



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.....: CTA25122901720

FCC ID.....: 2BU05-APOLLO2-12

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Date of issue: Feb. 02, 2026

Testing Laboratory Name: Shenzhen CTA Testing Technology Co., Ltd.

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

Applicant's name.....: CP Device Co., Ltd

Address.....: 5F, Bldg 15, Wisdomland Business Park, No.15 Gate 2nd Rd, Nanshan, Shenzhen City, Guangdong Province, China

Standard: 47CFR §1.1310

47CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

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Test item description: Vehicle Mount Computer

Trade Mark: CPDEVICE

Manufacturer: CP Device Co., Ltd

Model/Type reference: LC:TWO MAX

Listed Models: APOLLO2 12, APOLLO 12A, APOLLO 12PRO, APOLLO 12 GEN2, APOLLO 12

Rating: Input: DC 7-36V, 1600mA, Max 20W

Result: PASS

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TEST REPORT

Equipment under Test : Vehicle Mount Computer

Model /Type : LC:TWO MAX

Listed Models : APOLLO2 12, APOLLO 12A, APOLLO 12PRO, APOLLO 12 GEN2, APOLLO 12

Model difference : The PCB board, circuit, structure and internal of these models are the same, Only model number is different for these model.

Applicant : **CP Device Co., Ltd**

Address : 5F, Bldg 15,Wisdomland Business Park, No.15 Gate 2nd Rd, Nanshan, Shenzhen City, Guangdong Province, China

Manufacturer : **CP Device Co., Ltd**

Address : 5F, Bldg 15,Wisdomland Business Park, No.15 Gate 2nd Rd, Nanshan, Shenzhen City, Guangdong Province, China

Factory : **Shenzhen CP Device Technology Co., Ltd.**

Address : 5F, Building 15. 5F Building 16, Zhiheng Industrial Park, No.15 Guankou 2nd Road, Anle Community,Nantou Street, Nanshan District, Shenzhen, Guangdong, China

Test Result:	PASS
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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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1 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

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Dec. 29, 2025
Testing commenced on	:	Dec. 29, 2025
Testing concluded on	:	Feb. 02, 2026

2.2 Product Description

Product Name:	Vehicle Mount Computer
Model/Type reference:	LC:TWO MAX
Power supply:	Input: DC 7-36V, 1600mA, Max 20W
Hardware version:	CP022-MAIN-V1.3
Software version:	android11/debian11
Testing sample ID:	CTA251229017-1# (Engineer sample) CTA251229017-2# (Normal sample)
Bluetooth :	
Supported Type:	Bluetooth BR/EDR
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	PIFA Antenna
Antenna gain:	3.96dBi(Max.)
Bluetooth BLE	
Supported type:	Bluetooth low Energy
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2 MHz
Antenna type:	PIFA Antenna
Antenna gain:	3.96dBi(Max.)
2.4GWIFI :	
Supported type:	802.11b/802.11g/802.11n(HT20)/ 802.11n(HT40)
Modulation:	802.11b: DSSS 802.11g/802.11n(HT20): OFDM
Operation frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
Channel number:	802.11b/802.11g/802.11n(HT20): 11
Channel separation:	5MHz
Antenna type:	PIFA Antenna
Antenna gain:	3.96dBi(Max.)

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5GWIFI	
WLAN	Supported 802.11 a/n/ac
Modulation Type	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac20/40/80: OFDM(64QAM, 16QAM, QPSK, BPSK)
Operation frequency	IEEE 802.11a:5180-5240MHz,5260-5320MHz,5500-5700MHz,5745-5825MHz IEEE 802.11n HT20: 5180-5240MHz,5260-5320MHz,5500-5700MHz,5745-5825MHz IEEE 802.11n HT40: 5190-5230MHz,5270-5310MHz,5510-5670MHz,5755-5795MHz IEEE 802.11ac20: 5180-5240MHz,5260-5320MHz,5500-5700MHz,5745-5825MHz IEEE 802.11ac40: 5190-5230MHz,5270-5310MHz,5510-5670MHz,5755-5795MHz IEEE 802.11ac80:5210MHz,5290MHz,5530MHz, 5610MHz, 5775MHz
Channel number	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5190-5230MHz) 2 channels for 40MHz bandwidth(5270-5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 2 channels for 40MHz bandwidth(5755-5795MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 1 Channels for 80MHz bandwidth(5530MHz, 5610MHz) 1 channels for 80MHz bandwidth(5775MHz)
Antenna type:	PIFA Antenna
Antenna gain:	1.81dBi(Max.)

GSM	
Modulation Type	GMSK
Antenna Type	PIFA Antenna
GSM/EDGE/GPRS	Supported GPRS/EGPRS
GSM/GPRS Power Class	GSM850:Power Class 4/ PCS1900:Power Class 1
GSM/GPRS Operation Frequency	GSM850 :824.2MHz-848.8MHz/PCS1900:1850.2MHz-1909.8MHz
GPRS Operation Frequency Band	GPRS850/GPRS1900
GPRS Multislot Class	Multi-slot Class 12
Extreme temp. Tolerance	-30°C to +50°C
GPRS operation mode	Class B
Antenna Type:	PIFA Antenna
Antenna Gain:	-0.19dBi (max.) For GSM 850 2.43dBi (max.) For PCS 1900

WCDMA	
Operation Band:	FDD Band II & Band IV & Band V
Power Class:	Power Class 3
Modulation Type:	QPSK for WCDMA/HSUPA/HSDPA,16QAM for HSPA+
Release Version:	R8
Antenna type:	PIFA Antenna
Antenna gain:	WCDMA Band II, 2.43dBi WCDMA Band IV, 1.77dBi WCDMA Band V, -0.19dBi
LTE	

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Operation Band:	E-UTRA Band 2/4/5/7/12/13/25/26/38/41/66
Support Bandwidth:	Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz, Band 7: 5MHz, 10MHz, 15MHz, 20MHz, Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz, Band 13: 5MHz, 10MHz, Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz, Band 26-1: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz Band 26-2: 1.4MHz, 3MHz, 5MHz, 10MHz Band 38: 5MHz, 10MHz, 15MHz, 20MHz, Band 41: 5MHz, 10MHz, 15MHz, 20MHz Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
TX/RX Frequency Range:	E-UTRA Band 2 TX(1850 MHz -1910MHz),RX(1930 -1990MHz) E-UTRA Band 4 TX(1710 MHz -1755MHz),RX(2110-2155MHz) E-UTRA Band 5 TX(824 MHz -849MHz),RX(869-894MHz) E-UTRA Band 7 TX(2500 MHz -2570MHz), TX(2620 -2690MHz) E-UTRA Band 12 TX(699 MHz -716MHz), RX(729 -746MHz) E-UTRA Band 13 TX(777 MHz -787MHz), RX(746 -756MHz) E-UTRA Band 25 TX(1850 MHz -1915MHz), RX(1930 MHz -1995MHz) E-UTRA Band 26-1 TX(824 MHz -849MHz), RX(869 MHz -894MHz) E-UTRA Band 26-2 TX(814 MHz -824MHz), TX(859-869MHz) E-UTRA Band 38(2570 MHz -2620MHz) E-UTRA Band 41(2496 MHz -2690MHz) E-UTRA Band 66 TX(1710 MHz -1780MHz), RX(2110-2200 MHz)
Modulation Type:	QPSK, 16QAM
Release Version:	Release 9
Category:	Cat 4
Antenna Type:	PIFA Antenna
Antenna Gain:	2.43dBi for Band 2 1.77dBi for Band 4 -0.19dBi for Band 5 2.32dBi for Band 7 -3.08dBi for Band 12 -2.12dBi for Band 13 2.43dBi for Band 25 -0.19dBi for Band 26 2.32dBi for Band 38 2.32dBi for Band 41 1.77dBi for Band 66
Internal EUT markings of the customer:	10000003

2.3 Special Accessories

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

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

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2.4 Modifications

No modifications were implemented to meet testing criteria.

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, Bao'an 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.

ISED#: 27890 CAB identifier: CN0127

Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

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)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
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	/	±2%	(1)

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4 Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

F=frequency in MHz

*=Plane-wave equivalent power density

4.2 MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

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

4.3 Conducted Power Results

Type	Channel	Output power (dBm)
GFSK 1Mbps	00	5.24
	19	4.69
	39	2.87

Type	Channel	Output power (dBm)
GFSK	00	9.63
	39	9.16

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	78	8
π/4DQPSK	00	7.85
	39	7.33
	78	6.08
8DPSK	00	8.21
	39	7.71
	78	6.48

Type	Channel	Output power PK (dBm)
802.11b	01	14.35
	06	14.11
	11	13.71
802.11g	01	13.67
	06	13.63
	11	13.8
802.11n(HT20)	01	13.3
	06	13.56
	11	13.13

5.2GWIFI

Mode	Frequency (MHz)	Conducted Power (dBm)
802.11a	5180	10.49
802.11a	5200	9.84
802.11a	5240	9.36
802.11n20	5180	9.87
802.11n20	5200	9.27
802.11n20	5240	9.04
802.11n40	5190	10.22
802.11n40	5230	9.54
802.11ac20	5180	9.95
802.11ac20	5200	9.23
802.11ac20	5240	9.09
802.11ac40	5190	10.09
802.11ac40	5230	9.2
802.11ac80	5210	9.91

5.3GWIFI

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Mode	Frequency (MHz)	Conducted Power (dBm)
802.11a	5260	8.98
802.11a	5280	9.36
802.11a	5320	10
802.11n20	5260	8.71
802.11n20	5280	8.95
802.11n20	5320	9.63
802.11n40	5270	9.52
802.11n40	5310	10.16
802.11ac20	5260	8.7
802.11ac20	5280	8.97
802.11ac20	5320	9.75
802.11ac40	5270	9.43
802.11ac40	5310	10.12
802.11ac80	5290	9.64

5.5GWIFI

Mode	Frequency (MHz)	Total Conducted Power (dBm)
802.11a	5500	9.76
802.11a	5580	8.23
802.11a	5700	8.03
802.11n20	5500	9.37
802.11n20	5580	7.79
802.11n20	5700	7.7
802.11n40	5510	10.15
802.11n40	5550	9.31
802.11n40	5670	8.4
802.11ac20	5500	9.28
802.11ac20	5580	7.77
802.11ac20	5700	7.7
802.11ac40	5510	10
802.11ac40	5550	9.28
802.11ac40	5670	8.31
802.11ac80	5530	9.89
802.11ac80	5610	9.03

5.8GWIFI

Mode	Frequency (MHz)	Total Conducted Power (dBm)
802.11a	5745	9.79
802.11a	5785	10.08
802.11a	5825	10.81
802.11n20	5745	9.19
802.11n20	5785	9.65
802.11n20	5825	10.47
802.11n40	5755	10.11
802.11n40	5795	10.41
802.11ac20	5745	9.32
802.11ac20	5785	9.75
802.11ac20	5825	10.32
802.11ac40	5755	10.16
802.11ac40	5795	10.56
802.11ac80	5775	10.73

LTE	Max. Conducted Output Power (dBm)
GSM850	32.39
PCS1900	29.8
WCDMA B 2	23.7
WCDMA B 4	23.7
WCDMA B 5	23.64
Band 2	23.32
Band 4	23.38
Band 5	23.67
Band 7	22.62
Band 12	23.84
Band 13	24.09
Band 25	24.24
Band 26-1	23.34
Band 26-2	23.46
Band 38	22.86
Band 41	23.46
Band 66	23.46

4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
BLE	5.24	6.0 ± 1
BR/EDR	9.63	10.0 ± 1
2.4GWIFI	14.35	14.0 ± 1
Mode	Max. Aveage Conducted Output Power (dBm)	Max. tune-up
5.2GWIFI	10.49	10.0 ± 1
5.3GWIFI	10.16	10.0 ± 1

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5.5GWIFI	10.15	10.0±1
5.8GWIFI	10.81	10.0±1

LTE	Max. Conducted Output Power (dBm)	Target (dBm)	Tolerance ±(dB)
GSM850	32.39	31.5	1.0
PCS1900	29.8	29.0	1.0
WCDMA B 2	23.7	23.0	1.0
WCDMA B 4	23.7	23.0	1.0
WCDMA B 5	23.64	23.0	1.0
Band 2	23.32	23.0	1.0
Band 4	23.38	23.0	1.0
Band 5	23.67	23.0	1.0
Band 7	22.62	23.0	1.0
Band 12	23.84	23.0	1.0
Band 13	24.09	24.0	1.0
Band 25	24.24	24.0	1.0
Band 26-1	23.46	23.0	1.0
Band 26-2	23.34	23.0	1.0
Band 38	22.86	23.0	1.0
Band 41	23.46	23.0	1.0
Band 66	23.46	23.0	1.0

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, $r=20\text{cm}$, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE (Ratio) Limits
	dBm	mW					
BLE	7.0	5.0119	3.96	2.4889	0.0025	1.0000	0.0025
BR/EDR	11.0	12.5893	3.96	2.4889	0.0062	1.0000	0.0062
2.4GWIFI	15.0	31.6228	3.96	2.4889	0.0157	1.0000	0.0157
5.2GWIFI	11.0	12.5893	1.81	1.5171	0.0038	1.0000	0.0038
5.3GWIFI	11.0	12.5893	1.81	1.5171	0.0038	1.0000	0.0038
5.5GWIFI	11.0	12.5893	1.81	1.5171	0.0038	1.0000	0.0038
5.8GWIFI	11.0	12.5893	1.81	1.5171	0.0038	1.0000	0.0038
GSM850	32.50	1778.2794	-0.19	0.9572	0.3388	0.5493	0.6168
PCS1900	30.00	1000.0000	2.43	1.7498	0.3483	1.0000	0.3483
WCDMA B 2	24.00	251.1886	2.43	1.7498	0.0875	1.0000	0.0875
WCDMA B 4	24.00	251.1886	1.77	1.5031	0.0752	1.0000	0.0752
WCDMA B 5	24.00	251.1886	-0.19	0.9572	0.0479	0.5507	0.0870
Band 2	24.00	251.1886	2.43	1.7498	0.0875	1.0000	0.0875
Band 4	24.00	251.1886	1.77	1.5031	0.0752	1.0000	0.0752

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Band 5	24.00	251.1886	-0.19	0.9572	0.0479	0.5493	0.0872
Band 7	24.00	251.1886	2.32	1.7061	0.0853	1.0000	0.0853
Band 12	24.00	251.1886	-3.08	0.4920	0.0246	0.4660	0.0528
Band 13	25.00	316.2278	-2.12	0.6138	0.0386	0.5180	0.0745
Band 25	25.00	316.2278	2.43	1.7498	0.1101	1.0000	0.1101
Band 26-1	24.00	251.1886	-0.19	0.9572	0.0479	0.5427	0.0883
Band 26-2	24.00	251.1886	-0.19	0.9572	0.0479	0.5427	0.0883
Band 38	24.00	251.1886	2.32	1.7061	0.0853	1.0000	0.0853
Band 41	24.00	251.1886	2.32	1.7061	0.0853	1.0000	0.0853
Band 66	24.00	251.1886	1.77	1.5031	0.0752	1.0000	0.0752

Remark:

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

4.6 Simultaneous Transmission for MPE Result

2.4GWIFI MPE (Ratio)	LTE MPE (Ratio)	simultaneous MPE (Ratio)	MPE Limits (Ratio)
0.0157	0.6168	0.6325	1.0000

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

***** End of Report *****