



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

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Date of issue: Sep. 30, 2025

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: Zhangzhou 3rtablet Technology Co.,Ltd

Address: No.26 Fu Qi North Road, Long Wen District Zhang Zhou, Fu Jian China

Standard: 47CFR §1.1310

47CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

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Test item description: In-Vehicle Display Terminal

Trade Mark.....: N/A

Manufacturer.....: Zhangzhou 3rtablet Technology Co.,Ltd

Model/Type reference: ST-7

Listed Models.....: N/A

Rating.....: Input: DC 8-36V

Result.....: PASS

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TEST REPORT

Equipment under Test : In-Vehicle Display Terminal

Model /Type : ST-7

Listed Models : N/A

Applicant : **Zhangzhou 3rtablet Technology Co.,Ltd**

Address : No.26 Fu Qi North Road, Long Wen District Zhang Zhou, Fu Jian
China

Manufacturer : **Zhangzhou 3rtablet Technology Co.,Ltd**

Address : No.26 Fu Qi North Road, Long Wen District Zhang Zhou, Fu Jian
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	:	Sep. 08, 2025
Testing commenced on	:	Sep. 08, 2025
Testing concluded on	:	Sep. 30, 2025

2.2 Product Description

EUT : In-Vehicle Display Terminal

Test Model : ST-7

Ratings : Input: DC 8-36V

Hardware Version : ST-7_V04

Software Version : V1.4.8

Bluetooth :

Frequency Range : 2402MHz~2480MHz

Channel Number : 79 channels for Bluetooth V5.0 (DSS)
40 channels for Bluetooth V5.0 (DTS)

Channel Spacing : 1MHz for Bluetooth V5.0 (DSS)
2MHz for Bluetooth V5.0 (DTS)

Modulation Type : GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (DSS)
GFSK for Bluetooth V5.0 (DTS)

Bluetooth Version : V5.0

Antenna Description : PIFA Antenna, 0.98dBi(Max.)

WIFI(2.4G Band) :

Frequency Range : 2412MHz~2462MHz

Channel Number : 11 Channels for 20MHz bandwidth (2412~2462MHz)
7 Channels for 40MHz bandwidth (2422~2452MHz)

Channel Spacing : 5MHz

Modulation Type : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)
IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Antenna Description : PIFA Antenna, 0.98dBi(Max.)

WIFI(5.2G Band) :

Frequency Range : 5180MHz~5240MHz

Channel Number : 4 Channels for 20MHz bandwidth(5180MHz~5240MHz)
2 channels for 40MHz bandwidth(5190MHz~5230MHz)
1 channels for 80MHz bandwidth(5210MHz)

Modulation Type : IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : PIFA Antenna, 1.99dBi(Max.)

WIFI(5.8G Band) :

Frequency Range : 5745MHz~5825MHz

Channel Number : 5 channels for 20MHz bandwidth(5745MHz~5825MHz)
2 channels for 40MHz bandwidth(5755MHz~5795MHz)

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1 channels for 80MHz bandwidth(5775MHz)

Modulation Type : IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description : PIFA Antenna, 1.99dBi(Max.)

LTE :

Support Band : ☒ E-UTRA Band 2(U.S.-Band)
☒ E-UTRA Band 4(U.S.-Band)
☒ E-UTRA Band 5(U.S.-Band)
☒ E-UTRA Band 7(U.S.-Band)
☒ E-UTRA Band 12(U.S.-Band)
☒ E-UTRA Band 13(U.S.-Band)
☒ E-UTRA Band 14(U.S.-Band)
☒ E-UTRA Band 17(U.S.-Band)
☒ E-UTRA Band 25(U.S.-Band)
☒ E-UTRA Band 26(U.S.-Band)
☒ E-UTRA Band 41(U.S.-Band)
☒ E-UTRA Band 66(U.S.-Band)
☒ E-UTRA Band 71(U.S.-Band)

LTE Release Version : R8

Type Of Modulation : QPSK/16QAM

Antenna Description : PIFA Antenna
3.65dBi (max.) For E-UTRA Band 2
3.65dBi (max.) For E-UTRA Band 4
0.42dBi (max.) For E-UTRA Band 5
2.74dBi (max.) For E-UTRA Band 7
-2.20dBi (max.) For E-UTRA Band 12
-2.11dBi (max.) For E-UTRA Band 13
-2.11dBi (max.) For E-UTRA Band 14
-2.21dBi (max.) For E-UTRA Band 17
3.65dBi (max.) For E-UTRA Band 25
0.42dBi (max.) For E-UTRA Band 26
2.74dBi (max.) For E-UTRA Band 41
3.65dBi (max.) For E-UTRA Band 66
-2.21dBi (max.) For E-UTRA Band 71

Power Class : Class 3

NFC :

Operating Frequency : 13.56MHz

Modulation Type : ASK

Antenna Description : Internal Antenna, 0dBi(Max.)

GPS function : Support and only RX

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

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
/	/	/	/	/	/

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 and Manufacturing Tolerance

[BT]

Mode	Channel	Frequency (MHz)	Max Peak Conducted Output Power (dBm)	ANT Max. Tune Up Power (dBm)
GFSK	0	2402	-1.27	-1.0±1.0
	39	2441	1.19	1.0±1.0
	78	2480	0.43	0±1.0
$\pi/4$ DQPSK	0	2402	0.5	0±1.0
	39	2441	0.75	0±1.0
	78	2480	-0.22	0±1.0
8DPSK	0	2402	0.87	0±1.0
	19	2441	1.16	1.0±1.0
	39	2480	0.12	0±1.0

[BT LE]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)	ANT Max. Tune Up Power (dBm)
BLE 1M	0	2402	1.21	1.0±1.0
	19	2440	0.51	0±1.0
	39	2480	-0.4	0±1.0
BLE 2M	0	2402	1.07	1.0±1.0
	19	2440	0.29	0±1.0
	39	2480	-0.57	0±1.0

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Max Peak Conducted Output Power (dBm)	ANT Max. Tune Up Power (dBm)
IEEE 802.11b	1	2412	14.9	14.0±1.0
	6	2437	14.04	14.0±1.0
	11	2462	14.45	14.0±1.0
IEEE 802.11g	1	2412	14.22	14.0±1.0
	6	2437	14.55	14.0±1.0
	11	2462	14.87	14.0±1.0
IEEE 802.11n HT20	1	2412	13.7	13.0±1.0
	6	2437	13.71	13.0±1.0
	11	2462	14.09	13.0±1.0
IEEE 802.11n HT40	3	2422	13.26	13.0±1.0
	6	2437	13.05	13.0±1.0
	9	2452	12.94	12.0±1.0

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[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)	ANT Max. Tune Up Power (dBm)
11A	36	5180	13.6	13.0±1.0
	40	5200	13.47	13.0±1.0
	48	5240	12.7	12.0±1.0
11N20 SISO	36	5180	11.96	11.0±1.0
	40	5200	11.72	11.0±1.0
	48	5240	12.04	12.0±1.0
11N40 SISO	38	5190	11.77	11.0±1.0
	46	5230	11.15	11.0±1.0
11AC20 SISO	36	5180	12.01	12.0±1.0
	40	5200	11.73	11.0±1.0
	48	5240	11.08	11.0±1.0
11AC40 SISO	38	5190	11.75	11.0±1.0
	46	5230	11.12	11.0±1.0
11AC80 SISO	42	5210	11.2	11.0±1.0

[5.8G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)	ANT Max. Tune Up Power (dBm)
11A	149	5745	13.06	13.0±1.0
	157	5785	12.33	12.0±1.0
	165	5825	12.41	12.0±1.0
11N20 SISO	149	5745	11.43	11.0±1.0
	157	5785	10.75	10.0±1.0
	165	5825	11.79	11.0±1.0
11N40 SISO	151	5755	19.9	19.0±1.0
	159	5795	10.39	10.0±1.0
11AC20 SISO	149	5745	11.44	11.0±1.0
	157	5785	11.74	11.0±1.0
	165	5825	11.8	11.0±1.0
11AC40 SISO	151	5755	11.08	11.0±1.0
	159	5795	10.38	10.0±1.0
11AC80 SISO	155	5775	11.36	11.0±1.0

[LTE Max Average Power]				
Test Mode		Channel	Max Average Power (dBm)	ANT Max. Tune Up Power (dBm)
LTE	Band 2	LCH	23.7	23.0±1.0
		MCH	23.1	23.0±1.0
		HCH	23.74	23.0±1.0
	Band 4	LCH	22.59	22.0±1.0
		MCH	22.97	22.0±1.0
		HCH	23.2	23.0±1.0
	Band 5	LCH	23.42	23.0±1.0
		MCH	24.12	24.0±1.0
		HCH	23.79	23.0±1.0
	Band 7	LCH	22.47	22.0±1.0
		MCH	22.78	22.0±1.0
		HCH	22.81	22.0±1.0
	Band 12	LCH	23.7	23.0±1.0
		MCH	23.35	23.0±1.0
		HCH	23.92	23.0±1.0
	Band 13	LCH	23.15	23.0±1.0
		MCH	23.43	23.0±1.0
		HCH	23.24	23.0±1.0
	Band 14	LCH	23.74	23.0±1.0
		MCH	23.87	23.0±1.0
		HCH	23.61	23.0±1.0
	Band 17	LCH	23.38	23.0±1.0
		MCH	23.56	23.0±1.0
		HCH	23.47	23.0±1.0
	Band 25	LCH	23.22	23.0±1.0
		MCH	22.63	22.0±1.0
		HCH	23.11	23.0±1.0
	Band 26-A	LCH	23.24	23.0±1.0
		MCH	23.45	23.0±1.0
		HCH	23.4	23.0±1.0
	Band 26-B	LCH	23.94	23.0±1.0
		MCH	24.05	24.0±1.0
		HCH	24.09	24.0±1.0
	Band 41	LCH	22.69	22.0±1.0
		MCH	22.86	22.0±1.0
		HCH	23.13	23.0±1.0
	Band 66	LCH	22.75	22.0±1.0
		MCH	22.79	22.0±1.0
		HCH	22.77	22.0±1.0
	Band 71	LCH	23.81	23.0±1.0
		MCH	23.67	23.0±1.0
		HCH	23.35	23.0±1.0

NFC

13.56MHz: 70.69dBuV/m@ 3m

@20cm=@3m+40*log(3/0.2)= 117.734 dBuV/m

For 13.56MHz: 147.134dBuV/m=0.77V/m< 60.77 V/m.

For 13.56MHz Ratio:0.77/60.77=0.0127

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4.4 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.

[BT]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios
	dBm	mW					
GFSK	2.0	1.5849	0.98	1.2531	0.0004	1.0000	0.0004
$\pi/4$ -DQPSK	1.0	1.2589	0.98	1.2531	0.0003	1.0000	0.0003
8-DPSK	2.0	1.5849	0.98	1.2531	0.0004	1.0000	0.0004

[BLE 1M]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios
	dBm	mW					
GFSK	2.0	1.5849	0.98	1.2531	0.0004	1.0000	0.0004

[BLE 2M]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios
	dBm	mW					
GFSK	2.0	1.5849	0.98	1.2531	0.0004	1.0000	0.0004

[2.4G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios
	dBm	mW					
IEEE 802.11b	15.0	31.6228	0.98	1.2531	0.0079	1.0000	0.0079
IEEE 802.11g	15.0	31.6228	0.98	1.2531	0.0079	1.0000	0.0079
IEEE 802.11n HT20	14.0	25.1189	0.98	1.2531	0.0063	1.0000	0.0063
IEEE 802.11n HT40	14.0	25.1189	0.98	1.2531	0.0063	1.0000	0.0063

[5.2G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios
	dBm	mW					
IEEE 802.11a	14.0	25.1189	1.99	1.5812	0.0079	1.0000	0.0079
IEEE 802.11n HT20	13.0	19.9526	1.99	1.5812	0.0063	1.0000	0.0063
IEEE 802.11n HT40	12.0	15.8489	1.99	1.5812	0.0050	1.0000	0.0050
IEEE 802.11ac VHT20	13.0	19.9526	1.99	1.5812	0.0063	1.0000	0.0063
IEEE 802.11ac VHT40	12.0	15.8489	1.99	1.5812	0.0050	1.0000	0.0050
IEEE 802.11ac VHT80	12.0	15.8489	1.99	1.5812	0.0050	1.0000	0.0050

[5.8G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios
	dBm	mW					
IEEE 802.11a	14.0	25.1189	1.99	1.5812	0.0079	1.0000	0.0079
IEEE 802.11n HT20	12.0	15.8489	1.99	1.5812	0.0050	1.0000	0.0050
IEEE 802.11n HT40	20.0	100.0000	1.99	1.5812	0.0315	1.0000	0.0315
IEEE 802.11ac VHT20	12.0	15.8489	1.99	1.5812	0.0050	1.0000	0.0050
IEEE 802.11ac VHT40	12.0	15.8489	1.99	1.5812	0.0050	1.0000	0.0050
IEEE 802.11ac VHT80	12.0	15.8489	1.99	1.5812	0.0050	1.0000	0.0050

[LTE]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios
	dBm	mW					
Band 2	24.0	251.1886	3.65	2.3174	0.1158	1.0000	0.1158
Band 4	24.0	251.1886	3.65	2.3174	0.1158	1.0000	0.1158
Band 5	25.0	316.2278	0.42	1.1015	0.0693	0.5493	0.1262
Band 7	23.0	199.5262	2.74	1.8793	0.0746	1.0000	0.0746
Band 12	24.0	251.1886	-2.20	0.6026	0.0301	0.4660	0.0646
Band 13	24.0	251.1886	-2.11	0.6152	0.0307	0.4973	0.0617
Band 14	24.0	251.1886	-2.11	0.6152	0.0307	0.5053	0.0608
Band 17	24.0	251.1886	-2.21	0.6012	0.0300	0.4693	0.0639
Band 25	24.0	251.1886	3.65	2.3174	0.1158	0.5427	0.2134
Band 26-A	24.0	251.1886	0.42	1.1015	0.0550	0.5427	0.1013
Band 26-B	25.0	316.2278	0.42	1.1015	0.0693	0.5493	0.1262
Band 41	24.0	251.1886	2.74	1.8793	0.0939	1.0000	0.0939
Band 66	23.0	199.5262	3.65	2.3174	0.0920	1.0000	0.0920
Band 71	24.0	251.1886	-2.21	0.6012	0.0300	0.4113	0.0729

Remark:

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

4.5 Simultaneous Transmission for MPE Result

WIFI Antenna Max MPE ratios	LTE Antenna Max MPE ratios	NFC Antenna Max MPE ratios	Σ MPE ratios	Limit	Results
0.0315	0.2134	0.0127	0.2576	1.0	Pass

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 *****

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