



Shenzhen HTT Technology Co., Ltd.

RF Exposure MPE

Report Reference No.....: **HTT202506681F05**
 FCC ID.....: **2BCFX-HC-DX56123**

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Date of issue: Jul. 11, 2025

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Applicant's name.....: Shenzhen Daxun Co.,LTD

Address.....: Room 202A, Building A, Zihui Innovation Center, Qianjin 2nd
 Road, Xixiang Subdistrict, Bao'an District, Shenzhen, Guangdong
 Province, China

Standard.....: **47CFR §1.1310**
47CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06

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Test item description: Car Multimedia LCD Screen

Manufacturer: Shenzhen Daxun Co.,LTD

Trade Mark: N/A

Model/Type reference: HC-DX56123

Rating: DC 12V

Result: **PASS**

TEST REPORT

Equipment under Test : Car Multimedia LCD Screen

Model /Type : HC-DX56123

Listed Models : CSD0468-SF

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

Applicant : **Shenzhen Daxun Co.,LTD**

Address : Room 202A, Building A, Zihui Innovation Center, Qianjin 2nd Road, Xixiang Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Manufacturer : **Shenzhen Daxun Co.,LTD**

Address : Room 202A, Building A, Zihui Innovation Center, Qianjin 2nd Road, Xixiang Subdistrict, Bao'an District, Shenzhen, Guangdong Province, 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. 11, 2024
Testing commenced on	:	Dec. 11, 2024
Testing concluded on	:	Jul. 11, 2025

2.2 Product Description

Product Name:	Car Multimedia LCD Screen			
Model/Type reference:	HC-DX56123			
Test samples ID:	HTT202506681F05-1# (Engineer sample) HTT202506681F05-2# (Normal sample)			
Power supply:	DC 12V			
BT				
Operation Frequency:	2402MHz~2480MHz			
Channel numbers:	79			
Channel separation:	1MHz			
Modulation type:	GFSK, $\pi/4$ -DQPSK, 8-DPSK			
Antenna Type:	Wire Antenna			
Antenna Gain:	0.76 dBi			
BLE				
Operation frequency	2402~2480 MHz			
Number of Channels	40			
Modulation Type	GFSK			
Channel separation	2MHz			
Antenna Type:	Wire Antenna			
Antenna Gain:	0.76 dBi			
WIFI 2.4G				
Channel numbers:	802.11b /802.11g /802.11n(HT20): 11 802.11n(HT40) :7			
Channel separation:	5MHz			
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)			
Antenna Type:	Wire Antenna			
Antenna gain:	0.76 dBi			
WIFI 5G				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n 802.11ac	802.11n 802.11ac	802.11ac	N/A
Operation	5745MHz-5825MHz	5755MHz-5795MHz	5775MHz	N/A

frequency:				
Modulation:	802.11a/802.11n/ 802.11ac:OFDM	802.11n/802.11ac: OFDM	802.11ac:OFD M	N/A
Channel number:	5	2	1	N/A
Channel separation:	20MHz	40MHz	80MHz	N/A
Antenna Type:	Wire Antenna			
Antenna gain:	3.80 dBi			

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 HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT 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.: 6435.01

Shenzhen HTT 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 HTT 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 HTT Technology Co.,Ltd. :

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.12 dB	(1)
Radiated Emission	30~1000MHz	4.37 dB	(1)
Radiated Emission	1~18GHz	5.40 dB	(1)
Radiated Emission	18-40GHz	5.45 dB	(1)
Conducted Disturbance	0.15~30MHz	2.68 dB	(1)
Spectrum bandwidth	/	1.2%	(1)
Output Peak power	30MHz~18GHz	0.57dB	(1)
Time	/	± 10%	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

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

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	
			ANT1	Limit
1M	SISO	2402	-3.39	<=30
		2440	-6.9	<=30
		2480	-7.03	<=30

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)	
				ANT1	Limit
GFSK	SISO	2402	DH5	1.93	<=30
		2441	DH5	-1.56	<=30
		2480	DH5	-1.94	<=30
Pi/4DQPSK	SISO	2402	2DH5	4.64	<=20.97
		2441	2DH5	2.05	<=20.97
		2480	2DH5	2.82	<=20.97
8DPSK	SISO	2402	3DH5	4.62	<=20.97
		2441	3DH5	2.01	<=20.97
		2480	3DH5	2.86	<=20.97

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	
			ANT1	Limit
802.11b	SISO	2412	10.37	<=30
		2437	9.16	<=30
		2462	7.29	<=30
802.11g	SISO	2412	12.97	<=30
		2437	11.75	<=30
		2462	8.48	<=30
802.11n (HT20)	SISO	2412	12.91	<=30
		2437	11.72	<=30
		2462	8.44	<=30
802.11n (HT40)	SISO	2422	12.52	<=30
		2437	10.73	<=30
		2452	9.44	<=30

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	
			ANT1	Limit
802.11a	SISO	5745	7.58	<=30
		5785	7.04	<=30
		5825	7.47	<=30
802.11n (HT20)	SISO	5745	7.65	<=30
		5785	7.72	<=30
		5825	7.11	<=30
802.11n (HT40)	SISO	5755	7.8	<=30
		5795	7.24	<=30
802.11ac (VHT20)	SISO	5745	7.52	<=30
		5785	7.8	<=30
		5825	7.87	<=30
802.11ac (VHT40)	SISO	5755	7.44	<=30
		5795	7.06	<=30
802.11ac (VHT80)	SISO	5775	7.28	<=30

4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
BT	4.64	5.0±1
BLE	-3.39	-3.0±1
2.4GWIFI	12.97	13.0±1
Mode	Max. Average Conducted Output Power (dBm)	Max. tune-up
5.8GWIFI	7.87	7.0±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, $r = 20\text{cm}$, 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)
	dBm	mW				
BT	6.0	3.9811	0.76	1.1912	0.0009	1.0000
BLE	-2.0	0.6310	0.76	1.1912	0.0001	1.0000
2.4GWIFI	14.0	25.1189	0.76	1.1912	0.0060	1.0000
5.8GWIFI	8.0	6.3096	3.8	2.3988	0.0030	1.0000

Remark:

1. Output power (Peak) including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.
3. BT and WLAN can be active at the same time, but only with interleaving of packages switched on board level. That means that they cannot transmit at the same time.

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

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