

RF Exposure Evaluation Report

Product : Touchscreen Computer
Trade mark : AVD
Model/Type reference : See Section 2.2
Serial Number : N/A
Report Number : EED32R82484604
FCC ID : 2BU4D-AVD AIOT2601
Date of Issue : Mar. 13, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

SHENZHEN AV-DISPLAY CO., LTD.
No.39, JinYuan Road, He'ao Yuanshan Street, LongGang,
Shenzhen, Guangdong, China

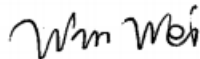
Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Park, Zone 70, Bao'an District,
Shenzhen, Guangdong, China

TEL: +86-755-3368 3668

FAX: +86-755-3368 3385

Compiled by:



Reviewed by:



Win Wei

Keven Tan

Approved by:



Date:

Mar. 13, 2026

Aaron Ma

Check No.:9444161225



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2 General Information

2.1 Client Information

Applicant:	SHENZHEN AV-DISPLAY CO., LTD.
Address of Applicant:	No.39, JinYuan Road, He'ao Yuanshan Street, LongGang, Shenzhen, Guangdong, China
Manufacturer:	SHENZHEN AV-DISPLAY CO., LTD.
Address of Manufacturer:	No.39, JinYuan Road, He'ao Yuanshan Street, LongGang, Shenzhen, Guangdong, China
Factory:	SHENZHEN AV-DISPLAY CO., LTD.
Address of Factory:	No.39, JinYuan Road, He'ao Yuanshan Street, LongGang, Shenzhen, Guangdong, China

2.2 General Description of EUT

Product Name:	Touchscreen Computer
Model No.:	EPC-R388320CS-A1-S, EPC-R388070CS-A0-S, EPC-R388101CS-A1-S, EPC-R388156CS-A0-S, EPC-R388156CS-A3-S, EPC-R388215CS-A1-S, EPC-R388215CS-A2-S, EPC-R388320CS-A1-S, EPC-N8MP07OCS-A0-S, EPC-N8MP101CS-A0-S, EPC-N8MP150CS-A0-S, EPC-N8MP156CS-A0-S, EPC-N8MP215CS-A0-S, EPC-N8MP320CS-A0-S
Test Model No.:	EPC-R388320CS-A1-S
Trade mark:	AVD

2.3 Product Specification subjective to this standard

Frequency Range:	BT/BLE: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Modulation Type:	BT:GFSK, $\pi/4$ DQPSK, 8DPSK BLE: GFSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM,QPSK, BPSK)	
Test Power Grade:	Default	
Test Software of EUT:	APK RF Test Tool	
Antenna Type:	Rod antenna	
Antenna Gain:	4.7dBi	
Power Supply:	Adapter:	Model: FJ-GN213524005000 Input: AC 100V-240V 50-60Hz 2.5A Output: DC 24.0V 5A
Sample Received Date:	Dec. 17, 2025	
Sample tested Date:	Dec. 17, 2025 to Feb. 11, 2026	
Remark:	Model No.: EPC-R388320CS-A1-S, EPC-R388070CS-A0-S, EPC-R388101CS-A1-S, EPC-R388156CS-A0-S, EPC-R388156CS-A3-S, EPC-R388215CS-A1-S, EPC-R388215CS-A2-S, EPC-R388320CS-A1-S, EPC-N8MP07OCS-A0-S, EPC-N8MP101CS-A0-S, EPC-N8MP150CS-A0-S, EPC-N8MP156CS-A0-S, EPC-N8MP215CS-A0-S, EPC-N8MP320CS-A0-S	

Only the model EPC-R388320CS-A1-S was tested.

All model EPC-R388070CS-A0-S, EPC-R388101CS-A1-S, EPC-R388156CS-A0-SEPC-R388156CS-A3-S, EPC-R388215CS-A1-S, EPC-R388215CS-A2-SEPC-R388320CS-A1-S, EPC-N8MP07OCS-A0-S, EPC-N8MP101CS-A0-S, EPC-N8MP150CS-A0-S, EPC-N8MP156CS-A0-S, EPC-N8MP215CS-A0-SEPC-N8MP320CS-A0-S have same electrical, PCBA, only the model names backlight driver board and Main Control IC are different for marketing requirements.

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
BT	20	5.70	4.7	8.25	6.683	3060.00	0.00218	Pass
BLE	20	7.85	4.7	10.4	10.965	3060.00	0.00358	Pass
2.4G Wi-Fi	20	11.25	4.7	13.8	23.988	3060.00	0.00784	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP = EIRP - 2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32R82484601, EED32R82484602, EED32R82484603, only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi)=0.00358+0.00784=0.01142 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***