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RF Exposure Evaluation Report

Report No.: CQASZ20250200348E-03

Applicant: Shenzhen Chengyisheng Electronics Co., Ltd

Address of Applicant: 1901, Block A, Building 1, Anhongji Xingyao Plaza, No. 32 Huaxing Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen

Equipment Under Test (EUT):

EUT Name: WIRELESS SMART PORTABLE MONITOR

Model No.: D156, D185, D210, 156UC, 185UC, ASM-20

Test Model No.: D156, D185, D210

Brand Name: N/A

FCC ID: 2BM35-V1

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310

447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2025-02-25

Date of Test: 2025-02-25 to 2025-03-24

Date of Issue: 2025-5-20

Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By: lewis zhou

(Lewis Zhou)

Timo Lei

Reviewed By: Timo Lei

(Timo Lei)

Approved By: Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250200348E-03	Rev.01	Initial report	2025-5-20

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Chengyisheng Electronics Co., Ltd
Address of Applicant:	1901, Block A, Building 1, Anhongji Xingyao Plaza, No. 32 Huaxing Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
Manufacturer:	Shenzhen Chengyisheng Electronics Co., Ltd
Address of Manufacturer:	1901, Block A, Building 1, Anhongji Xingyao Plaza, No. 32 Huaxing Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
Factory:	Huizhou Chengyisheng Electronics Co., Ltd
Address of Factory:	5th Floor, Building 19 and 6th Floor, Buildings 19-20, No.8 Renluoliu Road, Shuikou Street, Huicheng District, Huizhou City 516055

3.2 General Description of EUT

Product Name:	WIRELESS SMART PORTABLE MONITOR
Model No.:	D156, D185, D210, 156UC, 185UC, ASM-20
Test Model No.:	D156, D185, D210
Trade Mark:	N/A
Software Version:	HC16D3000V20-2502270834
Hardware Version:	CYS-WD-2K-LVDS-V1.11
EUT Power Supply:	Power supply DC12V form adapter

3.3 General Description of 2.4G WIFI Classic

Operation Frequency:	2412MHz~2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable
Antenna Type:	FPC antenna
Antenna Gain:	0.49dBi

3.4 General Description of 5G WIFI Classic

Operation Frequency:	IEEE 802.11a/n(20M): 5150MHz ~5250 MHz IEEE802.11n(40M): 5150MHz ~5250 MHz IEEE 802.11a/n(20M): 5250MHz ~5350 MHz IEEE802.11n(40M): 5250MHz ~5350 MHz IEEE 802.11a/n(20M): 5470MHz ~5725 MHz IEEE802.11n(40M): 5470MHz ~5725 MHz IEEE 802.11a/n(20M): 5725MHz ~5850 MHz IEEE802.11n(40M): 5725MHz ~5850 MHz
Type of Modulation:	OFDM
Channel Separation:	5MHz
Operation Frequency:	IEEE 802.11a/n(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11a/n(20M): 5250MHz ~5350MHz/ 4 channel IEEE 802.11n(40M): 5250MHz ~5350MHz/ 2 channel IEEE 802.11a/n(20M): 5470MHz ~5725MHz/ 8 channel IEEE 802.11n(40M): 5470MHz ~5725MHz/ 3 channel IEEE 802.11a/n(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n(40M): 5725MHz ~5850MHz/ 2 channel
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable
Antenna Type:	FPC antenna
Antenna Gain:	2.69dBi

Note:



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The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

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

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole).

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure**1) For 2.4G WIFI Classic****Measurement Data**

Test channel	11B mode				Maximum tune-up Power (dBm) (mW)	
	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	13.5±1		
	15.52	13.37				
Highest(2462MHz)				13.5±1	14.5 28.18	

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250200348E-01 for EUT test Max Conducted AV Output Power value.

2) EUT's module is more than 20cm away from the human body.

2) For 5G WIFI Classic**Measurement Data**

11A mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Highest(5320MHz)	14.37	12.22	12.5±1	13.5	22.39

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250200348E-02 for EUT test Max Conducted AV Output Power value.
2) EUT's module is more than 20cm away from the human body.

*** END OF REPORT ***