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RF Exposure Evaluation Report

Report No.: CQASZ20250801864E-03
Applicant: Shen Zhen laikeweier Technology Co.,Ltd.
Address of Applicant: 303. A2, HC Park,159 Hangcheng Avenue, Sanwei community. Hangcheng street,Bao'an District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Wireless Carplay/Android Auto Adapter
Model No.: C0051,C0053, C0051-H01, C0051-H02, C0051-H30, C0051-H31,
C0051-H32, C0051-H33 C0053-H01, C0053-H02, C0053-H30, C0053-H31,
C0053-H32, C0053-H33
Test Model No.: C0051,C0053
Brand Name: N/A
FCC ID: 2BLLO-C0051
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: 2025-08-12
Date of Test: 2025-08-12 to 2025-08-29
Date of Issue: 2025-9-2
Test Result: **PASS***

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

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250801864E-03	Rev.01	Initial report	2025-9-2

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2 General Information

2.1 Client Information

Applicant:	Shen Zhen laikeweier Technology Co,Ltd.
Address of Applicant:	303. A2, HC Park,159 Hangcheng Avenue, Sanwei community. Hangcheng street,Bao'an District, Shenzhen, China
Manufacturer:	Shen Zhen laikeweier Technology Co,Ltd.
Address of Manufacturer:	303. A2, HC Park,159 Hangcheng Avenue, Sanwei community. Hangcheng street,Bao'an District, Shenzhen, China
Factory:	Shen Zhen laikeweier Technology Co,Ltd.
Address of Factory:	303. A2, HC Park,159 Hangcheng Avenue, Sanwei community. Hangcheng street,Bao'an District, Shenzhen, China

2.2 General Description of EUT

Product Name:	Wireless Carplay/Android Auto Adapter
Model No.:	C0051,C0053, C0051-H01, C0051-H02, C0051-H30, C0051-H31, C0051-H32, C0051-H33 C0053-H01, C0053-H02, C0053-H30, C0053- H31, C0053-H32, C0053-H33
Test Model No.:	C0051,C0053
Trade Mark:	N/A
Software Version:	20250630126
Hardware Version:	V1.1
EUT Power Supply:	Power supply DC5V

2.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 4.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK,
Number of Channel:	40
Transfer Rate:	1Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable
Antenna Type:	Chip antenna
Antenna Gain:	1.75dBi

2.4 General Description of 5G WIFI Classic

Operation Frequency:	5150MHz ~5250 MHz
Type of Modulation:	OFDM
Number of Channel:	IEEE 802.11a/n(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n(40M): 5150MHz ~5250MHz/ 2 channel
Channel Separation:	5MHz
Operation Frequency:	IEEE 802.11a/n(20M): 5150MHz ~5250 MHz IEEE802.11n(40M): 5150MHz ~5250 MHz
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable
Antenna Type:	Chip antenna
Antenna Gain:	1.86dBi

Note:

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

3 MPE Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 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.

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

1) For BLE

Measurement Data

GFSK mode				
Test channel	Max.Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)
2402MHz	4.45	1.75	6.20	4.05
Tune-up				
Tune up tolerance (dBm)		Maximum tune-up Power		
		(dBm)	(mW)	
4.05±1		5.05	3.20	

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250801864E-01 for EUT test Max Conducted Peak Output Power value.
2) EUT's module is more than 20cm away from the human body.

3) For 5G WIFI Classic

Measurement Data

11A mode				
Test channel	Max.Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)
5180MHz	13.36	1.86	15.22	13.07
Tune-up				
Tune up tolerance (dBm)		Maximum tune-up Power		
		(dBm)	(mW)	
13.07±1		14.07	25.53	

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250801864E-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 ***