

Report No.: GZCR211002120304 EMC-TRF-03 Rev 1.0

Page: 1 of 11 FCC ID: 2ATPV-KDOP

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2110021203AT

Applicant: KanDao Technology Co., Ltd.

Address of Applicant: 201 Sino-Steel building, Maqueling Industrial District, Maling Area, Yuehai

Street, Nanshan, Shenzhen, China

Manufacturer: KanDao Technology Co., Ltd.

Address of Manufacturer: 201 Sino-Steel building, Maqueling Industrial District, Maling Area, Yuehai

Street, Nanshan, Shenzhen, China

Factory: SKY LIGHT ELECTRONIC (SHENZHEN) LIMITED

Address of Factory: 1F-2F OF NO.9, 1F-5F OF NO.8, ANTUOSHAN HIGH-TECH. INDUSTRIAL

PARK, SHAER COMMUNITY, SHAJING STREET, BAO'AN DISTRICT,

SHENZHEN CITY, GUANGDONG PROVINCE

Equipment Under Test (EUT):

EUT Name: Kandao Obsidian Pro

Model No.: OSP0415 **Trade Mark:** KanDao

47 CFR Part 1.1307 Standard(s):

47 CFR Part 1.1310

47 CFR Part 2.1091

2021-10-18 **Date of Receipt:**

2021-10-18 to 2021-10-28 **Date of Test:**

2021-10-29 Date of Issue:

Pass* Test Result:

Kobe Jian **EMC Laboratory Manager**



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record							
Version Chapter Date Modifier Remark							
01		2021-10-29		Original			

Authorized for issue by		
Tested By	Cof Vlu	
	Curry Wu /Project Engineer	
Reviewed By	Riday Liu	
	Ricky Liu/Reviewer	



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2 **Test Summary**

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 20V powered by an adapter.
	Adapter Model: GST220A20
	Input: AC 100-240V, 50/60Hz, 4.0A
	Output: DC 20V 11A.
For BLE:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	5.0dBi
For 2.4G WIFI:	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT1: 5.0dBi; ANT2: 5.0dBi;
For 5G WIFI:	
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK);
	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);
	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac(HT20): 20MHz; 802.11ac/n(HT40) 40MHz; 802.11ac(HT80) 80MHz;
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT1: 5.0dBi; ANT2: 5.0dBi;
DFS Function:	Without DFS function
TPC Function:	Without TPC function



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4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.3 Test Facility

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

NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)						
(A) Lim	(A) Limits for Occupational/Controlled Exposures									
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6						
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure							
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/ī 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30 30						

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

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



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EUT RF Exposure Evaluation 5.1.3

For BLE

Antenna Gain: 5.0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.16 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
		i olioi (abiii)	(11111)	(11117/0111)		
Low	2402	6.19	4.16	0.0026	1.0	PASS

Note: Refer to report No. GZCR211002120301 for EUT test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 2.4G WIFI

Antenna Gain: Ant1: 5.0dBi; Ant2: 5.0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.16 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Ant1

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm ²)		
High	2462	19.89	97.50	0.0613	1.0	PASS

Ant2

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm ²)		
High	2462	20.28	106.66	0.0671	1.0	PASS

Ant1+Ant2

Channel	Frequency (MHz)	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
		Power (dBm)	(mW)	(mW/cm²)		
High	2462	17.97	62.66	0.0394	1.0	PASS

Note: Refer to report No. GZCR211002120302 for EUT test Max Conducted Peak Output Power value.



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The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 5G WIFI

Antenna Gain: Ant1: 5.00dBi; Ant2: 5.00dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.16 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Ant1

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm ²)		
Low	5180	8.66	7.35	0.0046	1.0	PASS

Ant2

Channel	Frequency (MHz)	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
	,	Power (dBm)	(mW)	(mW/cm²)		
Low	5180	10.90	12.3	0.0077	1.0	PASS

Ant1+Ant2

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm ²)		
Low	5180	12.83	19.19	0.0121	1.0	PASS

Note: Refer to report No. GZCR211002120303 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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EUT Constructional Details (EUT Photos) 6

Refer to Appendix - External and Internal Photos for GZCR2110021203AT

- End of the Report -



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