

 Report No.:
 18360WC40004301
 FCC ID: 2BFF7EP1800
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# FCC Test Report

Applicant : Shenzhen SYD Network Technology Co .,Ltd

- Address
- 4F, Building NO.4, Lianchuang Science andTechnology Park, 21st Bulan Rd, Nanwan Street, Longgang District, Shenzhen, China
- Product Name : Portable Power Station

Report Date : May 24, 2024



# Shenzhen Anbotek

#### Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





FCC ID: 2BFF7EP1800

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# TEST REPORT

Applicant

Shenzhen SYD Network Technology Co .,Ltd

Shenzhen SYD Network Technology Co .,Ltd

Manufacturer

Product Name

: Portable Power Station

EP1800

Test Model No.

Reference Model No.

N078, SYD1800, RED-E1800, GPS1800, F1800, P1800, 1800A, G1800, AS1800JP, HS1800, T1800, S1800, GK-1800, M1800, PS1800, PH1800, PPS1500W2F

Trade Mark

N/A

Input: Battery Capacity: 1536Wh (40Ah, 38.4V) AC Input: 100-120V~, 50/60Hz, 1500W max. Output: USB-A output: QC3.0, 18W max. USB-C output: PD 20W max. USB-C output: PD 100W max. Car port output: 12V= 10A AC output: 100-120V~, 50/60Hz, 1800W total 47 CFR Part 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:

Mar. 21, 2024

Date of Test:

Prepared By:

Mar. 22, 2024 to May 24, 2024

NOIR FILA

(Ella Liang)

Id ward pon

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer:

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Rating(s)

Test Standard(s)



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## **Revision History**

Report Version	Description	Issued Date
Anbote R00 potet Ant	Original Issue.	May 24, 2024
Anbor Anbotek	Anbotek Anbotek Anbotek	Anboi Anbotek Anbotek Anb
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Anbc

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## FCC ID: 2BFF7EP1800

## 1. General Information

## 1.1. Client Information

Applicant	:	Shenzhen SYD Network Technology Co .,Ltd
Address		4F, Building NO.4, Lianchuang Science and Technology Park, 21st Bulan Rd, Nanwan Street, Longgang District, Shenzhen, China
Manufacturer	:	Shenzhen SYD Network Technology Co .,Ltd
Address	:	4F, Building NO.4, Lianchuang Science and Technology Park, 21st Bulan Rd, Nanwan Street, Longgang District, Shenzhen, China
Factory	:	Shenzhen SYD Network Technology Co .,Ltd
Address	:	4F, Building NO.4, Lianchuang Science and Technology Park, 21st Bulan Rd, Nanwan Street, Longgang District, Shenzhen, China

## 1.2. Description of Device (EUT)

Product Name	:	Portable Power Station
Test Model No.	:	EP1800
Reference Model No.	:	N078, SYD1800, RED-E1800, GPS1800, F1800, P1800, 1800A, G1800, AS1800JP, HS1800, T1800, S1800, GK-1800, M1800, PS1800, PH1800, PPS1500W2F (Note: All samples are the same except the model number and appearance color, so we prepare "EP1800" for test only.)
Trade Mark	:	N/A abotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Ahnbotek Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 stek Anborek Anbore Ann botek Anbore Anbo
Modulation Type	:	GFSK And
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	4.16dBi
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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#### 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
CH340 USB TO TTL UART	Mercury electronics technologies	MCS-71 Pro	Anboten Ant
DELL MONITOR	DELL Anbor	UP3218K	ler Anbol tek Anbo
DELL Microcomputer	Lek DELLEK AND	XPS 8950	boten Anbo

#### 1.4. Operation channel list

**Operation Band:** 

operation D	una.		DI.	105		i No	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>0</b> <sup>mbo</sup>	2402	10 nbore	2422	et 20 Anbot	2442	× 30 00	2462
1 Anbe	2404	otek 11 Anb	2424	otek 21 An	ooten 2444 Anior	31	2464
oten 2 A	2406	nb <sup>ote</sup> 12	2426	22	2446	32	2466
Anbot 3	2408	Anb 13	2428	23	2448	33, *	2468
Ant2pter	2410	14otek	2430	24 otek	2450	34	2470
5nbore	2412	15 note	2432	25	2452	35	2472
K 6 Anbo	2414	tek 16 Anbr	2434	26	o <sup>tek</sup> 2454 ph <sup>bo</sup>	36	2474 M
otek 7 An	2416	wote <sup>k</sup> 17	2436	27	2456	37	2476
nbot 8	2418	18	2438	28	2458	Anbor 38	2478
nb9tek	2420	19	2440	29	2460	39	2480

#### 1.5. Description of Test Modes

Pretest Modes Descriptions		Descriptions	
potek	TM1	e <sup>k</sup>	Keep the EUT works in continuously transmitting mode (BLE 1M)
Anbotek	TM2	boye	Keep the EUT works in continuously transmitting mode (BLE 2M)

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#### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

level using a coverage factor of k=2.

#### 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	tek nodek Anbo	PAR
Conducted Emission at AC power line	Mode1,2	P P
Occupied Bandwidth	Mode1,2	Anbor P.ek
Maximum Conducted Output Power	Mode1,2	Anbor P
Power Spectral Density	Mode1,2	P
Emissions in non-restricted frequency bands	Mode1,2	P Anb
Band edge emissions (Radiated)	Mode1,2	ooter P A
Emissions in frequency bands (below 1GHz)	Mode1,2	Anbore
Emissions in frequency bands (above 1GHz)	Mode1,2	Antp
Note: P: Pass poter Andread An	Anbotek Anbotek	Anbore

Anbot

N: N/A, not applicable

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Anbc



#### FCC ID: 2BFF7EP1800

#### 1.8. Description of Test Facility

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

#### FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

#### **ISED-Registration No.: 8058A**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

#### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
  - 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
  - 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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#### 1.10. Test Equipment List

		- Lever Nup				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2024-01-17	2025-01-16
4 4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A Anbo	rek /Anbotek	Anboisek
100-	when wor	Pri	det no		od to	ber prese

Maxir Powe	pied Bandwidth num Conducted Out r Spectral Density sions in non-restricte	oter And Lak	Anbotek A Anbotek	Anbotek Anbotek	Anbotek An Anbotek	Anbotek Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
An. 1Anb	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/Asnbo	2023-10-16	2024-10-15
<sub>ж</sub> 2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
,o^ <b>3</b> <sup>≮</sup>	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
Ani4ote	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11
5.00	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 P	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

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	edge emissions (Ra sions in frequency ba		Anboren	Anbotek	Anbotek	Anboi
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
* <sup>ek</sup> 3	Double Ridged Horn Antenna			02555	2022-10-16	2025-10-15
nboten 4	EMI Test Software EZ-EMC SHURPLE		N/A	N/A	Ame	Anbotek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
<sup>روپر</sup>	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24
10.	No. Pr.	N. Store	and	Yo.	~00	P.c.

Emissions in frequency bands (below 1GHz)

- 00	biene in nequency be					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antore	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.00	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/A N/A	Anbore Anbore	k Anbotek

#### Shenzhen Anbotek Compliance Laboratory Limited

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## 2. Antenna requirement

hotek Anbo.	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
And k hotek	ensure that no antenna other than that furnished by the responsible party
Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
An otek unbot	of an antenna that uses a unique coupling to the intentional radiator shall be
an Anbor K	considered sufficient to comply with the provisions of this section.

#### 2.1. Conclusion

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 4.16dBi. It complies with the standard requirement.

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## 3. Conducted Emission at AC power line

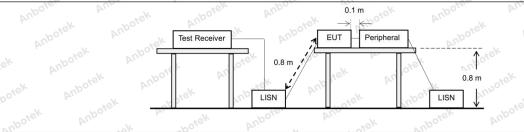
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency or frequencie of exceed the limits in the fo	nected to the at is conducted s, within the ollowing table, as			
botek Anbort	Frequency of emission (MHz)	Conducted limit (dBµV)	A. sotek			
All boten	Anbo k hotek Anboic	Quasi-peak	Average			
Anbor An	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5 tek prote And	56 botek M	46			
	5-30	60	50 ten And			
	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	abotek Anbote.	And			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un					
3.1. EUT Operation	Anbotek Anbone And	stek Anbotek Anbo	otek Anbotek			

## 3.1. EUT Operation

#### **Operating Environment:**

Operating Env	vironment:						
Test mode:	1M)	to the	otek Ant			Anbore.	ng mode (BLE
abotek Anbo	2M)	botek	Anbore	An-	Anbotek	Anbo	Anbotek

#### 3.2. Test Setup



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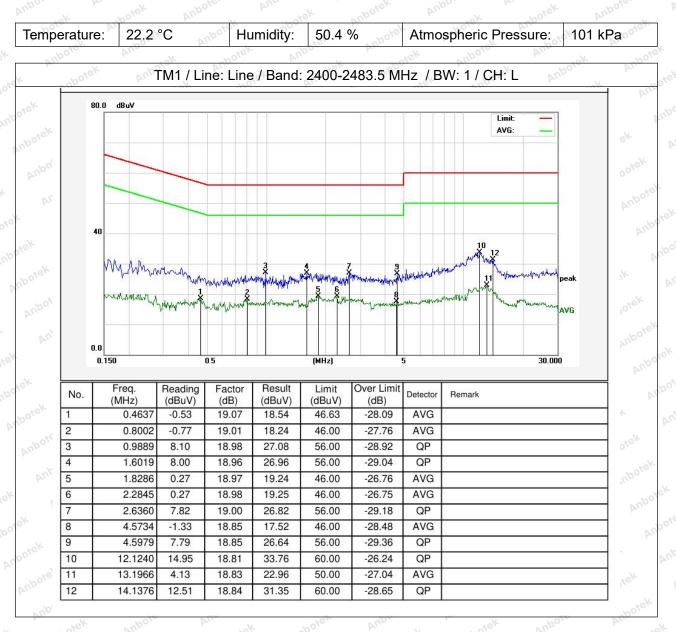


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#### 3.3. Test Data

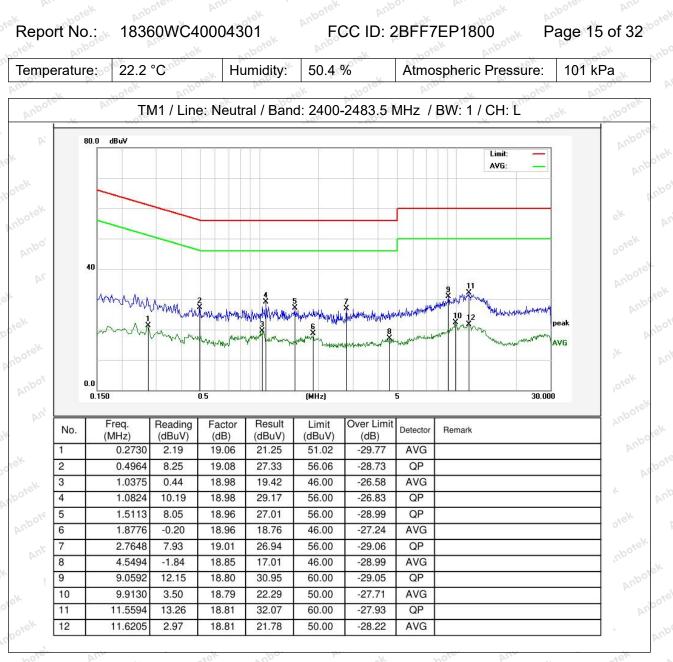


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Note: Only record the worst data in the report.

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## 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Knbotek Anbor Anbotek Anbotek	<ul><li>11.8.1 Option 1</li><li>The steps for the first option are as follows:</li><li>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</li></ul>
Ante Anbotek Anbote	b) Set the VBW ≥ [3 × RBW]. c) Detector = peak.
otek Anbotek Anb	<ul> <li>d) Trace mode = max-hold.</li> <li>e) Sweep = No faster than coupled (auto) time.</li> <li>f) Allow the trace to stabilize.</li> </ul>
Procedure:	g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
tek Anbotek Anbo	11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be
Anbotek Anbotek A	employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\ge$ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation
Anbotek Anbotek Anbotek Anbotek	function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

## 4.1. EUT Operation

Operating Envir	onment: Anbore	PUP	-otek	Anbotek	Anbo	494	n botek	Anbore	
Test mode:	1: TX mode(BL 1M) 2: TX mode(BL 2M)	otek	Anbote			potek	Anbo		

4.2. Test Setup

.3. Test Dat	a botek		And	anbotek		stek Anbote
emperature:	25.5 °C	Anboter Hu	umidity:	17 % M <sup>bC</sup>	Atmospheric Pressure:	101 kPa

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## 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

#### 5.1. EUT Operation

Operating Envir	onment:	abotek	Anbo		hotek	Anbore		N9.	000
kek nbotek	1: TX mode(BLE	E 1M): Ke	ep the EUT	ˈworks i	in contir	nuously tra	ansmitting	mode (E	3LE
Test mode:	1M) 1001								
Test mode.	2: TX mode(BLE	E 2M): Ke	ep the EUT	works i	in contir	nuously tra	ansmitting	mode (E	3LE
al de	2M)								

#### 5.2. Test Setup

|--|

#### 5.3. Test Data

Temperature:	25.5 °C	And	lumidity:	47 % Mbore	Atmospheric Pressure:	101 kPa
DUN	10×	200	h.,	V South	C. DUP	Not As

Please Refer to Appendix for Details.

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## 6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

## 6.1. EUT Operation

Test mode:       1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)         2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)	9	Operating Envir	onment:	Anbote.	Ant	-Yek	obotek	Anbo	ek h.	botek
	1	Fest mode:	1M) Anbore	PIL			Anbe	V	hotek	Anbor

## 6.2. Test Setup

		Þ	EUT		Spectrum Ar	alyzer	
notek	Anbotek	Ann	*eK	abotek	Anbo.	P.'.	ek.

## 6.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa	

Please Refer to Appendix for Details.

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## 7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anboret	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

## 7.1. EUT Operation

Operating Envir	onment:						
tek Anbotek	1: TX mode(BLE 1M)	E 1M): Kee	ep the EUT	works in c	ontinuously	transmitting i	mode (BLE
Test mode:	2: TX mode(BLE 2M)	E 2M): Kee	ep the EUT	works in c	ontinuously	transmitting i	mode (BLE
7.2. Test Set	N notek	Anbe	20 <sup>16</sup> . AN	abotek	Anbotek	Anbo	Anbotek

## 7.2. Test Setup

		FUT		Creativ	m Analym	~ ~			
		EUT		Spectru	m Analyz	er			
botek	Anbor-	b	otek	Anborer	Ano-	-ok	¥ .	abotek	Ant

#### 7.3. Test Data

Temperature:	25.5 °C	Anbu	Humidity:	47 % M <sup>bono</sup>	Atmospheric P	ressure:	101 kPa	а " <sub>е</sub> к
OUP	No.	~V00.	Pr.	N	No. PUD	5	40	2001

Please Refer to Appendix for Details.

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## 8. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the
Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 Moore
nboten And	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3 rek Anbore
aboten Anbe	88-216	150 ** poter P	3
	216-960	200 ** 0	3 boter Ant
Anbo	Above 960	500 poter Ando	3 jet n
	frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown	ing under this section shall not b lz, 76-88 MHz, 174-216 MHz or these frequency bands is permit § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on	470-806 MHz. ted under other pand edges.
	90 kHz, 110–490 kHz and a	beak detector except for the frec above 1000 MHz. Radiated emis ed on measurements employing	uency bands 9– ssion limits in
Test Method:	90 kHz, 110–490 kHz and a these three bands are base	above 1000 MHz. Radiated emis ed on measurements employing 6.10	uency bands 9– ssion limits in

## 8.1. EUT Operation

Operating Envir	onment:	Anbotek	Anbo	k.	botek	Anboter	Ann	stek N
hotek Anboten	1: TX mode(BLE	E 1M): Kee	p the EUT	works in	continuc	ously trans	mitting m	ode (BLE
Test mode:	1M) 2: TX mode(BLE	E 2M): Kee	p the EUT	works in	continuo	ously trans	mitting m	ode (BLE
And	2M)	. pri	hotek p	nboter	AUP	dek.	nbotek	Anbor

#### Shenzhen Anbotek Compliance Laboratory Limited

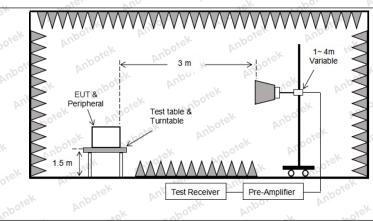
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### 8.2. Test Setup



#### Shenzhen Anbotek Compliance Laboratory Limited

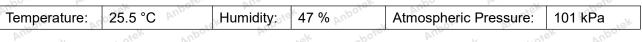
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com

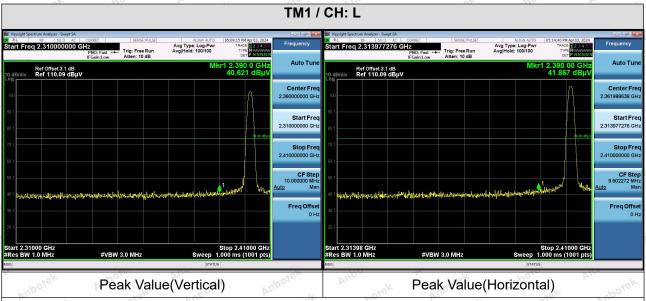


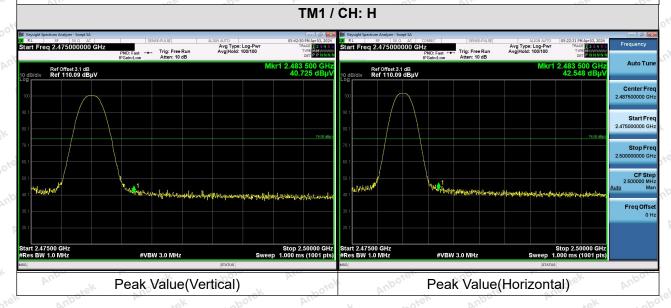


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#### 8.3. Test Data







#### Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 2. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.

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## 9. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp cified in § 15.209(a)(see § 15.2	ly with the
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
nbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Anbotek Anbote.	1.705-30.0 30-88	30 100 **	30 3
Anbote: Ant	88-216 216-960 Above 960	150 ** 200 ** 500	3
Test Limit: Stek	** Except as provided in particular intentional radiators operation frequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz. ed under other band edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		
Procedure:	ANSI C63.10-2020 section	6.6.4 ph	pore Am

## 9.1. EUT Operation

Operating Envir	onment:	Anbotek	Anbo.	ek.	botek	Anboten	And	stek M
hotek Anboter	1: TX mode(BLE	1M): Keep	the EUT	works in	continuo	usly transr	nitting mo	ode (BLE
Test mode:	1M) 2: TX mode(BLE	2M): Keep	the EUT	works in	continuo	usly transr	nitting mo	ode (BLE
Ann	2M) And	ak n	otek	Anbore	Ann	yek av	botek-	Anbo

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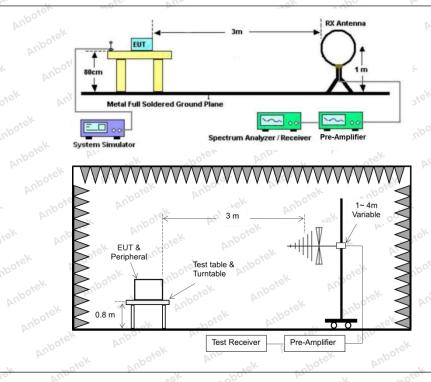
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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## 9.2. Test Setup



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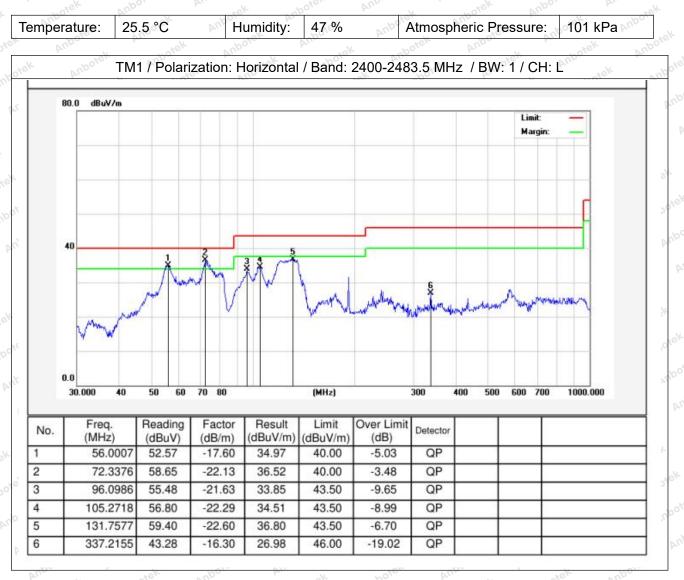




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#### 9.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

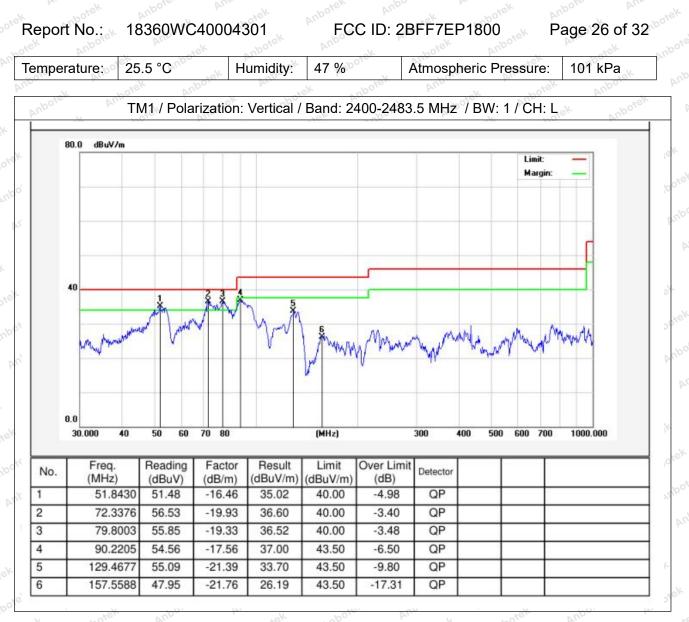


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Note: Only record the worst data in the report.

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## 10. Emissions in frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
k Anbotek Anbot otek Anbotek An	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
Inbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30					
Anbotek Anbotek	1.705-30.0 30-88 88-216	30 100 ** 150 **	30 3 3					
Anbotek Anbote	216-960 Above 960	200 ** 500	3 of a state of a stat					
Test Limit: Dreit Anboret Anbo	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector.	e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in					
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbo					
Procedure:	ANSI C63.10-2020 section	6.6.4 And Andreak And	por An Anbotek					

## 10.1. EUT Operation

Operating Envir	onment:	nbotek	Anbor	k Kr	botek	Anboter	And	dek N
hotek Anboten	1: TX mode(BLE	: 1M): Kee	p the EUT	works in	continuo	usly trans	mitting m	ode (BLE
Test mode:	1M) 2: TX mode(BLE	: 2M): Kee	p the EUT	works in	continuo	usly trans	mitting m	ode (BLE
Ann	2M)	- M	notek p	nbore	Ann	Hek .	nbotek	Anbo

#### Shenzhen Anbotek Compliance Laboratory Limited

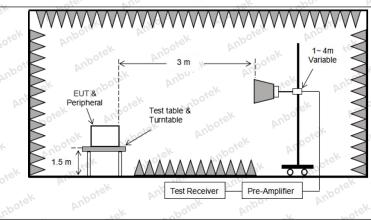
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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#### 10.2. Test Setup



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## 10.3. Test Data

Temperature:	25.5 °C	Humidity:	47 % Anbois	Atmospheric Pressure:	101 kPa
202	- Ac	No. Pr		10 P	K No.

		-	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.43	15.27	43.70	74.00	-30.30	Vertical
7206.00	28.50	18.09	46.59	74.00	-27.41	Vertical
9608.00	29.34	23.76	53.10	74.00	-20.90	Vertical
12010.00	Anbote * Ar	n ek	hotek Anb	74.00	otek Anbott	Vertical
14412.00	Anbo*ek	Anbo	botek A	74.00	stek unt	Vertical
4804.00	28.10	15.27	43.37	74.00	-30.63	Horizontal
7206.00	29.01	18.09	47.10	74.00	-26.90	Horizontal
9608.00	28.10	23.76	51.86	74.00	-22.14	Horizontal
12010.00	potek * Anbo	ak ho	rek Anbore.	74.00	k nbotek	Horizontal
14412.00	botek* An	port Arr	atek anbo	74.00	ek pote	Horizontal

#### Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.70	15.27	31.97	54.00	-22.03	Vertical
7206.00	17.55 <sup>100</sup>	18.09	35.64	54.00	-18.36	Vertical
9608.00	18.81	23.76	42.57	54.00	-11.43	Vertical
12010.00	notet.	Anboten An	sek an	54.00 M <sup>00</sup>	-k vi	Vertical <sup>o</sup>
14412.00	And *	abotek	Anbo, Ar	54.00	bote. And	Vertical
4804.00	16.43	15.27	31.70	54.00	-22.30	Horizontal
7206.00	18.04	18.09	36.13	54.00	-17.87	Horizontal
9608.00	17.61 bot	23.76	41.37	54.00	-12.63	Horizontal
12010.00	tek *	otek Anbor	ak not	54.00	And	Horizontal
14412.00	*	botek Ant	ore And	54.00	ek Anbo	Horizontal
		Clark Contraction of the Clark Contraction of	10.	69 M	N	10

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		1	ГM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	27.98	15.42	43.40	74.00	-30.60	Vertical
7320.00	28.47	18.02	46.49	74.00	-27.51	Vertical
9760.00	28.84	23.80	52.64	74.00	-21.36	Vertical
12200.00	ek * abotek	Anbor	pr. wotek	74.00	Ano	Vertical
14640.00	*	rek Anbore	Annate	74.00	Anbo	Vertical
4880.00	27.91	15.42	43.33	74.00	-30.67	Horizontal
7320.00	28.88	18.02	46.90	74.00	-27.10	Horizontal
9760.00	27.82	23.80	51.62	74.00 PM	-22.38	Horizontal
12200.00	* otek	Anboten	Ann	74.00	upor pr.	Horizontal
14640.00	Ant stok	Anbotek	Anbo	74.00	Anboren	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.79	15.42	32.21	54.00	-21.79	Vertical
7320.00	17.41	18.02	35.43	54.00	-18.57 And	Vertical
9760.00	18.66	23.80	42.46	54.00	-11.54	Vertical
12200.00	k Anbore	Ant	Anboten	54.00	abotek	Vertical
14640.00	otek * Anboth	Anbe	ek abotek	54.00	Attractek	Vertical
4880.00	16.54	o <sup>rek</sup> 15.42 m <sup>boo</sup>	31.96	54.00	-22.04	Horizontal
7320.00	18.39	18.02	36.41	54.00	-17.59	Horizontal
9760.00	17.91	23.80	41.71 M	54.00	12.29 M	Horizontal
12200.00	Antorek	Anbo	abotek	54.00	wotek A	Horizontal
14640.00	* botek	Anbore	Annotek	54.00	Anbo	Horizontal

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		•	TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.11	15.58	43.69	74.00		Vertical
7440.00	28.63	17.93	46.56	74.00	-27.44	Vertical
9920.00	29.54	23.83	53.37	74.00	-20.63	Vertical
12400.00	* wotek	Anboten	Anbe	74.00	Anbore	Vertical
14880.00	* And	ek nbotel	Anbor	74.00	Anboten	Vertical
4960.00	28.05 M	15.58	43.63	74.00	-30.37	Horizontal
7440.00	29.09	17.93	47.02	74.00	-26.98	Horizontal
9920.00	28.20	23.83	52.03	74.00	-21.97	Horizontal
12400.00	And *	abotek	Anbor	74.00	inboten Ant	Horizontal
14880.00	Art O	p	Anboten	74.00	anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	17.91	15.58	33.49	54.00	-20.51	Vertical
7440.00	18.68	17.93	36.61	54.00	200 <sup>40</sup> -17.39 M <sup>10</sup>	Vertical
9920.00	19.31	23.83	43.14	54.00	-10.86	Vertical
12400.00	K * abotek	Anbo	pt. hotek	54.00	Ann	Vertical
14880.00	* wor	sk Anboro	Annotek	54.00	Anbo	Vertical
4960.00	17.72	15.58	33.30	54.00	-20.70	Horizontal
7440.00	19.19 An	17.93	o <sup>tok</sup> 37.12 pr <sup>b0</sup>	54.00	-16.88	Horizontal
9920.00	18.06	23.83	41.89	54.00 <sup>MMV</sup>	-12.11	Horizontal
12400.00	* tek	Anbore	And	54.00	100 Mar	Horizontal
200	A 1937		100.17	20-4 	- 25 52	2. v.

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#### Remark:

14880.00

- 1. Result =Reading + Factor
- "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

54.00

3. Only the worst case is recorded in the report.

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Horizontal



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## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report ----

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