

Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 1 of 28

# FCC Test Report

**Applicant** Shenzhen Kaadas Intelligent Technology Co., Ltd.

Floor 11, Building B2, Phase 2, Creative City,

Xiandong Road, Xili Community, Xili Street,

Nanshan District, Shenzhen, Guangdong, 518000,

China

Product Name : Smart Lock

**Address** 

**Report Date** : Dec. xx, 2023

Shenzhen Anbotek Compliance Laboratory Limited









Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 2 of 28

## **Contents**

1. General Information	Au Pulo Karania
1.3. Auxiliary Equipment Used During Test      1.4. Operation channel list      1.5. Description of Test Modes	
2. Antenna requirement	1 And Andrews Andrews Andrews (1
2.1. Conclusion	1
3. Conducted Emission at AC power line	1: hor him his horse
3.1. EUT Operation	
4. Occupied Bandwidth	And Andrew Andrew Andrew Annual 1
4.1. EUT Operation	
5. Maximum Conducted Output Power	anbotes Anbo Anbo 11
5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	1 1 1
6. Power Spectral Density	Mind Annual Annu
5.2. Test Setup 5.3. Test Data 6. Power Spectral Density 6.1. EUT Operation 6.2. Test Setup 6.3. Test Data 7. Emissions in non-restricted frequency bands	
7. Emissions in non-restricted frequency bands	
7.1. EUT Operation	Ambores Andrew Andrew Andrew Andrew
7.3. Test Data	atek anbotek Anto ak Josek A
8.1. EUT Operation 8.2. Test Setup 8.3. Test Data	
9. Emissions in frequency bands (below 1GHz)	
9.1. EUT Operation	





Report No.: 18220WC30257501	FCC ID: 2	AQY4-33A	hotek Pa	age 3 of 28
10. Emissions in frequency bands (above 1GHz)	)	Anbore	Wun Anotek	24
10.1. EUT Operation	botek	Vupo.	Ar.	24
10.2. Test Setup	VII	poter	Anbe	24
10.3. Test Data	k Vupo,	b2.	ik "Joo <sub>ter"</sub>	25
APPENDIX I TEST SETUP PHOTOGRAPH	atek sabot	iek Anbo		28
APPENDIX II EXTERNAL PHOTOGRAPH		otek ant	0,0 VII.	28
APPENDIX III INTERNAL PHOTOGRAPH	Spoter An			28





Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 4 of 28

## TEST REPORT

Applicant : Shenzhen Kaadas Intelligent Technology Co., Ltd.

Manufacturer : Shenzhen Kaadas Intelligent Technology Co., Ltd.

Product Name : Smart Lock

Test Model No. : VE33A

Reference Model No. : VE33B, KA33A, KA33B

Trade Mark : Veise Kaadas

Rating(s) : Input: DC 1.5V AA\*4 battery

47 CFR Part 15.247

Test Standard(s) : ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

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:	Dec. 05, 2023
Anbotek Anbotek Anbot Anbotek	Anbotek Anbotek Anbotek
Date of Test:	Dec. 06, 2023 to Dec. 14, 2023
	k Chotek Anboak Anbo
	Stella Zhu
Prepared By:	TOVE TO THE PROPERTY OF THE PR
	(Stella Zhu)
	Idward pan
	Golward pour
Approved & Authorized Signer:	Anbo Anbo A
	Mek Modern Don)







Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 5 of 28

## **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Dec. 19, 2023
ξΘ	W. Aupotek Aupotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
(10	ore Ambotek Anbotek	Anbotek Anbotek Anbot	otek Anbotek Anbotek





Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 6 of 28

## 1. General Information

#### 1.1. Client Information

V77.				
Applicant	:	Shenzhen Kaadas Intelligent Technology Co., Ltd.		
Address	Floor 11, Building B2, Phase 2, Creative City, Xiandong R Community, Xili Street, Nanshan District, Shenzhen, Gua China			
Manufacturer	:	Shenzhen Kaadas Intelligent Technology Co., Ltd.		
Address	:	Floor 11, Building B2, Phase 2, Creative City, Xiandong Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong, 518000, China		
Factory	:	Shenzhen Kaadas Intelligent Technology Co., Ltd.		
Address	i	Floor 11, Building B2, Phase 2, Creative City, Xiandong Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong, 518000, China		

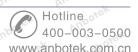
## 1.2. Description of Device (EUT)

		The second secon
Product Name	:	Smart Lock
Test Model No.	:	VE33A Andrek Andrek Andrek Andrek Andrek
Reference Model No.	:	VE33B, KA33A, KA33B (Note: All samples are the same except the model number, trade mark and whether it has fingerprint function, so we prepare "VE33A" for test only.)
Trade Mark	:	Veise Kaadas Andrew Andrew Andrew Andrew
Test Power Supply	:	DC 6V battery
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotet Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 of the Andrew Andrew Andrew Andrew Andrew Andrew
Modulation Type	:	GFSK Andrek Anbotek Anbotek Anbotek Anbotek
Antenna Type	:	FPC Antenna
Antenna Gain(Peak)	:	4.36 dBi
Pomark:		rek 200, W. K. Zole, Vur.

#### Remark:

(1) All of the RF specification are provided by customer.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual







Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 7 of 28

#### 1.3. Auxiliary Equipment Used During Test

Title Manufa		Manufacturer	Model No.	Serial No.	
	Purpose, Vupose,	And tek! upotek	Aupo, Y W. Polek	Anbote. Anb	







Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 8 of 28

#### 1.4. Operation channel list

#### Operation Band:

5/2/		· \		150	267	AV	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
V OAnbote	2402	10 000	2422	20	2442,00°	30 <sup>m</sup>	2462
otek 1 Anb	2404	otek 11	2424 NOO	21	2444 And	31 And	2464
botek2	2406	12	2426	22	2446	nbote 32	2466
3/4	2408	13	2428	Anbot 23	2448	33	2468
4 tek	2410	And 14 rek	2430	24	2450	34	2470
5 botek	2412	15	2432	25	2452	350bote	2472
ek 6 gbo	2414	16	2434 Annot	26 Anbie	2454	iek 36 Anbi	2474
Tek 7	2416 M	17	2436	otek 27 An	2456	ibotel 37 A	2476
8	2418	18	2438	28	2458	38	2478
Anbe 9 tek	2420	Anboto	2440	29	2460	39	2480

## 1.5. Description of Test Modes

Pretest Modes	Descriptions
botek AnoTM1 Anbou	Keep the EUT in continuously transmitting mode with GFSK modulation.

## 1.6. Measurement Uncertainty

Parameter	Uncertainty
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB Anborek Anbor
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 Anborek Anborek Anborek
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The management uncertainty and decision rick ave	alusted asserting to ADAMI DE E 022

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.







Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 9 of 28

#### 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	W. Wolek   Wipole	And Potek
Occupied Bandwidth	Mode1	P hote
Maximum Conducted Output Power	Mode1	ek P
Power Spectral Density	Mode1	P
Emissions in non-restricted frequency bands	Mode1	rupo, Br
Band edge emissions (Radiated)	Mode1	Anb Prek
Emissions in frequency bands (below 1GHz)	Mode1 Mode1	P P
Emissions in frequency bands (above 1GHz)	Mode1	Pant
Note: P: Pass	potek Anbotek Anbr	poiek And

N: N/A, not applicable





Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 10 of 28

#### 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

- 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.







Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 11 of 28

#### 1.10. Test Equipment List

Occupied Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
otek 1 obotek	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	Anborek	2023-10-16	2024-10-15
2 <sub>D</sub> ot	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3 <sub>A</sub> n	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

	edge emissions (Ra sions in frequency ba		otek Anbo	tek Anbot	otek Ambot	ek Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A Ando	orek N/A Ant	otek / Anbore	ntek Anbote
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
1000000	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emiş	sions in frequency ba	ands (below 1GHz)	or by	otek Ant	Otor Vup	otek Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
o <sup>tel</sup>	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
nb2°ek	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
300	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4 🔑	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE	Anbo N/A	N/A	Vipology Vi	potek / Aupo







Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 12 of 28

#### 2. Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### 2.1. Conclusion

The antenna is a FPC antenna which permanently attached, and the best case gain of the antenna is 4.36 dBi . It complies with the standard requirement.





Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 13 of 28

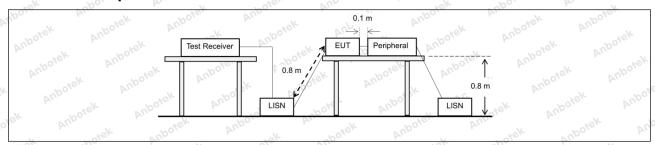
## 3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Excepsection, for an intentional radiator public utility (AC) power line, the rback onto the AC power line on alband 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con radio frequency voltage that ny frequency or frequencient of exceed the limits in the f	nnected to the at is conducted es, within the following table, as			
boiek Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)				
Yun Yek Jpolen	Anbore Anbore	Quasi-peak	Average			
Aupor Air	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5 Notes Andrews	56 NOTE AT	46			
And above	5-30 And Stek	60	50 And			
k Aupora K Wi	*Decreases with the logarithm of	the frequency.				
Test Method:	ANSI C63.10-2020 section 6.2	Potek Vupoter	Aug			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un					

## 3.1. EUT Operation

	Operating Enviror	nment:	Anbo.	boiek	Anbore.	Augustek	Anborek	Aupor
No.	Test mode: /	abotek	Anboro	Am	Anboiek	Aupa	Spotek	Aupo

#### 3.2. Test Setup



#### 3.3. Test Data

Not applicable for equipment operated with DC power supply.



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400-003-0500



Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 14 of 28

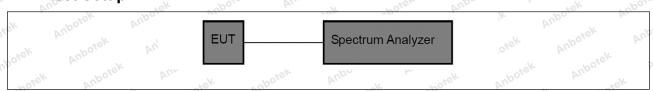
## 4. Occupied Bandwidth

47 CFR 15.247(a)(2)
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.
ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. 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.
11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be
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 ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function.  When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the

## 4.1. EUT Operation

Operating Envi	ronment:	Ans Stek	anbotek	Anbo	abotek	Anbore
Test mode:	1: TX mode: Kee modulation.	p the EUT in c	ontinuously t	transmitting mo	ode with GFSk	Anboten

#### 4.2. Test Setup



## 4.3. Test Data

Temperature: 24.4 °C Humidity: 45 % Atmospheric Pressure: 101 kPa	Temp	perature:	24.4 °C	Hum	nidity: 45 %	Arra	Atmospheric Pressure:	101 kPa	,'oo'
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Please Refer to Appendix for Details.









Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 15 of 28

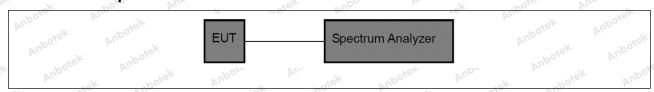
## 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Anbotek	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 Envi	ronment:	abotek	Aupore	Dir.	hotek	Aupoter	Anbe	rek	200
Test mode:	1: TX mode: modulation.	Keep the E	UT in continu	uously	transmit	ting mode	with GFSh	K hoiek	V.

#### 5.2. Test Setup



#### 5.3. Test Data

0	Temperature:	24.4 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	

Please Refer to Appendix for Details.





Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 16 of 28

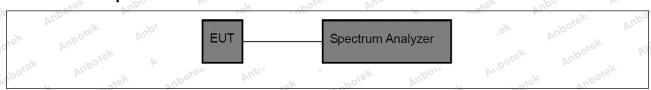
## 6. Power Spectral Density

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

Operating Enviro	nment:	Anbotek	Anbo	nbotek	Auporg	Pur. Potek
i lest mode.	1։ TX mode։ Kee <mark>լ</mark> nodulation.	the EUT in	continuously tra	ansmitting m	ode with GF	SK And abotek

#### 6.2. Test Setup



#### 6.3. Test Data

Temperature:	24.4 °C	Anbo	Humidity:	45 %	Anbore	Atmospheric Pressure: 101 kPa
--------------	---------	------	-----------	------	--------	-------------------------------

Please Refer to Appendix for Details.



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Report No.: FCC ID: 2AQY4-33A 18220WC30257501 Page 17 of 28

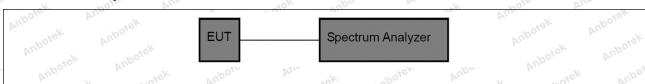
## 7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek	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 Envi	ronment:	abotek	Vupoter K	Vun	otek	Anbotek	Aupo	*ek	120
Test mode:	1: TX mode modulation.	: Keep the El	JT in continu	iously tr	ansmitt	ting mode w	ith GFSK	rotek.	Dr.

#### 7.2. Test Setup



#### 7.3. Test Data

Temperature:	24.4 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Tomporataro.	10-11-1	Trairinalty.	10 70 00	7 tarricopriorio i roccuro.	TO FAIL G

Please Refer to Appendix for Details.



Hotline



Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 18 of 28

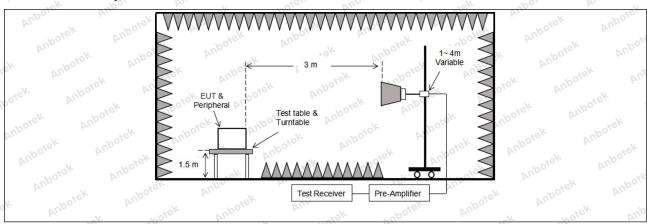
## 8. Band edge emissions (Radiated)

Pur K Potek	D-f t- 47 OFD 45 047(-1)		
Taboren And		In addition, radiated emissions	
Test Requirement:		d in § 15.205(a), must also comp	
Vupo, V.	radiated emission limits spe	ecified in § 15.209(a)(see § 15.2	05(c)).
k bojek Anbo.	Frequency (MHz)	Field strength	Measurement
Ans of	otek Anbo	(microvolts/meter)	distance
stek upote An	ok botek Anbi	otek anbore	(meters)
o siek	0.009-0.490	2400/F(kHz)	300 Mbore
aborek Anbo	0.490-1.705	24000/F(kHz)	30 50 tek
atek apoten	1.705-30.0	30° , , , , , , , , , , , , , , , , , , ,	30 And
Anbo. A. Stek	30-88	100 **	3 ek
aborek Anbe	88-216	150 **	3
All tek	216-960	200 **	3boten And
Anbo, A.	Above 960	500	3 rek no
Test Limit:	** Except as provided in pa	ragraph (g), fundamental emissi	ons from
Due VIII.		ng under this section shall not b	
hotek Anbo.	frequency bands 54-72 MH	z, 76-88 MHz, 174-216 MHz or	470-806 MHz.
ur spotek		hese frequency bands is permitt	ed under other
Auport All	sections of this part, e.g., §		tek aboten
hotek Anbo.		e, the tighter limit applies at the b	
And		in the above table are based on	
Anbore And		peak detector except for the freq	
k sotek anb		above 1000 MHz. Radiated emis	
Ver Aug.		ed on measurements employing	an average
dek appore. A	detector.	oo, k. stek supote.	Vur.
Test Method:	ANSI C63.10-2020 section	6.10° knb	
resulvieurou.	KDB 558074 D01 15.247 N	leas Guidance v05r02	ok hotek
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Dote. Yur.

## 8.1. EUT Operation

0	Operating Envir	ronment:	upotek	Aupo,	hoiek .	Anbore	Ans	iek mo	
	Test mode:	1: TX mode: K	eep the EU	Γ in continuo	usly transmitti	ng mode with	n GFSK	-ak	
S	purout moud.	modulation.						boro	

## 8.2. Test Setup





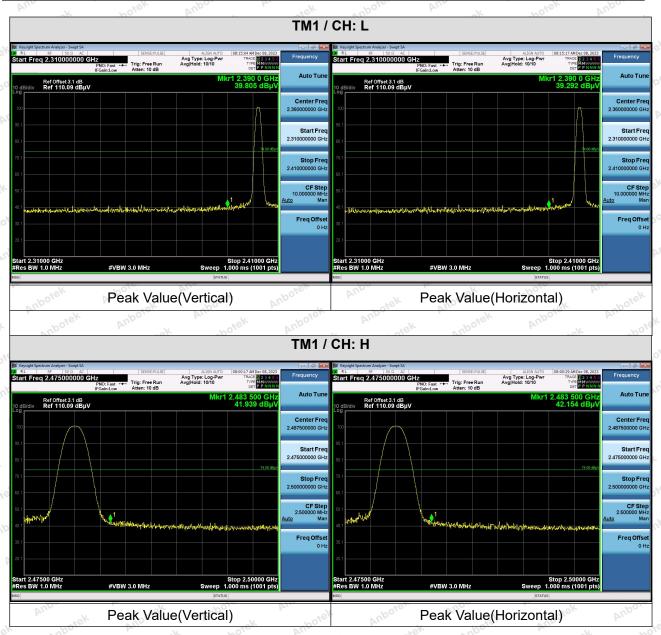




Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 19 of 28

#### 8.3. Test Data

Temperature: 24.4 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.







FCC ID: 2AQY4-33A Report No.: 18220WC30257501 Page 20 of 28

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

Test Requirement:	restricted bands, as defin radiated emission limits s	pecified in § 15.209(a)(see § 15	.205(c)).
ek Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	64 300 Mporto
Joseph Ande	0.490-1.705	24000/F(kHz)	30 Lotel
	1.705-30.0	30	30
	30-88	100 **	3,ek Anbo
	88-216	150 **	AT 3
	216-960	200 **	3 bote, An
	Above 960	500 sorter ambou	3
Test Limit:	intentional radiators opera frequency bands 54-72 M	paragraph (g), fundamental emis ating under this section shall not Hz, 76-88 MHz, 174-216 MHz o	be located in the or 470-806 MHz.
Test Limit:  Anbotek  Anbotek	intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table about The emission limits show employing a CISPR quas 90 kHz, 110–490 kHz and	paragraph (g), fundamental emis ating under this section shall not Hz, 76-88 MHz, 174-216 MHz on these frequency bands is perm	be located in the or 470-806 MHz. nitted under other band edges. on measurements equency bands 9-nission limits in
Test Method:	intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table about The emission limits show employing a CISPR quas 90 kHz, 110–490 kHz and these three bands are base	paragraph (g), fundamental emistating under this section shall not Hz, 76-88 MHz, 174-216 MHz on these frequency bands is perming \$\frac{8}{3}\$ 15.231 and 15.241.  If the tighter limit applies at the interpretation in the above table are based of the interpretation in the above table are based of the interpretation in the above table are based of the free above 1000 MHz. Radiated emisted on measurements employing in 6.6.4	be located in the or 470-806 MHz. nitted under other band edges. on measurements equency bands 9-nission limits in

## 9.1. EUT Operation

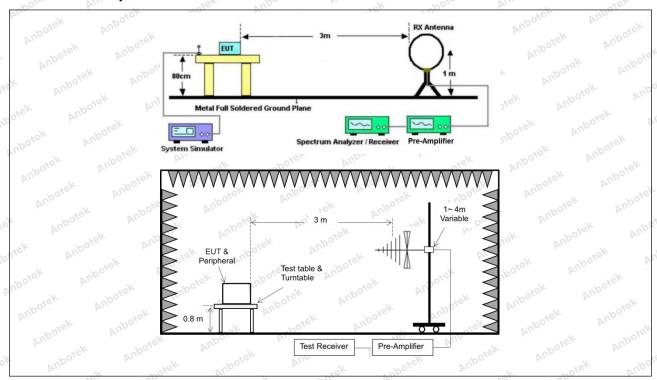
o¹	Operating Envir	onment:	anboten		o'. Y				20
	Test mode:	1: TX mode: Ke	ep the EUT	in continu	ously tran	smitting m	node with (	GFSK	h.
20	est mode.	modulation.	AUD	V	otek p	<sup>1</sup> upo,	DI.	k aboter	•





Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 21 of 28

#### 9.2. Test Setup





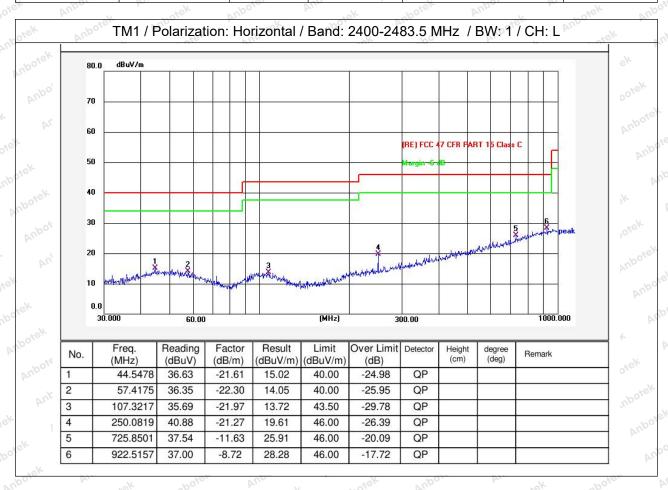


FCC ID: 2AQY4-33A Page 22 of 28 Report No.: 18220WC30257501

#### 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.

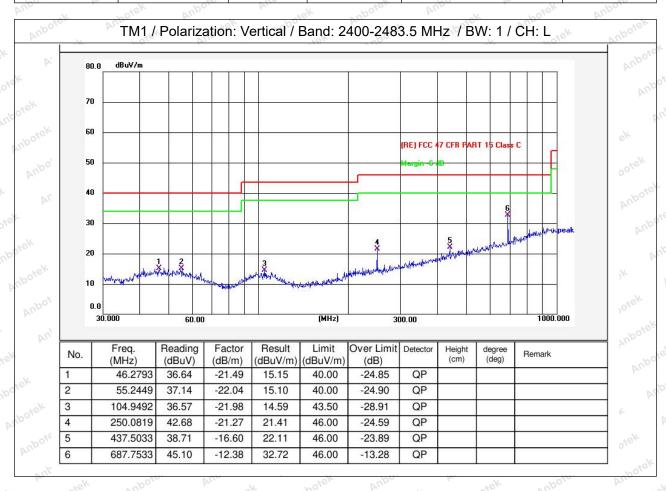
Temperature:	24.4 °C	AUL	Humidity:	45 %	Atmospheric Pressure:	101 kPa
romporataro.	- 170			1.0	/ turnesprising in second	p-101 Ki Gi





Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 23 of 28

Temperature: 24.4 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.









Page 24 of 28 Report No.: 18220WC30257501 FCC ID: 2AQY4-33A

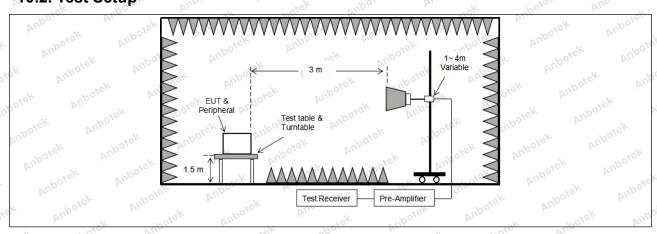
## 10. Emissions in frequency bands (above 1GHz)

Pupp.		ons which fall in the restricted ba	
Test Requirement:	in § 15.205(a), must also co in § 15.209(a)(see § 15.205	omply with the radiated emissior 5(c)).`	limits specified
k Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. br.	0.009-0.490	2400/F(kHz)	300
aborek Ando	0.490-1.705	24000/F(kHz)	30 Stek
All aboten	1.705-30.0	30	30
Anbo, Air	30-88	100 **	3,ek anbore
sbotek Anbo	88-216	150 **	3
Arm rek abore	216-960	200 **	3 boten And
Anbor	Above 960	500 Market Ambo	3 rek on
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-190 kHz, 110–490 kHz and a	aragraph (g), fundamental emissing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permittly 15.231 and 15.241.  The tighter limit applies at the bein the above table are based on beak detector except for the frequency 1000 MHz. Radiated emisted 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	· Up.	ek Aupotek
Procedure:	ANSI C63.10-2020 section	6.6.4	port. K hotel

## 10.1. EUT Operation

Operating Envi	ronment:	Anborek	Anbo,	-bojek	Anbore	A.n.b	rek ori
Test mode:	1: TX mode: K	(eep the EU	Γ in continuo	usly transmittii	ng mode wit	h GFSK	.ak
glood at the day.	modulation.				F		

## 10.2. Test Setup









Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 25 of 28

#### 10.3. Test Data

Temperature: 24.4 °C	Humidity: 45 %	Atmospheric Pressure:	101 kPa
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Vur.	hotek Anb	, p.	rick inbor	And	k hotek	Anbo.
			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	27.26	15.27	42.53	74.00	-31.47	Vertical
7206.00	27.53	18.09	45.62	74.00	-28.38	Vertical
9608.00	27.97	23.76	51.73	74.00	-22.27	Vertical
12010.00	Vupote,* V	iek.	Spotek Aup	74.00	otek Anbote	Vertical
14412.00	*Upo*ek	Anbo	potek t	74.00	otek ont	Vertical
4804.00	27.03	15.27	42.30	74.00	-31.70	Horizontal
7206.00	27.61	18.09	45.70	74.00	-28.30	Horizontal
9608.00	27.60	23.76	51.36	74.00	-22.64	Horizontal
12010.00	otek * Aupo	-K 20	ick Aupote	74.00	· upotek	Horizontal
14412.00	hotek* Ar	DOJE, VILL	dek ab	74.00	ok hote	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4804.00	15.53	15.27	30.80	54.00	-23.20	Vertical
7206.00	16.58	18.09	34.67	54.00	-19.33	Vertical
9608.00	17.44 M	23.76	41.20	54.00	-12.80	Vertical
12010.00	hotek.	Anbote. An	sek .	54.00	. Br.	Vertical
14412.00	Ant *	on potek	Aupo.	54.00	ipole. And	Vertical
4804.00	15.36	15.27	30.63	54.00	-23.37	Horizontal
7206.00	16.64	18.09	34.73	54.00	-19.27	Horizontal
9608.00	rek 17.11 nbote	23.76	40.87	54.00	-13.13	Horizontal
12010.00	sek *	otek Vupor	rk roj	54.00	YUB-	Horizontal
14412.00	4 ×	wiek ant	Ote And	54.00	ek Aupo	Horizontal



Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 26 of 28

sk Aupo.	A. Siek	anbote.	Ans	hotek	Aupo. W.	rek		
TM1 / CH: M								
Peak value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4880.00	26.81	15.42	42.23	74.00	-31.77×no	Vertical		
7320.00	27.50	18.02	45.52	74.00	-28.48	Vertical		
9760.00	27.47	23.80	51.27	74.00	-22.73	Vertical		
12200.00	ek * nbotek	Anbo.	hotek	74.00	And	Vertical		
14640.00	* * *	tek Aupole	Pur Vie	74.00	Aupo	Vertical		
4880.00	26.84	15.42	42.26	74.00	-31.74	Horizontal		
7320.00	27.48	18.02	45.50	74.00	-28.50	Horizontal		
9760.00	27.32	23.80	51.12	74.00	-22.88	Horizontal		
12200.00	* otek	Anbole	And	74.00	YUPO, OK	Horizontal		
14640.00	Ant siek	, upotek	Aupo	74.00	Aupore	Horizontal		
Average value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4880.00	15.62	15.42	31.04	54.00	-22.96	Vertical		
7320.00	16.44	18.02	34.46	54.00	-19.54	Vertical		
9760.00	17.29	23.80	41.09	54.00	-12.91	Vertical		
12200.00	k ¥upor	N Wiek	anboten	54.00	aborek	Vertical		
14640.00	otek * Anbot	And	sk spojek	54.00	b., potek	Vertical		
4880.00	15.47	15.42	30.89	54.00	-23.11	Horizontal		
7320.00	16.99	18.02 pr	35.01	54.00	-18.99	Horizontal		
9760.00	17.41	23.80	41.21	54.00	12.79 And	Horizontal		
12200.00	Anboten	Anb *ek	botek	54.00	"otek "	Horizontal		
14640.00	* ~ ~ ~ ~ ~ ~	Anbo	A. tek	54.00	AUG	Horizontal		





Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 27 of 28

V. V.	riek	"upo,	Dr.	hote.	AUD	rek
		•	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	26.94	15.58	42.52	74.00	-31.48	Vertical
7440.00	27.66	17.93	45.59	74.00	-28.41	Vertical
9920.00	28.17	23.83	52.00	74.00	-22.00	Vertical
12400.00	* Lotek	anbotes	Anb. "ek	74.00	Aupor	Vertical
14880.00	* 400	iek "potel	, Vupo,	74.00	Aupote	Vertical
4960.00	26.98	15.58	42.56	74.00	-31.44	Horizontal
7440.00	27.69	17.93	45.62	74.00	-28.38	Horizontal
9920.00	27.70	23.83	51.53	74.00	-22.47	Horizontal
12400.00	VUD*	abotek	Aupor b	74.00	rupoter Vul	Horizontal
14880.00	Ar*borr	hotek	Anborek	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	16.74	15.58	32.32	54.00	-21.68	Vertical
7440.00	17.71	17.93	35.64	54.00	18.36	Vertical
9920.00	17.94	23.83	41.77	54.00	-12.23	Vertical
12400.00	k * "potek	Aupo,	hotek	54.00	Vun Jek	Vertical
14880.00	* * *	k Aupore	Aug	54.00	Vupo.	Vertical
4960.00	16.65	15.58 No <sup>0</sup>	32.23	54.00	-21.77	Horizontal
7440.00	77.79 An	17.93	35.72 M	54.00	-18.28	Horizontal
9920.00	17.56	23.83	41.39	54.00	-12.61	Horizontal
12400.00	* tek	Anbores	Aur	54.00	100 V.	Horizontal
14880 00	An*	bolek	Anbe.	54 00	Vupotes V	Horizontal

#### Remark:

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







Report No.: 18220WC30257501 FCC ID: 2AQY4-33A Page 28 of 28

#### **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 -----

