

**Address** 

Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 1 of 28

# **FCC Test Report**

Applicant : Shenzhen Leaderment Technology Co., Ltd.

1st Floor, Building 24, Longcheng Industrial

Zone, No.39 Longguan West Road, Gaofeng

Community, Dalang Street, Longhua District,

518109, Shenzhen, China

Product Name : remote control

Report Date : Oct. 16, 2023

Shenzhen Anbotek Compliance Laboratory Limited







Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 2 of 28

## **Contents**

1. General Information	PII.	unboten And	
1.1. Client Information 1.2. Description of Device (EUT) 1.3. Auxiliary Equipment Used During Test 1.4. Operation channel list 1.5. Description of Test Modes 1.6. Measurement Uncertainty 1.7. Test Summary 1.8. Description of Test Facility 1.9. Disclaimer 1.10. Test Equipment List 2. Antenna requirement 2.1. Conclusion 3. Occupied Bandwidth 3.1. EUT Operation 3.2. Test Setup 3.3. Test Data 4. Maximum Conducted Output Power 4.1. EUT Operation 4.2. Test Setup 4.3. Test Data 5. Power Spectral Density 5.1. EUT Operation 5.2. Test Setup 5.3. Test Data 6. Emissions in non-restricted frequency bands	, 1000 year	A Alecter	
2. Antenna requirement		Pupole. V	1
2.1. Conclusion	upo, W. W.	k hupoter	
3. Occupied Bandwidth	Anbor K. Air.	rek poter	1
3.1. EUT Operation	Anbores And		1 1 1
4. Maximum Conducted Output Power	yek Aupo	Lotek M	bore And 1
4.1. EUT Operation 4.2. Test Setup 4.3. Test Data	hopelop Hubos hopely Wildon	A Marie Mari	1 1 1
5. Power Spectral Density	Aupoter Aup		Anbo. 1
5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	Papo <sub>tek</sub> V	Androine Angent	1 1 1
6. Emissions in non-restricted frequency bands.	ootek Anbore	Vu. Zatek	obo <sup>ten</sup> 1
6.1. EUT Operation	Modek Moo.	isk Pupotek	1
6.3. Test Data	Repotek Ar		<u> </u>
7.1. EUT Operation 7.2. Test Setup	orek Moder	Pupo, Vu	1
8. Emissions in frequency bands (below 1GHz).	Matek Mipoter	Aug. Ok	2
8.1. EUT Operation 8.2. Test Setup 8.3. Test Data	Anbert An	onek Pupolek	2 2 2
9. Emissions in frequency bands (above 1GHz).	74.004e/r	Aupor Ali	
9.1. EUT Operation 9.2. Test Setup 9.3. Test Data		4 "74	2 2 2





Report No.: 18220WC30203301	FCC ID: 2AS	SUP-ATYK	165	Page 3 of	28
APPENDIX I TEST SETUP PHOTOGRAPH	4 shotek				28
APPENDIX II EXTERNAL PHOTOGRAPH.	2	, abo <sup>ren</sup>	A/UD	, otel	28 Anbo
APPENDIX III INTERNAL PHOTOGRAPH.	er Anbo	r.	K Bobose	Vu.	28







Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 4 of 28

### TEST REPORT

Applicant : Shenzhen Leaderment Technology Co., Ltd.

Manufacturer : Shenzhen Leaderment Technology Co., Ltd.

Product Name : remote control

Test Model No. : ATYK165

Reference Model No. : ATSS079, ATSS115, ATRL131, ATRL139, ATRL140, ATSS130, ATSS133,

ATSS134, ATSS158, ATYK121, ATYK131, ATYK139

Trade Mark : ATUMTEK

Rating(s) : Input: DC 3V with "CR2032" battery inside

Test Standard(s) : 47 CFR Part 15.247

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.	Sept. 15, 2025
	Anborek Anborek Anbore Alin
Date of Test:	Sept. 15, 2023 to Sept. 26, 2023
	Tu Tu Hong
Prepared By:	rek Anborek Anborek Anborek
	(TuTu Hong)
poter Aupo tek Upotek Vupose V	hotek Anbotek Anbotek
	Bolward pan
Approved & Authorized Signer:	An Dorek Anbor Anborek
" Wholek Wupole Will Polek Wupole	(Edward Pan)





Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 5 of 28

### **Revision History**

	Report Version	Description	Issued Date
	Anbore ROO nborek An	Original Issue.	Oct. 16, 2023
37	W. Aupopek Aupotek	Anbotek Anbotek Anbotek	K obotek Anbotek Anb
(0	ors Anbotek Anbotek	Anbotek Anbotek Anbo.	tek anbotek Anbotek





Report No.: 18220WC30203301 Page 6 of 28

#### 1. General Information

#### 1.1. Client Information

D. 7. 7.				
Applicant	:	Shenzhen Leaderment Technology Co., Ltd.		
Address	:	1st Floor, Building 24, Longcheng Industrial Zone, No.39 Longguan West Road, Gaofeng Community, Dalang Street, Longhua District, 518109, Shenzhen, China		
Manufacturer	: Shenzhen Leaderment Technology Co., Ltd.			
Address	:	1st Floor, Building 24, Longcheng Industrial Zone, No.39 Longguan West Road, Gaofeng Community, Dalang Street, Longhua District, 518109, Shenzhen, China		
Factory	:	Shenzhen Leaderment Technology Co., Ltd.		
Address	:	1st Floor, Building 24, Longcheng Industrial Zone, No.39 Longguan West Road, Gaofeng Community, Dalang Street, Longhua District, 518109, Shenzhen, China		

### 1.2. Description of Device (EUT)

iok ibore		All hotel and he have born All
Product Name	:	remote control
Test Model No.	:	ATYK165 Anborek Anborek Anborek
Reference Model No.	:	ATSS079, ATSS115, ATRL131, ATRL139, ATRL140, ATSS130, ATSS133, ATSS134, ATSS158, ATYK121, ATYK131, ATYK139 (Note: All samples are the same except the model number, so we prepare "ATYK165" for test only.)
Trade Mark	:	ATUMTEK
Test Power Supply	:	DC 3V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A And Anborek Anborek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 hotek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK Anborek Anborek Anborek Anborek Anborek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-7.1 dBi potek Anbotek Anbotek Anbotek Anbotek Anbotek
Remark:	100	upo Aria Ano inter ando

- (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 **Úser's Manual**







Report No.: FCC ID: 2ASUP-ATYK165 Page 7 of 28 18220WC30203301

#### 1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.	
	Pi, Votek   Vupoter	Aug.	Anbo. A hotek	Anbote. Anb	

Hotline



Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 8 of 28

#### 1.4. Operation channel list

			VUD.				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
VO Over	2402	100 otek	2422	20	2442	30	2462
1 <sub>Anbot</sub>	2404	k 11 nbot	2424	21	2444 vole	31	2464
rek 2 Ant	2406	12 12 N	otek 2426 Mario	22	2446	oten 32 Ant	2466
otek3	2408	13	2428	23	2448	nbote 33	2468
4	2410	14 14	2430	Anb 24	2450	34	2470
Anbo 5	2412	Ant 15	2432	25	2452	35 tel	2472
P 6	2414	16	2434	26 otek	2454	36	2474
Zuporo	2416	17 <sub>Anbore</sub>	2436	27 nbo	2456	37	2476
iek 8 Anb	2418	nek 18 Ant	2438	28	orek 2458 Anbi	38	2478
botek 9	2420	19	2440	29	2460	100te 39	2480

### 1.5. Description of Test Modes

	Pretest Modes	Descriptions
/4	Anbotek TM1 Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation.

#### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dBoret Anbotek Anbotek Anbotek
Conducted Spurious Emission	1.24dB, hoore And Andrek Anborek Anbo
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Anbottek Anbottek
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk e	evaluated according to AB/WI-RF-F-032.

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.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 9 of 28

#### 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	abotek / Anboten	P
Occupied Bandwidth	Mode1	P <sup>Anbo</sup>
Maximum Conducted Output Power	Mode1	P
Power Spectral Density	Mode1	nbote P.
Emissions in non-restricted frequency bands	Mode1	Anbot P
Band edge emissions (Radiated)	Mode1	AP OTE
Emissions in frequency bands (below 1GHz)	Mode1	Panboa
Emissions in frequency bands (above 1GHz)	Mode1	PAR
Note: P: Pass N: N/A not applicable	Aupotek Whotek W	horek

N: N/A, not applicable





Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 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.:184111

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. 184111.

#### 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.518128

#### 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.







Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 11 of 28

#### 1.10. Test Equipment List

Occupied Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

		a negaciney barrae	710. 70.		100	7 7 7 7
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
o <sup>tek</sup> 1	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12
nbotes	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
√5	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18

		Anbotek	Aupo, Potek	Anbotek	Anbotes
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	k Auborek	Anbbrek
Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24
	Equipment  EMI Test Receiver  EMI Preamplifier  Double Ridged Horn Antenna  EMI Test Software EZ-EMC  Horn Antenna  Spectrum Analyzer	EMI Test Receiver Rohde & Schwarz  EMI Preamplifier SKET Electronic  Double Ridged Horn Antenna SCHWARZBECK  EMI Test Software EZ-EMC SHURPLE  Horn Antenna A-INFO  Spectrum Analyzer Rohde & Schwarz	Equipment Manufacturer Model No.  EMI Test Receiver Rohde & Schwarz ESR26  EMI Preamplifier SKET Electronic Double Ridged Horn Antenna EMI Test Software EZ-EMC SHURPLE N/A  Horn Antenna A-INFO LB-180400-KF  Spectrum Analyzer Rohde & Schwarz FSV40-N  Amplifier Talent Microwave TLLA18G40	Equipment Manufacturer Model No. Serial No.  EMI Test Receiver Rohde & Schwarz ESR26 101481  EMI Preamplifier SKET Electronic LNPA- 0118G-45 002  Double Ridged Horn Antenna SCHWARZBECK BBHA 9120D 9120D 02555  EMI Test Software EZ-EMC SHURPLE N/A N/A  Horn Antenna A-INFO LB-180400- KF 8  Spectrum Analyzer Rohde & Schwarz FSV40-N 101792  Amplifier Talent Microwave TLLA18G40 23022802	Equipment         Manufacturer         Model No.         Serial No.         Last Cal.           EMI Test Receiver         Rohde & Schwarz         ESR26         101481         2022-10-23           EMI Preamplifier         SKET Electronic         LNPA- 0118G-45         3KET-PA- 002         2022-10-13           Double Ridged Horn Antenna         SCHWARZBECK         BBHA 9120D         02555         2022-10-16           EMI Test Software EZ-EMC         SHURPLE         N/A         N/A         /           Horn Antenna         A-INFO         LB-180400- KF         J21106062 8         2022-10-23           Spectrum Analyzer         Rohde & Schwarz         FSV40-N         101792         2023-05-26           Amplifier         Talent Microwave         TLLA18G40         23022802         2023-05-25

Emiss	sions in frequency ba	ands (below 1GHz)	Anboick			
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 🙉	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4 4 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Alpotek	Anbores ofek







Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 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 PCB **antenna** which permanently attached, and the best case gain of the antenna is **-7.1 dBi**. It complies with the standard requirement.





Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 13 of 28

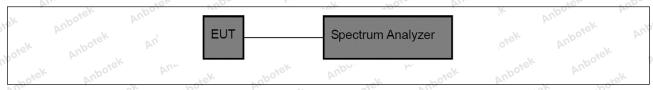
### 3. Occupied Bandwidth

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
nbotek Anbotek Anbotek Anbotek Anbotek	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].
tek Aupotek Aup	c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time.
botek Anbotek	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
Procedure:	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.
ek Anbotek Anbo	11.8.2 Option 2  The automatic bandwidth measurement capability of an instrument may be
Anbotek Anbotek	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 $\geq$ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function.
Anbotek Anbotek	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 ≥ 6 dB.

### 3.1. EUT Operation

Operating En	vironment:	Aur	anbotek	Anbo	"ak	sbotek	Anbore.
Test mode:	1: TX mode: Kee transmitting mod			oower line	and wo	rks in con	tinuously

#### 3.2. Test Setup



### 3.3. Test Data

		Temperature:	26.1 °C	Humidity:	49.5 %	Atmospheric Pressure:	101 kPa	2
--	--	--------------	---------	-----------	--------	-----------------------	---------	---

Please Refer to Appendix for Details.









Report No.: FCC ID: 2ASUP-ATYK165 18220WC30203301 Page 14 of 28

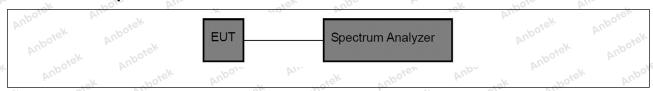
### 4. Maximum Conducted Output Power

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

### 4.1. EUT Operation

Operating E	nvironment:	nboiek	Aupora	Vie	otek	Anbotek	Aupo	.tek	2/00
Test mode:	1 1/	1.0	UT connect to GFSK modula	•	wer line	and works	in contir	nuously	V.

#### 4.2. Test Setup



#### 4.3. Test Data

Temperature:	26.1 °C	Humidity:	49.5 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.



Hotline



Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 15 of 28

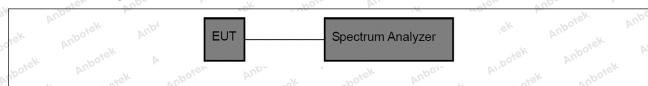
### 5. Power Spectral Density

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

### 5.1. EUT Operation

Operating Envi	onment:	<i>botek</i>	Anbotek	Anba	*eK	nbotek	Aupor	V.	hotek
Test mode:		500	the EUT co with GFSK		• 1.7	wer line and	works in	continuo	ously

#### 5.2. Test Setup



#### 5.3. Test Data

Temperature: 26	6.1 °C	Humidity:	49.5 %	Atmospheric Pressure: 101 kPa
-----------------	--------	-----------	--------	-------------------------------

Please Refer to Appendix for Details.





Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 16 of 28

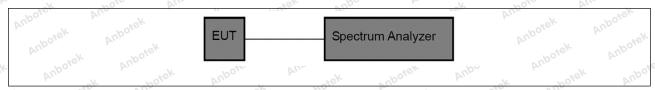
### 6. Emissions in non-restricted frequency bands

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

#### 6.1. EUT Operation

Operating Envir	ronment:	abotek	Anbore	Aug	Anborek	Vupo.	*ek abo
Test mode:	1: TX mode: transmitting				line and work	s in contin	uously

#### 6.2. Test Setup



#### 6.3. Test Data

Please Refer to Appendix for Details.



Hotline



Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 17 of 28

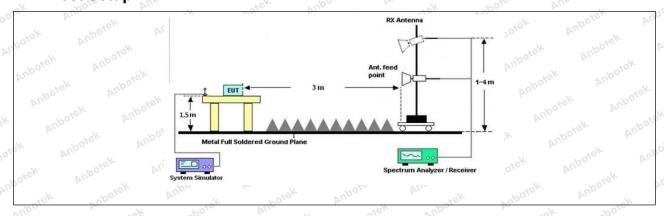
### 7. Band edge emissions (Radiated)

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
k Vupotek Vupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. h. Siek	0.009-0.490	2400/F(kHz)	300 000
abotek Anbo	0.490-1.705	24000/F(kHz)	30 50tek
All delk anboten	1.705-30.0	30° kek	30 And
Aupo, W. Siek	30-88	100 **	3,ek noore
_ botek Anbu	88-216	150 **	3
Test Limit:	216-960	200 **	3 pores
Y Aupo, M.	Above 960	500 Anbo	3 rek ont
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		Anbotek Anbo
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Aug Ciek

### 7.1. EUT Operation

Operating Env	vironment:	upojek	Aupo,	botek Potek	Aupoten	Anboatek	nbotek
Test mode:	· \/	L.O.	he EUT con	nect to AC pov	wer line and \	vorks in contin	uously

### 7.2. Test Setup





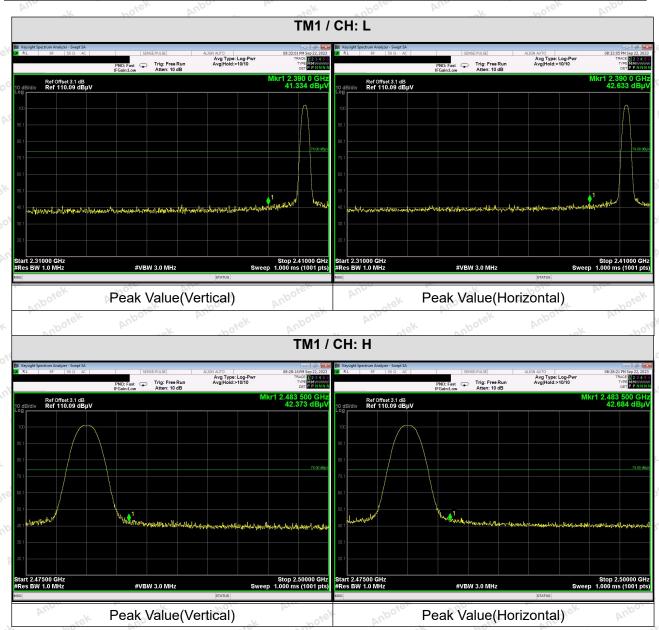




Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 18 of 28

#### 7.3. Test Data

Temperature: 26.1 °C Humidity: 49.5 % Atmospheric Pressure: 101 kPa







Report No.: 18220WC30203301 Page 19 of 28 FCC ID: 2ASUP-ATYK165

#### Average:

Test Mode	Peak Value (dBuV/m)	Correction factor	Average Value (dBuV/m)	Limit (dBuV/m)	Polarization	Verdict
TMANGOLL	41.334	-1.51	39.820	54.00 m <sup>o</sup>	Vertical	Pass
TM1 / CH: L	42.633	-1.51	41.119	54.00	Horizontal	Pass
TM4 /CILLIA	42.373	-1.51	40.859	54.00	Vertical	otel Pass
TM1 / CH: H	42.684	-1.51	41.170	54.00	Horizontal	Pass

#### Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 1. Correction factor=20log(Duty Cycle)
- 2. Average Value=Peak Value+Correction factor



Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 20 of 28

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

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
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. b.	0.009-0.490	2400/F(kHz)	300 00000
abotek Anbo	0.490-1.705	24000/F(kHz)	30 Stek
All atek anboten	1.705-30.0	30° kek	30
Aupo, W. W.	30-88	100 **	3,ek nbote
- whoten And	88-216	150 **	3
Test Limit:	216-960	200 **	3 boter And
Yupo, W.	Above 960	500 Marek	3 sek shor
upotek Aupotek  Aupotek Aupotek  Aupotek Aupotek	intentional radiators operat frequency bands 54-72 MH	aragraph (g), fundamental emissi ing under this section shall not b Iz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N		Anbotek Anbo
Procedure:	ANSI C63.10-2020 section	6.6.4	Aug Jek
·	100. by.	Str. Van . St	

### 8.1. EUT Operation

Operating Er	nvironment:					ek abotek
Test mode:	1: TX mode: Keep t	the EUT conne	ct to AC pow	ver line and v	vorks in co	ntinuously
rest mode.	transmitting mode v	with GFSK mod	dulation.	Die.	10 10	poter And

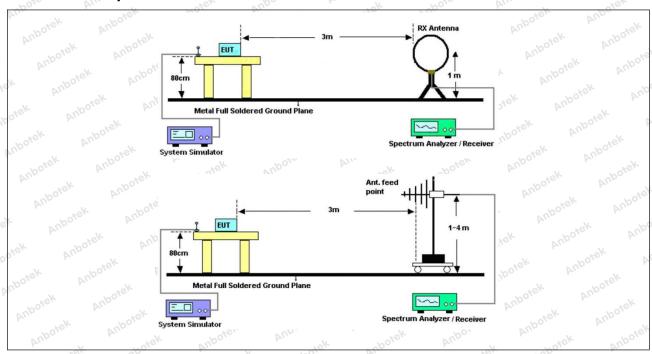






Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 21 of 28

#### 8.2. Test Setup



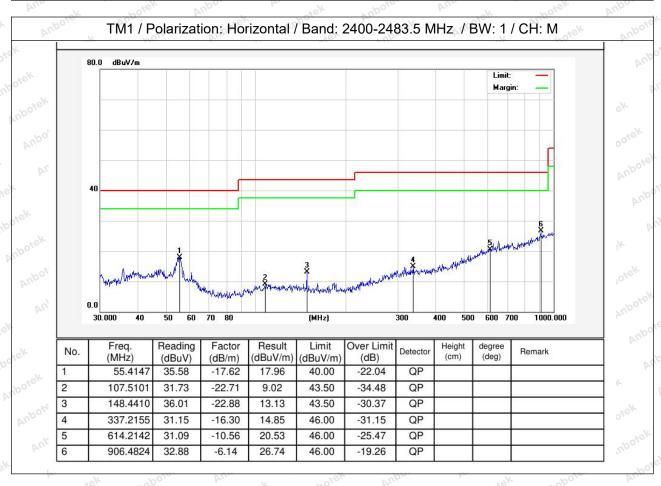




Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 22 of 28

#### 8.3. Test Data

Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 99 kPa

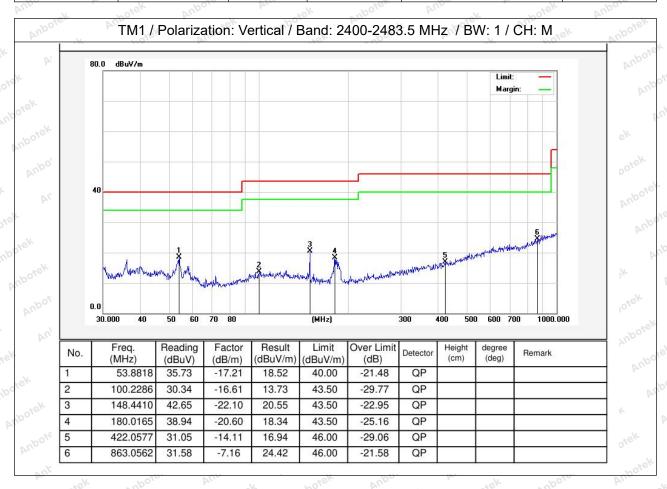






Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 23 of 28

Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 99 kPa









Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 24 of 28

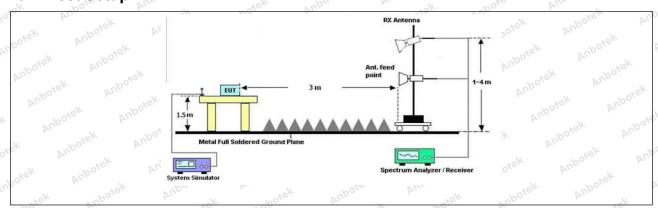
### 9. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background $5(c)$ .	
atek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
io. K Polek	0.009-0.490	2400/F(kHz)	300 Magaza
inpoter And	0.490-1.705	24000/F(kHz)	30
A. Otek Vupote,	1.705-30.0	30	30
Anbo k k kotek	30-88	100 **	3,ek anbore
To at Dimite	88-216	150 **	3
Test Limit:	216-960	200 **	3 pore. And
Anbo	Above 960	500 hotel Anbo	3 del no
Upotek Aupotek Vipotek Vipotek Vipotek Vipotek Vipotek Vipotek	intentional radiators operatifrequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b lz, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		Anbores, Anb
Procedure:	ANSI C63.10-2020 section	6.6.4	Ann

### 9.1. EUT Operation

Operating En	vironment:	, abotek	Aupor	Pr. Potek	Anboren	Anbo	abotek
Test mode:	* I	L-0"	the EUT con with GFSK m	1.50	ower line and	works in contin	uously

### 9.2. Test Setup







Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 25 of 28

#### 9.3. Test Data

Temperature: 26.1 °C Humidity: 49.5 % Atmospheric Pressure: 101 kPa

·	Po. Di.		TM4 / CH. !	•	-/- h <sub>0</sub> ,_	
			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	27.00	15.27	42.27	74.00	-31.73	Vertical
7206.00	27.31	18.09	45.40	74.00	-28.60	Vertical
9608.00	27.66	23.76	51.42	74.00	-22.58	Vertical
12010.00	Aupote * At	49:	abotek Anb	74.00	otek Anbote	Vertical
14412.00	"Upo*sk	Anbo.	hotek p	74.00	otek onk	Vertical
4804.00	26.79	15.27	42.06	74.00	-31.94	Horizontal
7206.00	27.30	18.09	45.39	74.00	-28.62	Horizontal
9608.00	27.49	23.76	51.25	74.00	-22.75	Horizontal
12010.00	otek * Aupo	-V- 100	ick Vupote	74.00	hotek	Horizontal
14412.00	woick* An	Ootor Ann	rek no	74.00	ak hore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	15.27	15.27	30.54	54.00	-23.46	Vertical
7206.00	16.36	18.09	34.45	54.00	-19.55	Vertical
9608.00	300 17.13 And	23.76	40.89	54.00	-13.11 <sub>00</sub>	Vertical
12010.00	***	Aupoles Au	- ek	54.00 M	but here	Vertical
14412.00	And * * * *	abotek	Aupor A	54.00	Ipoles Aug	Vertical
4804.00	15.12	15.27	30.39	54.00	-23.61	Horizontal
7206.00	16.33	18.09	34.42	54.00	-19.59	Horizontal
9608.00	17.00 hoore	23.76	40.76	54.00	-13.24	Horizontal
12010.00	*** * **	otek Anbott	K PU.	54.00	Augo	Horizontal
14412.00	Upos * Miles	wiek ant	Oter Augus	54.00	ek Aupor	Horizontal





Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 26 of 28

ek Anboie	Ann	anbotek	Aupo	hotek	Anbore A	otek.
		٦	ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	26.55	15.42	41.97	74.00	-32.03	Vertical
7320.00	27.28	18.02	45.30	74.00	-28.70	Vertical
9760.00	27.16	23.80	50.96	74.00	-23.04	Vertical
12200.00	ek * nbotek	Anbo.	, hotek	74.00	Ann	Vertical
14640.00	* * *	iek Aupole	Yu.	74.00	Aupo	Vertical
4880.00	26.60	15.42	42.02	74.00	-31.98	Horizontal
7320.00	27.17	18.02	45.19	74.00	-28.82	Horizontal
9760.00	27.21	23.80	51.01	74.00	-22.99	Horizontal
12200.00	*otek	Anboie	And	74.00	Yupo, ok	Horizontal
14640.00	P.T.	Anbotek	Aupo	74.00	Aupoto	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	15.36	15.42	30.78	54.00	-23.22	Vertical
7320.00	16.22	18.02	34.24	54.00	-19.76	Vertical
9760.00	16.98	23.80	40.78	54.00	-13.22	Vertical
12200.00	k *upor	V VIII.	anboten	54.00	abotek	Vertical
14640.00	otek * Anbot	And	sk spojek	54.00	A. Cotek	Vertical
4880.00	15.23	15.42	30.65	54.00	-23.35	Horizontal
7320.00	16.68	18.02	34.70	54.00	-19.31	Horizontal
9760.00	17.30	23.80	41.10	54.00	, 12.90 M	Horizontal
12200.00	anbotek	Vup.	abotek	54.00	"otek	Horizontal
14640.00	* work	Anbo	A. tek	54.00	Aug	Horizontal







Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 Page 27 of 28

en Aug	riek	"upo,	bii.	hoter	AUD	rek
		٦	ГМ1 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	26.68	15.58	42.26	74.00	-31.74	Vertical
7440.00	27.44	17.93	45.37	74.00	-28.63	Vertical
9920.00	27.86	23.83	51.69	74.00	-22.31	Vertical
12400.00	* work	Aupotes	Aup. * Sk	74.00	Vupot.	Vertical
14880.00	* Vup	ek abotel	, Vupo,	74.00	Aupote.	Vertical
4960.00	26.74	15.58	42.32	74.00	-31.68	Horizontal
7440.00	27.38	17.93	45.31	74.00	-28.70	Horizontal
9920.00	27.59	23.83	51.42	74.00	-22.58	Horizontal
12400.00	Anb.*	abotek	Vupo,	74.00	Inpose, Vu	Horizontal
14880.00	N. Aport	p	Anbores	74.00	Spotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	16.48	15.58	32.06	54.00	-21.94	Vertical
7440.00	17.49	17.93	35.42	54.00	18.58	Vertical
9920.00	17.63	23.83	41.46	54.00	-12.54	Vertical
12400.00	* * bojek	Anbox	hotek	54.00	And	Vertical
14880.00	* * %0*	k Auporon	Aug	54.00	Vupo,	Vertical
4960.00	16.41	15.58	31.99	54.00	-22.01	Horizontal
7440.00	17.48	17.93	35.41 And	54.00	-18.60	Horizontal
9920.00	17.45	23.83	41.28	54.00	-12.72	Horizontal
12400.00	* tek	Anbores	Vur.	54.00	po, by	Horizontal
14880.00	An*	"Upotek	Aupo.	54.00	Anboto	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.







Report No.: 18220WC30203301 FCC ID: 2ASUP-ATYK165 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 -----

