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Report No.:1819C40009712501

FCC ID: 2ATS9-8801E

# FCC Test Report

Applicant : Cleer Limited

Address UNITS 3306-12 33/F,SHUI ON CENTRE, NOS.6-8

HARBOUR ROAD, WANCHAI, HK, China

Anbotek

Product Name : ARC 3 Pro Sport Al Open Ear True Wireless

Headphone

Report Date : Aug. 29, 2024

**Shenzhen Anbotek** 









Report No.:1819C40009712501 FCC ID: 2ATS9-8801E

## Anib: 27 (100100012

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## TEST REPORT

Cleer Limited Applicant

Shenzhen Grandsun Electronic Co., Ltd. Manufacturer.

**Product Name** ARC 3 Pro Sport Al Open Ear True Wireless Headphone

Model No. GS8801E

Trade Mark Cleer

Input: 5V -- 200mA Rating(s)

(with DC 3.85V, 110mAh battery inside)

47 CFR Part 15.247

ANSI C63.10-2020 Test Standard(s)

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.	Aug. 06, 2024
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Date of Test:	Aug. 06, 2024 to Aug. 20, 2024
Polek Vipo, y Watek	Tupoffe, Yugar
Anbotek Anbote ak And And	Ella Liang
Prepared By:	Auporen Aug.
Anbotek Anboten And	(Ella Liang)
ak Aupolek Aupolek Aup	Idward pan
Approved & Authorized Signer:	Augores Wholes Wings
	(Edward Pan)



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## Revision History

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Anbore	Report Version	Description	Issued Date
Anb.	abotek AnROO Anbou	Original Issue.	Aug. 29, 2024
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hotek	Augosek Vupos	Aupotek Aupote, Viek Vipo	sk Aupotek Yupa

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## 1. General Information

## 1.1. Client Information

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Applicant	:	Cleer Limited Annual An
Address	:	UNITS 3306-12 33/F,SHUI ON CENTRE, NOS.6-8 HARBOUR ROAD, WANCHAI, HK, China
Manufacturer	:	Shenzhen Grandsun Electronic Co., Ltd.
Address	:	East Park, Gaoqiao Industry Zone, Pingdi Street, Longgang, Shenzhen, China
Factory	:	Shenzhen Grandsun Electronic Co., Ltd.
Address	:	East Park, Gaoqiao Industry Zone, Pingdi Street, Longgang, Shenzhen, China

## 1.2. Description of Device (EUT)

Product Name	:	ARC 3 Pro Sport Al Open Ear True Wireless Headphone
Model No.	:	GS8801E Otek Anbovek Anbovek Anbovek Anbovek
Trade Mark	:	rCleer And hotek Andorek Andorek Andorek Andorek
Test Power Supply	:	DC 5V from Charging Case, DC 3.85V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotes And hotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79, botek Auporek Auporek Auporek Au
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PIFA Antenna
Antenna Gain(Peak)	:	Left Earphone:1.97dBi Right Earphone:1.93dBi

#### 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.
- (3) The EUT consists of two parts, the left and right earphone, both have been tested and only the test data of Left earphone recorded in this report.









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## Anbotek 1.3. Auxiliary Equipment Used During Test

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Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W ada	pter Xiaomi	MDY-11-EX	SA62212LA04358J
Charging Cas	Shenzhen Grandsun Electronic Co., Ltd.	GS1399C	Was apology Aug

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Shenzhen Anbotek Compliance Laboratory Limited



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## 1.4. Operation channel list

Operation Band:

AUPO	Operation b	pariu.	Die VI		761	VUD.	Yar	" " " " " " " " " " " " " " " " " " "
Anbo'	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
P	Upor O	2402	20	2422	40,botek	2442	60	otek 2462 kup
ik.	Anbolt	2403	2100181	2423	k 41 Anb	2443 And	61	2463
potek	1200 tok	2404	22 Anbol	2424	12 A2	2444 N	62	2464
Anboick	3 Aupoli	2405	otek 23 A	2425 AT	43	2445	Anb 63	2465
Anb	rek 4 An	2406	24	2426	And 44 tek	2446	64	2466
<i>V</i> .	nborek5	2407	25	2427	45	2447, botek	65 Anbox	2467
ek	6ek	2408	26 John K	2428	46	2448	rek 66 M	2468
	7,000 kg/8	2409	27	2429 Anbo	47 Ant	2449	nbol®67	2469
lpotek	8	e <sup>k</sup> 2410 <sub>k</sub> nb <sup>ott</sup>	28	2430	100 <sup>101</sup> 48	2450	68	2470
Anbote	9	100 te 2411 An	o <sup>oten</sup> 29	2431	49	2451	69 otek	2471
Ant	10	2412	Anbo30	2432	50° 10'k	2452	70 <sub>100</sub>	e* 2472 <sub>knbol</sub>
	Anbord 11	2413	A31 10 10 10 10 10 10 10 10 10 10 10 10 10	2433	51 Anbore	2453	71	10010 2473 N
ck.	12	2414	32 nbote	2434	52 <sub>An</sub>	o <sup>telt</sup> 2454 Mil	72	2474
nbotek	13.60 tel	2415	ek 33 Anb	2435 And	53	2455	Anbo 73	2475
Anbore	* 14 Anbc	2416	hove 34	2436	54 <sub>k</sub>	2456	N74	2476
	potek 15	2417	35	2437	And 55	2457	75 <sup>100</sup> 10	2477
An	16	2418	An 36 18k	2438	56	2458	76 Anbe	2478
otek	17,ex	2419	37	2439	57 Anbo	2459	ootek 77	2479
-ak	18	2420	38	2440 <sub>Mil</sub>	o <sup>tek</sup> 58 N	2460	78	2480
Anbotek	19	otek 2421 Anb	39 An	2441	59	2461	h. nbotek	Vispolsk
Anbo	"ak VIII"	Anbotek P	"upolek	Anborek	Aupolek	Vuporer 100 fek	Anborel	Aupolek
	POLO	VIII	, olek	VUD	· No.	apore	b	.VV.

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## 1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1× Anbote	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
And otek TM2 otek An	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
And Andotek TM3 Andotek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Anbotek TM4 Anbote	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
otek Another Another	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
TM6	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

## 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz ek Anbotek Anbote
Conducted Output Power	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

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.





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## Anbolek 1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	Augore / Alle	Pupoter
Conducted Emission at AC power line	Mode1,2,3	K P Anb
Occupied Bandwidth	Mode1,2,3	potek P
Maximum Conducted Output Power	Mode1,2,3	P
Channel Separation	Mode4,5,6	Pick
Number of Hopping Frequencies	Mode4,5,6	Papote
Dwell Time Anbotek Anbotek Anbotek	Mode4,5,6	P
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P
Band edge emissions (Radiated)	Mode1,2,3	NOOLE P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	Anbold P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	A POOL

N: N/A, not applicable

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## 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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, 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.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 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.
- 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.
- 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.





## 1.10. Test Equipment List

Cond	ucted Emission at A	C power line	W. Upolek	Aupoles	K Volek	Anborek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
nbotek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
Anbo	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
o <sup>ve</sup> 4	Artificial Mains Network	Schwarzbeck	PVDC 8301	8301- 00097	2024-01-17	2025-01-16
105tek	Artificial Power Network	Schwarzbeck	PVDC 8301	8301- 01021	2024-01-17	2025-01-16
6 <sup>0</sup> / <sub>0</sub> 0	Software Name EZ-EMC	Farad Technology	ANB-03A	Anbo N/A	Aupor	Aupore),

Occupied Bandwidth

Maximum Conducted Output Power
Channel Separation

**Channel Separation** 

Number of Hopping Frequencies

**Dwell Time** 

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Emissions in non-restricted frequency bands

li	tem <sup>©</sup>	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
131/s	1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
doc	2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
P	3010	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
	4 <sub>An</sub>	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
	5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
otel	6	MXG RF Vector Signal Generator	Agilent botek	N5182A	MY474206 47	2024-02-04	2025-02-03



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Anb	olek Anborek	Vupo. Yek	abotek A	upole.	Yu. Polek	Anbotek A
	edge emissions (Ra sions in frequency ba		Aupolek	Aupore ofek	Aupolek	Aupolek.
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
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A N/A	Woolek	Vupor ofek
01015	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
Anb6rek	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
Zupo	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal	Cal.Due Dat
1,0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
Anba 2	Pre-amplifier	SONOMA	10N N	186860	2024-01-17	2025-01-16
3 <sup>Anb</sup>	Bilog Broadband Antenna	Schwarzbeck	VULB9163	Anb 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	N/A <sup>botes</sup>	N/A	otek / Aupote	Anbo

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## 2. Antenna requirement

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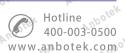
Test Requirement:

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 PIFA Antenna which permanently attached, and the best case gain of the antenna is 1.97dBi for Left Earphone and 1.93dBi for Right Earphone. It complies with the standard requirement.

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## 3. Conducted Emission at AC power line

otek Vupotek b	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the radiator to the section of the	hat is designed to be con idio frequency voltage tha	nected to the
Test Requirement:	back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	exceed the limits in the fo	ollowing table, as
Vupo ek	Frequency of emission (MHz)	Conducted limit (dBµV)	ek abolek
k Aupole, Aug	rek Spokek Aupo	Quasi-peak	Average
- dek	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 And O	.56 h	46
iek "poler	5-30 And	60	50
Anbout K hotek	*Decreases with the logarithm of th	ne frequency.	spotek b
Test Method:	ANSI C63.10-2020 section 6.2	polek Aupole	Vi.
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-

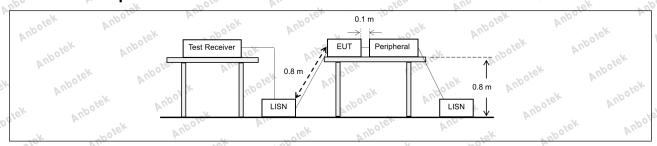
## 3.1. EUT Operation

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		V	W.O.,	100		V. I	
Operating Envir	onment:	Aupolen	Yun Jek	Vupotek	Anbo	polek	Anb
Aupotek Au	hopping)	) with GFSk	modulation.	Anbo	1000 %	smitting mode (	
Test mode:	(non-hop 3: TX-8D	oping) with <sup>`</sup> OPSK (Non-	π/4 DQPSK mo Hopping): Keep	dulation.	18K	nsmitting mode	40.
lek Pupo,	hopping	) with 8DPS	K modulation.	Y II.	"Olek	AUD	2/6

## 3.2. Test Setup







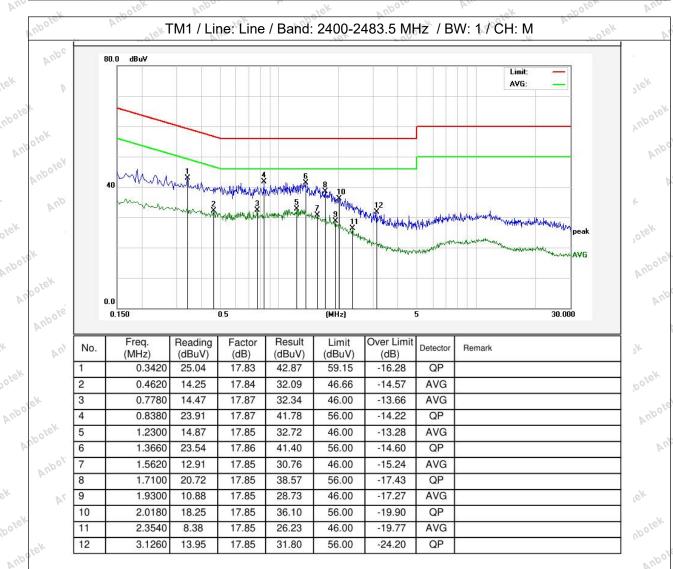


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#### 3.3. Test Data

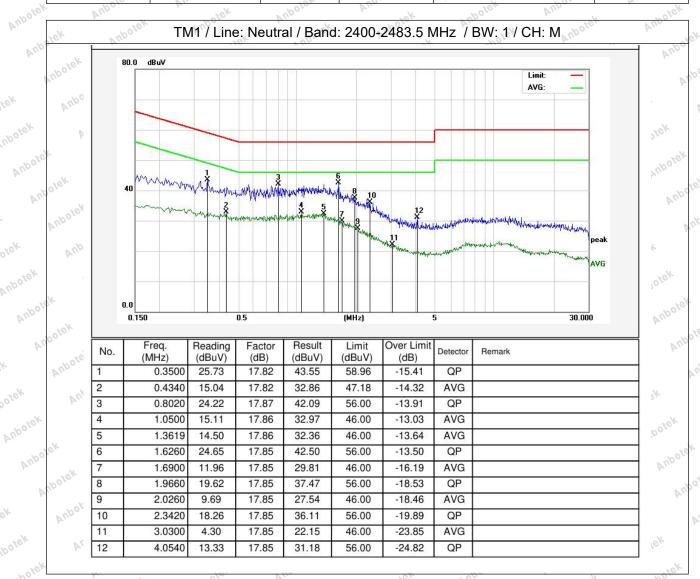
Temperature: 24.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa







Temperature: 24.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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## 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:  a) The instrument center frequency is set to the nominal EUT channel center frequency.
Vupotek Vupotek Vupotek Vupotek	frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
Aupotek Aupotek	c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.
Procedure:	d) Step a) through step c) might require iteration to adjust within the specified range.
Anbotek Anbotek	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
Anbotek Anb	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the
tek Aupotek	trace data points are recovered and directly summed in linear power terms.  The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is
Aupotek Aupotek	recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
Wipotek Wipor	h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per
And abotek	division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

## 4.1. EUT Operation

Operating Envir	ronment:	Anbo	Spokek	Aupole	Votek.	Anboien	P
Test mode:	1: TX-GF	SK (Non-Hop	ping): Keep the	EUT in contir	nuously transmit	ting mode (no	n-









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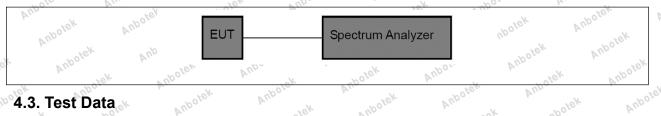
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hopping) with GFSK modulation.

- 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with  $\pi/4$  DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with 8DPSK modulation.

## 4.2. Test Setup



### 4.3. Test Data

Temperature:	22.2 °C	Humidit	y: 51 %	Atmosphe	eric Pressure:	101 kPa
Vupole.	Ans	Spokek	Aupo	"Olek	Aupolo	VII.
Please Refer t	o Appendix f	or Details.	Aupolek	Anb	bolek	Aupor





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## 5. Maximum Conducted Output Power

W. W.	The trope All the trope	1/20
Test Requirement:	47 CFR 15.247(b)(1)	uporo
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating the 2400-2483.5 MHz band employing at least 75 non-overlapping hopp channels, and all frequency hopping systems in the 5725-5850 MHz bar watt. For all other frequency hopping systems in the 2400-2483.5 MHz b 0.125 watts.	ing nd: 1
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02	otek
otek Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequer happing shall be disabled for this test. Use the following appetrum analysis.	ncy <sup>anb</sup>
Anbotek Anbotek	hopping shall be disabled for this test. Use the following spectrum analyzettings:  a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.	
Aupotek Au	<ul> <li>b) RBW &gt; 20 dB bandwidth of the emission being measured.</li> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> </ul>	o tek
Procedure:	e) Detector function: Peak. f) Trace: Max-hold.	Ann
Aupotek Vupotek	g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.	ek
Aupolek Aupo	<ul> <li>i) The indicated level is the peak output power, after any corrections for external attenuators and cables.</li> <li>j) A spectral plot of the test results and setup description shall be include</li> </ul>	ed in
Potek Aupotek	the test report.  NOTE—A peak responding power meter may be used, where the power	"Upo,
Anbotek Anbotek	meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.	P.
5.1. EUT Operation	Viek Aupoles Augolek Aupolek Aupolek Aupo	ick

## 5.1. EUT Operation

Operating Envi	ronment:	Yun Yek	upoiek	Anbo	potek	Anbolo
Test mode:	1: TX-GFSK (No hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (N hopping) with 8D	SK modulation. K (Non-Hopping) th π/4 DQPSK m on-Hopping): Kee	: Keep the I lodulation. ep the EUT	EUT in continu	ously transmittir	ng mode



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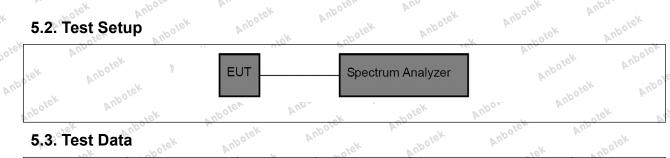
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## 5.2. Test Setup



### 5.3. Test Data

5.3. Test Dat	a hotek	Anborek	'upole	Vupolek Vi	Aupoler	Anotok
Temperature:	22.2 °C	Humidity:	51 %	Atmosph	eric Pressure:	101 kPa

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Please Refer to Appendix for Details.

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## 6. Channel Separation

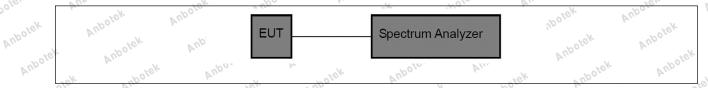
400		D1.	707	~ 07	-/-
Test Requirement:	47 CFR 15.247(a)(1)	"Upolek	Anbor	Wolek	Aupole
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247 hopping channel carrier the 20 dB bandwidth of Alternatively, frequency band may have hopping 25 kHz or two-thirds of whichever is greater, pr greater than 125 mW.	frequencies se the hopping ch hopping systen g channel carrie the 20 dB band	eparated by a annel, whiche ns operating i er frequencies width of the h	minimum of 25 ever is greater. In the 2400-248 that are separa opping channel	kHz or 3.5 MHz ated by
Test Method:	ANSI C63.10-2020, sec KDB 558074 D01 15.24		nce v05r02	Y Volek	And
Aupotek Aupotek  Aupotek Aupotek	The EUT shall have its spectrum analyzer setti a) Span: Wide enough b) RBW: Start with the I spacing; adjust as nece channel. c) Video (or average) ba	ngs: to capture the p RBW set to app ssary to best id andwidth (VBW	peaks of two a proximately 30 lentify the cen ) ≥ RBW.	djacent channe % of the chann	ls. <sub>otek</sub> el
Procedure:	d) Sweep: No faster that e) Detector function: Per f) Trace: Max-hold. g) Allow the trace to state Use the marker-delta fur peaks of the adjacent coregulatory limit shall be	eak. bilize. Inction to detern hannels. Compl	mine the sepa liance of an E	UT with the app	oropriate
er Vup	included in the test repo		Anborro	Addres cridin	Anbo

## 6.1. EUT Operation

	Operating Envir	onment:	Aupolen	Vun Vick	* uporek	Vupo,	w polek
	Vupoter.		SK (Hopping): K modulation,.		in continuously	y transmitting m	ode (hopping)
*	Test mode:	5: TX-π/4	-DQPSK (Hop			nuously transmit	ting mode
o <sub>C</sub>	ter. Vur	6: TX-8DF	PSK (Hopping)	): Keep the EU	T in continuous	sly transmitting r	node (hopping)
	otek Anbo	with 8DPS	SK modulation	· upoter	And	hotek A	'upo, W.

## 6.2. Test Setup

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### 6.3. Test Data

upotek	6.3. Test Data	a Aupolek	Vupote <sub>k</sub>	Aupor apolek	Anbotek	Aupole, Potek	Anbotek
Aupolek	Temperature:	22.2 °C	Humidity:	51 % , , otek	Atmospheric	Pressure:	101 kPa
dn	Jiek Vupo	K " Wolek	Aupole	VII.	Aupotek.	And	ek abotek
100	Please Refer to	Appendix for Det	ails.	ek Vupo	F-	ck 200	V. V.

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## 7. Number of Hopping Frequencies

upoler	Test Requirement:	47 CFR 15.247(a)(1)(iii)
otek otek	Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Aupole	Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbote Anbote An	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Vupo,	ek Anbotek Anbotek  Anbotek Anbotek	f) Trace: Max-hold. g) Allow the trace to stabilize.  It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

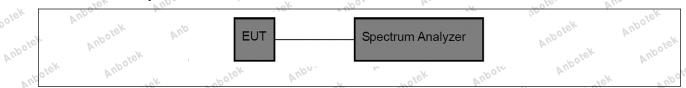
## 7.1. EUT Operation

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Operating Envir	ronment:	Potek.	Aupole.	And	Anbolek	Aupo
Test mode:	with GFSK 5: TX-π/4-I (hopping) v 6: TX-8DP	modulation,. DQPSK (Hoppin with π/4 DQPSK	ng): Keep the modulation.	n continuously tr EUT in continuo in continuously	usly transmitt	ing mode

## 7.2. Test Setup

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### 7.3. Test Data

upolek	7.3. Test Data	y Vupolek	Aupotek	Aupo, upo, lek	Anbotek	Aupore	Anbotek
Aupolek	Temperature:	22.2 °C	Humidity:	51 %	Atmospheric	c Pressure:	101 kPa

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Please Refer to Appendix for Details.

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Report No.:1819C40009712501 FCC ID: 2ATS9-8801E

## 8. Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
Who sek Aupotek	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
Anbotek Anbotek Anbotek Procedure: Anbotek	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest
Anbotek Anbotek	dwell time with the minimum number of channels.  Use the following spectrum analyzer settings to determine the dwell time per
Potek Auporek V	hop:  a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be
Aupotek Aupotek	set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this.
ek Anbotek Anbotek	d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
Aupotek Aupotek	<ul><li>e) Detector function: Peak.</li><li>f) Trace: Clear-write, single sweep.</li><li>g) Place markers at the start of the first transmission on the channel and at</li></ul>





the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is  $3 / 0.5 \times 10$ , or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

## 8.1. EUT Operation

#### Operating Environment:

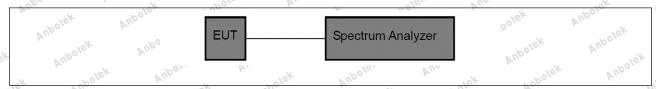
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.

Test mode:

5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with  $\pi$ /4 DQPSK modulation.

6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

## 8.2. Test Setup



## 8.3. Test Data

Temperature:	22.2 °C	Vupo.	Humidity:	51 %	Atmospheric Pressure:	101 kPa	Ve
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Please Refer to Appendix for Details.









Report No.:1819C40009712501 FCC ID: 2ATS9-8801E

9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Sk Vupoliour	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency
, hotek	band in which the spread spectrum or digitally modulated intentional radiator
POIGH YUD	is operating, the radio frequency power that is produced by the intentional
rek anboten	radiator shall be at least 20 dB below that in the 100 kHz bandwidth within
Aupor A.	the band that contains the highest level of the desired power, based on
Potek Aupo	either an RF conducted or a radiated measurement, provided the transmitter
Test Limit:	demonstrates compliance with the peak conducted power limits. If the
"upole" b	transmitter complies with the conducted power limits based on the use of
r. Stek	RMS averaging over a time interval, as permitted under paragraph (b)(3) of
tek Aupo.	this section, the attenuation required under this paragraph shall be 30 dB
ek Polek	instead of 20 dB. Attenuation below the general limits specified in §
upole, Aur	15.209(a) is not required.
" Vupole	All Alexanders and Al
Test Method:	ANSI C63.10-2020 section 7.8.7
Thorek Vup	KDB 558074 D01 15.247 Meas Guidance v05r02
VII.	7.8.7.1 General considerations
· Aupore	To demonstrate compliance with the relative out-of-band emissions
, olek	requirements conducted spurious emissions shall be measured for the
Jiek Aupo	transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers.
ok spokek	Frequency hopping shall be disabled for this test with the exception of
Tupole, Vin	measurements at the allocated band-edges which shall be repeated with
rek vupok	hopping enabled.
Anbo	Olek Vupote, Will Pek Joseph Vupo
hotek An	Connect the primary antenna port through an attenuator to the spectrum
ALL	analyzer input; in the results, account for all losses between the unlicensed
k upole.	wireless device output and the spectrum analyzer. The frequency range of
rek	testing shall span 30 MHz to 10 times the operating frequency and this may
otek Aupo	be done in a single sweep or, to aid resolution, across a number of sweeps.
ok spotek	The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a
Vupore. Vue	coupled sweep time with a peak detector.
y. Tek Vupol	And Andore Ando
Procedure:	The limit is based on the highest in-band level across all channels measured
Hotek Ar	using the same instrument settings (resolution bandwidth of 100 kHz, video
Ans	bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To
sk vupoje,	help clearly demonstrate compliance a display line may be set at the
" Lek	required offset (typically 20 dB) below the highest in-band level. Where the
otek Anbo	highest in-band level is not clearly identified in the out-of-band
ek polek	measurements a separate spectral plot showing the in-band level shall be
" upote. Tur	provided.
r. rek "upo	And And Andrew Andrew Andrew Andrew
Anbo	When conducted measurements cannot be made (for example a device with
Hotek P	integrated, non-removable antenna) radiated measurements shall be used.
Anv	The reference level for determining the limit shall be established by
ek anbolek	maximizing the field strength from the highest power channel and measuring
·- W.	using the resolution and video bandwidth settings and peak detector as
rotek Aupora	described above. The field strength limit for spurious emissions outside of
'up. "I'ek	restricted-bands shall then be set at the required offset (typically 20 dB)
abotek Anbo	below the highest in-band level. Radiated measurements will follow the
Alle.	standards measurement procedures described in Clause 6 with the







exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

#### 7.8.7.2 Band-edges

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

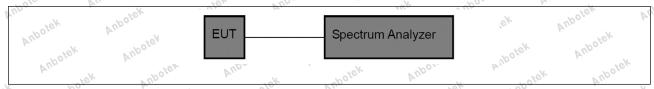
## 9.1. EUT Operation

## Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with  $\pi$ /4 DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
- 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
- 5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with  $\pi$ /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

### 9.2. Test Setup

Test mode:



## 9.3. Test Data

Temperature: 22.2 °C	Humidity: 51 %	Atmospheric Pressure:	101 kPa 🗥
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Please Refer to Appendix for Details.







## 10. 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	ly with the
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Aupotek Aupo	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Auport A.	1.705-30.0 30-88	30 100 **	30 And And
otek Anbotek	88-216 216-960	150 ** 200 **	3 3 10 10 k
Test Limit: Anbores  Anbores	intentional radiators operatifrequency 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 quasifully go kHz, 110–490 kHz and a these three bands are base detector.	e, the tighter limit applies at the bin the above table are based on beak detector except for the frequency 1000 MHz. Radiated emised on measurements employing	ons from e located in the 470-806 MHz. ed under other oand edges. measurements uency bands 9— esion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M	-40.	ootek Vupose
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Upolek Vupor
10.1. EUT Operatio	u Vuporez Vuporek	Aupotek Aupo	Anbotek Ant

## 10.1. EUT Operation

	ok Potek Vipoles, Vin Olek Vipole	Operating Environment:
e (non-	Hopping): Keep the EUT in continuously transmitting mode K modulation.	
ı mode	(Non-Hopping): Keep the EUT in continuously transmitting	Test mode: 2: TX-π/
de (non-	-Hopping): Keep the EUT in continuously transmitting mod	3: TX-8C
	π/4 DQPSK modulation. -Hopping): Keep the EUT in continuously transmitting mod SK modulation.	(non-nop 3: TX-8D



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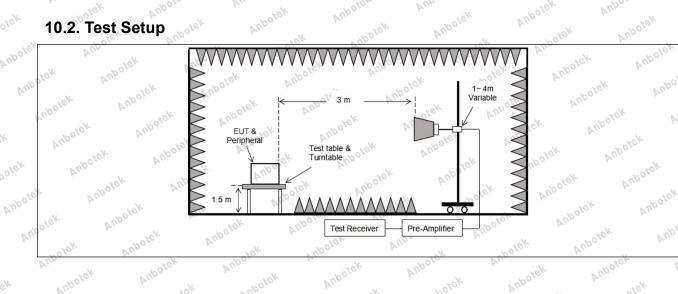
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## 10.2. Test Setup



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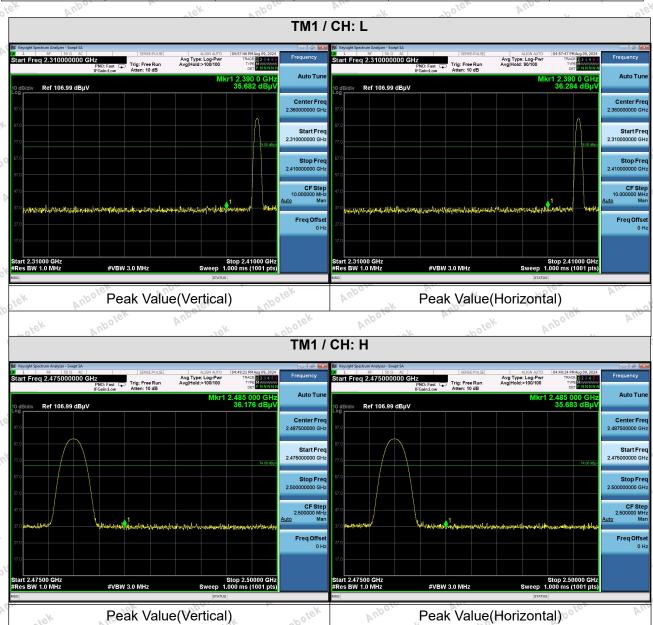


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#### 10.3. Test Data

Temperature: 22.2 °C Humidity: 51 % Atmospheric Pressure: 101 kPa



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- 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.







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

frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under othe sections of this part, e.g., §§ 15.231 and 15.241.  In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurement	Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measuremer distance (meters)
Test Method:  1.705-30.0 30 30 30-88 100 ** 3 88-216 150 ** 3 216-960 200 ** 3 Above 960 500 3  ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under othe sections of this part, e.g., §§ 15.231 and 15.241.  In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  ANSI C63.10-2020 section 6.6.4	Anboren Anb	- V		
Test Method:  88-216  150 **  150 **  1500 **  1	k Aupoles A	1.705-30.0	30 K NOTEK AN	30
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under othe sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  Test Method:  ANSI C63.10-2020 section 6.6.4	otek Aupotek	88-216 216-960	150 ** 200 **	3
I IOCI MICITORI	Augumm.			
	Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH However, operation within 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 these three bands are base	ing under this section shall not dz, 76-88 MHz, 174-216 MHz or these frequency bands is permis 15.231 and 15.241. The tighter limit applies at the in the above table are based or peak detector except for the fre above 1000 MHz. Radiated emission, 174-216 and	be located in the 470-806 MHz. Itted under other band edges. In measurements quency bands 9 ission limits in

## 11.1. EUT Operation

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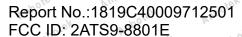
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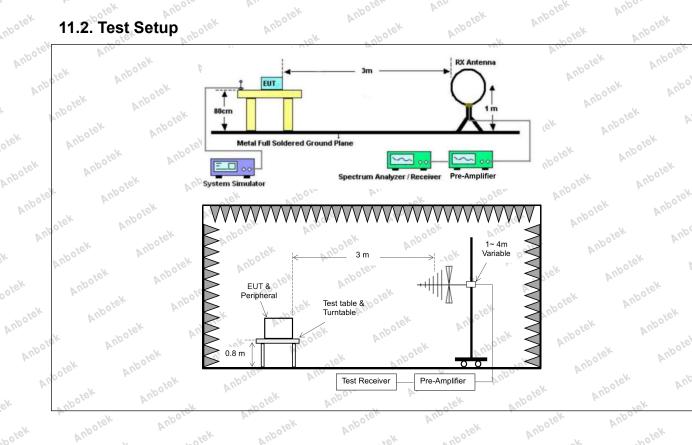
## 11.2. Test Setup

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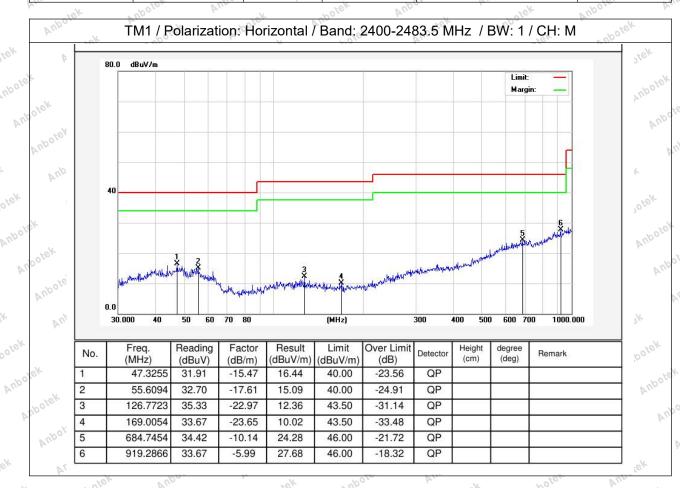




#### 11.3. Test Data

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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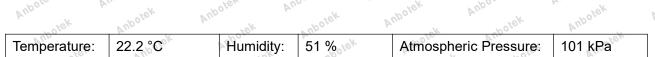


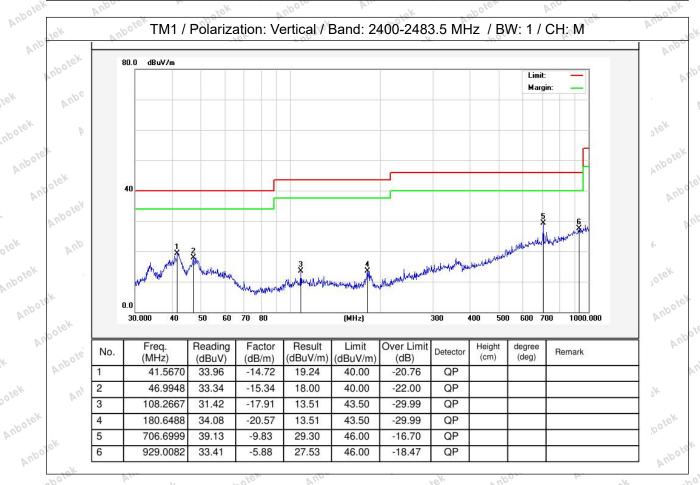




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Note:Only record the worst data in the report.







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

Aup	In addition, radiated emissi	ons which fall in the restricted ba	ands, as defined
Test Requirement:		omply with the radiated emission	limits specified
abolek	in § 15.209(a)(see § 15.205	5(c)). hotel	upolek Aug
"upole VIII	Frequency (MHz)	Field strength	Measurement
Anbotek Anbot	Aupotek Aupote.	(microvolts/meter)	distance (meters)
abolek Anbo	0.009-0.490	2400/F(kHz)	300
Vi.	0.490-1.705	24000/F(kHz)	30
Aupor	1.705-30.0	30 And	30
abotek	30-88	100 **	310K And
ole. Yun	88-216	150 **	3
otek Anbore	216-960	200 **	3,000
Test Limit:	Above 960	500 Apoter And	3 motek
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	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-p90 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 emised and on measurements employing	470-806 MHz. ed under other eand edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M	-10	otek Anboter
Procedure:	ANSI C63.10-2020 section	6.6.4	abotek Anbo
12.1. EUT Operatio	n Anbotek Anbo	Vuporek Vupor	A. Sporek P

## 12.1. EUT Operation

Operating Enviro	onment:	Polek	Aupo	r. Olek	Anbole.
Test mode:	1: TX-GFSK (Non-Hophopping) with GFSK m 2: TX-π/4-DQPSK (No (non-hopping) with π/4 3: TX-8DPSK (Non-Hopping) with 8DPSK	nodulation. n-Hopping): Keep DQPSK modulat pping): Keep the	the EUT ir	continuously to	ransmitting mode





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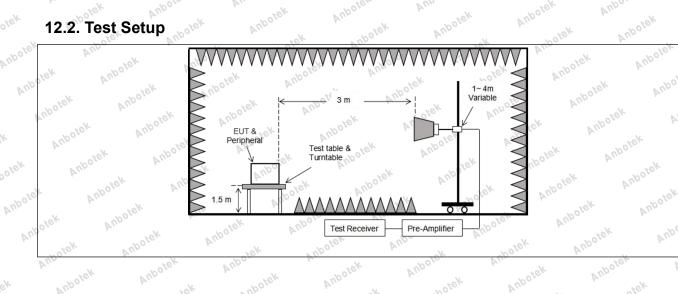
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## 12.2. Test Setup



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Report No.:1819C40009712501 Anbotek FCC ID: 2ATS9-8801E

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## 12.3. Test Data

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12.3. Test Data	Anbotek Lek	Anborek	Anbotek An	potek	Anborek
Temperature: 22.4 °C	Humidity:	50.1 %	Atmospheric Pre	essure:	101 kPa

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ek Anbore	A. Stek	Vupoles	Vien	k abotek	Anbo	, , , , , , , , , , , , , , , , , , ,
		•	ГМ1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	29.59	15.27	44.86	74.00	-29.14	Vertical
7206.00	30.34	18.09	48.43	74.00	-25.57	Vertical
9608.00	31.99	23.76	55.75	74.00	-18.25	Vertical
12010.00	* *	ick anbo	ich Aup	74.00	otek Aupo	Vertical
14412.00	potek * Aup		botek An	74.00	otek	Vertical
4804.00	29.76	15.27	45.03	74.00	-28.97	Horizontal
7206.00	31.41	18.09	49.50	74.00	-24.50	Horizontal
9608.00	29.27	23.76	53.03	74.00	-20.97	Horizontal
12010.00	*hpole	VIII	upolek	74.00	k apolek	Horizontal
14412.00	ek * nbole	k Aupor	ode 40.	74.00	Br.	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.97	15.27	34.24	54.00	-19.76	Vertical
7206.00	19.37	18.09	37.46	54.00	-16.54	Vertical
9608.00 <sup>60</sup>	21.01	23.76	44.77	54.00 NOO	-9.23	Vertical
12010.00	* Aug	184 201	olek Vup.	54.00	potek Ant	Vertical
14412.00	Opolek * Al	100, 14	polek l	54.00	rek	Vertical
4804.00	18.11	15.27	33.38	54.00	-20.62	Horizontal
7206.00	20.47	18.09	38.56	54.00	-15.44	Horizontal
9608.00	18.58	23.76	42.34	54.00	-11.66	Horizontal
12010.00	* * Whole.	Vu.	k nbotel	54.00	1000	Horizontal
14412.00	* *	ick Vupor	N	54.00	V. Villa	Horizontal

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	Anbotek A	_/E.,	V 112	Aupolek V.	7000	Anbotek
			TM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	otek 29.61 Mar	15.42	45.03	74.00 And	-28.97	Vertical N
7323.00	30.19	18.02	48.21	74.00	-25.79	Vertical
9764.00	31.00	23.80	54.80	74.00	-19.20	Vertical
12205.00	Aupo*	Vun	*upolek	74.00	botek	Vertical
14646.00	* Upolek	Aupore	Polek	74.00	Vick	Vertical
4882.00	29.46	15.42	44.88	74.00	-29.12	Horizontal
7323.00	31.40	18.02	49.42	74.00	-24.58 And	Horizontal
9764.00	28.97 And	23.80	52.77	74.00	-21.23	Horizontal
12205.00	"olek*	Anbole. A	un 16k	74.00	Aupo	Horizontal
14646.00	Yun *	upotek	Aupore	74.00	Anborok	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.70	otek 15.42 knb	34.12	54.00	-19.88	Vertical
7323.00	19.47	18.02	37.49	54.00	-16.51	Vertical
9764.00	20.87	23.80	44.67	54.00	-9.33	Vertical
12205.00	*otek	Anboren	V. Otek	54.00	And	Vertical
14646.00	* Nek	Anbolek	Vup.	54.00	Aupor	Vertical
4882.00	18.02	15.42	33.44	54.00	-20.56 vole	Horizontal
7323.00	20.03 nbo	18.02	38.05	54.00	-15.95	Horizontal
9764.00	19.09	23.80	42.89	54.00	-11.11	Horizontal
12205.00	*	abolek	Aupor	54.00	Aupolek	Horizontal
14646.00	Aupor*	VI.	Aupolek	54.00	pupotek	Horizontal

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"Olek	YUD.	tek	anbo.	b.	Pole.	Alle
		•	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	29.88	15.58	45.46	74.00 M	-28.54	Vertical
7440.00	30.20	17.93	48.13	74.00	-25.87	Vertical
9920.00	31.55	23.83	55.38	74.00	-18.62	Vertical
12400.00	100 kg/k	Aupo	"Otek	74.00	Vier	Vertical
14880.00	* 016K	<b>Auporek</b>	Yun Ick	74.00	Anbore	Vertical
4960.00	29.53	15.58	45.11	74.00	-28.89	Horizontal
7440.00	31.43	17.93	49.36	74.00	-24.64	Horizontal
9920.00	29.65	23.83	53.48	74.00 M	-20.52	Horizontal
12400.00	*	abolek A	Upor K	74.00	Aupolo. A	Horizontal
14880.00	Aupoto *	W. Olek	Vupolek	74.00	, upotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	19.82	15.58	35.40 And	54.00	-18.60 kg	Vertical
7440.00	20.48	17.93	38.41	54.00	-15.59	Vertical
9920.00	21.42	23.83	45.25	54.00	-8.75	Vertical
12400.00	Aug *	abotek	Aupo	54.00	Aupore.	Vertical
14880.00	Vulto.	hotek	Aupole.	54.00	Vupo, ek	Vertical
4960.00	19.46	15.58	35.04	54.00	-18.96	Horizontal
7440.00	21.40	17.93	39.33	54.00 Anbol	-14.67	Horizontal
9920.00	18.99	23.83	42.82	54.00	10010 -11.18 AM	Horizontal
12400.00	upole* * A	16k	nbotek	54.00	polek	Horizontal
14880 00	*	Vupo.	Ya,	54 00	VII.	Horizontal

#### Remark:

- 1. Result =Reading + Factor
- Test frequency are from 1GHz to 25GHz, "\*" 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.





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## APPENDIX I -- TEST SETUP PHOTOGRAPH

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Please refer to separated files Appendix I -- Test Setup Photograph RF

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#### 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

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