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Report No.:1812C40069512501 FCC ID:2AOV6-HP479

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Anbotel FCC Test Report

Applicant

Shenzhen Minsuo Industrial Co.,Ltd.

Anbotek

Address

Product Name

12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, Guangdong, China

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TURE WIRELESS STEREO EARBUDS WITH LED CHARGING CASE

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Report Date

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Sept. 24, 2024

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Compliance Laboratory

Shenzhen Anbotek Compliance Laboratory Limited

Anbotek

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Fechnology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, 💥 Email: service@anbotek.com Tel:(86)0755-26066440







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Report No.:1812C40069512501 FCC ID:2AOV6-HP479

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TEST REPORT

Applicant

Manufacturer

Product Name

Model No.

Trade Mark

Rating(s)

Shenzhen Minsuo Industrial Co.,Ltd.

Shenzhen Minsuo Industrial Co., Ltd.

TURE WIRELESS STEREO EARBUDS WITH LED CHARGING CASE

HP-479, INV01001

;≫ N/A

Case Input: 5V- 1A(with DC 3.7V, 200mAh Battery inside) Single Earphone Input: DC 3.7V, 30mAh Battery inside

Test Standard(s)

47 CFR Part 15.247 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:

Date of Test:

Prepared By:

Sept. 06, 2024

Sept. 06, 2024 to Sept. 19, 2024

Nian Xiu Chen

(Nianxiu Chen)

Idward pan

Approved & Authorized Signer:

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

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Report No.:1812C40069512501 FCC ID:2AOV6-HP479

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1. General Information

1.1. Client Information

Applicant	: Shenzhen Minsuo Industrial Co.,Ltd.
Address	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, Guangdong, China
Manufacturer	: Shenzhen Minsuo Industrial Co.,Ltd.
Address	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, Guangdong, China
Factory	: Shenzhen Minsuo Industrial Co.,Ltd.
Address	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, Guangdong, China
1.2 Description	a of Dovice (EUT) sobolet And to solet And

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1.2. Description of Device (EUT)

Ali	And tek photo the polo	P.
Product Name	TURE WIRELESS STEREO EARBUDS WITH LED CHARGING CASE	ſ
Model No.	HP-479, INV01001 (Note: All samples are the same except the model number, so we prepare "HP-479" for test only.)	e ^V
Trade Mark	N/A Anbotek Anbotek Anbotek Anbotek Anbotek	
Test Power Supply	AC 120V/60Hz for Adapter/ DC 3.7V Battery inside	100
Test Sample No.	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	Ant
Adapter	N/A Anbote And Anbotek Anbotek Anbotek Anbotek	
RF Specification		
Operation Frequency	2402MHz to 2480MHz	1ex
Number of Channel	79 hoter And Lotek Andorek Andor tek ubotek A	'upor
Modulation Type	GFSK, π/4 DQPSK	PL
Antenna Type	PCB Antenna	
Antenna Gain(Peak)	o-0.58dBi Anbotek Anbotek Anbotek Anbotek	6
(2) For a more detaileUser's Manual.(3) The EUT consists	ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the two parts, the left and right earphone, both have been tested and only the	otek Antoo

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test data of right earphone recorded in this report.

Shenzhen Anbotek Compliance Laboratory Limited

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1.3. Auxiliary Equipment Used During Test

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Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J

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1.4. Operation channel list

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Operation Band:

Operation B	and: poter	Anbo	botek	Aupor	P	ek An	Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
⁹¹ 00/10	2402	20	10010 ¹ 2422	40	2442	Ano 60	2462
× 1	oo ^{tek} 2403 Ant	21	2423	Anbote1	2443	61ºtek	2463
1.eK2	2404	Anbo 22	2424	A2	2444	62 Anbot	2464
3.4	2405	23	2425	43 note	2445	10K 63	o ^{otek} 2465 ^{Mit}
Anbota tek	2406	24 ^{//010/}	2426	ok 44 Ant	2446	64	2466
5	2407 nbot	× 25 Anb	2427	bote 45	2447	65	2467
6 Anbo	2408	pote ^k 26	2428	46	2448	And 66 tek	2468
^{ek} 7 ^k	2409	27	2429	Am 47 tek	2449	67	2469 not
bole8	2410	28	2430	48	× 2450 000	68 Anbc	2470
Ant9tek	2411	29 01e	2431	49	oter 2451 Ant	o ^{tek} 69	2471
10 notek	2412	30	otek 2432 Auto	50 An	2452	Anbot 70	2472
11	2413 Mnb ⁰	31	2433	n ^{bote} 51	2453	Ang 1 ok	2473
12	2414 N	32	2434	52	2454	72, botek	2474
13	2415	Anto 33	2435	53°°'	2455	× 73 no	1 ^{ck} 2475 Anbo
14 NK	2416	34	2436	54 Anbo	2456	, 14 North 14	2476
15	2417 otek	35 Anbolt	2437	otek 55 N	100 ¹⁰¹ 2457	75	2477
16 ^{.nbote}	2418	ie ^k 36 Mi	2438	56	2458	Anborre Tek	2478
17 An ^b	2419	010'37	2439	57.ek	2459	77	2479
o ^{tek} 18	2420	38	2440	58	2460	78 ^{,nbots}	2480
nb 19	2421	39 otek	2441 ⁰¹⁰¹	59	2461 00	ek - Aul	10

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1.5. Description of Test Modes

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Pretest Modes	Descriptions
AnboTM1 Anbot	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
otek AND AND	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
Anbolek TM3	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anbotek TM4 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.

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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB hootek Anbore An abotek A
Occupied Bandwidth	925Hz hove And borek
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Dwell Time	2% tek Anbote Anbote Antonio
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	10 3.53dB And Lek Anderek Ander
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

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level using a coverage factor of k=2.

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Antenna requirement	K notek	00
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Conducted Emission at AC power line	Mode1,2 Mode1	P ^{nbo}
Occupied Bandwidth	Mode1,2	F P And
Maximum Conducted Output Power	Mode1,2	p ^{otek} P
Channel Separation	Mode3,4	AnboteP
Number of Hopping Frequencies	Mode3,4	AnBrek
Dwell Time And	Mode3,4	PAnbole
Emissions in non-restricted frequency bands	Mode1,2,3,4	
Band edge emissions (Radiated)	Mode1,2	Notek P
Emissions in frequency bands (below 1GHz)	Mode1,2	ND NOVER
Emissions in frequency bands (above 1GHz)	Mode1,2	Ant P tek

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Report No.:1812C40069512501 FCC ID:2AOV6-HP479

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

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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

- 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.
 - 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.

Shenzhen Anbotek Compliance Laboratory Limited

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1.10.	Test Equipment	List	Anbotek
Cond	ucted Emission at A	C power line	Anboten
Item	Equipment	Manufacturer	Model No.
1	L.I.S.N. Artificial	Dobdo & Sobworz	

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al Rohde & Schwarz /- k CYBERTEK k Farad Technology	EM5040DT E2	100055 215040D T001	2024-01-18 2024-01-17	2025-01-17 2025-01-16
CYBERTEK	EM5040D1	°T001	2024-01-17	2025-01-16
e Farad Technology	ANB-03A	NOTE:		P.
	Ano	N/A	An	Antogreek
ver Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11
anboten Anto	at abover	Aupon		tek Aupore
Output Power requencies	nbotek Anbotel	k Ant	1 C V V	nbotek Antro
ricted frequency bands	Anbotek Ant	Anbotek	Anbotek	Ano
Manufacturer	Model No. S	erial No.	Last Cal.	Cal.Due Date
ZHONGJIAN	ZJ- KHWS80B	N/A Anbor	2023-10-16	2024-10-15
ply IVYTECH	IV3605	804D360 510	2023-10-20	2024-10-19
Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
	N9020A	Y505318 23	2024-02-22	2025-02-21
KEYSIGHT			to Vur	2024 10 14
KEYSIGHT	MDO3012 C	020298	2023-10-12	2024-10-11
Tektronix	N5182A M		2023-10-12 2024-02-04	2024-10-11
e to	tor Agilent	tor Agilent N5182A M	tor Agilent N51820 MY474206	tor Agilent N5182A MY474206 2024-02-04

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Anbotek Report No.:1812C40069512501 Anbotek FCC ID:2AOV6-HP479 Anbote

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	edge emissions (Ra sions in frequency ba		Aupoten A	nbotek	Anbotek	Anbo	An
ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
<u></u> ∦1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	ŀ
°°58€	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	otek
3,bot	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15	Lupo,
4 _P	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbore	Amanboliek	P
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11	
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	the set
10010 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	0 CC
AUD	k notek	Anbo	Nek	Anbore	An	aboten	Pup.

Emis	sions in frequency ba	And	Anbotek	Anbor	n botek	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
otet	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2 tel	Pre-amplifier	SONOMA	310N ¹⁰⁰	186860	2024-01-17	2025-01-16
3 Anto	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
e [*] 5	EMI Test Software EZ-EMC	NDOVEK SHURPLE	N/A	N/Apotek	Aupor	ek Anbotek
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nbotel 2. Antenna requirement

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otek	2. Antenna requ	uirement	Anbolek	Anborotek	Anbotek	Anbote.
Anbotek	Test Requirement:	Refer to 47 CFR F ensure that no and shall be used with	tenna other tha	n that furnishe	d by the respo	nsible party
Anb	nbotek Anbotek	of an antenna that considered sufficie				

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2.1. Conclusion

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The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is -0.58dBi. It complies with the standard requirement. Anbotek Anbote AND

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nbotel 3. Conducted Emission at AC power line

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Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the radiator back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 μ H/50 ohms (LISN).	hat is designed to be con adio frequency voltage that y frequency or frequencie exceed the limits in the fo	nected to the it is conducted s, within the ollowing table, as		
hotek Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)	Anbor		
Ano	otek Anbo	Quasi-peak	Average wover		
KAn	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5 AM above	56 And	46 Anbo		
otek Anbo	5-30 K Andrew Andrew	00 Mar 19	50		
stek Anbolek	*Decreases with the logarithm of the frequency.				
Test Method:	ANSI C63.10-2020 section 6.2	Anboten And Akek	Anbolek		
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-		

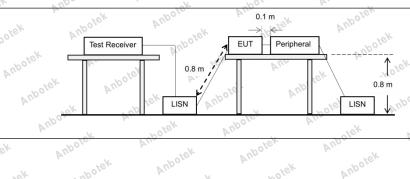
3.1. EUT Operation

Operating Environment:

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Operating Env	ronment:	ek abotek	Anboten	Pur Polek	Anbotek	Anbo
Test mode:	hopping) with 2: TX-π/4-DQ	Non-Hopping): Ke GFSK modulation PSK (Non-Hoppin with π/4 DQPSK	g): Keep the E	tek Anboro	Bu.	. ex-
3.2. Test Set		nbotek	Anbo	botek	Anbore	Am

3.2. Test Setup AUD



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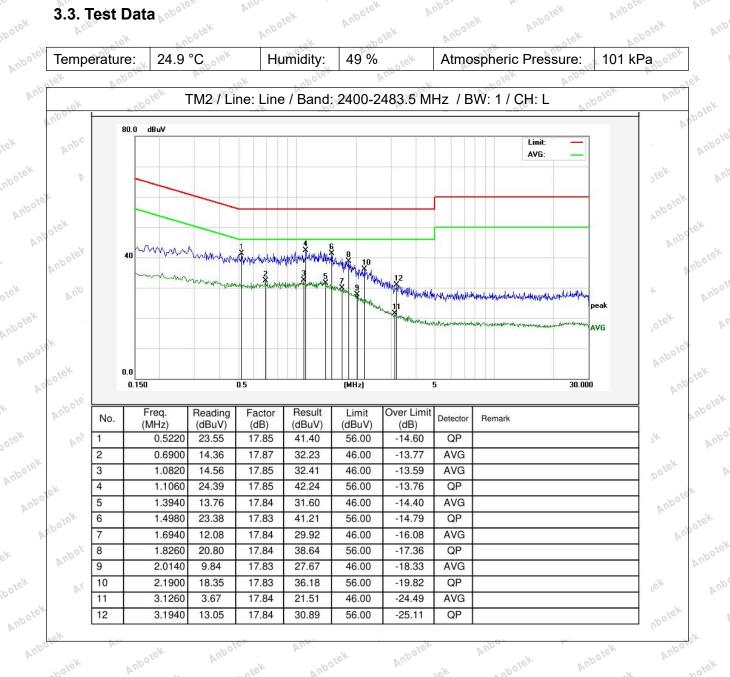
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3.3. Test Data



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Report No.:1812C40069512501 FCC ID:2AOV6-HP479

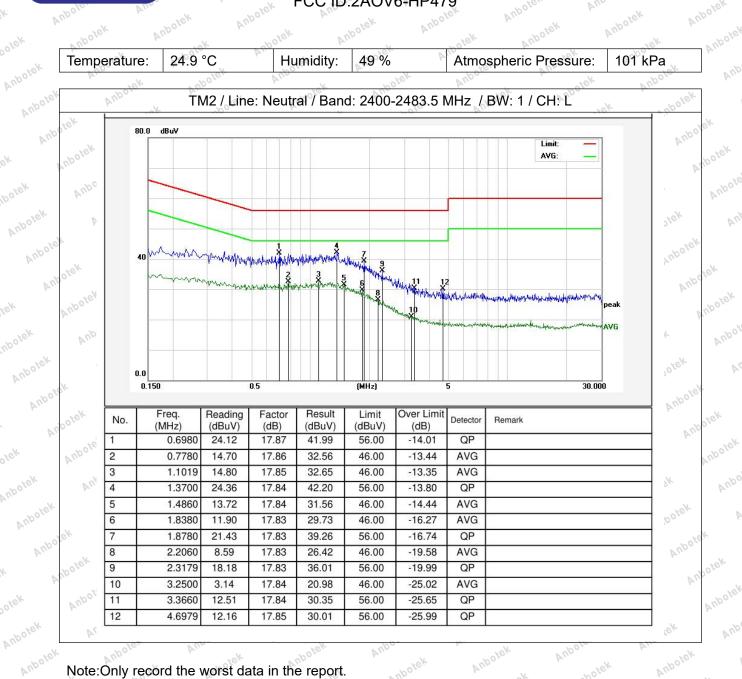
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Note:Only record the worst data in the report.

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Anbotek 4. Occupied Bandwidth

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

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Report No.:1812C40069512501 Anbotek FCC ID:2AOV6-HP479 Anbot

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4.1. EUT Operati	on Anbore	Anbotek	Anboten	Ano	Anbotek	Anbor
Operating Environm	ent:	sk Anboten	And	abotek	Anbor	
Test mode: hop 2: 7	ΓX-GFSK (Non-Hopp oping) with GFSK mo ΓX-π/4-DQPSK (Non n-hopping) with π/4 I	dulation. -Hopping): Keep	the EUT in con	ter And		tek Nootek
4.2. Test Setup	otek Anbotek	Anboten	Anotek	Anbotek	Anbortek	Anbotek

4.2. Test Setup

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т		Spectrum Analyzer
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4.3. Test Data

4.3. Test Da	ta Anbr	nbotek A	nbotek	Anboten	Anbolek	Anbotek	Anbotek
Temperature:	23.1 °C	Humidity	r: 55 %	Atmo	spheric Pressu	re: 101 kPa	000
Please Refer t	o Appendix for	Detailspotek	Anborek	Anbo	otek Anbote	Anbore	AIII

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Please Refer to Appendix for Details. Anbote Anbotek

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5. Maximum Conducted Output Power

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Test Requirement:	47 CFR 15.247(b)(1)
Teşt Limit: Anbotek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbote	 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. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure:	 f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the
Anto Anbotek Anbotek Anbotek Anbot	emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in
k Anbotek An	the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum
Lotek Anboten	analyzer.

5.1. EUT Operation

Operating Environment:

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Operating Envir	ronment:	A. abotek	Anbole	Am	Anbotek	Ano
Test mode:	hopping) wit 2: TX-π/4-D	h GFSK modu QPSK (Non-H	g): Keep the EL Jation. Jopping): Keep QPSK modulatio	the EUT in co	oto. Ann	your you
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otek	Anboten	9	100° W.	abole.	Þ1

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5.3. Test Data

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5.3. Test Dat	anolek	Anbotek Anbo	Inpotek A	Anbotek An	poter An	Anbotek	P
Temperature:	23.1 °C	Humidity:	55 %	Atmospher	ic Pressure:	101 kPa	
Please Refer to	Appendix 1	for Details.	A. Anbotek	Anboten	And	Anbore	yek Yek

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6. Channel Separation

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Test Requirement: 47 CFR 15.247(a)(1) Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. Test Method: ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02 The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.	6. Channel Sepa	ration Anbotek Anbotek Anbotek Anbotek Anbotek
Test Limit:hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.Test Method:ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.BW. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be	Test Requirement:	47 CFR 15.247(a)(1)
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be	ek Anbolek Anbolek Test Limit: Anbolek Anbolek Anbolek Anbolek Anbolek	hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no
spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be	Test Method:	
e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be	nbotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbote	 spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be	Procedure:	e) Detector function: Peak.f) Trace: Max-hold.g) Allow the trace to stabilize.
	Anborek Anborek Anbor	peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be

6.1. EUT Operation

	6.1. EUT Ope		-tek	Anboten	And	abotek	Anbu	V
A	Operating Envir	onment:	Aupo	abolek	Anboro	A	Anboter	Pur
ibotek	Test mode:	with GFSk 4: TX-π/4-	(modulation DQPSK (Ho	i, Anbo	UT in continuo the EUT in cor tion.	ek nbore	Run .	. No.
VII.	V oter	AND		18K	vupor P	, A	bote.	Pur

6.2. Test Setup

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, eY	6.3. Test	Data	born	Anbotek	Anbotentek	Ansanbotek	Anbotek	Anbo abol	lok.
~0	Temperatu	re: 23.1	°C ^{nu}	Humidity:	55 % Andor	Atmospheri	c Pressure:	101 kPa	to kek

~	Temperature:	23.1 °	C ^{nv} tek	Humidity:	55 % M ⁰⁰	1	Atmospheric Pressure:	101 kPa	 C
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7. Number of Hopping Frequencies

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Test Requirement:	47 CFR 15.247(a)(1)(iii)
Anbotek Anbotek Anbotek Anbotek Anbotek	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.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
otek Anbole Anbolek Anbolek Anbolek Anbolek Anbolek Anbole	 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
Andore: Andore: An pole Andore: Andorek Andorek Andorek	 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. f) Trace: Max-hold. g) Allow the trace to stabilize.
Anbotek Anbotek M7.1. EUT Operation	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

tek.	Operating Envir	onment:	Anbotek	Anb		tek Anb	24 Pr.	hotek p
nbotek	Test mode:	with GFSK 4: TX-π/4-D	modulation, QPSK (Ho	,. pping): Keep	the EUT in	nbo	mitting mode (transmitting n	Anbolo
PIL	tek Aupoler	(hopping) w	ith π/4 DQF	PSK modulat	ion.	W. Nofek	Anbore.	Ann
VUD.	7.2. Test Setu	idna di	07- P	botek	Anboten	Ann	K Anbotek	Anbo

7.2. Test Setup

1	Anbotek A	nbotek	EUT		Spectrum A	Analyzer	iek p	Inbotek
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ote	7.3. Test Data	Anbotek	Anboro	Yek.	Amotek	Anboten	K and abotek	Anbo

0)	Temperature:	23.1 °C Anbover	Humidity:	55 % mbote	Atmospheric Pressure:	101 kPa 🔊
	-16. VA		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			

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8. Dwell Time

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Test Requirement:	47 CFR 15.247(a)(1)(iii)
k holek	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-
ien Ano	2483.5 MHz band shall use at least 15 channels. The average time of
atek Anboter	occupancy on any channel shall not be greater than 0.4 seconds within a
Test Limit:	period of 0.4 seconds multiplied by the number of hopping channels
anboten And	employed. Frequency hopping systems may avoid or suppress
A. Anbot	transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
And	ANSI C63.10-2020, section 7.8.4
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
who who have	The dwell time per hop on a channel is the time from the start of the first
he. Aur	transmission to the end of the last transmission for that hop. If the device ha
Lotek Anbore	a single transmission per hop then the dwell time is the duration of that
And K botek	transmission. If the device has a multiple transmissions per hop then the
Anboten And	dwell time is measured from the start of the first transmission to the end of
botek Anbo	the last transmission.
Anv	botek Andor h sotek Andote Attraction notek
K Anbote. A	The time of occupancy is the total time that the device dwells on a channel
k hotek	over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to
oten Anu	measure both the dwell time per hop and the number of times the device
stek Anbore.	transmits on a specific channel in a given period.
Anbo k hotek	Anboren a openine enamen in a groten period And
Anboten And	The EUT shall have its hopping function enabled. Compliance with the
h. atek Anb	requirements shall be made with the minimum and with the maximum
And	number of channels enabled. If the dwell time per channel does not vary wit
K upoter 1	the number of channels than compliance with the requirements may be
k hotek	based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel
poten And	for 1, 3 or 5 time slots) then measurements can be limited to the longest
Procedure:	dwell time with the minimum number of channels.
And ak shotel	Anboy h stek whote Any sk spoten
Anbots. Ans	Use the following spectrum analyzer settings to determine the dwell time pe
hotek Ant	Thop: An atek Anboten And tek abotek Anbo
Ann	a) Span: Zero span, contered on a hopping channel
ek Anbore	a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be
w hotek	set $>> 1 / T$, where T is the expected transmission time per hop.
pore. And	c) Sweep time: Set so that the start of the first transmission and end of the
botek Anbote	last transmission for the hop are clearly captured. Setting the sweep time to
Anu-	be slightly longer than the hopping period per channel (hopping period =
Anboter Ano	1/hopping rate) should achieve this.
- otek An	d) Use a video trigger, where possible with a trigger delay, so that the start of
Ano	the transmission is clearly observed. The trigger level might need adjustment to reduce the change of triggering when the system here on an adjustment
tek Anboter	to reduce the chance of triggering when the system hops on an adjacent channel.
, notek	e) Detector function: Peak.
nboten Anb	f) Trace: Clear-write, single sweep.
atek Anboten	g) Place markers at the start of the first transmission on the channel and at
Anbur	the end of the last transmission. The dwell time per hop is the time between

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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

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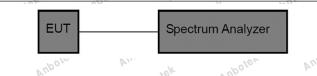
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Operating Envi	ronment:	Anboro	Am	Anboten	Ano	·
Test mode:	3: TX-GFSK (Ho with GFSK modu 4: TX-π/4-DQPS (hopping) with π	ulation,. K (Hopping): Ke	ep the EUT in c	And	de Her	otek

8.2. Test Setup



8.3. Test Data

Temperature:	23.1 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa otek
Temperature			00,10,00,0	, and opphone in recourse.	

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9. Emissions in non-restricted frequency bands

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Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek	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
_Anbote. And	either an RF conducted or a radiated measurement, provided the transmitter
Test Limit:	demonstrates compliance with the peak conducted power limits. If the
All. stek Anb	transmitter complies with the conducted power limits based on the use of
iek Anbo	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
otek Anborer	instead of 20 dB. Attenuation below the general limits specified in §
no lek abolek	15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7
Test Method.	KDB 558074 D01 15.247 Meas Guidance v05r02
botek Anbote	7.8.7.1 General considerations
An. tek of	To demonstrate compliance with the relative out-of-band emissions
orak Anbor Ar	requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers.
stek subotek	Frequency hopping shall be disabled for this test with the exception of
Anover A. Lotek	measurements at the allocated band-edges which shall be repeated with
Anboten Anot	hopping enabled. And the state And the state of the state
botek Anbote	Connect the primary antenna port through an attenuator to the spectrum
And set about	analyzer input; in the results, account for all losses between the unlicensed
K Anbore Am	wireless device output and the spectrum analyzer. The frequency range of
et spotek An	testing shall span 30 MHz to 10 times the operating frequency and this may
por An utek	be done in a single sweep or, to aid resolution, across a number of sweeps.
hotek Anb	The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
A. Lotek Anbote.	boupied sweep time with a peak actediate.
And set abotek	The limit is based on the highest in-band level across all channels measured
Procedure:	using the same instrument settings (resolution bandwidth of 100 kHz, video
ek abotek Anbo	bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the
A''' atek a	required offset (typically 20 dB) below the highest in-band level. Where the
botek Anbo	highest in-band level is not clearly identified in the out-of-band
votek Anboter	measurements a separate spectral plot showing the in-band level shall be
knov ok botek	provided. And the Andrew Andre
Anbote. And Let	When conducted measurements cannot be made (for example a device with
abolek Anbore	integrated, non-removable antenna) radiated measurements shall be used.
An-	The reference level for determining the limit shall be established by
ter Aupor Ar	maximizing the field strength from the highest power channel and measuring
tek hobolek	using the resolution and video bandwidth settings and peak detector as
nto. A. otek	described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB)
Anboten Anbo	below the highest in-band level. Radiated measurements will follow the
hotek Anboten	standards measurement procedures described in Clause 6 with the
NUD-	exception that the resolution bandwidth shall be 100 kHz, video bandwidth

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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

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11.	Operating Envir	onment: And bolek Anbole And Andrew Andrew Andrew And
	Anbornotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- hopping) with GFSK modulation.
,	- Anbotek	2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
25	Test mode:	3: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation.
20	ootek Anbot	4: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.

9.2. Test Setup

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### 9.3. Test Data

Temperature:	23.1 °C	Humidity	55 %	b	Atmospheric Pressur	re: 101 kPa
No.	10 ¹⁻¹	<i>b</i>	. Nor	0	In Sk	00

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Test Requirement:	restricted bands, as define	), In addition, radiated emissions d in § 15.205(a), must also comp pecified in § 15.209(a)(see § 15.2	ly with the
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurem distance (meters)
Anbors Ar	0.009-0.490	2400/F(kHz)	300
hotek Anbo	0.490-1.705	24000/F(kHz)	30 And
Anv	1.705-30.0	30× Anbole An	30
ek anboten Ar	30-88	100 **	3
h atek	88-216	150 **	3 tek
wotek Anbo	216-960	200 **	3
n ak abotek	Above 960	500	3 10010
Anbote Ann Anbotek Anbo tek Anbotek A nbotek Anbotek A	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	ting under this section shall not b Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permit §§ 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on peak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	470-806 MH ed under ot pand edges. measureme uency band sion limits in
Anboten Ant	detector.	tek nbore	b.

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# 10.1. EUT Operation

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Anbo	stek Anbots	otek An	botek A	nboten	Ano-	Anbotek	Anborotek	Anbotek	

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#### Report No.:1812C40069512501 Anbotek FCC ID:2AOV6-HP479

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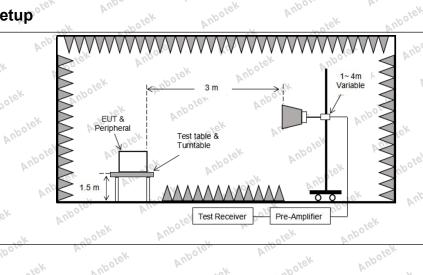
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nbotek 10.2. Test Setup

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# Anbotek Shenzhen Anbotek Compliance Laboratory Limited

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,botek Hotline 6 400-003-0500 www.anbotek.com

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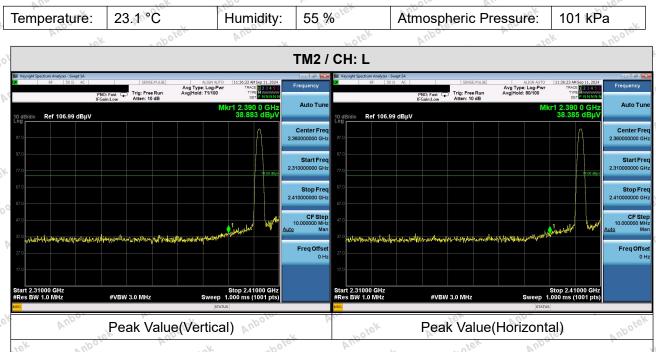
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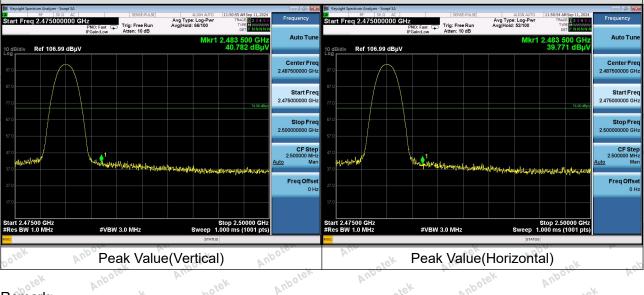
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# 10.3. Test Data



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### Remark:

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1. During the test, pre-scan all modes, the report only record the worse case mode.

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2. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable. Anbote Anbotek Anbotek Anbotek

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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, 💉 Email: service@anbotek.com Tel:(86)0755-26066440

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Frequency (MHz)Field strength (microvolts/meter)Measureme distance (meters)0.009-0.4902400/F(kHz)3000.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** 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 limits shown in the above table are based on measuremen 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 KDB 558074 D01 15.247 Meas Guidance v05r02	Test Requirement:	restricted bands, as define	l), In addition, radiated emissio ed in § 15.205(a), must also co pecified in § 15.209(a)(see § 1	mply with the
Test Limit:       0.490-1.705       24000/F(kHz)       30         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 limits shown in the above table are based on measuremen 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.	Anbotek Anbotek	Frequency (MHz)		
Test Limit:       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 measuremen 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 Mathed:       ANSI C63.10-2020 section 6.6.4	Anbor	0.009-0.490	2400/F(kHz)	300
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 other 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 measuremen 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 Mathed:       ANSI C63.10-2020 section 6.6.4	abotek Anb			
Test Limit:       88-216       150 **       3         Above 960       200 **       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 measuremen 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 Mathed:       ANSI C63.10-2020 section 6.6.4	A.r.			10.
Test Limit: $             \frac{216-960}{\text{Above 960}}             \frac{200 **}{500}             \frac{3}{3}             \frac{4}{\text{Above 960}}             \frac{3}{500}             \frac{3}{3}             \frac{1}{3}             \frac{1}{3}            $	ek Anbor			
Above 9605003Test Limit:Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in th 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 measuremen 	k holek			
Test Limit:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in th 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 measuremen 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 Mathed:ANSI C63.10-2020 section 6.6.4	hoter And			
<ul> <li>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.</li> <li>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measuremen 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.</li> </ul>	stek Anbote.	Above 960	500	3 nbor
The emission limits shown in the above table are based on measuremen 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.Text Mathed:ANSI C63.10-2020 section 6.6.4	Anbotek Anbote Anbotek Anbote	intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g.,	ating under this section shall no Hz, 76-88 MHz, 174-216 MHz these frequency bands is perr §§ 15.231 and 15.241.	ot be located in th or 470-806 MHz mitted under othe
detector. Test Method: ANSI C63.10-2020 section 6.6.4	npotek Anbotek	The emission limits showr employing a CISPR quasi	n in the above table are based -peak detector except for the f	on measuremen requency bands
	Anbotek Anbot	- D.V.	sed on measurements employi	ng an average
	Test Method:			potek Anboic

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

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# 11.1. EUT Operation

Pr-	Operating Envir	ronment:	ek Anboten	And	s nbotek	Anbo	-x	1ex
lek nbotek	Test mode:	1: TX-GFSK (Non hopping) with GFS 2: TX-π/4-DQPSk (non-hopping) with	SK modulation. ( (Non-Hopping):	Keep the EUT	oter Ano		Lotek A	nbo
Anbo	stek Aupor	tek Anbotek	Anboten	And	Anbolek	Anbo	Anbotek	

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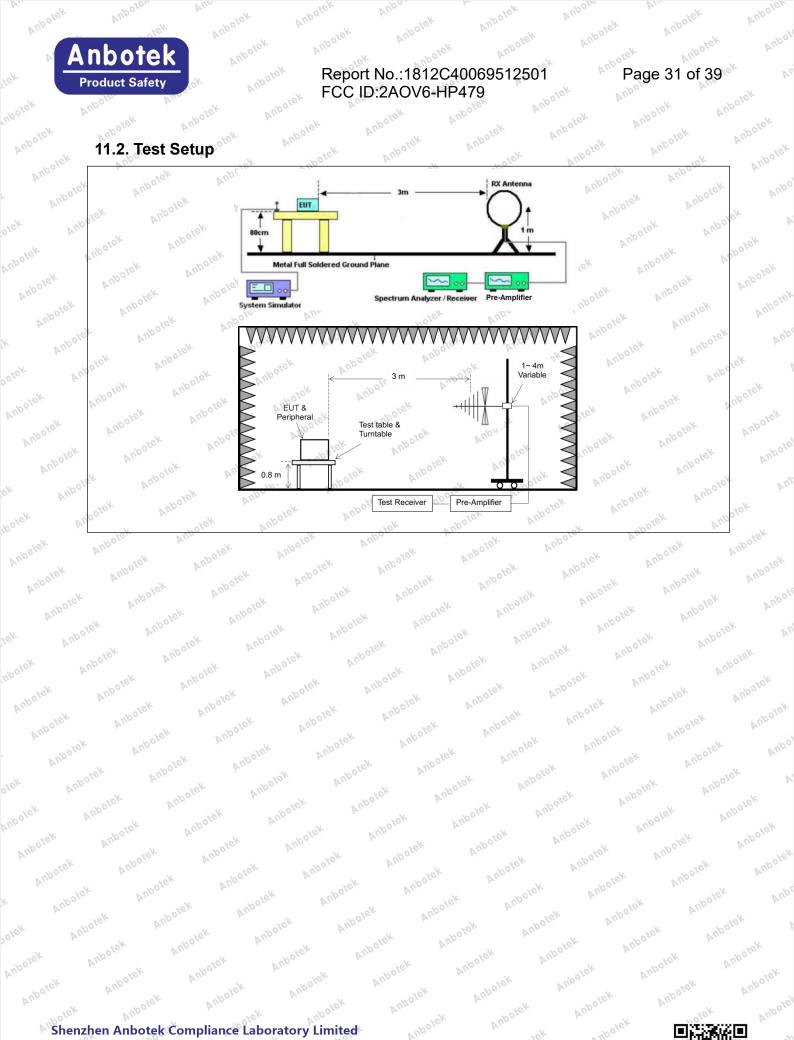
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#### Report No.:1812C40069512501 FCC ID:2AOV6-HP479

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# 11.3. Test Data

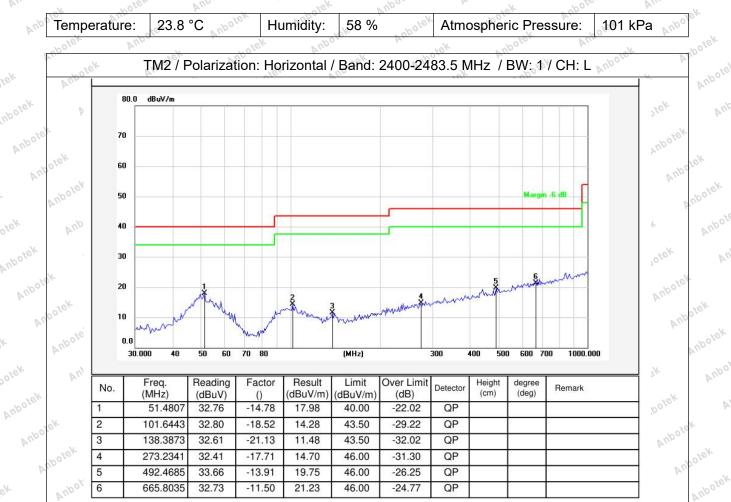
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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### Report No.:1812C40069512501 FCC ID:2AOV6-HP479

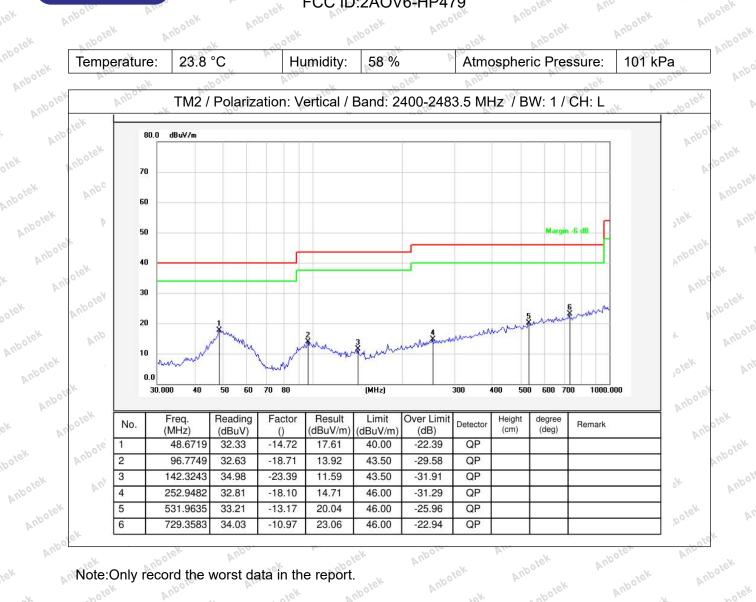
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Note:Only record the worst data in the report. Anbotek Anbotel

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In § 15.209(a)(see § 15.205(c)).Frequency (MHz)Field strength (microvolts/meter)Measu (microvolts/meter)0.009-0.4902400/F(kHz)3000.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions fror intentional radiators operating under this section shall not be locate frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted unde sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edu The emission table above, the tighter limit applies at the band edu The emission limits shown in the above table are based on measur employing a CISPR quasi-peak detector except for the frequency b 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	Test Requirement:in § 15.205(a), must also comply with the radiated et in § 15.209(a)(see § 15.205(c)).`Frequency (MHz)Field strength (microvolts/meter)0.009-0.4902400/F(kHz)0.490-1.70524000/F(kHz)1.705-30.03030-88100 **88-216150 **216-960200 **Above 960500** Except as provided in paragraph (g), fundamenta intentional radiators operating under this section shi frequency bands 54-72 MHz, 76-88 MHz, 174-216 I However, operation within these frequency bands is sections of this part, e.g., §§ 15.231 and 15.241. In the emission limits shown in the above table are ba employing a CISPR quasi-peak detector except for 90 kHz, 110-490 kHz and above 1000 MHz. Radiat these three bands are based on measurements em detector.Test Mathad:ANSI C63.10-2020 section 6.6.4			
Image: Test Method:(microvolts/meter)distant (meter)0.009-0.4902400/F(kHz)3000.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be locate frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241.In the emission table above, the tighter limit applies at the band edu The emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency b90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	hek Anbote.	Frequency (MHz)Field strength (microvolts/meter)Measurement distance (meters)0.009-0.4902400/F(kHz)3000.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** 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 other 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 measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 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 KDB 558074 D01 15.247 Meas Guidance v05r02ANSI C63.10-2020 section 6.6.4		
Test Limit:0.009-0.4902400/F(kHz)3000.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions fror intentional radiators operating under this section shall not be locate frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted unde sections of this part, e.g., §§ 15.231 and 15.241. In the emission limits shown in the above table are based on measur employing a CISPR quasi-peak detector except for the frequency b 90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	Anbotek Anbotek	Frequency (MHz)		distance
Test Limit:1.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241. In the emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency b 90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	Anbore An	0.009-0.490	2400/F(kHz)	300
Jest Limit:30-88100 **3Test Limit:30-88150 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241. In the emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency b 90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	abotek Anbo	0.490-1.705	24000/F(kHz)	30 And
Test Limit:88-216150 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edu The emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency b 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	Au. Ok	1.705-30.0		30 Nool
Test Limit:216-960 Above 960200 ** 5003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edu The emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency b 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	Anbore A			-
Above 9605003Test Limit:Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edu The emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency b 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	k hotek			YSVY
Test Limit:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edu The emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency b 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limit these three bands are based on measurements employing an aver detector.Test Method:ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	oter And			
InterferenceDistributionDistributionDistributionDistributionDistributionintentional radiators operating under this section shall not be locatedfrequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806However, operation within these frequency bands is permitted undersections of this part, e.g., §§ 15.231 and 15.241.In the emission table above, the tighter limit applies at the band edgeThe emission limits shown in the above table are based on measureemploying a CISPR quasi-peak detector except for the frequency b90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limitthese three bands are based on measurements employing an averdetector.Test Method:ANSI C63.10-2020 section 6.6.4KDB 558074 D01 15.247 Meas Guidance v05r02	- stek Anbore.	Above 960	500	3,000
	Anbotek Anbotek Anbo ak Anbotek Anbotek botek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 MI However, operation within sections of this part, e.g., g In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020 section	Hz, 76-88 MHz, 174-216 MHz these frequency bands is perr §§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based peak detector except for the finabove 1000 MHz. Radiated en ed on measurements employing n 6.6.4	or 470-806 MHz. nitted under othe e band edges. on measurement requency bands § mission limits in
	Procedure	toor pr	NOVE NOV	abotek Anth
	er roocdurer	7.1101 000.10-2020 Section	TO.O.T	b

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

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# 12.1. EUT Operation

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Pr-	Operating Envir	ronment:	ek Anboten	And	s nbotek	Anbo	-x	1ex
lek nbotek	Test mode:	1: TX-GFSK (Non hopping) with GFS 2: TX-π/4-DQPSk (non-hopping) with	SK modulation. ( (Non-Hopping):	Keep the EUT	oter Ano		Lotek A	nbo
Anbo	stek Aupor	tek Anbotek	Anboten	And	Anbolek	Anbo	Anbotek	

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12.2. Test Setup

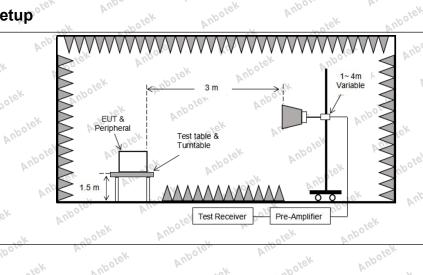
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# nbotet 12.3. Test Data

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Temperature:	23.8 °C	Humidity:	58 %	Atmospheric	Pressure: 1	l01 kPa
Ans	abover	And	hotek	Anbore	All	Anboth
			TM2 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarizatio
4804.00	30.86	15.27	46.13	74.00	-27.87	Vertical
7206.00	31.39	18.09	49.48	74.00	-24.52	Vertical
9608.00	33.48	23.76	57.24	74.00	-16.76	Vertical
12010.00	* 10010H	Aupor	-K NOK	74.00	Ant	Vertical
14412.00 ⁰⁰	*	otek Anbo	te. Ann	74.00	otek Anbu	Vertical
4804.00	n ^{o^{ten} 30.92 And}	15.27	46.19 N	74.00	-27.81	Horizonta
7206.00	32.94	18.09	51.03	74.00	-22.97	Horizonta
9608.00	29.82	23.76	53.58	74.00	-20.42	Horizonta
12010.00	And *	abotek	Anbo	74.00	Anboren	Horizonta
at abotek	Anboten	A. otek	Anbotek	PUR	k nbotek	Horizonta
Average value Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4804.00	20.24	15.27	35.51	54.00	-18.49	Vertical
7206.00	20.42	18.09	38.51	54.00	-15.49	Vertical
9608.00	22.50	23.76	46.26	54.00	-7.74	Vertical
12010.00	1000 × 400	sk Aupor	k pr	54.00 mot	e. Aun	Vertical
14412.00	* A1	otek Ant	oter Ann	54.00	botek Ant	Vertical
4804.00	19.27 M	15.27	34.54	54.00	-19.46	Horizonta
7206.00	22.00	18.09	40.09	54.00	-13.91	Horizonta
9608.00	19.13	23.76	42.89	54.00	+11.11	Horizonta
12010.00	PUX.	Anbolek	Anboten	54.00	Anbotek	Horizonta
14412.00	ek * Vupore	b.	ek Anbole	54.00		Horizonta

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TM2 / CH: M         TM2 / CH: M         Peak value:       Frequency (MHz)       Reading (dBuV)       Factor (dB/m)       Result (dBuV/m)       Limit Line (dBuV/m)       Over Limit (dB)       polariz         4882.00       30.88       15.42       46.30       74.00       -27.70       Verti         7323.00       31.24       18.02       49.26       74.00       -24.74       Verti         9764.00       32.49       23.80       56.29       74.00       -17.71       Verti	
TM2 / CH: M           Peak value:         Frequency (MHz)         Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit Line (dBuV/m)         Over Limit (dB)         polariz           4882.00         30.88         15.42         46.30         74.00         -27.70         Verti Verti           7323.00         31.24         18.02         49.26         74.00         -24.74         Verti	
Frequency (MHz)         Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit Line (dBuV/m)         Over Limit (dB)         polariz           4882.00         30.88         15.42         46.30         74.00         -27.70         Verti Verti           7323.00         31.24         18.02         49.26         74.00         -24.74         Verti	
(MHz)         (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)         polariz           4882.00         30.88         15.42         46.30         74.00         -27.70         Verti           7323.00         31.24         18.02         49.26         74.00         -24.74         Verti	
7323.00 31.24 18.02 49.26 74.00 -24.74 Verti	ation
	cal
9764.00 32.49 23.80 56.29 74.00 17.71 Vorti	cal 🕅
	cal
12205.00 * 74.00 Verti	çal
14646.00 * 74.00 Verti	cal
4882.00 30.62 15.42 46.04 74.00 -27.96 Horizo	ontal
7323.00 32.93 18.02 50.95 74.00 -23.05 Horizo	ontal
9764.00 29.52 23.80 53.32 74.00 -20.68 Horizo	ontal
12205.00 * * 74.00 Horizo	ontal
14646.00 * 74.00 Horizo	ontal
Average value:	
Frequency (MHz)Reading (dBuV)Factor (dB/m)Result (dBuV/m)Limit (dBuV/m)Over Limit (dBuV/m)polariz	ation
4882.00 19.97 15.42 35.39 54.00 -18.61 Verti	calnb
7323.00 20.52 18.02 38.54 54.00 -15.46 Verti	cal
9764.00 22.36 23.80 46.16 54.00 -7.84 Verti	cal
12205.00 * 54.00 Verti	cal
14646.00 * Verti	cal
4882.00 19.18 15.42 34.60 54.00 -19.40 Horizo	ontal
7323.00 21.56 18.02 39.58 54.00 -14.42 Horizo	ontal
9764.00 19.64 23.80 43.44 54.00 -10.56 Horizo	ontal
12205.00 * Horizo	ontal
14646.00 * 54.00 Horizo	ntal

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V/1.			TM2 / CH: H		• •	_10'
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	31.15	15.58	46.73 vove	74.00	-27.27	Vertical
7440.00	31.25	17.93	49.18	ore ^k 74.00 pr ^{hb}	-24.82	Vertical
9920.00	33.04	23.83	56.87	74.00	17.13 AC	Vertical
12400.00	Aupors *	tek.	Anboten	74.00	abotek	Vertical
14880.00	Anbo*ek	Anbor	abotek	74.00	P	Vertical
4960.00	30.69	15.58	46.27	74.00	-27.73	Horizontal
7440.00	32.96	17.93	50.89	74.00	-23.11	Horizontal
9920.00	30.20	23.83	54.03 mbo	74.00	19.97 NO	Horizontal
12400.00	otek * And	DEO DE	atek ar	o ^{ven} 74.00 A ^{nt}	40	Horizontal
14880.00	rek*	nbotek P	no	74.00	Anbor	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	21.09	15.58	36.67	54.00 mot	-17.33	Vertical 🔊
7440.00	21.53	otek 17.93 no	39.46	54.00	po ^{tek} -14.54 A ^{nbi}	Vertical
9920.00	22.91 An	23.83	46.74	54.00	7.26	^{voo} Vertical
12400.00	abote*	Anbor	~ .	54.00	Ann	Vertical
14880.00	A tek	Anboten	Ann	54.00	Anbore	Vertical
4960.00	20.62	15.58	36.20	54.00	-17.80	Horizontal
7440.00	22.93	17.93	40.86	54.00	-13.14,00 ¹⁰	Horizontal
9920.00	19.54 noot	23.83	43.37	54.00 × nb ⁰	-10.63	Horizontal
12400.00	*	botek Aut	0° P.	54.00	pote. An	Horizontal
14880.00	Anbor *	atek.	Anboten	54.00	nbotek	Horizontal

Remark:[®]

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1. Result =Reading + Factor

Anbotek ,otek 2. Test frequency are from 1GHz to 25GHz, "*" means the test results were attenuated more than 20dB AND below the permissible limits, so the results don't record in the report.

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

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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

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Please refer to separated files Appendix III -- Internal Photograph

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End of Report -Anbotel Anbotek

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