

Anbotek

Anbolek

Report No.:1819C40030812501

FCC ID: 2ATS9-8818E

FCC Test Report

Applicant : Cleer Limited

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

HARBOUR ROAD, WANCHAI, HK, China

Product Name : ARC 3 Max Al Open Ear True Wireless

Headphone

Report Date : Sept. 19, 2024

Shenzhen Anbotek Compliance Laboratory Limited









FCC ID: 2ATS9-8818E

Contents

1. General Information	Tupo _{le} ,			iek Vu		
General Information 1.1. Client Information 1.2. Description of Device (EUT 1.3. Auxiliary Equipment Used 1.4. Operation channel list	-) Wyolek	Aupo.	iek b	^{Upo} tek	Anbote.	
1.3. Auxiliary Equipment Used I	During Test.	iek Vu	abolek	Vupolek	Y _{up} ,	
1.4. Operation channel list	Anb	o tek	Aupolek	- Pupoto	8k ° Up	3
1.7. Test Summary	Pole	Vue.	Anborek	Anbo	70k	
1.9. Disclaimer	Anbotat.		6 Prap	16 K		10
1.9. Disclaimer	Aupolo	k vy,	otek	AUDO IGE	Pun Potek	17 Anbo 13
2.1. Conclusion	Anb		, nbotek	Vupos.	K.,.	
3. Conducted Emission at AC power	r line	······ ^{/6} / _P ······	- Rupolek	Anbole	V.	,o.te ^k 14
3.1. EUT Operation	opolek	Vupo Pupo	Anbole	k Aupo	rek Va	14
3.3. Test Data	- 1000m			olek b		15
4. Occupied Bandwidth	Fupo _{le.}	ok Anu	00/6k	Myoolok	Vupo, Voick	1 <u>7</u>
3.2. Test Setup	rek v.	^{(p} 0/9 _k	Vipoleje "	Autories .	Anbo Anbol	18 18
Maximum Conducted Output Pow	ver	, abotek	Aupolo	7r	otek V	19
5.1. EUT Operation	Yupo,	"hotek	Aupol	Yu.	Notek	
5.2. Test Setup 5.3. Test Data	*v ₀	Npo'	60,		y	20 20
6. Channel Separation	Y WO	,e ⁾	oporek	Aupo	V490lek	21
6.1. EUT Operation 6.2. Test Setup	Yek Yur	nborek	Aupolek ************************************	Anbo	kAnbo	2 ²
6.3. Test Data		16K	Pupor		² 016 _K b	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7. Number of Hopping Frequencies 7.1. EUT Operation	Ann "otek	Anbotek		-tek	v upolek	22
7.2 Test Setup		, pulpe	16.y	/lek	V490 IEK	Vup 33
7.3. Test Data 8. Dwell Time	k VP.	o _{řek} l	'upater	hotek.	Aupolok	22
8.1. EUT Operation		abotek	Vupoje.	V. W.	ek Aup	24
9. Emissions in non-restricted frequency	ency bands	*upo _{le,}	And		Wholek	^{Anbo} 25
9.1. EUT Operation	Vu.,	K No. N	o _{lek}	YUD .	Vigote _k	26
9.2. Test Setup 9.3. Test Data	, , , , , , , , , , , , , , , , , , ,	ote _k	Aupolen V		Pupo _{le}	26
10. Band edge emissions (Radiated)		* upole.	An.	, ok	o ^{tek} 27





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Report No.:1819C40030812501 Anbotek FCC ID: 2ATS9-8818E

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	upotek Aup	٥٠ ١	Polek	Anbore	VIII	iek an	DOFER	Aup	۱. ما	otek
	10.1. EUT O 10.2. Test Se	peration	VU.		Anbo		Lotek	Aupore	27	-1
otek	10.2. Test Se	etup	dag	V.,		"Poler	And		28	Vupo.
.o.K	10.3. Test Da	ata		yak yay	0,- b			An	29	
Auporg	11. Emissions in	frequency b	oands (belo	w 1GHz)	Kipo _{lek}	Vupo,		ek Anb	30	<i>b</i> ,
Anbo) <u>P</u>		100	Up	400	Anbore	b.	491	30	
4-	11.2. Test Se	etup		200/6h	Vuo.		iek Vi	0	31 ×	ek
P	11.1. EUT O 11.2. Test Se 11.3. Test Da	ata	Vupo,		Pupoje.	V.L.			32	.V.
.\F	12. Emissions in		10%	" UD.		otek V	400°	W. Wolek	34	pole
Olek	12.1. EUT O	peration	o ₀ / ₀ / ₀ / ₀ /	Anbo		-700/ek	Aupora		34	Anbo
, 	12.2. Test Se	etup		(g.,	oore	·····················/////////////////		And	35	•
Vupoje,	12.3. Test Da	ata	470		/e/			.ge	36	B
h.	APPENDIX I T	EST SETU	P PHOTOG	RAPH	AUD	botek	Anbo		39	
VUD	APPENDIX II E				VOPOLe.	Vien		polek	39	V
	APPENDIX III				, re	100 A	V. V	·····	39°	LEK
ek.	Anboiek Ar	Pore, Olek	Aupolek	Anborek	ek al	olek l	,nbotek	Vupor_	P.	nbotel
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FCC ID: 2ATS9-8818E

TEST REPORT

Applicant : Cleer Limited

Manufacturer : Shenzhen Grandsun Electronic Co., Ltd.

Product Name : ARC 3 Max Al Open Ear True Wireless Headphone

Model No. : GS8818E

Trade Mark : Cleer

Rating(s) : Input: 5V=200mA (with DC 3.85V, 110mAh battery inside)

47 CFR Part 15.247

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

KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Aug. 28, 2024
Aupoter Aupo	A Solek Autolies Aug
Date of Test:	Aug. 28, 2024 to Sept. 10, 2024
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Prepared By:	All tex supplex Aup
Potek Aupote Auropek Aupotek	(Nianxiu Chen)
Auporek Auporek Auporek Auporek	Bolward pan
Approved & Authorized Signer:	k hotek Anbo
Potek Aupo	(Edward Pan)







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Report No.:1819C40030812501 Aupolek

FCC ID: 2ATS9-8818E

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Revision History

Anu	hotek	Aupolek Viek	Anbore	Revision I	History	ik Vii.	Aupotek K	Anboiek
te _K	Report	Version		Descripti	on		Issued	Date
upoksk	Anboro R	00	ootek	Original Iss	sue. okek	Anbotek	Sept. 19,	2024
Aupolek	Anbo	hotek	Anborek	Vupote Ofek	Aupolek Williams	Aupole	"ek V	"polek
Anbo	rek Ve	V upo iek	Aupotek	ek abotek	Aupolek	Ant	otek	Aupolek
P	"upo, polisk	Anbotek	Anbo	rek Vupo,	ek Aupol	e. e.k	Vup. 20016k	Anbotek

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FCC ID: 2ATS9-8818E

1. General Information

1.1. Client Information

	DA.		AD. MARKET AND
n'	Applicant	:	Cleer Limited And And And And And And And And And 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
e)	Factory	:	Shenzhen Grandsun Electronic Co., Ltd.
U.	Address	:	East Park,Gaoqiao Industry Zone,Pingdi Street,Longgang,Shenzhen , China

1.2. Description of Device (EUT)

View VUD		rek upo
Product Name	:	ARC 3 Max Al Open Ear True Wireless Headphone
Model No.	:	GS8818E Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Cleer And Andorsk Andorsk Andorsk Andorsk Andorsk
Test Power Supply	:	AC 120V/60Hz for Adapter; DC 3.85V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	FPC Antenna Libotek Libotek Libotek Libotek
Antenna Gain(Peak)	:	Left Earphone:1.97dBi Right Earphone:1.93dBi

- (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.







Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

1.3. Auxiliary Equipment Used During Test

Title Manufacturer		Model No.	Serial No.		
	Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	
2	Charging Case	Shenzhen Grandsun Electronic Co., Ltd.	GS8818E	Aupolek Aupor	

1.4. Operation channel list

Operation Band:

-76							
Channel	Frequency (MHz)	Channel N	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	Anboig 20	2422	40	2442	60 _{ND} ot	2462
inbor 1	2403	21	2423	41 nbote	2443	61	001ek 2463 M
Anbote 2	2404	22,001,010	2424	ek 42 Ant	olek 2444 Anb	62	2464
3 porer	2405	× 23 Anbc	2425	43	2445	63 _k	2465
4 Anboy	2406	otek 24	2426	44	2446	64	2466
otek 5 Ar	2407	25	2427	And 45 tek	2447	65	2467
abole6	2408	26,04	2428	46	2448 nbole	66 Anbo	2468
7 Stek	2409	27	2429	47 ^{Anbbo}	2449	otek 67 A	2469
8 potek	2410	28	otek 2430 And	48 An	2450	68 (₀₀₀	2470
8 ₅₀ 0,00	e ^k 2411 μποοί	29 Am	2431	nbote49	2451	69	2471
10	2412	10018 30	2432	Ant 50° K	2452	70 notek	2472
11	2413	An 31	2433	51borek	2453	71	2473 And
Anbolto	2414	32018	2434	52 _{Anb} o'	2454 hhbox	72	2474
13	2415	33 _{Anbole}	2435	11ek 53	1,001ex2455 An	73	2475
14.70018	2416	tek 34 An	2436 And	54	2456	Anbord	2476
ek 15 And	2417	, de 35	2437	55 _{ek}	2457	75	2477
lbote ^k 16	2418	36	2438	156 Lek	2458	76. nb o te	2478
17	2419	And 37 Notek	2439	57 ^{nb}	2459	ek 77 And	2479
18 tek	2420	38	2440 Anbore	58 Anbs	2460	,,,,ote ^k 78	2480
19	2421,0000	39 ^{Anbo}	2441	o ^{tek} 59	2461	hotek	Vupoler.









Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

1.5. Description of Test Modes

Pretest	Modes	Descriptions				
nek AnboTN	1 Anboro	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.				
KUPOFEK PLIN	2 And	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.				
Anbotek TIV	3 Alek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.				
Aupoles IN	4 Ando	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.				
Aupore IN	5 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.				
TIV	6k Aupor	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.				

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Anbote Anbote Anbote
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Dwell Time	2% Andorek Andort Andorek And
Conducted Spurious Emission	1.24dB Anbotek Anbotek
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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Report No.:1819C40030812501 Anbotek FCC ID: 2ATS9-8818E

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1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	And hotek Anbotek	Anbo
Conducted Emission at AC power line	Mode1,2,3	P ^{nbo}
Occupied Bandwidth	Mode1,2,3	P
Maximum Conducted Output Power	Mode1,2,3	hpotek P
Channel Separation	Mode4,5,6	Anbolok
Number of Hopping Frequencies	Mode4,5,6	AN Pokek
Dwell Time Nek Anbotek Anbotek	Mode4,5,6	PAnb
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P P
Band edge emissions (Radiated)	Mode1,2,3	POTEK P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	YAL POPER
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Ans Page

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N: N/A, not applicable

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FCC ID: 2ATS9-8818E

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.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

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





FCC ID: 2ATS9-8818E

1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupolek	Aug	Anbotek	Vupo,
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1ek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
1200h	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 1	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	And Josek	Vup Stok
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 Anbolek	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A Anbo	2023-10-16	2024-10-15
2 _{Anb}	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	, botok KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
00.5	Oscilloscope	Tektronix noo	MDO3012	C020298	2023-10-12	2024-10-11
16016	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

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Report No.:1819C40030812501 Anbotek FCC ID: 2ATS9-8818E

	edge emissions (Ra sions in frequency ba		Aupolek A	upor hotek	Aupolek	Aupolen
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
,e¥1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
nb 2.k	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3/00	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	Vupose.	Vup yek
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
Anbole 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

	1 /2 ·	16, VU	0 00 00	40.	~60	T v
VUD	-k hotek	Anbo	Not.	Aupole	VI.	"poter
Emiss	sions in frequency b	ands (below 1GHz)	Aupo ofek	Anboiek	Anbore	V. Jpolek
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 jel	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3 A 17/2	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE SHURPLE	N/A	N/A	Vupor	ek Anborek
otek	k Vupo	Vupojek Vupoje	iek Vupo	iek Wup.	olok Vup.	bolek Anbo

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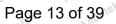
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Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

2. Antenna requirement

Test Requirement:

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

2.1. Conclusion

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







FCC ID: 2ATS9-8818E

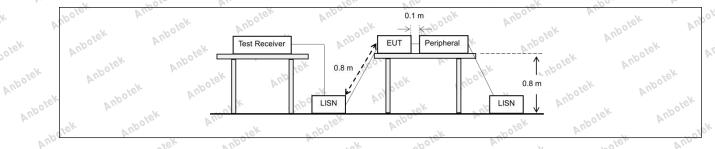
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the raback onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	hat is designed to be con idio frequency voltage tha y frequency or frequencie exceed the limits in the fo	nected to the at is conducted as, within the collowing table, as			
upotek Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)	Aupa			
W.	ole, Aug	Quasi-peak	Average			
ekabole Air	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5	56 And	46 Anbo			
Polek Aupo	5-30 × Anho	60 abole A	50			
rek Aupolek	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	Yuporer Yun	Vupolek b			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-			

3.1. EUT Operation

Operating Envi	ronment:	bolek	Aupolo	bu. Polek	Vupo ier	Ans
Test mode:	1: TX-GFSK (Non- hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Nor hopping) with 8DP	K modulation. (Non-Hopping) π/4 DQPSK m n-Hopping): Kee	: Keep the El lodulation. ep the EUT in	JT in continuous	ly transmittin	g mode

3.2. Test Setup





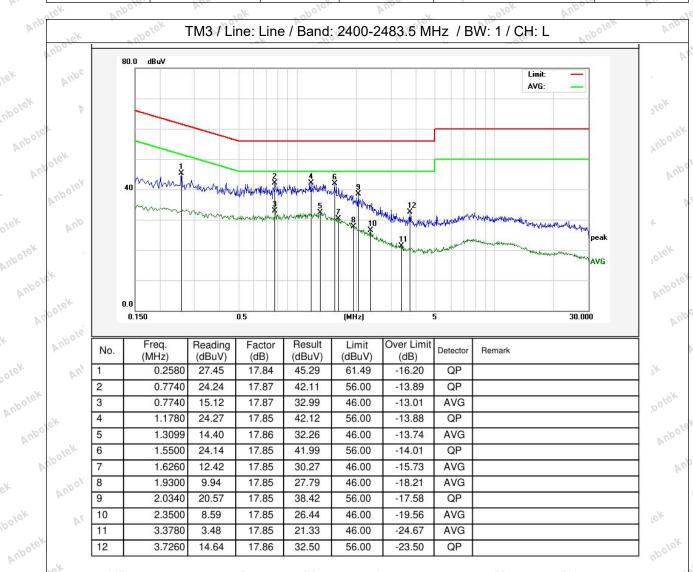


Report No.:1819C40030812501

FCC ID: 2ATS9-8818E

3.3. Test Data

Temperature: 24.2 °C Humidity: 48 % Atmospheric Pressure: 101 kPa

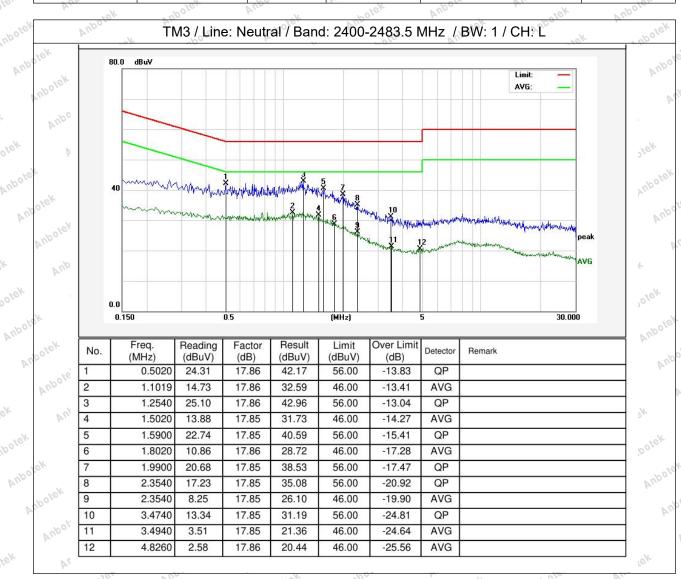






Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

Temperature: 24.2 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.





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Report No.:1819C40030812501

FCC ID: 2ATS9-8818E

4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Anbotek 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 Vupotek	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. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
Potek Vupotek Votek Vupotek Votek	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. c) Set the reference level of the instrument as required, keeping the signal
Anbotek Anbotek	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. 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 Anbotek	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 trace data points are recovered and directly summed in linear power terms.
upotek Yupotek Tek Yupotek	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 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%
Aupotek Aupote	power bandwidth is the difference between these two frequencies. 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 division shall be clearly labeled. Tabular data may be reported in addition to
Auporer Aur	the plot(s).





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Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

4.1. EUT Operation

Operating Environment:

1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-

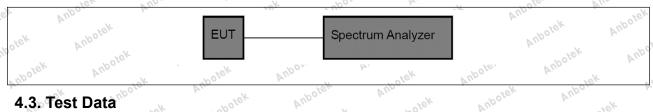
hopping) with GFSK modulation.

2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode Test 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:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





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Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

5. Maximum Conducted Output Power

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Test Requirement:	47 CFR 15.247(b)(1)
Test 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
Aupotek Aupotek Aupotek Aupotek Aupotek Aupotek Aupotek Aupotek	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.
Procedure: Notick	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize.
Aupotek Aupotek	 h) Use the marker-to-peak function to set the marker to the peak of the 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 the test report.
Vipotek Vipotek	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 analyzer.

5.1. EUT Operation

Y-	Operating Envir	onment:	sporek Aupo,	rotek.	Vupole.	VIII
000	Test mode: Anbore	hopping) with GFSK 2: TX-π/4-DQPSK (Non-hopping) with π	Non-Hopping): Keep th r/4 DQPSK modulatior	ne EUT in continuo	ously transm	itting mode
	Aupotek b	3: TX-8DPSK (Non-line) hopping) with 8DPSI	Hopping): Keep the EU K modulation.	JT in continuously	transmitting	mode (non-







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Report No.:1819C40030812501

FCC ID: 2ATS9-8818E

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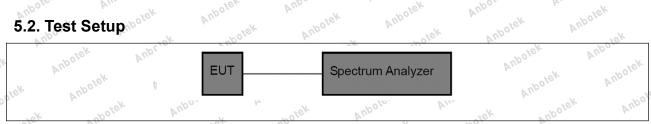
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5.2. Test Setup



5.3. Test Data

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5.3. Test Dat	a _{hotek}	Aupole.	Vupofek	Auporek Aup	potek b	'upotek	VU
Temperature:	25.5 °C	Humio	dity: 47 %	Atmospheric	c Pressure:	101 kPa	
Anbo	leio.	Anbore	b.	"Upole"	AUG	hotek	_
Please Refer to	o Appendix	for Details.	tek Vupor	W.	"pope"	Vun	V

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Hotline 400-003-0500 www.anbotek.com





FCC ID: 2ATS9-8818E

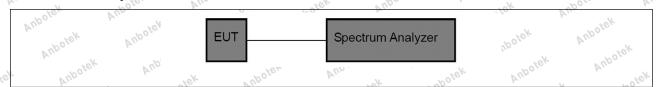
6. Channel Separation

10/0	D. C.	16 10 W
Anb rek	Test Requirement:	47 CFR 15.247(a)(1)
Anborek Anborek	Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	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.
Anbote	Test Method:	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
rotek Vul	Anbotek Anbotek	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
Aupolek	k Anbotek Anbov	spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW.
Anbor	Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
iek V.	Aupotek Aupotek	g) Allow the trace to stabilize.
^{Upolek}	Aupotek Aupot	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.
	OK PUPOL V.	included in the restriction.

6.1. EUT Operation

P	Operating Envir	onment:	Anbole	All Sick	Aupoter	Pup.	Spokek	DU
3K	Test mode:	4: TX-GF with GFS 5: TX-π/4 (hopping 6: TX-8D	SK modulation 4-DQPSK (Ho) with π/4 DQ PSK (Hopping	,. pping): Keep th PSK modulatio g): Keep the El	ne EUT in cor n.	usly transmitting ntinuously transm	nitting mode	ek ek
90	Vie. VIII.	with 8DP	SK modulatio	n.º	rek	Vupor W.	You	2001

6.2. Test Setup



6.3. Test Data

	Temperature:	25.5 °C	, hotel Hi	umidity: 47 %	Alla	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







FCC ID: 2ATS9-8818E

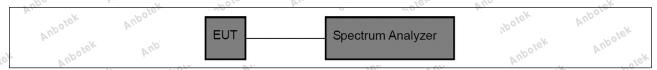
7. Number of Hopping Frequencies

DI.	16, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: 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
Aupotek Aupotek Aupotek Aupotek Aupotek Aupotek	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.
Procedure: Anbotek Anbotek Anbotek	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.
ek ^{Vupo} fek Vupo,	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

Operating E	Environment:	Aupolek	Aup	abolek	Aupor	Polek.
Test mode:	with GFSK 5: TX-π/4-D (hopping) w	modulation,. QPSK (Hopp ith π/4 DQPS	oing): Keep the SK modulation.	EUT in contin	uously transm	mode (hopping) itting mode mode (hopping)
Ye.Y	with 8DPSk	modulation.	Polek V.	upo.	rek	Anbore Air

7.2. Test Setup



7.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	AUD	Atmospheric Pressure:	101 kPa	b.
. ~0~ .	V	70 Y			16,	- 2/2	

Please Refer to Appendix for Details.







Report No.:1819C40030812501

FCC ID: 2ATS9-8818E

8. Dwell Time	Aupotek Aupotek Aupotek Vupotek Vupotek
And	tek Vupoter Vupotek Vupotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	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 Vipotek Vipotek Vipotek Vipotek	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.
ootek Anbotek An	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.
Aupolek Aupol	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
Procedure:	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 dwell time with the minimum number of channels.
bolek Anbore	Use the following spectrum analyzer settings to determine the dwell time per
YII.	hop: Amborek Anborek Anborek Anborek
Tek Aupotek Aupotek	a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be 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.
otek Anbotek Anb	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.
Anbotek Anbotek	e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between

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Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

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:

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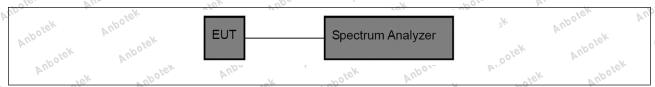
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..

Test mode:

5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/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:	25.5 °C	Humidity:	47 %	hotek	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.









FCC ID: 2ATS9-8818E

9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anbotek Anbotek Anbotek Anbotek 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 either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
Viek Vij	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the
Pupolek Vupolek	transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
Aupotek Aupotek	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of
ek Aupotek Aupotek	testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure: Anborek	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video 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 required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band
^{Vupotek} Vupotek	measurements a separate spectral plot showing the in-band level shall be provided.
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth







FCC ID: 2ATS9-8818E

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.

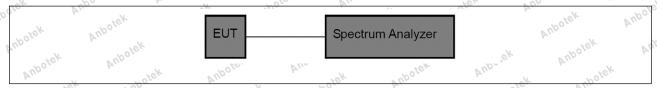
For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

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- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
- Test mode:
 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation.
 - 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.
 - 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

9.2. Test Setup



9.3. Test Data

Temperature: 25.5 °C I	Humidity: 47 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

10. Band edge emissions (Radiated)

D. 1.	ISE PUB	Ask Wo. L.	-K Hole.
Test Requirement:		In addition, radiated emissions I in § 15.205(a), must also comp	
rest requirement.		ecified in § 15.209(a)(see § 15.2	
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
anbotek Anbo	0.009-0.490	2400/F(kHz)	(meters) 300
A. Otek Anbote	0.490-1.705	24000/F(kHz)	30 Antonio
Aupo	1.705-30.0	30	30
k Wipoley Will	30-88	100 ** Note And	3
r rotek	88-216	150 **	3tek Anoo
Olek VUD	216-960	200 **	3 ,60
- Jiek Vupoje,	Above 960	500	3 nbore
Test Limit:		ragraph (g), fundamental emissi	
Anboien And		ng under this section shall not b	
Anbotek Anbote	However, operation within t	z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	
ek Aupolek Au	sections of this part, e.g., § In the emission table above	§ 15.231 and 15.241. , the tighter limit applies at the b	oand edges.
ick upotek	The emission limits shown	in the above table are based on	measurements
born W.		peak detector except for the freq above 1000 MHz. Radiated emis	
Aupoles Aug	10.7	ed on measurements employing	V-
Potek Vupore	detector.	And tek and otek	Andre
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		k Aupoles
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Dole. VIII
F	120 A. Br.	1600	- N - NO.

10.1. EUT Operation

0.1			200	A	010	D'	100	* Uh
P	Operating Envir	onment:	VIII.	Auporek	Vup.	, upotek	Anbo	b.,
	Aupolek		SK (Non-Hop with GFSK m		ne EUT in conti	nuously transm	itting mode (no	on-
Ys	Test mode:	(non-hop	ping) with π/4	DQPSK mod		Jose Ver	rek a	DOIGH
00	liek Vupore.		PSK (Non-Howith 8DPSK		the EUT in con	tinuously trans	mitting mode (r	ion-





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Report No.:1819C40030812501

FCC ID: 2ATS9-8818E

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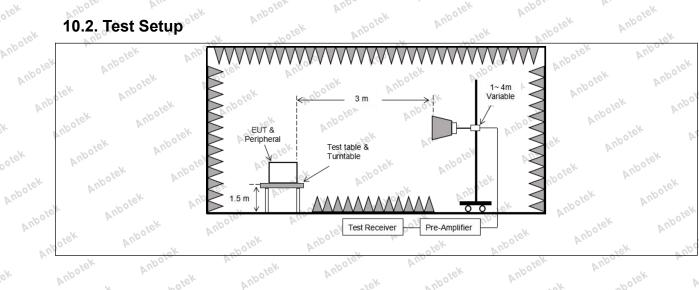
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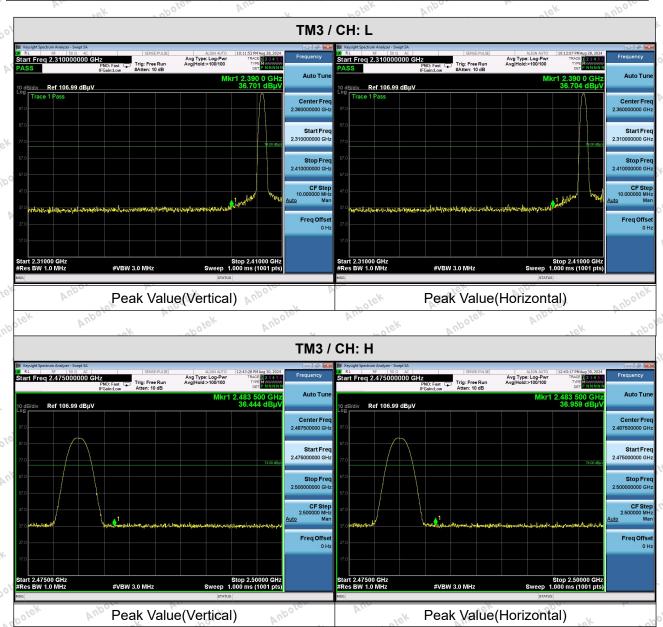




FCC ID: 2ATS9-8818E

10.3. Test Data

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



Remark:

Aupolek

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









Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

11. Emissions in frequency bands (below 1GHz)

Lie. Vu.		pecified in § 15.209(a)(see § 15.	
rek anbotek	Frequency (MHz)	Field strength	Measuremen
Tupo, W. Tiek	Vupore, Vun	(microvolts/meter)	distance
abotek Anbo	0.009-0.490	2400/5/647	(meters)
All abol	0.490-1.705	2400/F(kHz)	300
Aupore Wir	1.705-30.0	24000/F(kHz) 30	30
" " " Al	30-88	100 **	3
And	88-216	150 **	3,101
rek Vupoje.	216-960	200 **	A.3
o hek	Above 960	500	3 abotek
Talek Anbe	100	V 707	- A.I
LIPSI I IMIT	** Event on provided in pe	araarank (a) fundamäntal amia	niana frama
Test Limit:		aragraph (g), fundamental emis	
Aupotek Aupotek	intentional radiators opera	ting under this section shall not	be located in the
Aupotek Aupotek	intentional radiators operative frequency bands 54-72 MH	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz o	be located in the 470-806 MHz.
Anbotek Anbotek	intentional radiators operative frequency bands 54-72 MH However, operation within	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permi	be located in the 470-806 MHz.
Anbotek Anbotek	intentional radiators operar frequency bands 54-72 MH However, operation within sections of this part, e.g., §	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permi §§ 15.231 and 15.241.	be located in the 470-806 MHz. itted under other
Anbotek Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table abov	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permi §§ 15.231 and 15.241. e, the tighter limit applies at the	be located in the 470-806 MHz. itted under other band edges.
Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operative frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission limits shown	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permi §§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based of	be located in the r 470-806 MHz. itted under other band edges. n measurements
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operative 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-	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permi §§ 15.231 and 15.241. e, the tighter limit applies at the	be located in the 470-806 MHz. Itted under other band edges. In measurements quency bands 9
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operative 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 Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. e, the tighter limit applies at the in the above table are based of peak detector except for the fre	be located in the 470-806 MHz. Itted under other band edges. In measurements quency bands 9-ission limits in
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operative 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 Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. e, the tighter limit applies at the in the above table are based of peak detector except for the fre above 1000 MHz. Radiated em	be located in the 470-806 MHz. Itted under other band edges. In measurements quency bands 9-ission limits in
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operar frequency bands 54-72 MH However, operation within sections of this part, e.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	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. e, the tighter limit applies at the in the above table are based of peak detector except for the free above 1000 MHz. Radiated emed on measurements employing	be located in the 470-806 MHz. Itted under other band edges. In measurements quency bands 9-ission limits in
Test Method:	intentional radiators operative frequency bands 54-72 MHHowever, 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 bas detector.	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. e, the tighter limit applies at the in the above table are based of peak detector except for the free above 1000 MHz. Radiated emed on measurements employing 16.6.4	be located in the 470-806 MHz. Itted under other band edges. In measurements quency bands 9-ission limits in

11.1. EUT Operation

0. 1		. ~	200	A	. 010	D1.	187	· U/
ly.	Operating Envir	onment:	VIII.	Auporek	Aug. rek	nbotek	Aupor	<i>b</i> .
	Anbotek	hopping)	with GFSK m	odulation.	ne EUT in conti	Aupo	, ove	3K
1	Test mode:	(non-hop	ping) with π/4	DQPSK mod		ole, Vi	, ek n	poler
00	Tiek Vupore.		PSK (Non-Howith 8DPSK		the EUT in con	tinuously transi	mitting mode (r	non-





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Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

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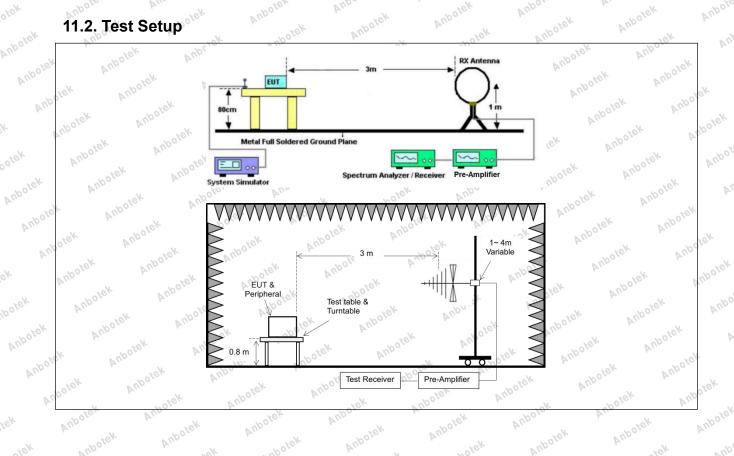
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11.2. Test Setup



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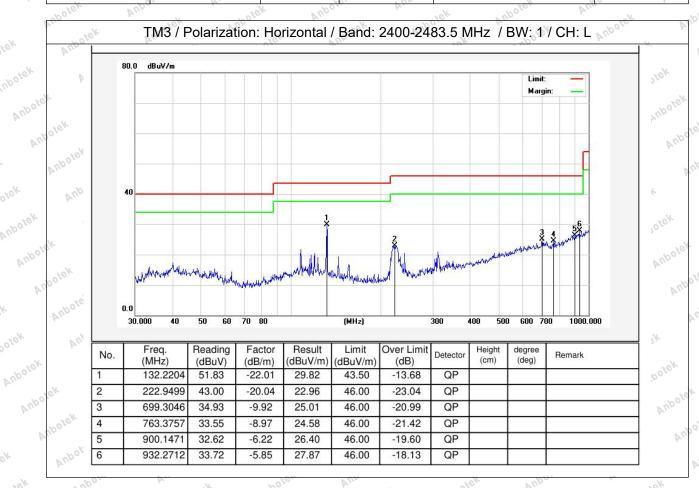
Report No.:1819C40030812501

FCC ID: 2ATS9-8818E

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.

Temperature: 23.9 °C Humidity: 53 % Atmospheric Pressure: 101 kPa

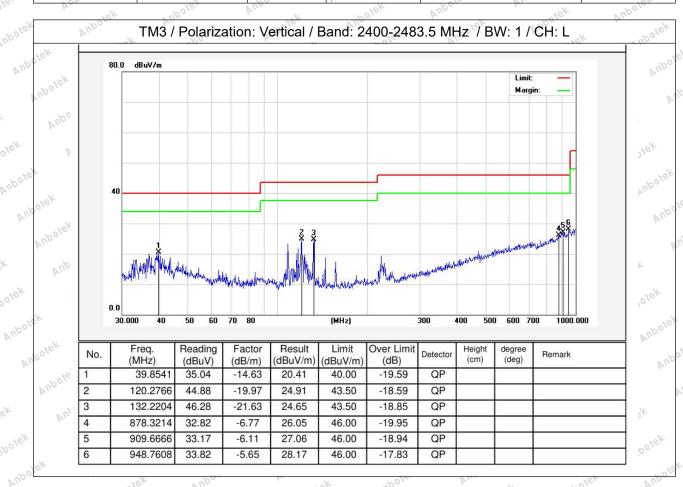




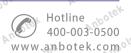


Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

Temperature: 23.9 °C Humidity: 53 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

12. Emissions in frequency bands (above 1GHz)

Test Requirement:	in § 15.205(a), must also of in § 15.209(a)(see § 15.20		Vupo, W.
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Aupo	0.009-0.490	2400/F(kHz)	300
Polek Vupo	0.490-1.705	24000/F(kHz)	30 100
Vun.	1.705-30.0	30° Anbor	30 abole
k anbote A	30-88	100 **	3
, olek	88-216	150 **	31ck An
otek And	216-960	200 **	3
ok spoten	Above 960	500 %	3 20010
Table I institu	18k hubb	V V07	
Test Limit:	intentional radiators opera	aragraph (g), fundamental emis ting under this section shall no	t be located in the
Test Limit: Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g.,	aragraph (g), fundamental emisting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is perm §§ 15.231 and 15.241.	t be located in the or 470-806 MHz. nitted under other
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi-	aragraph (g), fundamental emisting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. The tighter limit applies at the in the above table are based of peak detector except for the free tighter limit applies.	t be located in the or 470-806 MHz. nitted under other e band edges. on measurements equency bands 9
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	aragraph (g), fundamental emisting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. The tighter limit applies at the in the above table are based of	t be located in the or 470-806 MHz. nitted under other e band edges. on measurements equency bands 9- nission limits in
Test Limit:	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.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	aragraph (g), fundamental emisting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. The tighter limit applies at the in the above table are based of peak detector except for the free above 1000 MHz. Radiated enter the free enter the enter the free enter the free enter the free enter the enter the free enter the enter the free enter the enter	t be located in the or 470-806 MHz. nitted under other e band edges. on measurements equency bands 9- nission limits in

12.1. EUT Operation

D. 1	100	10.	702	* · · · · · · · · · · · · · · · · · · ·	1-01	Dr.	. 48,	0 177
1	Operating Envir	onment:	VII.	Anborek	Vup.	anbolek	Anbo	<i>b</i> .
	Anbotek	hopping) v	with GFSK m	odulation.	ne EUT in contir	Anbe	V	N _S
1	Test mode:	(non-hopp	oing) with π/4	DQPSK mod		OLO. VA.	rek n	poler
00	rek Vupore.		PSK (Non-Ho with 8DPSK r		the EUT in cont	inuously transr	nitting mode (ı	non-





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Report No.:1819C40030812501

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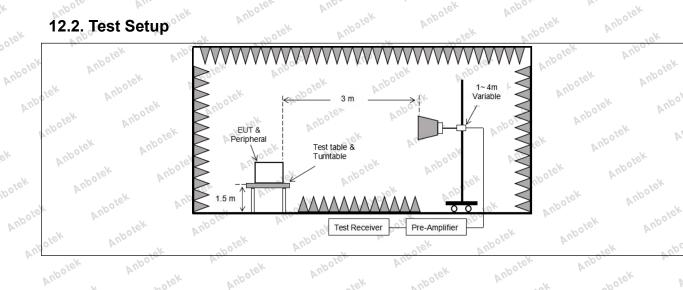
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12.2. Test Setup

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Report No.:1819C40030812501 Anbotek

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FCC ID: 2ATS9-8818E

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12.3. Test Data

Temperature:	24.6 °C	Humidity:	50 %	Atmospheric Pressure:	101 kPa
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W.	"pole.	VIII.	Polek	Anbe	, tek	Auporg		
TM3 / CH: L								
Peak value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4804.00	31.66	15.27	46.93	74.00	-27.07	Vertical		
7206.00	32.06	18.09	50.15	74.00	-23.85	Vertical		
9608.00	34.42	23.76	58.18	74.00	-15.82	Vertical		
12010.00	* "pole	Anbor	-K 2016	74.00	All	Vertical vol		
14412.00	*	otek Anbo	ie. Vue	74.00	olek Yupe	Vertical		
4804.00	31.66 And	15.27	46.93	74.00	-27.07	Horizontal		
7206.00	33.90	18.09	51.99	74.00	-22.01	Horizontal		
9608.00	30.16	23.76	53.92	74.00	-20.08	Horizontal		
12010.00	Ano*	upolek	Anbor	74.00	Aupoles	Horizontal		
14412.00	Kupor.	r rotek	Aupoles	74.00	k anboiek	Horizontal		
Average value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4804.00	21.04	15.27	36.31	54.00	-17.69	Vertical		
7206.00	21.09	18.09	39.18	54.00	-14.82	Vertical		
9608.00	23.44	23.76	47.20	54.00	-6.80	Vertical		
12010.00	* * 100°	sk Aupor	N	54.00 mo	e. And	Vertical		
14412.00	*	otek Auk	oter, Vur	54.00	potek Aut	Vertical		
4804.00	20.01	15.27	35.28	54.00	-18.72	Horizontal		
7206.00	22.96	18.09	41.05	54.00	-12.95	Horizontal		
9608.00	19.47	23.76	43.23	54.00	+10.77	Horizontal		
12010.00	VU*	abolek	Aupor	54.00	Aupole	Horizontal		
14412.00	*Anbore	B	K Vupore,	54.00	rek abov	Horizontal		

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Report No.:1819C40030812501

FCC ID: 2ATS9-8818E

	upotek Vup	rek Aupor	rek "u	otek Anb	SE Aupo	hotek An	otek V
	100	- 401	100, h.	ГМ3 / CH: М	Pole. V	(In	-16 _K
	Peak value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
	4882.00	31.68	15.42	47.10	74.00	-26.90	Vertical
	7323.00	o ^{ve*} 31.91 ⊾ ^{nb°}	18.02	49.93	74.00	-24.07	Vertical
	9764.00	33.43	23.80	57.23	74.00	-16.77	Vertical
	12205.00	Anb *	abotek	Aupor	74.00	Aupolek.	Vertical
	14646.00	Anbo*	Viek Viek	Aupolek	74.00	apolek	Vertical
	4882.00	31.36	15.42	46.78	74.00	-27.22	Horizonta
	7323.00	33.89	18.02	51.91	74.00	-22.09	Horizonta
	9764.00	29.86	23.80	53.66	74.00	-20.34	Horizonta
	12205.00	potek * And	. SK	sporek An	74.00	iolek b	Horizonta
	14646.00	"POIGH*	Anbolo	Clek	74.00	Vup.	Horizonta
	Average value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
	4882.00	× 20.77, 100 100	15.42	36.19 no	54.00	-17.81	Vertical
	7323.00	21.19	o ^{tek} 18.02 And	39.21	54.00 N	-14.79	Vertical
	9764.00	23.30	23.80	47.10	54.00	-6.90	Vertical
	12205.00	Aupore*	Vun	nbotek	54.00	boiek	Vertical
	14646.00	" Aprick	Anbors	hotek	54.00	All.	Vertical
	4882.00	19.92	15.42	35.34	54.00	-18.66	Horizonta
ć	7323.00	22.52	18.02,0010	40.54	54.00	-13.46 h	Horizonta
	9764.00	19.98 h	23.80	otek 43.78 And	54.00	10.22 N	Horizonta
0	12205.00	work *	Poles Vu	rek	54.00	100	Horizonta
	14646.00	W. K.	Pupolek	Anbo	54.00	Anborek	Horizonta

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Report No.:1819C40030812501 FCC ID: 2ATS9-8818E

Vupos. Y.	You	pole, Yu	V	"Olek V	400	1ek
		•	TM3 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	31.95	15.58	47.53	74.00	-26.47	Vertical
7440.00	31.92	17.93	49.85	74.00 knb	-24.15	Vertical
9920.00	33.98	23.83	57.81	74.00	16.19	Vertical
12400.00	Anbole *	Viek .	Vupolek	74.00	abolek	Vertical
14880.00	VUPO*EK	Vup.	Spotek	74.00	V. Olek	Vertical
4960.00	31.43	15.58	47.01	74.00	-26.99	Horizontal
7440.00	33.92	17.93	51.85	74.00	-22.15	Horizontal
9920.00	30.54	23.83	54.37 mbo	74.00	tek -19.63 noo	Horizontal
12400.00	olek * And	ole. Vin	Jek N	74.00 And	48.	Horizontal
14880.00	rek*	Anboiek A	Upp	74.00	Aupore A	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	21.89	15.58	37.47	54.00 noon	-16.53	Vertical (
7440.00	22.20	nek 17.93 no	40.13	54.00	o ^{tek} -13.87 A ^{nb}	Vertical
9920.00	23.85	23.83	47.68	54.00	-6.32	√ Vertical
12400.00	"pole*	Aupor	"Otek	54.00	Vun.	Vertical
14880.00	* tek	Aupolek	Augo	54.00	Aupole	Vertical
4960.00	21.36	15.58	36.94	54.00	-17.06	Horizontal
7440.00	23.89	17.93	41.82	54.00	-12.18 ₀₀ 10	Horizontal
9920.00	19.88	23.83	43.71	54.00 kn	-10.29	Horizontal
12400.00	*	Polek Vul	, b.,	54.00	Poles Vu	Horizontal
14880.00	upole *	*ek	"Upoles	54.00	hotek	Horizontal

Remark:

- 1. Result =Reading + Factor
- 2. 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

Aupolek

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Anboiek

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

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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----- End of Report

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