

FCC ID: AUSCR3039AV3 18220WC40044901 Page 1 of 39 Report No.:

FCC Test Report

Modern Marketing Concepts, Inc. **Applicant**

1220 E Oak St., Louisville, Kentucky, United **Address**

States

Bluetooth speaker **Product Name**

: Apr. 26, 2024 **Report Date**



ce Laboratory Limited







Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 2 of 39

Contents

1. General Information			epoter	Vup.	, ortek
1.1. Client Information 1.2. Description of Device (EUT) 1.3. Auxiliary Equipment Used During Te 1.4. Operation channel list 1.5. Description of Test Modes 1.6. Measurement Uncertainty 1.7. Test Summary 1.8. Description of Test Facility 1.9. Disclaimer 1.10. Test Equipment List 2. Antenna requirement 2.1. Conclusion 3. Conducted Emission at AC power line 3.1. EUT Operation 3.2. Test Setup 3.3. Test Data 4. Occupied Bandwidth 4.1. EUT Operation 4.2. Test Setup 4.3. Test Data 5. Maximum Conducted Output Power 5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	est	Arisotes poborek	Aug Week	14 ¹⁶ 1	New A
2. Antenna requirement	Aupo,	h. Spotek	Aupote.	Y. VIII	1/1,
2.1. Conclusion	Aupo,	Ar. Shorek	, odał	e. Au	1
3. Conducted Emission at AC power line	Anbore	V	(ay	poter	1
3.1. EUT Operation	igrey Pupo _s	otek An	oorek Noorek	Yanoday Yan	1 1 1
4. Occupied Bandwidth	Mobolek	Aupo	pajek	Anbor	
4.1. EUT Operation	Vupolek Vupolek	Wapotek	ek gat	1016M	1 1 1
5. Maximum Conducted Output Power	k Pupote	Anto		Wpolek	1
5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	100 100 1000 100 100 100 100 100 100 100	otek Modek	on Solok	Altoorek paloore	1 2
6. Channel Separation		Anbore		y	o ^{tek} 2
6.1. EUT Operation 6.2. Test Setup 5.3. Test Data 6.1. EUT Operation 6.2. Test Setup 6.3. Test Data	Anvotek Anvotek Lobote	Anbores Anbores	Anb Anb	neo _{tek}	2 2 2
6.3. Test Data 7. Number of Hopping Frequencies	0 ₀₂	oiek Anb	······································	ojek	Anborer 2
7.1. EUT Operation	^{Upolo} k	,hotek	iupo,	Ai.	2
8. Dwell Time	Ann	anbotek	Aupo.	·ok	.botek P2
8.1. EUT Operation 8.2. Test Setup 8.3. Test Data	AUD		k Anbo	Vporter	2 2
Emissions in non-restricted frequency ban	/ / / / / / / / / / / / / / / / / / /			Vup.	2
9.1. EUT Operation	100 OKA 100 K	Anjorek Anjorek	Anbore Motek	Anbo Anbo	2 2







Report No.: 18220WC40044901	FCC ID: AUSCR3039AV3	Page 3 of 39
10. Band edge emissions (Radiated)	Anbotek Anbote, Ann	otek2
10.1. EUT Operation 10.2. Test Setup 10.3. Test Data	tek Vipolek Vipole Vipolek Vipole	27
11. Emissions in frequency bands (below 1GHz	Z) stelk hubbasek Aubon	30
11.1. EUT Operation 11.2. Test Setup 11.3. Test Data	Andrew Andrew Andrew	30
12. Emissions in frequency bands (above 1GHz	z)Anbore	
12.1. EUT Operation 12.2. Test Setup 12.3. Test Data	es Anotek Anbores (
APPENDIX I TEST SETUP PHOTOGRAPH. APPENDIX II EXTERNAL PHOTOGRAPH APPENDIX III INTERNAL PHOTOGRAPH	Anborek Anbo	39 39





18220WC40044901 FCC ID: AUSCR3039AV3 Report No.: Page 4 of 39

TEST REPORT

Applicant Modern Marketing Concepts, Inc.

Manufacturer SHENZHEN GXTSONIC TECHNOLOGY CO., LTD

Product Name Bluetooth speaker

CR3039A Test Model No.

CR3039XX-XXXX ("X" can be replaced by letter from "A" to "Z", number Reference Model No.

from "0" to "9" or blank)

N/A Trade Mark

Input: 5V-- 1A (with DC 3.7V,1200mAh battery inside) Rating(s)

47 CFR Part 15.247 Test Standard(s) ANSI C63.10-2020

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:	Mar. 15, 2024
Date of Test:	Mar. 15, 2024 to Mar. 26, 2024
Anbotek Anbote All botek Anbotek	Anbot Anbotek Anbote An
ek Anbotek Anbote Anbotek Anbotek	Nian xiu Chen
Prepared By:	Bris atak abotek Anbo. Ar
	(Nianxiu Chen)
	Anborek Anbore
	Idward pan
Approved & Authorized Signer:	Dorek Anbore Ann Anton
	(Edward Pan)



Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 5 of 39

Revision History

	Report Version	Description	Issued Date
	Anborte R00 potek An	Original Issue.	Apr. 26, 2024
37	Anbotek Anbotek	Anbotek Anbotek Anbotek	K abotek Anbotek Ant
10	or Alpotek Anbotek	Anbotek Anbotek Anbot	otek Anbotek Anbotes





Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 6 of 39

1. General Information

1.1. Client Information

Applicant	:	Modern Marketing Concepts, Inc.
Address	1	1220 E Oak St., Louisville, Kentucky, United States
Manufacturer	:	SHENZHEN GXTSONIC TECHNOLOGY CO., LTD
Address	:	1F,Building 3,Tianxin Shuichan Industrial Park,Gushu Village,Xixiang Town,Bao'an District,Shenzhen,Guangdong,CHINA
Factory	:	SHENZHEN GXTSONIC TECHNOLOGY CO., LTD
Address	:	1F,Building 3,Tianxin Shuichan Industrial Park,Gushu Village,Xixiang Town,Bao'an District,Shenzhen,Guangdong,CHINA

1.2. Description of Device (EUT)

Product Name	:	Bluetooth speaker
Test Model No.	:	CR3039A
Reference Model No.	:	CR3039XX-XXXX ("X" can be replaced by letter from "A" to "Z", number from "0" to "9" or blank) (Note: All samples are the same except the model number and color, so we prepare "CR3039A" for test only.)
Trade Mark	:	N/A Anborek Anborek Anborek Anborek Anborek
Test Power Supply	:	AC 120V/60Hz for Adapter; DC 3.7V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A sek anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification	•	
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 k Mbotek Anbote Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)		-0.68dBi

Remark

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 7 of 39

1.3. Auxiliary Equipment Used During Test

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

1.4. Operation channel list

Operation Band:

Operation E	sand:	1	OLE. VILL		rek nob	O. N.	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Aupo O	2402	20	2422	40	2442	60	2462
AUJONER V	2403	210tek	2423	41 otek	2443	61	2463
2, nboke	2404	22 _{mb} ote	2424	42	2444	62	2464
x 3 Anbc	2405	tek 23 ant	2425	43	od 2445 March	63	2465
otek 4 A	2406	24	2426	44	2446	64	2466
obo*5	2407	25	2427	45 k	2447	Anb 65	2467
nl6tek	2408	26	2428	46	2448	66	2468
7 _{Anbořek}	2409	27	2429	47	2449	67 ¹⁰⁰	2469
8 _{NOO}	2410	28	2430	48	2450	68 Mapo	2470
tek 9	o ^{tek} 2411 Anbc	29	2431	49	2451	o ^{tel} 69	2471
10	2412	30	2432	100 50 K	2452	70 70	2472
1104	2413	Anbada 31	2433	Anbore	2453	71	2473
12 rek	2414	32	2434	52	2454	720101	2474
13	2415	33	2435	53×nbore	2455	² 73 Anbot	2475
14	2416	34	2436	otek 54 Anb	2456	otek 74 An	2476
15	2417	35	2437	nbotek	2457	75	2477
16	2418	36	2438	56	2458	76	2478
Anbert 17	2419	M37	2439	57	2459	77 otek	2479
18	2420	38 000	2440	58,00te	2460	× 78 nbot	2480
19	2421	39 Mupo	2441	tek 59 Anb	2461	otek - out	otek - An





FCC ID: AUSCR3039AV3 Report No.: 18220WC40044901 Page 8 of 39

1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1 botek An	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2 Anbotek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
totek Anborek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Anbore TM4.ek Anbore	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation.
And TM5 porek Ant	Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.
ak Anborek TM6 Anborek	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz rek Anborek Anborek
Conducted Output Power	0.76dB porek Anborek Anborek
Conducted Spurious Emission	1.24dB hotek Anbout Anbout
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.









Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 9 of 39

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anbote	And Potek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P P
Maximum Conducted Output Power	Mode1,2,3	b
Channel Separation	Mode4,5,6	upor Pk
Number of Hopping Frequencies	Mode4,5,6	Anbe Prick
Dwell Time	Mode4,5,6	P
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P Pans
Band edge emissions (Radiated)	Mode1,2,3	P An
Emissions in frequency bands (below 1GHz)	Mode1,2,3	upore B
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbor P
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbore

N: N/A, not applicable





Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 10 of 39

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- The test report is invalid if there is any evidence and/or falsification.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

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





Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,



FCC ID: AUSCR3039AV3 Page 11 of 39 Report No.: 18220WC40044901

1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k spotel	Anbore	An
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
2 5016K	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborotek

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Item Equipment		Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15	
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19	
An3ote	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25	
4 nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11	
5	Oscilloscope Tektronix		MDO3012	C020298	2023-10-12	2024-10-11	
6	MXG RF Vector Signal Generator	Δαμέρτ		MY474206 47	2024-02-04	2025-02-03	

Hotline



Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 12 of 39

Ote.	And	otek pupo.	N. ak	-boye.	VU _P	ysio
	edge emissions (Ra sions in frequency ba		Auporgoiek	Anbotek	Aupoter.	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emissions in frequency bands (below 1GHz)								
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date		
1 EMI Test Receiver Ro		Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11		
. 2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11		
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22		
Anistel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11		
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	y Aupon	k Anbotek		





Hotline



Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 13 of 39

2. Antenna requirement

Test Requirement:

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

2.1. Conclusion

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is -0.68dBi . It complies with the standard requirement.





FCC ID: AUSCR3039AV3 Report No.: 18220WC40044901 Page 14 of 39

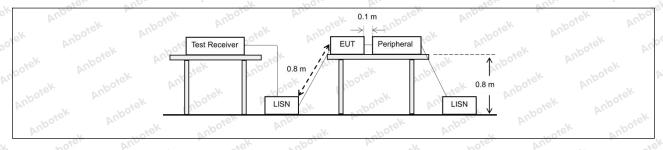
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the reback onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms	that is designed to be con adio frequency voltage tha ny frequency or frequencie t exceed the limits in the f	nected to the at is conducted as, within the ollowing table, as
o h spoiek	(LISN).	Can duated limit (dD:\/)	Anbore
Aupore All.	Frequency of emission (MHz)	Conducted limit (dBµV)	Averego
sotek Anbo.	W. The Work William	Quasi-peak	Average
Test Limit:	0.15-0.5	66 to 56*	56 to 46*
rest Littit.	0.5-5 dek nabote Ame	56 hotel An	46
Ans above	5-30 And San	60	50 And
Anbors Air	*Decreases with the logarithm of t	he frequency.	
Test Method:	ANSI C63.10-2020 section 6.2	Anbores.	Aug Otek
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unline conducted emissions from the conducted emission		

3.1. EUT Operation

Operating Envir	ronment:	Aupo.	hotek	Vupose.	Andarak	nboick	Vupo.
Test mode:	hopping) w 2: TX-π/4-[(non-hopping) 3: TX-8DPS	ith GFSK modules $^{\circ}$ OQPSK (Norng) with $\pi/4$	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU ulation.	ontinuously trans T in continuousl continuously trai	y transmitting	g mode

3.2. Test Setup





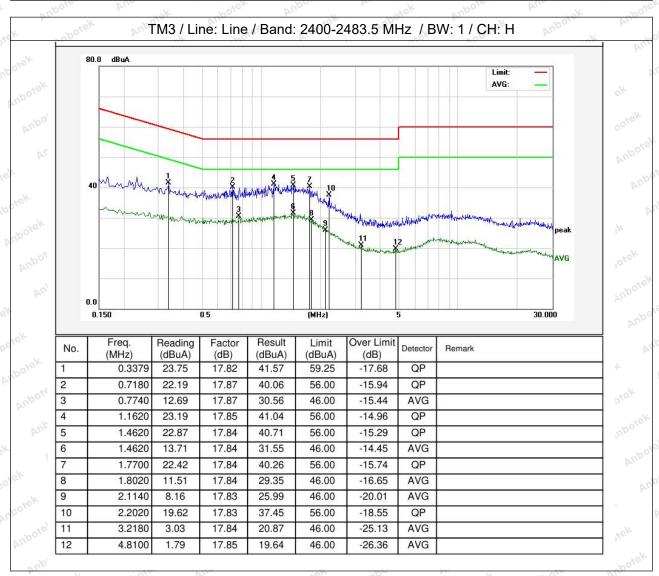
Hotline



Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 15 of 39

3.3. Test Data

Tomporatura	24 4 9 0	Lumiditu	52 %	Va.	Atmoonhoria Progrums: 101 kPa	
Temperature:	21.4	Humidity:	32 %	2000,	Atmospheric Pressure: 101 kPa	

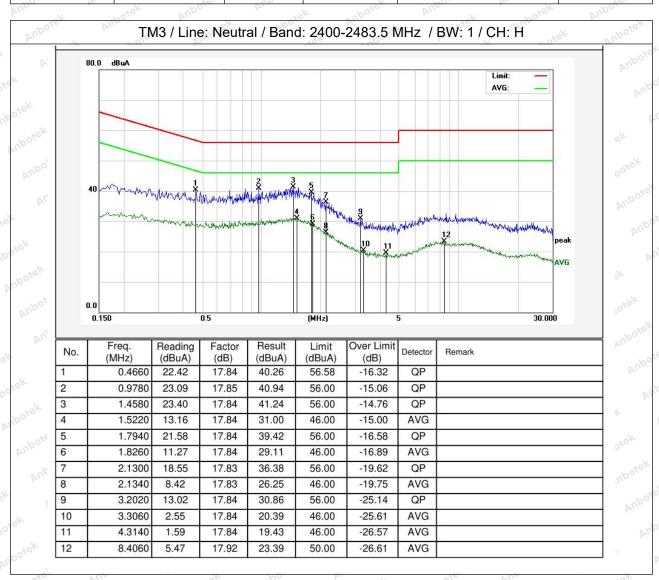






Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 16 of 39

Temperature: 21.4 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.







Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 17 of 39

4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit: Anbotek 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.
Anbotek	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. 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 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. d) Step a) through step c) might require iteration to adjust within the specified range.
Anbotek Anbotek	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
otek Aupotek Au	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
Anbotek Anbotek Anbotek Anbotek Anbotek	trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the
k Anbotek Anbotek Anbot	total is reached; that frequency is recorded as the upper frequency. The 99% 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

4.1. EUT Operation

	Operating Envir	onment:	Anboiek	Aupo.	w. spotek	Anbore.	Yun	anboie
e)	Test mode:	1: TX-GFSK hopping) wit			ne EUT in co	ntinuously tra	ansmitting mode	(non-





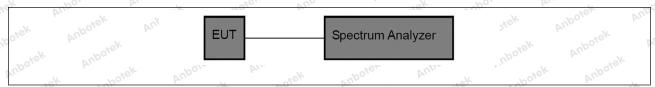


Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 18 of 39

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.

4.2. Test Setup



4.3. Test Data

Temperature:	25 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 19 of 39

5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	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
Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. 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 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.
	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

70	Operating Envi	nment: Anborek Anborek Anborek Anborek Anborek Anborek	.
7	Test mode:	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 mod (non-hopping) with π /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.	otek de mbote

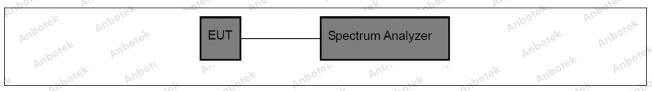






Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 20 of 39

5.2. Test Setup



5.3. Test Data

Temperature:	25 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
. 2/1. 2 . 2 . 2 . 2	=0 0		11 1/2	, m	10.111





Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 21 of 39

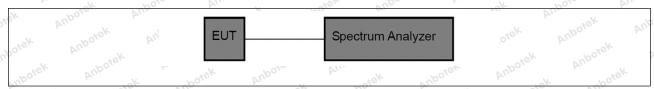
6. Channel Separation

india in its	1 700, W. A. 2046, W.D. 1 36K 700,
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek 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.
Test Method:	ANSI C63.10-2020, section 7.8.2
Anborek	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.

6.1. EUT Operation

Operating Envi	ronment:	Anbe	apoiek	Aupor	Ar. hotek	Anbo
Test mode:	4: TX-GFSK (Hopping): with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping) with π/4 DQP 6: TX-8DPSK (Hopping with 8DPSK modulation	ping): Keep the SK modulation.): Keep the EUT	EUT in cont	inuously trar	smitting mode	ek K

6.2. Test Setup



6.3. Test Data

Temperature:	25 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
17	1.010	,	"SL "(0,	1 17 1/2	0,10









Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 22 of 39

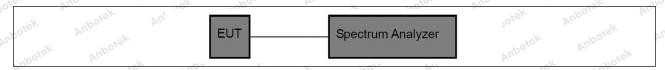
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: 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
Anborek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

7.1. EUT Operation

Operating Envi	ronment: Anbores Anbores Anbores Anbores Anbores
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.

7.2. Test Setup



7.3. Test Data

Temperature:	25 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 23 of 39

8. Dwell Time

inpos Aria	Thotak Augo K Mark Augore All sak abotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek 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 7.8.4
Anbotek Anbotek Anbotek Anbotek Anbotek	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.
	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.
Procedure:	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per hop: 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. 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. e) Detector function: Peak. f) Trace: Clear-write, single sweep.
k Anbotek Anbo	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









Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 24 of 39

these two markers.

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

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

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

8.1. EUT Operation

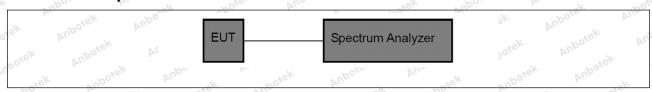
Operating Environment:

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

Test mode:

- 5: TX- 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

4	Temperature:	25 °C	Humidity: 47	% And	Atmospheric Pressure:	101 kPa	035







Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 25 of 39

9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek Anbotek Test Limit: Anbotek Anbotek 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
	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 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.
	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 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:	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 measurements a separate spectral plot showing the in-band level shall be provided.
	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







Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 26 of 39

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.

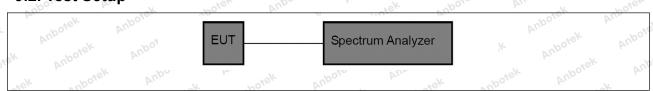
9.1. EUT Operation

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.
- 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

Test mode:



9.3. Test Data

Ten	nperature:	25 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 27 of 39

10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also compecified in § 15.209(a)(see § 15.2	ly with the
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
ok spotek	0.009-0.490	2400/F(kHz)	300
inpose Aug	0.490-1.705	24000/F(kHz)	30
hotek Anbo.	1.705-30.0	30	30
Ant sk shotek	30-88	100 **	3,ek Anbore
Anbort All	88-216	150 **	3
soiek Anbor	216-960	200 **	3
Test Limit:	Above 960	500 ragraph (g), fundamental emissi	MOSE. MU
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9–sion limits in
Test Method:	ANSI C63.10-2020 section	6.10° Anbote Anbote	3k Aupotek
Procedure:	ANSI C63.10-2020 section	6.10.5.2	otek Anbotek

10.1. EUT Operation

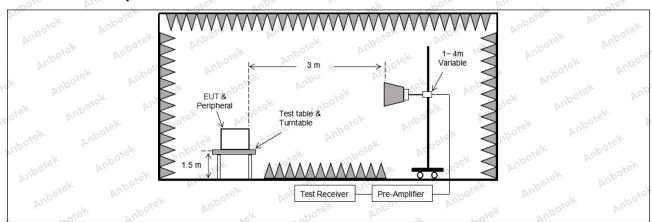
Operating Envi	ronment: And
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.





Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 28 of 39

10.2. Test Setup



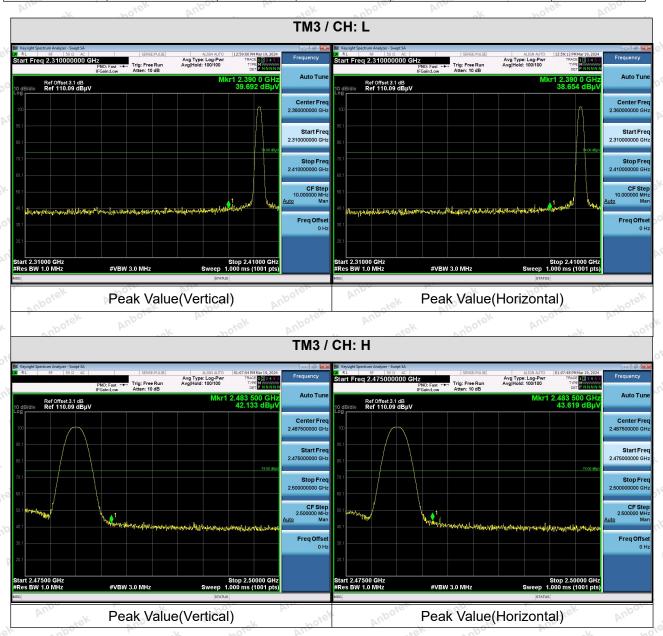




Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 29 of 39

10.3. Test Data

Temperature: 25 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



Remark

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







Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 30 of 39

11. Emissions in frequency bands (below 1GHz)

Test Requirement:		In addition, radiated emissions d in § 15.205(a), must also comp	
anbotek Anbo.		ecified in § 15.209(a)(see § 15.2	
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. A. Siek	0.009-0.490	2400/F(kHz)	300 Mbore
abotek Anbo	0.490-1.705	24000/F(kHz)	30
All Spotek	1.705-30.0	30	30
Aupor Ar.	30-88	100 **	3.ek
hotek Anbo.	88-216	150 **	3
Ans	216-960	200 **	3botel And
K Aupon Air	Above 960	500 Lorek Anborr	3 30%
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-page 110–490 kHz, and a	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt§ 15.231 and 15.241. In the tighter limit applies at the bin the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section	6.6.4	ak Aupoles
Procedure:	ANSI C63.10-2020 section	6.6.4 And	otek Anbotek

11.1. EUT Operation

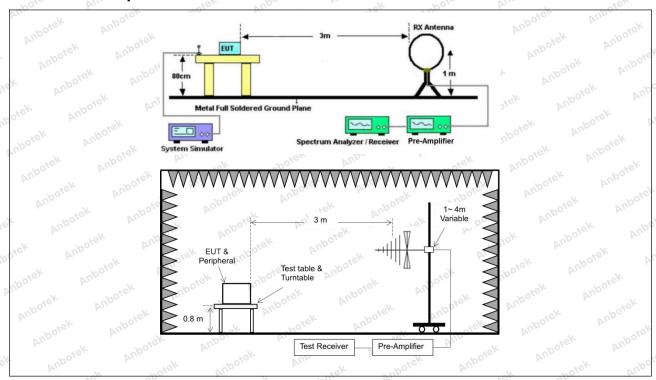
Operating Envi	ronment: And
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.





Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 31 of 39

11.2. Test Setup





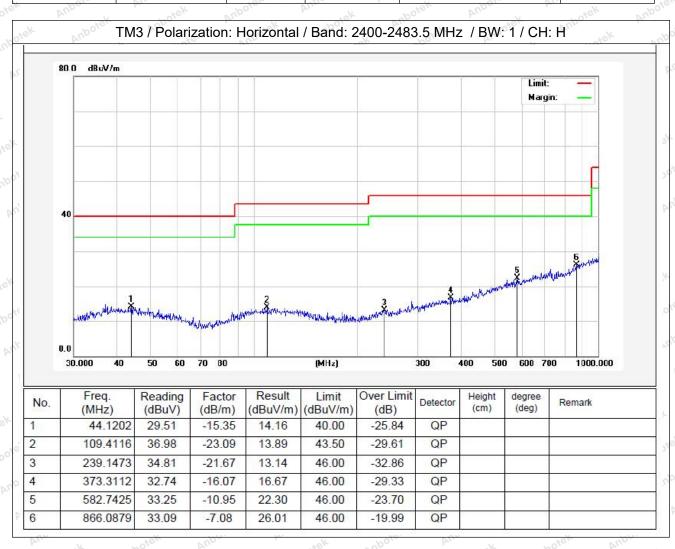


Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 32 of 39

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:	23.5 °C	VUP,	Humidity:	55%	Atmo	spheric Pres	ssure:	101 kPa

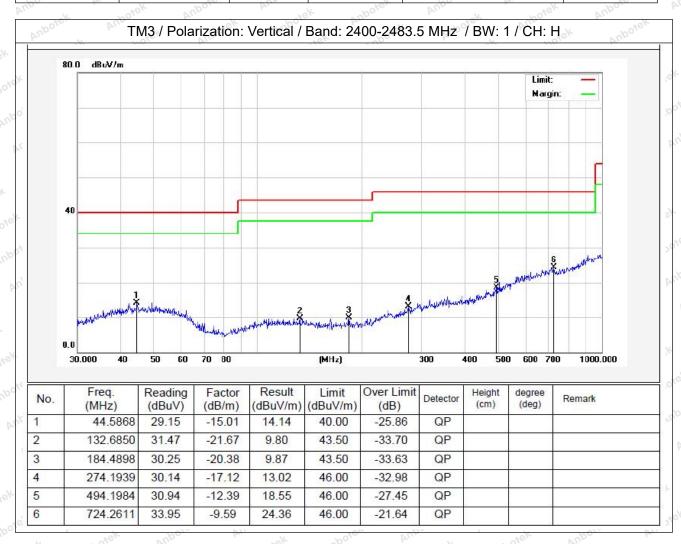






Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 33 of 39

Temperature: 23.5 °C Humidity: 55 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.









Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 34 of 39

12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ions which fall in the restricted be comply with the radiated emission	
otek Aupotek Vupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbotek Anbotek	0.009-0.490 0.490-1.705 1.705-30.0	2400/F(kHz) 24000/F(kHz) 30	300 30 30
Anbotek Anbotek	30-88 88-216	100 **	3
k Anbotek Anbo	216-960 Above 960	200 ** 500	3 ofer And
Test Limit: Anbotek Anbotek	intentional radiators operating frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-90 kHz, 110–490 kHz and these three bands are basidetector.	e, the tighter limit applies at the to in the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	pe located in the 470-806 MHz. Ited under other pand edges. Improvements when the pands 9— sesion limits in
Test Method:	ANSI C63.10-2020 section	6.6.4	ek Aupole
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbour	otek Anboten

12.1. EUT Operation

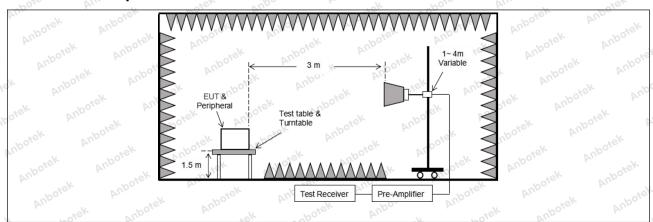
Operating Envi	ronment: And
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.





Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 35 of 39

12.2. Test Setup







FCC ID: AUSCR3039AV3 Report No.: 18220WC40044901 Page 36 of 39

12.3. Test Data

Temperature: 25 °C Humidity: 47 % Atmospheric Pressure	101 kPa
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AUL	Potek Aup	D. N.	siek soboří	Ans.	ok hotek	Aupo.
		•	TM3 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.34	15.27	43.61	74.00	-30.39	Vertical
7206.00	29.31	18.09	47.40	74.00	-26.60	Vertical
9608.00	30.53	23.76	54.29	74.00	-19.71	Vertical
12010.00	Aupole * A	iek.	abotek Anb	74.00	otek Anboti	Vertical
14412.00	*Upo*sk	Anbo.	Polsk !	74.00	rick on	Vertical
4804.00	28.62	15.27	43.89	74.00	-30.11	Horizontal
7206.00	29.91	18.09	48.00	74.00	-26.00	Horizontal
9608.00	28.74	23.76	52.50	74.00	-21.50	Horizontal
12010.00	otek * Vupo	-V 50	ick Aupote	74.00	botek	Horizontal
14412.00	hotek* An	DOJE VILL	atek anb	74.00	ok hote	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4804.00	17.72	15.27	32.99	54.00	-21.01	Vertical
7206.00	18.34	18.09	36.43	54.00	-17.57	Vertical
9608.00	19.55	23.76	43.31	54.00	-10.69	Vertical
12010.00	work.	Aupote. Au	sek .	54.00	A Pr	Vertical
14412.00	And *	, upotek	Aupo.	54.00	Pur Yun	Vertical
4804.00	16.97	15.27	32.24	54.00	-21.76	Horizontal
7206.00	18.97	18.09	37.06	54.00	-16.94	Horizontal
9608.00	18.05	23.76	41.81	54.00	-12.19	Horizontal
12010.00	rek *	otek Wipor	-K ~0,	54.00	And	Horizontal
14412.00	4 ×	wiek ant	ote And	54.00	ek Vupor	Horizontal



Page 37 of 39 Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3

				hotek	Anbor	rek
		•	ГМ3 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.36	15.42	43.78	74.00	-30.22	Vertical
7323.00	29.16	18.02	47.18	74.00	-26.82	Vertical
9764.00	29.54	23.80	53.34	74.00	-20.66	Vertical
12205.00	ek * nbotek	Anbo.	hotek	74.00	And	Vertical
14646.00	* * *	tek Aupote	Pur Vie	74.00	Vupo.	Vertical
4882.00	28.32	15.42	43.74	74.00	-30.26	Horizontal
7323.00	29.90	18.02	47.92	74.00	-26.08	Horizontal
9764.00	28.44	23.80	52.24	74.00	-21.76	Horizontal
12205.00	* otek	Anbore.	And	74.00	YUPO, UK	Horizontal
14646.00	P.T.	nbotek	Aupo.	74.00	Anboid	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.45	15.42	32.87	54.00	-21.13	Vertical
7323.00	18.44	18.02	36.46	54.00	-17.54	Vertical
9764.00	19.41	23.80	43.21	54.00	-10.79	Vertical
12205.00	k *upote	N Diek	anboter	54.00	aboiek	Vertical
14646.00	otek * Anboti	And	sk spojek	54.00	Ri. Lotek	Vertical
4882.00	16.88	15.42	32.30	54.00	-21.70	Horizontal
7323.00	18.53	18.02 An	36.55	54.00	-17.45	Horizontal
9764.00	18.56	23.80	42.36	54.00	11.64 M	Horizontal
12205.00	Anb*o*en	Anb rek	botek	54.00	-otek D	Horizontal
14646.00	* botek	Anbo	D. C. C.	54.00	And	Horizontal





Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 38 of 39

en Aug	rick	anbor	Dir.	hoter	AUD	rick
		٦	ГМ3 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.63	15.58	44.21	74.00	-29.79	Vertical
7440.00	29.17	17.93	47.10	74.00	-26.90	Vertical
9920.00	30.09	23.83	53.92	74.00	-20.08	Vertical
12400.00	* P*	Aupolei	And	74.00	Aupo,	Vertical
14880.00	* Vup	iek upołek	Aupo.	74.00	Aupore	Vertical
4960.00	28.39	15.58	43.97	74.00	-30.03	Horizontal
7440.00	29.93	17.93	47.86	74.00	-26.14	Horizontal
9920.00	29.12	23.83	52.95	74.00	-21.05	Horizontal
12400.00	AUD * * * * * * * * * * * * * * * * * * *	abotek	Aupo,	74.00	Aupote, Au	Horizontal
14880.00	V.Apo,	Notek Notek	Anbores	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.57	15.58	34.15	54.00	-19.85	Vertical
7440.00	19.45	17.93	37.38	54.00	-16.62	Vertical
9920.00	19.96	23.83	43.79	54.00	-10.21	Vertical N
12400.00	k * spojek	Aupo,	hotek	54.00	Aug	Vertical
14880.00	* * *	sk Vupoje.	Aug	54.00	Vupo.	Vertical
4960.00	18.32	15.58	33.90	54.00	-20.10	Horizontal
7440.00	19.90	17.93	37.83 M	54.00	-16.17 ote	Horizontal
9920.00	18.46	23.83	42.29	54.00	-11.71	Horizontal
12400.00	* tek	Aupoles	Vur.	54.00	po, by	Horizontal
14880.00	An*	^{oupotek}	Aupo	54.00	Anboto	Horizontal

Remark:

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







Report No.: 18220WC40044901 FCC ID: AUSCR3039AV3 Page 39 of 39

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

