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FCC Test Report

Applicant : Thien Thanh Dat JSC

Address 32 Binh Long str., Phu Thanh ward, Tan Phu

district, Ho Chi Minh city, Vietnam

Product Name : Portable Karaoke Speaker

Report Date : May 17, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









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TEST REPORT

Applicant : Thien Thanh Dat JSC

Manufacturer : Thien Thanh Dat JSC

Product Name : Portable Karaoke Speaker

Test Model No. : DS-115XP

DS-115XPro, DS-415XP, DS-415XPro, DS-515X, DS-515XP, DS-515XPro, DS-615X, DS-615XP, DS-615XPro, DS-715X, DS-715XPro, DS-815XPro, DS-815XPro, DS-915XP, DS-915XPro, DS-112XPro, DS-412XPro, DS-412XPro, DS-512X,

Reference Model No. : DS-512XP, DS-512XPro, DS-612X, DS-612XP, DS-612XPro, DS-712X,

DS-712XP, DS-712XPro, DS-812X, DS-812XP, DS-812XPro, DS-912X, DS-912XP, DS-912XPro, DS-118XP, DS-118XPro, DS-518XP, DS-518XPro, DS-618XPro, DS-618XPro, DS-718XPro, DS-718XPro, DS-818XPro, DS-818XPro

DS-818Xpro, DS-918XP, DS-918XPro

Trade Mark : Dalton

Rating(s) : Input: AC 120V/60Hz, 3A (with DC 12V, 14000mAh 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:	Apr. 15, 2024
hotek Anbotek Anbo	
Date of Test:	Apr. 15, 2024 to Apr. 25, 2024
	Ella Liang
Prepared By:	stek Aupoter And
otek Anbotek Anbotek Anbotek Anb	(Ella Liang)
	up votek votek votek votek
	Idward pan
Approved & Authorized Signer:	tek abotek Anbo
	Anbo (Edward Daniel Ans









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Revision History

Report Version	Description	Issued Date		
Anbore R00 potek An	Original Issue.	May 17, 2024		
W. Aupotek Aupotek	Anbotek Anbotek Anbotek	Anbotek Anbotek Anb		
ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anbotek		





Report No.: 18220WC40076001

1. General Information

1.1. Client Information

Applicant	:	Thien Thanh Dat JSC
Address	:	32 Binh Long str.,Phu Thanh ward,Tan Phu district, Ho Chi Minh city, Vietnam
Manufacturer	:	Thien Thanh Dat JSC
Address	:	32 Binh Long str.,Phu Thanh ward,Tan Phu district, Ho Chi Minh city, Vietnam
Factory	:	Thien Thanh Dat JSC
Address	:	32 Binh Long str.,Phu Thanh ward,Tan Phu district, Ho Chi Minh city, Vietnam

1.2. Description of Device (EUT)

Product Name	:	Portable Karaoke Speaker
Test Model No.	:	DS-115XP
Reference Model No.	:	DS-115XPro, DS-415XP, DS-415XPro, DS-515X, DS-515XP, DS-515XPro, DS-615X, DS-615XP, DS-615XPro, DS-715XPro, DS-815XP, DS-815XPro, DS-915XPro, DS-915XPro, DS-915XPro, DS-112XPro, DS-412XPro, DS-412XPro, DS-512X, DS-512XP, DS-512XPro, DS-612X, DS-612XP, DS-612XPro, DS-712XP, DS-712XPro, DS-812X, DS-812XP, DS-812XPro, DS-912X, DS-912XP, DS-912XPro, DS-118XPro, DS-118XPro, DS-518XPro, DS-618XPro, DS-718XPro, DS-518XPro, DS-918XP, DS-918XPro, DS-918XPro (Note: All samples are the same except the model number and appearance color, so we prepare "DS-115XP" for test only.)
Trade Mark	:	Dalton potek Anbour Anbour Anbour Anbour
Test Power Supply	:	AC 120V/60Hz, DC 12V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A tek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anborek Anborek Anborek Anborek Anborek Anborek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-0.58dBi
Remark:		stek "Upour burn ok hotes burn ste

- (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 Ùser's Manual.







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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer Model No.		Title Manufacturer Model No.		Serial No.
Anborek / Anbore	And Tek Upotek	Aupo, A Air bolek	Anbote. Anb		







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1.4. Operation channel list

Operation Band:

aliu.	br.	roje.	VUP	You	2p0.	hr.
Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2402	20 000	2422	40	2442,000	60	2462
2403	21 nd	ote ^k 2423 kn ^{bo}	41	otel 2443 And	61 And	2463
2404	22	2424	42	2444	62 f	2464
2405	23	2425	43	2445	63	2465
2406	24 rek	2426	44	2446	64	2466
2407	25	2427	45	2447	65 both	2467
2408 (botto	26	2428 ANDO	46 Anbo	2448	iek 66 Pup	2468
2409 M	27	2429	o ^{tel} 47 An	2449	botel 67	2469
2410	28	2430	48	2450	68	2470
2411	29 And 29	2431	49	2451	69	2471
2412	30	2432	50	2452	70 botek	2472
2413	31 nb	2433	K 51 _{Anbot}	2453	ek 71 Anbo	2473
2414	32 And	2434	otek 52 Ant	2454	otek72	2474
2415	100 ¹⁰ 33	2435	53	2455	73	2475
2416	34	2436	54	2456	74	2476
2417	35	2437	55	2457	75 of the K	2477
2418	36	2438	56 nbote	2458	76	2478
2419	ek 37 Anbo	2439	otek 57 Anb	2459	77 T	otel 2479 pho
2420	orel 38 M	2440	58	2460	78	2480
2421	39	2441	59	2461	Aupo.	, upotek
	Frequency (MHz) 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420	Frequency (MHz) Channel 2402 20 2403 21 2404 22 2405 23 2406 24 2407 25 2408 26 2409 27 2410 28 2411 29 2412 30 2413 31 2414 32 2415 33 2416 34 2417 35 2418 36 2419 37 2420 38	Frequency (MHz) Channel Frequency (MHz) 2402 20 2422 2403 21 2423 2404 22 2424 2405 23 2425 2406 24 2426 2407 25 2427 2408 26 2428 2409 27 2429 2410 28 2430 2411 29 2431 2412 30 2432 2413 31 2433 2414 32 2434 2415 33 2435 2416 34 2436 2417 35 2437 2418 36 2438 2419 37 2439 2420 38 2440	Frequency (MHz) Channel Frequency (MHz) Channel 2402 20 2422 40 2403 21 2423 41 2404 22 2424 42 2405 23 2425 43 2406 24 2426 44 2407 25 2427 45 2408 26 2428 46 2409 27 2429 47 2410 28 2430 48 2411 29 2431 49 2412 30 2432 50 2413 31 2433 51 2414 32 2434 52 2415 33 2435 53 2416 34 2436 54 2417 35 2437 55 2418 36 2438 56 2419 37 2439 57 2420 38	Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) 2402 20 2422 40 2442 2403 21 2423 41 2443 2404 22 2424 42 2444 2405 23 2425 43 2445 2406 24 2426 44 2446 2407 25 2427 45 2447 2408 26 2428 46 2448 2409 27 2429 47 2449 2410 28 2430 48 2450 2411 29 2431 49 2451 2412 30 2432 50 2452 2413 31 2433 51 2453 2414 32 2434 52 2454 2415 33 2435 53 2455 2416 34 2436 54 2456	Frequency (MHz) Channel (MHz) Frequency (MHz) Channel (MHz) Chanle (MHz) Chanle (MHz) Chanle (MHz) Chanle





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1.5. Description of Test Modes

Pretest Modes	Descriptions
Anborek TM1 (bores	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4 ek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anborek TM5 polek	Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.
Anbotek TM6 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dBek Anborek Anborek
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB botek Anbote Ambote Anbote
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dBrek Anborek Anborek
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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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	P
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





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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

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





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1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k hotel	Anbore	Andrek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
30t	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alooiek	Anborek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Ite	em	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
rek	1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	ootek N/A	2023-10-16	2024-10-15
door	2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
Pul	30 ^{1/8}	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
	4.n ^b	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
	5 -	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
18 K	6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

Hotline



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	edge emissions (Ra sions in frequency ba		Aupotek	Anborek	Aupotek	Anborek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 0.0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
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 ¹ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emis	sions in frequency ba	ands (below 1GHz)	Anbore	Andhotek	Anboiek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antotel	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





Shenzhen Anbotek Compliance Laboratory Limited



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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 -0.58dBi. It complies with the standard requirement.





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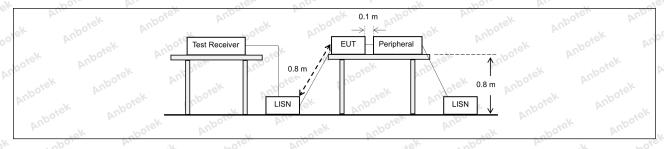
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the result back onto the AC power line on are band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage than my frequency or frequencient t exceed the limits in the f	nected to the at is conducted es, within the ollowing table, as
spotek Anboy	Frequency of emission (MHz)	Conducted limit (dBµV)	i stek
YII.	Anbore Anbore	Quasi-peak	Average
Aupor Ar.	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56. An	46
VII.	5-30 And 5	60	50 PER AND
k Aupor K Ai.	*Decreases with the logarithm of t	he frequency.	
Test Method:	ANSI C63.10-2020 section 6.2	Anbores.	Aug
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		

3.1. EUT Operation

Operating Envi	ronment:	Aupore	Pur Potek	Anbotek	Vupo,	anboick .	Aupore
Test mode:	hopping) wit 2: TX-π/4-D	h GFSK mod QPSK (Non-	dulation. Hopping): K	eep the EUT	ntinuously trans in continuously	P.U.P.	ek .
Anborek Anb	(non-hoppin 3: TX-8DPS hopping) wit	K (Non-Hop	oing): Keep t		ontinuously tran	nsmitting mo	de (non-

3.2. Test Setup



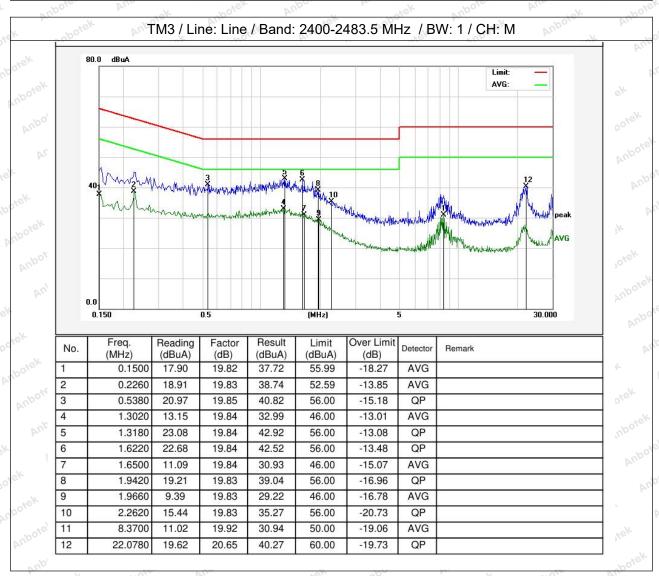




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3.3. Test Data

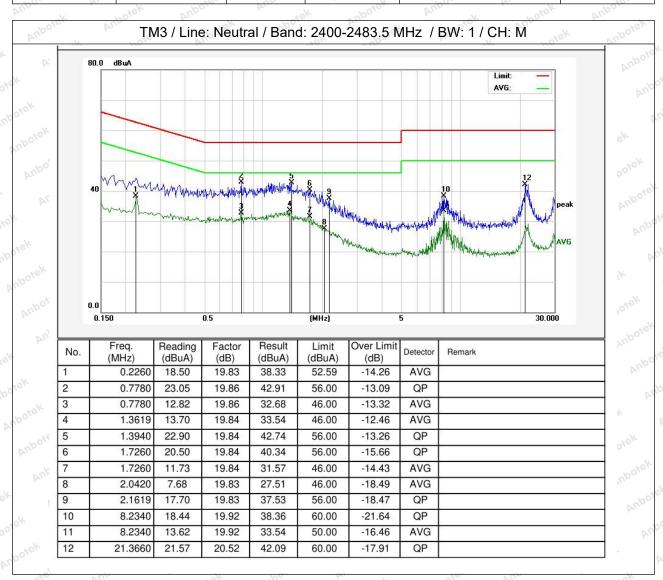
Temperature: 22.1 °C	Temperature:	54.6 % Atmospheric I	essure: 101 kPa
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Temperature: 22.1 °C Humidity: 54.6 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(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. KDB 558074 D01 15.247 Meas Guidance v05r02
stek Anbotek Ant	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.
Anbotek Anbote	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.
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.
potek 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. 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% power bandwidth is the difference between these two frequencies.
Anbotek Anbotek	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 the plot(s).

4.1. EUT Operation

Operating Environment:







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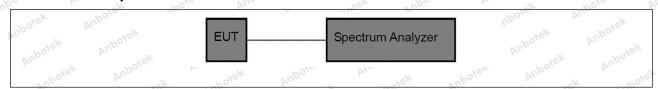
1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.

Test mode:

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

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

Please Refer to Appendix for Details.





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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	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
potek Aupotek A	bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

5.1. EUT Operation

Operating Envi	ronment: Anbore And tek anborek Anborek Anborek
k Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Test mode:	2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
Anbotek Anbo	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

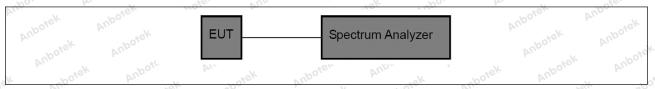






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5.2. Test Setup



5.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
. 2/0.12 2 : 2:12:12.12	=0.0		11 1/2	, m	10.111

Please Refer to Appendix for Details.





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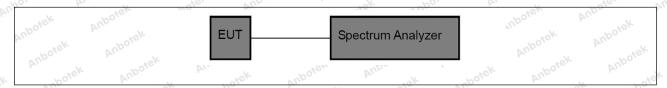
6. Channel Separation

upo, w.	Poles My Her Who, W. W. W. Poles
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek Anbotek 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 KDB 558074 D01 15.247 Meas Guidance v05r02
tek Aupotek Aupotek Aupotek Aupotek	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.
Procedure:	 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.
Anbotek Anbotek Anbotek Anbotek	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 Env	ronment: Anbotek Anbotek Anbotek Anbotek
Anbotek Anb	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.
Anbore	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

6.2. Test Setup









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6.3. Test Data

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

Please Refer to Appendix for Details.





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7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbot	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:	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:
Anboten Anb	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.
ek Aupotek	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

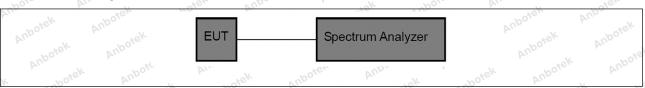






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7.2. Test Setup



7.3. Test Data

10	Tomporaturo	25.5 °C	Humidita	47 %	Atmospheric Pressure:	101 kPa
	Temperature:	25.5 6	Humidity:	47 70	Aunosphenc Flessure.	101 kPa

Please Refer to Appendix for Details.





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8. Dwell Time

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 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
ek 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:
Anbotek Anbotek	 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.









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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 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:

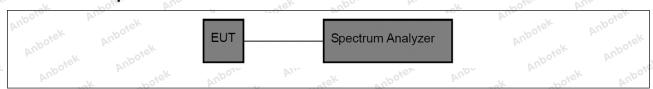
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..

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

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







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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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
Anbotek	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
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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: Procedure Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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.
botek 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







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standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

7.8.7.2 Band-edges

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

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

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

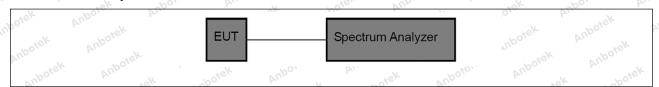
9.1. EUT Operation

Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- 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:









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9.3. Test Data

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

Please Refer to Appendix for Details.





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10. Band edge emissions (Radiated)

hotek Anbote		, In addition, radiated emissions	
Test Requirement:		d in § 15.205(a), must also comp	
Aupore Aur	radiated emission limits spe	ecified in § 15.209(a)(see § 15.2	05(c)).`
botek Anbo	Frequency (MHz)	Field strength	Measurement
	octor Aupo	(microvolts/meter)	distance
	Tok abotek And	Anbor	(meters)
	0.009-0.490	2400/F(kHz)	300
pote, And	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30 kg	30
Anbe K hotek	30-88	100 **	3,ek Anbore
	88-216	150 **	3
	216-960	200 **	3bore, Aug
	Above 960	500	3 rek on
	frequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-190 kHz, 110–490 kHz and a	ing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permit less 15.231 and 15.241. The tighter limit applies at the less in the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. ted under other pand edges. measurements quency bands 9— ssion limits in
ore And	detector.	Tok Spore, And	-k hotek
Test Method:	ANSI C63.10-2020 section		
And World Color	KDB 558074 D01 15.247 N	Meas Guidance v05r02	
Procedure:	ANSI C63.10-2020 section	6.10.5.2	nbotel Anbote

10.1. EUT Operation

o'	Operating Envir	ronment: And Andrew Andrew Andrew
70	potek Anbou	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
	Test mode:	2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
F		3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

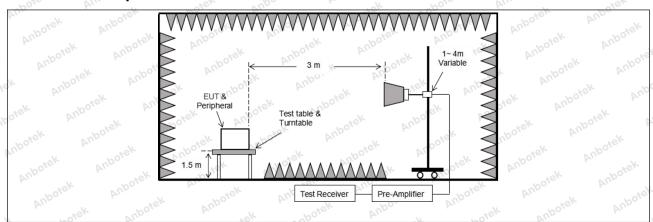






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10.2. Test Setup



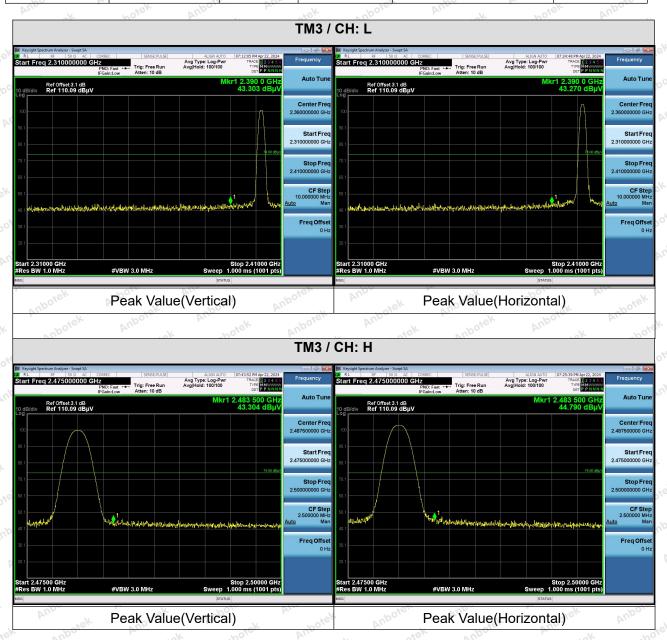




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10.3. Test Data

Temperature: 25.5 °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.







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11. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the
Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
potek Anbo	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30° AND CONTRACTOR	30
	30-88	100 **	3 ek nbote
	88-216	150 **	3
Air.	216-960	200 **	3botes And
	Above 960	500 mer Anbou	3
Test Limit:	intentional radiators operat	aragraph (g), fundamental emissing under this section shall not b	e located in the
Test Limit: otek Andorek	intentional radiators operat frequency bands 54-72 MH However, operation within a sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-190 kHz, 110–490 kHz and a these three bands are base	aragraph (g), fundamental emissing under this section shall not b dz, 76-88 MHz, 174-216 MHz or these frequency bands is permit	pe located in the 470-806 MHz. Ited under other pand edges. Improvements are guency bands 9—ssion limits in
Test Limit; otek Anbotek	intentional radiators operat frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-90 kHz, 110–490 kHz and a these three bands are base detector.	aragraph (g), fundamental emissing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permit is 15.231 and 15.241. The entire tighter limit applies at the being the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	pe located in the 470-806 MHz. Ited under other pand edges. Improvements are guency bands 9—ssion limits in
Test Method:	intentional radiators operat frequency bands 54-72 MH However, operation within a sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-190 kHz, 110–490 kHz and a these three bands are base	aragraph (g), fundamental emissing under this section shall not be dz, 76-88 MHz, 174-216 MHz or these frequency bands is permit § 15.231 and 15.241. The entire tighter limit applies at the being the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing 6.6.4	pe located in the 470-806 MHz. Ited under other pand edges. Improvements are guency bands 9—ssion limits in

11.1. EUT Operation

Operating Env	ronment: Arbotek Anbotek Anbotek Arbotek Ar
ubotek Vupor	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Test mode:	2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
Anbotek	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

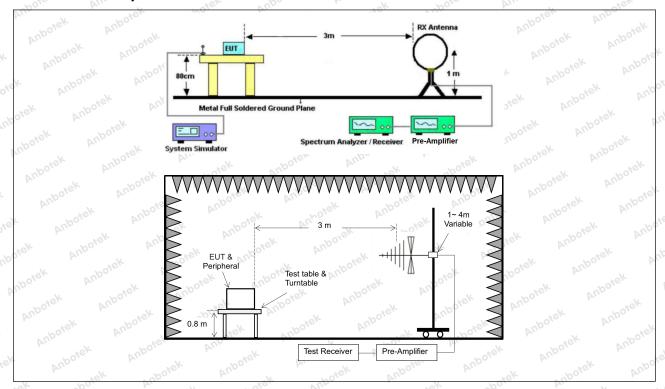






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11.2. Test Setup





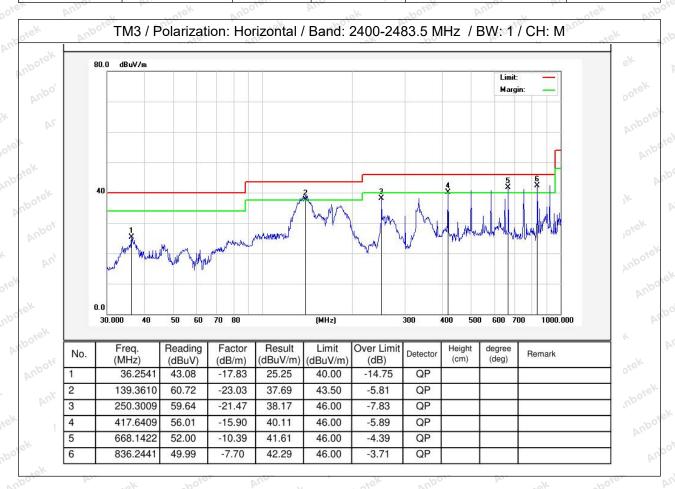


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11.3. Test Data

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

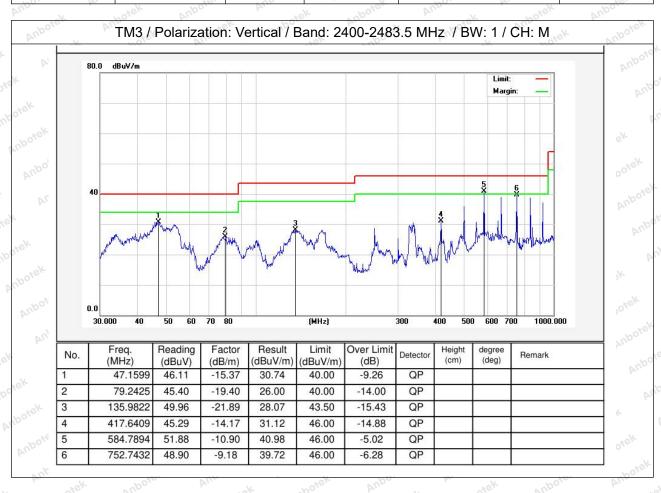
Temperature:	25.5 °C	AUL	Humidity:	47%	Atmospheric Pres	sure: 101 kPa
				70, 1	M. Lames Pinsins 1, 800	· • • · · · · · · · · · · · · · · · · ·





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



Note:Only record the worst data in the report.









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12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted back comply with the radiated emission 5(c)).`	
tek Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 0000
abotek Anbo	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3,ek above
	88-216	150 **	3
	216-960	200 **	3 boten And
	Above 960	500	3
	frequency bands 54-72 MH	ng under this section shall not b z, 76-88 MHz, 174-216 MHz or	
	sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-r 90 kHz, 110–490 kHz and a these three bands are base	hese frequency bands is permitt § 15.231 and 15.241. In the tighter limit applies at the based on beak detector except for the frequency 1000 MHz. Radiated emised on measurements employing	ed under other pand edges. measurements uency bands 9– ssion limits in
Anbotek	sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-r 90 kHz, 110–490 kHz and a these three bands are base detector.	§ 15.231 and 15.241. e, the tighter limit applies at the bin the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	ed under other pand edges. measurements uency bands 9– ssion limits in
Anbotek Anbote	sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-r 90 kHz, 110–490 kHz and a these three bands are base	§ 15.231 and 15.241. e, the tighter limit applies at the bin the above table are based on beak detector except for the frequebove 1000 MHz. Radiated emised on measurements employing	ed under other pand edges. measurements uency bands 9– ssion limits in

12.1. EUT Operation

Operating Env	rironment: orek Anborek Anborek Anborek Ar
upotek Aupo	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Test mode:	2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
Vi. Vipotek	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

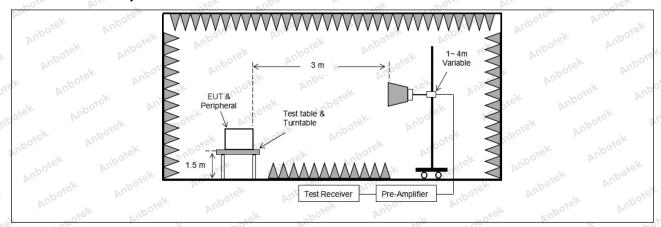






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12.2. Test Setup







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12.3. Test Data

Temperature: 2	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa	
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- No.	PO. VIII		TMO / OUL /	**	-k ₀₁₀	<i>b</i> 1
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	28.31	15.27	43.58	74.00	-30.42	Vertical
7206.00	29.28	18.09	47.37	74.00	-26.63	Vertical
9608.00	30.49	23.76	54.25	74.00	-19.75	Vertical
12010.00	Aupole * Al	49:	abotek Anb	74.00	otek Anboti	Vertical
14412.00	"Upo#sk	Aupo	hotek p	74.00	ick on	Vertical
4804.00	28.59	15.27	43.86	74.00	-30.14	Horizontal
7206.00	29.87	18.09	47.96	74.00	-26.04	Horizontal
9608.00	28.72	23.76	52.48	74.00	-21.52	Horizontal
12010.00	otek * Aupo	<i>y</i> 500	ick Vupose,	74.00	botek	Horizontal
14412.00	woick*	poter Amb	sek spc	74.00	-k hote	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	17.69	15.27	32.96	54.00	-21.04	Vertical
7206.00	18.31	18.09	36.40	54.00	-17.60	Vertical
9608.00	19.51	23.76	43.27	54.00	-10.73	Vertical
12010.00	A CHARLES	Aupoles Au	19.	54.00	N Pre-	Vertical
14412.00	And * * ek	abotek	Aupor Ar	54.00	Ipology Vup.	Vertical
4804.00	16.94	15.27	32.21	54.00	-21.79	Horizontal
7206.00	18.93	18.09	37.02	54.00	-16.98	Horizontal
9608.00	18.03	23.76	41.79	54.00	-12.21	Horizontal
12010.00	***	otek Aupor	N 201	54.00	Vup.	Horizontal
14412.00	4 ×	siek ont	Ole Vue	54.00	ek Aupos	Horizontal



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			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	28.33	15.42	43.75	74.00	-30.25	Vertical
7323.00	29.13	18.02	47.15	74.00	-26.85	Vertical
9764.00	29.50	23.80	53.30	74.00	-20.70	Vertical
12205.00	ek * spotek	Aupor	but hotek	74.00	Ans	Vertical
14646.00	*	lek Wupose	Pun Vie	74.00	Aupo	Vertical
4882.00	28.29	15.42	43.71	74.00	-30.29	Horizontal
7323.00	29.86	18.02	47.88	74.00	-26.12	Horizontal
9764.00	28.42	23.80	52.22	74.00	-21.78	Horizontal
12205.00	*otek	Vupoje.	Aug	74.00	YUPOT PET	Horizontal
14646.00	Art rek	anbotek	Aupo	74.00	Aupoter	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.42	15.42	32.84	54.00	-21.16	Vertical
7323.00	18.41	18.02	36.43	54.00	17.57 And	Vertical
9764.00	19.37	23.80	43.17	54.00	-10.83	Vertical
12205.00	k *upor	An Siek	anbotek	54.00	borek	Vertical
14646.00	otek * Anbot	And	ek spojek	54.00	bu. Poick	Vertical
4882.00	16.85	15.42	32.27	54.00	-21.73	Horizontal
7323.00	18.49	18.02	36.51	54.00	-17.49	Horizontal
9764.00	18.54	23.80	42.34	54.00	11.66 M	Horizontal
12205.00	Anb*otek	Aup	abořek	54.00	"Otek Di	Horizontal
14646.00	* "otek	Aupor	Z. rek	54.00	VUP.	Horizontal



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Su Vup.	rick	anbore	Dir.	hoter	Anba	atek.
		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	28.60	15.58	44.18	74.00	-29.82	Vertical
7440.00	29.14	17.93	47.07	74.00	-26.93	Vertical
9920.00	30.05	23.83	53.88	74.00	-20.12	Vertical
12400.00	* P*	anbore.	And	74.00	Anbo.	Vertical
14880.00	* Vup	iek upołek	Aupo.	74.00	Anbore	Vertical
4960.00	28.36	15.58	43.94	74.00	-30.06	Horizontal
7440.00	29.89	17.93	47.82	74.00	-26.18	Horizontal
9920.00	29.10	23.83	52.93	74.00	-21.07	Horizontal
12400.00	AUD * * * * * * * * * * * * * * * * * * *	abotek	Aupo,	74.00	Tupose, Vu	Horizontal
14880.00	Alapo, ak	Kotek	Anbores	74.00	anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.54	15.58	34.12	54.00	-19.88	Vertical
7440.00	19.42	17.93	37.35	54.00	16.65 M	Vertical
9920.00	19.92	23.83	43.75	54.00	-10.25	Vertical N
12400.00	k * spojek	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * %01	sk Aupotor	Aug	54.00	Aupo, ok	Vertical
4960.00	18.29	15.58	33.87	54.00	-20.13	Horizontal
7440.00	19.86	17.93	37.79 M	54.00	-16.21 oote	Horizontal
9920.00	18.44	23.83	42.27	54.00	-11.73	Horizontal
12400.00	* tek	Anbores	Vur.	54.00	po, by	Horizontal
14880.00	An*	anbotek	Aupo	54.00	Aupole	Horizontal

Remark:

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







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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 -----

