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FCC Test Report

Applicant : Boompods EU Sp. z o.o

Address : ul. Barbary 16 Granica 05-806 Komorów Poland

Product Name : True Wireless Earbuds

Report Date : Apr. 11, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited







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TEST REPORT

Applicant : Boompods EU Sp. z o.o

Manufacturer : Dongguan Linyar Technologg Co.,Ltd.

Product Name : True Wireless Earbuds

Test Model No. : Echobuds

Reference Model No. : ECHSAN, ECHPEP, ECHBLU, ECHBLK, ECHWHT

Trade Mark : BOOMPODS

Case Input: 5V-200mA

Rating(s) Single Earphone Input: 5V=40mA

Case Capacity: Lithium-ion: DC 3.7V, 230mAh

Single Earphone Capacity: Lithium-ion: DC 3.7V, 30mAh

Test Standard(s) 47 CFR Part 15.247 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. 19, 2024
Date of Test:	Mar. 19, 2024 to Mar. 29, 2024
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Prepared By:	Anborek Anborek Anborek Anbore
	(Ella Liang)
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Approved & Authorized Signer:	1900 Could for
oter Authorite Aubotek Aubote Au	(Edward Pan)





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Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Apr. 11, 2024
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1. General Information

1.1. Client Information

Applicant	:	Boompods EU Sp. z o.o
Address	:	ul. Barbary 16 Granica 05-806 Komorów Poland
Manufacturer	:	Dongguan Linyar Technologg Co.,Ltd.
Address	:	The third floor, building 2, No.4 Xitou East Road, Houjie Town, Dongguan, China
Factory	:	Dongguan Linyar Technologg Co.,Ltd.
Address	:	The third floor, building 2, No.4 Xitou East Road, Houjie Town, Dongguan, China

1.2. Description of Device (EUT)

Product Name		True Wireless Earbuds
Test Model No.	:	Echobuds Anbotek Anbotek Anbotek
Reference Model No.	:	ECHSAN, ECHPEP, ECHBLU, ECHBLK, ECHWHT (Note: ECHSAN(Echobuds -Sand color) ECHPEP(Echobuds -green color) ECHBLU(Echobuds- blue color) ECHBLK(Echobuds-black color) ECHWHT(Echobuds- white color)All samples are the same except the model number and color, so we prepare "Echobuds" for test only.)
Trade Mark	:	BOOMPODS
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 Anbotek Anbotek Anbotek Anbotek Anbo
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 both Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK
Antenna Type	:	Ceramic Antenna
Antenna Gain(Peak)	:	1.75dBiAnd

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Both the left and right ears of the headphones were tested, and only record the worst test data of the right ear.







1.3. Auxiliary Equipment Used During Test

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

1.4. Description of Test Modes

(0)	Pretest Modes	Descriptions
- Committee	nbotek ArTM1	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
	Anbores TM2	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
0	Anborek TM3 Anborek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
0	rek AnborTM4 Anborek	Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.

1.5. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Anbotek Anbotek
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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1.6. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anbote	Ant Potek
Conducted Emission at AC power line	Mode1,2	P
Occupied Bandwidth	Mode1,2	PART
Maximum Conducted Output Power	Mode1,2	P
Channel Separation	Mode3,4	hoo Pk
Number of Hopping Frequencies	Mode3,4	Anbor P rek
Dwell Time* Anborek Anborek Anborek	Mode3,4	P
Emissions in non-restricted frequency bands	Mode1,2,3,4	Pants
Band edge emissions (Radiated)	Mode1,2	P An
Emissions in frequency bands (below 1GHz)	Mode1,2	nboy P
Emissions in frequency bands (above 1GHz)	Mode1,2	Anbois P
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbore





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1.7. 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.

1.8. 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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1.9. Test Equipment List

Cond	ucted Emission at A	C power line				
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
tek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3,000	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alootek	Anborek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

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	potek 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	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

Hotline

www.anbotek.com.cn

400-003-0500



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ote.	And	stek rupo.	N. Ok	pote.	AUS	iek
	edge emissions (Ra sions in frequency ba		Anbore	Anboick	Aupotek	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	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
nboto. 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Anborek
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
re ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emiss	sions in frequency ba	ands (below 1GHz)				
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
4ntel	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, Noot	y Aupon	k Anbotek



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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 Ceramic Antenna which permanently attached, and the best case gain of the antenna is 1.75dBi. It complies with the standard requirement.





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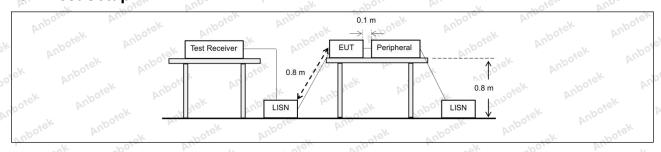
3. Conducted Emission at AC power line

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 that 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)				
ince otek unpotek	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 Envir	onment:	Anbo.	K %	ek Anbo	ie. Vu	rek	Anborek	Anbo.
, O	Test mode:	hopping) 2: TX-π/4	with GFSK -DQPSK (N	modulation lon-Hoppin	00, N	EUT in co	Vupote,	smitting mod y transmittin	. ak

3.2. Test Setup





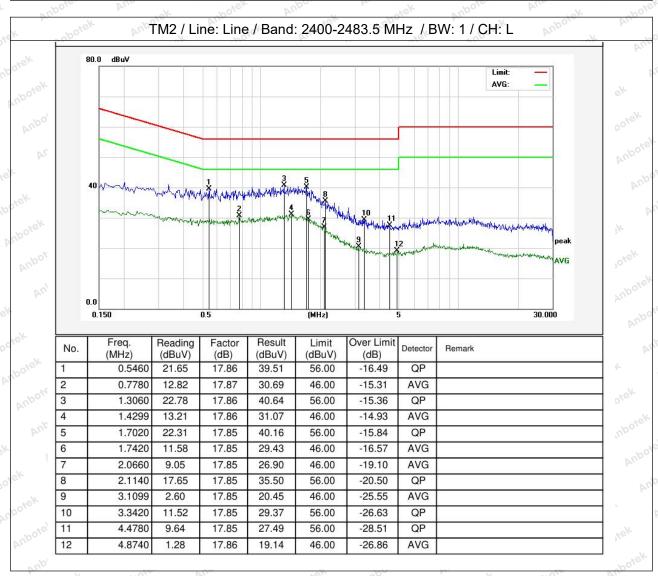
Hotline



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3.3. Test Data

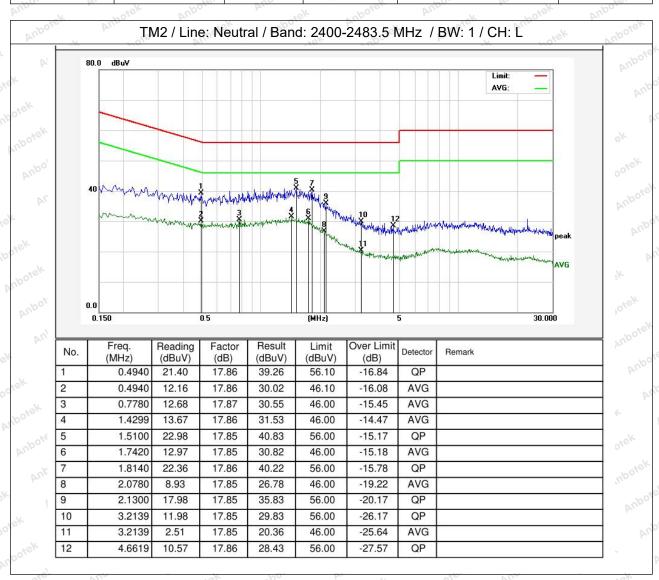
Temperature:	22.2 °C	Humidit	y: 56 %	abotel	Atmospheric Pressure:	101 kPa
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Temperature: 22.2 °C Humidity: 56 % Atmospheric Pressure: 101 kPa



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.
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.	Anbore.	Yun	anboie
e)	Test mode:	1: TX-GFSK hopping) wit			ne EUT in co	ntinuously tra	ansmitting mode	(non-



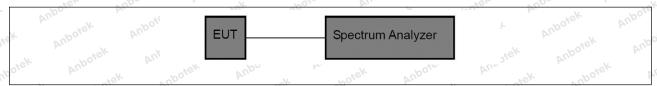




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2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.

4.2. Test Setup



4.3. Test Data

Temperature:	24 °C	Vupo _{te}	Humidity:	49 %	botek	Atmospheric Pres	ssure:	101 kPa
	V-0	for.	, , , , , , , , , , , , , , , , , , ,	X-0				The second secon





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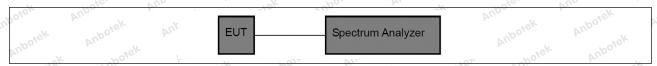
5. Maximum Conducted Output Power

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.
Procedure:	e) Detector function: Peak. 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.
Anbotek Anbotek Anbotek Anbotel	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

Operating Envi	ronment:	Aug	Anboick	Aupo	*e\	abotek	Aupore, K
Test mode:	1: TX-GFSK (No hopping) with G 2: TX-π/4-DQPS (non-hopping) w	FSK modulation SK (Non-Hoppin	n. ng): Keep th	e EUT in	Spotel	Anbo	k hotel

5.2. Test Setup



5.3. Test Data

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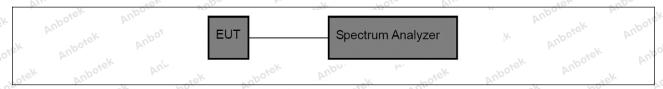
6. Channel Separation

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
Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel 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

4	Operating Envir	onment:	Aupole	Ann	, apo		2, B.	botek	Anbot
⁹ /c	Toot made: notel	3: TX-GFSK with GFSK m 4: TX-π/4-DG (hopping) wit	nodulation,. QPSK (Hopp	oing): Keep	the EUT i	up.	botek	Aupo.	. 0, 12,

6.2. Test Setup



6.3. Test Data

Temperature: 24 °C	C Humidity:	49 %	Atmospheric Pressure:	101 kPa
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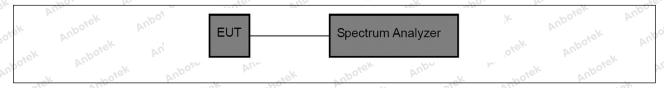
7. Number of Hopping Frequencies

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

_3	Operating Envir	onment:	bur	Anbores	Ando	Anbotek	Anbort	k been
77.	Test mode:	with GFSK r 4: TX-π/4-D	(Hopping): Ke modulation,. QPSK (Hoppir ith π/4 DQPSk	ng): Keep the	EUT in cor	HO AND	'da 49.	otek o,

7.2. Test Setup



7.3. Test Data

Temperature:	24 °C	Humidity: 4	19 %	Atmospheric Pressure:	101 kPa	Sir







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8. Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), 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
	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.
Anborek Anborek Anborek 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
	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. g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between









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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.

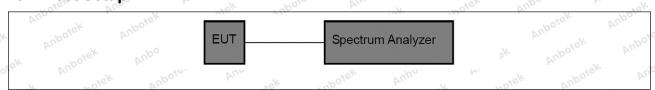
8.1. EUT Operation

Operating Environment:

Test mode:

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

8.2. Test Setup



8.3. Test Data

emperature: 24 °C	Humidity: 49 %	Atmospheric Pressure:	101 kPa
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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	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
Jotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	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.
	- And tek hotek Anbor K hotek Anbore An
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









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

7.8.7.2 Band-edges

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

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

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

9.1. EUT Operation

Operating Environment:

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

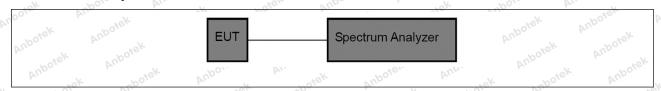
2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.

(non-hopping) with $\pi/4$ DQPSK modulation. 3: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.

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

9.2. Test Setup

Test mode:



9.3. Test Data

Temperature:	24 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa







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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

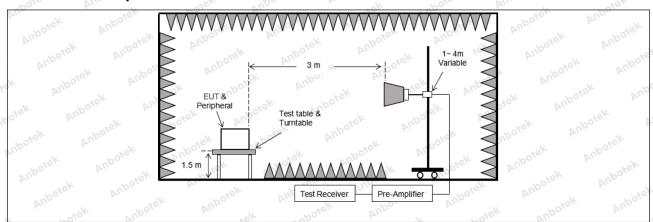
	Operating Envir	onment:	Aupo.	-boiek	Anbore.	And	npotek	Aupo
22	Test mode:	1: TX-GFSK (Nopping) with (2: TX-π/4-DQF (non-hopping)	GFSK mod PSK (Non-l	ulation. Hopping): Kee	p the EUT ir	iek vupoje,	And	.e.K





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10.2. Test Setup



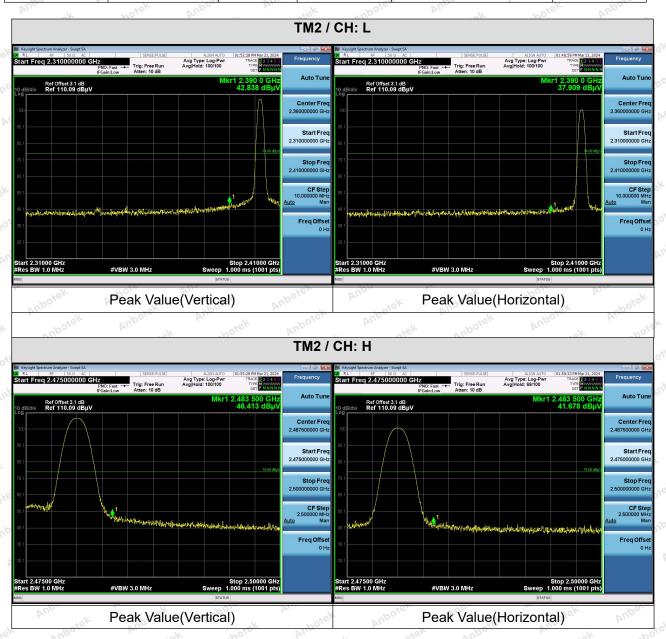




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10.3. Test Data

Temperature: 24 °C Humidity: 49 % 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 compecified in § 15.209(a)(see § 15.2	ly with the
otek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
otek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
hotek Anbotek	1.705-30.0	30° kek nbo	30
Vupotek Vupotek	30-88 88-216	100 ** 150 **	3
Anbotek Anbote	216-960 Above 960	200 ** 500	3 sek
Test Limit: 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	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 And	SK Wipole
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore	otek Anboten

11.1. EUT Operation

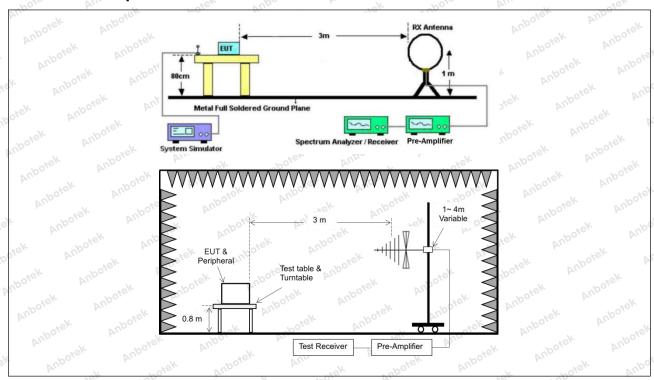
Operating Envi	ronment:	And	bojek		bir.	otek	Vupoter	And
Test mode:	1: TX-GFSK (N hopping) with (2: TX-π/4-DQP (non-hopping)	GFSK modi PSK (Non-H	ulation. opping): Keep	the EUT	rek		Ann	ak.





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11.2. Test Setup





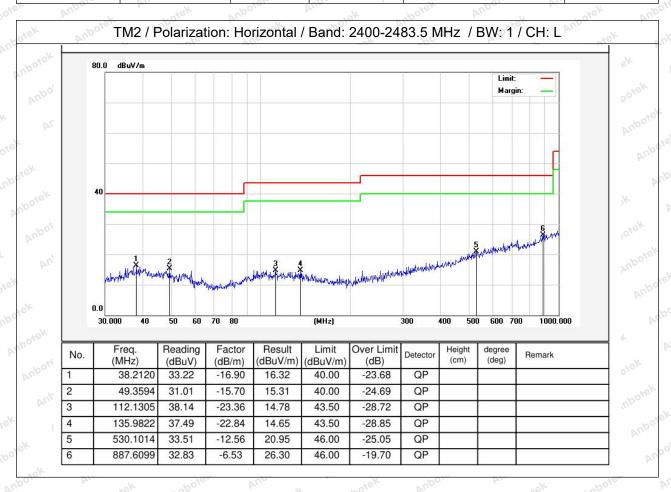


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11.3. Test Data

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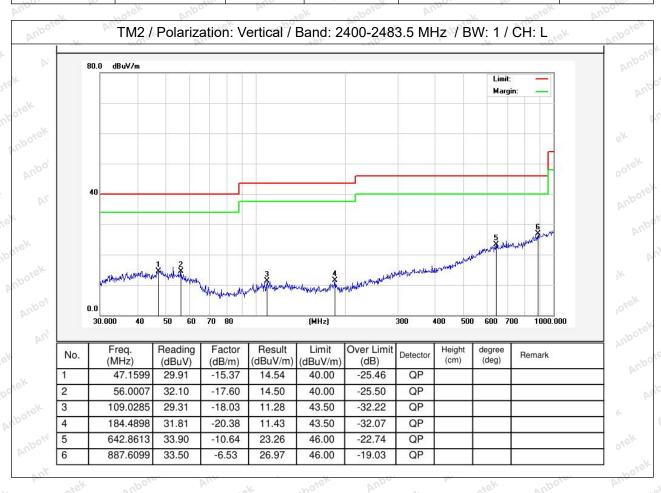






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Temperature: 23.5 °C Humidity: 55 % Atmospheric Pressure: 101 kPa



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 be omply with the radiated emission $\overline{b}(c)$.	
k Aupotek Vupo,	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 0000
inpoter Aug	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
Anbo	30-88	100 **	3 ek Anbore
	88-216	150 **	3
	216-960	200 **	3 poie. And
	Above 960	500 More Andre	3 rek
	frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above	e, the tighter limit applies at the b	470-806 MHz. ed under other
	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emised and on measurements employing	uency bands 9– sion limits in
Test Method:	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base	peak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	uency bands 9– sion limits in

12.1. EUT Operation

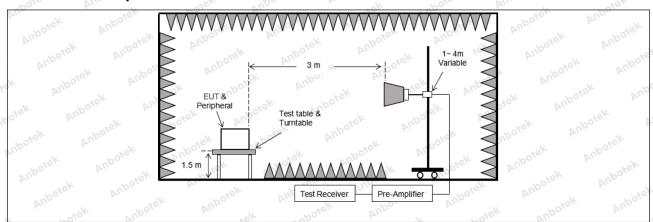
Operating Envi	ronment:	AUD	bojek		b.,	itek anb		Up.
Test mode:	1: TX-GFSK (Nopping) with (2: TX-π/4-DQF (non-hopping)	GFSK mod PSK (Non-l	ulation. lopping): Kee	p the EUT	otek or	nbote. P	'Up	





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12.2. Test Setup







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12.3. Test Data

- 2/2		VI.	~0~
Temperature: 24 °C	Humidity: 49 %	Atmospheric Pressure:	101 kDa
Temperature. 24 C	Tulliuity. 49 70 M	Alliosphenic Flessure.	IUIKFA 🔏

Aug	Potek Vup.	, k	rek noore	And	ok hojek	Aupo.
		·	TM2 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.71	15.27	43.98	74.00	-30.02	Vertical
7206.00	29.61	18.09	47.70	74.00	-26.30	Vertical
9608.00	30.96	23.76	54.72	74.00	-19.28	Vertical
12010.00	Anbore * Ar	19 × 19 ×	abotek Anb	74.00	otek Anbote	Vertical
14412.00	VUPO*SK	Anbo	Potek b	74.00	rick ork	Vertical
4804.00	28.96	15.27	44.23	74.00	-29.77	Horizontal
7206.00	30.35	18.09	48.44	74.00	-25.56	Horizontal
9608.00	28.90	23.76	52.66	74.00	-21.34	Horizontal
12010.00	otek * Anbo	7K 100	iek Anbore	74.00	s abotek	Horizontal
14412.00	hotek* An	DOJE ALL	riek anbo	74.00	ok hotel	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4804.00	18.09	15.27	33.36	54.00	-20.64	Vertical
7206.00	18.64	18.09	36.73	54.00	-17.27	Vertical
9608.00	19.98	23.76	43.74	54.00	-10.26	Vertical
12010.00	Notek	Aupote, Au	iek .	54.00	. Br.	Vertical
14412.00	Ant *	aboiek	Aupo.	54.00	ipole. Aug	Vertical
4804.00	17.31	15.27	32.58	54.00	-21.42	Horizontal
7206.00	19.41	18.09	37.50	54.00	-16.50	Horizontal
9608.00	18.21	23.76	41.97	54.00	-12.03	Horizontal
12010.00	tek *	otek Aupor	P. Post	54.00	YU _D	Horizontal
14412.00	, h	hotek Ant	oto Ame	54.00	ek Anbo	Horizontal





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ek Anbore				hotek		, ek
		1	ГМ2 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.73	15.42	44.15	74.00	-29.85	Vertical
7323.00	29.46	18.02	47.48	74.00	-26.52	Vertical
9764.00	29.97	23.80	53.77	74.00	-20.23	Vertical
12205.00	ek * nbotek	Aupo,	k. hotek	74.00	And	Vertical
14646.00	* * *	ick Aupole	Pus Ole	74.00	Anbo	Vertical
4882.00	28.66	15.42	44.08	74.00	-29.92	Horizontal
7323.00	30.34	18.02	48.36	74.00	-25.64	Horizontal
9764.00	28.60	23.80	52.40	74.00	-21.60	Horizontal
12205.00	*ořek	Anboie	Aug	74.00	YUPO, CK	Horizontal
14646.00	A.T. Stek	Anbotek	Aupo	74.00	Anbore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.82	15.42	33.24	54.00	-20.76	Vertical
7323.00	18.74	18.02	36.76	54.00	-17.24	Vertical
9764.00	19.84	23.80	43.64	54.00	-10.36	Vertical
12205.00	k *upor	N Diek	anbotek	54.00	botek	Vertical
14646.00	otek * Anbot	And	ek abotek	54.00	pi. cotek	Vertical
4882.00	17.22	15.42	32.64	54.00	-21.36	Horizontal
7323.00	18.97	18.02	36.99	54.00	-17.01	Horizontal
9764.00	18.72	23.80	42.52	54.00	11.48 AC	Horizontal
12205.00	anb*otek	Aupo 'Ck	abotek	54.00	otek	Horizontal
14646.00	* ~ ~ ~ *	Aupor	rek.	54.00	AUD	Horizontal







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EL VUD	iek .	"upo,	VII.	-poter	Aup	ate ^K
		٦	ГМ2 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.00	15.58	44.58	74.00	-29.42	Vertical
7440.00	29.47	17.93	47.40	74.00	-26.60	Vertical
9920.00	30.52	23.83	54.35	74.00	-19.65	Vertical
12400.00	* P*	anbore.	And	74.00	Aupo,	Vertical
14880.00	* Vup	iek upołek	Aupo.	74.00	Anbore.	Vertical
4960.00	28.73	15.58	44.31	74.00	-29.69	Horizontal
7440.00	30.37	17.93	48.30	74.00	-25.70	Horizontal
9920.00	29.28	23.83	53.11	74.00	-20.89	Horizontal
12400.00	AUD * * * * * * * * * * * * * * * * * * *	abotek	Aupo,	74.00	Aupore, 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	18.94	15.58	34.52	54.00	-19.48	Vertical
7440.00	19.75	17.93	37.68	54.00	-16.32 M	Vertical
9920.00	20.39	23.83	44.22	54.00	-9.78	Vertical N
12400.00	k * spojek	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * %01	sk Aupotor	Aug siek	54.00	Vupo,	Vertical
4960.00	18.66	15.58	34.24	54.00	-19.76	Horizontal
7440.00	20.34	17.93	38.27	54.00	-15.73	Horizontal
9920.00	18.62	23.83	42.45	54.00	-11.55	Horizontal
12400.00	* tek	Anbores	Vur.	54.00	Po. Bri	Horizontal
14880.00	An*	* Upotek	Aupo.	54.00	Anbore	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 -----

