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FCC Test Report

Applicant : ACCO Brands, Inc.

Address 4 Corporate Drive, Lake Zurich, Illinois 60047,

USA

Product Name : Kensington Vertical Wireless Mouse

Report Date : Jan. 27, 2024

Shenzhen Anbotek Con Anbotek



Laboratory Limited







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TEST REPORT

Applicant : ACCO Brands, Inc.

Manufacturer : ACCO Brands, Inc.

Product Name : Kensington Vertical Wireless Mouse

Test Model No. : M01500-MA

Reference Model No. : N/A

Trade Mark : Kensington

Rating(s) : Input: DC 1.5V by AA*1 battery

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.	NOV. 21, 2023
Date of Test:	Nov. 28, 2023 to Dec. 11, 2023
Anbotek Anbotek Anbotek Anbotek Anbo	Stellazhu
Prepared By:	Anbotek / Col Col Col Col Anbotek Anbotek
	(Stella Zhu)
	Idward pan
Approved & Authorized Signer:	ak potek Aupo, Air otek Mpot
k Anboren Anb	(Edward Pan)







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Revision History

Report Version	Description	Issued Date
Anbore R00 potek An	Original Issue.	Jan. 27, 2024
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ore Ambotek Anbotek	Anbotek Anbotek Anbot	rek Anbotek Anbotek





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1. General Information

1.1. Client Information

Applicant	:	ACCO Brands, Inc.
Address	:	4 Corporate Drive, Lake Zurich, Illinois 60047, USA
Manufacturer	:	ACCO Brands, Inc.
Address	:	4 Corporate Drive, Lake Zurich, Illinois 60047, USA

1.2. Description of Device (EUT)

Product Name	:	Kensington Vertical Wireless Mouse
Test Model No.	:	M01500-MA
Reference Model No.	:	ON/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek A
Trade Mark	:	Kensington Mark Andrew
Test Power Supply	:	DC 1.5V battery
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbo
RF Specification		
Operation Frequency	:	2408MHz to 2474MHz
Number of Channel	:	34 botek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSKotek Anbotek Anbotek Anbotek Anbotek Anbotek
Antenna Type		PCB Antenna Antone Anto
Antenna Gain(Peak)	:	2.21 dBi notes Andrew Andrew Andrew

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.





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1.3. Auxiliary Equipment Used During Test

Title Manufacturer		Model No.	Serial No.	
	Anbotek / Anboten	Ant Anbotek	Pupo, PK Burney	Anbore. / Anb

1.4. Operation channel list

Operation Band:

Operation 2	alles.		100	100. k	-		100
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Orek	2408	And 10 tek	2426	20	2448	30	2468
1 botel	2410	11	2428	21	2450	31,000te	2470
2 2 2bc	2412 noote	12	2430	22 Anbo	2452	rek 32 Anbe	2472
3 m	2414	13	2432	o ^{tek} 23 Ar	2454	botel 33	2474
4	2416	14	2434	24	2456	anbolek	Antone
Anbo 5	2418	Anboat	2436	25	2458	anbetek	Albora
And otek	2420	16	2438	26	2460	antorek	Pupou
7	2422	17. ^{nbox}	2440	× 27 _{Anbot}	2462	ek popo	ler Anbor
8 And	2424	18 And	2442	otek 28 Ari	2464	orek ar	bolsk Anb
pore 9 Ar	2426	19 P	2444	nbo*29	2466	botek	Aupolek

1.5. Description of Test Modes

4	Pretest Modes	Descriptions			
	MA Anbotek	Keep the EUT in continuously transmitting mode (non-hopping).			
01	TM2 Anbore	Keep the EUT in continuously transmitting mode.			





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1.6. Measurement Uncertainty

Parameter	Uncertainty
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB Anbotek Anbotek
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Aupo, Tek Topo	rek P Anbe
Conducted Emission at AC power line	octek Pupol Ciek	botek N A
Occupied Bandwidth	Mode1	anbot P
Maximum Conducted Output Power	Mode1	An Prek
Channel Separation	Mode2	Photek
Number of Hopping Frequencies	Mode2	ek Panbo
Dwell Time	Mode2	botek P Ar
Emissions in non-restricted frequency bands	Mode1,2	nboteř
Band edge emissions (Radiated)	Mode1	anb Piek
Emissions in frequency bands (below 1GHz)	Mode1	Photek
Emissions in frequency bands (above 1GHz)	Mode1	ek Panbot
Note: P: Pass N: N/A, not applicable	botek Anbotek An	potek An



Hotline



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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

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 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

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
nbotek 1 Anbot	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
2 _A n	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

	edge emissions (Ra sions in frequency ba		Anbotek An	poier An	nbotek An	potek Aupo,
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1,8	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupotek Aut	abotek / Ant
¹⁶ 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
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24



Hotline



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Emis	sions in frequency ba	ands (below 1GHz)	Anborok	Vupo.	Anboiek.	Vupoter, V
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	Pre-amplifier	SONOMA	ootek 310N And	186860	2023-10-12	2024-10-11
8	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
104°K	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
A500*	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/A	ek Anbo	Aryotek





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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 2.21 dBi . It complies with the standard requirement.





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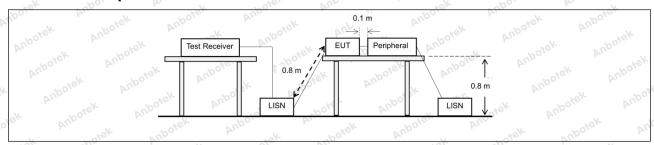
3. Conducted Emission at AC power line

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 tha ny frequency or frequencie t exceed the limits in the f	nnected to the at is conducted es, within the following table, as				
Anbotek Anbotek	Frequency of emission (MHz)	Conducted limit (dBµV)					
	Anbore Anbore	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5 tek nbote Am	56 Borel An	46				
And both	5-30 And State of Sta	60	50 reh				
k Wuporg Wu.	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	Projek Auporen	Ans				
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un						

3.1. EUT Operation

	Operating Envir	onment:	Aupor	boiek .	Aupole	Vup. Olek	Anbotek	Aupor
٦	Test mode:	N/A porek	Anboro	Arr	Anbotek	Anbo	hotek	Aupo

3.2. Test Setup



3.3. Test Data

Not applicable for equipment operated with DC power supply.



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400-003-0500



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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:	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.
Procedure:	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. 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. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
Anbotek Anbotek Anbotek Anbotek Anbotek	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
ek Anbotek Anbotek Anbotek	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 the plot(s).







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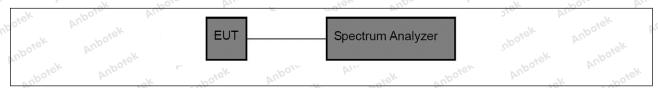
4.1. EUT Operation

Operating Environment:

Test mode:

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

4.2. Test Setup



4.3. Test Data

	Temperature:	25.2 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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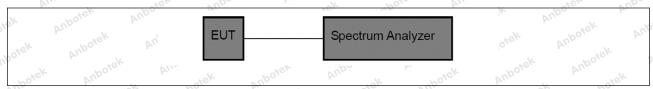
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: ek 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
Anbotek Anbotek Anbotek 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.
Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
Anbotek Anbote	g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.
ootek Anbotek A	i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
	j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power
	meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

5.1. EUT Operation

Operating Envi	ronment:	Vu. Polsk	Anbotek	Anbo	abořek	Anbore
Test mode:	1: TX (Non-Hopping).	ping): Keep th	e EUT in cor	ntinuously tra	nsmitting mode	e (non-

5.2. Test Setup



5.3. Test Data

Temperature:	25.2 °C	Humidity: 45 %	Atmospheric Pressure:	101 kPa
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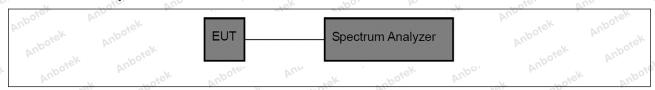
6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	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.
botek 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 Envi	ronment:	Anborek	Augo	nbotek	Anbore	An botek	Aupote
315	Test mode:	2: TX (Hopp	ing): Keep tl	ne EUT in con	tinuously trar	nsmitting mode	VII.	Anb

6.2. Test Setup



6.3. Test Data

0	Temperature:	25.2 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	100







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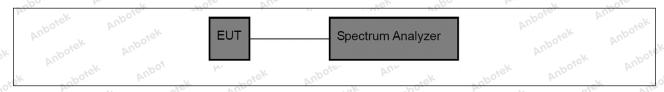
7. Number of Hopping Frequencies

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 7.8.3
Anborek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

7.1. EUT Operation

Operating Environment:	bolek .	Aupole	Anbandiek	Anbotek	Aupor ak	, p.,
Test mode: 2: TX (Hopp	ing): Keep the	EUT in conti	nuously transr	nitting mode	Anboro	Y

7.2. Test Setup



7.3. Test Data

Ţ	emperature:	25.2 °C	rek	Humidity:	45 %	Atmospheric Pressure:	101 kPa	
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8. Dwell Time

inpos Aria	Thotak Augo K Mark Augore All sak abotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
Anbotek Anbotek Anbotek Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
Procedure:	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be
	set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to
	be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of
	the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep.
k Anbotek Anbo	g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between









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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.

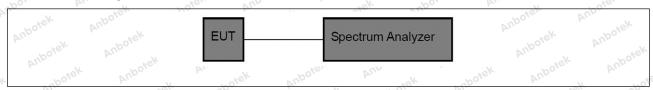
8.1. EUT Operation

Operating Environment:

Test mode:

2: TX (Hopping): Keep the EUT in continuously transmitting mode.

8.2. Test Setup



8.3. Test Data

Temperature:	25.2 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	
20/2111 - 1 - 1 - 2// - 1			- \/.	1 111111 D/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 2 0 2 1	

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







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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:

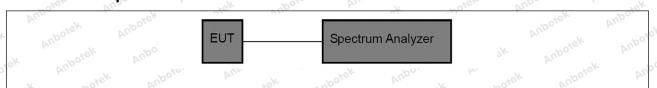
Test mode:

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

nopping).

2: TX (Hopping): Keep the EUT in continuously transmitting mode.

9.2. Test Setup



9.3. Test Data

Temperature:	25.2 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	
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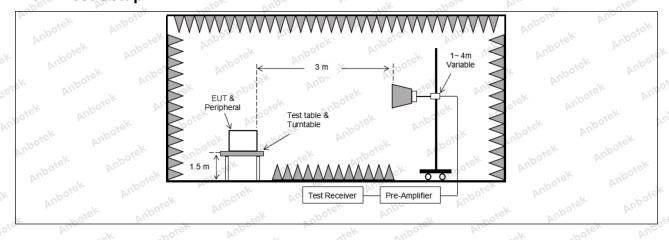
10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as define radiated emission limits sp	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the 05(c)).`
k Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
nbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Anbotek Anbotek	1.705-30.0 30-88	30 100 **	30
k Anborek Anbor	88-216 216-960 Above 960	150 ** 200 ** 500	3 3
Test Limit: Anborek Anborek	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	aragraph (g), fundamental emissing under this section shall not be lated. The lated shall not be lated shall not be lated. The lated shall not be lated shall not be lated. The lated shall not be lated shall not be lated. The lated shall not be lated shall not	e located in the 470-806 MHz. ted under other band edges. measurements uency bands 9—ssion limits in
Test Method:	ANSI C63.10-2020 section	6.10 And	ek Anbore
Procedure:	ANSI C63.10-2020 section	6.10.5.2	otek Anbotek

10.1. EUT Operation

Operating Envir	onment:	Aupo.	, boick	Anboie.	Ans	unboiek	Anbo
Test mode:	1: TX (Non-l hopping).	Hopping): Kee	ep the EUT ir	n continuousl	y transmitting	mode (non-	k Pu

10.2. Test Setup





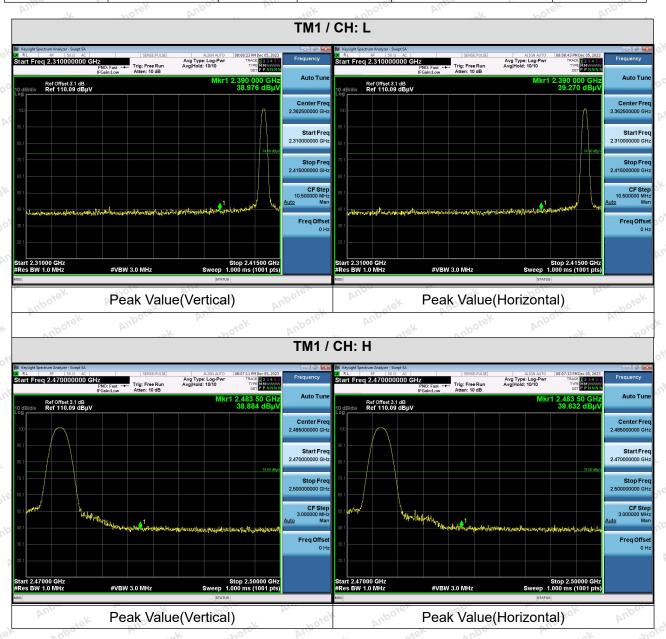




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10.3. Test Data

Temperature: 25.2 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note: 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	ly with the
otek Anbotek Ant	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
aboren Ande	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30 And
	30-88	100 ** Anb	3 tek noo
	88-216	150 **	3
	216-960	200 **	3 Notes
	Above 960	500 Mark Anborr	3 Pr.
	intentional radiators operatifrequency 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-page kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not be z, 76-88 MHz, 174-216 MHz or othese frequency bands is permitting 15.231 and 15.241. The tighter limit applies at the bein the above table are based on beak detector except for the frequency 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	otek Anboter
Procedure:	ANSI C63.10-2020 section	6.6.4 And	tek Spote

11.1. EUT Operation

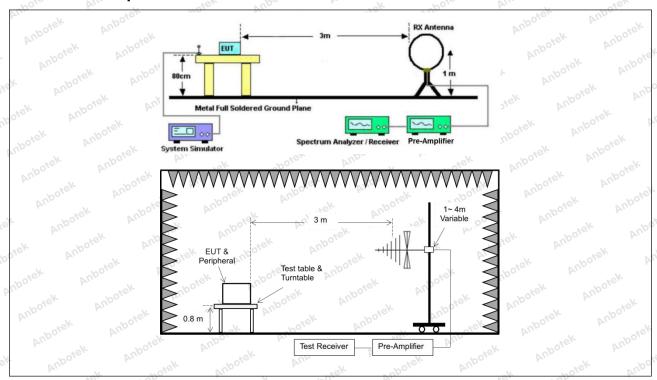
,01	Operating Envir	onment:						Ano
70	Test mode:	1: TX (Non-Hop	ping): Keep th	ne EUT in co	ntinuously t	ransmitting r	mode (non-	ek l
	rek mbo	hopping).	- Hojek	AUP	- P	odny Ya	Die Vii	





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11.2. Test Setup





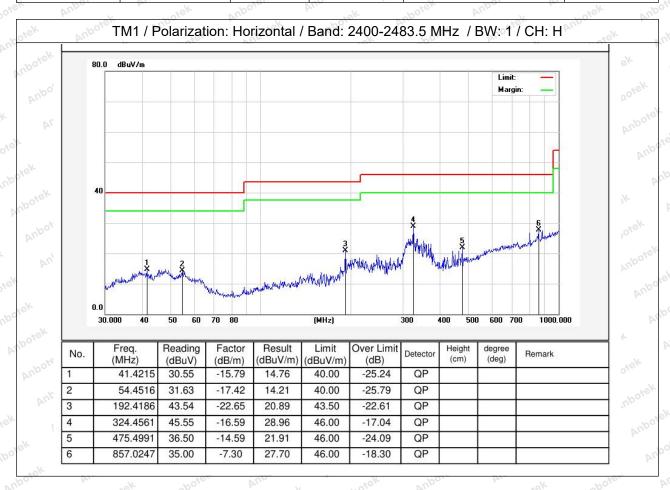


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11.3. Test Data

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

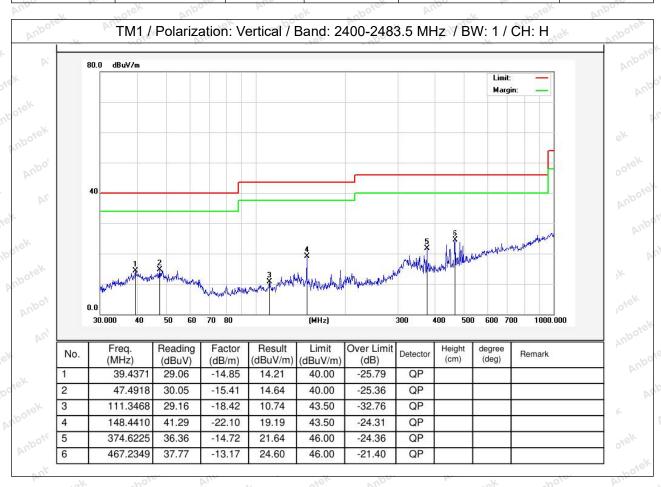
Temperature:	25.2 °C	AUR	Humidity:	45 %	Atmospheric Pressure:	101 kPa
				1.00	7 (111100)	\V . • • · · · · · · · · · · ·





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Temperature: 25.2 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.



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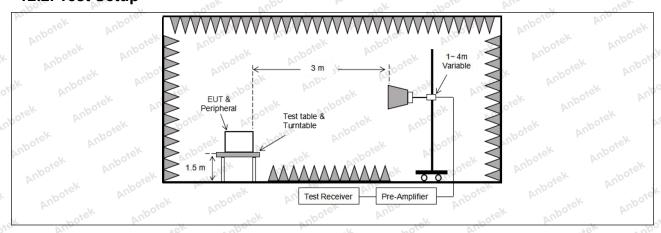
12. Emissions in frequency bands (above 1GHz)

Aupotek V	in § 15.209(a)(see § 15 Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
	Any botek	Anbo Air stek anbore	(meters)
	0.009-0.490	2400/F(kHz)	rek 300 mbote
poter And	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	100 30 AM
Aupo.	30-88	100 **	3,ek nbore
	88-216	150 **	3
	216-960	200 **	3 pores
	Above 960	500 horek Ambo	3 rek
	frequency bands 54-72 However, operation wit sections of this part, e.g In the emission table all The emission limits sho employing a CISPR que 90 kHz, 110–490 kHz a	erating under this section shall not 2 MHz, 76-88 MHz, 174-216 MHz of thin these frequency bands is permion, §§ 15.231 and 15.241. bove, the tighter limit applies at the two in the above table are based casi-peak detector except for the frand above 1000 MHz. Radiated en based on measurements employing	or 470-806 MHz. nitted under other e band edges. on measurements equency bands 9– nission limits in
	(A)		
Tost Mothod:	detector.	ation 6.6 d	Yung Polek
Test Method:	(A)	All Coton Mark	Potek Pupotek

12.1. EUT Operation

Operating Envi	ronment:	Auport.	Annabotek	Anborek	Aupo	Vupotek	Aupo
Test mode:	1: TX (Non-	Hopping): K	eep the EUT i	n continuousl	y transmitting	mode (non-	An
rest mode.	hopping).						

12.2. Test Setup









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12.3. Test Data

Temperature: 25.2 °C	Humidity: 45 %	Atmospheric Pressure:	101 kPa
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Vu.	hotek Anb		atek anbott	Ans.	rk hotek	Anbo.
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4816.00	27.39	15.27	42.66	74.00	-31.34	Vertical
7224.00	28.62	18.09	46.71	74.00	-27.29	Vertical
9632.00	29.43	23.76	53.19	74.00	-20.81	Vertical
12040.00	Aupoter* A	iek.	Spotek Aup	74.00	otek Anbote	Vertical
14448.00	"Upo*sk	Pupo, b	potek t	74.00	otek onk	Vertical
4816.00	27.80	15.27	43.07	74.00	-30.93	Horizontal
7224.00	28.54	18.09	46.63	74.00	-27.37	Horizontal
9632.00	28.41	23.76	52.17	74.00	-21.83	Horizontal
12040.00	otek * Anbo	-V 100	iek Aupote	74.00	· upotek	Horizontal
14448.00	"oiek* "	Doge Vur	dek ab	74.00	or hore	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	polarization
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
4816.00	16.77	15.27	32.04	54.00	-21.96	Vertical
7224.00	17.65	18.09	35.74	54.00	-18.26	Vertical
9632.00	18.45	23.76	42.21	54.00	-11.79	Vertical
12040.00	abo [†] e* ^k	Auporg Ai	iek oc	54.00	- No.	Vertical
14448.00	All * tek	Vupo _{isk}	Aup	54.00	ipo, Air	Vertical
4816.00	16.15	15.27	31.42	54.00	-22.58	Horizontal
7224.00	17.60	18.09	35.69	54.00	-18.31	Horizontal
9632.00	17.72	23.76	41.48	54.00	-12.52	Horizontal
12040.00	tek *	otek Wupo.	-K 20%	54.00	Vur "EK	Horizontal
14448.00	<i>'</i> µpo' *	sofek ant	O'TO AND	54.00	ek Aupo	Horizontal



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				hotek	Anbor	rek
			ГМ1 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	27.41	15.42	42.83	74.00	-31.17	Vertical
7320.00	28.47	18.02	46.49	74.00	-27.51	Vertical
9760.00	28.44	23.80	52.24	74.00	-21.76	Vertical
12200.00	ek * nbotek	Anbor	hotek	74.00	Ando	Vertical
14640.00	* *	ick Aupole	Pun Vie	74.00	Vupo	Vertical
4880.00	27.50	15.42	42.92	74.00	-31.08	Horizontal
7320.00	28.53	18.02	46.55	74.00	-27.45	Horizontal
9760.00	28.11	23.80	51.91	74.00	-22.09	Horizontal
12200.00	* otek	Anboie	And	74.00	YUpo, ok	Horizontal
14640.00	A.T. Otek	Anbotek	Aupo	74.00	Anbois	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.50	15.42	31.92	54.00	-22.08	Vertical
7320.00	17.75	18.02	35.77	54.00	-18.23	Vertical
9760.00	18.31	23.80	42.11	54.00	-11.89	Vertical
12200.00	k ¥upor	N Diek	anboter	54.00	aboiek	Vertical
14640.00	otek * Anboti	And	sk spojek	54.00	k otek	Vertical
4880.00	16.06	15.42	31.48	54.00	-22.52	Horizontal
7320.00	17.16	18.02	35.18	54.00	-18.82	Horizontal
9760.00	18.23	23.80	42.03	54.00	11.97 And	Horizontal
12200.00	Anbroten	Yup *6k	botek	54.00	-otek D	Horizontal
14640.00	* botek	Anbo	D. C. C.	54.00	And	Horizontal





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En Augs	riek	anboro.	VII.	hoter	AUD	rek
		•	ГМ1 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4948.00	27.68	15.58	43.26	74.00	-30.74	Vertical
7422.00	28.48	17.93	46.41	74.00	-27.59	Vertical
9896.00	28.99	23.83	52.82	74.00	-21.18	Vertical
12370.00	* Stek	anbotes	Anb	74.00	Aupor	Vertical
14844.00	* Vup	iek "pojek	Vupo.	74.00	Aupote.	Vertical
4948.00	27.57	15.58	43.15	74.00	-30.85	Horizontal
7422.00	28.56	17.93	46.49	74.00	-27.51	Horizontal
9896.00	28.79	23.83	52.62	74.00	-21.38	Horizontal
12370.00	Anb *	abotek	Vupo,	74.00	Anbotes An	Horizontal
14844.00	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
4948.00	17.62	15.58	33.20	54.00	-20.80	Vertical
7422.00	18.76	17.93	36.69	54.00	17.31 M	Vertical
9896.00	18.86	23.83	42.69	54.00	-11.31	Vertical N
12370.00	* * hotek	Anbo.	hotek	54.00	Vun	Vertical
14844.00	* * *	sk Aupolo	Aug	54.00	Aupo	Vertical
4948.00	17.50	15.58 No ⁰	33.08	54.00	-20.92	Horizontal
7422.00	18.53	17.93	otel 36.46 km	54.00	-17.54	Horizontal
9896.00	18.13	23.83	41.96	54.00	-12.04	Horizontal
12370.00	* tek	Anbore	And	54.00	100 PK	Horizontal
14844.00	Arrive Stek	Vupoter	Aupor	54.00	Auport	Horizontal
. 0		- T		777	. 27	

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.







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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 -----

