

Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 1 of 33

FCC Test Report

Applicant : ACCO Brands, Inc.

Address 4 Corporate Drive, Lake Zurich, Illinois 60047,

USA

Product Name : Pro Fit Ergo Wireless Keyboard

Report Date : Aug. 23, 2023

Shenzhen Anbotek Campilan



ce Laboratory Limited





Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 2 of 33

Contents

1 Osto and Indahan time					Pri.
1. General Information	_*ek		Kupo _{se} .	worek.	Anont
1.1. Client Information	k 20,00,	b		Anu	ونورها ^و انورها
1.2. Description of Device (EUT)	AD	-/- //- //- //-	K Wpore	Arra
1.3. Auxiliary Equipment Used D	Ouring Test	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	And		grell
1.4. Channel List	"Pokel, "Vub,		olok Ario	Δ''	······································
1.5. Description of Test Modes	i. stek	1046;bv)		1000 P	"/po
1.0. Measurement Oncertainty		10 tek	VUPO!!b	e/	Npoles.
1.8 Description of Test Facility	Vupolet.	AM	hotek	Anbol	stek 1
1.9. Test Equipment List		$\Delta \Omega^{bO}$		bo _{rer}	Ano1
2 Antonna requirement	And				Anbore.
Occupied Bandwidth	itek Anboli		k Vupoto,	Z/422	
o. Cosapioa Bariawiati i	iodn 19st	Sk. VUD.	-VV-	otek Anbe	V
3.1. EUT Operation	, , , , , , , , , , , , , , , , , , ,	otek onb			1
3.2. Test Data	Upolok Vil	ρΥ	wotek A	''''o <u>r.</u> ''''''	
J.O. TOST Data	wo iek	Aupole	*6k	nbotek	Aupo
1.8. Description of Test Facility 1.9. Test Equipment List 2. Antenna requirement 3. Occupied Bandwidth 3.1. EUT Operation 3.2. Test Setup 3.3. Test Data 4. Maximum Conducted Output Pow 4.1. EUT Operation 4.2. Test Setup 4.3. Test Data 5. Channel Separation 5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	er		Arbor	AI.	1
4.1. EUT Operation	Mapoye.	Vu		And	1
4.2. Test Setup					1
4.3. Test Data	v. Vi.	//		~k %0°	1°4,,,,
5. Channel Separation	potek Aupo,		000gg Yay	te. Aur	1
5.1 FLIT Operation			N. C.		bore A
5.2. Test Setup	AUD.	otek D	upote Vi	Vo.	b ^{otek} 1
5.3. Test Data	aboten.	VU.	, otek	Vupo,	1
6.1. EUT Operation					Anbo
o. Number of Hopping Frequencies.	Yu.	abotek	V.Upp.	, otek	Aupolo
6.1. EUT Operation	ok/\ps:\	Al.	- Choter	909	1
6.2. Test Deta	rek abolo	x		ek Anbol	1 : 1
6.3. Test Octop 6.3. Test Data 7. Dwell Time 7.1. EUT Operation 7.2. Test Setup	30b	stek nobo			00,5gy
7. Dwell Time	<u> </u>			00T	1
7.1. EUT Operation	br.	opole, Vi	·····	otek	Anbo. 1
7.2. Test Setup	Anba		- 1000 C	V1	1:
7.3. Test Data		An-	<u>Botek</u>	<i>p</i> 0/00	1
8. Emissions in non-restricted freque	ency bands	Aupo,	Ar.	, aboter	2
8.1 FUT Operation	All				K Aupon
8.2 Test Setup	otsk Vupo:		ek anboy		2
8.3. Test Data		YUE VIE	Vv	and And	2
0. Rand adda amissions (Radiated)					abotek
7.3. Test Data 8. Emissions in non-restricted freque 8.1. EUT Operation 8.2. Test Setup 8.3. Test Data 9. Band edge emissions (Radiated) 9.1. EUT Operation 9.2. Test Setup 9.3. Test Data 10. Emissions in restricted frequency	Vupolen K		~bořek	PUP01:	2
9.1. EUT Operation		Who is.	YU.	- Obotek	2
9.2. Test Setup		yek	Pupo,	bi.	2
9.3. Test Data			- upolek		2
10. Emissions in restricted frequency	/ bands (below	1GHz)	b.,	YX-1004°	2
	16. VA				





Report No.: 18220WC30162802	FCC II	D: GV3M014	40-KB	Page	3 of 33
10.2. Test Setup	y	otek Anbore	okek Pung Pung	ona K	26 27
11. Emissions in restricted frequency bands	(above 10	GHz)	hotek Ar	pore b	29
11.1. EUT Operation	abotek	Anbo	botek	Auporg	29
11.2. Test Setup	· · · · · · · · · · · · · · · · · · ·	Mpore	VII.	boten	29
11.3. Test Data	Anb.	, , , , , , , , , , , , , , , , , , ,	Vupo,		30
APPENDIX I TEST SETUP PHOTOGRAF	PH <u>Anbore</u>	Vur.	anbotek	Anbo	33
APPENDIX II EXTERNAL PHOTOGRAPI		ter Aups		ek sopo	33
APPENDIX III INTERNAL PHOTOGRAPH		- Vo.	ter Aup	· · · · · · · · · · · · · · · · · · ·	





FCC ID: GV3M01440-KB Report No.: 18220WC30162802 Page 4 of 33

TEST REPORT

ACCO Brands, Inc. Applicant

Manufacturer ACCO Brands, Inc.

Product Name Pro Fit Ergo Wireless Keyboard

M01440-K Test Model No.

: N/A Reference Model No.

Trade Mark Kensington

Input: 3V-- by "AAA"*2 battery Rating(s)

47 CFR Part 15.247 2022 Test Standard(s)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Aug. 03, 2023
Anbotek Anbotek Anbotek	
Date of Test:	Aug. 03, 2023 to Aug. 15, 2023
Anbotek Anbotek Anbotek Anbotek Anb	Tu Tu Hong
Prepared By:	hotek Anbore Andrek Anbotek An
Dotek Aupotek Aupotek Aupotek	(Tutu Hong)
Anbotek Anbotek Anbotek Anbotek Anbotek	Idward pan
Approved & Authorized Signer:	K otek Aubote. Yun
	(Edward Pan)



Shenzhen Anbotek Compliance Laboratory Limited



Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 5 of 33

Revision History

	Report Version	Description	Issued Date			
	Anbores R00 potek Ant	Original Issue.	Aug. 23, 2023			
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant			
10	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter			





Report No.: 18220WC30162802 Page 6 of 33 FCC ID: GV3M01440-KB

1. General Information

1.1. Client Information

VII	V~	
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)

YUR Jek	_	and the state and the state and
Product Name	:	Pro Fit Ergo Wireless Keyboard
Test Model No.	:	M01440-K
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek A
Trade Mark	:	Kensington
Test Power Supply	:	DC 3V battery
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anborek Anborek Anborek Anborek Anborek Anborek
RF Specification	•	
Operation Frequency	:	2403MHz to 2480MHz
Number of Channel	:	16 botek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSKotek Anbotek Anbotek Anbotek Anbotek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	3.58dbil (Provided by customer)
Remark: (1) For a mospecifications or the U		detailed features description, please refer to the manufacturer's r's Manual.







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 7 of 33

1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.
	Anbores / Anbores	Ant stek/ subotek	Anbor A All botek	Anboret And







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 8 of 33

1.4. Channel List

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Allootek	2403	5 5	2407	Vup de	2414	ek 13 _{An} t	2419	Mpp.	
2 _{Anbol}	2426	6	2422	10	2436	oteV14	2439	ALIDA	0,000
orek 3 pri	2441	Anbu 7 tek	2445	11Anbo	2459	15	2453	Anb	
Jootel 4	2463	Ans Lote	2466	12 A	2473	16	2480		

1.5. Description of Test Modes

	Pretest Modes	Descriptions
0	Anbore TM1 Anborek	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
0	TM2 Anborek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.

1.6. Measurement Uncertainty

Parameter	Uncertainty			
Occupied Bandwidth	925Hz			
Conducted Output Power	0.76dB			
Conducted Spurious Emission	1.24dB			
Radiated spurious emissions (Below 30MHz)	3.53dB			
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB			
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 4.46dB; Vertical: 5.04dB			
This uncertainty represents an expanded uncertaconfidence level using a coverage factor of k=2.	inty expressed at approximately the 95%			



Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 9 of 33

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anbote	P
Occupied Bandwidth	Mode1	PARIS
Maximum Conducted Output Power	Mode1	b Vu
Channel Separation	Mode2	nbote P.
Number of Hopping Frequencies	Mode2	Aupolio P
Dwell Time And	Mode2	AP
Emissions in non-restricted frequency bands	Mode1,2	Punbou
Band edge emissions (Radiated)	Mode1	P Ant
Emissions in restricted frequency bands (below 1GHz)	Mode1	hores P
Emissions in restricted frequency bands (above 1GHz)	Mode1	Anbole P
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbote

N: N/A, not applicable





Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 10 of 33

1.8. Description of Test Facility

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

FCC-Registration No.:184111

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. 184111.

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.518128





Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 11 of 33

1.9. Test Equipment List

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
nbotek 1	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12
2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21
√4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
,b05.k	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18

	edge emissions (Ra sions in restricted fre	diated) equency bands (above	e 1GHz)	ek Vupo _t	ak Anbotek	k Anbor
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
e¥ 1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
An3otel	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4.nb	EMI Test Software EZ-EMC	SHURPLE	N/A Anbot	N/A	stek Anbotel	k Kypotek
5 P	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7, tek	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emissions in restricted frequency bands (below 1GHz)							
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22	
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22	
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22	
4	EMI Test Software EZ-EMC	SHURPLE	N/A nboto	N/A	stek / Aupotek	ek Anborek	







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 12 of 33

2. Antenna requirement

r. poiek	An intentional radiator shall be designed to ensure that no antenna other	
AUR	than that furnished by the responsible party shall be used with the device.	
Test Requiren	nent: The use of a permanently attached antenna or of an antenna that uses a	ore
k hotek	unique coupling to the intentional radiator shall be considered sufficient to	
er Anb	comply with the provisions of this section.	DU/O

3. Occupied Bandwidth

- O O-	
Test Requirement:	47 CFR 15.215(c)
Anbotek Anbotek Anbotek Anbotek Test Limit ^{ek} 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 Anbotek Anbote	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.
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.
	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
	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.
An storek An	h) The occupied bandwidth shall be reported by providing spectral plot(s) of



www.anbotek.com.cn





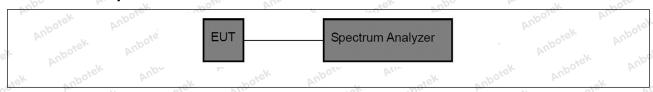
Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 13 of 33

anbotek .	Anbotek	the measurin division shall	OO.	Distr.	•			
w. hotek		the plot(s).	upotek			hotek	Anbore	

3.1. EUT Operation

Operating Environment:	ek abotek	Anbore	Vur Pusk	Anborek	Anbo sek		
	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.						
atek anbote Ar			i n	ek vupo	Arra		

3.2. Test Setup



3.3. Test Data

Temperature:	24.4 °C	Humidity:	56.9 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	--------	-----------------------	---------

Please Refer to Appendix for Details.





Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 14 of 33

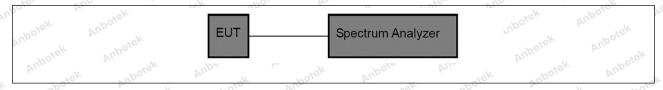
4. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: ek 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
rest Lingt. Anbotek An	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:
ek Anbotek Anb	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.
potek Anbotek	i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
Anbotek Anbotek	j) A spectral plot of the test results and setup description shall be included in the test report.
Aupotek Aupote	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.

4.1. EUT Operation

Operating Environment:	Aupo	, botek	Anbo	Yu.	, otek	Anbotek	Anbo.
Test mode:	1: TX-GFS mode (non					uously trans	smitting both

4.2. Test Setup



4.3. Test Data

Temperature:	24.4 °C	Humidity:	56.9 %	Atmospheric Pressure:	101 kPa









Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 15 of 33

Please Refer to Appendix for Details.

Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 16 of 33

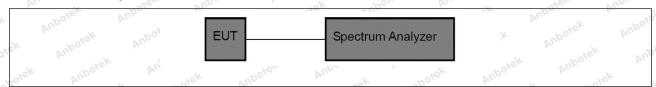
5. Channel Separation

Upo. Iv.	though the the training training the training training the training tr
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 Anbote	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.
	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.

5.1. EUT Operation

Operating Environment:	otek Anbotek	Anb	abotek	Aupor	Vi. Potek Wi
Test mode:	2: TX-GFSK (Ho (hopping) with G			nuously trans	smitting mode
shotek Anbo	notek Anbo	Die VII.	ek hover	Anbo	v zotek

5.2. Test Setup



5.3. Test Data

Temperature:	24.4 °C	~ 0/ ₆	Humidity:	56.9 %	Atmospheric Pressure:	101 kPa
Tomporatare.	27.7%		Trairiiqity.	00.0 70	Authoophono i roodaro.	FEIGI KI GOO

Please Refer to Appendix for Details.







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 17 of 33

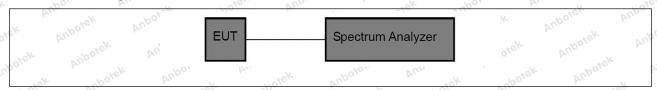
6. Number of Hopping Frequencies

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
Vupotek Vupoter	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
otek Anbotek Ant	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.
Vipotek Vipotek	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.
Procedure:	d) Sweep: No faster than coupled (auto) time.
Anbore An	e) Detector function: Peak.
tek Anbotek Anb	f) Trace: Max-hold.
hotek Anbotek A	g) Allow the trace to stabilize.
Anbotek Anbotek	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.

6.1. EUT Operation

Operating Environment:	Oote Wes	hotek	Anborek	Aupo	nboick	Aupor	Dr.
Test mode:	2: TX-GFSK (hopping) w				tinuously trans	smitting mode	;
And mode.	Anboping) W	Alloi otek	Vupot,	Anbe	iek wo		

6.2. Test Setup



6.3. Test Data

Temperature:	24.4 °C	Humidity:	56.9 %	Atmospheric Pressure:	101 kPa
. MO.	No.	-10VUs		UK PO	270

Please Refer to Appendix for Details.









Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 18 of 33

7. Dwell Time

mbor Arr	botek	Anbo	h. siek	oupose.	And	potek
Test Requirement:	47 CFR 18	5.247(a)(1)(iii	Aupo	botek	Anbore	A.n.
Test Limit:	2483.5 MF occupancy period of 0 employed. transmissi	dz band shall / on any char).4 seconds n Frequency h	7(a)(1)(iii), Feduse at least 1 anel shall not be the shall not be the system opping system icular hopping	5 channels. Toe greater that number of ms may avoid	The average in 0.4 second hopping chall or suppress	time of ds within a nnels
Test Method:	ANSI C63	.10-2020, sed	tion 7.8.4	Anbotek	Vupo,	k by
ek Anbotek Anbotek botek Anbotek Anbotek	transmissi a single tra transmissi dwell time the last tra	on to the end ansmission poon. If the dev is measured insmission.	on a channel of the last tra er hop then thice has a mult from the start	nsmission for e dwell time is tiple transmiss of the first tra	that hop. If the the duration to the	the device had n of that o then the o the end of
	over an obdetermine measure b	servation per the time of o ooth the dwell	is the total time riod specified occupancy the time per hop channel in a g	in the regulate spectrum and and the numb	ory requirem alyzer will be	ent. To configured to
	"O'EK	Anbotek A	up. sek	abotek p		
Procedure:	requireme number of the number based on the dwell times for 1, 3 or	nts shall be no channels ender of channels the minimum some per channe time slots)	hopping funct nade with the abled. If the do than complia number of cha (example Blu then measure mum number	minimum and well time per on the name of t	with the ma channel does requirements device supposes can dwell	ximum s not vary with may be orts different on a channel
	Lise the fo	llowing spect	rum analyzer	sattings to de	termine the	dwell time nei
	hop:	Anbotek	Anbotek	Anborek	Anbotek	Anbotek Anbotek
	b) RBW sl	nall be ≤ char	ntered on a ho nnel spacing a the expected	nd where pos	sible RBW s	
	c) Sweep	time: Set so t	hat the start on the hop are clea	f the first tran	smission and	d end of the
	1/hopping	rate) should		botek	Anboro	All
	the transm to reduce channel.	nission is clea the chance of	where possible rly observed. ftriggering wh	The trigger le	vel might ne	ed adjustmen
	-10	r function: Pe				
tek popojer Ar	t) Trace: C	lear-write, sir	ngle sweep.	- Nek	Pupole,	VUr.









Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 19 of 33

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.

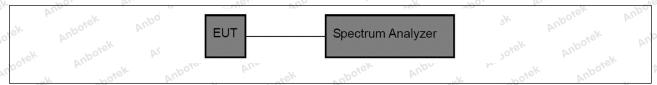
The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time 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.

7.1. EUT Operation

Operating Environment:	oter And	. orek	anbotek	Anbo	3K	abotek	Aupoles	V. V.
Test mode:	2: TX-GFSk (hopping) w				ontinuou	sly transr	mitting mod	de e
Ans	Anbo.		yk abo					9,

7.2. Test Setup



7.3. Test Data

Temperature:	24.4 °C	Aupo	Humidity:	56.9 %	Atmospheric Pressure:	101 kPa
--------------	---------	------	-----------	--------	-----------------------	---------

Please Refer to Appendix for Details.





Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 20 of 33

8. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
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
ek aborek	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.
	stek anbotek Anbot Ak hotek Anbote Anb
	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.
	Miles and ustally a political and a political and a second of the second
	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







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 21 of 33

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.

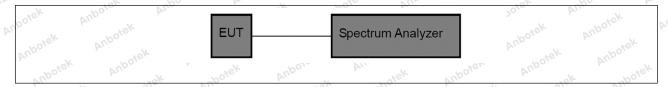
For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

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.

8.1. EUT Operation

Operating Enviro	nment:	And	Anbotek	Aupo	k "Upo,	ick Wipc	Yes. V.
upo, k. upo,		-GFSK (Non-				usly transm	itting
Test mode:	-0.0°	e (non-hoppin -GFSK (Hopp	•, ₁ , , , , , , , , , , , , , , , , , , ,			transmitting	mode
Anboliode. An		oing) with GFS			nturuousiy	uansmitting	Anbotek
alpoier	AUD	botek [

8.2. Test Setup



8.3. Test Data

Temperature: 24.4 °C Humidity: 56.9 %	Atmospheric Pressure: 101 kPa
---------------------------------------	-------------------------------

Please Refer to Appendix for Details.







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 22 of 33

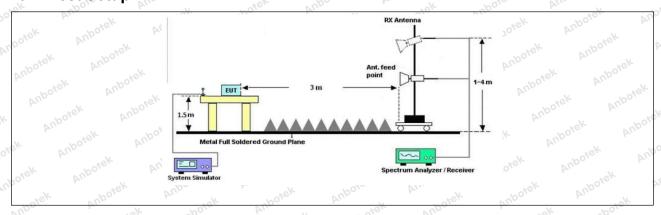
9. Band edge emissions (Radiated)

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
k Aupotek Aupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. A. Stek	0.009-0.490	2400/F(kHz)	300 mbort
aborek Ando	0.490-1.705	24000/F(kHz)	30
Ar. Anboter	1.705-30.0	30° , kek , nbo	30 And
Anbo. A. otek	30-88	100 **	3 ek nobore
- aborek Anbo	88-216	150 **	3
Test Limit:	216-960	200 **	3 boten And
V. Vipo,	Above 960	500 Morek Ambou	3 rek onb
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing 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.
Test Method:	ANSI C63.10-2020 section	6.10 Anbo	Anbore. And
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Anboten Anbe

9.1. EUT Operation

Operating Environment	t: Anbore	Pr. Polek	. Anbot	YUP.	siek.	Upotek	Vupo.	10	
1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.									
All. tek abote	Anb		hotek	Aupoic	V	ik abo	ion Mu	0	

9.2. Test Setup









Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 23 of 33

9.3. Test Data

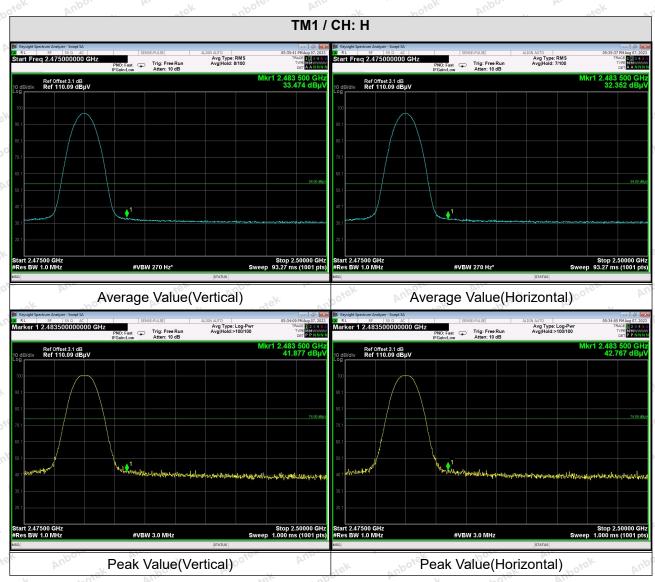
Temperature: 24.4 °C Humidity: 56.9 % Atmospheric Pressure: 101 kPa







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 24 of 33









FCC ID: GV3M01440-KB Page 25 of 33 18220WC30162802

10. Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	restricted bands, as define), In addition, radiated emissions ed in § 15.205(a), must also compecified in § 15.209(a)(see § 15.2	oly with the
tek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 000
ooiek Anbo	0.490-1.705	24000/F(kHz)	30 Stek
	1.705-30.0	30° harring	30
	30-88	100 **	3,ek anbore
boiek Anbo	88-216	150 **	3
est Limit:	216-960	200 **	3,botes And
	Above 960	500 notek	3 30
otek Anbotek Anbotek Anbotek Anbotek	intentional radiators operative frequency bands 54-72 MHz	aragraph (g), fundamental emissi ting under this section shall not b Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permit	e located in the 470-806 MHz.
DV LP	ANSI C63.10-2020 section	664 m	"Ole, VUR
Test Method:	ANSI C03. 10-2020 Section	10:0:11	

10.1. EUT Operation

M	Operating Environment:	Aupo,		poter				
	Test mode:		FSK (Non-long)		ontinuo	usly transr	mitting	e ^k
	Al. sek abover	Anb	\L	Vupo,	19:s	abolei		

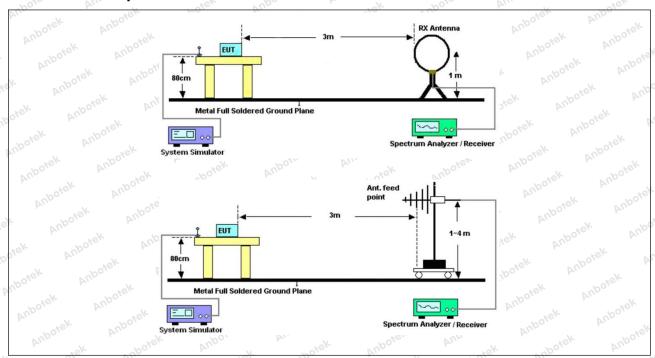


Hotline



Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 26 of 33

10.2. Test Setup



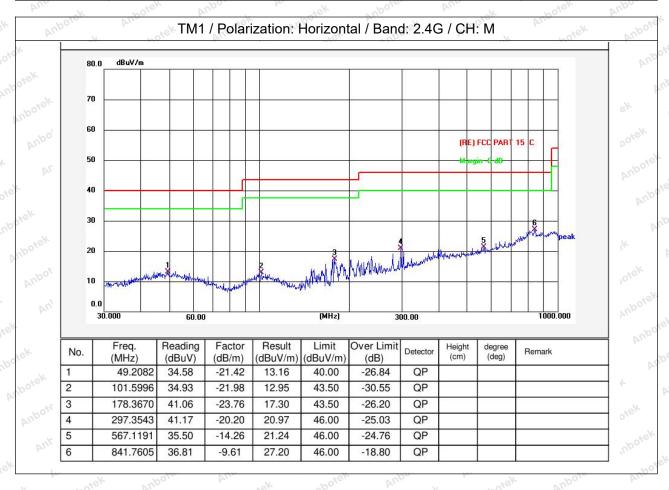




Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 27 of 33

10.3. Test Data

Temperature: 23.5 °C	Humidity: 48.3 %	Atmospheric Pressure:	101 kPa
----------------------	------------------	-----------------------	---------

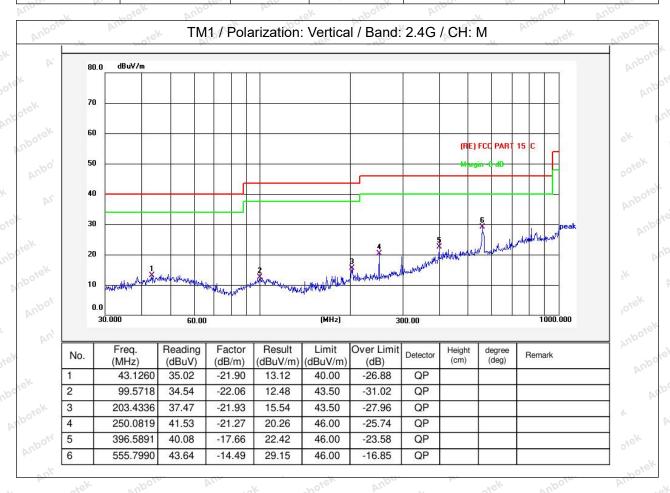






Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 28 of 33

Temperature: 23.5 °C Humidity: 48.3 % Atmospheric Pressure: 101 kPa







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 29 of 33

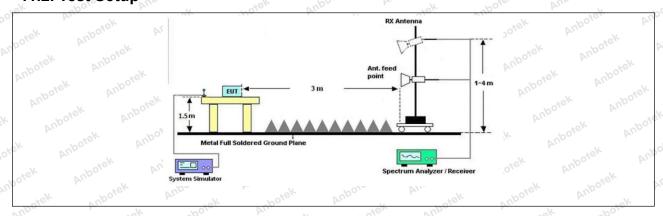
11. Emissions in restricted frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted ba omply with the radiated emission 5(c)).	
ek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. K. Polek	0.009-0.490	2400/F(kHz)	300 Mbore
abover Anos	0.490-1.705	24000/F(kHz)	30
atek Anbote.	1.705-30.0	30° AND	30
Anbo V h. otek	30-88	100 **	3,ek nbore
T whorek Andre	88-216	150 **	3
Test Limit:	216-960	200 **	3 pores
Aupo. A.	Above 960	500 Markett Amboo	3 rek no
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 Andro	Anbore. And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore	Anboren Anb

11.1. EUT Operation

D.	Operating Environment	: Aupo,	br.		boter	And		100 tek	Vupo.	1/2
	Test mode:			n-Hopping) ng) with G			continuo	ously trans	smitting	otek
	A. Spore.	And	\ <u></u>		Vupo.		*eK	abolie.		

11.2. Test Setup









Report No.: 18220WC30162802 Page 30 of 33 FCC ID: GV3M01440-KB

11.3. Test Data

Temperature: 23.5 °C Humidity: 48.3 % Atmospheric Pressure: 101 kPa

	Po. D.		TM4 / CU. I	·	-K - Ho,	
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4806.00	29.48	15.27	44.75	74.00	-29.25	Vertical
7209.00	30.61	18.09	48.70	74.00	-25.30	Vertical
9612.00	31.92	23.76	55.68	74.00	-18.32	Vertical
12015.00	Aupole * Al	, e ^k	abotek Anb	74.00	otek Anbote	Vertical
14418.00	*Upo*sk	Anbo.	hotek b	74.00	siek onk	Vertical
4806.00	29.84	15.27	45.11	74.00	-28.89	Horizontal
7209.00	30.48	18.09	48.57	74.00	-25.43	Horizontal
9612.00	29.51	23.76	53.27	74.00	-20.73	Horizontal
12015.00	otek * Aupo	-/- NO	iek Aupoie	74.00	L nbotek	Horizontal
14418.00	hotek* An	bose Vinn	iek abo	74.00	ok hotel	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4806.00	18.86	15.27	34.13	54.00	-19.87	Vertical
7209.00	19.64	18.09	37.73	54.00	-16.27	Vertical
9612.00	20.94	23.76	44.70	54.00	-9.30	Vertical
12015.00	1010×	Aupoter Au	*E*	54.00	V In C	Vertical
14418.00	And *ek	abotek	Aupo, K	54.00	ipole And	Vertical
4806.00	18.19	15.27	33.46	54.00	-20.54	Horizontal
7209.00	19.54	18.09	37.63	54.00	-16.37	Horizontal
9612.00	18.82	23.76	42.58	54.00	-11.42	Horizontal
12015.00	* * *	olek Wupos	-K 201	54.00	Aug.	Horizontal
14418.00	4 ×	sorek ant	ofer And	54.00	ek Aupor	Horizontal





Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 31 of 33

			ГМ1 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	29.50	15.42	44.92	74.00	-29.08	Vertical
7323.00	30.46	18.02	48.48	74.00	-25.52	Vertical
9764.00	30.93	23.80	54.73	74.00	-19.27	Vertical
12205.00	ek * spotek	Anborr	but hotek	74.00	Ans	Vertical
14646.00	*	tek Wipose	Pur Viel	74.00	Aupo	Vertical
4882.00	29.54	15.42	44.96	74.00	-29.04	Horizontal
7323.00	30.47	18.02	48.49	74.00	-25.51 co ⁴⁴	Horizontal
9764.00	29.21	23.80	53.01	74.00	-20.99	Horizontal
12205.00	*otek	Aupole.	Aug	74.00	YUpor by	Horizontal
14646.00	Art rek	nbotek	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	18.59	15.42	34.01	54.00	-19.99	Vertical
7323.00	19.74	18.02	37.76	54.00	-16.24	Vertical
9764.00	20.80	23.80	44.60	54.00	-9.40	Vertical
12205.00	k *upor	N. Siek	anbotek	54.00	borek	Vertical
14646.00	otek * Anbot	Anb	ek abotek	54.00	bu. Poick	Vertical
4882.00	18.10	15.42	33.52	54.00	-20.48	Horizontal
7323.00	19.10	18.02 A	37.12	54.00	-16.88	Horizontal
9764.00	19.33	23.80	43.13	54.00	-10.87	Horizontal
12205.00	anb*otek	Aupo	botek	54.00	otek D	Horizontal
14646.00	* week	Anbor	Z. rek	54.00	VUD.	Horizontal





Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 32 of 33

en Aug	rick	anbore	Dir.	hoter	Anba	Yek
		٦	ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.77	15.58	45.35	74.00	-28.65	Vertical
7440.00	30.47	17.93	48.40	74.00	-25.60	Vertical
9920.00	31.48	23.83	55.31	74.00	-18.69	Vertical
12400.00	* Cotek	anbore.	And	74.00	Anbo.	Vertical
14880.00	* Vup	iek upołek	Aupo.	74.00	Anbore	Vertical
4960.00	29.61	15.58	45.19	74.00	-28.81	Horizontal
7440.00	30.50	17.93	48.43	74.00	-25.57	Horizontal
9920.00	29.89	23.83	53.72	74.00	-20.28	Horizontal
12400.00	AUD * "SK	abotek	Aupo,	74.00	Anbore, An	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	19.71	15.58	35.29	54.00	-18.71	Vertical
7440.00	20.75	17.93	38.68	54.00	-15.32	Vertical
9920.00	21.35	23.83	45.18	54.00	-8.82	Vertical N
12400.00	k * spojek	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * *	sk Vupoje.	Aug	54.00	Vupo,	Vertical
4960.00	19.54	15.58	35.12	54.00	-18.88	Horizontal
7440.00	20.47	17.93	38.40	54.00	-15.60	Horizontal
9920.00	19.23	23.83	43.06	54.00 And	-10.94	Horizontal
12400.00	* tek	Anbores	Vur.	54.00	po, by	Horizontal
14880.00	An*	* Upotek	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.







Report No.: 18220WC30162802 FCC ID: GV3M01440-KB Page 33 of 33

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 -----

