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Report No.:1821C40001112501 FCC ID: 2ANWF-ET16001

FCC Test Report

Applicant : Stanley Black & Decker, Inc.

Address New Britain Design Center, 600 Myrtle Street

New Britain CT United States

Product Name : Elite Code Reader

Report Date : Sept. 29, 2024

Shenzhen Anbotek











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TEST REPORT

Applicant Stanley Black & Decker, Inc.

Manufacturer : Stanley Black & Decker, Inc.

Product Name : Elite Code Reader

Model No. : ET1600

Trade Mark : N/A

Rating(s) Car battery power supply: 12Vdc, 0.7A
Battery Capacity: DC 3.7V, 600mAh

47 CFR Part 15.247

Test Standard(s) : ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

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

Date of Receipt:	Anbole A	184	upolek.	Aug. 05, 2024	hotek	Anborn
Ando	nbolek	Anbora	Hotek	Auporer	"un stek	Aupolok
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Revision History

^{upolek}	Anbotek Anbotek	Revision History	Tek Aupotek Aupotek
Anbolo	Report Version	Description	Issued Date
Aup.	nbotek AnROO Anou	Original Issue.	Sept. 29, 2024
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hotek	Aupolek Aupo, rek	Anborek Anbore An	ek Anbotek Anbo

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1. General Information

1.1. Client Information

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Applicant	:	Stanley Black & Decker, Inc.
Address	:	New Britain Design Center, 600 Myrtle Street New Britain CT United States
Manufacturer	:	Stanley Black & Decker, Inc.
Address	:	New Britain Design Center, 600 Myrtle Street New Britain CT United States

1.2. Description of Device (EUT)

	- PV	Fo. VII.
Product Name		Elite Code Reader
Model No.	:	ET1600 And And Andrew Andrew Andrew Andrew
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek
Test Power Supply	•	DC 5V via Smart Box input AC 120V/60Hz from Adapter
Test Sample No.	•	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A tek Anborek Anbo
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek Anbo
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type		FPC Antenna
Antenna Gain(Peak)	•	3.91dBi

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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Anbotek 1.3. Auxiliary Equipment Used During Test

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nbotek	1.3. Auxiliary Equipm	nent Used During Test	otek Anbotek An	pote, Yupotek Yu
Aupolek	Title	Manufacturer	Model No.	Serial No.
Anb	Acer Computer	acer acer	N19W3	2020AJ3862
	Smart Box	Launch Tech Co., Ltd.	Smartbox	K Polek Vupolek
otek	SWITCHING POWER SUPPLY	Shenzhen Pengshengye Electronic Co., Ltd.	PSY1203000	Poolek Wholek Woo

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1.4. Operation channel list

Operation Band:

AUPO	Operation b	pariu.	Die VI		761	VUD.	Yar	" " " " " " " " " " " " " " " " " " "
Anbo'	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
P	Upor O	2402	20	2422	40,botek	2442	60	otek 2462 kup
ik.	Anbolt	2403	2100181	2423	k 41 Anb	2443 And	61	2463
potek	1200 tok	2404	22 Anbol	2424	12 A2	2444 N	62	2464
Anboick	3 Aupoli	2405	otek 23 A	2425 AT	43	2445	Anb 63	2465
Anb	rek 4 An	2406	24	2426	And 44 tek	2446	64	2466
<i>V</i> .	nborek5	2407	25	2427	45	2447, botek	65 Anbox	2467
ek	6ek	2408	26 John K	2428	46	2448	rek 66 M	2468
	7,000 kg/8	2409	27	2429 Anbo	47 Ant	2449	nbol®67	2469
lpotek	8	e ^k 2410 _k nb ^{ott}	28	2430	100 ¹⁰¹ 48	2450	68	2470
Anbote	9	100 te 2411 An	o ^{oten} 29	2431	49	2451	69 otek	2471
Ant	10	2412	Anbo30	2432	50° 10'k	2452	70 ₁₀₀	e* 2472 _{knbol}
	Anbord 11	2413	A31 10 10 10 10 10 10 10 10 10 10 10 10 10	2433	51 Anbore	2453	71	10010 2473 N
ck.	12	2414	32 nbote	2434	52 _{An}	o ^{telt} 2454 Mil	72	2474
nbotek	13.60 tel	2415	ek 33 Anb	2435 And	53	2455	Anbo 73	2475
Anbore	* 14 Anbc	2416	hove 34	2436	54 _k	2456	N74	2476
	potek 15	2417	35	2437	And 55	2457	75 ¹⁰⁰ 10	2477
An	16	2418	An 36 18k	2438	56	2458	76 Anbe	2478
otek	17,ex	2419	37	2439	57 Anbo	2459	ootek 77	2479
-ak	18	2420	38	2440 _{Mil}	o ^{tek} 58 N	2460	78	2480
Anbotek	19	otek 2421 Anb	39 An	2441	59	2461	h. nbotek	Vispolsk
Anbo	"ak Viii	Anbotek P	"upolek	Anborek	Aupolek	Vuporer 100 fek	Anborel	Aupolek
	POLO	VIII	, olek	VUD	· No.	apore	b	.VV.

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1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1× Anbote	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
And otek TM2 otek An	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
And Andotek TM3 Andotek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Anbotek TM4 Anbote	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
otek Another Another	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
TM6	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB Anbovek Anbovek
Dwell time	2% And Lotek Andolek And
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.





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Anbolek 1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	Augore / Am	Rube
Conducted Emission at AC power line	Mode1,2,3	» P
Occupied Bandwidth	Mode1,2,3	otek P
Maximum Conducted Output Power	Mode1,2,3	P. Olor
Channel Separation	Mode4,5,6	Pre
Number of Hopping Frequencies	Mode4,5,6	Р
Dwell Time Anbotek Anbotek	Mode4,5,6	P P
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	Р
Band edge emissions (Radiated)	Mode1,2,3	iporg B
Emissions in frequency bands (below 1GHz)	Mode1,2,3	Anbole P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	P.PO

Note:

P: Pass

N: N/A, not applicable

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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

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

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



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1.10. Test Equipment List

Vupolek	Cond	ucted Emission at A	C power line	Wpolek .	Aupore.	k Vun	Anbotek
Anbo	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
P	nbolek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
olek ek	Anbo	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
Aupolek	3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Aspolo	Auporek Viporek
anb	o ^{te 4}	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Dwell Time

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Emissions in non-restricted frequency bands
Occupied Randwidth

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
AULOSEA	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
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
1001 4 1	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
500	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 _{Anl}	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



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Report No.:1821C40001112501 FCC ID: 2ANWF-ET16001

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	Anbote	rek Vuposek	Aupotek Aup	Popolek VIII	'upotek	Anbotek Ar	Anbotek	Anb
		edge emissions (Ra sions in frequency ba		Aupolek 711	Auporen	Vupolek Vupolek	Anboick	1
	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	t-
100-	1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	.0
P	2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	0,000
	3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15	80,
,eK	4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Alpotek	Vupor otek	
n'bo	₁₀ 5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11	1/5
>	nb6iek	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	1001
	Kupo	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	P.

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal	Cal.Due Date
1,0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
Anba. 2	Pre-amplifier	SONOMA	310N A	186860	2024-01-17	2025-01-16
3 ^{Anh}	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.	EMI Test Software EZ-EMC	SHURPLE	N/A ^{botes}	N/A	otek / Aupote	Anbox

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2. Antenna requirement

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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.

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2.1. Conclusion

The antenna is a FPC antenna which permanently attached, and the best case gain of the antenna is 3.91 dBi. It complies with the standard requirement.

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3. Conducted Emission at AC power line

otek Aupotek	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the radiator in the rad	that is designed to be con	nected to the
Test Requirement:	back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	exceed the limits in the f	ollowing table, as
Vup.	Frequency of emission (MHz)	Conducted limit (dBµV)	ek anbole
k Aupore A	Pok Upoles Yun	Quasi-peak	Average
That Limits wollek	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56 Anbole A	46
rek upoter	5-30 And	60	50
Aupo, K. Polek	*Decreases with the logarithm of the	ne frequency.	botek
Test Method:	ANSI C63.10-2020 section 6.2	Spotek Aupolo	Yu.
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		
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3.1. EUT Operation

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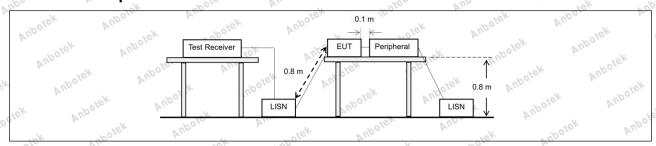
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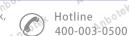
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		V	W.O.,	100		V. I	
Operating Envir	onment:	Aupolen	Yun Jek	Vupotek	Anbo	polek	Anb
Aupotek Au	hopping)) with GFSk	modulation.	Anbo	1000 %	smitting mode (
Test mode:	(non-hop 3: TX-8D	oping) with [`] OPSK (Non-	π/4 DQPSK mo Hopping): Keep	dulation.	18K	nsmitting mode	40.
lek Pupo,	hopping) with 8DPS	K modulation.	Y II.	"Olek	AUD	2/6

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3.2. Test Setup





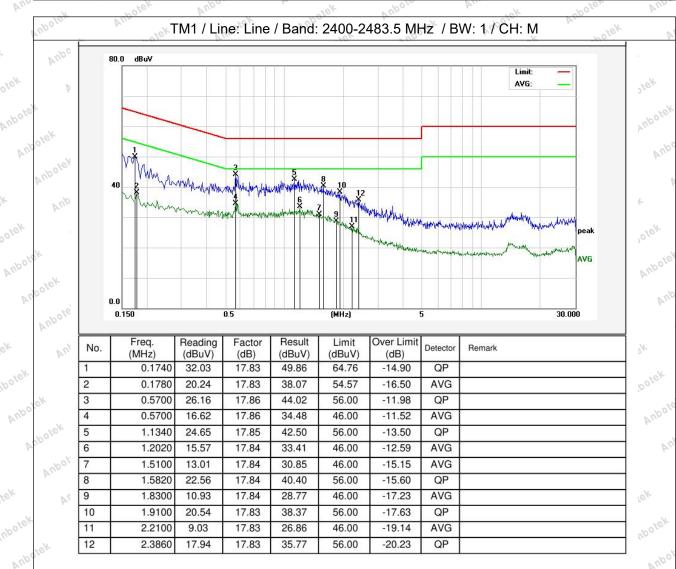
www.anbotek.com





3.3. Test Data

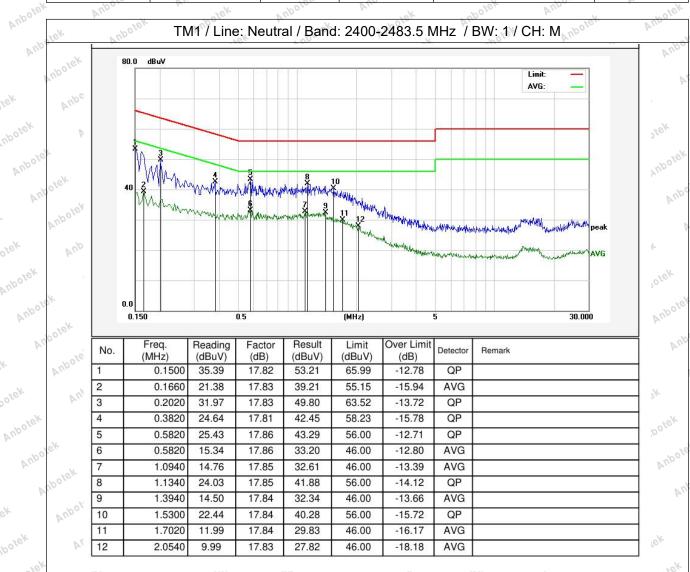
Temperature: 22.5 °C Humidity: 53 % Atmospheric Pressure: 101 kPa







Temperature: 22.5 °C Humidity: 53 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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4. Occupied Bandwidth

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. ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02 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/RBWJ)] 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. g) If the instru	Test Requirement:	47 CFR 15.247(a)(1)
Test Method: Use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02 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, function of the instrument (if available) and report the measured bandwidth function of the instrument (if available) and report the measured bandwidth function of the total is reached; that frequency is recorded as the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequency. The 99% power bandwidth is the difference between these two frequency. The 99% power bandwidth is the difference between these two frequen	rek Auporek	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
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. 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 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	Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
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. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. 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	Votek Vupotek Vupotek Vupotek	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
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 trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. 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	Aupotek Aupotek	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
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 trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. 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	Procedure:	d) Step a) through step c) might require iteration to adjust within the
trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. 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	Anbotek Anbotek	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.
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	Pek Vupolek	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
	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
	otek Vupotek	

4.1. EUT Operation

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Operating Envi	ronment:	boiek	Aupo.	W. Polek	Aupole.	-
Test mode:	1: TX-GFSK (Non-Hoppi	ng): Keep the	EUT in continu	uously transmitt	ting mode (no	n-









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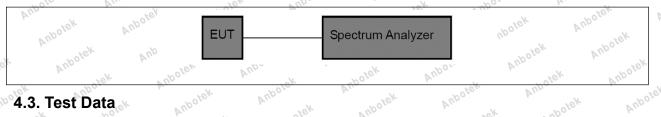
hopping) with GFSK modulation.

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- 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with 8DPSK modulation.

4.2. Test Setup

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4.3. Test Data

Temperature:	23.2 °C	Humidity:	48 %	Atmospher	ic Pressure:	101 kPa
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Please Refer to	Appendix for Det	ails.	Aupolek	And	abolek	Aupo.

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5. Maximum Conducted Output Power

P.	Total Man tok upo
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 KDB 558074 D01 15.247 Meas Guidance v05r02
otek Vupotek	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
Anbotek Anbotek	settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
ek Aupotek Au	 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
Aupotek Aupot	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
upotek Vupotek	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
Vuporek Vuporek	bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.
5.1. EUT Operation	Me. Will Wotek Wipolek Wipolek Wipolek Wipole

5.1. EUT Operation

Operating Envi	ronment:	Yun Yuk	upoiek	Anbo	potek	Anbolo
Test mode:	1: TX-GFSK (No hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (N hopping) with 8D	SK modulation. K (Non-Hopping) th π/4 DQPSK m on-Hopping): Kee	: Keep the I lodulation. ep the EUT	EUT in continu	ously transmittir	ng mode







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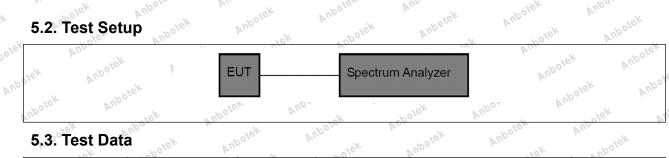
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5.2. Test Setup



5.3. Test Data

5.3. Test Dat	a hotek	Aupolek	'upole otek	Aupotek Aupotek	Aupoler.	Anotok
Temperature:	23.2 °C	Humidity:	48 %	Atmosph	eric Pressure:	101 kPa

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Please Refer to Appendix for Details.

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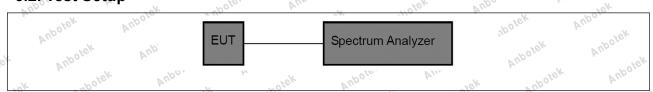
6. Channel Separation

-10° N.	All
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 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbote 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. c) Video (or average) bandwidth (VBW) ≥ RBW.
Procedure: Anbotek Anbotek Anbotek Anbotek	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
ek ^{Vuporek} Vupo _t	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

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	Operating Envir	onment:	Aupoles	Aug	anbotek .	Anbo	Polek.
× ×	Test mode:	with GFSK 5: TX-π/4- (hopping) v 6: TX-8DP	k modulation DQPSK (Hop with π/4 DQI	pping): Keep th PSK modulation g): Keep the EU	e EUT in conti n.	ly transmitting m nuously transmit sly transmitting i	Anbo

6.2. Test Setup



6.3. Test Data

Temperature: 23.2 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Anbolek 'upolek Anbolek Anbotek Anbolek Anbotek Anbolek Anbolek Anbolek Aupolek Anbotek Anbolek Please Refer to Appendix for Details. Anbolek Anbotek Anbotek Anbolek Anbotek Anboiek Anbotek Anbolek Anbotek Anbolek Anbotek Anbotek Anbotek Anbolek Anbotek Anbolek Anbolek Anbotek Aupolek Anboiek Anbotek Aupotek Anbotek Anbolek Anbotek Anbolek Anbolek Anbotek Anboiek Anbolek Anbolek Anbotek Anbotek Anbolek Anbolek Anbotek Anbotek Anbolek Anbolek Anbolek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbolek Anbolek Anbolek Anbotek Aupolek Anbotek Anbotek Anbolek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbolek Anbolek Anbotek Anbotek Anbolek Anbolek Anbotek Anbolek Anbotek Anbotek Anbotek Anboiek Anbotek Anbolek Anbolek Anbotek Anbotek Aupolek Anbotek Anboiek Anbotek Anbotek Anbotek Anbotek Anbolek Anbolek Anbotek Anbotek Anbotek Aupolek Anbotek Anbolek Anbolek Anbotek Anbolek Anbotek Anbotek Anbolek Anbotek Anbotek Anbolek Aupolek Anbolek Anbotek Anbotek Anbotek Anbolek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anboiek Anbolek Anbolek Aupolek Anbotek Anbolek Anbotek Anbotek Anbolek Aupolek Anbotek Aupolek Anbotek Anbotek

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7. Number of Hopping Frequencies

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

7.1. EUT Operation

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Operating Envi	ronment:	P. Polek	Aupole	Vur	Vupotek	Aupo
Test mode:	with GFSk 5: TX-π/4- (hopping) 6: TX-8DP	k modulation,. DQPSK (Hoppir with π/4 DQPSk	ng): Keep the K modulation.	n continuously tr EUT in continuo	usly transmitt	ing mode

7.2. Test Setup



7.3. Test Data

Temperature:	23.2 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





Aupotek



Report No.:1821C40001112501 FCC ID: 2ANWF-ET16001

8. Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek	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.
Who sek Aupotek	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.
Anbotek Anbotek Anbotek Procedure: Anbotek	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
Anbotek Anbotek	dwell time with the minimum number of channels. Use the following spectrum analyzer settings to determine the dwell time per
Potek Auporek Vindorek	hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be
Aupotek Aupotek	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.
ek Anbotek Anbotek	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.
Aupotek Aupotek	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 these two markers.

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

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

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

8.1. EUT Operation

Operating Environment:

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

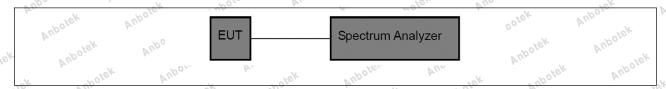
WILLIAM SIX MODULATION

Test mode:

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

6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

8.2. Test Setup



8.3. Test Data

Temperature:	23.2 °C	Aupo	Humidity:	48 %	Anbo	Atmospheric Pressure:	101 kPa	VA
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Please Refer to Appendix for Details.









9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: 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 §
Auporek Augorek	15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
Variotek Variotek Ver	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.
Aupotek Aupo	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed
Potek Vupotek Vek Vek Vek Vek Vek	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
upotek Aupotek	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.
Anbotek Anbotek Anbotek Anbotek Anbotek	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the





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

7.8.7.2 Band-edges

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

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

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

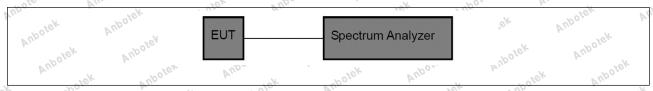
9.1. EUT Operation

Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
- 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
- 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

9.2. Test Setup

Test mode:



9.3. Test Data

Temperature: 23.2 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa 🗥
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Please Refer to Appendix for Details.







10. Band edge emissions (Radiated)

. NO. W.	Vie. Vie.	" " " " " " " " " " " " " " " " " " "	-V			
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			
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
Anboiek Anbo	0.009-0.490	2400/F(kHz)	300			
k Anbotek Ant	0.490-1.705 1.705-30.0	24000/F(kHz) 30	30			
r "olek	30-88	100 **	316k Aupa			
oter Vun	88-216	150 ** And	"3 _b			
Olek Aupole	216-960	200 **	3,000			
Test Limit:	Above 960	500 And And	3 potek			
ootek Aupotek Vipotek	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements					
Aupotek Aupotek	90 kHz, 110–490 kHz and a	peak detector except for the freq above 1000 MHz. Radiated emised on measurements employing	sion limits in			
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		potek Anbotek			
Procedure:	ANSI C63.10-2020 section	6.10.5.2	abotek Anbor			

10.1. EUT Operation

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	Operating Envir	onment:	Auport	Polek	Aupole	Vun Ofek	^{Vupo} iek	
06	Test mode:	hopping) 2: TX-π/- (non-hop 3: TX-8D) with GFSK m 4-DQPSK (No oping) with π/4	on-Hopping): Ke 4 DQPSK modu opping): Keep th	ep the EUT in lation.	continuously t	ransmitting mo	ode



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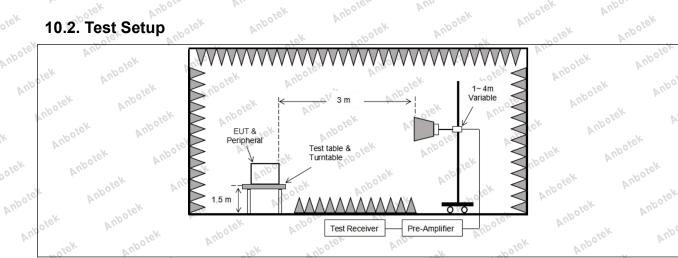
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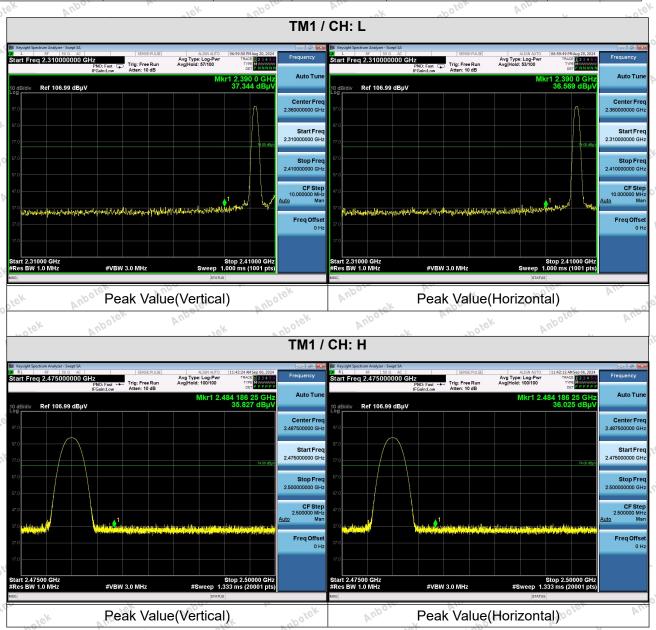
Hotline 400-003-0500 www.anbotek.com





10.3. Test Data

Temperature: 23.2 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Remark:

Aupolek

1. During the test, pre-scan all modes, the report only record the worse case mode.

Note: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.







11. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the
Vupotek Vupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
abotek Anbo	0.009-0.490	2400/F(kHz)	300 And
Al.	0.490-1.705	24000/F(kHz)	30 Anbole
ek Aupor	1.705-30.0	30 K Polek Aup	30
k holek	30-88	100 **	310k And
Thorem YUR	88-216	150 **	3
rick Vupole	216-960	200 **	3,400
Anbo	Above 960	500 photes And	3 Joseph
Aupotek Aupotek Aupotek Aupotek Aupotek Aupotek	However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown in the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits and the emiss	e, the tighter limit applies at the lin the above table are based on beak detector except for the free above 1000 MHz. Radiated emised on measurements employing	ted under other pand edges. measurements quency bands 9- ssion limits in
Test Method:	KDB 558074 D01 15.247 N	- 40.	polek Anbo
Procedure:	ANSI C63.10-2020 section	6.6.4	"polek V.
11.1. EUT Operatio	u Vuporer Vuporer	Anborek Anbor	Anbotek.

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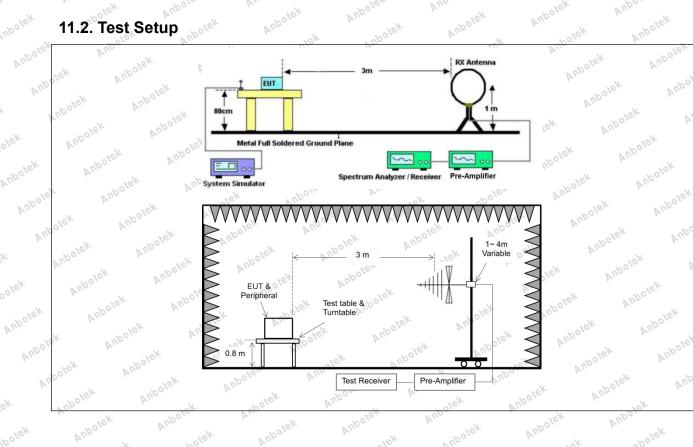
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11.2. Test Setup

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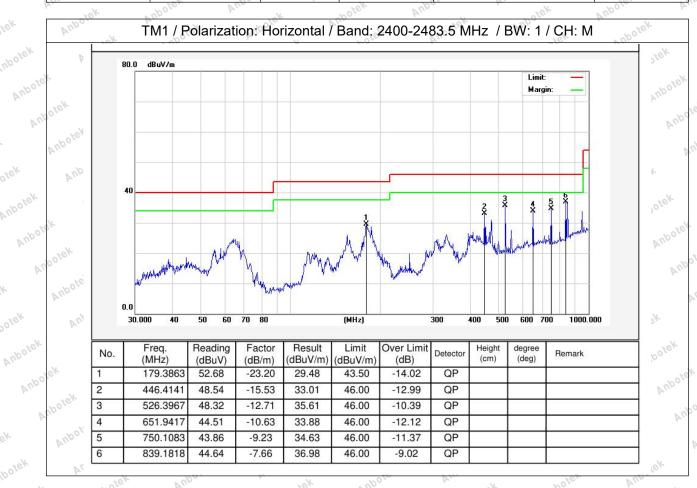




11.3. Test Data

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

	N 100 " A 111		V. VVV		W. P
Temperature:	20.3°C	Humidity	46 %	Atmospheric Pressure:	101 kPa
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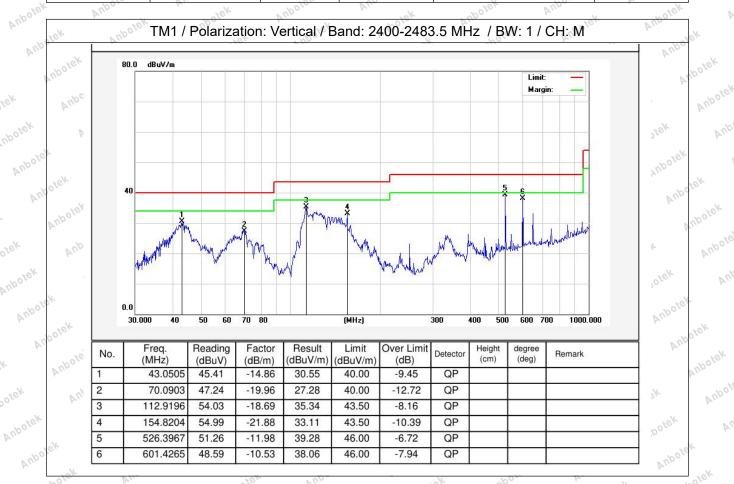






Report No.:1821C40001112501 FCC ID: 2ANWF-ET16001

Temperature: 20.3 °C Humidity: 46 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.

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Report No.:1821C40001112501 FCC ID: 2ANWF-ET16001

12. Emissions in frequency bands (above 1GHz)

"Upotek Vupotek	in § 15.209(a)(see § 15.20) Frequency (MHz)	Field strength (microvolts/meter)	Measuremen distance
Aug 100	(e) Anbo	Sk Valore VIII	(meters)
Aupore	0.009-0.490	2400/F(kHz)	300
. otek A	0.490-1.705	24000/F(kHz)	30 Aupor
Anbo	1.705-30.0	30 Aug	30
"ek "poler	30-88	100 **	31er Ar
ore W.	88-216	150 **	3
rotek Aupora	216-960	200 **	3 nbor
Aug Siek	Above 960	500 hotel And	3 rek
Test Limit: Anbotek Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH	hragraph (g), fundamental emiss ing under this section shall not l Iz, 76-88 MHz, 174-216 MHz or these frequency bands is permit	be located in the 470-806 MHz.
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MF However, operation within sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ing under this section shall not l lz, 76-88 MHz, 174-216 MHz or these frequency bands is permit	be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9 ssion limits in
Test Method:	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 these three bands are base	ing under this section shall not lead, 76-88 MHz, 174-216 MHz or these frequency bands is permit § 15.231 and 15.241. The tighter limit applies at the in the above table are based or peak detector except for the frequency above 1000 MHz. Radiated emited on measurements employing 6.6.4	be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9 ssion limits in

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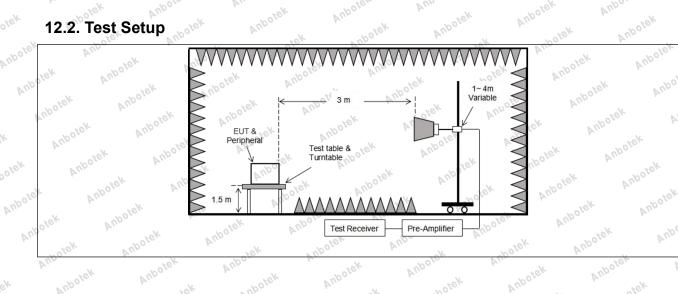
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Report No.:1821C40001112501 Anbotek FCC ID: 2ANWF-ET16001

Aupolek 12.3. Test Data

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12.3. Test Data	Vupotek Vupotek	Aupo, upokek	Anbotek Anbore	k Anbotek
Temperature: 23.6 °C	Humidity:	56.5 %	Atmospheric Pressure	: 101 kPa

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Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.91	15.27	44.18	74.00	-29.82	Vertical
7206.00	29.78	18.09	47.87	74.00	-26.13	Vertical
9608.00	31.20	23.76	54.96	74.00	-19.04	Vertical
12010.00	* *	tek napo	ick Aup	74.00	otek Vupo	Vertical
14412.00	Aupolek * Aup	S	polek An	74.00	"Olek D	Vertical
4804.00	29.14	15.27	44.41	74.00	-29.59	Horizontal
7206.00	30.59	18.09	48.68	74.00	-25.32	Horizontal
9608.00	28.98	23.76	52.74	74.00	-21.26	Horizontal
12010.00	*H ANDORE	VIII	upotek	74.00	k abotek	Horizontal
14412.00	Yek * nboke	K Aupor	, ho'	74.00	A.	Horizontal
Average value						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.29	15.27	33.56	54.00	-20.44	Vertical
7206.00	18.81	18.09	36.90	54.00	-17.10	Vertical
9608.00	20.22	23.76	43.98	54.00 NOO	-10.02	Vertical
12010.00	hote, * Ans	iek an	otek Vup.	54.00	botek Ant	Vertical
14412.00	" upolek * Ar	100. K	Polek	54.00	rek	Vertical
4804.00	17.49	15.27	32.76	54.00	-21.24	Horizontal
7206.00	19.65	18.09	37.74	54.00	-16.26	Horizontal
9608.00	18.29	23.76	42.05	54.00	-11.95	Horizontal
12010.00	tel * Whole.	VUs.	k upote	54.00	ok wol	Horizontal
14412.00	* *	ick Vupor	V	54.00 M	Ve. Williams	Horizontal

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Anbotek Ant	Anbotek A	hotek An	ole VII.	Aupolek A	upoter An	Anborek
~oter	And	187	ГМ1 / CH: M	,	-pole.	Ans
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	16k 28.93 M	15.42	44.35	74.00 M	-29.65	Vertical 📈
7323.00	29.63	18.02	47.65	74.00	-26.35	Vertical
9764.00	30.21	23.80	54.01	74.00	-19.99	Vertical
12205.00	Vupo*	Vung.	"upolek	74.00	hotek	Vertical
14646.00	*bolek	Aupor	"olek	74.00	Aur	Vertical
4882.00	28.84	15.42	44.26	74.00	-29.74	Horizontal
7323.00	30.58	18.02	48.60	74.00	-25.40 And	Horizontal
9764.00	28.68	23.80	52.48	74.00	-21.52	Horizontal
12205.00	Jek*	Aupoles A	up.	74.00	Aupo	Horizontal
14646.00	Vup. *	upotek	Vupote.	74.00	Anborok	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.02	otek 15.42 And	33.44	54.00	-20.56	Vertical
7323.00	18.91	18.02	36.93	54.00	-17.07	Vertical
9764.00	20.08	23.80	43.88	54.00	-10.12	Vertical
12205.00	*tek	Aupoten	All Olek	54.00	VUP.	Vertical
14646.00	All *	VUPOICH	Anbo	54.00	Aupor	Vertical
4882.00	17.40	15.42	32.82	54.00	-21.18,00 ¹¹	Horizontal
7323.00	19.21 nbot	18.02	37.23 And	54.00	-16.77	Horizontal
9764.00	18.80	23.80	42.60	54.00	-11.40	Horizontal
12205.00	Vupa *	Vupolek.	Anbolo	54.00	Aupolek.	Horizontal
14646.00	Aupor*	Viek	Aupolek	54.00	abotek.	Horizontal

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"oler	140	18/	anbo	L	~polo	VI.
		-	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	29.20	15.58 15.58	44.78	16 74.00 And	-29.22	Vertical
7440.00	29.64	17.93	47.57	74.00	-26.43	Vertical
9920.00	30.76	23.83	54.59	74.00	-19.41	Vertical
12400.00	* apoxek	Aupo	Polek.	74.00	Vier	Vertical
14880.00	* tek	Aupoles	Yun ick	74.00	Aupor	Vertical
4960.00	28.91	15.58	44.49	74.00	-29.51	Horizontal
7440.00	30.61	17.93	48.54 moli	74.00	-25.46	Horizontal
9920.00	29.36	23.83	53.19	74.00 M	-20.81	Horizontal
12400.00	*	upotek b	upo.	74.00	Anbole A	Horizontal
14880.00	Anbor *	N. Otek	Vupolek	74.00	anbotek.	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	19.14	15.58	34.72	54.00	-19.28 kg/b	Vertical
7440.00	19.92 M	17.93	37.85	54.00	-16.15	Vertical
9920.00	20.63	23.83	44.46	54.00	-9.54	Vertical
12400.00	Vun *	anbotek	Anos	54.00	Anborer	Vertical
14880.00	VUJ.	holek	Anbore	54.00	VUPOFER	Vertical
4960.00	18.84	15.58	34.42	54.00	-19.58	Horizontal
7440.00	20.58	17.93 ^{nb}	38.51	54.00 km ⁰⁰	-15.49	Horizontal
9920.00	18.70		42.53	54.00	6010 -11.47 And	Horizontal
12400.00	upole. * A	16K	anboiek 1	54.00	abotek	Horizontal
14880.00	1001ak	Vupore,	Polek	54.00	VI.	Horizontal

Remark:

- 1. Result =Reading + Factor
- Test frequency are from 1GHz to 25GHz, "*" 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

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Please refer to separated files Appendix I -- Test Setup Photograph RF

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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

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