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FCC Test Report

Applicant : D2G Group LLC

Address 81 Commerce Drive, Fall River, Massachusetts,

02720, United States

Product Name : 49inch Edge Collection Digital Kiosk

Report Date : Mar. 14, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









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TEST REPORT

Applicant : D2G Group LLC

Manufacturer : Shenzhen I-Pivot Intelligent Technology Co., Ltd

Product Name : 49inch Edge Collection Digital Kiosk

Test Model No. : DK049CLWE

Reference Model No. : N/A

Date of Receipt:

Trade Mark : Displays2go

Rated Voltage: AC 100-240V

Rating(s) Rated Current: 1.8A

Rated Frequency: 50/60Hz

Max Power Consumption: 160W

47 CFR Part 15E

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

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

Feb. 02, 2024

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.

sk Aupotek Aupor Ar. upote	Anboret Anb
Date of Test:	Feb. 04, 2024 to Mar. 07, 2024
	Illa Liang
Prepared By:	And tek Anbote And tek Jobeth Anbo
	(Ella Liang)
	Idward pan
Approved & Authorized Signer:	pose, Yus tek "posek Tupo K. Posek
and Anbore And	(Edward Pan)







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Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek Ant	Original Issue.	Mar. 14, 2024
3	Anbotek Anbotek	Anbotek Anbotek Anbotek	Anbotek Anbotek Ant
/0	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter





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1. General Information

1.1. Client Information

Applicant	: D2G Group LLC
Address	: 81 Commerce Drive, Fall River, Massachusetts, 02720, United States
Manufacturer	: Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, Longgang District, Shenzhen, Guangdong, China
Factory	: Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, Longgang District, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

1.2. Description C	14/0-	John (201)
Product Name	:	49inch Edge Collection Digital Kiosk
Test Model No.	:	DK049CLWE
Reference Model No.	:	N/Abotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Displays2go
Test Power Supply	:	AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A And Andorek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(VHT40)/ax(HEW40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz;
Number of Channel	:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 4; U-NII Band 2A: 4; U-NII Band 2C; 11; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 2;







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70 · Pr.		746.		A	
		U-NII Band 2A: 2;	Anbore Am	Anborek Anbo	
		U-NII Band 2C: 5;	abotek Anbo	Potek Aupore	
		U-NII Band 3: 2;	Ar. otek Anboter	And sk shorek	
		802.11a: OFDM(BPSK, 0	QPSK, 16QAM, 64QAM);	Anboro An	
Modulation Type		802.11n: OFDM (BPSK,	QPSK, 16QAM, 64QAM);	rek anboten Anbe	
Modulation Type	•	802.11ac: OFDM (BPSK	, QPSK, 16QAM, 64QAM,	, 256QAM);	
		802.11ax: OFDM (BPSK	, QPSK, 16QAM, 64QAM,	, 256QAM, 1024QAM)	
Antenna Type	:	Rod Antenna	Anboren And hotek	Anbotek Anbo.	
		Wi-Fi 5.2G: 5.06dBi	Aupoter Aug	upotek Anbo.	
Antonna Cain/Dook)		Wi-Fi 5.3G: 5.17dBi			
Antenna Gain(Peak)		Wi-Fi 5.6G: 5.21dBi			
		Wi-Fi 5.8G: 5.28dBi		tek Anbore Ans	
Davisa Tura		☐ Outdoor AP	☐ Indoor AP	☐ Point-to-point AP	
Device Type	•	⊠ Client	botek Anboten An	bek aborek p	
TPC Function	:	☐ With TPC	⊠ Without ⁻	TPC Management	
DFS Type		⊠ Slave without radar de	etection Slave wit	th radar detection	
		☐Master	Aupo sek	Anbore K Ans	
Remark:	(8,	And ak hotek	Aupo. W.	ek upoter And	
	fica	ation are provided by custo	omer.	r. sek	
		eatures description, please		- K 60/2 - 5//	

User's Manual.





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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
AX1500 Wi-Fi 6 Router	Micronet Union Technology(Chengdu)	T262-T21D (FCC ID: 2A22E-	Anbotes And
k hotek Anbo	Co., Ltd	WWYLT262)	lek Wupp.





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1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Projek	AUDIE
Channel	Frequency (MHz)	Channel	Frequency (MHz)	, hotek	Yupoter
36	5180 Mbore	38	5190	tek / vupo	lek \ Vupo,
40	5200	46	5230	Jek /	potek / Ar
hotek 44 Ando	5220	port / Am	Andriek	no otek	nbotel
Anborer 48 Anbo	5240	Aupore Au	lek Wpoles	Anbe Liek	anb hek

Operation Band: U-NII Band 2A

Bandwidth:	20MHz	Bandwidth:	40MHz	ek / Anbot	sk / Aupo.
Channel	Frequency (MHz)	Channel	Frequency (MHz)	hotek / An	otek / An
52 hotek	5260	tek 54 nbotek	5270	torot of	Anboiek
Ambou 56	5280	62 Mbot	5310	Andrek	Anb greek
60 Anno	5300° te	Ando Mek An	potek /Anbore	Ans boick	Avotek
64	5320 Anbore	Anbo / Stek	Anbotek / Anbot	ek / shore	k \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Operation Band: U-NII Band 2C

Operation Barra. C	Tim Barra 20	VO., Dr.			
Bandwidth:	20MHz	Bandwidth:	40MHz	anboiely .	rupose / b
Channel	Frequency (MHz)	Channel	Frequency (MHz)	anb dek	Aupolo
100	5500	102 pm	5510	Motek	APPOTO
104	nbotek 5520 mbote	110	5550 M	k I anbote	Anbore
108	25540 Anbox	118	5590	otek / Anb	otek / Anbi
112	5560	126	5630	work!	nbotek / A
Inbore 116 And hotel	5580	134 Nbore	5670	YUR POLEK	Aupolisk
120 And 120	5600	Anbo. stek	otek Inbote	Aughorek	Anyotek
124	5620 no tel	Aupoliek	nbotek / Anbote	k And botel	Anbore
128	5640 Anbore	Anbo	Anborek / Anbore	rek \varphi	tek / Anbo
132	5660	Dreit Augustak	Anbotek Anb	D. Bu	botek / A
nbotek 136 mbon	5680	inbote, And hotel	Anblek	upo, sek	abot of
Anborek 140 Anbor	5700	Anbore. And	tek Anbotek	Aupo,	and brek





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Operation Band: U-NII Band 3

- 1-5/4-11-11-1	· · · · · · · · · · · · · · · · · · ·	012 P11.		70-	- V
Bandwidth:	20MHz	Bandwidth:	40MHz	abovek	Aupole
Channel	Frequency (MHz)	Channel	Frequency (MHz)	hi. Sotek	AUDIE
149	5745 botter	151	5755 100 and	, nbotek	Yupoter
153	nbore 5765 Anbore	159	Anbore 5795 Anbor	tek / upo	iek / Aupo
157	5785	Me Am	Aupotek Aup	otek /	potek / Ar
hotek 161 nbo	5805	potek / Am	Anbolen	Upo Otek	Anbotel
Anboret 165 Anboret	5825	Auport Au	tek Wooten	Anb. Liek	anb Nek

1.5. Description of Test Modes

Pretest Modes	Descriptions
nbotek Antotek Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Anbotek TM2	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
hotek Anbotek Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek TM4	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
ek Anbotek TM5 Anbotek	Keep the EUT works in normal operating mode and connect to companion device

Hotline



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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Occupied Bandwidth	925Hz
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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1.7. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3,4	Ann Potek
Duty Cycle	Mode1,2,3,4	P
Maximum conducted output power	Mode1,2,3,4	P PART
Power spectral density	Mode1,2,3,4	P
Emission bandwidth and occupied bandwidth	Mode1,2,3,4	kupo. P
Channel Move Time, Channel Closing Transmission Time	Mode5	Anb P rek
DFS Detection Thresholds	Mode5 Andrew	P
Band edge emissions (Radiated)	Mode1,2,3,4	PART
Band edge emissions (Conducted)	Mode1,2,3,4	P An
Undesirable emission limits (below 1GHz)	Mode1,2,3,4	upore P
Undesirable emission limits (above 1GHz)	Mode1,2,3,4	Anboy P
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anborr





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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

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

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







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1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k spotel	Anbore	An
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
2 5016K	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborotek

Duty Cycle

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

Band edge emissions (Conducted)

Channel Move Time, Channel Closing Transmission Time

DFS Detection Thresholds

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
e* 1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
Anbox	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
o 6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22





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Band	edge emissions (Ra	idiated)	N. Anbotak	Aupore	Ann	Aupotek A
Unde	sirable emission limi	ts (above 1GHz)	hotek	Aupore	V.L.	- abotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbote 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Anbotek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Unde	sirable emission limit	ts (below 1GHz)				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
3/-	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antotel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.nb	EMI Test Software EZ-EMC	SHURPLE	N/A nbot	N/A door	V Vupo,	Anbotek



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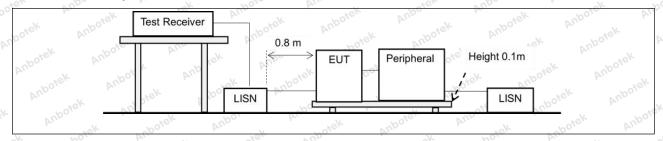
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ick hotek An	pore. And	
Aug sek Spotek	Frequency of emission (MHz)	Conducted limit (dBµV) boten And	
Anbor Ar	tel uporen And	Quasi-peak	Average	
K- Lotek Anbo	0.15-0.5	66 to 56*	56 to 46*	
Test Limit:	0.5-5 And	56°	46 300 tell	
otek Anbore A	5-30	60 hotek Anbot	50	
atek Anbotek	*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.10-2020 section 6.2	Augo Kek	otek Anbore	

2.1. EUT Operation

popo,	Ar. Poter Vuos , tek voos Ar. Pote
Operating Envir	onment:
otek Anbotek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Test mode:	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
otek Anbotek	3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek Anbo	4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

2.2. Test Setup



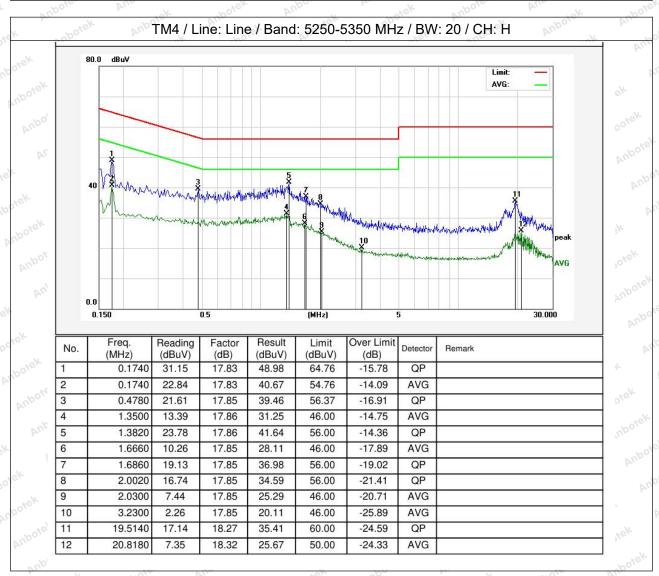




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2.3. Test Data

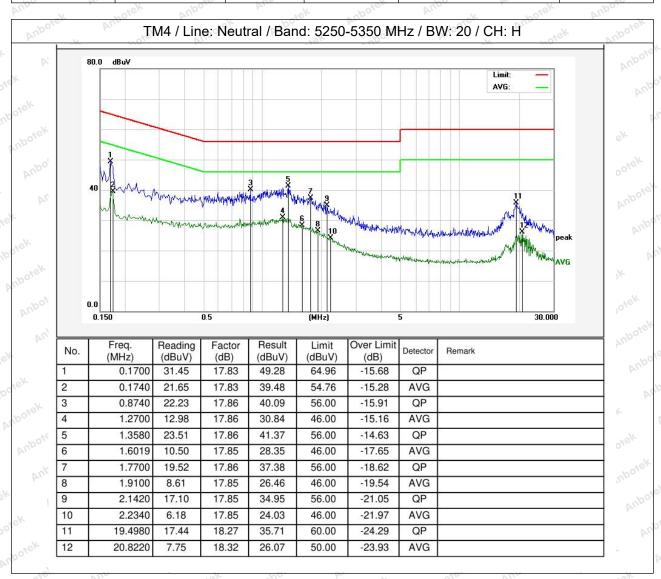
Temperature: 25 °C Humidit	/: 48 %	Atmospheric Pressure:	101 kPa
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Temperature: 25°C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data 802.11ax(HEW20) in the report.





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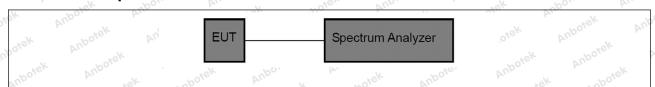
3. Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Limit:	No limits, only for report use.
Test Method:	ANSI C63.10-2020 section 12.2 (b)
Anbotek Anbotek Anbotek Anbotek	 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value.
Procedure:	iii) Set VBW >= RBW. iv) Set detector = peak.
otek Anbotek Anb	v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

3.1. EUT Operation

Operating Env	ironment: Anborek Anborek Anborek
tek Anboten	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
- Vupotek Vupotek Pupotek	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Test mode:	3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
	4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

3.2. Test Setup



3.3. Test Data

Temperature:	25 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.









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4. Maximum conducted output power

hpp. k.	Thouse My " " " " " " " " " " " " " " " " " "
	47 CFR Part 15.407(a)(1)(iv)
Test Requirement:	47 CFR Part 15.407(a)(2)
	47 CFR Part 15.407(a)(3)(i)
r upoter Aupo	For client devices in the 5.15-5.25 GHz band, the maximum conducted
	output power over the frequency band of operation shall not exceed 250 mW
ster And	provided the maximum antenna gain does not exceed 6 dBi.
Loiek Anbore	If transmitting antennas of directional gain greater than 6 dBi are used, the
	maximum conducted output power shall be reduced by the amount in dB that
	the directional gain of the antenna exceeds 6 dBi.
	An Otek Vupoter, Aun Sk potek Vupo, W.
	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted
Anbo. K	output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission
	bandwidth in megahertz.
	If transmitting antennas of directional gain greater than 6 dBi are used, the
	maximum conducted output power shall be reduced by the amount in dB that
	the directional gain of the antenna exceeds 6 dBi.
Test Limit:	Anbo Anborek Anboree Anb tek nborek Anbo
	For the band 5.725-5.850 GHz, the maximum conducted output power over
	the frequency band of operation shall not exceed 1 W.
	If transmitting antennas of directional gain greater than 6 dBi are used, the
Aug.	maximum conducted output power shall be reduced by the amount in dB that
	the directional gain of the antenna exceeds 6 dBi.
	However, fixed point-to-point U-NII devices operating in this band may
	employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-
anbotek Anbo	point operations exclude the use of point-to-multipoint systems,
	omnidirectional applications, and multiple collocated transmitters transmitting
	the same information. The operator of the U-NII device, or if the equipment is
	professionally installed, the installer, is responsible for ensuring that systems
ak shotek Ar	employing high gain directional antennas are used exclusively for fixed,
Jose Aug	point-to-point operations.
Test Method:	ANSI C63.10-2013, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4
Ann sek	Dog By A Color William Walk Dog

4.1. EUT Operation

Operating Envir	onment:
Anbotek Anbotek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Test mode:	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. 3: 802.11ac mode: Keep the EUT connect to AC power line and works in





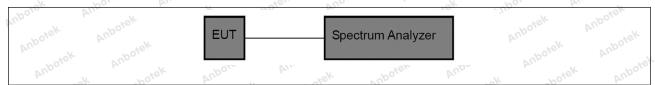


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continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

4.2. Test Setup



4.3. Test Data

of	Temperature:	25 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	P
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Please Refer to Appendix for Details.

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5. Power spectral density

Apple Otto Wobooti	Autories Autoo. W. Notek Wholes Wun
	47 CFR Part 15.407(a)(1)(iv)
Test Requirement:	47 CFR Part 15.407(a)(2)
Anbo. K. K.	47 CFR Part 15.407(a)(3)(i)
k Anbotek Anbo	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.
tek Anbotek	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that
	the directional gain of the antenna exceeds 6 dBi.
	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power
	spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the
	maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Limit:	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.
	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-
	point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.
	Fixed, point-to-point operations exclude the use of point-to-multipoint
	systems, omnidirectional applications, and multiple collocated transmitters
	transmitting the same information. The operator of the U-NII device, or if the
	equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2020, section 12.6
Procedure:	Refer to ANSI C63.10-2020, section 12.6
- Ack	Jupy W. Jk Bake, My Jiek Jupo.

5.1. EUT Operation

Operating Envi	ronment: Andrew Andrew Andrew Andrew Andrew
anbotek Anbotek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Test mode:	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
k Anbotek	3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.



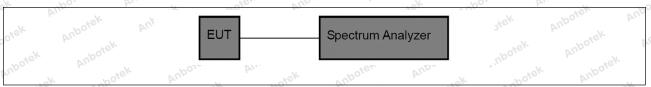




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4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

5.2. Test Setup



5.3. Test Data

Temperature:	25 °C	Humidity:	48 %	Atmospheric Pressure: 101 kPa	AUPC
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Please Refer to Appendix for Details.





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6. Emission bandwidth and occupied bandwidth

boiek Anbore	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	Aupo, An Otek Vupoter Vupoter Vupotek Vupotek Vupotek
Anbore And	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Anbotel Anbe	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	ok hotek Anbor An tek noboter Anb
hotek Anbotek	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 6.9 & 12.5 KDB 789033 D02, Clause C.2
Anbore All hote	Emission bandwidth:
Anboten Anb	a) Set RBW = approximately 1% of the emission bandwidth.
ok botek Anb	b) Set the VBW > RBW.
Andrek	c) Detector = peak.
otek Aupo,	d) Trace mode = max hold.
Anbotek Anboten	e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission.
Anbotek Anbote	Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement
Aupole, Aug	as needed until the RBW/EBW ratio is approximately 1%.
K Aupo, K	Occupied bandwidth:
otek Anbotek A	a) The instrument center frequency is set to the nominal EUT channel center frequency. The
Anbore Anborek	frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
Procedure:	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW,
Anboardiek Anboardiek	and VBW shall be approximately three times the RBW, unless otherwise specified by the
and and	applicable requirement.
nbotek Anbotek	c) Set the reference level of the instrument as required, keeping the signal from exceeding the
Anbotek Anbotek	maximum input mixer level for linear operation. In general, the peak of the spectral envelope
Anbotek Anbot	shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given
ek botek An	in 4.1.5.2.
Pupotek Vupotek	d) Step a) through step c) might require iteration to adjust within the specified range.
Anbotek Anbotek	 e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode
Anbotek Anbote	shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be
70.	- 1 - 1 - 700 W. A - 140, VUS.
Aupo, A.	used.









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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 plot(s) of the measuring instrument

display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may

be reported in addition to the plot(s).

6 dB emission bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 >= RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.1. EUT Operation

Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only





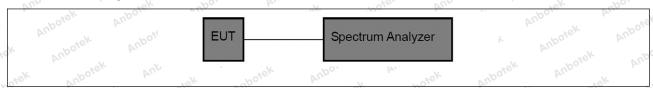




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the data of worst case is recorded in the report.

6.2. Test Setup



6.3. Test Data

\/.	.0'	D/A.	·64	. V. 100°	D1.
Tomporoturo	25 °C	Humidity:	48 %	Atmoonhorio Drogouro:	101 kDa
Temperature:	20 .0	πumuky.	40 70	Atmospheric Pressure:	I IU I KPa 🧢 🗆
~ QV .	- V-	700, by 3			Y 70.

Please Refer to Appendix for Details.





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7. Channel Move Time, Channel Closing Transmission Time

Test Requirement:	47 CFR Part 15.407(h)(2)(iii)
Vupotek Vupotek	Channel Move Time: within 10 seconds
	Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60
anboter And	milliseconds over remaining 10 second period. (The Channel Closing
Test Limit:	Transmission Time is comprised of 200 milliseconds starting at the beginning
And And	of the Channel Move Time plus any additional intermittent control signals
ntek Anbores	required to facilitate a Channel move (an aggregate of 60 milliseconds)
ype k hotek	during the remainder of the 10 second period. The aggregate duration of
Aupoie, Aur -ok	control signals will not count quiet periods in between transmissions.)
Test Method:	KDB 905462 D02, Clause 7.8.3
	The steps below define the procedure to determine the above-mentioned
	parameters when a radar Burst with a level equal to the DFS Detection
	Threshold + 1dB is generated on the Operating Channel of the U-NII device
	(In- Service Monitoring).
	1. One frequency will be chosen from the <i>Operating Channels</i> of the UUT
	within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices,
	the test frequency must contain control signals. This can be verified by
abotek Anbo.	disabling channel loading and monitoring the spectrum analyzer. If no control
Am. sek abote	signals are detected, another frequency must be selected within the
	emission bandwidth where control signals are detected.
	2. In case the UUT is a U-NII device operating as a <i>Client Device</i> (with or
	without DFS), a U-NII device operating as a <i>Master Device</i> will be used to
	allow the UUT (Client device) to Associate with the Master Device. In case
	the UUT is a <i>Master Device</i> , a U-NII device operating as a <i>Client Device</i> will be used and it is assumed that the Client will <i>Associate</i> with the UUT
	(Master). In both cases for conducted tests, the <i>Radar Waveform</i> generator
	will be connected to the <i>Master Device</i> . For radiated tests, the emissions of
	the <i>Radar Waveform</i> generator will be directed towards the <i>Master Device</i> . If
	the <i>Master Device</i> has antenna gain, the main beam of the antenna will be
Procedure:	directed toward the radar emitter. Vertical polarization is used for testing.
	3. Stream the channel loading test file from the <i>Master Device</i> to the <i>Client</i>
	Device on the test Channel for the entire period of the test.
	4. At time T0 the <i>Radar Waveform</i> generator sends a <i>Burst</i> of pulses for one
	of the Radar Type 0 in Table 5 at levels defined in Table 3 , on the <i>Operating</i>
	Channel. An additional 1 dB is added to the radar test signal to ensure it is at
And work	or above the DFS Detection Threshold, accounting for equipment
	variations/errors.
	5. Observe the transmissions of the UUT at the end of the radar <i>Burst</i> on the
	Operating Channel for duration greater than 10 seconds. Measure and
	record the transmissions from the UUT during the observation time (Channel
	Move Time). Measure and record the Channel Move Time and Channel
	Closing Transmission Time if radar detection occurs. Figure 17 illustrates
	Channel Closing Transmission Time.
	6. When operating as a <i>Master Device</i> , monitor the UUT for more than 30
	minutes following instant T2 to verify that the UUT does not resume any
	transmissions on this <i>Channel</i> . Perform this test once and record the
	measurement result.
	7. In case the UUT is a U-NII device operating as a Client Device with In-

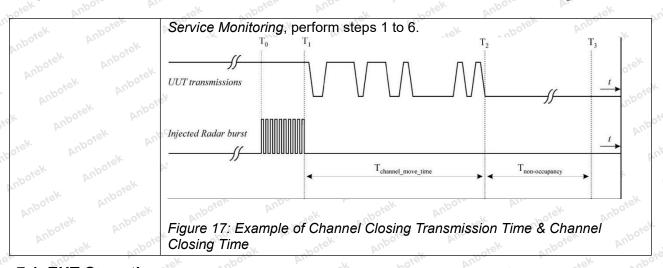








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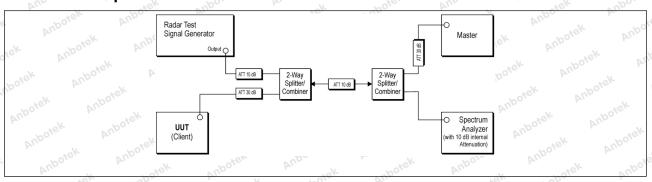
7.1. EUT Operation

Operating Environment:

Test mode:

5: Normal Operating: Keep the EUT works in normal operating mode and connect to companion device

7.2. Test Setup



7.3. Test Data

Temperature: 25 °C Humidity: 48 % Atmo	spheric Pressure: 101 kPa
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Please Refer to Appendix for Details.



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400-003-0500



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8. DFS Detection Thresholds

Test Requirement:	KDB 905462 D02, Clause 5.2 Table 3	
Anbotek Anbotek	Table 3: DFS Detection Thresholds for Master E with Radar Detection	Devices and Client Devices
Aupotek Aupo,	Table 3: DFS Detection Thresholds for Ma and Client Devices with Radar De	
tek Anbore An	Maximum Transmit Power	Value (See Notes 1, 2, and 3)
Test Limit:	EIRP ≥ 200 milliwatt EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-64 dBm -62 dBm
Anborek Anborek	EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Anbotek Anbotek Anbotek Anb	Note 1: This is the level at the input of the receiver assuming a 0 dl Note 2: Throughout these test procedures an additional 1 dB has be test transmission waveforms to account for variations in measurement the test signal is at or above the detection threshold level to trigger Note3: EIRP is based on the highest antenna gain. For MIMO device 662911 D01.	ten added to the amplitude of the ent equipment. This will ensure that a DFS response.
Test Method:	KDB 905462 D02, Clause 7.4.1.1	Anb stek anbotek
Anbotek Anbo	1) A 50 ohm load is connected in place of the spectrum analyzer is connected to place of the	
Anbotek Anbotel	2) The interference Radar Detection Threshold had been taken into account the output power r	
k Anbotek Anbe	3) The following equipment setup was used to a waveform. A vector signal generator was utilized	d to establish the test signal
Procedure:	level for radar type 0. During this process, there either the master or client device. The spectrum the zero spans (time domain) at the frequency of	n analyzer was switched to of the radar waveform
Aupotek Aupotek	generator. Peak detection was used. The spect bandwidth (RBW) and video bandwidth (VBW) spectrum analyzer had offset -1.0dB to compen	were set to 3 MHz. The
k Aupolek Aupo	4) The vector signal generator amplitude was someasured at the spectrum analyzer was TH + 0	
KK	the spectrum analyzer plots on short pulse rada	120

8.1. EUT Operation

Operating Envir	onment:		Aupartek				Anboten
Lesi mode:	5: Normal C	- OF	Keep the E	UT works in	normal oper	ating mode and	connect to

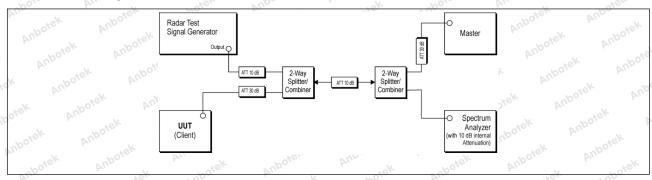






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8.2. Test Setup



8.3. Test Data

e)	Temperature:	25.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
_	rompolataro.	20.1	Julianity.	10 70	Authorphion i roccaro.	TO TO

Please Refer to Appendix for Details.





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9. Band edge emissions (Radiated)

	" Up"	70, VI.	-xev	Up.	N-	~0,
	hotek Anbote	47 CFR Part 15.407(b)(1)	Aupo.	hotek	Anbore	YUN JOK
	Aug sek spotek	47 CFR Part 15.407(b)(2)			abotek	Aupo.
	Test Requirement:	47 CFR Part 15.407(b)(3)	boick			Aupote
.z.e	k anbotek Anbo	47 CFR Part 15.407(b)(4)				4 .76
3 -	-k hotek An	47 CFR Part 15.407(b)(10)	isk Vupo	-k	ek Aupole	Vur
	180, VAA	-V 10'		10, 704		-V-

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Testal	imit.

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2) NOW
13.36-13.41	ice Vupo	otek or	100se Pier

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.





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Anbotek Anbotek	² Above 38.6	Anbore Ant Stek Anbor	ek Aupo
Anbo. A. Siek	Anbore And		
potek Aupo	The field strength of emiss	ions appearing within these fred	quency bands shall
Arra spote		n in § 15.209. At frequencies ec	
Aupore All		h the limits in § 15.209shall be o	
k hotek Anb		mentation employing a CISPR o	
And		, compliance with the emission	
stek upote.		ted based on the average value	
o dek	emissions. The provisions	in § 15.35apply to these measu	rements.
apoier Ands	potek Aupore A	The Aporek And	k botek
Thotel.	Except as provided elsewh	nere in this subpart, the emission	ns from an
Anbo. A. Stel		ot exceed the field strength level	
botek Anbo.	following table:	A CACCCA THE HOLD STORIGHT TOVO	o opcomed in the
Vu.	Frequency (MHz)	Field strength	Measurement
k Anbore Air	Trequency (Miriz)	(microvolts/meter)	distance
	upo kek upo	(microvoits/meter)	(meters)
ye. Aug	0.009-0.490	2400/F(kHz)	300
potek Anbore	0.490-1.705	24000/F(kHz)	30
up of potek	1.705-30.0	30	30
Vupoje, Vup	30-88	100 **	3ek abotek
work anbore	88-216	150 **	3
Vupa K	216-960	200 **	3 ofer Anbo
Anboten And	Above 960	500	3
ok hotek Ar	V0,	aragraph (g), fundamental emiss	sions from
And And		ting under this section shall not	
otek anbore		Hz, 76-88 MHz, 174-216 MHz or	
loc k cotek		these frequency bands is permi	
aboten Anbe	sections of this part, e.g., §		k hotek
	VII	e, the tighter limit applies at the	hand edges
	70. K.	in the above table are based or	- VO.
aboten Anbe	-02	peak detector except for the fre	
Br. sek		above 1000 MHz. Radiated emi	
lek Yupo. Y.	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ed on measurements employing	
ek abotek	detector.	od on mododromonio ompioyme	, an avolugo
POL VIII	Pore, Pur	Total Aubor An	ek spoter
Test Method:	ANSI C63.10-2020, section	n 12.7.4, 12.7.6, 12.7.7	

lest Method:

Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

Procedure:

- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Shenzhen Anbotek Compliance Laboratory Limited







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- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.
 Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

9.1. EUT Operation

Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.



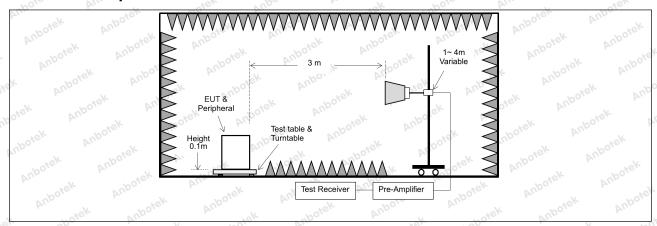






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9.2. Test Setup







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9.3. Test Data

Temperature: 25 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa
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		TM1 / B	and: 5150-5	350 MHz / BV	N: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	37.02	15.99 M	53.01	68.20	-15.19	wołek H	Peak
5150.00	39.10	15.99	55.09	68.20	-13.11	V.	Peak
5150.00	26.95	15.99	42.94	54.00	-11.06	And Hick	AVG
5150.00	29.01	15.99	45.00	54.00	-9.00	AUD GEK	AVG
		TM1 / B	and: 5150-53	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.46	16.43	53.89	68.20	-14.31	H	Peak
5350.00	40.43	16.43	56.86	68.20	-11.34	And Vick	Peak
5350.00	28.80	16.43	45.23	54.00	-8.77	AUB, IK	AVG
5350.00	29.68	16.43	46.11	54.00	-7.89	Wpoyer	AVG

Remark: 1. Result=Reading + Factor

		TM2 / B	and: 5150-5	350 MHz / BV	V: 20 / L	200	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.95	15.99	51.94	68.20	-16.26	Horek	Peak
5150.00	37.36	15.99	53.35	68.20	-14.85	ek V noore	Peak
5150.00	26.67	15.99 nbot	42.66	54.00 NO	-11.34	ek H	otel ^k AVG Malo
5150.00	27.66	500° 15.99 AN	43.65	54.00	10.35 AT	V	AVG
		TM2 / B	and: 5150-53	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.78	16.43	54.21	68.20	-13.99	k Habotel	Peak
5350.00	38.81	16.43	55.24	68.20	-12.96	V V	Peak Peak
5350.00	27.82	16.43	44.25	54.00	9.75 AN	H	AVG
5350.00	29.28	16.43	45.71	54.00	-8.29	inpoter A	AVG

Remark: 1. Result=Reading + Factor





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				Up			
		TM2 / B	and: 5150-53	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.52	15.99	52.51	68.20	-15.69	k Hanboren	Peak
5150.00	38.36	15.99	54.35	68.20 nbon	-13.85	otek V Anbo	Peak
5150.00	27.09	15.99	43.08	54.00	-10.92	hotek H	AVG
5150.00	28.76	15.99	44.75	54.00	-9.25	V.	AVG
		TM2 / B	and: 5150-53	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	38.11 vo ^{te}	16.43	54.54	68.20	-13.66	tek H Anboi	Peak
5350.00	36.96	16.43	53.39	68.20	-14.81	V V	o ^{dell} Peak 🗚
5350.00	28.34	16.43	44.77	54.00	-9.23	H W	AVG
5350.00	29.55	16.43	45.98	54.00	-8.02	Anborv	AVG

Remark: 1. Result=Reading + Factor

	6//,	10%			V ~ ~ ~ ~	011.	26
		TM3 / E	and: 5150-5	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.98	15.99	52.97	68.20	-15.23	Anbore ^H	Peak
5150.00	38.74	15.99	54.73	68.20	-13.47	Nok Nok	Peak
5150.00	26.58	15.99	42.57	54.00	-11.43	Horiek	AVG
5150.00	28.79	15.99	44.78	54.00	-9.22	ek V note	AVG
		TM3 / B	and: 5150-53	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.90	16.43	54.33	68.20	-13.87	A HOLD	Peak
5350.00	38.15	16.43	54.58	68.20	-13.62	Votek	Peak
5350.00	27.82	16.43	44.25	54.00	-9.75	H del	AVG
5350.00	28.40	16.43	44.83	54.00	-9.17 ₀ 0000	VAUDO	AVG

Remark: 1. Result=Reading + Factor





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0, 57,		7181 VU	,	40.	10, V.		7464
		TM3 / B	and: 5150-53	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.93	15.99	51.92	68.20	-16.28	AHk	Peak
5150.00	36.36	15.99	52.35	68.20	-15.85	Nupp.	Peak
5150.00	26.13 ^{nb0}	15.99	42.12 A	54.00	11.88 NO	otek H Anbo	AVG
5150.00	26.85 An	15.99	42.84	54.00	-11.16	nbotek V A	AVG
		TM3 / B	and: 5150-53	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	38.07	16.43	54.50	68.20	-13.70	H _{UD}	Peak
5350.00	37.20	16.43	53.63	68.20	-14.57	isk A Vupo	Peak
5350.00	ote 27.51 And	16.43	43.94	54.00	-10.06	Notek H An	AVG AVG
5350.00	27.52	16.43	43.95	54.00	-10.05	V	AVG

Remark: 1. Result=Reading + Factor

	-V				e up	¥ .	
		TM4 / B	and: 5150-5	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.97	15.99	51.96	68.20	-16.24	Anbore H	Peak
5150.00	37.38	15.99	53.37	68.20	-14.84	Aup O.	Peak
5150.00	26.69	15.99	42.68	54.00	-11.32	Hoolok	AVG
5150.00	27.67	15.99	43.66	54.00	-10.34	sk Vanbote	AVG
		TM4 / B	and: 5150-5	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.80	16.43	54.23	68.20	-13.97	Anb H	Peak
5350.00	38.83	16.43	55.26	68.20	-12.94	Notek	Peak
5350.00	27.84	16.43	44.27	54.00	-9.74	K H potel	AVG
5350.00	29.30	16.43	45.73	54.00	-8.27 · · · ·	V	AVG

Remark: 1. Result=Reading + Factor





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		TM4 / B	and: 5150-53	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.54	15.99	52.53	68.20	-15.67	HA HON	Peak
5150.00	38.38	15.99	54.37	68.20	-13.83	Nupp.	Peak
5150.00	27.11 ^{nb°}	15.99	43.10 nbo	54.00	10.90 NO	otek H Anbo	AVG
5150.00	28.77	15.99	44.76	54.00	-9.24	nbotek V Ar	AVG
		TM4 / B	and: 5150-53	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	38.12	16.43	54.55	68.20	-13.65	Hup	Peak
5350.00	36.97	16.43	53.40	68.20	-14.80	ick A Vupo,	Peak
5350.00	28.36	16.43	44.79	54.00 M	-9.21	hotek H An	AVG
5350.00	29.58	16.43	46.01	54.00	7.99	Y	AVG
2/2	WA.	pro-	740	V 1.1.		MV	The state of the s

Remark: 1. Result=Reading + Factor





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<u> </u>		TM1 / B	and: 5470-58	350 MHz / BV	V: 20 / L	• •	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	38.19	16.37	54.56	68.20	-13.64	"Ho _{te.}	Peak
5460.00	39.58	16.37	55.95	68.20	-12.25	v V botek	Peak
5470.00	39.12	16.70	55.82	68.20	-12.38	H	✓ Peak → Peak
5470.00	39.87	16.70	56.57 100°	68.20		oter Aupo	Peak
5460.00	28.78	16.37	45.15	54.00	-8.85	HOTEKH AT	AVG
5460.00	28.65	16.37	45.02	54.00	-8.98	V	AVG
5470.00	29.05	16.70	45.75	54.00	-8.25	Pup H ok	AVG
5470.00	30.16	16.70	46.86	54.00	-7.14° [×]	AND	AVG
		TM1 / B	and: 5470-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	39.14	17.21	56.35	68.20	-11.85	Lotek H An	Peak An
5850.00	39.51	17.21	56.72	68.20	-11.48	V	Peak
5850.00	29.12	17.21	46.33	54.00	-7.67	Pupor H	AVG
5850.00	29.13	17.21	46.34	54.00	-7.66	N. I. William	AVG

Remark: 1. Result=Reading + Factor

	30-	<u> </u>	-/r ~0,	D1.		101- 70h-	•
		TM2 / B	and: 5470-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	38.17	16.37	54.54	68.20	-13.66	Aupa H	Peak
5460.00	38.75	16.37	55.12	68.20	-13.08	Anlo	Peak
5470.00	38.28	16.70	54.98	68.20	-13.22	Hootek	Peak
5470.00	38.70	16.70	55.40	68.20	-12.80	V V	Peak
5460.00	27.17	16.37	43.54	54.00	-10.46	H	AVG NO
5460.00	27.60	16.37	43.97	54.00	-10.03	potek V Ano	AVG
5470.00	27.61	16.70	44.31	54.00	-9.69	, H's o	AVG
5470.00	28.14	16.70	44.84	54.00	-9.16	N.K	AVG
		TM2 / B	and: 5470-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.38	17.21	54.59	68.20	-13.61	Hanna	Peak
5850.00	37.99	17.21	55.20 mg	68.20	-13.00	otek V Anb	Peak
5850.00	27.65	17.21 And	44.86	54.00	-9.14	HYST	AVG
5850.00	28.48	17.21	45.69	54.00	-8.31	rups Ar	AVG

Remark: 1. Result=Reading + Factor





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	700	5.4		1/2.			
		TM2 / B	and: 5470-58	850 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	37.75	16.37	54.12	68.20	-14.08	H wek	Peak
5460.00	38.63	16.37	55.00	68.20	-13.20	N. Cop	Peak
5470.00	38.58	16.70	, o ^k 55.28 , o ^c	68.20	-12.92	otek H Anbo	Peak
5470.00	39.24	16.70	55.94	68.20	-12.26	Nek V	Peak An
5460.00	26.86	16.37	43.23	54.00	-10.77	H.	AVG
5460.00	28.73	16.37	45.10	54.00	-8.90	AnboV	AVG
5470.00	27.06	16.70	43.76	54.00	-10.24	WHO IS A	AVG
5470.00	28.41	16.70	45.11	54.00	-8.89	Votek	AVG
		TM2 / B	and: 5470-58	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.11	17.21	55.32 AT	68.20	-12.88	H	Peak
5850.00	38.48	17.21	55.69	68.20	-12.51	Viodna	Peak
5850.00	28.28	17.21	45.49	54.00	-8.51	"Aksk	AVG
5850.00	29.37	17.21	46.58	54.00	-7.42	Voick	AVG

Remark: 1. Result=Reading + Factor

		TM3 / B	and: 5470-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	37.39	16.37	53.76	68.20	-14.44	noH ^e	Peak
5460.00	37.53	16.37	53.90	68.20	-14.30	Vhotek	Peak
5470.00	37.97	16.70	54.67	68.20	-13.53	H	Peak
5470.00	38.33	16.70	55.03	68.20	-13.17	VANDO	Peak
5460.00	28.02	16.37	44.39	54.00	-9.61	notek H Anb	AVG
5460.00	28.66	16.37	45.03	54.00	-8.97	Ver	AVG
5470.00	28.30	16.70	45.00	54.00	-9.00	Aup H	AVG
5470.00	29.12	16.70	45.82	54.00	-8.18	Anb V	AVG
		TM3 / B	and: 5470-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.13	17.21	55.34	68.20	-12.86	otek H anbo	Peak
5850.00	39.01	o ^{tel} 17.21 Anh	56.22	68.20	-11.98	V.V	Peak M
5850.00	28.00	17.21	45.21	54.00	-8.79	rupour H	AVG
5850.00	29.08	17.21	46.29	54.00	-7.71	No V	AVG

Remark: 1. Result=Reading + Factor





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		TM3 / B	and: 5470-58	850 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	36.33	16.37	52.70	68.20	-15.50	"Hote.	Peak
5460.00	37.85	16.37	54.22	68.20	-13.98	k V spotek	Peak
5470.00	36.76	16.70	53.46	68.20	-14.74	H	Peak No
5470.00	38.19	16.70	54.89	68.20		oter A Vupe	Peak
5460.00	27.33	16.37	43.70	54.00	-10.30	botek H Ar	AVG
5460.00	27.46	16.37	43.83	54.00	-10.17	V	AVG
5470.00	27.58	16.70	44.28	54.00	-9.72	Pup H ok	AVG
5470.00	28.27	16.70	44.97	54.00	-9.03	PUD.	AVG
		TM3 / B	and: 5470-58	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.68	17.21 And	54.89	68.20	-13.31	otek H An	Peak A
5850.00	38.52	17.21	55.73	68.20	-12.47	V	Peak
5850.00	27.68	17.21	44.89	54.00	-9.11	Anbot H	AVG
5850.00	27.31	17.21	44.52	54.00	-9.48	V. J. A.	AVG

Remark: 1. Result=Reading + Factor

-K 20%	VILLE		ick "Up"		-V 50	VIII	
		TM4 / B	and: 5470-5	850 MHz / BV	N: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	38.19	16.37	54.56	68.20	-13.64	Hex	Peak
5460.00	38.78	16.37	55.15	68.20	-13.05	AnbV CK	Peak
5470.00	38.30	16.70	55.00	68.20	-13.20	Hoose	Peak
5470.00	38.73	16.70	55.43	68.20	-12.77	ek Vnbote	Peak
5460.00	27.18	16.37	43.55	54.00	-10.45	H H	otek AVG Anbo
5460.00	27.62	16.37	43.99	54.00	10.01	V Am	AVG
5470.00	27.62	16.70	44.32	54.00	-9.68	nbotek I	AVG
5470.00	28.16	16.70	44.86	54.00	-9.14	V	AVG
		TM4 / B	and: 5470-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.40	17.21	54.61	68.20	-13.59	H	Peak (ho
5850.00	38.01	17.21	55.22 Mb	68.20	-12.99	oter. A Vup	Peak
5850.00	27.68	17.21	44.89	54.00	-9.11	obote ^k H p	AVG
5850.00	28.50	17.21	45.71	54.00	-8.29	V	AVG

Remark: 1. Result=Reading + Factor





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40.	PI,		STOR A	Up	40.	"PO"	71.
		TM4 / B	and: 5470-58	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	37.77	16.37	54.14	68.20	-14.06	H well	Peak
5460.00	38.66	16.37	55.03	68.20	-13.17	Nu.	Peak
5470.00	38.60	16.70	55.30	68.20	-12.90	otek H Anb	Peak
5470.00	39.27	16.70 And	55.97	68.20	-12.23	work V	Peak
5460.00	26.88	16.37	43.25	54.00	-10.75	H	AVG
5460.00	28.74	16.37	45.11	54.00	-8.89	Aupo V	AVG
5470.00	27.08	16.70	43.78	54.00	-10.22	"Hotel	AVG
5470.00	28.42	16.70	45.12	54.00	-8.88	Votek	AVG
		TM4 / B	and: 5470-58	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.13	17.21	55.34	68.20	-12.86	H	Peak
5850.00	38.50	17.21	55.71	68.20	-12.49	Anboro	Peak
5850.00	28.30	17.21	45.51	54.00	-8.49	HIGH	AVG
5850.00	29.39	17.21	46.60	54.00	-7.41	Votek	AVG

Remark: 1. Result=Reading + Factor

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10. Band edge emissions (Conducted)

No.	NO. D. NO.
Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2)
hotek Anbo	
And hotek Anbot	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
	otek Anbole Anbole Ana tek abotek Anb
Test Limit:	For transmitters operating in the 5.25-5.35 GHz band: All emissions outside
	of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
	Anboter Anboter Anboter Anboter
abotek Anbu	Peak emission levels are measured by setting the instrument as follows:
	RBW = 1 MHz.
Tank Marke alter hote	VBW ≥ [3 × RBW]
Test Method:	Detector = peak.
	Sweep time = auto.
Yer Aug.	Trace mode = max hold.

10.1. EUT Operation

Anbotek	1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Test mode:	2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
	3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

10.2. Test Setup



10.3. Test Data

Temperature:	25 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.







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11. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	Ant abotek And	o. b
Anbotek Anbote	Unwanted emissions below strength limits set forth in §	w 1 GHz must comply with the ge § 15.209.	eneral field
	Except as provided elsewhintentional radiator shall no following table:	nere in this subpart, the emission ot exceed the field strength levels	s from an s specified in the
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 %
	0.490-1.705	24000/F(kHz)	30
All.	1.705-30.0	30 Anbott	30 botes
	30-88	100 **	3 rek
est Limit:	88-216	150 **	3 Anbo
	216-960	200 **	3 botel
	Above 960	1500 Market Market	3
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	e, the tighter limit applies at the k in the above table are based on peak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	measurements quency bands 9– ssion limits in
est Method:	ANSI C63.10-2020, sectio	n 12.7.4, 12.7.5	Vupotek Vu
Aupo	Below 1GHz:	tek abotek Anbe	"otek
	meters above the ground a was rotated 360 degrees t b. The EUT was set 3 or 1	JT was placed on the top of a rota at a 3 meter semi-anechoic cham o determine the position of the hi 0 meters away from the interfere ted on the top of a variable-heigh	ber. The table ghest radiation. nce-receiving
	c. The antenna height is va	aried from one meter to four mete	ers above the
		aximum value of the field strengt of the antenna are set to make the	
Procedure:	- AP		
	and then the antenna was	ission, the EUT was arranged to tuned to heights from 1 meter to	
	- 170	MHz, the antenna was tuned to he sturned from 0 degrees to 360 d	neights 1 meter)
	and the rotatable table was maximum reading.	s turned from 0 degrees to 360 d n was set to Peak Detect Functio	neights 1 meter) egrees to find the









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would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor







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- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

11.1. EUT Operation

Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

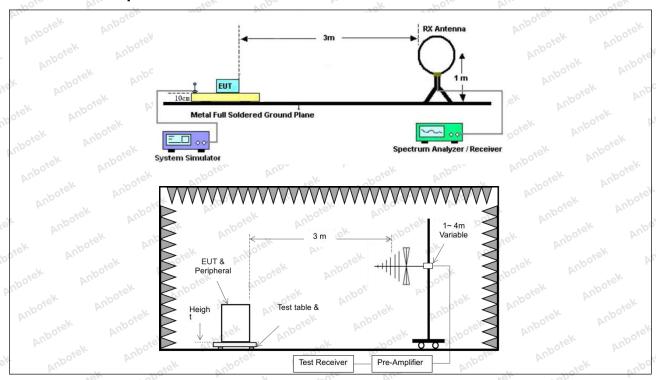
- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.





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11.2. Test Setup





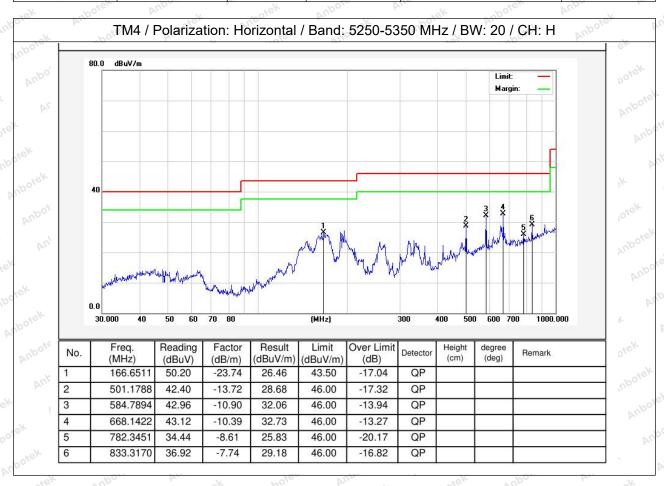


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11.3. Test Data

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

el.	Temperature:	25 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	-/0
	1 Pr.		100		100		V 11/2

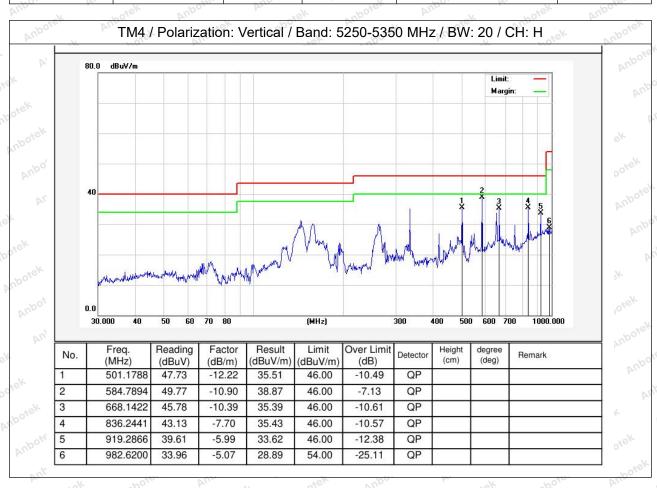






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Temperature: 25 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data 802.11ax(HEW20) in the report.









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12. Undesirable emission limits (above 1GHz)

- X	70°	740.	U.S.	~~	V-0 '
hotek Anbore.	47 CFR Part 15.407(b)(1)	Anbo.	hotek	Anbore	Ann
And tek abotek	47 CFR Part 15.407(b)(2)				Anbo.
Test Requirement:	47 CFR Part 15.407(b)(3)	botek			npoie
k abotek Anbo	47 CFR Part 15.407(b)(4)				ak h
k hotek Ant	47 CFR Part 15.407(b)(10)		-K 109	ek Anbor	S. AUG
740. 140	- 'V/ '''''		16.		

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Tootal	imit:	

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41	John Mupo	ingek a	100, VI

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.





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^{2}A	bove	38.	6

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300 000
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3ek Anbore
88-216	150 **	3
216-960	200 **	300 Anto
Above 960	500 hotek Anbo	3 30

^{**} 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 employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Method:

ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7

Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

Procedure:

- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.
 Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

12.1. EUT Operation

Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.



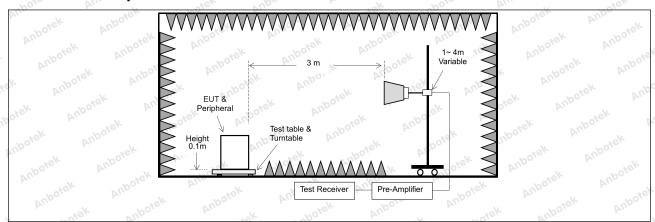






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12.2. Test Setup







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12.3. Test Data

	11 1111 1640 04 100	1 by	101000
Temperature: 25 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa

- No.	- POJ.	VI.	76/2	70p.	Yar	- h010	- bi
		TM4 / Ban	d: 5150-525	0 MHz / BW:	20 / CH: L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10360.00	31.45	23.81	55.26	68.20	-12.94	Velk	Peak
15540.00	32.77	28.68	61.45	68.20	-6.75	Nupo. A	Peak
10360.00	31.82	23.81	55.63	68.20	-12.57	Anbold	Peak
15540.00	32.86	28.68	61.54	68.20	-6.66	VI Holey	Peak
10360.00	20.819	23.81	44.63	54.00	-9.37	Vootek	AVG
15540.00	21.884	28.68	50.56	54.00	-3.44	V V	e ^k AVG _n b ^c
10360.00	21.007	23.81	44.82	54.00	otel -9.18 pm	H Ann	AVG
15540.00	21.554	28.68	50.23	54.00	-3.77	hotek H Ar	AVG
		TM4 / Ban	d: 5150-5250	MHz / BW:	20 / CH: M		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10400.00	30.81	23.81	54.62	68.20	-13.58	Kupoje	Peak
15600.00	32.30	29.13	61.43	68.20	-6.77	ek V nbot	Peak
10400.00	31.31	23.81	55.12	68.20	-13.08	H	Peak
15600.00	32.38	29.13	o ^{ne} 61.51 ^{An}	68.20	-6.69	H bu	Peak
10400.00	21.089	23.81	44.90	54.00	-9.10	Anborev	AVG
15600.00	22.004	29.13	51.13	54.00	-2.87	VUPA SE	AVG
10400.00	20.997	23.81	44.81	54.00	-9.19	Hotek	AVG
15600.00	21.634	29.13	50.76	54.00	-3.24	H	AVG o
		TM4 / Ban	d: 5150-525	MHz / BW:	20 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10480.00	30.38	23.80	54.18	68.20	-14.02	Aups A	Peak
15720.00	31.78	30.03	61.81	68.20	-6.39	Aup O	Peak
10480.00	30.95	23.80	54.75	68.20	-13.45	Hoores	Peak
15720.00	31.29	30.03	61.32	68.20	-6.88	ek Habote	Peak
10480.00	19.76	23.80	43.56	54.00	-10.44	V V	otek AVG Ant
15720.00°	20.76	30.03	50.79 And	54.00	-3.21 M	Over Ann	AVG
10480.00	20.21	23.80	44.01	54.00	-9.99	Anbotek H	AVG
15720.00	20.42	30.03	50.45	54.00	-3.55	obH ^N	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case 802.11ax(HEW20) is recorded in the report.

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ten Aupo		stek ant	ore An		botek An	b	riek
		TM4 / Ban	d: 5250-535	0 MHz / BW:		1	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10520.00	27.68	23.81	51.49	68.20	-16.71	AV O	Peak
15780.00	29.01	30.48	59.49	68.20	-8.71	K VAnbore	Peak
10520.00	28.62	23.81	52.43	68.20	-15.77	otek H anb	Peak
15780.00	27.73	30.48 M	58.21	68.20	-9.99 An	H	Peak
10520.00	17.566	23.81	41.38	54.00	-12.62	Nupo, A	AVG
15780.00	19.230	30.48	49.71	54.00	-4.29	Aupor	AVG
10520.00	18.982	23.81	42.79	54.00	-11.21	Hotek	AVG
15780.00	18.461	30.48	48.94	54.00	-5.06	H botek	AVG
		TM4 / Ban	d: 5250-5350	0 MHz / BW:	20 / CH: M		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10600.00	28.87	23.87	52.74	68.20	-15.46	Ŋ.	Peak
15900.00	28.06	31.38	59.44	68.20	-8.76	Anbo V CK	Peak
10600.00	27.92	23.87	51.79	68.20	-16.41	HAN	Peak
15900.00	28.15	31.38	59.53	68.20	-8.67	Hopotes	Peak
10600.00	18.236	23.87	42.11	54.00	-11.89	ek V nbot	AVG
15900.00	18.980	31.38	50.36	54.00	-3.64	V	AVG
10600.00	18.262	23.87	42.13	54.00	-11.87	hote H	AVG
15900.00	18.611	31.38	49.99	54.00	-4.01	anbotell	AVG
100		TM4 / Ban	d: 5250-535	0 MHz / BW:	20 / CH: H	, , ,	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10640.00	28.21	23.90	52.11	68.20	-16.09	Ack A Vupor	Peak
15960.00	27.56	31.83	59.39	68.20	-8.81	rek V nak	Peak M
10640.00	28.29	23.90	52.19	68.20	16.01	, H	Peak
15960.00	27.71	31.83	59.54	68.20	-8.66	Anbor H	Peak
10640.00	16.98	23.90	40.88	54.00	-13.12	Aup O.	AVG
15960.00	17.94	31.83	49.77	54.00	-4.23	Notek	AVG
10640.00	17.43	23.90	41.33	54.00	-12.67	ek H boje	AVG
15960.00	18.93	31.83	50.76	54.00	-3.24	H	AVG M

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case 802.11ax(HEW20) is recorded in the report.







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ter Aup		riek ant	ore And	100	hoten An	DO 14	atel.
			nd: 5470-572			ı	<u> </u>
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11000.00	26.99	24.15	51.14	68.20	-17.06	AP, O.	Peak
16500.00	29.10	33.05	62.15	68.20	-6.05	k Nupore	Peak
11000.00	28.78	24.15	52.93	68.20	-15.27	niek H anbo	Peak
16500.00	29.16	33.05 pm	62.21	68.20	-5.99 Ant	H	Peak
11000.00	16.671	24.15	40.82	54.00	-13.18	Npo, A	AVG
16500.00	18.014	33.05	51.06	54.00	-2.94	Aupolo.	AVG
11000.00	16.883	24.15	41.03	54.00	-12.97	Hotek	AVG
16500.00	16.759	33.05	49.81	54.00	-4.19	H botek	AVG
		TM2 / Ban	d: 5470-572	MHz / BW:	20 / CH: M		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11200.000	26.67	23.83	50.50	68.20	17.70	V	Peak
16800.000	27.27	32.16	59.43	68.20	-8.77	Anbo V.Sk	Peak
11200.000	27.71	23.83	51.54	68.20	-16.66	Anh	Peak
16800.000	27.77	32.16	59.93	68.20	-8.27	Hobotes	Peak
11200.000	16.921	23.83	40.75	54.00	-13.25	ek V nbot	AVG
16800.000	18.414	32.16 noo	50.57	54.00	-3.43 And	V	AVG
11200.000	17.383	23.83	41.21	54.00	-12.79	Poole H	AVG
16800.000	18.619	32.16	50.78	54.00	-3.22	Anborth	AVG
		TM2 / Ban	d: 5470-572	5 MHz / BW:	20 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11400.000	25.76	23.51	49.27	68.20	-18.93	Sk A Vupor	Peak
17100.000	27.16	31.73	58.89	68.20	-9.31	otek V anh	Peak
11400.000	26.61	23.51	50.12	68.20	-18.08 N	H	Peak
17100.000	27.77	31.73	59.50	68.20	-8.70	Pupo, H	Peak
11400.000	16.30	23.51	39.81	54.00	-14.19	Aup O.	AVG
17100.000	17.62	31.73	49.35	54.00	-4.65	Notek	AVG
11400.000	20.17	23.51	43.68	54.00	-10.32	H bote	AVG
17100.000	18.41	31.73	50.14	54.00	-3.86 nbc	Н	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case 802.11n(H20) is recorded in the report.









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ie. Vur		TM4 (Day	0. P.	0.8411 / 534/	Pose, Vui		- tek
Fraguanay	Dooding			0 MHz / BW:		Antonno	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11490.000	28.51	23.36	51.87	68.20	-16.33	AV,	Peak
17235.000	29.85	31.97	61.82	68.20	-6.38	k VAnbore	Peak
11490.000	28.95	23.36	52.31	68.20	-15.89	otek H anbo	Peak
17235.000	30.08	31.97 M	62.05	68.20	-6.15 And	Н	Peak
11490.000	17.80	23.36	41.16	54.00	-12.84	upo, A	AVG
17235.000	18.56	31.97	50.53	54.00	-3.47	Aupor	AVG
11490.000	17.98	23.36	41.34	54.00	-12.66	Hotek	AVG
17235.000	18.04	31.97	50.01	54.00	-3.99	H botek	AVG
		TM4 / Ban	d: 5725-5850	MHz / BW:	20 / CH: M		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11570.000	29.09	23.42	52.51	68.20	-15.69	Ŋ.	Peak
17355.000	29.73	32.18	61.91	68.20	-6.29	Aupon	Peak
11570.000	29.15	23.42	52.57	68.20	-15.63	AnH	Peak
17355.000	30.17	32.18	62.35	68.20	-5.85	Hopoter	Peak
11570.000	19.069	23.42	42.49	54.00	-11.51	ek V nbot	AVG
17355.000	18.876	32.18	51.06	54.00	-2.94	V	AVG
11570.000	18.973	23.42	42.39	54.00	-11.61 N	Pose H	AVG
17355.000	18.423	32.18	50.60	54.00	-3.40	Anborett H	AVG
LAU .		TM4 / Ban	d: 5725-585	0 MHz / BW:	20 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11650.000	28.60	23.49	52.09	68.20	-16.11	SK A VUDOL	Peak
17475.000	29.97	32.39	62.36	68.20	-5.84	otek V anh	Peak
11650.000	28.89	23.49	52.38	68.20	-15.82	H	Peak
17475.000	29.78	32.39	62.17	68.20	-6.03	Pupo, H	Peak
11650.000	18.14	23.49	41.63	54.00	-12.37	AUP Sign	AVG
17475.000	18.68	32.39	51.07	54.00	-2.93	Notek	AVG
11650.000	18.15	23.49	41.64	54.00	-12.36	H H nbote	AVG
17475.000	18.39	32.39	50.78	54.00	-3.22 ^{nb0}	, Н	AVG N

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case 802.11ax(HEW20) is recorded in the report.







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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

