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FCC Test Report

Magic Brands LLC Applicant

7845 Westside Dr. APT 408, San Diego, CA Address

92108

The Magic Link **Product Name**

: Mar. 30, 2024 Report Date









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TEST REPORT

Applicant : Magic Brands LLC

Manufacturer : Magic Brands LLC

Product Name : The Magic Link

Test Model No. : The Magic Link Apple CarPlay (MB-MAGIC-LINK)

Reference Model No. : The Magic Link Android Auto (MB-MAGIC-LINK-ANDROID)

Trade Mark : Magic Brands LLC

Rating(s) : Input: 5V--1A

47 CFR Part 15E

ANSI C63.10-2020

Test Standard(s) : KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 662911 D01 Multiple Transmitter Output v02r01

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

Date of Receipt:	Mar. 14, 2024
Date of Test:	Mar. 14, 2024 to Mar. 26, 2024
	Nian xiu Chen
Prepared By:	K Motek Anbore And
	(Nianxiu Chen)
Inbotek Anbotek Anbotek Anbotek Ant	Idward pan
Approved & Authorized Signer:	Aur. Wholek Tupo, W. Tek
	(Edward Pan)







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Revision History

	Report Version	Description	Issued Date		
İ	Anbore R00 borek mi	Original Issue.	Mar. 30, 2024		
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1. General Information

1.1. Client Information

Applicant	:	Magic Brands LLC
Address	:	7845 Westside Dr. APT 408, San Diego, CA 92108
Manufacturer	:	Magic Brands LLC
Address	:	7845 Westside Dr. APT 408, San Diego, CA 92108

1.2. Description of Device (EUT)

1.2. Description of		341Ce (EOI) And ak hotek Anbo, Ar dek anbote.
Product Name	:	The Magic Link
Test Model No.	:	The Magic Link Apple CarPlay (MB-MAGIC-LINK)
Reference Model No.	:	The Magic Link Android Auto (MB-MAGIC-LINK-ANDROID) (Note: All samples are the same except the model number, appearance color and software, so we prepare "The Magic Link Apple CarPlay (MB-MAGIC-LINK)" for test only.)
Trade Mark	:	Magic Brands LLC
Test Power Supply	:	DC 5V Andrew Anborek Anborek Anborek Anborek
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anborek Anborek Anborek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20): 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): 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; 802.11ac(VHT80): U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2A: 5290MHz; U-NII Band 3: 5775MHz
Number of Channel	:	802.11a/n(HT20)/ac(HT20): 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):







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		U-NII Band 1: 2;
		U-NII Band 2A: 2;
		U-NII Band 2C: 5;
		U-NII Band 3: 2;
		botek Aupon H. Stek Vupoter Aug Sk Botek
		802.11ac(HT80):
		U-NII Band 1: 1;
		U-NII Band 2A: 1;
		U-NII Band 2C: 2;
		U-NII Band 3: 1
		802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM);
Modulation Type	:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);
		802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Antenna Type	:	FPC Antenna
		WiFi 5.2G ANT1: 2.48dBi
		WiFi 5.2G ANT2: 2.48dBi
		WiFi 5.3G ANT1: 2.75dBi
Antonno Coin(Book)		WiFi 5.3G ANT2: 2.75dBi
Antenna Gain(Peak)	•	WiFi 5.6G ANT1: 4.85dBi
		WiFi 5.6G ANT2: 4.85dBi
		WiFi 5.8G ANT1: 4.39dBi
		WiFi 5.8G ANT2: 4.39dBi
(WiFi 5.2G: 5.49dBi
Directional antenna		WiFi 5.2G. 5.49dBi WiFi 5.3G: 5.76dBi
gain		WiFi 5.6G: 7.86dBi
		WiFi 5.8G: 7.40dBi
F = D// .		*6. 'VA , A (*0. D), B,,

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Only 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) support MIMO.

1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.
Hyundai Mobis		HYUNDAI MOBIS CO.,Ltd	APB12F0CG	hotek Andotek
ROG Rapture Quad- band Gaming Router		ASUSTeK Computer Inc	GT-AXE16000 (FCC-ID: MSQ-RTAX5D00; IC: 3568A-RTAX5D00)	Anbotek/ Anbote





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1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel Channel	Frequency (MHz)	Channel	Frequency (MHz)
tek 36 botek	5180	Anbotek 38 Anbot	5190	42	5210
botek 40 Anbotek	5200	10 46 An	5230	Sk Wpolek	Vupp Viek
botel44 Anbo	5220	an Brek	Anbore An	botek / Anbotek	And
48	5240	ek Inbotek	Vupor V	abotek / Anbote	Augusta

Operation Band: U-NII Band 2A

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	tek 58 mbote	5290
56	5280	62	5310	and and	otek \Aupot
60	5300	or I hote	K Woole	Aug	hotek / Anbore
64	5320	Auport Am	otek \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	And	Anbotek/ Anb

Operation Band: U-NII Band 2C

oporation bana.	o itii bana 20				
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel Mark	Frequency (MHz)
100	5500	102	5510	106	700 5530 And
104 noon	5520	Anbor 110	5550 Anbore	122	5610
nbotek 108 Anbo	5540	118	5590	yek Aupo	Borek
Anbot 112	5560	126	5630	hotek / Anbo	ek Inbotek
116	5580	134	5670	Anbotek / Anbo	otek / Anbotek
120	5600	upotek / Aupore	ek spotek	Anboten An	orek / Anbo
124	5620	Anbotek / Anbo	ek aborek	AUDIE	And work
Jootek 128 Anbotes	5640	Anbotok Ar	bot all his	ick Yupoles	And
132	5660	Andorek	Aupo.	potek / Anbores	K NOTEK
136	5680	tek Anbotek	Anbo Liek	upotek / Aubor	Aug Hotek
140	5700	botek / Anbotek	Aupo	Anboret An	DOLD Y VILLE
T V	772		70.	T to the second	







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Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	botek 151 Anboten	5755	155 An	5775
153	5765	159 knbo	5795	Aup\tek	Aupo ofely
botek 157 Anbotek	5785	anbotek Ar	port / All	sk Whotek	Anbo
bote 161 Anb	5805	anbbrek.	Anbor	ootek / Anboten	Anb/otek
165	5825	ek Inpotek	Vupo, 1	botek / Anbote	Androk

1.5. Description of Test Modes

Pretest Modes	Descriptions
nbotek Anbote Anbotel Anbotek TM1ek Anbotel	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 Anbotek	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.
Anbotek 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.
Anborek TM4	Keep the EUT works in normal operating mode and connect to companion device

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Anborek Anborek Anborek
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Occupied Bandwidth	925Hz botek Anbotek Anbotek
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Anborek Anborek
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	All Auborek	Ñ
Duty Cycle	Mode1,2,3	PAnb
Maximum conducted output power	Mode1,2,3	P
Power spectral density	Mode1,2,3	inposes 6
Emission bandwidth and occupied bandwidth	Mode1,2,3	Anbore P
Channel Move Time, Channel Closing Transmission Time	Mode4	AP COL
DFS Detection Thresholds	Mode4	P _{yUpo}
Band edge emissions (Radiated)	Mode1,2,3	PAT
Undesirable emission limits (below 1GHz)	Mode1,2,3	upore P
Undesirable emission limits (above 1GHz)	Mode1,2,3	Aupole A
Note: P: Pass N: N/A, not applicable	Aupotek Aupotek	Anbore.

ak Anboraphicasia

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.





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1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 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.
- 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				
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
žek 2	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	Anborek

Duty Cycle

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

Channel Move Time, Channel Closing Transmission Time

DFS Detection Thresholds

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	oo ^{tek} N/A	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
An3ote	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4 .nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



Hotline N



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	edge emissions (Ra sirable emission limi		Aupote _k	Anborek	Vupo _{tek}	Anboatek
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
nbore 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Aupolek
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
¹⁶ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Unde	sirable emission limit	ts (below 1GHz)	Anbore.	Aug Potek	Anboiek	Anbo
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
34	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	N/A No	k Vupo,	Anbotek



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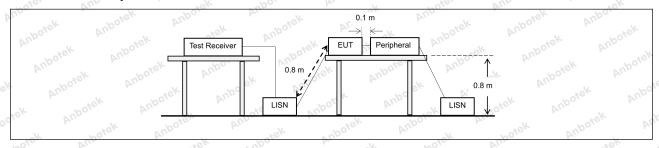
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ek hotek Ant	Jose Aug Otek
Yun Volek	Frequency of emission (MHz)	Conducted limit (dBµV) bojek Anbo
	And Andrew And	Quasi-peak	Average
K- botek Anbo	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 And	56	46 20010
	5-30 And And	60 Potek Wupo,	50
otek Anbotek	*Decreases with the logarithm of the	ne frequency.	V. Vipo
Test Method:	ANSI C63.10-2020 section 6.2	Aug.	otek Anbote

2.1. EUT Operation

Operating E	nviro	nment:	Aug. Siek	upotek	Aupor	hoiek .	Anbores	AUP
Test mode:	rek 1	Anbotek	Aupo * ek	, abotek	Auport	Arrangiek	Anbotek	Vup.

2.2. Test Setup



2.3. Test Data

Not applicable for equipment operated with DC power supply.



Hotline



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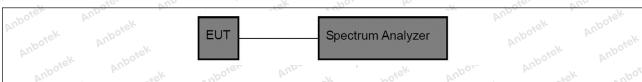
3. Duty Cycle

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)
Anborek Anborek Procedure:	 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. iii) Set VBW >= RBW.
otek Anbotek Anb	iv) Set detector = peak. 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 Envi	ronment: Anbore Andrew Anbore Anborek Anborek
	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 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.

3.2. Test Setup



3.3. Test Data

Temperature: 25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa	
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Please Refer to Appendix for Details.







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4. Maximum conducted output power

abo ak	Post Ali
Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
tek Anbotek Anbote	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 provided the maximum antenna gain does not exceed 6 dBi. 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. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted 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.
potek Test Limit: Anbotek	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.
Anbotek	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 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-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting
Anbotek Anbotek Anbotek Anbo	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 C63.10-2013, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4





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4.1. EUT Operation

Operating Environment:

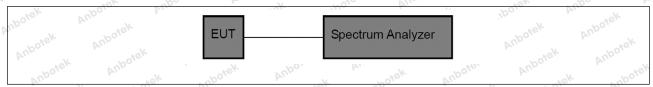
1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

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 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.

4.2. Test Setup



4.3. Test Data

Please Refer to Appendix for Details.



Hotline

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400-003-0500



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5. Power spectral density

10° K	work All the stell appear to ak hore
Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
ek Anbotek Anbotek botek Anbotek Anbotek	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. 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.
Anbotek Anbotek Anbotek Anbote	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
Otek Anbotek Anbotek Anbotek	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

5.1. EUT Operation

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. 2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously
Test mode:	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 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.

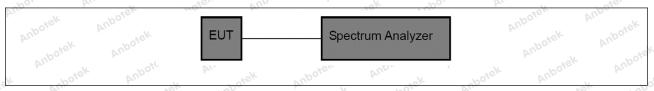






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5.2. Test Setup



5.3. Test Data

10	T	25.3 °C	11	40.00	Atan and and Daniel	404 LD-
	Temperature:	25.3 0	Humidity:	49 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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6. Emission bandwidth and occupied bandwidth

- abotek Anbote	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	Anbo Anbore Anbore Anborek Anbo
Anbore Arr	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Anbotek Anbo	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands,
Ar. botek	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
Aupor Air	700, b. K. 200, Pup. Sk. 700,
	Emission bandwidth:
	a) Set RBW = approximately 1% of the emission bandwidth.
	b) Set the VBW > RBW.
	c) Detector = peak.
	d) Trace mode = max hold.
	e) Measure the maximum width of the emission that is 26 dB down from the
	peak of the emission.
	Compare this with the RBW setting of the instrument. Readjust RBW and
	repeat measurement
	as needed until the RBW/EBW ratio is approximately 1%.
colek Anbore	An Andrew Andrew Andrew Andrew Andrew Andrew
	Occupied 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 approximately three times the RBW, unless otherwise
Procedure:	specified by the
	applicable requirement.
Anbo	c) Set the reference level of the instrument as required, keeping the signal
tek abover A	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 4.1.5.2.
	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
notek hotek	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









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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.

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 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.

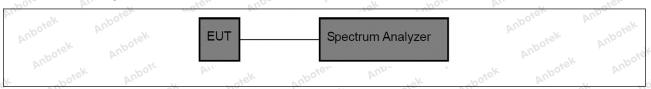






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6.2. Test Setup



6.3. Test Data

Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
. 2/0.12 2 : 2:12:12.12.1	_0.0		10 1/10	, m	10.111

Please Refer to Appendix for Details.





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7. Channel Move Time, Channel Closing Transmission Time

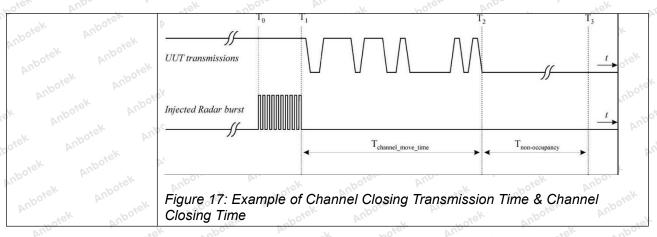
Test Requirement:	47 CFR Part 15.407(h)(2)(iii)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Channel Move Time: within 10 seconds Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.)
Test Method:	KDB 905462 D02, Clause 7.8.3
Test Method: Anborek KDB 905462 D02, Clause 7.8.3 The steps below define the procedure to determine the above-mentioned parameters when a radar <i>Burst</i> with a level equal to the <i>DFS Detection Threshold</i> + 1dB is generated on the <i>Operating Channel</i> of the U-NII device (<i>In- Service Monitoring</i>). 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 disabling channel loading and monitoring the spectrum analyzer. If no control 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> . In case the UUT (Client device) to <i>Associate</i> with the <i>Master Device</i> . 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 directed towards the <i>Master Device</i> . If the <i>Master Device</i> has antenna gain, the main beam of the antenna will be 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 Device</i> on the test <i>Channel</i> 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 Channel</i> . An additional 1 dB is added to the radar test signal to ensure it is at or above the <i>DFS Detection Threshold</i> , accounting for equipment variations/errors. 5. Observe the transmissions of the UUT at the end of the radar Burst on the <i>Operating Channel</i> 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.
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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 <i>Client Device</i> with <i>In-Service Monitoring</i> , perform steps 1 to 6.







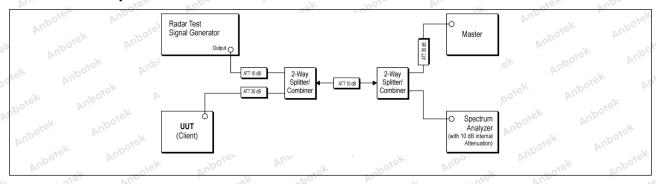
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7.1. EUT Operation

Operating Envir	onment:	, bojek	Anboten	And	rek.	anbotek		er Bi.
lest mode.	4: Normal Opera	_,,,,	the EUT wo	rks in no	ormal ope	erating mod	de and cor	nect to
abore mode And	companion devic	e Mpo,	by.	Yas	"pole.	AUL		-otek

7.2. Test Setup



7.3. Test Data

Temperature: 25.3 °C Humidity: 49 % Atmospheric Pressure: 101 kPa

Please Refer to Appendix for Details.



Hotline



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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 I with Radar Detection Table 3: DFS Detection Thresholds for Ma and Client Devices with Radar De	ster Devices
ek Anbotek An	Maximum Transmit Power EIRP ≥ 200 milliwatt	Value (See Notes 1, 2, and 3) -64 dBm
est Limit:	EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz EIRP < 200 milliwatt that do not meet the power spectral density	-62 dBm
	requirement 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.	een added to the amplitude of the ent equipment. This will ensure that a DFS response.
est Method:	KDB 905462 D02, Clause 7.4.1.1	Anbo tek nbotek
	1) A 50 ohm load is connected in place of the spectrum analyzer is connected to place of the 2) The interference Radar Detection Threshold had been taken into account the output power r 3) The following equipment setup was used to contain the contains the setup was used to contain the contains the contains the setup was used to contain the contains the	master Level is TH+ 0dBi +1dB that ange and antenna gain. calibrate the conducted rada
Procedure:	waveform. A vector signal generator was utilized 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	e were no transmissions by n analyzer was switched to of the radar waveform
	generator. Peak detection was used. The spect bandwidth (RBW) and video bandwidth (VBW) spectrum analyzer had offset -1.0dB to compen 4) The vector signal generator amplitude was so	were set to 3 MHz. The sate RF cable loss 1.0dB.
	measured at the spectrum analyzer was TH + 0 the spectrum analyzer plots on short pulse rada Note: TH=-64 dBm or -62 dBm	dBi +1dB = -63dBm. Captur

8.1. EUT Operation

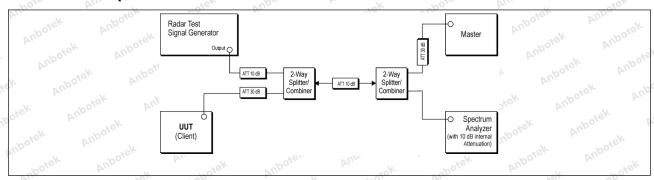
Operating Envi	ronment:					And
Test mode:	4: Normal Operating	: Keep the EUT	works in norm	al operating	g mode and	connect to
rest mode.	companion device	Aup. K	hotek	Vupo,	b.,	sk above





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8.2. Test Setup



8.3. Test Data

e)	Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
		_0.0	Co.c	10 70	100mm	13.64 2

Please Refer to Appendix for Details.





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9. Band edge emissions (Radiated)

	- AP	~0. P.	750.	~ OV	No.	~0.
	Anbore.	47 CFR Part 15.407(b)(1)	Anbo.	r. Ciek	Anbois	AUR
		47 CFR Part 15.407(b)(2)	abojen			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)				hote
	r. Stek Anboth	47 CFR Part 15.407(b)(4)				Vur
46	Aupo K	47 CFR Part 15.407(b)(10)	ek abote	Vupo,	-k hote	K Anb

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 increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Limit:

MHz M	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	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) 10 tek
13.36-13.41	Vupo, Vi	de de	View Vup

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

²Above 38.6





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otek Anbore A		ok botek Ar	upor A. Stek
abotek Alex	The field strength of emiss	sions appearing within thes	se frequency bands shall
Anbore All.	not exceed the limits show	vn in § 15.209. At frequenc	ies equal to or less than
	1000 MHz, compliance wi	th the limits in § 15.209sha	all be demonstrated
	using measurement instru	mentation employing a CIS	SPR quasi-peak
	detector. Above 1000 MHz	z, compliance with the emis	ssion limits in §
A. Stek Anbo	15.209shall be demonstra	ted based on the average	value of the measured
	emissions. The provisions	in § 15.35apply to these n	neasurements.
	" " ciek Ant		botek Anb
		here in this subpart, the en	
hotek Anbo		ot exceed the field strength	n levels specified in the
	following table:		shorek Anbo
	Frequency (MHz)	Field strength	Measurement
botek Anbote	Al abover	(microvolts/meter)	distance
And	ek Anbor Arr	k Spoten And	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30 months
	1.705-30.0	30	30
	30-88	100 **	aboter 3 Ambo
	88-216	150 **	Pos 3 Opolok
	216-960	200 **	Anbo 3
	Above 960	500	3 Anbort
		aragraph (g), fundamental	No.
		iting under this section sha	
		Hz, 76-88 MHz, 174-216 M	
		these frequency bands is	
	sections of this part, e.g.,		permitted under other
		ve, the tighter limit applies a	at the hand edges
		in the above table are bas	
	-20.	-peak detector except for t	- XO
		above 1000 MHz. Radiate	
		sed on measurements emp	
	detector.	V solek Anbor	All All Sol
Test Method:	ANSI C63.10-2020, section	on 12 7 4 12 7 6 12 7 7	otek Pupo, Y
Tool Manous	MOTO AM	hotek Arbos, Z. Arr	atek anboten An
	Above 1GHz:	117 ok 1 1/20 ^t ek	-6 - u-t-tiu u t-bl- 4 5
		UT was placed on the top	
		at a 3 meter fully-anechoic	
		termine the position of the	
		ters away from the interference	
		e top of a variable-height a	
		aried from one meter to for	
		naximum value of the field	
Procedure:		of the antenna are set to m	
		ission, the EUT was arrang	
		tuned to heights from 1 m	
in wotek		MHz, the antenna was tur	
	6/1/2	s turned from 0 degrees to	300 degrees to find the
	maximum reading.	m was set to Book Detact	Function and Specified
	Bandwidth with Maximum	m was set to Peak Detect F	-unclion and Specified
. aboiek Anbo			10dR lower than the
		he EUT in peak mode was	
tek por Ar	I IIIIII speciliea, then testing	g could be stopped and the	peak values of the EUT









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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.

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 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.



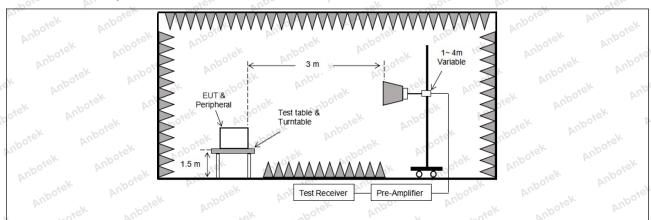






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9.2. Test Setup







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9.3. Test Data

Temperature: 25.3 °C	Humidity: 49 %	Atmospheric Pressure:	101 kPa
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		TM1 / 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	36.53	15.99	52.52	68.20	-15.68	Lotek H	Peak
5150.00	38.53	15.99	54.52	68.20	-13.68	V.	Peak
5150.00	26.59	15.99	42.58	54.00	-11.42	Anto Hick	AVG
5150.00	28.52	15.99	44.51	54.00	-9.49	Vub.	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	37.10	16.43	53.53	68.20	-14.67	H	Peak
5350.00	39.77	16.43	56.20	68.20	-12.00	Anbo Viek	Peak
5350.00	28.27	16.43	44.70	54.00	-9.30	Anh ak	AVG
5350.00	29.32	16.43	45.75	54.00	-8.25	Wholes	AVG

Remark: 1. Result=Reading + Factor

^{2.} During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.

- //-	70. N			102	- No	P0.	<u> </u>
		TM2 / B	and: 5150-53	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	35.64	15.99	51.63	68.20	-16.57	ek H _{anbote}	Peak
5150.00	36.91	15.99	52.90	68.20 nbo	-15.30	otek V and	Peak Prib
5150.00	26.36	15.99 An	42.35	54.00	-11.65 An	H	AVG
5150.00	27.39	15.99	43.38	54.00	-10.62	Augo Aek	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	37.38	16.43	53.81	68.20	-14.39	over H mo	Peak
5350.00	38.50	16.43 M	54.93	68.20	-13.27 And	V	Peak
5350.00	27.37	16.43	43.80	54.00	-10.20	Anbore H	AVG
5350.00	28.71	16.43	45.14	54.00	-8.86	Nup of	AVG

Remark: 1. Result=Reading + Factor





^{2.} During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.



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		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	35.99	15.99	51.98	68.20	-16.22	K Hupoten	Peak
5150.00	37.87	15.99	53.86	68.20	-14.34	otek V anbo	Peak
5150.00	26.52	15.99	42.51	54.00	-11.49	H*st	AVG M
5150.00	28.54	15.99	44.53	54.00	-9.47	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	37.75	16.43	54.18	68.20	-14.02	tek H Anbot	Peak
5350.00	36.74	16.43	53.17	68.20	-15.03	ok ∧	Peak M
5350.00	27.77	16.43	44.20	54.00	-9.80	H H	AVG
5350.00	28.89	16.43	45.32	54.00	-8.68	Vrodna	AVG

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.

ak ho,	100		ter vup	1	- NO.	. Dr	4.4
		TM3 / B	and: 5150-53	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	36.41	15.99	52.40	68.20	-15.80	ANDHER	Peak
5150.00	38.08	15.99	54.07	68.20	-14.13	Modek	Peak
5150.00	26.27	15.99	42.26	54.00	-11.74	sk Hanbote	AVG
5150.00	28.30	15.99	44.29	54.00 _{km}	-9.71	niek V nib	AVG Mark
		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	37.59	16.43	54.02	68.20	-14.18	Hoten	Peak
5350.00	37.88	16.43	54.31	68.20	-13.89	k V botel	Peak
5350.00	27.42	16.43	43.85	54.00	-10.15	H	Rel AVG
5350.00	27.83	16.43	44.26	54.00	9.74	Oren V Ame	AVG

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.





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0. h.	**	740. VUI	· · · · · · · · · · · · · · · · · · ·		Po. k.		7,10.
		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	35.40	15.99	51.39	68.20	-16.81	PH	Peak
5150.00	36.00	15.99	51.99	68.20	-16.21	Nupo,	Peak
5150.00	25.38	15.99	41.37	54.00	-12.63	otek H Anbo	AVG
5150.00	26.32	15.99	42.31	54.00	-11.69	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	37.62	16.43	54.05	68.20	-14.15	Hup	Peak
5350.00	36.89	16.43	53.32	68.20	-14.88	tek A Vupo	Peak
5350.00	27.20	16.43	43.63	54.00	-10.37	hotek H An	AVG
5350.00	26.82	16.43	43.25	54.00	-10.75	V	AVG

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.

Poje.	VU.	18K	² Upo	P	k hoje.	Ville	
		TM3 / B	and: 5150-5	350 MHz / BV	V: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.73	15.99	51.72	68.20	-16.48	Anborek	Peak
5150.00	35.82	15.99	51.81	68.20	-16.39	anb Vek	Peak
5150.00	25.92	15.99	41.91	54.00	-12.09	Horek	AVG
5150.00	26.38	15.99	42.37	54.00	-11.63	ek Vabore	AVG
		TM3 / B	and: 5150-53	350 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.68	16.43	54.11	68.20	-14.09	nb# ^k	Peak
5350.00	36.95	16.43	53.38	68.20	-14.82	Votek	Peak
5350.00	28.05	16.43	44.48	54.00	-9.52	H Lotel	AVG
5350.00	27.65	16.43	44.08	54.00	-9.92	Vans	AVG NO

Remark: 1. Result=Reading + Factor



^{2.} During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.



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<u> </u>	A A	~40°			PA		7/0
		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	37.80	16.37	54.17	68.20	-14.03	"Hote.	Peak
5460.00	39.05	16.37	55.42	68.20	-12.78	k V botek	Peak
5470.00	38.73	16.70	55.43	68.20	-12.77	H	Peak po
5470.00	39.34	16.70	56.04	68.20	-12.16 N	OLEN AUPO	Peak
5460.00	28.49	16.37	44.86	54.00	-9.14	botek H Ar	AVG
5460.00	28.33	16.37	44.70	54.00	-9.30	V	AVG
5470.00	28.76	16.70	45.46	54.00	-8.54	Aup H ok	AVG
5470.00	29.84	16.70	46.54	54.00	-7.46	PU. AUA	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	38.68	17.21	55.89	68.20	-12.31	Lotek H An	Peak An
5850.00	38.98	17.21	56.19	68.20	-12.01	V	Peak
5850.00	28.73	17.21	45.94	54.00	-8.06	AuporH ″	AVG
5850.00	28.81	17.21	46.02	54.00	-7.98	N. W.	AVG

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.

TM2 / Band: 5470-5850 MHz / BW: 20 / L									
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector		
5460.00	37.74	16.37	54.11	68.20	-14.09	Am H wek	Peak		
5460.00	38.22	16.37	54.59	68.20	-13.61	Moo	Peak		
5470.00	37.85	16.70	54.55	68.20	-13.65	ek Hanbore	Peak		
5470.00	38.17	16.70	54.87	68.20	-13.33	on V year	Peak Pool		
5460.00	26.96	16.37	43.33	54.00	-10.67	Н	AVG		
5460.00	27.28	16.37	43.65	54.00	-10.35	Vupoje A	AVG		
5470.00	27.40	16.70	44.10	54.00	-9.90	bH ^{≥k}	AVG		
5470.00	27.82	16.70	44.52	54.00	-9.48	Votek	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	36.92	17.21	54.13 ¹⁰⁰	68.20	14.07	H	Peak		
5850.00	37.63	17.21	54.84	68.20	-13.36	Inpotek P	Peak		
5850.00	27.09	17.21	44.30	54.00	-9.70	" HK	AVG		
5850.00	28.05	17.21	45.26	54.00	-8.74	Am Viek	AVG		

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.









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	-100 h	0.4		(1,0)	10		
		TM2 / 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	37.32	16.37	53.69	68.20	-14.51	H New	Peak
5460.00	38.10	16.37	54.47	68.20	-13.73	$\Lambda_{\omega_{0}}$	Peak
5470.00	38.15	16.70	54.85	68.20	-13.35	otek H Anbo	Peak
5470.00	38.71	16.70	55.41	68.20	-12.79	V _{Aster} V	Peak
5460.00	26.54	16.37	42.91	54.00	-11.09	H.	AVG
5460.00	28.52	16.37	44.89	54.00	-9.11	Anbov	AVG
5470.00	26.74	16.70	43.44	54.00	-10.56	"Hayer	AVG
5470.00	28.20	16.70	44.90	54.00	-9.10	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	37.68	17.21	54.89	68.20	-13.31	H	Peak
5850.00	38.16	17.21	55.37	68.20	-12.83	Aupord	Peak
5850.00	27.82	17.21	45.03	54.00	-8.97	Hrek	AVG
5850.00	29.01	17.21	46.22	54.00	-7.78	Votek	AVG

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.

		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	37.03	16.37	53.40	68.20	-14.80	Hotek	Peak
5460.00	37.36	16.37	53.73	68.20	-14.47	V	Peak
5470.00	37.61	16.70	54.31	68.20	-13.89	HANDO.	Peak
5470.00	38.16	16.70	54.86	68.20	-13.34	otek V Anb	Peak
5460.00	27.78	16.37	44.15	54.00	-9.85	H	AVG
5460.00	28.23	16.37	44.60	54.00	-9.40	Aupo A	AVG
5470.00	28.06	16.70	44.76	54.00	-9.24	Anb H	AVG
5470.00	28.69	16.70	45.39	54.00	-8.61	Votek	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	37.77	ote ³ 17.21 ⊾n ^b	54.98	68.20	-13.22	Н	Peak M
5850.00	38.72	17.21	55.93	68.20	-12.27	inpose A	Peak
5850.00	27.71	17.21	44.92	54.00	-9.08	No H	AVG
5850.00	28.65	17.21	45.86	54.00	-8.14	Votek	AVG

Remark: 1. Result=Reading + Factor

^{2.} During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.









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0. hv.	A A	~40°			PA		7/0
		TM3 / 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	36.01	16.37	52.38	68.20	-15.82	"Hote.	Peak
5460.00	37.64	16.37	54.01	68.20	-14.19	k V bojek	Peak
5470.00	36.44	16.70	53.14	68.20	-15.06	H	Peak po
5470.00	37.98	16.70	54.68	68.20	-13.52	oter A Vupo	Peak
5460.00	27.09	16.37	43.46	54.00	-10.54	hotek H Ar	AVG
5460.00	27.25	16.37	43.62	54.00	-10.38	V	AVG
5470.00	27.34	16.70	44.04	54.00	-9.96	Pup H ok	AVG
5470.00	28.06	16.70	44.76	54.00	-9.24	AUD TO	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	37.39	17.21	54.60	68.20	-13.60	Lotek H An	Peak An
5850.00	38.09	17.21	55.30	68.20	-12.90	V	Peak
5850.00	27.36	17.21	44.57	54.00	-9.43	Anbor H	AVG
5850.00	26.88	17.21	44.09	54.00	-9.91	N. I. Vice	AVG

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.

,	- V	TM3 / B	and: 5470-58	350 MHz / BV	V: 80 / L	· · · · · · · · · · · · · · · · · · ·	- U , D , , ,
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	35.32	16.37	51.69	68.20	-16.51	An/PA	Peak
5460.00	36.75	16.37	53.12	68.20	-15.08	Votek	Peak
5470.00	35.68	16.70	52.38	68.20	-15.82	H mote	Peak
5470.00	37.70	16.70	54.40	68.20	-13.80	VAND	Peak
5460.00	25.42	16.37	341.79 M	54.00	-12.21	potek H Anb	AVG
5460.00	26.70	16.37	43.07	54.00	-10.93	VoteV	AVG AVG
5470.00	26.17	16.70	42.87	54.00	-11.13	AND HA	AVG
5470.00	26.91	16.70	43.61	54.00	-10.39	Aup C	AVG
		TM3 / B	and: 5470-58	350 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.08	17.21	54.29	68.20	-13.91	otek H Anbe	Peak
5850.00	37.51	o ^{t©} 17.21 ₽ ^{n©}	54.72	68.20	-13.48	, ekV	Peak
5850.00	27.31	17.21	44.52	54.00	-9.48	Pupp H	AVG
5850.00	27.92	17.21	45.13	54.00	-8.87	Anboy	AVG

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.







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10. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	And boyek	Aupor Vie
Anbotek Anbotes	Unwanted emissions below strength limits set forth in	w 1 GHz must comply with th § 15.209.	ne general field
ek Aupotek V		nere in this subpart, the emis ot exceed the field strength le	
ootek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
	0.000.0.400	2400/5/647)	(meters) 300
And ak abo	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
	1.705-30.0	30	30
	30-88	100 **	30
Гest Limit:	88-216	150 **	stek 3 subotek
otek Anbore.	216-960	200 **	3 And
	Above 960	500	bole 3 Anbore
	16,2	aragraph (g), fundamental er	by Co.
	90 kHz, 110–490 kHz and	-peak detector except for the above 1000 MHz. Radiated ed on measurements employ	emission limits in
Test Method:	ANSI C63.10-2020, sectio	n 12.7.4, 12.7.5	Aug. sek
procedure: Anborek meters above the ground a was rotated 360 degrees to b. The EUT was set 3 or 1 antenna, which was mound c. The antenna height is was ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum		chamber. The table the highest radiation. If the ference-receiving the light antenna tower, meters above the tength. Both horizontate the measurement. If to its worst case for the light at the heights 1 meter) to degrees to find the light and Specified the light and Specified	
	f. If the emission level of the limit specified, then testing	ne EUT in peak mode was 10	dB lower than the









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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
- 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









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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.

10.1. EUT Operation

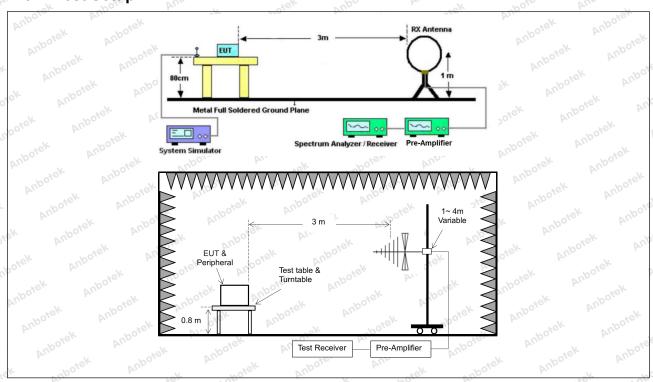
Operating Environment:

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.

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 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









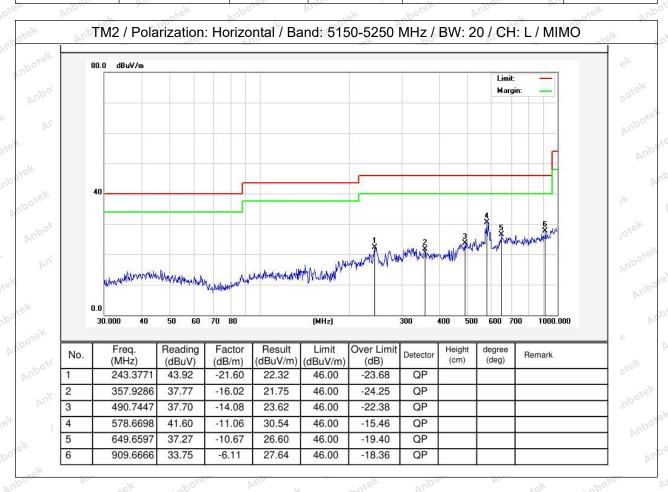


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10.3. Test Data

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

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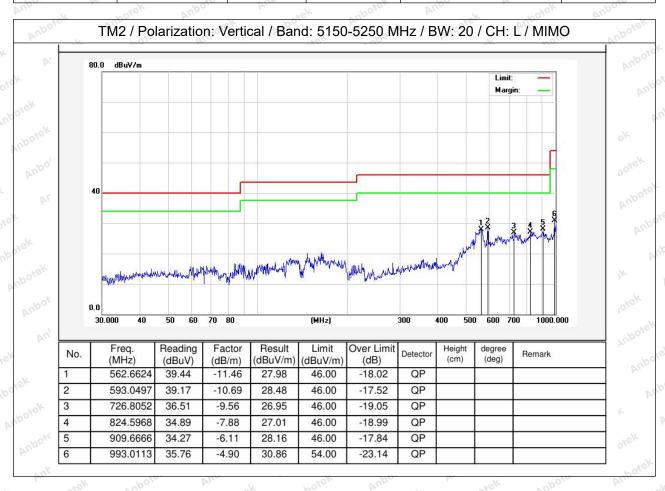






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Temperature:	23.5 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
. 5 1100 5 1 5 1 5 1 5 1				, m	



Note:Only record the worst data in the report.







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11. Undesirable emission limits (above 1GHz)

	woick Aupore.	47 CFR Part 15.407(b)(1)	Aupo.	hotek.	Anbore P	"Un
	And	47 CFR Part 15.407(b)(2)	aboien			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)		aboter		~ote
	Ar. stek anbort	47 CFR Part 15.407(b)(4)				And
16	K Aupo, K	47 CFR Part 15.407(b)(10)	ek abote	K Aupo.	-k hotel	AUD
	16, 14,			_ lx	8, 70	-

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 increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Limit:

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) Stek
13.36-13.41	Vupo, Vi	de Asi	ye. Vup

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



²Above 38.6



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otek Anbore A		or k botek A	upo, Ve.
ak abotek	The field strength of emiss	sions appearing within thes	se frequency bands shall
Anbore Arr	not exceed the limits show	n in § 15.209. At frequenc	cies equal to or less than
	1000 MHz, compliance with	th the limits in § 15.209sha	all be demonstrated
	using measurement instru	mentation employing a CIS	SPR quasi-peak
	detector. Above 1000 MHz	z, compliance with the emi	ssion limits in §
A. Otek Anboi	15.209shall be demonstra	ted based on the average	value of the measured
	emissions. The provisions	in § 15.35apply to these n	neasurements.
	k cotek Ant		abotek Anbe
	Except as provided elsewh		
hotek Anbo.	intentional radiator shall no	ot exceed the field strength	n levels specified in the
	following table:	Anbore And	potek Aupo
	Frequency (MHz)	Field strength	Measurement
kotek Anbore	All abover	(microvolts/meter)	distance
And	ek Anbore Arr	k aboten And	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30 do 100 pm
	1.705-30.0	30 botek An	30
	30-88	100 **	botel 3 Anbo
	88-216	150 **	AND O TOTOK
	216-960	200 **	Anbor 3 Ans
	Above 960	500	3er Ancor
	** Except as provided in p	V 1201	D.C.
	intentional radiators opera		
	frequency bands 54-72 MI		
sk abotek Ant	However, operation within		
	sections of this part, e.g.,		permitted under other
	In the emission table above		at the hand edges
	The emission limits shown		
	employing a CISPR quasi-		- XC.
	90 kHz, 110–490 kHz and		
	these three bands are bas		
	detector.	K Kotek Anbort	Plus Sek Spot
Test Method:	ANSI C63.10-2020, sectio	n 12.7.4. 12.7.6. 12.7.7	otek Aupon K
- Stek	NOTO ALL	Polok Pupos, - HV	Cick Vupore, Mu
	Above 1GHz:	IT was also and so the tow	of a matation table 1.5
	a. For above 1GHz, the El		
	meters above the ground		
	rotated 360 degrees to de		
	b. The EUT was set 3 met		
	which was mounted on the		
	c. The antenna height is v		
	ground to determine the m		
Procedure:	and vertical polarizations of		
	d. For each suspected em and then the antenna was		
	test frequency of below 30		
	and the rotatable table wa	s turried from 0 degrees to	5 300 degrees to lind the
	maximum reading. e. The test-receiver syster	n was set to Poak Dotact I	Function and Specified
	Bandwidth with Maximum		unction and Specified
	f. If the emission level of the		10dB lower than the
	limit specified, then testing		
		こししいい いき ろいしいせん すけい けん	- DUAN VAIDES UI LIE EUT









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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.

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.

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 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.

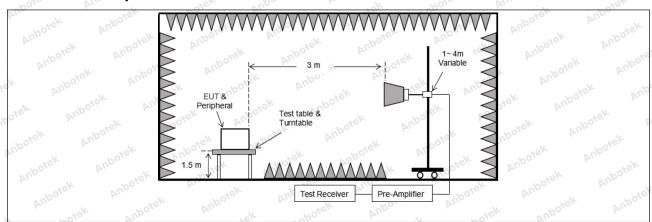






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11.2. Test Setup







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11.3. Test Data

Temperature:	23.5 °C	Humidity:	55 % ambone	Atmospheric Pressure:	101 kPa	· ·
		// · · · · · · · · · · · · · · · · · ·	00 / 0	7 turno pringuro r 100 guino r		

- No.	hore	Die.	76/2	70p.	No	- h010	VII.
		TM2 / 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	31.58	23.81	55.39	68.20	-12.81	V	Peak
15540.00	33.00	28.68	61.68	68.20	-6.52	Nupo. A	Peak
10360.00	32.10	23.81	55.91	68.20	-12.29	Anbolt	Peak
15540.00	33.04	28.68	61.72	68.20	-6.48	"Ho _{fen}	Peak
10360.00	21.054	23.81	44.86	54.00	-9.14	Vootek	AVG
15540.00	22.223	28.68	50.90	54.00	-3.10	V V	AVG
10360.00	21.293	23.81	45.10	54.00	-8.90 M	H Ann	AVG
15540.00	21.684	28.68	50.36	54.00	-3.64	nbotek H Ar	AVG
183		TM2 / Ban	d: 5150-5250	MHz / BW:	20 / CH: M	19	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10400.00	30.94	23.81	54.75	68.20	-13.45	Kupote	Peak
15600.00	32.53	29.13	61.66	68.20	-6.54	ek V nbot	Peak
10400.00	31.59	23.81	55.40	68.20	-12.80	H	Peak
15600.00	32.56	29.13	o ^{ne} 61.69 ^{Ani}	68.20	-6.51	H by	Peak
10400.00	21.324	23.81	45.13	54.00	-8.87	AnboreV	AVG
15600.00	22.343	29.13	51.47	54.00	-2.53	VUPA SK	AVG
10400.00	21.283	23.81	45.09	54.00	-8.91	Hotek	AVG
15600.00	21.764	29.13	50.89	54.00	-3,11	H	AVG
		TM2 / 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	30.51	23.80	54.31	68.20	-13.89	Aups A	Peak
15720.00	32.01	30.03	62.04	68.20	-6.16	Anbor	Peak
10480.00	31.23	23.80	55.03	68.20	-13.17	Hoores	Peak
15720.00	31.47	30.03	61.50	68.20	-6.70	ek Habote	Peak
10480.00	19.99	23.80	43.79	54.00	-10.21	V V	AVG AND
15720.00	21.10	30.03	51.13 And	54.00	-2.87	Over V Pur	AVG
10480.00	20.49	23.80	44.29	54.00	-9:71	Anbotek H	AVG
15720.00	20.55	30.03	50.58	54.00	-3.42	obH ^N	AVG

- 1. Result =Reading + Factor
- 2. Only the worst case(802.11n(HT20)_MIMO) is recorded in the report.









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		TM2 / Ban	d: 5250-535	0 MHz / BW:	40 / CH: L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10540.00	27.34	23.83	51.17	68.20	-17.03	P.V.	Peak
15810.00	29.11	30.70	59.81	68.20	-8.39	K Nupote	Peak
10540.00	27.73	23.83	51.56	68.20	-16.64	dek H no	Peak
15810.00	29.12	otel 30.70 prob	59.82	68.20	-8.38 And	Н	Peak
10540.00	17.00	23.83	40.83	54.00	-13.17	Nupor A	AVG
15810.00	18.25	30.70	48.95	54.00	-5.05	AUP OF	AVG
10540.00	17.52	23.83	41.35	54.00	-12.65	Hotek	AVG
15810.00	18.46	30.70	49.16	54.00	-4.84	H botek	AVG
		TM2 / Ban	d: 5250-535	0 MHz / BW:	40 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10620.00	28.08	23.90	51.98	68.20	-16.22	Ŋ.	Peak
15930.00	27.83	31.83	59.66	68.20	-8.54	Anb V.Sk	Peak
10620.00	28.53	23.90	52.43	68.20	-15.77	AUH.	Peak
15930.00	28.60	31.83	60.43	68.20	-7.77	Hoose	Peak
10620.00	18.31	23.90	42.21	54.00	-11.79	ek V nbot	AVG
15930.00	17.59	31.83	49.42	54.00	-4.58	V	ore AVG AN
10620.00	18.56	23.90	42.46	54.00	-11.54	H bu	AVG
15930.00	17.74 N	31.83	49.57	54.00	-4.43	Anborett H	AVG

- 1. Result =Reading + Factor
- 2. Only the worst case(802.11n(HT40)_MIMO) is recorded in the report.





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ter Aug	*	riek ant	, b.,	1/2	hoter An	,	atel ^k
		TM2 / Ban	nd: 5470-572	5 MHz / BW:	20 / CH: L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11000.00	26.96	24.15	51.11	68.20	-17.09	b.A.	Peak
16500.00	29.06	33.05	62.11	68.20	-6.09	k Nupote	Peak
11000.00	28.74	24.15	52.89	68.20	-15.31	nek H no	Peak
16500.00	29.14	33.05 M	62.19	68.20	oten-6.01 Ant	Н	Peak
11000.00	16.625	24.15	40.78	54.00	-13.22	upo, A	AVG
16500.00	17.947	33.05	51.00	54.00	-3.00	Aupof	AVG
11000.00	16.826	24.15	40.98	54.00	-13.02	Hotek	AVG
16500.00	16.733	33.05	49.78	54.00	-4.22	H botek	AVG
		TM2 / Ban	d: 5470-572	5 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	26.64	23.83	50.47	68.20	-17.73	V	Peak
16800.000	27.23	32.16	59.39	68.20	-8.81	Vup. A	Peak
11200.000	27.67	23.83	51.50	68.20	-16.70	An H	Peak
16800.000	27.75	32.16	59.91	68.20	-8.29	Hipoter	Peak
11200.000	16.875	23.83	40.71	54.00	-13.29	iek V nbot	AVG
16800.000	18.347	32.16	50.51	54.00	-3.49	V	AVG
11200.000	17.326	23.83	41.16	54.00	-12.84	Poor H	AVG
16800.000	18.593	32.16	50.75	54.00	-3.25	AnboreH	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	25.73	23.51	49.24	68.20	-18.96	Sk A Vupos	Peak
17100.000	27.12 noo	31.73	58.85	68.20	-9.35	otek V Ant	Peak P
11400.000	26.57	23.51	50.08	68.20	-18.12	H	Peak
17100.000	27.75	31.73	59.48	68.20	-8.72	Pupo, H	Peak
11400.000	16.26	23.51	39.77	54.00	-14.23	Aup O.	AVG
17100.000	17.56	31.73	49.29	54.00	-4.71	Notek	AVG
11400.000	20.12	23.51	43.63	54.00	-10.37	H H bote	AVG
17100.000	18.38	31.73	50.11	54.00	-3.89	H	AVG

- 1. Result =Reading + Factor
- 2. Only the worst case(802.11n(HT20)_MIMO) is recorded in the report.







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ier, Vup,	*	TM2 / Ran	od: 5725-585	0 MHz / BW:	20 / CH· I	· · · · · · · · · · · · · · · · · · ·	Alek .
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11490.000	28.50	23.36	51.86	68.20	-16.34	V.	Peak
17235.000	29.82	31.97	61.79	68.20	-6.41	k Nupote	Peak
11490.000	28.92	23.36	52.28	68.20	-15.92	Jek H Job	Peak
17235.000	30.05	31.97	62.02	68.20	-6.18 Ant	H	Peak
11490.000	17.77	23.36	41.13	54.00	-12.87	Wpo, A	AVG
17235.000	18.51	31.97	50.48	54.00	-3.52	Vupo C	AVG
11490.000	17.95	23.36	41.31	54.00	-12.69	Hotek	AVG
17235.000	18.03	31.97	50.00	54.00	-4.00	H botek	AVG
5.50		TM2 / 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	29.08	23.42	52.50	68.20	-15.70	V	Peak
17355.000	29.70	32.18	61.88	68.20	-6.32	Anbo V ok	Peak
11570.000	29.12	23.42	52.54	68.20	-15.66	Anh	Peak
17355.000	30.14	32.18	62.32	68.20	-5.88	Hypoten	Peak
11570.000	19.039	23.42	42.46	54.00	-11.54	ek V nbot	AVG
17355.000	18.831	32.18	51.01	54.00	-2.99	V	AVG
11570.000	18.935	23.42	42.36	54.00	-11.64	Poster H	AVG
17355.000	18.406	32.18	50.59	54.00	-3.41	AnboreH	AVG
		TM2 / 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	28.59	23.49	52.08	68.20	-16.12	SK A VUpor	Peak
17475.000	29.94	32.39	62.33	68.20	-5.87	otek V ant	Peak
11650.000	28.86	23.49	52.35	68.20	-15.85 AT	H	Peak
17475.000	29.75	32.39	62.14	68.20	-6.06	Pupo, H	Peak
11650.000	18.11	23.49	41.60	54.00	-12.40	Aup Ofer	AVG
17475.000	18.63	32.39	51.02	54.00	-2.98	Mortel	AVG
11650.000	18.12	23.49	41.61	54.00	-12.39	H bote	AVG
17475.000	18.38	32.39	50.77	54.00	-3.23	Н	AVG

- 1. Result =Reading + Factor
- 2. Only the worst case(802.11n(HT20)_MIMO) 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_RLAN

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 -----

