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FCC Test Report

Applicant GDU-Tech Co., Ltd.

Building 2, No.5, Huanglongshan South Road, **Address**

Donghu New Technology Development Zone,

Wuhan 430074, China

Quadcopter UAV Product Name

: Nov. 08, 2023 **Report Date**

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









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TEST REPORT

GDU-Tech Co., Ltd. Applicant

Manufacturer GDU-Tech Co., Ltd.

Product Name Quadcopter UAV

S400E Test Model No.

: N/A Reference Model No.

Trade Mark

Input: DC 23.1V, 14000mAh battery inside Rating(s)

47 CFR Part 15E Test Standard(s)

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

Date of Receipt.	Sept. 14, 2023
Date of Test:	Sept. 14, 2023 to Nov. 01, 2023
Anbotek Anbotek Anbotek Anbotek	Tu Tu Hong
Prepared By:	And And And
	(TuTu Hong)
	Idward pan
Approved & Authorized Signer:	Aupote, Aug ok spotek Vupo,
	(Edward Pap)





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Revision History

Report Version	Description	Issued Date
Anbore R00 potek An	Original Issue.	Nov. 08, 2023
W. Aupotek Aupotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter





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1. General Information

1.1. Client Information

V11.		107
Applicant	: GDU-Tech Co., Ltd.	
Address	Building 2, No.5, Huanglongshan South Road, Donghu New Technology Development Zone, Wuhan 430074, China	Vu _p
Manufacturer	: GDU-Tech Co., Ltd.	
Address	Building 2, No.5, Huanglongshan South Road, Donghu New Technology Development Zone, Wuhan 430074, China	
Factory	: GDU-Tech Co., Ltd.	
Address	Building 2, No.5, Huanglongshan South Road, Donghu New Technology Development Zone, Wuhan 430074, China	nbote

1.2. Description of Device (EUT)

Test Model No. : S40 Reference Model No. : N/A Trade Mark :	2-1(Normal Sample), 1-2-2(Engineering Sample) ndel: CPD-BC12
Reference Model No. Trade Mark Test Power Supply Test Sample No. Adapter RF Specification Operation Sylvariant Specification Sylvariant Specification N/A 1.	2-1(Normal Sample), 1-2-2(Engineering Sample) adel: CPD-BC12
No. : N/A Trade Mark : DC Test Power Supply : DC Test Sample No. : 1-2- Adapter : Inpu Out RF Specification Operation : 802	2-1(Normal Sample), 1-2-2(Engineering Sample) ndel: CPD-BC12
Test Power Supply : DC Test Sample No. : 1-2- Adapter : Mod Input Out RF Specification Operation : 802	2-3.1V battery inside 2-1(Normal Sample), 1-2-2(Engineering Sample) odel: CPD-BC12
Test Sample No. : 1-2- Adapter : Mod Out RF Specification Operation : 802	2-1(Normal Sample), 1-2-2(Engineering Sample) odel: CPD-BC12
Adapter : Mod Out RF Specification Operation : 802	odel: CPD-BC12
Adapter : Input Out RF Specification Operation : 802	
Operation . 802	out: AC100-240V 5A(max) 50/60Hz htput: 26.4V 14A;12V 3A;5V 3A
	2.11a: 45MHz to 5825MHz
Number of Channel : 802	2.11a:5 Anborek Anborek Anborek
Modulation Type : 802	2.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM)
Antenna Type : PCI	B Antenna
Antenna Gain(Peak) : 3.00	

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Ar. Anboter	And sek/ spotek	Wupo, T W. Potek	Aupoter Aug



Hotline

www.anbotek.com.cn

400-003-0500



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1.4. Operation channel list

Frequency Band	Mode	Test channel	Frequency (MHz)
Anbotek Anbo	ak Abotek Anbotes And Stek	CH 149	5745MHz
k abotek A	hoore Anthorek Anborek Anbo	CH153	5765MHz
5.8	OFDM 802.11a	CH 157	5785MHz
or All potek	Anborek Anborek Anborek	CH 161	5805MHz
hote, And hotek	Anbotek Anbotek Anbotek	CH 165	5825MHz

1.5. Description of Test Modes

Pretest Modes		Descriptions
p'	nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB And tek andorek Andorek
Conducted Output Power	0.76dB
Occupied Bandwidth	925Hz Anbotek Anbotek
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dBand atek Anbotek Anbotek
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	Anbotek / Anboter	N N
Duty Cycle	Mode1	PARTE
Maximum conducted output power	Mode1	P
Power spectral density	Mode1	nbote P.
Emission bandwidth and occupied bandwidth	Mode1	Anbot P
Band edge emissions (Radiated)	Mode1	A P
Undesirable emission limits (below 1GHz)	Mode1	Panboa
Undesirable emission limits (above 1GHz)	Mode1	PAR
Note: P: Pass N: N/A not applicable	unpotek Aupotek Ar	horek

N: N/A, not applicable





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1.8. Description of Test Facility

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

FCC-Registration No.:184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.9. Disclaimer

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

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





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1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Anbe	k spotel	Anbore	All
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 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	ek Anbor

Duty Cycle Maximum conducted output power

Power spectral density

Emis	sion bandwidth and	occupied bandwidth	r. rek	abore.	AUL	Polek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 Ant	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
2	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
3	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
4	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
Anbore	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22
6	Power Meter	Agilent	N1914A	MY500011 02	2023-10-20	2024-10-19

	edge emissions (Ra sirable emission limi		Aupotek	Anborer	upotek.	Aupotek Vul
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 1	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
٠ 3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
o ^{*©} 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Wpoter b	No oboteM A
nº5 ^{tek}	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7 A.T	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24







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Unde	sirable emission limi	ts (below 1GHz)	Anborousk	Aug Potek	Anborek	Aupo, otek
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 10/3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
nb4ek	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupoter	Andorek





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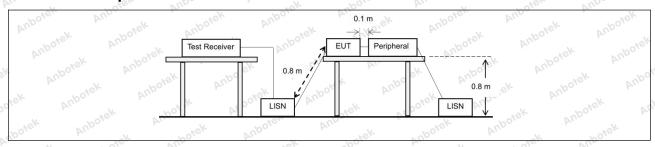
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ick hotek Aup	otek And Stek			
Aug sek upotek	Frequency of emission (MHz)	Conducted limit (dBµV	hotek Anbu			
Anbo, Ai.	AND AND OK	Quasi-peak	Average			
ak botek Anbo	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5 And a see	56	46 100 ter 11/11			
otek Anbors A	5-30 And And	60 notek Anbo	50			
stek subotek	*Decreases with the logarithm of the frequency.					
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices					

2.1. EUT Operation

e	Operating Envi	ronm	nent:	Anboier	And	Anbotek	Anbor	hotek	Anbe
0	Test mode:	1	Aus	Anboiek	Anbo	abotek	Anboro	Aur	0.1

2.2. Test Setup



2.3. Test Data

Temperature:	I stek	Humidity: /	Atmospheric Pressure:	d.	Mbotek
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Not applicable for equipment operated with DC power supply.



Hotline



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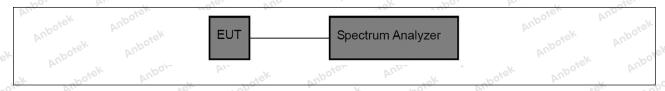
3. Duty Cycle

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 C63.10-2013 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 Ant	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 Envir	onment:	Aupo ***	abotek	Anbore	Aur Polsk	Anbotek
, O,	Test mode:	1: 802.11a mode: Kee transmitting mode wit found the data rate @ recorded in the report	h 802.11a mod 6Mbps is the	dulation type.	All data rates	s has been test	ted and

3.2. Test Setup



3.3. Test Data

Temperature: 25.3 °C Humidity: 49.2 % Atmospheric Pressure: 101 kPa	Temperature: 25.3 °C Humidity: 49.2 % Atmospheric Pressure: 10
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Please Refer to Appendix for Details.







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4. Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(3)(i)
k Anbotek Anbotek Anbotek 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.
Test Limit:	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 C63.10-2013, section 12.3
	Method SA-2 a) Measure the duty cycle D of the transmitter output signal. b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. c) Set RBW = 1 MHz.
	d) Set VBW >= 3 MHz.
	e) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so that narrowband signals are not lost between frequency bins.)
	f) Sweep time = auto. g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
Procedure:	h) Do not use sweep triggering. Allow the sweep to "free run."
	i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
	j) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum
	k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

4.1. EUT Operation

	Operating Envir	onment:							40
	Aur	1: 802.11a n	node: Keep t	he EUT co	nnect to A	C power	line and v	works in c	ontinuously
e,e	Test mode:	transmitting	mode with 8	02.11a mo	dulation ty	pe. All da	ta rates l	nas been	tested and
	k hotek	found the da	ita rate @ 6N	Abps is the	worst cas	e. Only t	he data	of worst ca	ase is



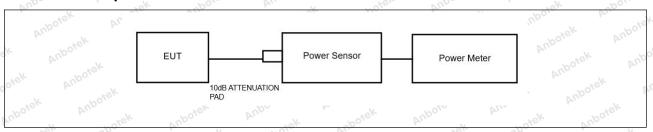




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recorded in the report.

4.2. Test Setup



4.3. Test Data

Temperature: 25.3 °C Humidity: 49.2 % Atmospheric Pres	sure: 101 kPa
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Please Refer to Appendix for Details.

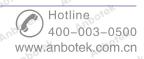




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5. Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(3)(i)
Anbotek Anbotek	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.
Test Limit:	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.
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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 C63.10-2013, section 12.5
Anborek Anborek	a) Create an average power spectrum for the EUT operating mode being tested by following the
	instructions in 12.3.2 for measuring maximum conducted output power using a spectrum
	analyzer or EMI receiver; that is, select the appropriate test method (SA-1, SA-2, SA-3, or their
	respective alternatives) and apply it up to, but not including, the step labeled "Compute
	power" (This procedure is required even if the maximum conducted output power
	measurement was performed using the power meter method PM.) b) Use the peak search function on the instrument to find the peak of the spectrum.
And Anbotek A	c) Make the following adjustments to the peak value of the spectrum, if applicable:
Procedure:	1) If method SA-2 or SA-2A was used, then add [10 log (1 / D)], where D is the duty
	cycle, to the peak of the spectrum. 2) If method SA-3A was used and the linear mode was used in step h) of 12.3.2.7, add
	1 dB to the final result to compensate for the difference between linear averaging and
	power averaging.
	d) The result is the PPSD. e) The procedure in item a) through item c) requires the use of 1 MHz
	resolution bandwidth to satisfy the 1 MHz measurement bandwidth specified by some regulatory authorities. This
	requirement also permits use of resolution bandwidths less than 1 MHz "provided that the







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measured power is integrated to show the total power over the measurement bandwidth" (i.e.,

1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated

over 1 MHz bandwidth, the following adjustments to the procedures apply:

- 1) Set RBW >= 1 / T, where T is defined in 12.2 a).
- 2) Set VBW >= [3 × RBW].
- 3) Care shall be taken such that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

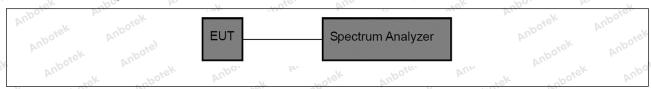
5.1. EUT Operation

Operating Environment:

Test mode:

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.

5.2. Test Setup



5.3. Test Data

×,5	Temperature:	25.3 °C	Humidity:	49.2 %	Atmospheric Pressure:	101 kPa
	EV. total	D D/-	120	- 00		- DV

Please Refer to Appendix for Details.



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6. Emission bandwidth and occupied bandwidth

Test Requirement:	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Test Limit:	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 C63.10-2013, section 6.9.3 & 12.4 KDB 789033 D02, Clause C.2
o. W. Polsk	Occupied bandwidth:
inbotek Anbotek	a) The instrument center frequency is set to the nominal EUT channel center frequency. The
Anbotek Anbotek	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 specified by the
	applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal from exceeding the
	maximum input mixer level for linear operation. In general, the peak of the spectral envelope
	shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given
tek abotek	in 4.1.5.2.
	d) Step a) through step c) might require iteration to adjust within the specified range.
Procedure:	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode
	shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be
	used. Anbore Andrew Anborek Anborek
	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured
	bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the trace data points are
	recovered and directly summed in linear power terms. The recovered amplitude data points,
	beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached;
	that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the
	total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is
	the difference between these two frequencies.
	h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument







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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.

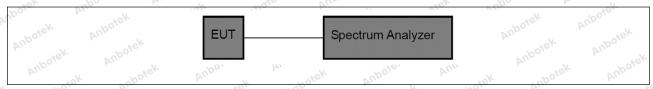
6.1. EUT Operation

Operating Environment:

Test mode:

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.

6.2. Test Setup



6.3. Test Data

Temperature:	25.3 °C	Humidity:	49.2 %	Atmospheric Pressure:	101 kPa	
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Please Refer to Appendix for Details.





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7. Band edge emissions (Radiated)

est Requirement:	47 CFR Part 15.407(b	10.5	anbotek Anbi	
E- Totek Pupotek	47 CFR Part 15.407(b))(10) Anboi	br.	inpoter, Vupe
	For transmitters opera	V4.		700
	All emissions shall be			
	above or below the ba			
	above or below the ba			
otek Anbor	edge increasing linear below the band edge,			
	increasing linearly to a			
	MHz	MHz	MHz	GHz
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
All tek	10.495-0.505	16.69475-	608-614	5.35-5.46
	0.495-0.505	16.69525	000-014	3.33-3.40
. aboren And	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
	apore Aires	16.80475	July 12:0	Anbore
	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-	9.3-9.5
	hotek Anbo,	VI.	1646.5	, y , y
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
Anbe Anbe	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
est Limit: Moore	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
And ak bojek	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
hotek Anbo	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
	12.57675-12.57725	322-335.4	3600-4400	(2) Lotek
	13.36-13.41	Anbo	isk anbore	bu. Tok
	Aupor Air.			
	¹ Until February 1, 1999	9, this restricted band	l shall be 0.490-	0.510 MHz.
	VII. Tek Supote	And		
	² Above 38.6			
	ek abole Anb			Yek
	The Cald at 600 at 1 at 10	upoter And	ithin thebotek	Aupo, Pri
Vun.	The field strength of er			
	not exceed the limits s			
	1000 MHz, compliance using measurement in			
	detector. Above 1000 I			
	15.209shall be demon			
	emissions. The provisi			
	k abotek Anb	, and a second property	Anbore	10K . 1
	Except as provided els	Southoro in this sub-	urt the Spain in it	Anbor An
	LEXCEDI AS DIOVIDED AIS	sewhere in this suppl	u inecemissión:	s irom ans









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	following table:		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
And sek	ek Anbo. Ar.	Anbore And	(meters)
	0.009-0.490	2400/F(kHz)	300
abotek An	0.490-1.705	24000/F(kHz)	30,000
	1.705-30.0	30	30 porer
	30-88	100 **	3
rek abotek	88-216	150 **	Spote 3 Aupo,
	216-960	200 **	n 3 k mbotek
abotek Anbo	Above 960	500	AND 3 AND
est Method:	ANSI C63.10-2013, section	on 12.7.4, 12.7.5, 12.7.6	Anboier Anbe
	Above 1GHz:		
	a. For above 1GHz, the E	EUT was placed on the top of	a rotating table 1.5
		at a 3 meter fully-anechoic of	
		etermine the position of the h	
	1 - V	ters away from the interferen	
		e top of a variable-height ant	
		varied from one meter to four	
Air.		naximum value of the field st	
	- 100	of the antenna are set to ma	_
		nission, the EUT was arrange	700
VII.		s tuned to heights from 1 met	
		0MHz, the antenna was tune	
		as turned from 0 degrees to 3	
	maximum reading.	Lotek Anbort All	*ek abotek
	e. The test-receiver syste	m was set to Peak Detect Fu	inction and Specified
	Bandwidth with Maximum		sbotek Anbo
	f. If the emission level of	the EUT in peak mode was 1	0dB lower than the
" hotek Anbe		g could be stopped and the p	
Procedure:		wise the emissions that did n	
		y one using peak or average	
	and then reported in a da		otek Anbore
	g. Test the EUT in the low	est channel, the middle char	nnel, the Highest
	channel.	Anbo	Aupore Aur
	h. The radiation measure	ments are performed in X, Y,	Z axis positioning for
		ound the X axis positioning w	
	case.	Aupo, I W. Otek	
	V	es until all frequencies meas	ured was complete.
aboten Ar	Remark:	Tek Spore	And
	PO12	able Loss+ Antenna Factor- F	Preamn Factor
	10 VOV		- C.P.
tek abotek		OGHz, the disturbance above	
		ove plots are the highest emi	
		ve points had been displayed	
Aur Poly		the radiator which are attenua	ateu more man 200B
	below the limit need not be	18 CV	
		n, for frequencies above 1Gl	X ()
		ge limits. However, the peak	





emission shall not exceed the maximum permitted average limits specified





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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.

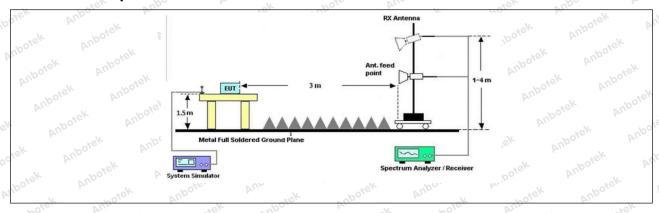
7.1. EUT Operation

Operating Environment:

Test mode:

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.

7.2. Test Setup









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7.3. Test Data

Tempera	ture: 25.3 °C	Humidity: 49.2 %	Atmospheric Pressure:	101 kPa
---------	---------------	------------------	-----------------------	---------

			rek				
TM1							
			Test chann	nel: Lowest			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	38.06	16.37	54.43	74.00	-19.57	, oH ^k	Peak
5725.00	39.40	16.37	55.77	74.00	-18.23	V. Viek	Peak
5725.00	28.95	16.70	45.65	54.00	-8.35	P. H.	AVG
5725.00	30.06	16.70	46.76	54.00	-7.24	Nupo	AVG
			Test chann	el: Highest			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.99	17.21	56.20	68.20	-12.00	<i>Pupo</i> . H ™	Peak
5850.00	39.33	17.21	56.54	68.20	-11.66	AUV	Peak
5850.00	28.99	17.21	46.20	54.00	-7.80	Hootek	AVG
5850.00	29.03	17.21	46.24	54.00	-7.76	V V vot	AVG NO

Remark: 1. Result=Reading + Factor



Hotline



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8. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9) And solek	Anbor All
Aupotek Aupote	Unwanted emissions belostrength limits set forth in	ow 1 GHz must comply with § 15.209.	the general field
tek Aupotek	Except as provided elsev intentional radiator shall following table:	where in this subpart, the em not exceed the field strength	nissions from an levels specified in the
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
	1.705-30.0 30-88	30 100 **	30 Anbore
	88-216 216-960	150 ** 200 **	3k Anborek
Test Method:	ANSI C63 10 2013 secti	500 on 12.7.4, 12.7.5, 12.7.6	Ant 3
And And	Below 1GHz:	011 12.7.4, 12.7.5, 12.7.0	And Solek Ant
	meters above the ground was rotated 360 degrees b. The EUT was set 3 or	EUT was placed on the top of at a 3 meter semi-anechoic to determine the position of 10 meters away from the intermined to the intermined	chamber. The table the highest radiation. erference-receiving
	c. The antenna height is ground to determine the	nted on the top of a variable varied from one meter to fou maximum value of the field s	ır meters above the strength. Both horizon
Anbotek Anbot	d. For each suspected er	of the antenna are set to main mission, the EUT was arrang	ged to its worst case
	test frequency of below 3	s tuned to heights from 1 me 30MHz, the antenna was tun as turned from 0 degrees to	ed to heights 1 meter)
Procedure:	V	em was set to Peak Detect F n Hold Mode.	unction and Specified
Anbotek Anbotek Anbotek	limit specified, then testir would be reported. Other	the EUT in peak mode was ng could be stopped and the wise the emissions that did y one using quasi-peak met heet.	peak values of the El not have 10dB margir
upotek Aupotek	channel.	vest channel, the middle cha ements are performed in X, Y	Anbo sek abotek
	Transmitting mode, and f case.	ound the X axis positioning	which it is the worst
h. nbotek Anb	7/10	res until all frequencies mea	sured was complete.
	Remark:		









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- 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 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









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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.

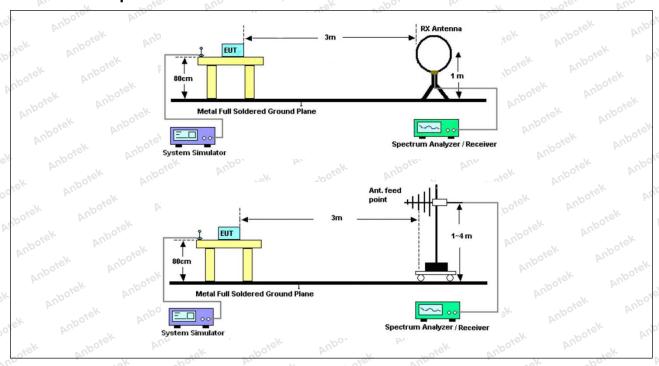
8.1. EUT Operation

Operating Environment:

Test mode:

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.

8.2. Test Setup



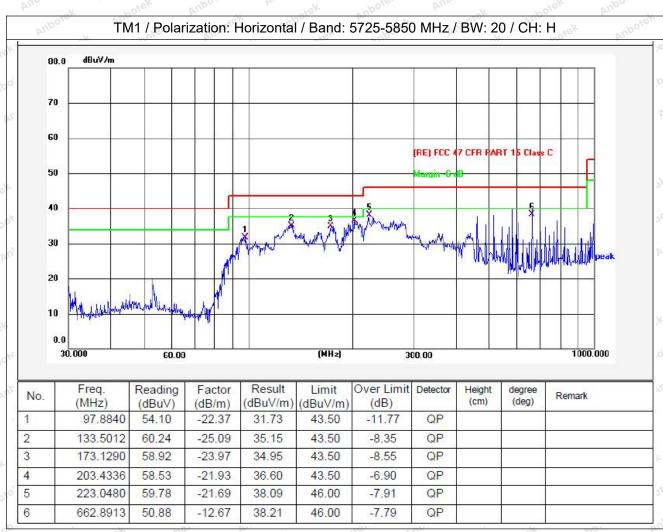




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8.3. Test Data

Temperature: 25.3 °C Humidity: 49.2 % Atmospheric Pressure: 101 kPa

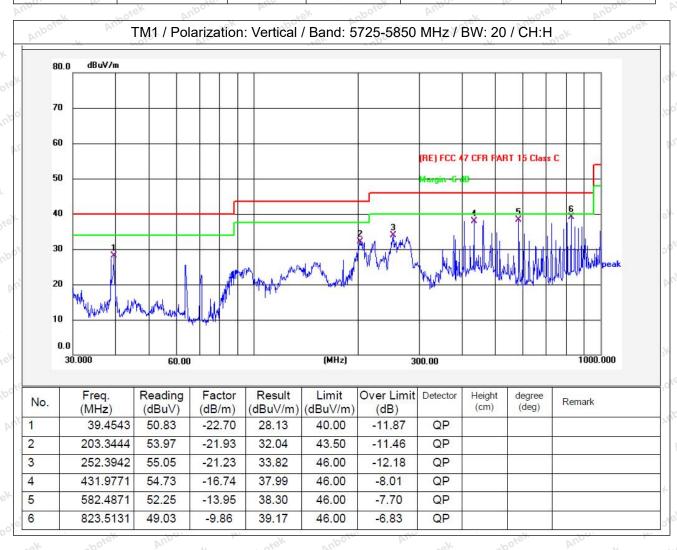






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Temperature: 25.3 °C Humidity: 49.2 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.







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9. Undesirable emission limits (above 1GHz)

Test Requirement:	47 CFR Part 15.407(b	100		or Andore
abotek Anbote	47 CFR Part 15.407(b	, V	,	upo, V
	For transmitters opera	V11.		700
	All emissions shall be			
	above or below the ba			
	above or below the ba			
ootek Anbo	edge increasing linear below the band edge,			
tek anboien	increasing linearly to a			
	MHz	MHz	MHz	GHz
aborek Anbe	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	10.495-0.505	16.69475-	608-614	5.35-5.46
	0.493-0.303	16.69525	000-014	0.00-0.40
	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
	231700 2.1000	16.80475	000 12-10	Anbore
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
atek abotek	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
	4.20725-4.20775	73-74.6	1645.5-	9.3-9.5
	h. Otek Anbor	Yun 'Sk	1646.5	φυ
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
	6.26775-6.26825	108-121.94	1718.8-	13.25-13.4
	V Cotek	Anbore Ani	1722.2	Anbo
All	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
est Limit:	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
And ak hotek	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) notek
	13.36-13.41	Aupo.	tek upore	And
	Anbore Am		- V hote	
	¹ Until February 1, 199	9, this restricted band	l shall be 0.490-	0.510 MHz.
	An sek shote	W. Aupo	wotek Anb	OL VILL
	² Above 38.6		And	
	Above 36.0			
	Aug "Sk			
Anbo	The field strength of e			
	not exceed the limits s			
	1000 MHz, compliance			
	using measurement in			
	detector. Above 1000			
	15.209shall be demon		1// 1 .	
	emissions. The provisi	ions in § 15.35apply t	o inese measur	ements.
	And			
	Except as provided els			
	intentional radiator sha	all not exceed the field	d strength levels	specified in the









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following table:		200, b.
Frequency (MHz)	Field strength	Measurement
h Anbore.	(microvolts/meter)	distance
Ando	Anbore Aris	(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	otek 30 hbo. A.
1.705-30.0	30	30 hotek
30-88	100 **	hote 3 Am
88-216	150 **	note 3 anborre
		And 3 L Lotek
	2.01. 07.	123 Ans
1.040, 2745	- S/- VD	Anbor
- 10k / 100	11 12.7.4, 12.7.0, 12.7.0	Aupo ek a
	IT was placed on the text	of a retating table 1.5
70° - 7		- 184
	V1.	
and vertical polarizations of	of the antenna are set to r	nake the measurement
d. For each suspected emi	ission, the EUT was arrai	nged to its worst case
and then the antenna was	tuned to heights from 1 r	neter to 4 meters (for th
test frequency of below 30	MHz, the antenna was tu	ned to heights 1 meter)
and the rotatable table was	s turned from 0 degrees t	o 360 degrees to find the
maximum reading.		
e. The test-receiver system	n was set to Peak Detect	Function and Specified
		abotek Anbe
f. If the emission level of th	ne EUT in peak mode was	s 10dB lower than the
		niek Anbore
		nannel the Highest
	Anbananinan, and middle of	And
	nents are performed in Y	V 7 axis positioning for
611	und the A axis positioning	y willou it is the worst
	wtil all totala a aight ha a	All
	es until all frequencies me	easured was complete.
		-k hotek
1. Level= Read Level+ Cal	ble Loss+ Antenna Facto	r- Preamp Factor
2. Scan from 18GHz to 40	GHz, the disturbance abo	ove 18GHz was very lov
below the limit need not be		k Anbore Lian Anab
E S. S. H. W. S. H. H. H. HOUGH HOU DO	70° - 40°	
3 As shown in this section	for frequencies above 1	CHz the field strongth
3. As shown in this section limits are based on averag		
	0.009-0.490 0.490-1.705 1.705-30.0 30-88 88-216 216-960 Above 960 ANSI C63.10-2013, section Above 1GHz: a. For above 1GHz, the EU meters above the ground a rotated 360 degrees to det b. The EUT was set 3 met which was mounted on the c. The antenna height is va ground to determine the m and vertical polarizations of d. For each suspected em and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of th limit specified, then testing would be reported. Otherw would be re-tested one by and then reported in a data g. Test the EUT in the lowe channel. h. The radiation measurem Transmitting mode, and fo case. i. Repeat above procedure Remark: 1. Level= Read Level+ Cal 2. Scan from 18GHz to 40 The points marked on abov when testing, so only abov spurious emissions from the	(microvolts/meter) 0.009-0.490 0.490-1.705 24000/F(kHz) 1.705-30.0 30-88 100 ** 88-216 216-960 200 ** Above 960 ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6 Above 1GHz: a. For above 1GHz, the EUT was placed on the top meters above the ground at a 3 meter fully-anechoi rotated 360 degrees to determine the position of the b. The EUT was set 3 meters away from the interfet which was mounted on the top of a variable-height c. The antenna height is varied from one meter to force ground to determine the maximum value of the field and vertical polarizations of the antenna are set to red. For each suspected emission, the EUT was arrar and then the antenna was tuned to heights from 1 rest frequency of below 30MHz, the antenna was tu and the rotatable table was turned from 0 degrees to maximum reading. e. The test-receiver system was set to Peak Detect Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was limit specified, then testing could be stopped and the would be reported. Otherwise the emissions that did would be reported in a data sheet. g. Test the EUT in the lowest channel, the middle of channel. h. The radiation measurements are performed in X, Transmitting mode, and found the X axis positioning case. i. Repeat above procedures until all frequencies meremark: 1. Level= Read Level+ Cable Loss+ Antenna Facto 2. Scan from 18GHz to 40GHz, the disturbance about the repoints marked on above plots are the highest even testing, so only above points had been displa spurious emissions from the radiator which are attered the stream of the points marked on above plots are the highest even testing, so only above points had been displa spurious emissions from the radiator which are attered.









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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.

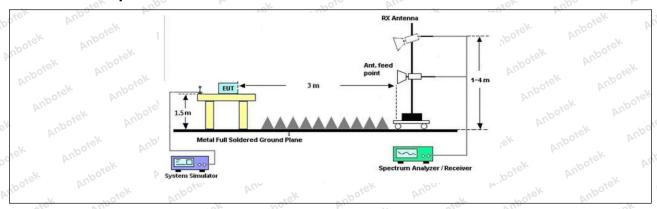
9.1. EUT Operation

Operating Environment:

Test mode:

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.

9.2. Test Setup





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9.3. Test Data

Temperature: 25.3 °C	Humidity: 49.2 %	Atmospheric Pressure:	101 kPa
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N. 2K	hote.	Vur.	-tek	Anbo.	N N.	-hofe'	Arre
	1			CH: L		I	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11490.000	28.41	23.36	51.77	68.20	-16.43	wekV .	Peak
17235.000	29.67	31.97	61.64	68.20	-6.56	hupo, A	Peak
11490.000	28.73	23.36	52.09	68.20	-16.11	PupoH	Peak
17235.000	29.94	31.97	61.91	68.20	-6.29	W.Hoter	Peak
11490.000	17.62	23.36	40.98	54.00	-13.02	Vabotek	AVG
17235.000	18.29	31.97	50.26	54.00	-3.74	V V	AVG NO
11490.000	17.76	23.36	41.12	54.00	-12.88 _p	H Pur	AVG
17235.000	17.94	31.97	49.91	54.00	-4.09	nboten H Ar	AVG
			TM1 /	CH: M			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11570.000	28.99	23.42	52.41	68.20	-15.79	, Nupole	Peak
17355.000	29.55	32.18	61.73	68.20	-6.47	iek V Anbo	Peak
11570.000	28.93	23.42	52.35	68.20	-15.85	Nek H	Peak
17355.000	30.03	32.18	62.21	68.20	-5.99	H	Peak
11570.000	18.889	23.42	42.31	54.00	-11.69	Aupo, A	AVG
17355.000	18.615	32.18	50.79	54.00	-3.21	AUTO	AVG
11570.000	18.752	23.42	42.17	54.00	-11.83	Hoolek	AVG
17355.000	18.323	32.18	50.50	54.00	-3.50	H both	AVG O
			TM1 /	CH: H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11650.000	28.50	23.49	51.99	68.20	-16.21	N. Vek	Peak
17475.000	29.79	32.39	62.18	68.20	-6.02	AnbV CK	Peak
11650.000	28.67	23.49	52.16	68.20	-16.04	PHOOF	Peak
17475.000	29.64	32.39	62.03	68.20	-6.17	ek Hanbois	Peak
11650.000	17.96	23.49	41.45	54.00	-12.55	otek V no	AVG N
17475.000	18.41	32.39	50.80	54.00	-3.20 M	V	AVG
11650.000	17.93	23.49	41.42	54.00	-12.58	Aupole H	AVG
17475.000	18.29	32.39	50.68	54.00	-3.32	AnbAtel	AVG
40		1.07	12/7	- UDIT			

Remark:

1. Result =Reading + Factor

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2. During the test, pre-scan the all modulation, only the worst case 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 -----

