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FCC TEST REPORT

: PAWBO INC. Client Name

7F.-5, No.369, Fuxing N. Rd., Songshan Dist., Taipei City, Address

Taiwan

Product Name Pawbo Crunchy

Date Nov. 15, 2019

Shenzhen Anbotek Compliance Laboratory Limited





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TEST REPORT

Applicant PAWBO INC.

Manufacturer Pan-International Precision Electronic Co., Ltd

Product Name Pawbo Crunchy

Model No. PPC-PF01

Trade Mark **PAWBO**

Rating(s) Input: DC 5V, 2A (Via Adapter Input: AC 100-240V, 50/60 Hz, 0.3A)

Test Standard(s) FCC Part15 Subpart C 2018, Section 15.247

Test Method(s) ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05

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 the FCC Part 15 Subpart C 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 Date of Test Oct. 17~Nov. 13, 2019 **Anbotek** Prepared by

(Engineer / Dolly Mo)

this thank

MICh

Oct. 17, 2019

Reviewer

(Supervisor / Bibo Zhang)

Sally zhang

Approved & Authorized Signer

(Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

Applicant	PAWBO INC.	Anborek
Address	7F5, No.369, Fuxing N. Rd., Songshan Dist., Taipei City, Taiwan	Anboy
Manufacturer	Pan-International Precision Electronic Co., Ltd	-K An
Address	Xinlian Indl. Area, Hu-men, Dongguan, Guangdong, China	-+e/-
Factory	Pan-International Precision Electronic Co., Ltd	botek.
Address	Xinlian Indl. Area, Hu-men, Dongguan, Guangdong, China	Ananbote

1.2. Description of Device (EUT)

Product Name	:	Pawbo Crunchy	Anbotek Anbotek Anbotek Anbotek						
Model No.	:	PPC-PF01	Anbotek Anbotek Anbotek Anbotek						
Trade Mark	:	PAWBO	ak Anborek Anborek Anborek Anborek Anborek						
Test Power Supply	:	AC 120V, 60Hz for adapter							
Test Sample No.	:	1-2-1(Normal Sample), 1-2	2-2(Engineering Sample)						
	:	Operation Frequency:	WiFi: 802.11b/ g/ n(HT20) 2412-2462MHz BT: 2402-2480MHz						
		Number of Channel:	WiFi: 11 Channels for 802.11b/ g/ n(HT20) BDR&EDR: 79 Channels BLE: 40 Channels						
Product Description		Modulation Type:	WiFi: 802.11b CCK; 802.11g/n OFDM BDR&EDR: GFSK, π/4-DQPSK, 8-DPSK BLE: GFSK						
		Antenna Type:	PCB Antenna						
		Antenna Gain(Peak):	-1.49 dBi						

Remark: 1)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2) This report is for WiFi module.

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1.3. Auxiliary Equipment Used During Test

Adapter : Model: DSA-10PFP-05 050200

Input: AC 100-240V, 50/60Hz, 0.3A

Output: DC 5V, 2A

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

	Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
1/93	802.11b	1 to 11	botek 1 Anbr	CCK	DBPSK	1.0

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

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BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 11	CCK	DBPSK	Anto 1.0
802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5

ANTENNA PORT CONDUCTED MEASUREMENT:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	04	2427	07	2442	MO 10	2457
02	2417	05	2432	08	2447	11 ren	2462
03	2422	06	2437	09	2452	100101	

Code: AB-RF-05



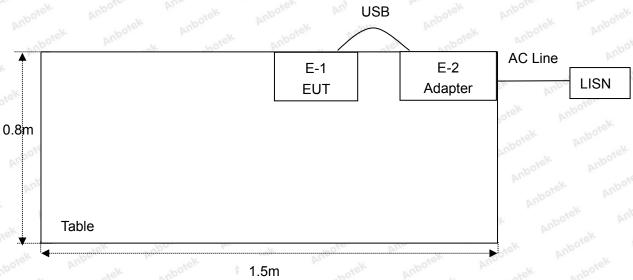
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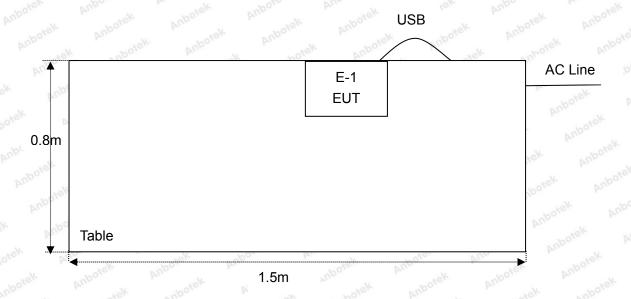
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1.6. Description Of Test Setup

CE



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1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
1.Anh	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.nb	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
nbote 7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 01, 2019	1 Year
9.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 01, 2019	1 Year
10.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 04, 2019	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 04, 2019	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 04, 2019	1 Year
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
16.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year
17.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 04, 2019	1 Year
18.	DC Power Supply	LW	TPR-6420D	374470	Nov. 04, 2019	1 Year
19.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 04, 2019	1 Year

Email: service@anbotek.com

Tel:(86) 755-26066440

Hotline 400-003-0500

Code: AB-RF-05-a

Fax: (86) 755-26014772



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1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizonta	al) Anbor	- Anborek	Aupote.
		Ur = 3.8 dB (Vertical)	otek Anbu	tek anbotek	Anbore
		tek pintek p	inpoter K Aup	Lotek Anbotek	Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	Anbote. A	hotek Anbot	ek Aupo

1.9. 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 registed 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, September 27, 2019.

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, March 07, 2019.

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.518102

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2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS



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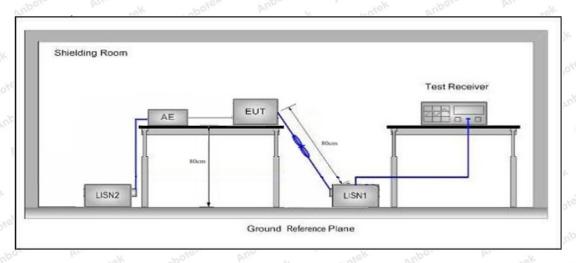
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.20	7 tek anbotek Anbo	re. And botek Anbotek
	Fraguency	Maximum RF Lir	ne Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46 Aborek
	5MHz~30MHz	60	50 photek

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted **Emission Measurement.**

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, all modes were pre-scanned and the AC adaptor of the 802.11b CH01 was found. This is the worst case, only the worst case is recorded in the report.

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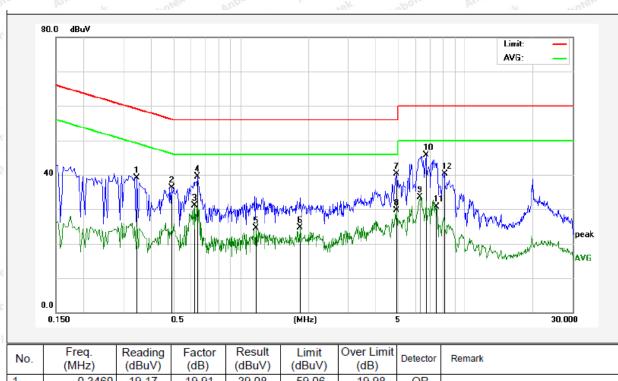
Conducted Emission Test Data

Test Site: 1# Shielded Room Operating Condition: 802.11b CH01

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 22.5℃ Hum.: 52%



	No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	(dBuV)	Limit (dBuV)	(dB)	Detector	Remark
	1	0.3460	19.17	19.91	39.08	59.06	-19.98	QP	
3	2	0.4940	16.23	19.98	36.21	56.10	-19.89	QP	
	3	0.6260	11.12	20.02	31.14	46.00	-14.86	AVG	
į	4	0.6419	19.43	20.02	39.45	56.00	-16.55	QP	
	5	1.1700	4.30	20.12	24.42	46.00	-21.58	AVG	
>	6	1.8340	4.66	20.14	24.80	46.00	-21.20	AVG	
	7	4.9420	20.08	20.20	40.28	56.00	-15.72	QP	
	8	4.9420	9.48	20.20	29.68	46.00	-16.32	AVG	
	9	6.2940	13.29	20.24	33.53	50.00	-16.47	AVG	
ê	10	6.6700	25.47	20.25	45.72	60.00	-14.28	QP	
	11	7.4340	10.35	20.27	30.62	50.00	-19.38	AVG	
1	12	8.0860	19.95	20.29	40.24	60.00	-19.76	QP	



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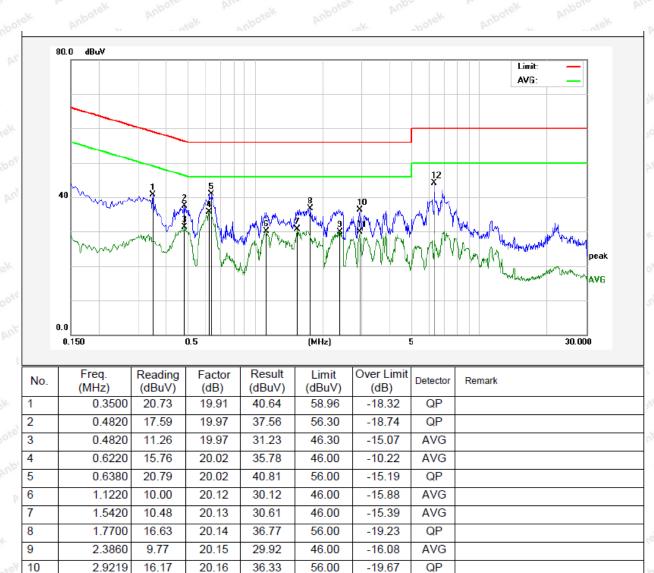
Conducted Emission Test Data

Test Site: 1# Shielded Room Operating Condition: 802.11b CH01

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.5℃ Hum.: 52%



46.00

60.00

-16.13

-15.99

AVG

QP

9.71

23.77

2.9219

6.2860

11

12

20.16

20.24

29.87

44.01



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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15	5.209 and 15.205	potek Anboti	-k PU	rek Anbotek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Aupo.	A. obotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	anbox.	k photek	30
	1.705MHz-30MHz	30	otek Anbo	otek nobot	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	otek 3 Anbo
	88MHz~216MHz	150	43.5	Quasi-peak	inbotek 3
	216MHz~960MHz	200	46.0	Quasi-peak	Ambo 3
	960MHz~1000MHz	500	54.0	Quasi-peak	Arr 3 rest
	Al 4000MI	500	54.0	Average	3,50,10
	Above 1000MHz	Anbo. otek	74.0 Miles	Peak	otek 3 Anbote

Remark

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

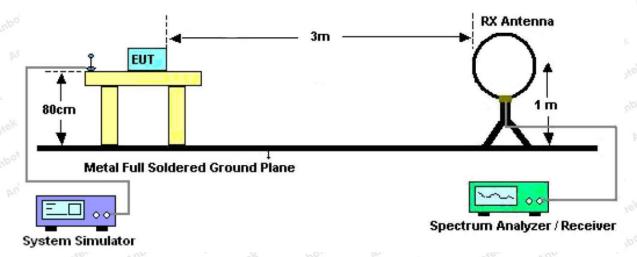


Figure 1. Below 30MHz



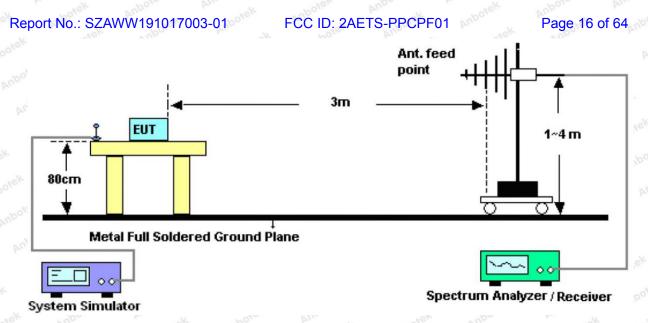


Figure 2. 30MHz to 1GHz

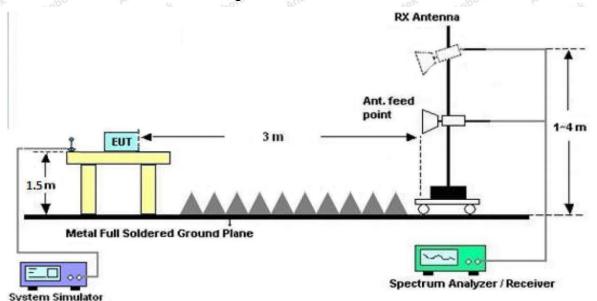


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

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For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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

During the test, pre-scan all modes, and found the 802.11b CH01 which is the worst case, only the worst case is recorded in the report.

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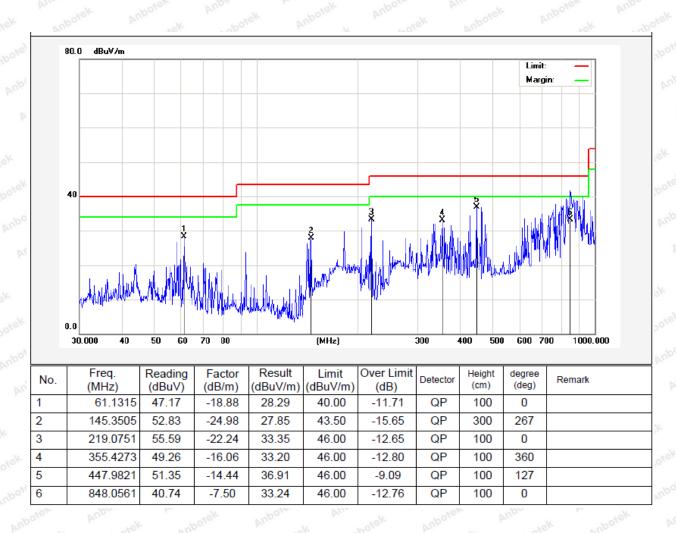
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Test Results (30~1000MHz)

Job No.: SZAWW191017003-01 Temp.(℃)/Hum.(%RH): 22.2℃/51%RH

Standard: FCC PART 15C Power Source: AC 120V, 60Hz for adapter

Test Mode: 802.11b CH01 Polarization: Horizontal





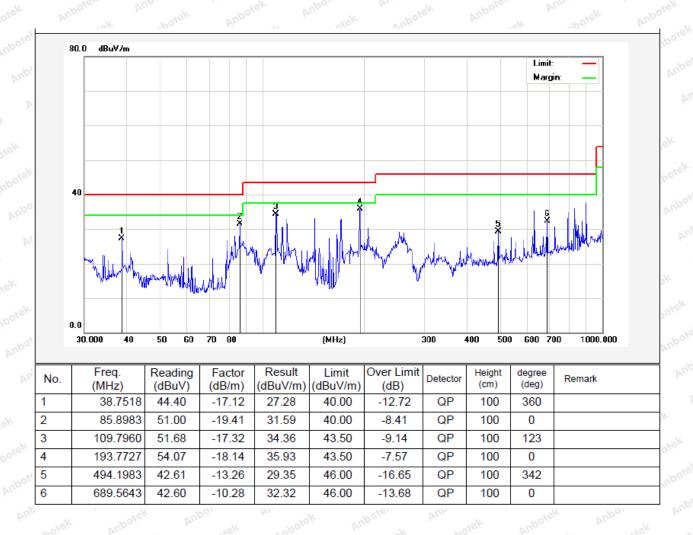
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Test Results (30~1000MHz)

Job No.: SZAWW191017003-01 Temp.(℃)/Hum.(%RH): 22.2℃/51%RH

Standard: FCC PART 15C Power Source: AC 120V, 60Hz for adapter

Test Mode: 802.11b CH01 Polarization: Vertical



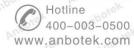


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Test Results (Above 1000MHz)

Test Mode:	802.11b Mo	de		Test	channel: Lov	west		
			I	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4824.00	40.82	34.13	6.61	34.09	47.47	74.00	-26.53	V
7236.00	34.55	37.14	7.74	34.51	44.92	74.00	-29.08	V
9648.00	32.95	39.35	9.26	34.80	46.76	74.00	-27.24	V
12060.00	Anborek	Aupo.	ek nbo	ek Anb	ore. Ans	74.00	potek A	V
14472.00	Anbotek	Aupo,	stek pr	potek (upote b	74.00	Anbotek	V
16884.00	ek * Anbot	St. Mu	otek	anborek	Aupor	74.00	Anbores	V
4824.00	39.41	34.13	6.61	34.09	46.06	74.00	-27.94	Н
7236.00	34.26	37.14	7.74	34.51	44.63	74.00	-29.37	H
9648.00	32.51	39.35	9.26	34.80	46.32	74.00	-27.68	H
12060.00	Anbotek	Pupos	*8/4 ***	otek p	Opolon V	74.00	Anbotek	Aupo.
14472.00	k * Anbore	N PULL	o. br	nbotek	Aupoten	74.00	Anbotek	A
16884.00	otek * Ant	otek	hupo otek	Anbotek	Aupore	74.00	Anborek	μН
3.0			A	verage Valu	ie	233		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4824.00	29.86	34.13	6.61	34.09	36.51	54.00	-17.49	V
7236.00	23.41	37.14	7.74	34.51	33.78	54.00	-20.22	V
9648.00	23.29	39.35	9.26	34.80	37.10	54.00	-16.90	V
12060.00	hotek	Anbotek	Anborr	, vupo,	ek Aupor	54.00	otek Ani	ote V
14472.00	Ann. *otek	Anbore	Ambo	rek an	ootek An	54.00	obořek	AUP OF
16884.00	* nbotel	Anbr	Sie Vug.	notek	Anbotek	54.00	anbotek	V
4824.00	28.92	34.13	6.61	34.09	35.57	54.00	-18.43	H
7236.00	22.83	37.14	7.74	34.51	33.20	54.00	-20.80	Н
9648.00	22.25	39.35	9.26	34.80	36.06	54.00	-17.94	otek H
12060.00	Anbe *otek	Anbotek	Anboro	iek "ul	otek Ant	54.00	hotek	nbolel
14472.00	And *	Anbo	Pupo	stek bu.	nbotek	54.00	botek	P/HC
16884.00	* * **	lek M	poles A	loo.	anbotek	54.00	Aur.	H,

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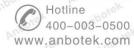


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Test Results (Above 1000MHz)

Test Mode:	802.11b Mo	de		Test	channel: Mid	ddle		
			F	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4874.00	39.78	34.35	6.67	34.09	46.71	74.00	-27.29	V
7311.00	34.56	37.21	7.77	34.53	45.01	74.00	-28.99	V
9748.00	33.93	39.45	9.33	34.80	47.91	74.00	-26.09	V
12185.00	Anthirek	Aupor	ek anboi	ek Anb	over Aug	74.00	potek p	V
14622.00	*hotek	Anbo	sek no	potek	upoter b	74.00	Aupotek	Anbo
17059.00	ek * Aupol	ek An	-otek	anborek	Aupor	74.00	Anborek	V
4874.00	40.20	34.35	6.67	34.09	47.13	74.00	-26.87	Н
7311.00	33.17	37.21	7.77	34.53	43.62	74.00	-30.38	H
9748.00	33.80	39.45	9.33	34.80	47.78	74.00	-26.22	H
12185.00	Anbotek	Pupos	*SK "VI	otek p	ipoten V	74.00	Anbotek	Vupor.
14622.00	k * Anbore	N PULL	o. vek	nbotek	Aupoten	74.00	Anbotek	An
17059.00	otek * Ant	otek	inbo otek	Anbotek	Anborb	74.00	Anbotek	μН
			A۱	verage Valu	ie	233		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4874.00	30.60	34.35	6.67	34.09	37.53	54.00	-16.47	V
7311.00	22.87	37.21	7.77	34.53	33.32	54.00	-20.68	V
9748.00	23.17	39.45	9.33	34.80	37.15	54.00	-16.85	V
12185.00	notek	Anborek	Aupo,	, upoi	ek Aupor	54.00	otek Pu	V
14622.00	An * bolek	Anbore	Anbo	rek no	potek Anl	54.00	botek	Aup Aug
17059.00	* sbotel	Anbr	Sien Vup.	-otek	Anbotek	54.00	abotek	N
4874.00	30.29	34.35	6.67	34.09	37.22	54.00	-16.78	Н
7311.00	22.25	37.21	7.77	34.53	32.70	54.00	-21.30	H
9748.00	23.51	39.45	9.33	34.80	37.49	54.00	-16.51	otek H
12185.00	Anbo *otek	Anbotek	Anboro	iek - ul	otek Anb	54.00	notek	hotek
14622.00	Anbe *	Anbo	Park Aupo	Tek VII.	inbotek I	54.00	hotek	P./HC
17059.00	* *	iek ar	potek bu	ipo,	anbotek	54.00	Motek	H,

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Test Results (Above 1000MHz)

Test Mode:	802.11b Mo	de		Test	channel: Hig	ghest		
			F	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4924.00	45.63	34.57	6.74	34.09	52.85	74.00	-21.15	A.u.
7386.00	35.44	37.29	7.80	34.55	45.98	74.00	-28.02	V
9848.00	37.37	39.55	9.41	34.81	51.52	74.00	-22.48	otek V
12310.00	Aupor*	Pr. Potek	Anboren	Ann	stek and	74.00	, ok	V
14772.00	Aup.	PU.	ek anboi	Sh. Wur	,et	74.00	DOLO N	V
17234.00	Ahboren	Num	otek no	potek	Wpo, b	74.00	Aupoten	V
4924.00	44.82	34.57	6.74	34.09	52.04	74.00	-21.96	An
7386.00	34.28	37.29	7.80	34.55	44.82	74.00	-29.18	Н
9848.00	33.51	39.55	9.41	34.81	47.66	74.00	-26.34	H
12310.00	Aupo. *	botek	Anboie.	Pun	tek anbo	74.00	LOK YOU	Hrod.
14772.00	Anbara ak	All bott	K Anbot	AUD.	rek	74.00	Por b	H
17234.00	A*bote	hun.	otek ant	ofer p	100 rek	74.00	Aupore	H
			Av	erage Valu	ie	1885		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4924.00	36.49	34.57	6.74	34.09	43.71	54.00	-10.29	V
7386.00	25.34	37.29	7.80	34.55	35.88	54.00	-18.12	Notes
9848.00	25.86	39.55	9.41	34.81	40.01	54.00	-13.99	V
12310.00	*Aupo	-ak	botek p	upoto	Arra otek	54.00	Pupo.	V
14772.00	otek * Wup	0,- b	hotek	Anbore	Aup	54.00	Pupo	V
17234.00	hotek* P	nbore	Pur Polek	Anbotek	Anbo	54.00	Anbo	V
4924.00	35.14	34.57	6.74	34.09	42.36	54.00	-11.64	H
7386.00	23.66	37.29	7.80	34.55	34.20	54.00	-19.80	AnbH
9848.00	22.76	39.55	9.41	34.81	36.91	54.00	-17.09	"He
12310.00	*Ambo	*ek	potek A	abo.	hotek	54.00	Yup.	Н
14772.00	rek * Anbe	.ek	abotek	Anbote	And	54.00	Aupo.	у Н
17234.00	potek * N	hpo,	Motek	Anborek	AUD	54.00	Aupor	νH

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20N) mode, and found the 802.11b mode is worse case the report only record this mode.
- 2. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.

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Radiated Band Edge:

is. bre.		- 16.	000	Na	-100,	Dr.	17.	3
Test Mode:	802.11b Mo	de		Test	channel: Lov	west		
			F	Peak Value	<u> </u>			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	52.74	29.15	3.41	34.01	51.29	74.00	-22.71	H
2400.00	62.12	29.16	3.43	34.01	60.70	74.00	-13.30	Н
2390.00	54.50	29.15	3.41	34.01	53.05	74.00	-20.95	V
2400.00	64.22	29.16	3.43	34.01	62.80	74.00	-11.20	Vodn
			Av	erage Valu	re			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	39.19	29.15	3.41	34.01	37.74	54.00	-16.26	H H
2400.00	47.60	29.16	3.43	34.01	46.18	54.00	-7.82	h ^{ootel}
2390.00	41.10	29.15	3.41	34.01	39.65	54.00	-14.35	AnViet
2400.00	48.81	29.16	3.43	34.01	47.39	54.00	-6.61	N/o

Test Mode:	802.11b Mo	de		Test	t channel: Hig	hest		
			F	Peak Value	;			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	53.87	29.28	3.53	34.03	52.65	74.00	-21.35	H
2500.00	49.35	29.30	3.56	34.03	48.18	74.00	-25.82	* H
2483.50	56.35	29.28	3.53	34.03	55.13	74.00	-18.87	otelV
2500.00	52.06	29.30	3.56	34.03	50.89	74.00	-23.11	V
711			Av	erage Valu	re			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	39.72	29.28	3.53	34.03	38.50	54.00	-15.50	H
2500.00	35.61	29.30	3.56	34.03	34.44	54.00	-19.56	H
2483.50	41.77	29.28	3.53	34.03	40.55	54.00	-13.45	Inpol A
2500.00	37.54	29.30	3.56	34.03	36.37	54.00	-17.63	V
DU		199	Do b	-V-	1003	Vien	184	2000

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

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Radiated Band Edge:

Test Mode:	802.11g Mo	de		Test	Test channel: Lowest				
			F	Peak Value	·				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	
2390.00	51.54	27.53	5.47	33.92	50.62	74.00	-23.38	H	
2400.00	60.52	27.55	5.49	29.93	63.63	74.00	-10.37	Н	
2390.00	53.22	27.53	5.47	33.92	52.30	74.00	-21.70	V	
2400.00	62.29	27.55	5.49	29.93	65.40	74.00	-8.60	nborV	
0.0			Av	erage Valu	ıe				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	
2390.00	38.34	27.53	5.47	33.92	37.42	54.00	-16.58	H	
2400.00	46.62	27.55	5.49	29.93	49.73	54.00	-4.27	hotek H	
2390.00	40.15	27.53	5.47	33.92	39.23	54.00	-14.77	Antore	
2400.00	47.74	27.55	5.49	29.93	50.85	54.00	-3.15	Vioc	

Test Mode:	802.11g Mod	е		Test	channel: High	nest		
			F	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	52.16	29.28	3.53	34.03	50.94	74.00	-23.06	H
2500.00	48.02	29.30	3.56	34.03	46.85	74.00	-27.15	K H
2483.50	54.39	29.28	3.53	34.03	53.17	74.00	-20.83	V
2500.00	50.51	29.30	3.56	34.03	49.34	74.00	-24.66	V
			Av	verage Valu	е			1011
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	38.68	29.28	3.53	34.03	37.46	54.00	-16.54	Н
2500.00	34.81	29.30	3.56	34.03	33.64	54.00	-20.36	H
2483.50	40.62	29.28	3.53	34.03	39.40	54.00	-14.60	Npotes 1
2500.00	36.68	29.30	3.56	34.03	35.51	54.00	-18.49	AVVOTO

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

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Radiated Band Edge:

Test Mode:	802.11n20 M	Mode		Tes	t channel: Lov	west		
			F	Peak Value	9			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	51.44	27.53	5.47	33.92	50.52	74.00	-23.48	H
2400.00	60.38	27.55	5.49	29.93	63.49	74.00	-10.51	Н
2390.00	53.10	27.53	5.47	33.92	52.18	74.00	-21.82	V
2400.00	62.12	27.55	5.49	29.93	65.23	74.00	-8.77	,nbo'V
			Av	erage Val	ue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	38.26	27.53	5.47	33.92	37.34	54.00	-16.66	H
2400.00	46.53	27.55	5.49	29.93	49.64	54.00	-4.36	h ^{ootel}
2390.00	40.06	27.53	5.47	33.92	39.14	54.00	-14.86	AnVie
2400.00	47.64	27.55	5.49	29.93	50.75	54.00	-3.25	No

Test Mode: 802.11n20 Mode					Test channel: Highest				
			F	Peak Value	:				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	
2483.50	52.00	29.28	3.53	34.03	50.78	74.00	-23.22	H	
2500.00	47.90	29.30	3.56	34.03	46.73	74.00	-27.27	ek H	
2483.50	54.22	29.28	3.53	34.03	53.00	74.00	-21.00	V	
2500.00	50.37	29.30	3.56	34.03	49.20	74.00	-24.80	V	
		7.17	Av	erage Valu	ie			1	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	
2483.50	38.59	29.28	3.53	34.03	37.37	54.00	-16.63	Н	
2500.00	34.73	29.30	3.56	34.03	33.56	54.00	-20.44	o ^{ter} H	
2483.50	40.52	29.28	3.53	34.03	39.30	54.00	-14.70	Vupoler	
2500.00	36.61	29.30	3.56	34.03	35.44	54.00	-18.56	P. Colo	

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

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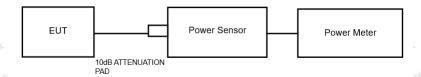
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5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)	Anbotek	Anbo	upotek
Test Limit	30dBm	Anborek	Anbountek	anbo

5.2. Test Setup



5.3. Test Procedure

- 1. The Transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the power value.
- 3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.4. Test Data

Test Item	:	Max. peak output power	Test Mode :	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature :	24 ℃
Test Result	:	PASS	Humidity :	55%RH

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Tes	st Channel	F	requenc (MHz)	y		Peak Co Power ((dBm)			imit Bm	Result	s
Anton	potek	Anbotek	KANDO	botek	TX 802	2.11b Mo	de k	anbotek	Anbotel	rok Anbo	botek
(CH01	Anbo	2412	Anbotek	Anbo	16.03	nbotek	Anbotel	30	PASS	Anbo
ek (CH06	k bu	2437	Allboy	stek bi	15.75	Anbotek	K	30	PASS	PL
pote (CH11	otek	2462	ek Ani	obotek	17.61	Aupor	otek A	30	PASS	ek
Ann	otek I	nbotek .ek	Anbo	botek	TX 802	2.11g Mo	de An	nbotek	Anbotek	ek Anbo	potek
(CH01	Anbo.	2412	Anbolek	Anbor	13.45	Anbotek	Anborek	30	PASS	Anboi
k (CH06	k Ai	2437	Arbote	otek bu	13.31	Anbotek	Anbo	30	PASS	PU
hote (CH11	stek	2462	ek Anb	nbotek	15.10	ak Anbor	otek bi	30	PASS	<i>Y</i> -
Amb	otek p	nbotek	Anbo	potek	TX 802.	11n(20) M	ode	nbotek	Anbotek	ek Anbo	otek
(CH01	Anbo	2412	Aupotek	Anbor	13.35	Anbotek	Anbotek	30	PASS	hote
rek (CH06	Pr.	2437	Aupore	tek An	13.32	Anbotek	Anbo	30	PASS	Ant
abote(CH11 Anbo	tek	2462	J.K. AUD	nbotek	15.02	Yupo,	Jek br	30	PASS	-
2.7		20.57	440		1.4	27.7	10,53		. 2257	- 111	

Note: For power test the duty cycle is 100% in continuous transmitting mode. Please see the plot of next page

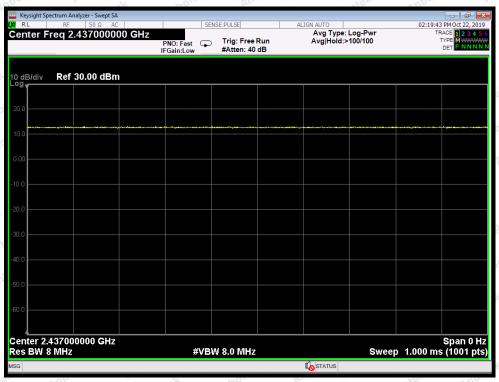


Report No.: SZAWW191017003-01

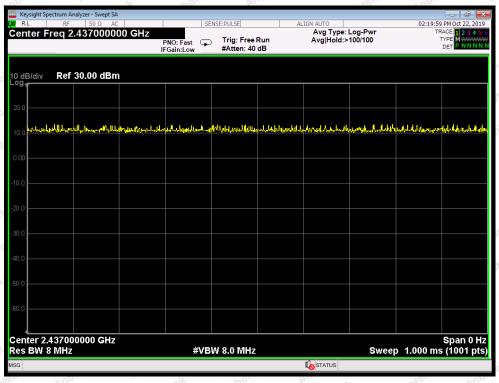
FCC ID: 2AETS-PPCPF01

Duty Cycle

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802.11b mode



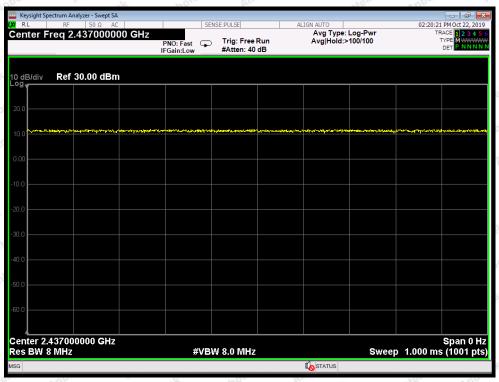
802.11g mode



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802.11n(HT20) mode



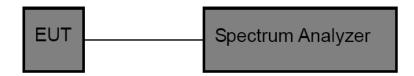
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6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(2)	Anbotes	Anthorek	Anbotek
Test Limit	>500kHz	Anbore.	Anu hotek	Anboile

6.2. Test Setup



6.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW= 100kHz, VBW≥3*RBW =300kHz

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

6.4. Test Data

Test Item : 6dB Bandwidth Test Mode : CH Low ~ CH High

Test Voltage : AC 120V, 60Hz for adapter Temperature : 24℃

Test Result : PASS PASS Humidity : 55%RH

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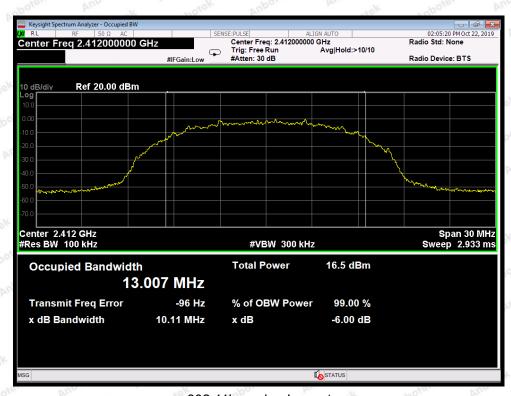
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Mode	Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Anbotek A	Low	2412	10.11	Anborek Anb	PASS
802.11b	Middle	2437	10.07	>500	PASS
rek Antotek	High	2462	10.10	kek Anbotek	PASS
potek Anbo	Low	2412	16.47	nbotek Anbote	PASS
802.11g	Middle	2437	16.47	>500	PASS
Anborek	High	2462	16.47	Anborek	PASS
ek Anbotek	Low	2412	17.59	rek Anbotek	PASS
802.11n20	Middle	2437	17.58	>500	PASS
Anbotek An	High	2462	17.58	Anbotek Anbo	PASS



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802.11b mode: Lowest

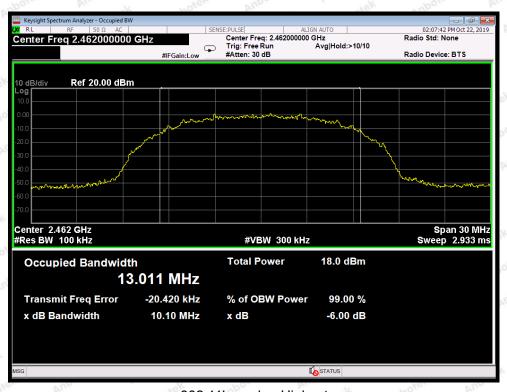


802.11b mode: Middle

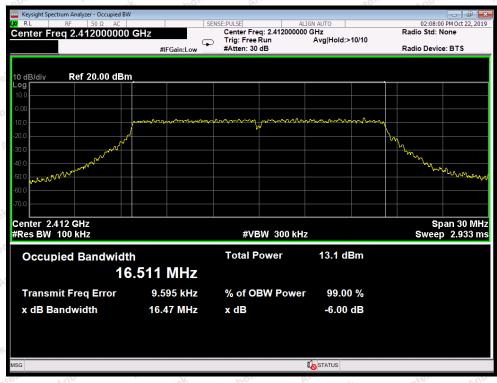
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802.11b mode: Highest



802.11g mode: Lowest

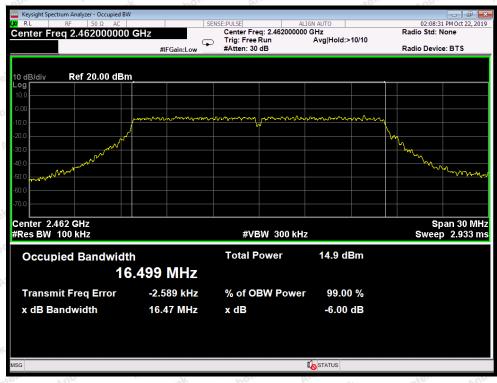
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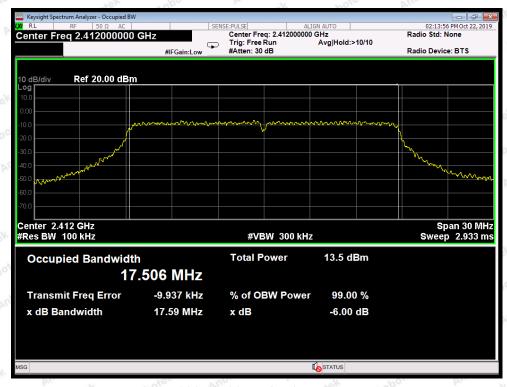
802.11g mode: Middle



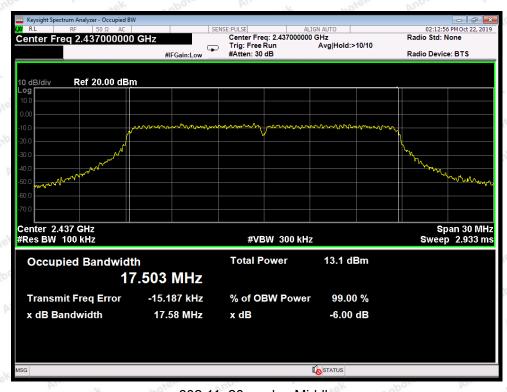
802.11g mode: Highest



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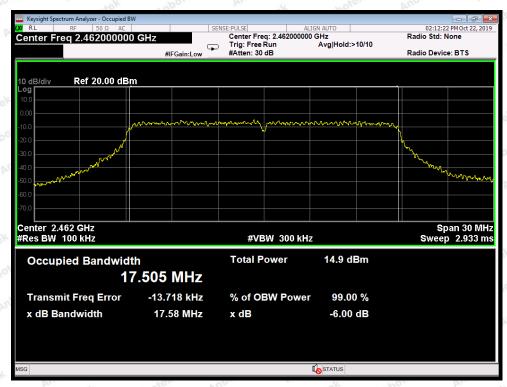
802.11n20 mode: Lowest



802.11n20 mode : Middle



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802.11n20 mode: Highest



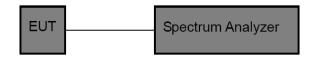
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7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section	pri abotek	Anboren	Anto	Anbotek
Test Limit	8dBm/3KHz	A. nbořek	Anbote	Ann	Anbo

7.2. Test Setup



7.3. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

7.4. Test Data

Test Item : Power Spectral Density Test Mode : CH Low \sim CH High Test Voltage : AC 120V, 60Hz for adapter Temperature : 24 $^{\circ}$ C Test Result : PASS Humidity : 55%RH

Mode	Channel	Frequency (MHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Results
tek anbot	Low	2412	-16.533	8.00	PASS
802.11b	Middle	2437	-16.181	8.00	PASS
	High	2462	-14.655	8.00	PASS
802.11g	Low	2412	-21.561	8.00	PASS
	Middle	2437	-22.038	8.00	PASS
	High	2462	-19.893	8.00	PASS MOO
Vey Vupo	Low	2412	-21.971	8.00	PASS
802.11n20	Middle	2437	-21.732	8.00	PASS
	High	2462	-20.329	8.00	PASS

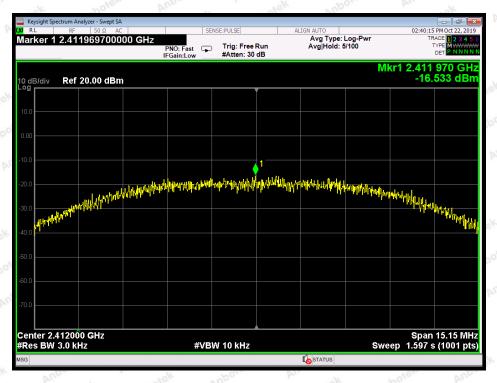
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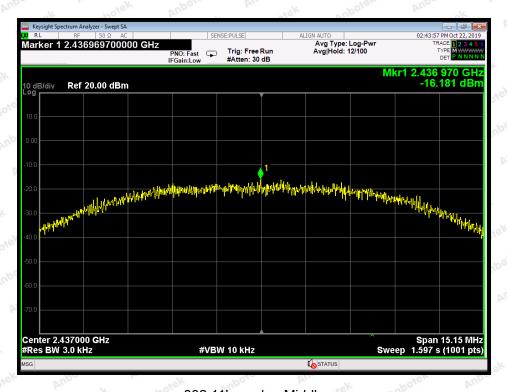


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802.11b mode: Lowest

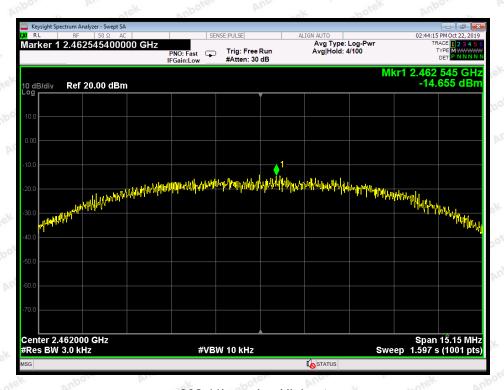


802.11b mode: Middle

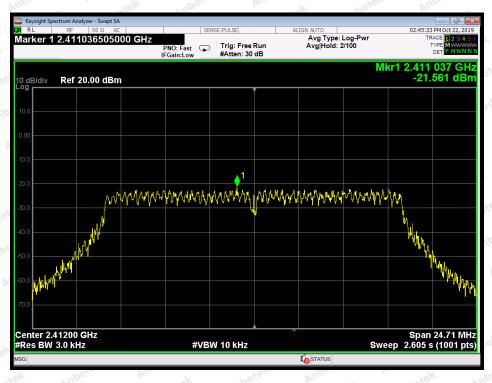


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802.11b mode: Highest

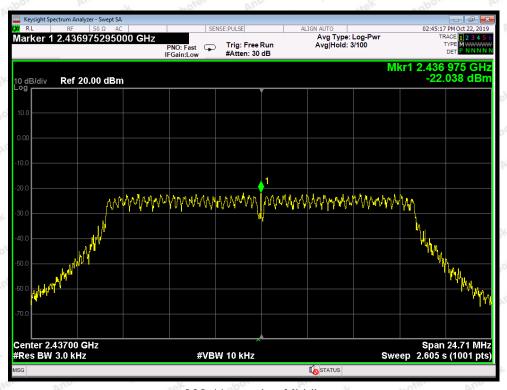


802.11g mode: Lowest



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802.11g mode: Middle

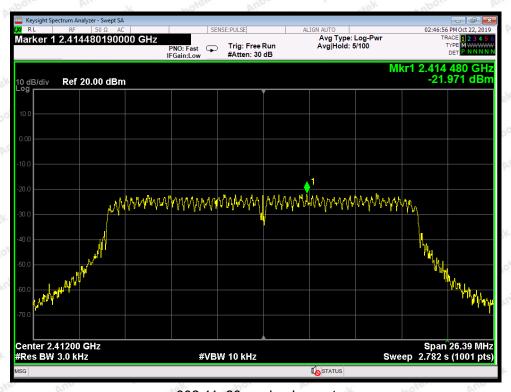


802.11g mode: Highest

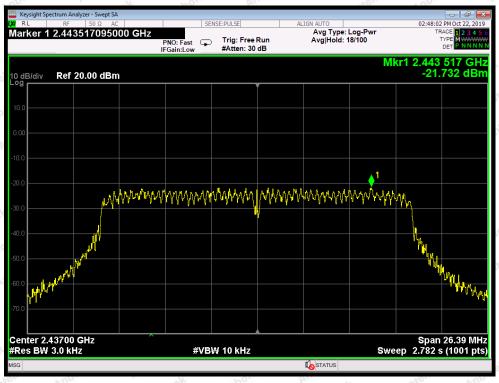


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802.11n20 mode : Lowest

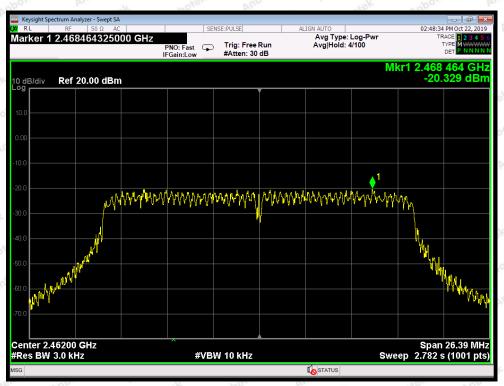


802.11n20 mode: Middle



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802.11n20 mode: Highest



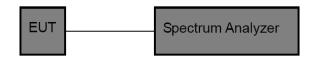
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8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
re-	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is
	produced by the intentional radiator shall be at least 20dB below that in the
Test Limit	100kHz bandwidth within the band that contains the highest level of the
	desired power, In addition, radiated emissions which fall in the restricted
	bands, as defined in §15.205(a), must also comply with the radiated emission
	limits specified in15.209(a).

8.2. Test Setup



8.3. Test Procedure

Using the following spectrum analyzer setting:

- 1. Set the RBW = 100KHz.
- 2. Set the VBW = 300KHz.
- 3. Sweep time = auto couple.
- 4. Detector function = peak.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.

8.4. Test Data

Band edge Test Item Test Mode CH Low ~ CH High Test Voltage AC 120V, 60Hz for adapter Temperature **24℃** Test Result **PASS** Humidity 55%RH

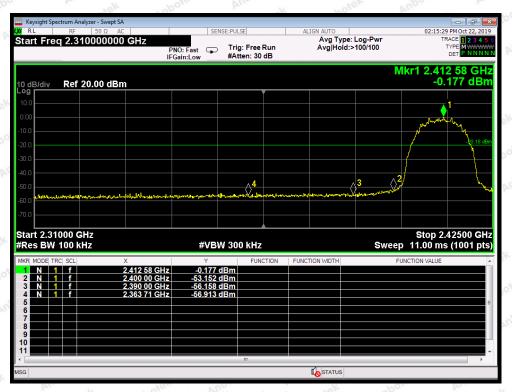
Mode	Frequency Band	Delta Peak to Band Emission	Limit	Results	
	(MHz)	(dBc)	(dBc)		
000 11h	2412	52.975	>20	PASS	
802.11b	2462	55.983	>20	PASS	
802.11g	2412	36.835	>20	PASS	
	2462	49.078	>20	PASS	
802.11n20	2412	36.306	>20	PASS	
	2462	47.192	>20	PASS	

Code: AB-RF-05-a

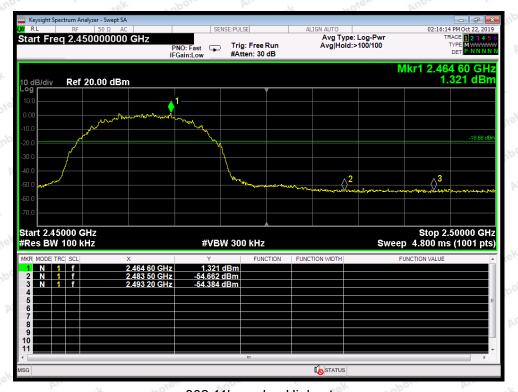
400-003-0500 www.anbotek.com



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802.11b mode: Lowest



802.11b mode: Highest



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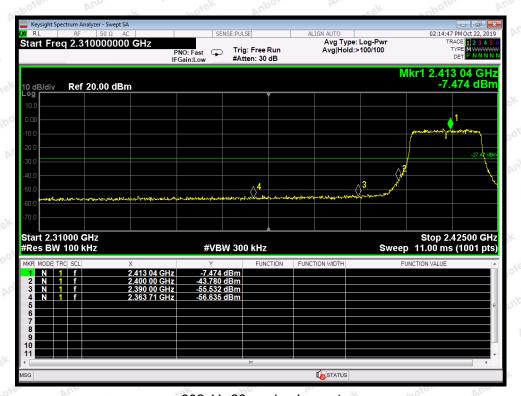
802.11g mode: Lowest



802.11g mode: Highest



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802.11n20 mode : Lowest



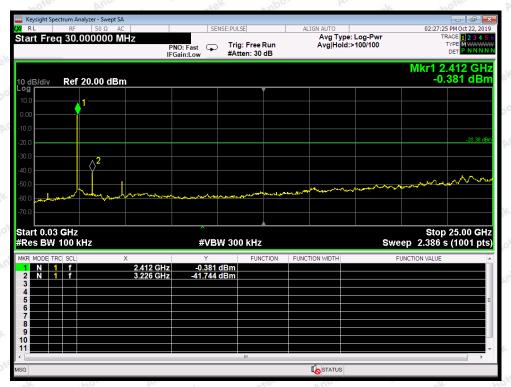
802.11n20 mode: Highest



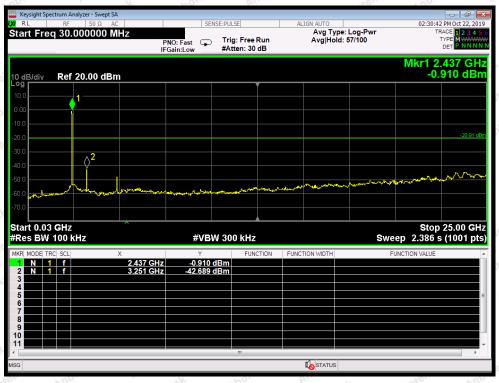
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Conducted Emission Method



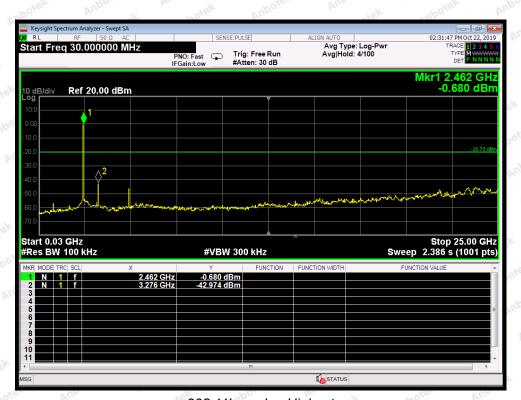
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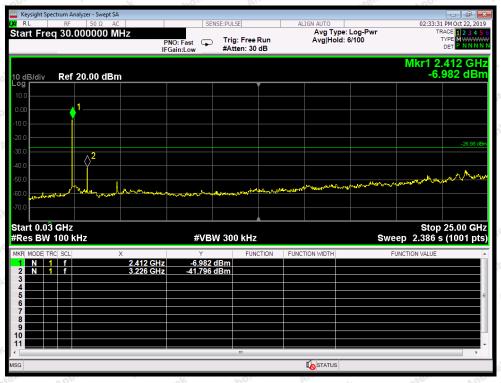
802.11b mode: Middle



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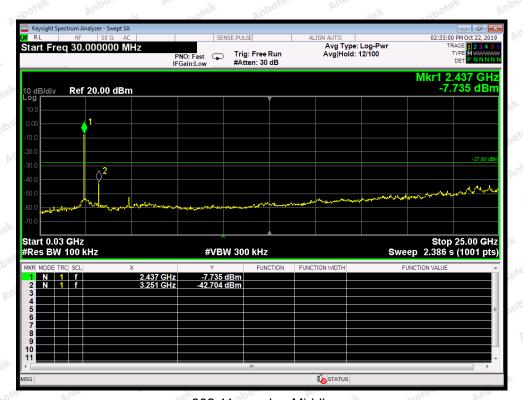
802.11b mode: Highest



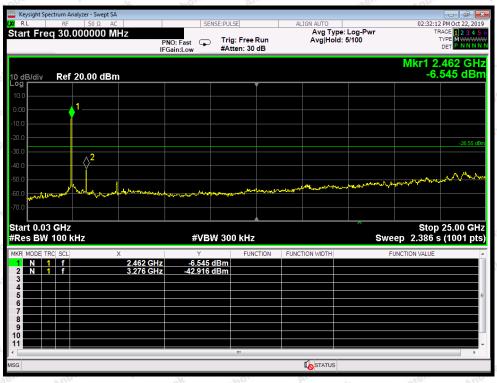
802.11g mode: Lowest



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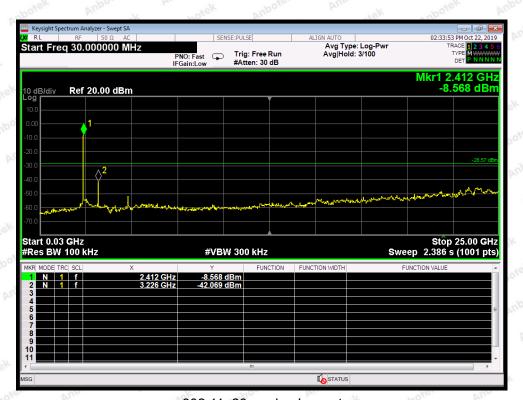
802.11g mode: Middle



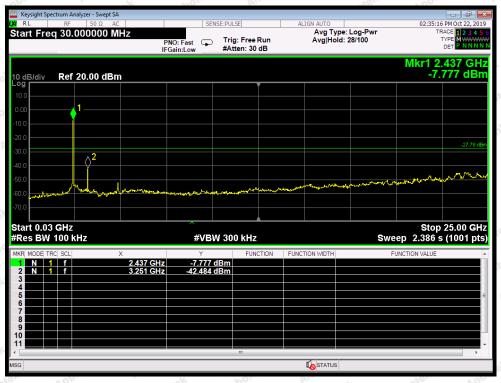
802.11g mode: Highest



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802.11n20 mode : Lowest

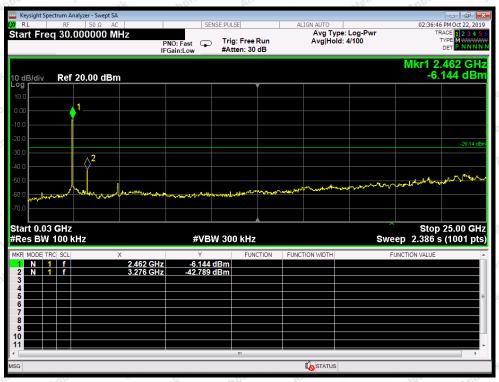


802.11n20 mode: Middle



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802.11n20 mode: Highest



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9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
	1) 15.203 requirement:
	An intentional radiator shall be designed to ensure that no antenna other than that
	furnished by the responsible party shall be used with the device. The use of a
	permanently attached antenna or of an antenna that uses a unique coupling to the
	intentional radiator, the manufacturer may design the unit so that a broken antenna
	can be replaced by the user, but the use of a standard antenna jack or electrical
Requirement	connector is prohibited.
	2) 15.247(c) (1)(i) requirement:
	Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed.
	Point-to-point operations may employ transmitting antennas with directional gain
	greater than 6dBi provided the maximum conducted output power of the intentional
	radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna
	exceeds 6 dBi.

9.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is -1.49 dBi It complies with the standard requirement.



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Power Line Conducted Emission Test



Photo of Radiation Emission Test





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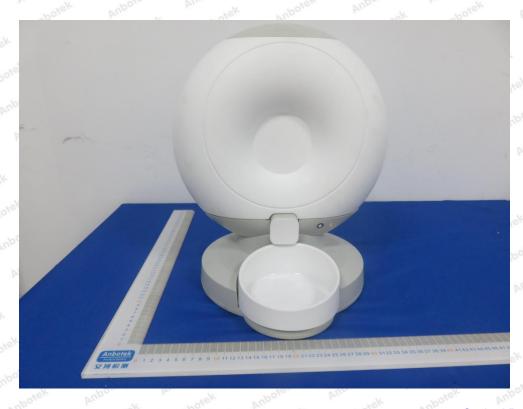


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APPENDIX II -- EXTERNAL PHOTOGRAPH



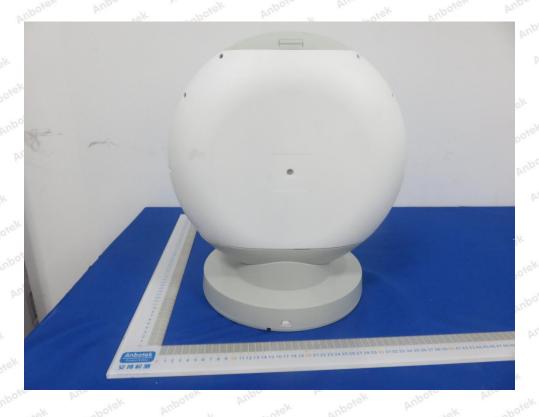


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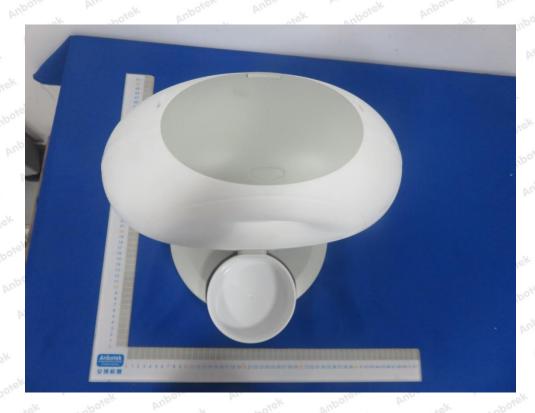
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Email: service@anbotek.com

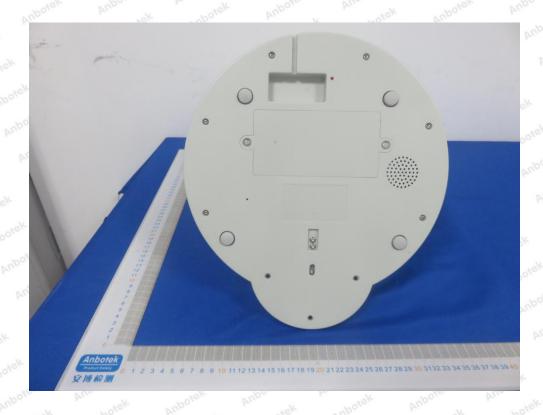
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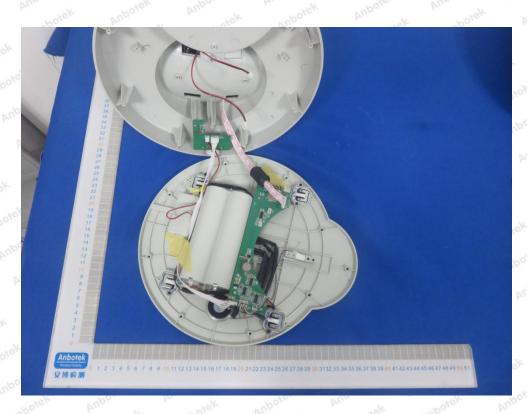


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APPENDIX III -- INTERNAL PHOTOGRAPH



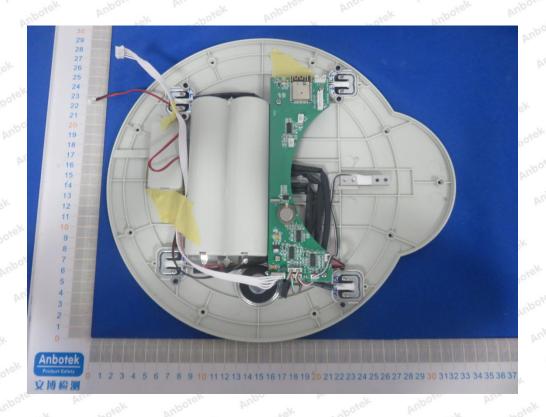


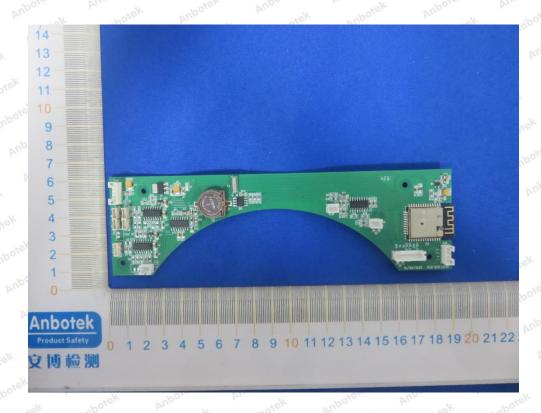
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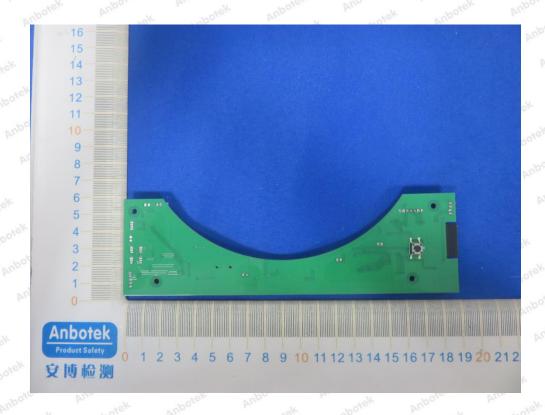


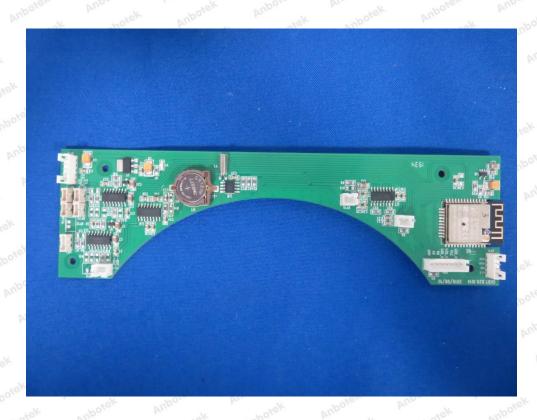




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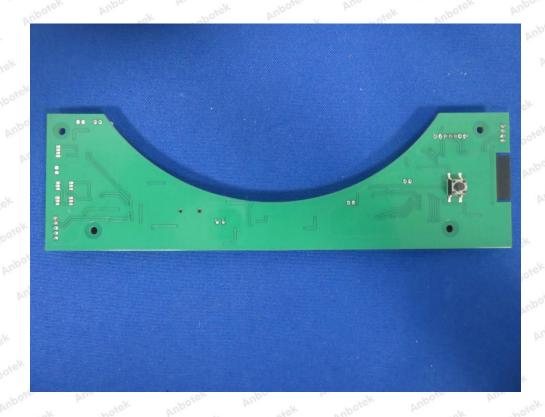






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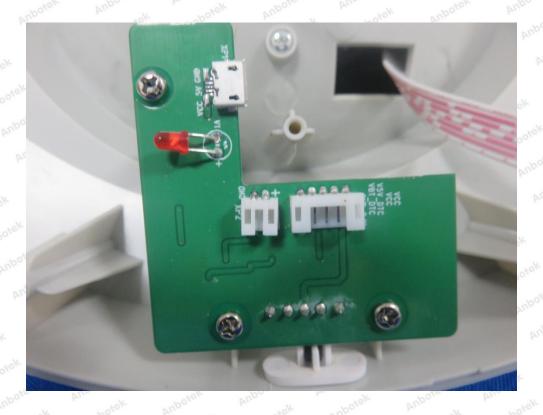


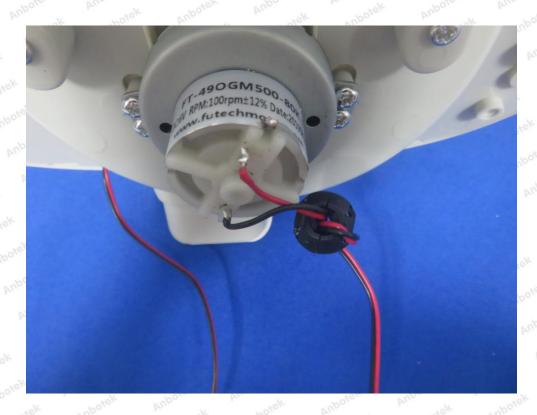




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End of Report --

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