

FCC TEST REPORT

For

Shenzhen Luckystar Technology Co., Ltd.

Tablet

Model No.: TBQG838B, TBQG738B

Prepared For : Shenzhen Luckystar Technology Co., Ltd.

Address : Block 1, Yujingtai Industrial Park, Huaxing Road, Dalang Street, Longhua

District, Shenzhen, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : SZAWW180517016-02

Date of Test : May 10~Jun. 06, 2018

Date of Report : Jun. 06, 2018



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TEST REPORT

Applicant : Shenzhen Luckystar Technology Co., Ltd.

Manufacturer : Shenzhen Luckystar Technology Co., Ltd.

Product Name : Tablet

Model No. : TBQG838B, TBQG738B

Trade Mark : ZEKI

Rating(s) : Input: DC 5V, 2A (via adapter input: AC 100-240V, 50/60Hz, 0.35A;

output: DC 5V, 2A; DC 3.8V, 3500mAh battery inside)

Test Standard(s) : FCC Part15 Subpart C 2017, Section 15.247

Test Method(s) : ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v04

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.

Prepared by

(Engineer / Oliay Yang)

Anbotek

(Supervisor / Calvin Liu)

Approved & Authorized Signer

(Manager / Tom Chen)



1. General Information

1.1. Client Information

Applicant	:	Shenzhen Luckystar Technology Co., Ltd.
Address	:	Block 1, Yujingtai Industrial Park, Huaxing Road, Dalang Street, Longhua
		District, Shenzhen, China
Manufacturer	:	Shenzhen Luckystar Technology Co., Ltd.
Address	:	Block 1, Yujingtai Industrial Park, Huaxing Road, Dalang Street, Longhua District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Tablet	Anbotek Anbotek Anbotek Anbotek
Model No.	:	TBQG838B, TBQG738B	Anbotek Anbotek Anbote
		(Note: The Samples are t	he same except the battery, TBQG838B is for
		3500mAh, TBQG738B is	s for 2800mAh, So we prepare "TBQG838B" for
		test only.)	hotek Anbotek Anbotek
Trade Mark	:	ZEKI	And abotek Anbotek Anbotek Anbotek
Test Power Supply	:	Pr	r / AC 240V, 60Hz for adapter
		DC 3.8V Battery inside	ek abatek Anbore Alli
		Operation Frequency:	802.11b/ g/ n(HT20) 2412-2462MHz
		Number of Channel:	11 Channels for 802.11b/ g/ n(HT20)
Product Description	:	Modulation Type:	802.11b CCK; 802.11g/n OFDM
1		Antenna Type:	PIFA Antenna
		Antenna Gain(Peak):	2 dBi Anbotek Anbotek Anbotek Anbotek

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 2.4GHz WiFi module.

1.3. Auxiliary Equipment Used During Test

Adapter:	:	M/N: K-T100502000U	anboter	Anbo	botek	Anb
		Input: 100-240~50-60Hz, 0.35A Max				
		Output: DC 5V, 2000mA				6



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.

0,	Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
Pr.	802.11b	1 to 11	k lootek	CCK	DBPSK	An 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)
N.	802.11b	1 to 11	1, 6, 11	CCK	DBPSK	atek 1.0 mbol
o	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

X.	EUT configure mode	Test Mode			
0	ek Aupote, Yup	Keeping TX+Charging Mode	Anbotek	Aupo	h.

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.

	U OAL		UN No.	124"	16, 45	
Mode		Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
c)	802.11b	1 to 11	1, 11	CCK	DBPSK	Ambo 1.0
	802.11g	1 to 11	An1, 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	otek 1 to 11 hote	1, 6, 11	CCK	DBPSK	otek 1.0 mbotel
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

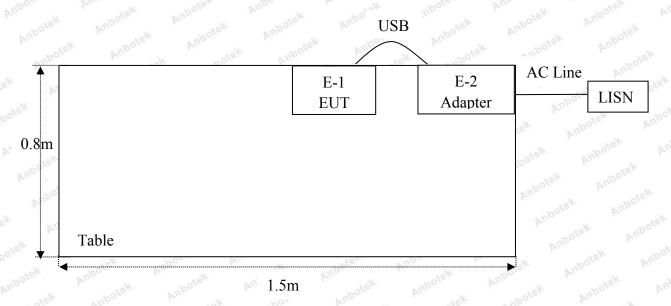
1.5. List of channels

	V 10 m		WO.	D'1.	60,3	~0~	3.7	
V	Channel	Freq.	Channel	Freq.	Channel	Freq.	Channel	Freq.
		(MHz)		(MHz)		(MHz)		(MHz)
0	01 Anb	2412	04	2427	07	2442	10	2457
	02 N	2417	05	2432	08	2447	pote 11 Ar	2462
×	03	2422	06	2437	09	2452	watel	Aribo

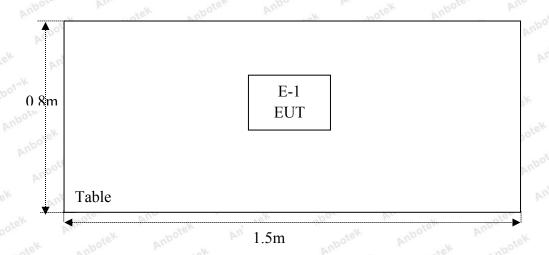


1.6. Description Of Test Setup

CE



RE





1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
tek 1. jbotek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2.0	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.pm	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	Spectrum Analysis	Agilent	N9038A	MY53227295	Nov. 17, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 17, 2017	1 Year
7,,,,	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Nov. 17, 2017	1 Year
8.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
10.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
11,,,,	Horn Antenna	Schewarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
16.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
17.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
18.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
19.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
20.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2017	1 Year
21.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2017	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
c c		Ur = 3.8 dB (Vertical)
		nbotek Anbotek Anbotek Anbotek Anbotek Anbote
Conduction Uncertainty	:	Uc = 3.4 dB

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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

Test Item	Result		
Antenna Requirement	PASS		
Conducted Emission	PASS		
Spurious Emission	PASS		
Conducted Peak Output Power	PASS		
6dB Occupied Bandwidth	PASS		
Power Spectral Density	PASS		
Band Edge	PASS		
	Antenna Requirement Conducted Emission Spurious Emission Conducted Peak Output Power 6dB Occupied Bandwidth Power Spectral Density		



3. Conducted Emission Test

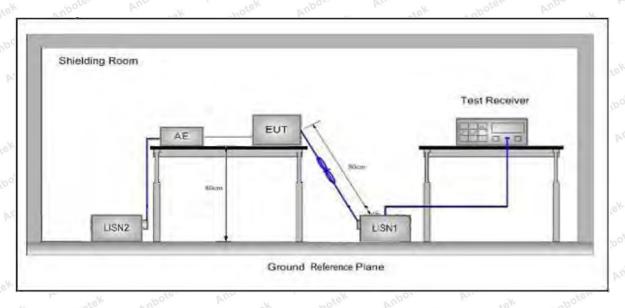
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.	207 Mark Andrew						
	Eraguanav	Maximum RF Line Voltage (dBuV)						
	Frequency	Quasi-peak Level	Average Level					
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *					
3	500kHz~5MHz	56	46					
	5MHz~30MHz	60	50° Am					

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(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

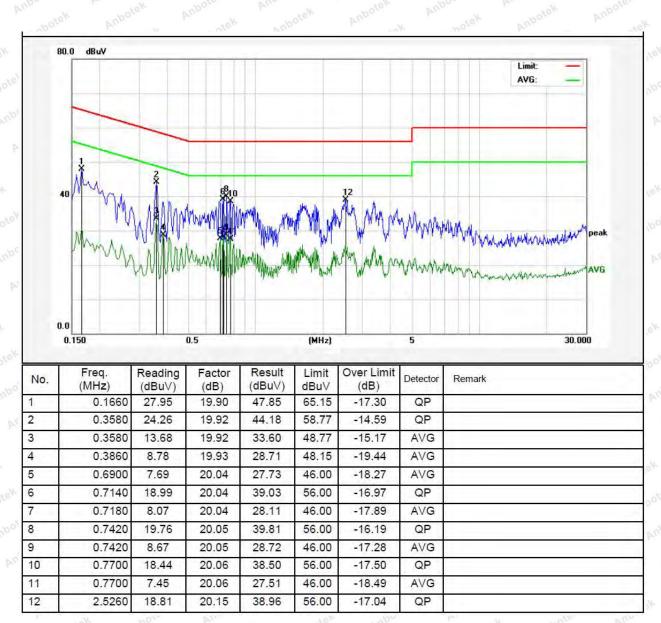
Please to see the following pages.



Test Site: 1# Shielded Room

Operating Condition: Keeping TX+ Charging Mode Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line

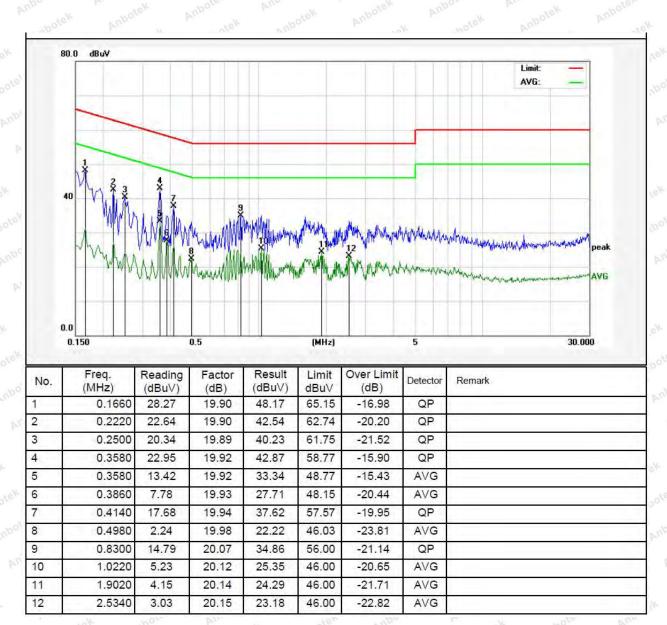




Test Site: 1# Shielded Room

Operating Condition: Keeping TX+ Charging Mode Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

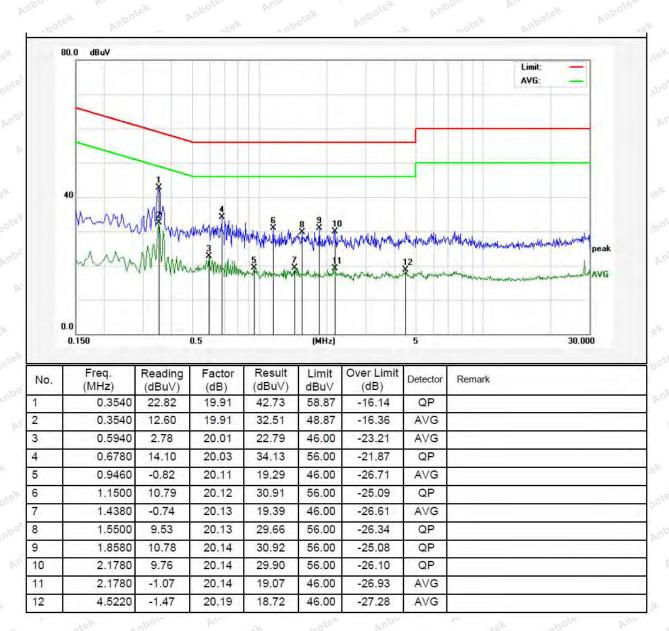




Test Site: 1# Shielded Room

Operating Condition: Keeping TX+ Charging Mode Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

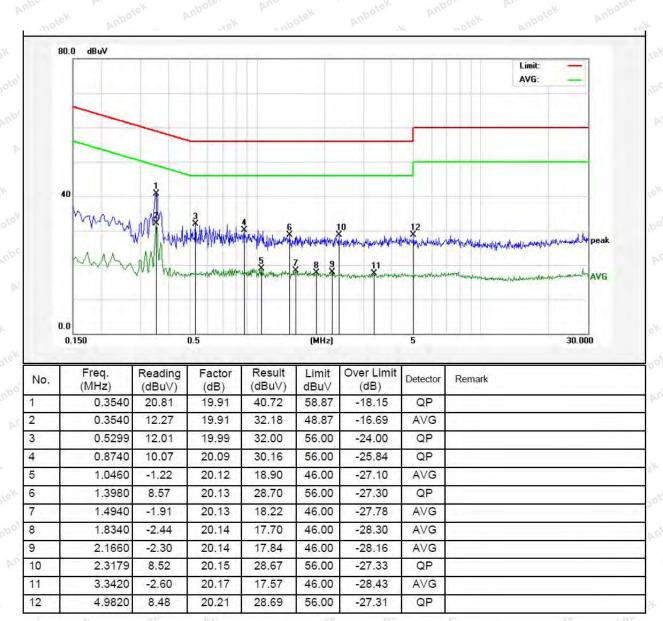




Test Site: 1# Shielded Room

Operating Condition: Keeping TX+ Charging Mode Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line





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	And	Anbotek I	Tupo, Tek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	hotek - Anbo	r Pur	300
	0.490MHz-1.705MHz	24000/F(kHz)	vupotek V	poter Am	motel 30 Ambs
	1.705MHz-30MHz	30	Anbatek	Anbore P	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3.4
	88MHz~216MHz	150	43.5	Quasi-peak	3 _{botek}
	216MHz~960MHz	200	46.0	Quasi-peak	kek 3 abotek
	960MHz~1000MHz	500	54.0	Quasi-peak	atek 3 nobo
	Above 1000MII-	500	54.0	Average	3
	Above 1000MHz	botek - Anbot	74.0	Peak	3

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

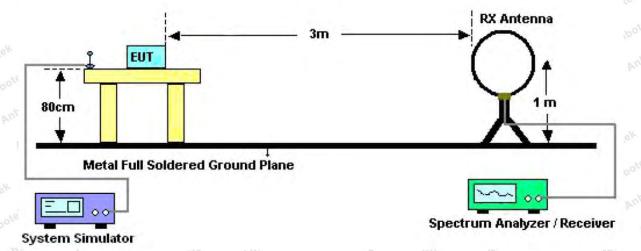


Figure 1. Below 30MHz

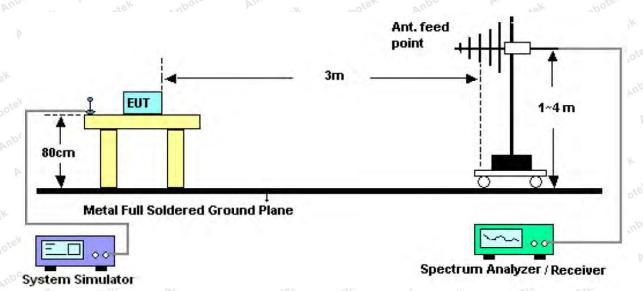


Figure 2. 30MHz to 1GHz

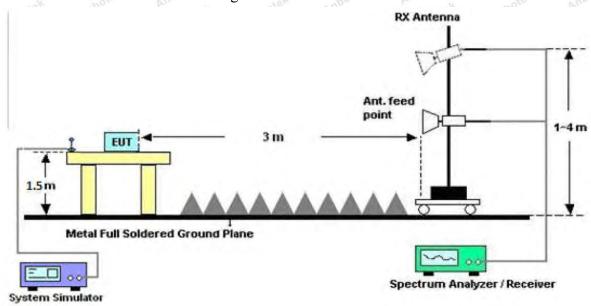


Figure 3. Above 1 GHz

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.

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.

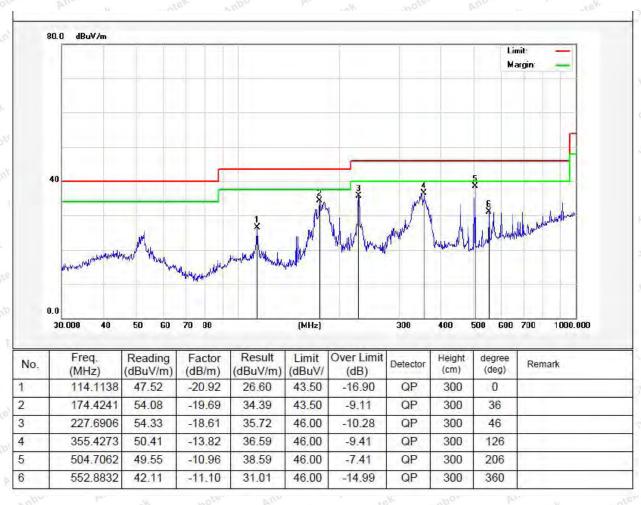


Test Results (30~1000MHz)

Job No.: SZAWW180517016-02 Temp.(°C)/Hum.(%RH): 24.3°C/55%RH

Standard: FCC PART 15C Power Source: DC 3.8V Battery inside

Test Mode: Keeping TX+Charging Mode Polarization: Horizontal



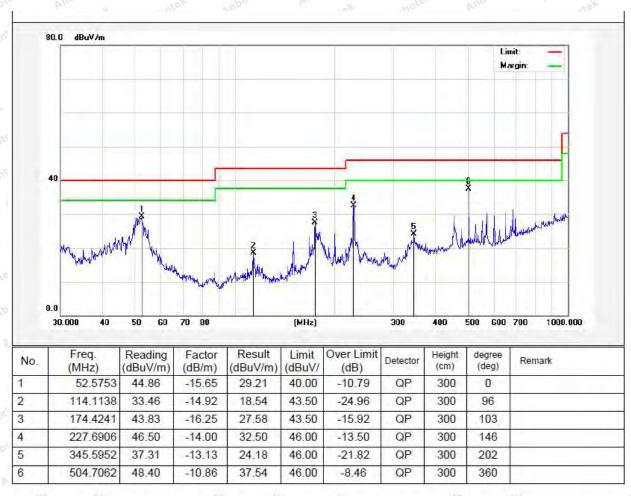


Test Results (30~1000MHz)

Job No.: SZAWW180517016-02 Temp.(°C)/Hum.(%RH): 24.3 °C/55%RH

Standard: FCC PART 15C Power Source: DC 3.8V Battery inside

Test Mode: Keeping TX+Charging Mode Polarization: Vertical





Test Results (Above 1000MHz)

Test Mode:	802.11b Mod	e	181	Test	channel: Low	est		
				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	39.94	34.13	6.61	34.09	46.59	74.00	-27.41	bote ^h V
7236.00	34.00	37.14	7.74	34.51	44.37	74.00	-29.63	Anboter
9648.00	32.55	39.35	9.26	34.80	46.36	74.00	-27.64	PV00
12060.00	*	otek A	Upor b	upotek	Anbotek	74.00	Anbotek	V
14472.00	notek*	nbotek	Aupor	An abotek	Auporen	74.00	Anbot	V
16884.00	*	Anbotek	Aupore	, upot	ek Anbot	74.00	otek an	ootek
4824.00	38.66	34.13	6.61	34.09	45.31	74.00	-28.69	AnbHek
7236.00	33.77	37.14	7.74	34.51	44.14	74.00	-29.86	^b H _O
9648.00	32.15	39.35	9.26	34.80	45.96	74.00	-28.04	Han
12060.00	crek *	hotek	Anbore	Ann	Anbotek	74.00	k whot	Н
14472.00	**	Anbotek	Anbote.	And	ek Anbote	74.00	tek an	o ^{teK} H
16884.00	* * * *	Anbotek	Anbore	rek al	otek Ant	74.00	atek	_{ND} oH ^k
FD.32	-03		A	verage Valu	e		The 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.
4824.00	29.05	34.13	6.61	34.09	35.70	54.00	-18.30	otekV
7236.00	22.87	37.14	7.74	34.51	33.24	54.00	-20.76	V
9648.00	22.91	39.35	9.26	34.80	36.72	54.00	-17.28	V
12060.00	*	ek p	potek Ar	poter	inbs hotek	54.00	Aupote.	V
14472.00	*	otek	nbotek	Aupoto.	Ann	54.00	Aupor	V
16884.00	poter * Ar	po otek	Anbotek	Anbotes	k hotel	54.00	Anbor	otek V
4824.00	28.22	34.13	6.61	34.09	34.87	54.00	-19.13	H
7236.00	22.36	37.14	7.74	34.51	32.73	54.00	-21.27	H
9648.00	21.90	39.35	9.26	34.80	35.71	54.00	-18.29	H
12060.00	* Anbo	*ek bu	nbotek	Anbotes	Anbo	54.00	Anbote	H
14472.00	otek * An	born tek	nbotek	Anbotek	And	54.00	Anbote	H H
16884.00	*****	Anbors	A. abotek	Anbote	V VIII	54.00	cek Vup.	Н
r	.V	VUPO	Anbotek	Anbotel	Allboten	p.	'O'. No.	16.



Test Results (Above 1000MHz)

Test Mode:	802.11b Mod	e		Test	Test channel: Middle					
				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	39.06	34.35	6.67	34.09	45.99	74.00	-28.01	boteV		
7311.00	34.11	37.21	7.77	34.53	44.56	74.00	-29.44	AnbVen		
9748.00	33.60	39.45	9.33	34.80	47.58	74.00	-26.42	V		
12185.00	*	otek A	upole P	no notek	Anbotek	74.00	Amabotek	V		
14622.00	otek*	nbotek	Anboten	Ambotek	Anbotek	74.00	k abot	e ^W V		
17059.00	no *k	Anbotek	Aupote.	An-	ek Anbot	74.00	rick by	ooteV		
4874.00	39.58	34.35	6.67	34.09	46.51	74.00	-27.49	N \mathbf{H}^{dN}		
7311.00	32.77	37.21	7.77 Anb	34.53	43.22	74.00	-30.78	Hot		
9748.00	33.50	39.45	9.33	34.80	47.48	74.00	-26.52	H		
12185.00	*	botek	Anbotek	Anbo	anbotek	74.00	Anb not	ъ₩ Н		
14622.00	*	nbotek	Anbotek	Pupo.	K Anbore	74.00	Pur	o ^{tel} H		
17059.00	Anba * sotek	Anbotek	Anbote.	Y NUD	otek Ant	74.00	rek ku	~oH ^k		
		B. 1	A	verage Valu	e	V	0.0			
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	29.93	34.35	6.67	34.09	36.86	54.00	-17.14	, tekV		
7311.00	22.43	37.21	7.77	34.53	32.88	54.00	-21.12	V		
9748.00	22.86	39.45	9.33	34.80	36.84	54.00	-17.16	V		
12185.00	***************************************	ek bun	octek Ar	potek	inport b	54.00	Anbotek	V		
14622.00	* *	* SK YU	nbotek	Anbotek	Anbo	54.00	Anboten	V		
17059.00	otek * Ar	por otek	Anbotek	Anbotek	Anbu	54.00	Anbote	V		
4874.00	29.71	34.35	6.67	34.09	36.64	54.00	-17.36	H		
7311.00	21.86	37.21	7.77	34.53	32.31	54.00	-21.69	H,		
9748.00	23.22	39.45	9.33	34.80	37.20	54.00	-16.80	Anbo.		
12185.00	*	An'	notek	Anbotek	Anbore	54.00	Anbotek	H		
14622.00	* * M	ooks.	abotek	Anbotek	Anbore	54.00	Anbote	H		
17059.00	*	anbote	BULL	Anborel	Aupor	54.00	ek Aup	Н		



Test Results (Above 1000MHz)

Test Mode:	802.11b Mod	e		Test	channel: High	est	**	200
				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	44.38	34.57	6.74	34.09	51.60	74.00	-22.40	botek
7386.00	34.65	37.29	7.80	34.55	45.19	74.00	-28.81	Anb Vek
9848.00	36.80	39.55	9.41	34.81	50.95	74.00	-23.05	Voo
12310.00	*	stek a	abotek A	upor	Abotek abotek	74.00	Anbr	V
14772.00	*	otek	Anbotek	Aupor	Pur Potek	74.00	Anbo	V V
17234.00	upotes *	upo	Anbotek	Anbore	ok bok	74.00	Pupo	V
4924.00	43.76	34.57	6.74	34.09	50.98	74.00	-23.02	HW
7386.00	33.59	37.29	7.80	34.55	44.13	74.00	-29.87	H H
9848.00	32.99	39.55	9.41	34.81	47.14	74.00	-26.86	PADO.
12310.00	lek * Amb	Sex b	loo. b	- abotek	Anboten	74.00	anbotek	$H^{\mathbb{A}^{r}}$
14772.00	wotel *	upotek.	Anbor	Al abotek	Aupoter	74.00	Anbot	Н
17234.00	*	Anbotek	Anbo	, aboti	K Aupore	74.00	tek an	o ^{tek} H
100	~~	36	A	verage Valu	e			
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	35.33	34.57	6.74	34.09	42.55	54.00	-11.45	V
7386.00	24.57	37.29	7.80	34.55	35.11	54.00	-18.89	, eVV
9848.00	25.31	39.55	9.41	34.81	39.46	54.00	-14.54	V
12310.00	Ani*	Aupo	ek 5000	lek Mup	Ore. Nun	54.00	botek	V
14772.00	*	Anbo	-tek	botek	inpote. A	54.00	Anbotek	V
17234.00	ek * Anbo	lek Vu	o. Is	Anbotek	Anboter	54.00	Anbotek	V
4924.00	34.15	34.57	6.74	34.09	41.37	54.00	-12.63	Н
7386.00	22.99	37.29	7.80	34.55	33.53	54.00	-20.47	o ^{tek} H
9848.00	22.26	39.55	9.41	34.81	36.41	54.00	-17.59	Hody
12310.00	* * otek	Anboth	Sk Aupo	rek Ann	-botek A	54.00	or stek	H _{fe}
14772.00	*	ek Anl	otek bu	pote p	hotek	54.00	Aupor Otek	H
17234.00	*	otek	nbotek	Aupolo	Anuabotek	54.00	Anbo.	H

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.



Radiated Band Edge:

Test Mode:	802.11b Mod	e		Test	channel: Low	est		
				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	52.01	29.15	3.41	34.01	50.56	74.00	-23.44	botek H
2400.00	61.15	29.16	3.43	34.01	59.73	74.00	-14.27	AnbHek
2390.00	53.72	29.15	3.41	34.01	52.27	74.00	-21.73	Voot
2400.00	63.04	29.16	3.43	34.01	61.62	74.00	-12.38	Vpa
			A	verage Valu	ie			
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	38.67	29.15	3.41 And	34.01	37.22	54.00	-16.78	Hote
2400.00	47.00	29.16	3.43	34.01	45.58	54.00	-8.42	H
2390.00	40.52	29.15	3.41	34.01	39.07	54.00	-14.93	V
2400.00	48.15	29.16	3.43	34.01	46.73	54.00	-7.27	otelV

Test Mode:	802.11b Mod	e		Tes	t channel: High	est		
				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	52.82	29.28	3.53	34.03	51.60	74.00	-22.40	\mathbf{H}^{k}
2500.00	48.53	29.30	3.56	34.03	47.36	74.00	-26.64	An Hote
2483.50	55.16	29.28	3.53	34.03	53.94	74.00	-20.06	Valo
2500.00	51.11	29.30	3.56	34.03	49.94	74.00	-24.06	6 V
			A	verage 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.
2483.50	39.09	29.28	3.53	34.03	37.87	54.00	-16.13	H
2500.00	35.12	29.30	3.56	34.03	33.95	54.00	-20.05	H
2483.50	41.07	29.28	3.53	34.03	39.85	54.00	-14.15	v V
2500.00	37.02	29.30	3.56	34.03	35.85	54.00	-18.15	V

Remark:

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



Radiated Band Edge:

Test Mode:	802.11g Mode	e		Test	channel: Low	est		
				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	50.95	27.53	5.47	33.92	50.03	74.00	-23.97	botek H
2400.00	59.73	27.55	5.49	29.93	62.84	74.00	-11.16	AnbHek
2390.00	52.58	27.53	5.47	33.92	51.66	74.00	-22.34	Voote
2400.00	61.34	27.55	5.49	29.93	64.45	74.00	-9.55	VAND
			A	verage Valu	e			
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	37.91	27.53	5.47	33.92	36.99	54.00	-17.01	Hotel
2400.00	46.13	27.55	5.49	29.93	49.24	54.00	-4.76	H
2390.00	39.68	27.53	5.47	33.92	38.76	54.00	-15.24	v V
2400.00	47.20	27.55	5.49	29.93	50.31	54.00	-3.69	oteVV

Test Mode: 8	302.11g Mode			Test	channel: Highe	est		
				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	51.31	29.28	3.53	34.03	50.09	74.00	-23.91	nboH ^k
2500.00	47.36	29.30	3.56	34.03	46.19	74.00	-27.81	Hote
2483.50	53.42	29.28	3.53	34.03	52.20	74.00	-21.80	V
2500.00	49.74	29.30	3.56	34.03	48.57	74.00	-25.43	V
			A	verage Valu	ie			
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	38.17	29.28	3.53	34.03	36.95	54.00	-17.05	And
2500.00	34.41	29.30	3.56	34.03	33.24	54.00	-20.76	H
2483.50	40.06	29.28	3.53	34.03	38.84	54.00	-15.16	V
2500.00	36.26	29.30	3.56	34.03	35.09	54.00	-18.91	V

Remark:

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



Radiated Band Edge:

Test Mode:	802.11n20 M	ode		Test	channel: Low	est		
]	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	50.70	27.53	5.47	33.92	49.78	74.00	-24.22	botek H
2400.00	59.40	27.55	5.49	29.93	62.51	74.00	-11.49	AnbHek
2390.00	52.32	27.53	5.47	33.92	51.40	74.00	-22.60	Voote
2400.00	60.94	27.55	5.49	29.93	64.05	74.00	-9.95	VAND
			A	verage Valu	ie			
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	37.74	27.53	5.47	33.92	36.82	54.00	-17.18	Hotel
2400.00	45.93	27.55	5.49	29.93	49.04	54.00	-4.96	H
2390.00	39.48	27.53	5.47	33.92	38.56	54.00	-15.44	w V
2400.00	46.98	27.55	5.49	29.93	50.09	54.00	-3.91	V

Test Mode: 8	302.11n20 Mod	de		Test	channel: Highe	est		
				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	50.95	29.28	3.53	34.03	49.73	74.00	-24.27	nbo'H'
2500.00	47.08	29.30	3.56	34.03	45.91	74.00	-28.09	Hote
2483.50	53.02	29.28	3.53	34.03	51.80	74.00	-22.20	V
2500.00	49.42	29.30	3.56	34.03	48.25	74.00	-25.75	V
			A	verage Valu	ie			
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	37.96	29.28	3.53	34.03	36.74	54.00	-17.26	And H
2500.00	34.24	29.30	3.56	34.03	33.07	54.00	-20.93	\mathbf{H}^{n}
2483.50	39.82	29.28	3.53	34.03	38.60	54.00	-15.40	V
2500.00	36.08	29.30	3.56	34.03	34.91	54.00	-19.09	V

Remark:

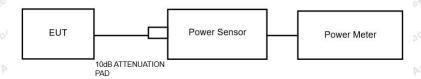
1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15	C Section 15.2	247 (b)(3)	And	Anbotek	Anbore	Vi.
Test Limit	30dBm	A. anbotek	Anbote.	And	Anbotek	Anbor	P

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	:	DC 3.8V Battery inside	Temperature :	24°C
Test Result	:	PASS	Humidity :	55%RH
				101

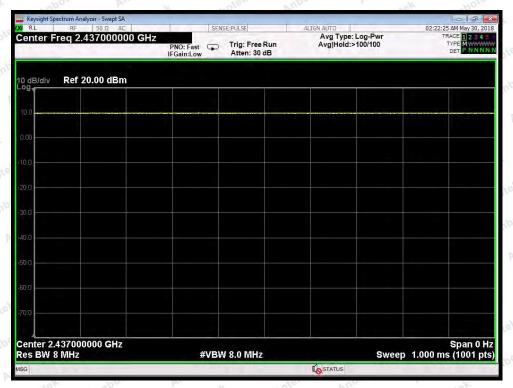


rote.	Up FOR	Work British	ater and	No.
Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power (PK) (dBm)	Limit dBm	Results
ootek Anbo	rek abotek	TX 802.11b Mode	Aupo	hotek p
CH01	2412	8.28	30	PASS
CH06	2437	8.16	30 Marie	PASS
CH11	2462	8.04	30 August 30	PASS
Anbotek	Anbos Ar.	TX 802.11g Mode	anbotek Anb	or Au
CH01	2412	Antotek Anto 7.55	30	PASS
CH06	2437	7.36	30	PASS
CH11	2462	And Andrew Andrew	30 botek	PASS
Annatek	Anbotek Anbote	TX 802.11n(20) Mode	bo tek nbotel	Anbore
CH01	2412	7.02 Anbotell	30	PASS
CH06	2437	6.83	30	PASS
CH11	2462	6.17	30	PASS

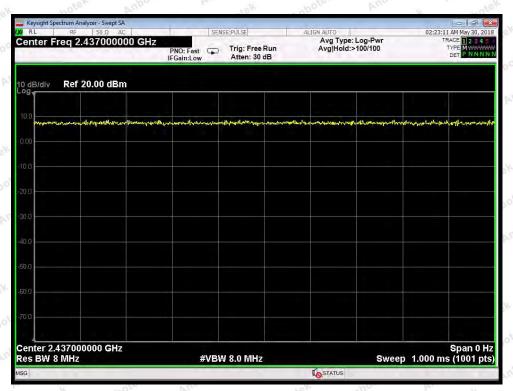
Note: For power test the duty cycle is 100% in continuous transmitting mode. Please see the plot of next page



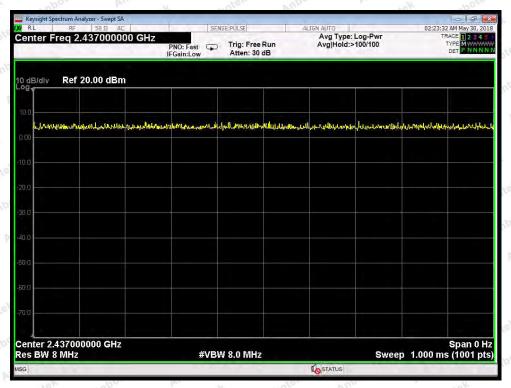
Duty Cycle



802.11b mode



802.11g mode



802.11n(HT20) mode

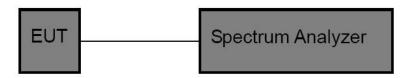


6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15	C Section 15.2	447 (a)(2)	Andhotek	Anbotek	Anbo	p.
Test Limit	>500kHz	Anbotek	Anboro	Am	Anbotek	Anboatel	k Pr

6.2. Test Setup



6.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. 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\geggre3*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.

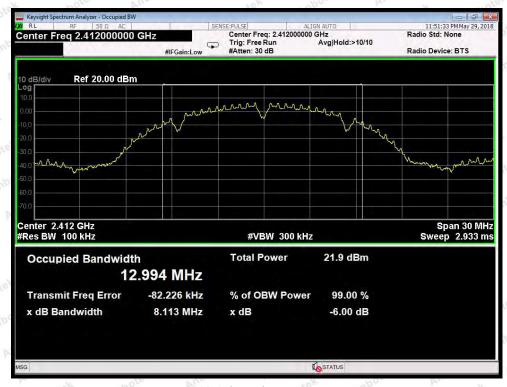
6.4. Test Data

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

Test Voltage : DC 3.8V Battery inside Temperature : 24°C

Test Result : PASS Humidity : 55%RH

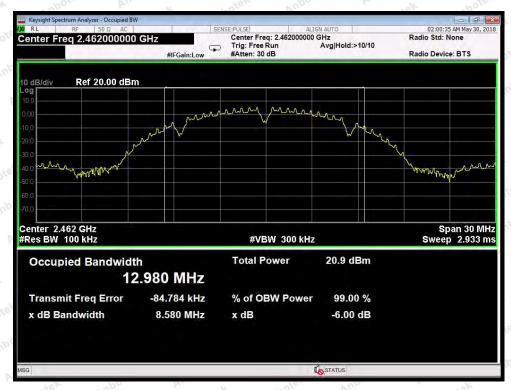
Mode Channel		Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results	
Anboten Ar	Low	2412	8.113	Anbotek Anb	PASS	
802.11b	Middle	2437	8.585	>500	PASS	
Anboten	High	2462	8.580	Anbotek	PASS	
ak Anbores	Low	2412	16.38	sk Yupoter	PASS	
802.11g	Middle	2437	16.38	>500	PASS	
Anbotek An	High	2462	16.40	Anbotek Anbo	PASS	
Anbotek	Low	2412	17.59	Anbotek A	PASS	
802.11n20	Middle	2437	17.58	>500	PASS	
k Aupotek	High	2462	17.59	K Anbotek	PASS	



802.11b mode: Lowest



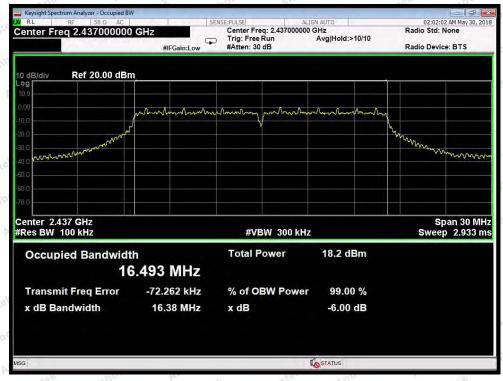
802.11b mode: Middle



802.11b mode: Highest



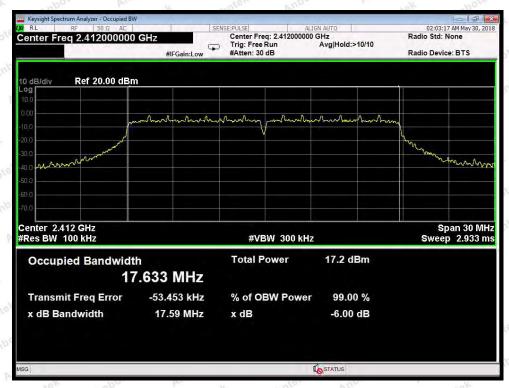
802.11g mode: Lowest



802.11g mode: Middle



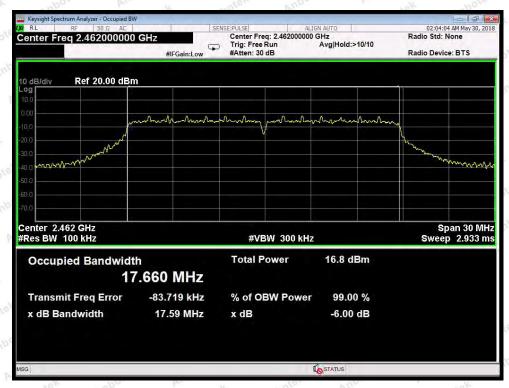
802.11g mode: Highest



802.11n20 mode: Lowest



802.11n20 mode: Middle



802.11n20 mode: Highest

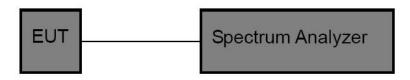


7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C	Section 15.2	247 (e)	Ann	Anbotek	Anbo	pa.
Test Limit	8dBm/3KHz	Anbotek	Anboro	Am	Anbotek	Anbo	P

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 ~ CH High
Test Voltage	:	DC 3.8V Battery inside	Temperature	:	24°C
Test Result	:	PASS	Humidity	:	55%RH

Mode Channel		Frequency	PPSD	Limit	Results
		(MHz) (dBm/KHz)		(dBm/KHz)	Results
lek Aupote	Low	2412	-15.116	8.00	PASS
802.11b	Middle	2437	-15.481	8.00	PASS
Anbotek A	High	2462	-16.481	8.00	PASS
Anbotek	Low	2412	-19.163	8.00	PASS
802.11g	Middle	2437	-19.802	8.00	PASS
ek Anboten	High	2462	-20.482	8.00	PASS
botek Anbo	Low	2412	-23.088	8.00	PASS
802.11n20	Middle	2437	-21.741	8.00	PASS
Anbotek	High	2462	-23.585	8.00	PASS



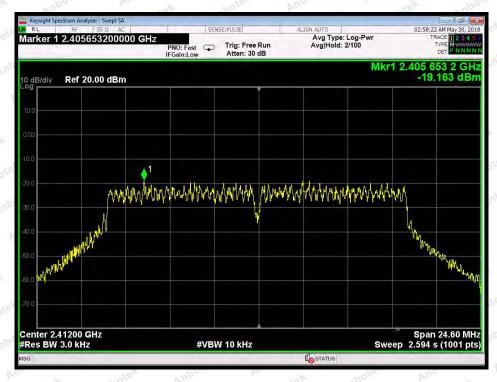
802.11b mode: Lowest



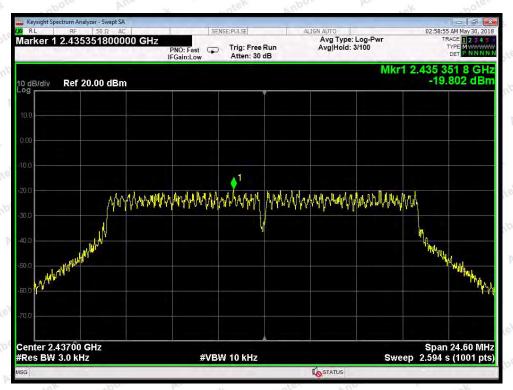
802.11b mode: Middle



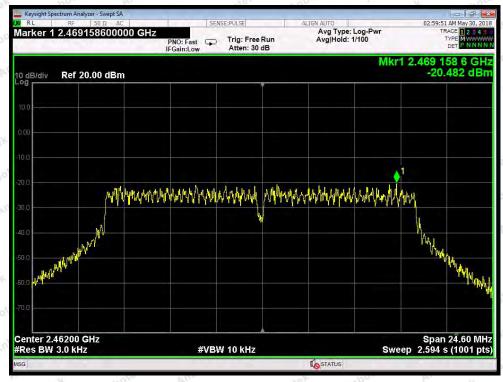
802.11b mode: Highest



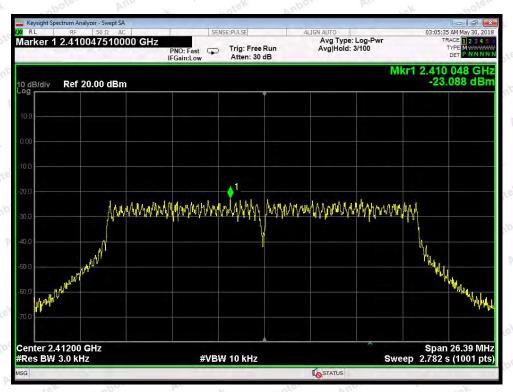
802.11g mode: Lowest



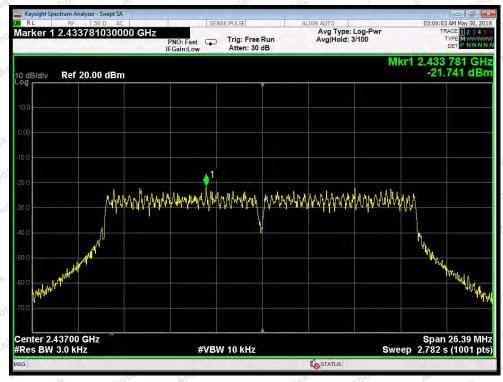
802.11g mode: Middle



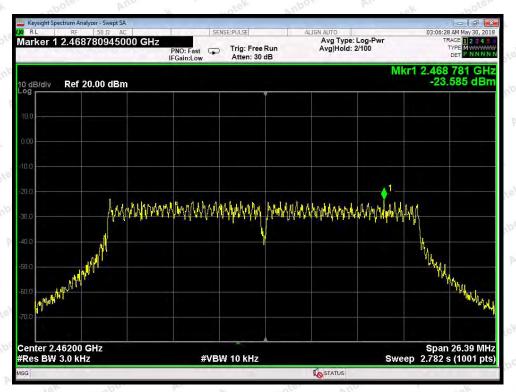
802.11g mode: Highest



802.11n20 mode: Lowest



802.11n20 mode: Middle



802.11n20 mode: Highest

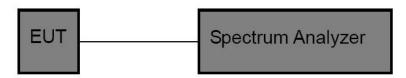


8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	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 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

Mada	Frequency Band	Delta Peak to Band Emission	Limit	D14	
Mode (MHz)		(dBc)	(dBc)	Results	
902 11k	2412	50.323	>20	PASS	
802.11b	2462	58.998	>20	PASS	
002.11-	2412	35.798	>20	PASS	
802.11g	2462	46.490	>20	PASS	
802.11n20	2412	35.133	>20	PASS	
602.11H20	2462	44.298	>20	PASS	



802.11b mode: Lowest



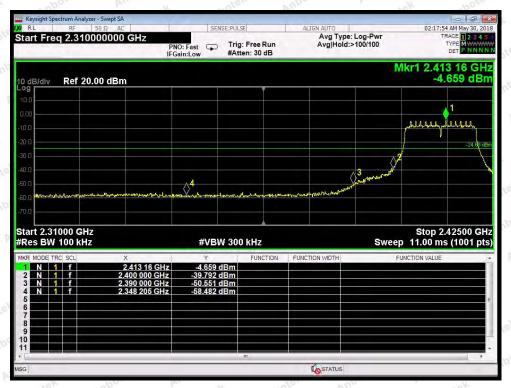
802.11b mode: Highest



802.11g mode: Lowest



802.11g mode: Highest



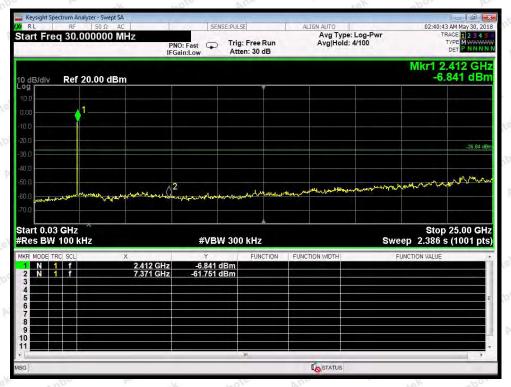
802.11n20 mode: Lowest



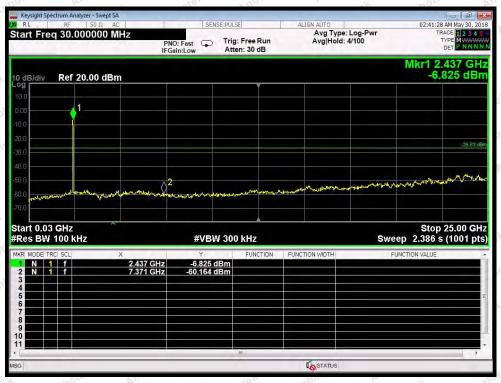
802.11n20 mode: Highest



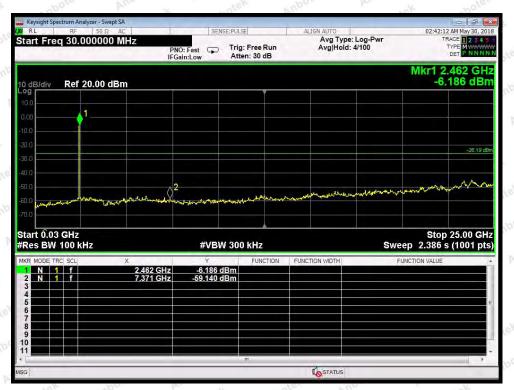
Conducted Emission Method



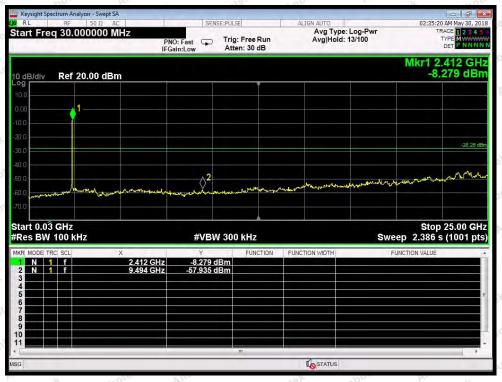
802.11b mode: Lowest



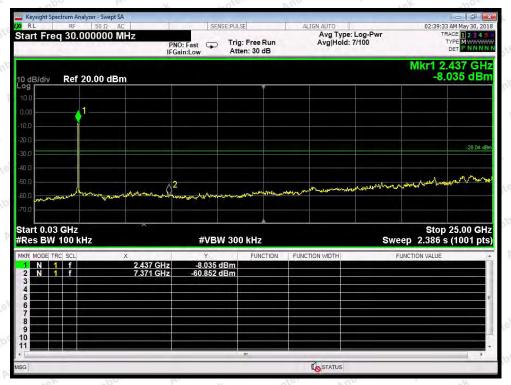
802.11b mode: Middle



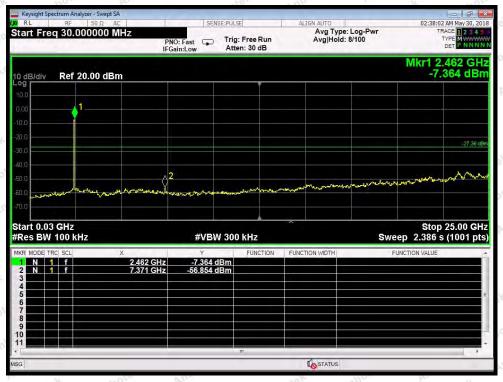
802.11b mode: Highest



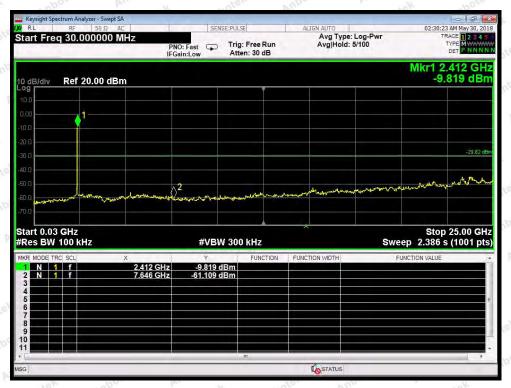
802.11g mode: Lowest



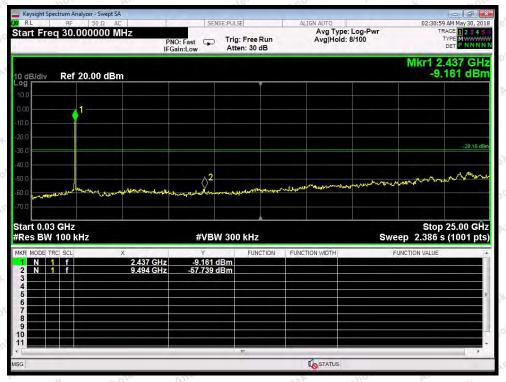
802.11g mode: Middle



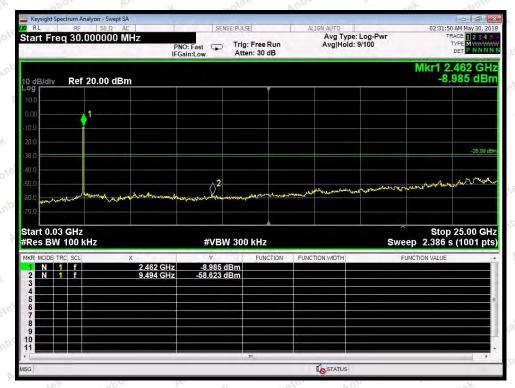
802.11g mode: Highest



802.11n20 mode: Lowest



802.11n20 mode: Middle



802.11n20 mode: Highest



9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	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 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

9.2. Antenna Connected Construction

The WIFI antenna is a PIFA Antenna which permanently attached, and the best case gain of the antenna is 2 dBi It complies with the standard requirement.





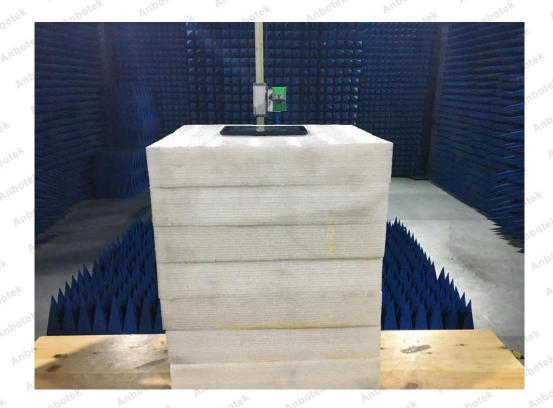
APPENDIX I -- TEST SETUP PHOTOGRAPH





Photo of Radiation Emission Test







APPENDIX II -- EXTERNAL PHOTOGRAPH

	OI Anbotek Anbotek Anbotek Anbotek
Please see the test report of SZAWW180517016-0	Otek Anbotek Anbotek Anbotek Anbotek Anbotek
otek photen Anbo K hotek Anb	
and the second second	
	otek Anbor Ar ak hotek
	anbotek Anbotek Anbotek Anbotek An
nek nbote. And k totek Andre	All otek Anbotek Anbo ak mot
	abotek Anbotes Anbotek Anbotek A
ek Anbotek Anb	Anbotek Anbote
potek Anbotek Anbotek Anbotek Anbote	out Ann Anbotek Anbot An



APPENDIX III -- INTERNAL PHOTOGRAPH

Please see the test report of SZAWW180517016-01 End of Report