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# FCC TEST REPORT

Client Name : Migear International LLC

Address : 34 W 33rd Street, 2nd Floor, New York, NY 10001

Product Name : speaker

Date : Oct. 17, 2019

# **Shenzhen Anbotek Compliance Laboratory Limited**



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# **TEST REPORT**

Applicant : Migear International LLC

Manufacturer : Guangzhou Keyuanlong Electric Co., Ltd.

Product Name : speaker

Model No. : FBX818TWS, FBX818M

Trade Mark : FISHER

Rating(s) : Input: DC 5V, 1A (with DC 3.7V, 1200 mAh Battery inside)

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

Test Method(s) : ANSI C63.10: 2013

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

Sept. 12, 2019
Sept. 12~Oct. 12, 2019

We have a subject to the sept. 12 of the

**Shenzhen Anbotek Compliance Laboratory Limited** 





# 1. General Information

## 1.1. Client Information

Applicant	: Migear International LLC	otek
Address	34 W 33rd Street, 2nd Floor, New York, NY 10001	Aupor
Manufacturer	Guangzhou Keyuanlong Electric Co., Ltd.	An
Address	Gaobian Jingjishe, Dongjing Village, Xinhua Street, Huadu District, Guangzhou, China	t
Factory	Guangzhou Keyuanlong Electric Co., Ltd.	otek
Address	Gaobian Jingjishe, Dongjing Village, Xinhua Street, Huadu District, Guangzhou, China	nbote

# 1.2. Description of Device (EUT)

Arr above
me, so we prepare
unbotek Anbountek
Anbotek Anbotek
stek Aupoter Aup
nbotek Anbotek
Anbores Anno
Anborek Anborek
tek Anbotek Anbo
hotek Anbotek Ar

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

2) BDR(GFSK), EDR( π/4-DQPSK)





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## 1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: ZTE	botek Anbudek
		M/N: STC-A2050I1000USBA-C	Anbores Anbo
U		S/N: 201202102100876	Anborek Anbo
		Input: 100-240V~ 50/60Hz, 0.3A	abotek Anb
o <sup>1</sup>		Output: DC 5V, 1000mA	All otek

## 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.

Mode 1	Anborek Anborek Anbo	CH00	Anbour Atek Anbotek
Mode 2	GFSK	CH39	Anbo otek Anbotek
Mode 3	Anbotek Anbotek	CH78	TV I Charning/TV Only
Mode 4	ok hotek Anbotek	CH00	TX+Charging/TX Only
Mode 5	π/4-DQPSK	CH39	Anbores Anu shorek Ar
Mode 6	Anbore Anborek Anbor	CH78	Aupore Aur apotek

#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.



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## 1.5. List of channels

No.	100	Dir.		201	Do	Yo.	100,	Di.	10.0
Channel	Freq.								
	(MHz)								
00	2402	17	2419	34	2436	51	2453	68	2470
01	2403	18	2420	35	2437	52	2454	69	2471
02	2404	19	2421	36	2438	53	2455	70	2472
03	2405	20	2422	37	2439	54	2456	71	2473
04	2406	21	2423	38	2440	55	2457	72	2474
05	2407	22	2424	39	2441	56	2458	73	2475
05	2408	23	2425	40	2442	57	2459	74	2476
07	2409	24	2426	41	2443	58	2460	75	2477
08	2410	25	2427	42	2444	59	2461	76	2478
09	2411	26	2428	43	2445	60	2462	77	2479
10	2412	27	2429	44	2446	61	2463	78	2480
11	2413	28	2430	45	2447	62	2464		0016
12	2414	29	2431	46	2448	63	2465		
13	2415	30	2432	47	2449	64	2466		1000
14	2416	31	2433	48	2450	65	2467		
15	2417	32	2434	49	2451	66	2468		
16	2418	33	2435	50	2452	67	2469		

#### Note:

- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. EUT built-in battery-powered, fully-charged battery use of the test battery.

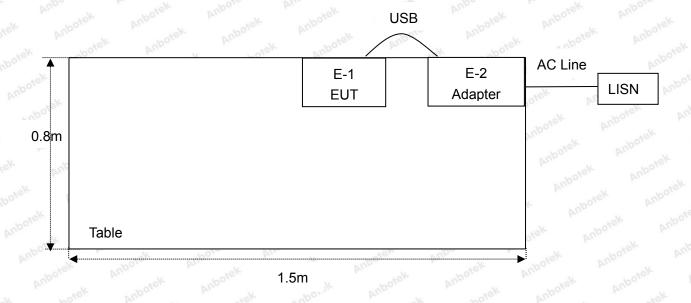


FCC ID: 2AIDL-FBX818TWS

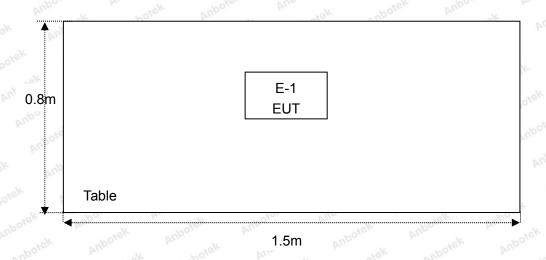
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## 1.6. Description Of Test Setup

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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. 26, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
in 70 tek	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
6 9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 20, 2018	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum  Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	LW	TPR-6420D	374470	Oct. 31, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 01, 2018	1 Year





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## 1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizonta	1) <sub>3/r</sub> b	nbotek An	o otek	Aupotek
		Ur = 3.8 dB (Vertical)	botek	Anbotes	Anthorok	Anborek
L.		potek Anbo tek	anbotek	Anbore	Ann	Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	anbotek	Aupolo	ak abote	K An'

## 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 30, 2018.

#### 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

Shenzhen Anbotek Compliance Laboratory Limited





# 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)(1)	Conducted Peak Output Power	PASS
15.247(a)(1)	20dB Occupied Bandwidth	PASS
15.247(a)(1)	Carrier Frequencies Separation	PASS
15.247(a)(1)	Hopping Channel Number	PASS
15.247(a)(1)	Dwell Time	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbro	eviation for Not Applicable.	Anbotek Anboten



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## 3. Conducted Emission Test

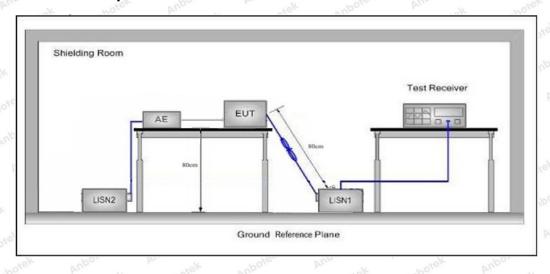
#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.20	7 tek shotek Anbo	
	Fraguenay	Maximum RF Lir	ne Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50 botel

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

During the test, pre-scan the GFSK,  $\pi/4$ QPSK modulation, and found the GFSK modulation Low channel(TX+Charging Mode) which is the worst case, only the worst case is recorded in the report.

Please to see the following pages.

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#### **Conducted Emission Test Data**

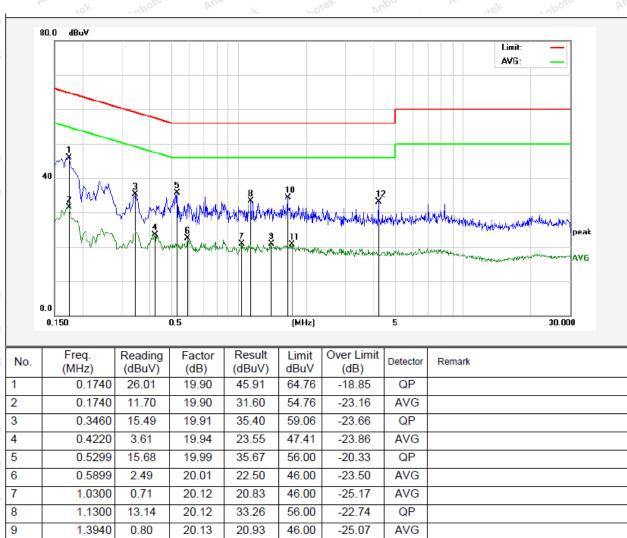
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 22.8℃ Hum.: 53%



QP

AVG

QP

-21.69

-25.30

-22.94

14.18

0.57

12.88

1.6500

1.7220

4.1860

10

11

12

400-003-0500 www.anbotek.com

20.13

20.13

20.18

34.31

20.70

33.06

56.00

46.00

56.00



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#### **Conducted Emission Test Data**

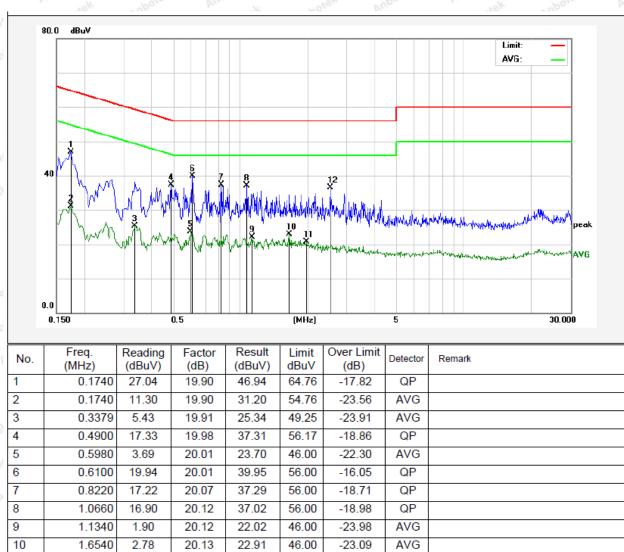
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.8℃ Hum.: 53%



1.9780

2.5140

11

12

0.54

16.30

20.14

20.15

20.68

36.45

46.00

56.00

-25.32

-19.55

AVG

QP



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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 Anbor	Vr Pu	ek Anborek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Anbo	n obotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	anbo	k -nbotek	30
	1.705MHz-30MHz	30	oter Pup	orek - Anbor	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	jotek 3 Ambo
	88MHz~216MHz	150	43.5	Quasi-peak	Ambotek 3 Am
	216MHz~960MHz	200	46.0	Quasi-peak	Anbora 3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Ab 4000MI	500	54.0	Average	3 botel
	Above 1000MHz	Anb orek	74.0	Peak	otek 3 Anboti

#### 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

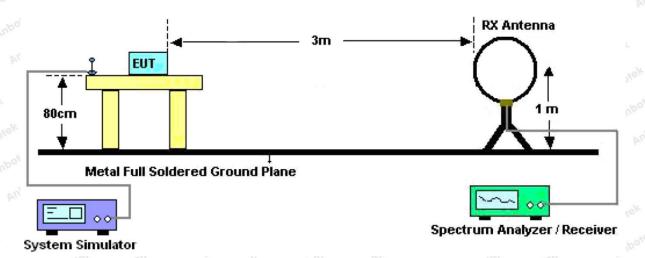


Figure 1. Below 30MHz



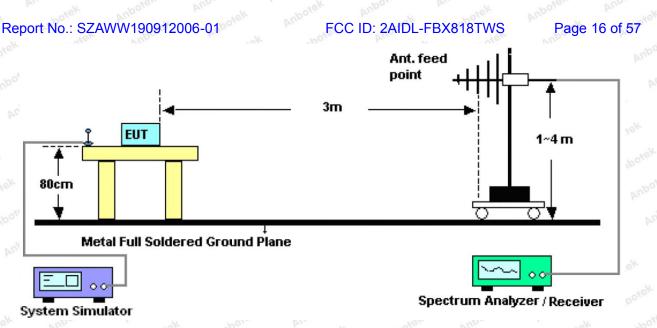


Figure 2. 30MHz to 1GHz

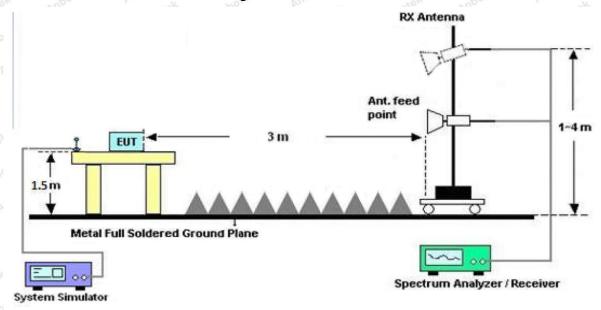


Figure 3. Above 1 GHz

#### 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:

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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 the GFSK,  $\pi/4QPSK$  modulation from 30~1000MHz, and found the GFSK modulation Middle channel which is the worst case, only the worst case is recorded in the report.

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

Code:AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com



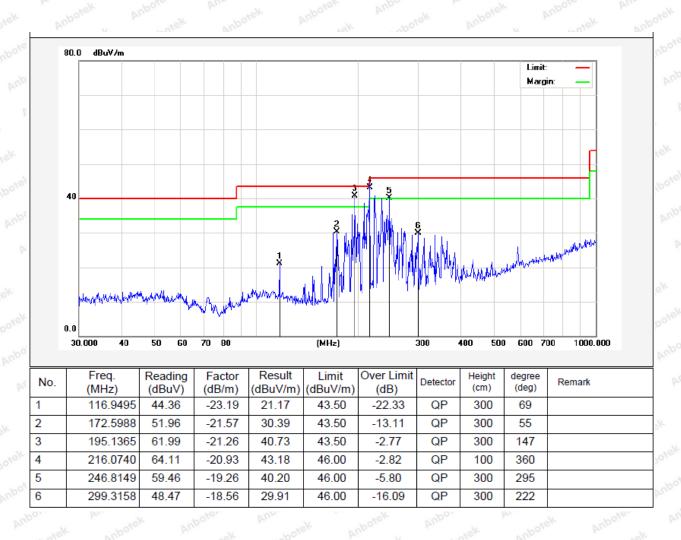
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Test Results (30~1000MHz)

Job No.: SZAWW190912006-01 Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ RH): 23.7°C/51%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Mode 2 Polarization: Horizontal Test Mode:





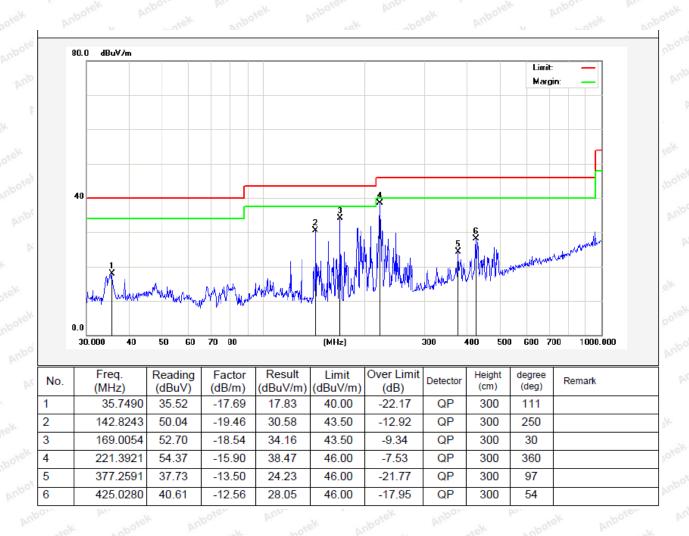
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Test Results (30~1000MHz)

Job No.: SZAWW190912006-01 Temp.(°C)/Hum.(%RH): 23.7°C/51%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Mode 2 Polarization: Vertical Test Mode:





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## Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Lov	vest		
			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.
4804.00	37.73	34.04	6.58	34.09	44.26	74.00	-29.74	V
7206.00	32.11	37.11	7.73	34.50	42.45	74.00	-31.55	V
9608.00	31.72	39.31	9.23	34.79	45.47	74.00	-28.53	V
12010.00	* tek	Anbotek	Anbo	ek anb	otek Aup	74.00	hotek B	Vodn
14412.00	Am* * botek	Anbot	Anbe	rek .	abotek A	74.00	hotek	AnV*
4804.00	42.10	34.04	6.58	34.09	48.63	74.00	-25.37	Ho
7206.00	33.91	37.11	7.73	34.50	44.25	74.00	-29.75	Н
9608.00	31.18	39.31	9.23	34.79	44.93	74.00	-29.07	tel H
12010.00	Anbore*	Ann	Anbotek	Vupo.	rek opc	74.00	P.U.	notel.
14412.00	Anb@le	Aug Pote	k Anbote	Aup.	*8K	74.00	Ooto A	H
		- 110	Av	verage Valu	е			
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
4804.00	26.47	34.04	6.58	34.09	33.00	54.00	-21.00	V
7206.00	20.75	37.11	7.73	34.50	31.09	54.00	-22.91	boteV
9608.00	19.80	39.31	9.23	34.79	33.55	54.00	-20.45	AnbV
12010.00	Am*	k Anb	otek Mup	* 6 K	abotek	54.00	hotek hotek	V
14412.00	*	stek D	upotek b	upo,	nbotek	54.00	Aug	٧
4804.00	30.74	34.04	6.58	34.09	37.27	54.00	-16.73	e <sup>V</sup> H
7206.00	22.95	37.11	7.73	34.50	33.29	54.00	-20.71	Heaton
9608.00	19.57	39.31	9.23	34.79	33.32	54.00	-20.68	"H
12010.00	An*ores	PUDO	ek anbe	sek An	Por br.	54.00	abore	H
14412.00	* Anbore	Aug	rek .	botek	Aupor	54.00	Anbores	AUD.

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## Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mid	ldle		
				 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.
4882.00	36.86	34.38	6.69	34.09	43.84	74.00	-30.16	V
7323.00	31.54	37.22	7.78	34.53	42.01	74.00	-31.99	V
9764.00	31.21	39.46	9.35	34.80	45.22	74.00	-28.78	V
12205.00	Aur *otek	Aupotek	Aupo	ek nb	otek Aup	74.00	potek p	nbo V
14646.00	Ann * notek	Anbot	Puppo.	-16k	abotek A	74.00	worek.	$A^{n}V^{n}$
4882.00	41.06	34.38	6.69	34.09	48.04	74.00	-25.96	Hal
7323.00	33.25	37.22	7.78	34.53	43.72	74.00	-30.28	Н
9764.00	30.59	39.46	9.35	34.80	44.60	74.00	-29.40	Rel H
12205.00	Anboten*	Ann	Anbotek	Aupor	rek opc	74.00	N Ding	Hotou
14646.00	Aup there	Vuo.	k anbore	Anbr	rek bu	74.00	Dojor b	He
			A	verage Valu	е			
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.
4882.00	25.77	34.38	6.69	34.09	32.75	54.00	-21.25	V
7323.00	20.28	37.22	7.78	34.53	30.75	54.00	-23.25	Potek
9764.00	19.38	39.46	9.35	34.80	33.39	54.00	-20.61	AnbVe
12205.00	A/12	k anb	otek Anb	*6/r	abolek	54.00	burn	V
14646.00	***************************************	stek D	Hotek P	'upo,	abořek.	54.00	Aug	V
4882.00	29.95	34.38	6.69	34.09	36.93	54.00	-17.07	e¥ H
7323.00	22.43	37.22	7.78	34.53	32.90	54.00	-21.10	oteVH
9764.00	19.08	39.46	9.35	34.80	33.09	54.00	-20.91	H
12205.00	An*orek	Ambo	lek anbo	HEK AN	oon Yu	54.00	hoten	H
14646.00	* <sub>Anbole</sub>	Anb	rek	botek	Aupor	54.00	Anboten	Anb.

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400-003-0500 www.anbotek.com



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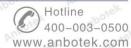
#### Test Results (1GHz-25GHz)

	S (1GHZ-25G	NO.10.	Ann	-46K	~ upo.	bu.	s hote	7
Test Mode:	CH78			Test	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.
4960.00	35.61	34.72	6.79	34.09	43.03	74.00	-30.97	V.m
7440.00	30.71	37.34	7.82	34.57	41.30	74.00	-32.70	V
9920.00	30.47	39.62	9.46	34.81	44.74	74.00	-29.26	V
12400.00	Ann * tek	Anbotek	Anbo	ak and	otek Anb	74.00	potek p	upo V
14880.00	Ann * work	Anbot	Ele Anbo	-tek	abotek A	74.00	notek	AnVie
4960.00	39.55	34.72	6.79	34.09	46.97	74.00	-27.03	Hab
7440.00	32.31	37.34	7.82	34.57	42.90	74.00	-31.10	Н
9920.00	29.73	39.62	9.46	34.81	44.00	74.00	-30.00	rek H
12400.00	unbote*	Ann	Anbotek	Aupo	rek sp.	74.00	Y Dirin	Heron
14880.00	Aup Ster	Vunna Pote	k anbote	Anb.	rek bu	74.00	Polor by	Hel
			A۱	verage Valu	е			
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.
4960.00	24.78	34.72	6.79	34.09	32.20	54.00	-21.80	V
7440.00	19.61	37.34	7.82	34.57	30.20	54.00	-23.80	ootek
9920.00	18.79	39.62	9.46	34.81	33.06	54.00	-20.94	AnbVek
12400.00	Ame work	k Anb	clek Aup	2. K.	abolek	54.00	Pur Polsk	Voo
14880.00	***************************************	otek D	Mpotek P	upo,	photek	54.00	Vun Potek	V
4960.00	28.82	34.72	6.79	34.09	36.24	54.00	-17.76	₩ Н
7440.00	21.67	37.34	7.82	34.57	32.26	54.00	-21.74	Hysto
9920.00	18.38	39.62	9.46	34.81	32.65	54.00 pm	-21.35	H.K
12400.00	An*otek	Mujor	ek anbi	sek An	Por Vi	54.00	nbotes	H
14880.00	*nbole*	Anb	stek	botek	Aupor	54.00	Anboten	H

#### Remark:

- 1. During the test, pre-scan the GFSK,  $\pi$ /4QPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
- 2. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 3. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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Radiated Band Edge:

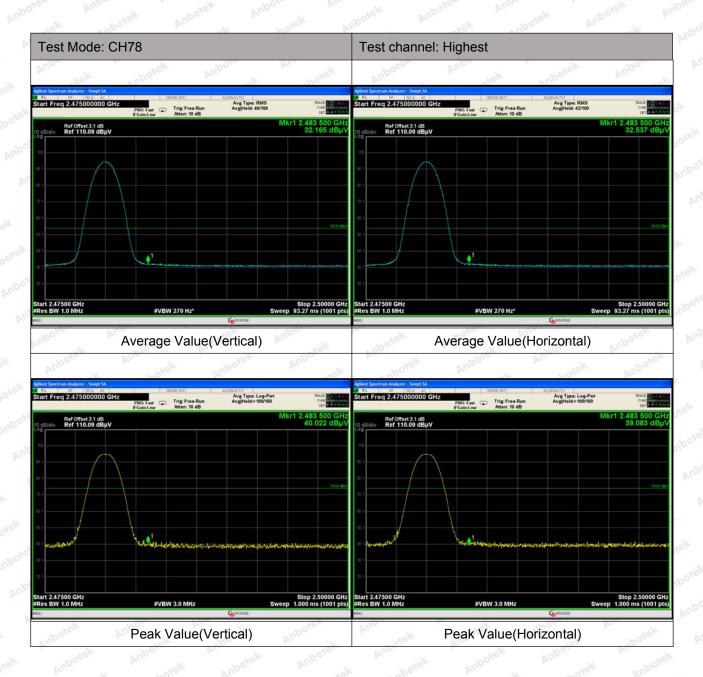


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#### Remark:

- 1. During the test, pre-scan the GFSK,  $\pi$ /4QPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
- 2. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor





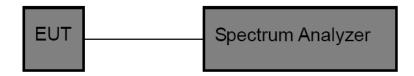
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# 5. Maximum Peak Output Power Test

## 5.1. Test Standard and Limit

Test Standard	FCC Part15 C Se	FCC Part15 C Section 15.247 (b)(3)			anbotek
Test Limit	125mW	Anbor All abotek	Anboren	Ann	Anbore

## 5.2. Test Setup



## 5.3. Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above,
  - 2. Spectrum Setting:

RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $VBW \ge RBW$ 

Sweep = auto

Detector function = peak

Trace = max hold

#### 5.4. Test Data

Test Item	:	Max. peak output power	Test Mode	:	CH Low ~ CH High
Test Voltage	:	DC 3.7V Battery inside	Temperature	:	22.6℃
Test Result	:	PASS	Humidity	:	51%RH

Channel Frequency	Peak Power output	Limit	Desults	NA - de detie -	
(MHz)	(dBm)	(dBm)	Results	Modulation	
2402	-3.793	20.96	PASS	BDR	
2441	-4.870	20.96	PASS	BDR	
2480	-4.675	20.96	PASS	BDR	
2402	-2.751	20.96	PASS	EDR	
2441	-3.814	20.96	PASS	EDR	
2480	-3.644	20.96	PASS	EDR 100100	
Auporen Ann	tek obotek Anbe	ok hotek	Anboro. A	tek abot	

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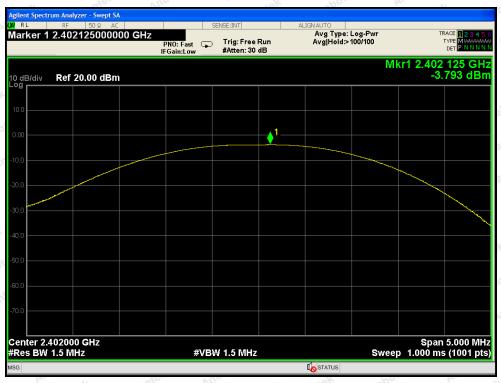
Hotline 400-003-0500 www.anbotek.com

Fax: (86) 755-26014772

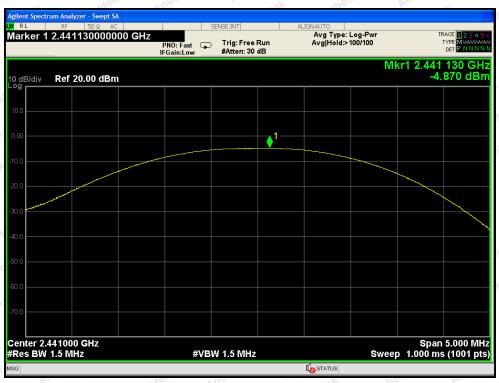


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Test Mode: BDR---Low

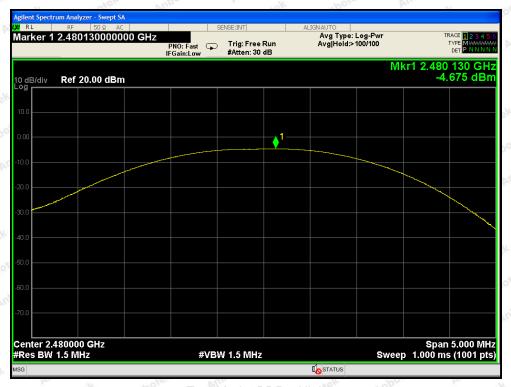


Test Mode: BDR---Middle



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Test Mode: BDR---High



Test Mode: EDR---Low

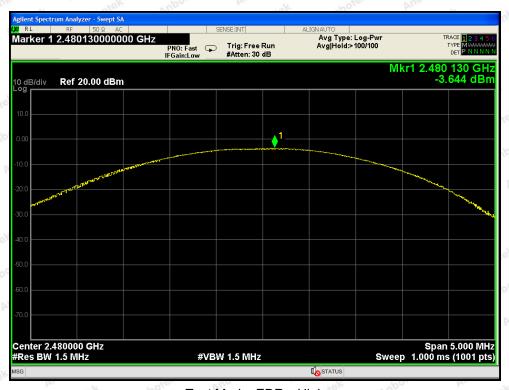


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Test Mode: EDR---Middle



Test Mode: EDR---High



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# 6. 20DB Occupy Bandwidth Test

## 6.1. Test Standard

Test Standard FCC Part15 C Section 15.247 (a)(1)

## 6.2. Test Setup



## 6.3. Test Procedure

Using the following spectrum analyzer settings:

- 1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

#### 6.4. Test Data

Test Item : 20dB BW Test Mode : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature :  $22.6^{\circ}$ C Test Result : PASS Humidity : 51%RH

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2402	882.6	BDR
Middle	2441	879.4	BDR
High	2480	882.8	BDR
Low	2402	1267	EDR
Middle	2441	1261	Among tell EDR Amboret
High	2480	1262	EDR Model
Aupor A	hotek Anbores A	tek anbotek Anbo	ok hotek Anbo

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Test Mode: BDR---Low



Test Mode: BDR---Middle

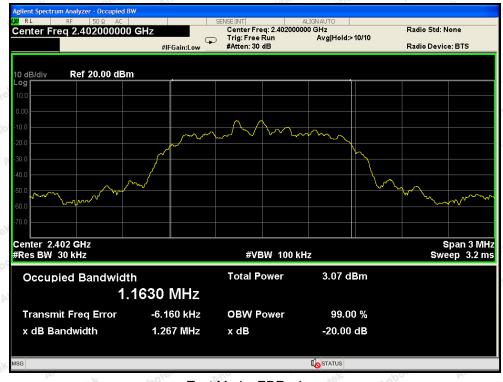


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Test Mode: BDR---High



Test Mode: EDR---Low



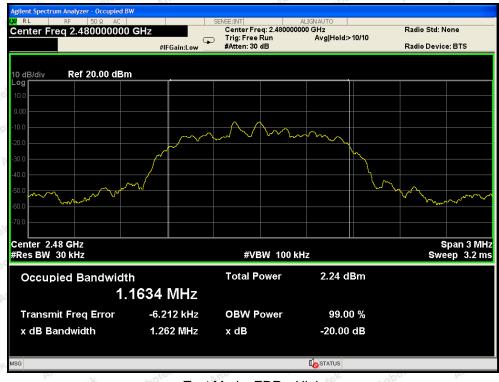


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Test Mode: EDR---Middle



Test Mode: EDR---High

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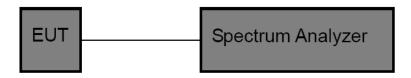
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# 7. Carrier Frequency Separation Test

## 7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Aupole	Andhorek	Anbotek
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	Anbore	And	Anboli

## 7.2. Test Setup



## 7.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

- 1. Span= Wide enough to capture the peaks of two adjacent channels
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

## 7.4. Test Data

Test Item	:	Frequency Separation	Test Mode	:	CH Low ~ CH High
Test Voltage	:	DC 3.7V Battery inside	Temperature	:	<b>22.6</b> ℃
Test Result	:	PASS	Humidity	:	51%RH

Channel	Frequency	Separation Read	Limit	Modulation Mode	
Chamilei	(MHz)	Value (kHz)	(kHz)	I Wodulation Wode	
Low	2402	1000	882.6	BDR	
Middle	2441	1000	879.4	BDR BDR	
High	2480	1000	882.8	BDR	
Low	2402	1000	844.7	EDR	
Middle	2441	1000	840.7	EDR	
High	2480	1000	841.3	EDR	
7/201 D/11	73:00	PUD.	po, pi,	-Ve Ve	

Remark: (1)The limit is 2/3 of 20dB BW;

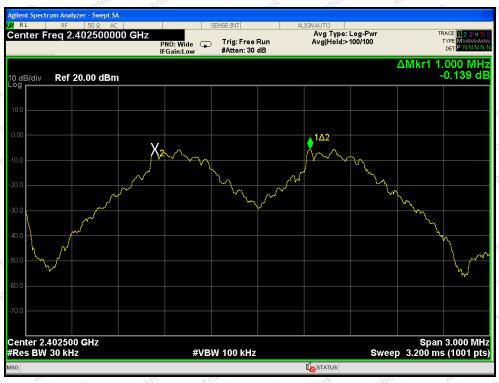
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Test Mode: BDR---Low



Test Mode: BDR---Middle

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Test Mode: BDR---High



Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



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# 8. Number of Hopping Channel Test

## 8.1. Test Standard and Limit

Test Standard	FCC Part15 C Sec	tion 15.247 (a)	(1)	Anbore.	Ans hotek	Anbotek
Test Limit	>15 channels	Anbo	anbotek	Anbore	An	Anbore

## 8.2. Test Setup



## 8.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

- 1. Span= the frequency band of operation
- 2. Set the RBW = 100kHz.
- 3. Set the VBW = 300kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

### 8.4. Test Data

	Test Item :	Number of Hopping Frequency	Test Mode :	CH Low ~ CH High
26	Test Voltage :	DC 3.7V Battery inside	Temperature :	22.6℃
	Test Result :	PASS	Humidity :	51%RH

Hopping Channel	Quantity of Hopping	Quantity of Hopping	Madulation Mada	
Frequency Range	Channel	Channel	Modulation Mode	
2402-2480MHz	Anbour 79 hotek	>15	BDR	
2402-2480MHz	79	>15	EDR Anboth	
inpose. Aug	Anbotel Anbo	ek botek Anbo	Arthur Otek Anbotek	

Code:AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com

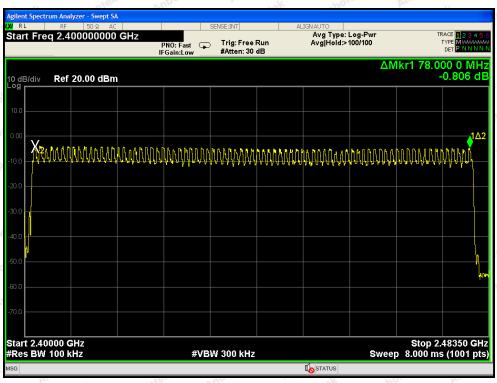


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**BDR Mode** 



**EDR Mode** 



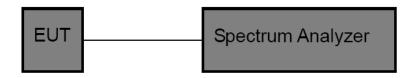
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## 9. Dwell Time Test

## 9.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anbore.	Ans hotek	Anborek
Test Limit	0.4 sec	Anbore	Ann	Anbo

## 9.2. Test Setup



## 9.3. Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span= zero span, centered on a hopping channel
- 2. Set the RBW = 1 MHz.
- 3. Set the VBW = 1 MHz.
- 4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

### 9.4. Test Data

Test Item : Time of Occupancy Test Mode : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside : Temperature :  $22.6^{\circ}$ C Test Result : PASS : Humidity : 51%RH

Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
0.378	time slot length *1600/2 /79 * 31.6	120.96	0.4	BDR
1.635	time slot length *1600/4 /79 * 31.6	261.60	0.4	BDR
2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	BDR
0.384	time slot length *1600/2 /79 * 31.6	122.88	0.4	EDR
1.635	time slot length *1600/4 /79 * 31.6	261.60	0.4	EDR
2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	EDR
	(ms) 0.378 1.635 2.880 0.384 1.635	(ms)  0.378	(ms)     Time slot length (ms)     (ms)       0.378     time slot length *1600/2 /79 * 31.6     120.96       1.635     time slot length *1600/4 /79 * 31.6     261.60       2.880     time slot length *1600/6 /79 * 31.6     307.20       0.384     time slot length *1600/2 /79 * 31.6     122.88       1.635     time slot length *1600/4 /79 * 31.6     261.60	(ms)     Time slot length (ms)     (ms)     Limit (s)       0.378     time slot length *1600/2 /79 * 31.6     120.96     0.4       1.635     time slot length *1600/4 /79 * 31.6     261.60     0.4       2.880     time slot length *1600/6 /79 * 31.6     307.20     0.4       0.384     time slot length *1600/2 /79 * 31.6     122.88     0.4       1.635     time slot length *1600/4 /79 * 31.6     261.60     0.4

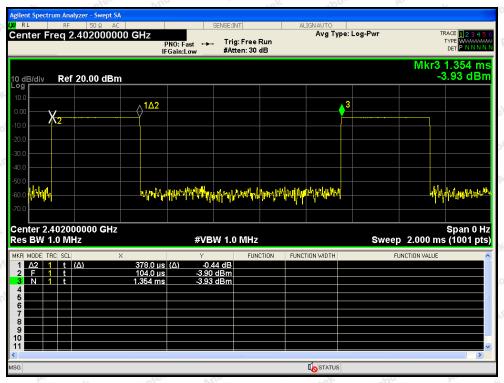
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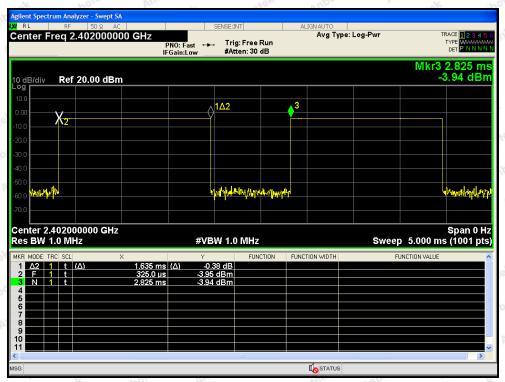


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Test Mode: BDR---DH1

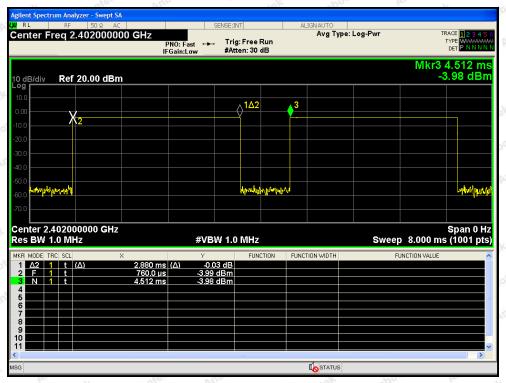


Test Mode: BDR---DH3

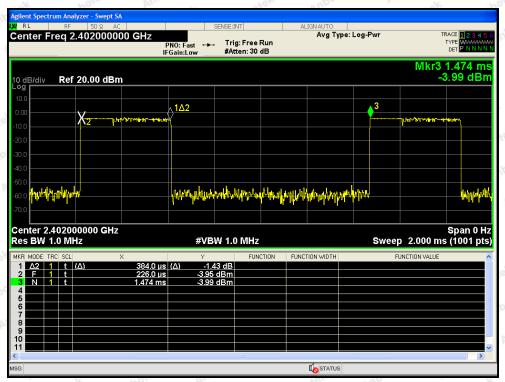


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Test Mode: BDR---DH5

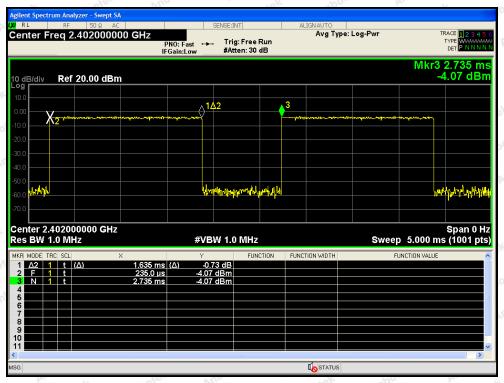


Test Mode: EDR---2DH1

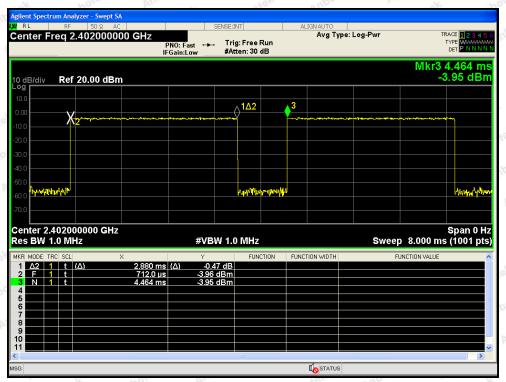


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Test Mode: EDR---2DH3



Test Mode: EDR---2DH5



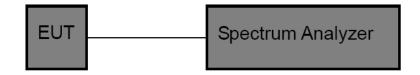
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# 10. 100kHz Bandwidth of Frequency Band Edge Requirement

## 10.1. 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

## 10.2. Test Setup



## 10.3. Test Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

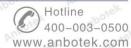
- 1. Set the RBW = 100kHz.
- 2. Set the VBW = 300kHz.
- 3. Sweep time = auto couple.
- 4. Detector function = peak.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.

#### 10.4. Test Data

Test Item : Band edge : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside : Temperature :  $22.6^{\circ}$ C Test Result : PASS : Humidity :  $51^{\circ}$ RH

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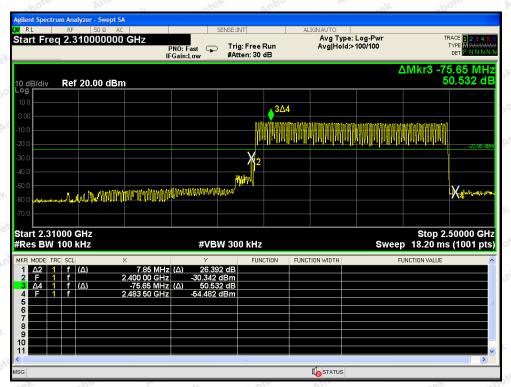




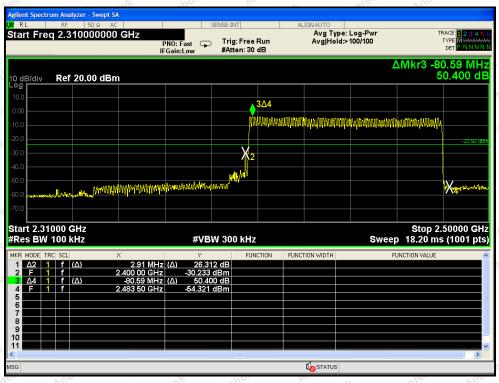
### FCC ID: 2AIDL-FBX818TWS

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## **For Hopping Mode**



BDR mode



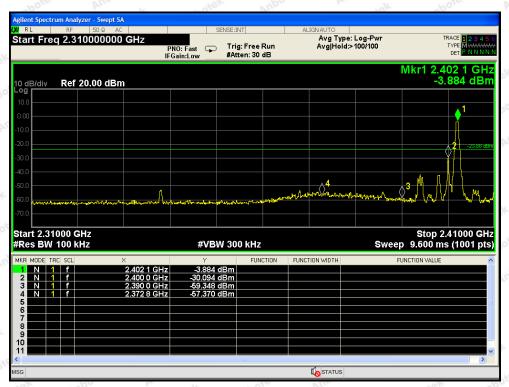
EDR mode



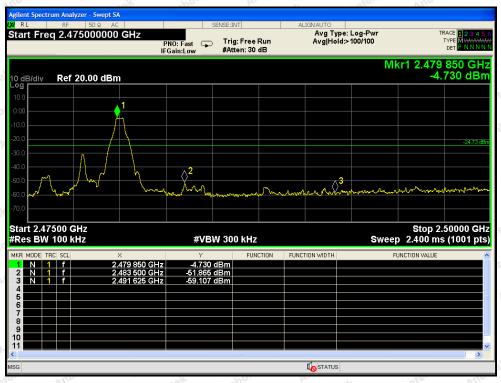
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## For Non-Hopping Mode



BDR mode -- Lowest



BDR mode -- Highest

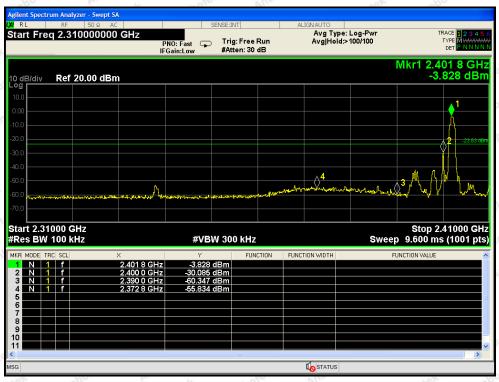
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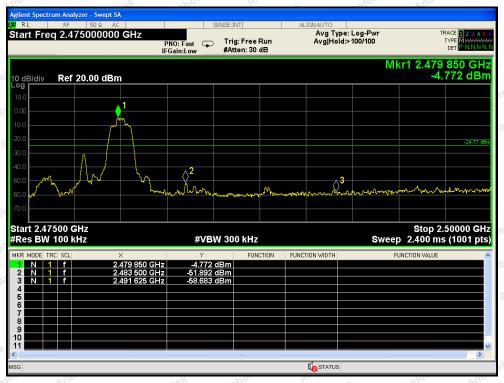
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## For Non-Hopping Mode



EDR mode -- Lowest



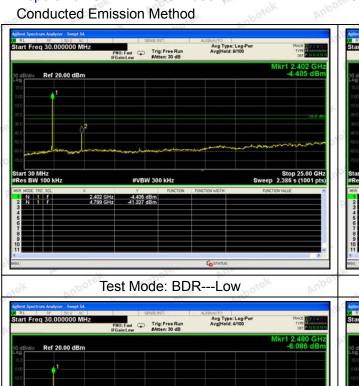
EDR mode -- Highest

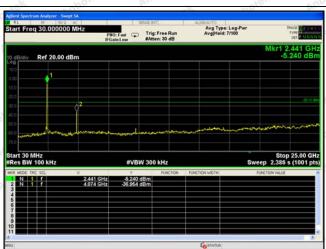
#### **Shenzhen Anbotek Compliance Laboratory Limited**



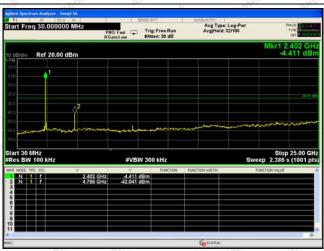
## FCC ID: 2AIDL-FBX818TWS

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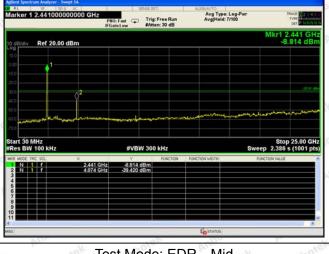
| Color | Colo

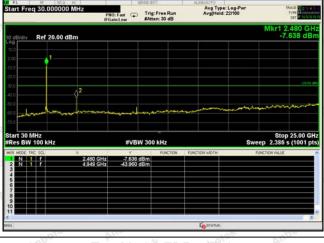


Test Mode: BDR---Mid

Test Mode: BDR---High

Test Mode: EDR---Low





Test Mode: EDR---Mid

Test Mode: EDR---High

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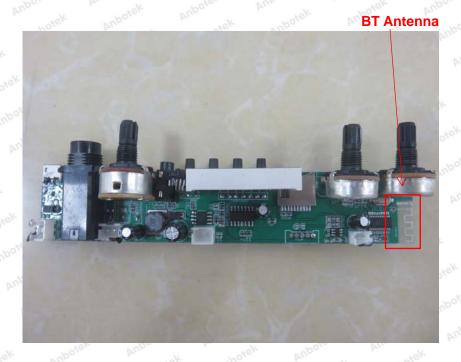
# 11. Antenna Requirement

## 11.1. 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

### 11.2. Antenna Connected Construction

The antenna is PCB Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



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# **APPENDIX I -- TEST SETUP PHOTOGRAPH**





Photo of Radiation Emission Test



## **Shenzhen Anbotek Compliance Laboratory Limited**

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# **APPENDIX II -- EXTERNAL PHOTOGRAPH**





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## **APPENDIX III -- INTERNAL PHOTOGRAPH**



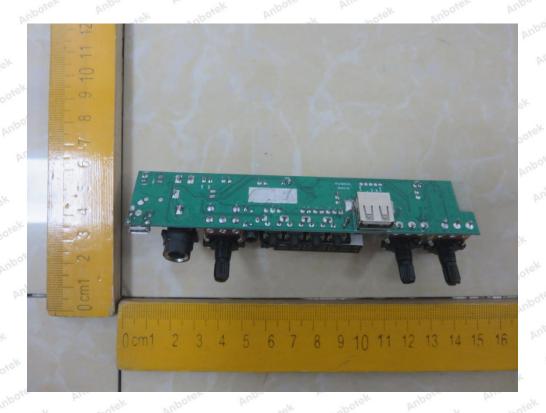


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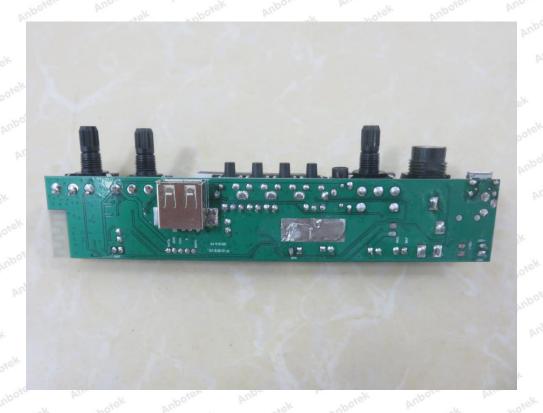


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- End of Report -----

### **Shenzhen Anbotek Compliance Laboratory Limited**

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