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FCC TEST REPORT

Client Name : Shenzhen Beilan Technology Co., Ltd.

Room310, Building 9, Lixin Xinwei Industrial Zone, Xili

Address : North Road, Licheng Community, Xili Street, Nanshan

District, Shenzhen, China

Product Name : Electrical Muscle Stimulation Training Suit

Date : Aug. 27, 2019

Shenzhen Anbotek Compliance Laboratory Limited





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Code: AB-RF-05-a



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TEST REPORT

Applicant Shenzhen Beilan Technology Co., Ltd.

Manufacturer Shenzhen Beilan Technology Co., Ltd.

Product Name Electrical Muscle Stimulation Training Suit

Model No. B-EW001

Trade Mark Balanx

Rating(s) Input: DC 5V, 1.8A(with DC 3.7V, 3600 mAh Battery inside)

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 Jul. 01, 2019 Date of Test Jul. 01~Aug. 14, 2019 Anbotek Prepared By (Engineer / Dolly Mo) Approved Snowy Meng Reviewer (Supervisor / Snowy Mena) Approved & Authorized Signer (Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited

400-003-0500

Code: AB-RF-05-a



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1. General Information

1.1. Client Information

Applicant	: Shenzhen Beilan Technology Co., Ltd.
Address	Room310, Building 9, Lixin Xinwei Industrial Zone, Xili North Road, Licheng Community, Xili Street, Nanshan District, Shenzhen, China
Manufacturer	: Shenzhen Beilan Technology Co., Ltd.
Address	Room310, Building 9, Lixin Xinwei Industrial Zone, Xili North Road, Licheng Community, Xili Street, Nanshan District, Shenzhen, China
Factory	: Shenzhen Beilan Technology Co., Ltd.
Address	Room310, Building 9, Lixin Xinwei Industrial Zone, Xili North Road, Licheng Community, Xili Street, Nanshan District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Electrical Muscle Stimulation 1	raining Suit
Model No.	:	B-EW001	tek Anbotek Anbotek Anbotek
Trade Mark	:	Balanx	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapter / D	OC 3.7V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(I	Engineering Sample)
		Operation Frequency:	2402~2480MHz
		Transfer Rate:	1 Mbits/s
Product		Number of Channel:	40 Channels
Description	•	Modulation Type:	GFSK
	Antenr	Antenna Type:	Ceramic Antenna
		Antenna Gain(Peak):	2 dBi

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





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1.3. Auxiliary Equipment Used During Test

eV	Adapter	:	Manufacturer: ZTE	"Otek	Aupote,	And tek
			M/N: STC-A2050I1000USBA-C			Anbore Ans
D.			S/N: 201202102100876			Anbotek A
A			Input: 100-240V~ 50/60Hz, 0.3A			ak abotek
			Output: DC 5V, 1000mA			K Notek

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.

	Pretest Mode			Desci	ription
	Mode 1	nboten	CH00	Anbotek	Anbotek Anbotek Anbotek
6	Mode 2	Aupole	CH19	Anbotek	TX+ Charging Mode/TX Only
o)[e	Mode 3	Aupote	CH39	Anbotek	Anbore And

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.

1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	09	2420	18	2438	27	2456	36	2474
01 _b otel	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11,	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21 🗝	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468		NO.
07	2416	16	2434	25	2452	34	2470		
, 08 ×	2418	17	2436	26	2454	35	2472		

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.

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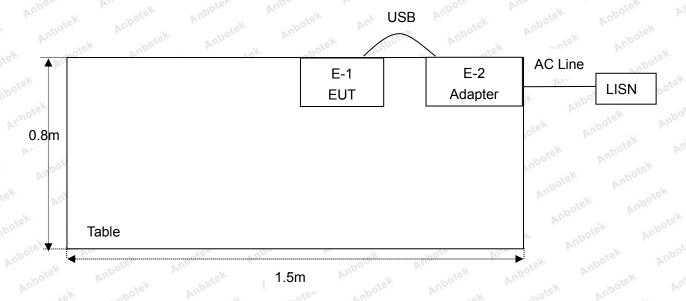


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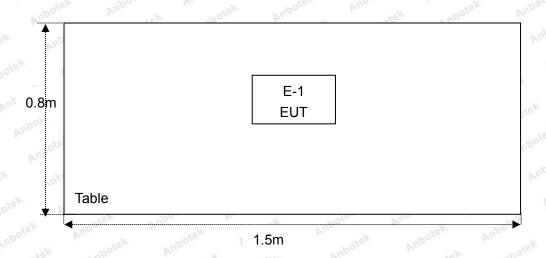
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1.6. Description Of Test Setup

CE



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1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
	100	b. 0b		MO. Day	0.0	Interval
ibotek	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. nbote	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6. nb	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
,×7.	Double Ridged Horn Instrument Antenna corporatio		GTH-0118	351600	Nov. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
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	Anbot N/A Anbo	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
17.0°	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. K	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 (Horizontal)	abotek	Anbotek	Anbou	Anbol
		Ur = 3.8 dB (Vertical)	nbotek	Anboten	Anb	V.
		Anbotek Anbo	A. abotel	Anbote	ak And	ek.
Conduction Uncertainty	:	Uc = 3.4 dB	· Anb	otek Anbo	Co. Aus	potek

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



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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

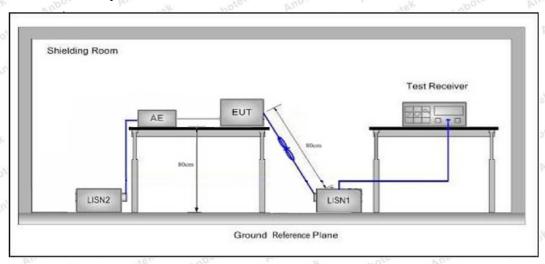
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.	.207 Andrew Andrew		
	Fraguenay	Maximum RF L	ine Voltage (dBuV)	
	Frequency	Quasi-peak Level	Average Level	
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
	500kHz~5MHz	56	46	
	5MHz~30MHz	60	50 mbolis	

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 all the modes, and found 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

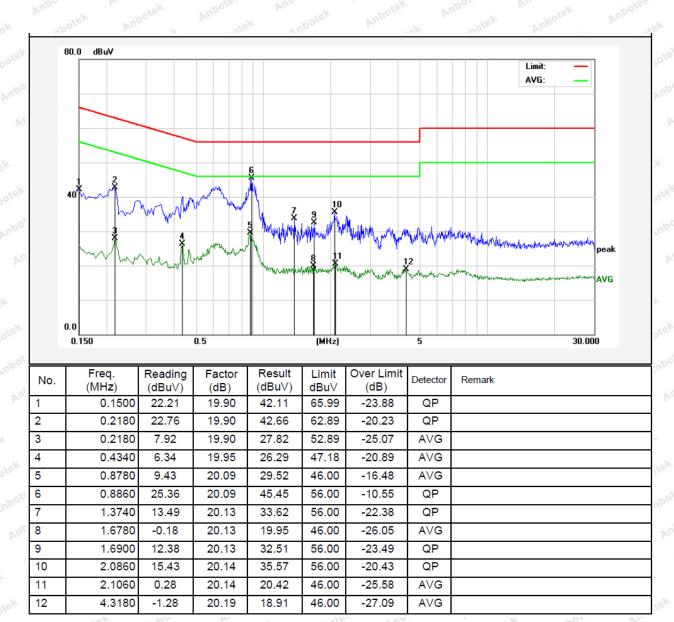
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 22.6℃ Hum.: 55%





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Conducted Emission Test Data

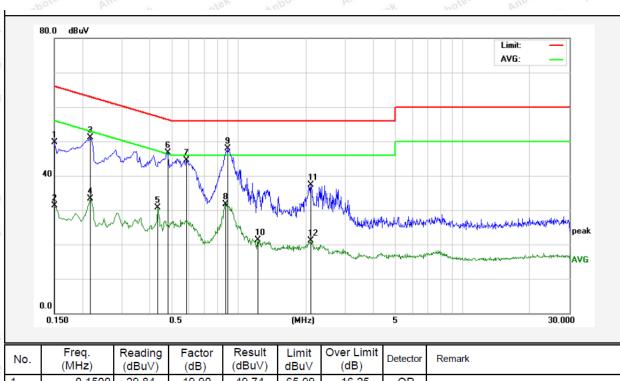
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.6℃ Hum.: 55%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBu∀)	Limit dBu∀	Over Limit (dB)	Detector	Remark
1	0.1500	29.84	19.90	49.74	65.99	-16.25	QP	
2	0.1500	11.34	19.90	31.24	55.99	-24.75	AVG	
3	0.2180	31.13	19.90	51.03	62.89	-11.86	QP	
4	0.2180	13.44	19.90	33.34	52.89	-19.55	AVG	
5	0.4340	10.80	19.95	30.75	47.18	-16.43	AVG	
6	0.4820	26.80	19.97	46.77	56.30	-9.53	QP	
7	0.5860	24.46	20.01	44.47	56.00	-11.53	QP	
8	0.8780	11.67	20.09	31.76	46.00	-14.24	AVG	
9	0.8900	27.90	20.09	47.99	56.00	-8.01	QP	
10	1.2180	1.13	20.12	21.25	46.00	-24.75	AVG	
11	2.1099	17.23	20.14	37.37	56.00	-18.63	QP	
12	2.1099	1.00	20.14	21.14	46.00	-24.86	AVG	



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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 1	5.209 and 15.205			
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	potek - Anbor	rek who,	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbotek Ant	lo. by	30 AUDO
	1.705MHz-30MHz	30	Anbotek	rupo ofek	30
Test Limit	30MHz~88MHz	100 motek	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3°tek
	216MHz~960MHz	200	46.0	Quasi-peak	3 abotek
	960MHz~1000MHz	500	54.0	Quasi-peak	otek 3 Anbot
	A h a v a 1000MI !-	500	54.0	Average	nbotek 3 An
	Above 1000MHz	Por Aur Potek	74.0	Peak	nbol 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

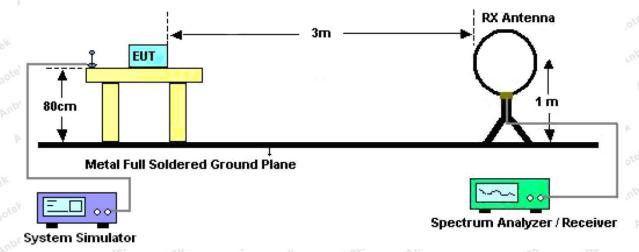


Figure 1. Below 30MHz



System Simulator

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Ant. feed point

80cm | Metal Full Soldered Ground Plane

Figure 2. 30MHz to 1GHz

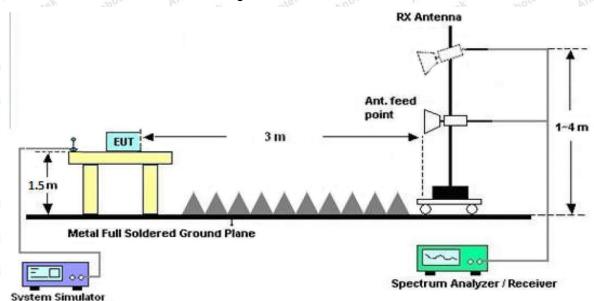


Figure 3. Above 1 GHz

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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Spectrum Analyzer / Receiver



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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 the GFSK modulation, and found the GFSK modulation Low 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.



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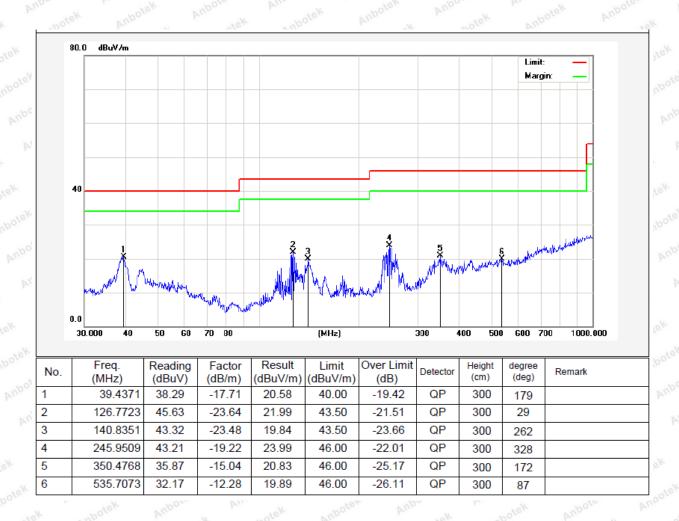
Test Results (30~1000MHz)

Test Mode: Mode 1

Power Source: DC 3.7V Battery inside

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 24.9°C/51%RH





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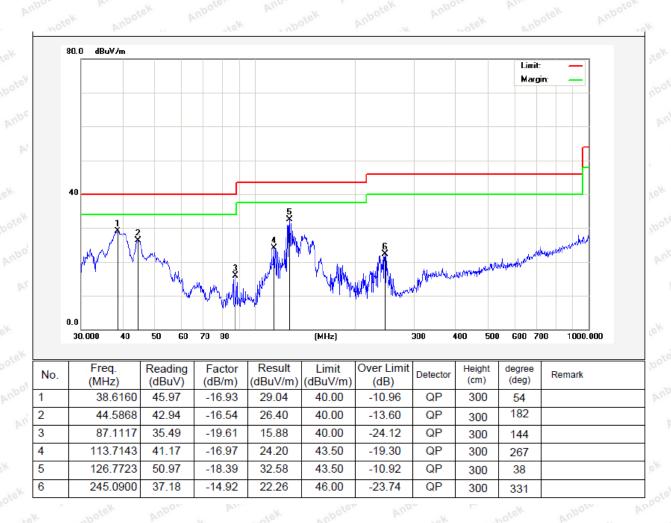
Test Results (30~1000MHz)

Test Mode: Mode 1

Power Source: DC 3.7V Battery inside

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 24.9°C/51%RH





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Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Lov	vest		
			ı	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	35.11	34.04	6.58	34.09	41.64	74.00	-32.36	upo Ok
7206.00	30.38	37.11	7.73	34.50	40.72	74.00	-33.28	AnV ³
9608.00	30.18	39.31	9.23	34.79	43.93	74.00	-30.07	Val
12010.00	stek *	botek	Aupoter	Anna	Anbotek	74.00	An abote	V
14412.00	Do Otek	Anbotek	Anbote	Andhote	k Anbote	74.00	tek up	otek V
4804.00	38.95	34.04	6.58	34.09	45.48	74.00	-28.52	APOGEN
7206.00	31.94	37.11	7.73	34.50	42.28	74.00	-31.72	An Hite
9608.00	29.39	39.31	9.23	34.79	43.14	74.00	-30.86	Hot
12010.00	*6K *	potek	Anbotek	Anbo	Anbotek	74.00	And	Н
14412.00	por *	anbotek	Anboton	And	Anbotel	74.00	ek ab	rek H
	100	15.5	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.
4804.00	24.34	34.04	6.58	34.09	30.87	54.00	-23.13	V
7206.00	19.31	37.11	7.73	34.50	29.65	54.00	-24.35	V
9608.00	18.53	39.31	9.23	34.79	32.28	54.00	-21.72	V
12010.00	Anb ten	Aub.	N Anbott	N Anbe	rek bu	54.00	corex by	V
14412.00	A*boter	K VIII	otek ant	lotek A	loole by	54.00	Kupotek	V
4804.00	28.33	34.04	6.58	34.09	34.86	54.00	-19.14	Aup
7206.00	21.34	37.11	7.73	34.50	31.68	54.00	-22.32	W H
9608.00	18.07	39.31	9.23	34.79	31.82	54.00	-22.18	H
12010.00	Anbotek	Aupor	Aupote Anbote	K Aupo	er bugo	54.00	otek bi	H
14412.00	Al*botek	Anbo	rek op	otek Ar	Doge No	54.00	nbotek	Aupor



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Test Results (1GHz-25GHz)

Test Mode:	CH19			Test	channel: Mid	dle		
			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.
4880.00	38.11	34.38	6.69	34.09	45.09	74.00	-28.91	"upo Ck
7320.00	32.36	37.22	7.78	34.53	42.83	74.00	-31.17	P_{u} $A_{v_{i}}$
9760.00	31.94	39.46	9.35	34.80	45.95	74.00	-28.05	V
12200.00	otek *	botek	Aupole	Annabotek	Anbotek	74.00	River	V
14640.00	tore*	Anbotek	Anbore	Andote	k Anbote	74.00	lek vup	ote ^K V
4880.00	42.56	34.38	6.69	34.09	49.54	74.00	-24.46	nbotek
7320.00	34.19	37.22	7.78	34.53	44.66	74.00	-29.34	Anth
9760.00	31.44	39.46	9.35	34.80	45.45	74.00	-28.55	Hal
12200.00	** *	potek	Anbotes	Anbo	Anbotek	74.00	And	Н
14640.00	bos kek	Anbotek	Aupoton	Ann	Anbote	74.00	ek up	rek H
	1000	0.00	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.
4880.00	26.79	34.38	6.69	34.09	33.77	54.00	-20.23	V
7320.00	20.97	37.22	7.78	34.53	31.44	54.00	-22.56	vek V
9760.00	19.99	39.46	9.35	34.80	34.00	54.00	-20.00	V
12200.00	Aup Ste.	Aug	anbott Anbott	Anbo Anbo	FB/K bris	54.00	over N	V
14640.00	Anbote	K Ku	otek Ant	otek Ar	lpor A	54.00	Kupolen K	V
4880.00	31.10	34.38	6.69	34.09	38.08	54.00	-15.92	H
7320.00	23.20	37.22	7.78	34.53	33.67	54.00	-20.33	A H
9760.00	19.79	39.46	9.35	34.80	33.80	54.00	-20.20	H
12200.00	Anbotek	Anbo	v Anbote	k Anbo	Vok Vuo	54.00	otek Ar	H
14640.00	AI*DOLOR	Anbo	otek Anb	otek An	Dogs. We	54.00	nbotek	Aupor



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Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Hig	hest		
			ı	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	36.17	34.72	6.79	34.09	43.59	74.00	-30.41	^{np} o'ok
7440.00	31.08	37.34	7.82	34.57	41.67	74.00	-32.33	AnV ^{tt}
9920.00	30.80	39.62	9.46	34.81	45.07	74.00	-28.93	Val
12400.00	stek *	botek	Aupoter	Anna	Anbotek	74.00	An abote	V
14880.00	De tek	Anbotek	Anboter	And	K Anbote	74.00	ek vap	otek V
4960.00	40.23	34.72	6.79	34.09	47.65	74.00	-26.35	nbot PK
7440.00	32.73	37.34	7.82	34.57	43.32	74.00	-30.68	Anthie
9920.00	30.12	39.62	9.46	34.81	44.39	74.00	-29.61	Hot
12400.00	* * *	botek	Anbotek	Anbo	Anbotek	74.00	And	Н
14880.00	por *	anbotek	Anboton	And	Anbotel	74.00	ek who	tek H
	100	15.5	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.
4960.00	25.25	34.72	6.79	34.09	32.67	54.00	-21.33	V
7440.00	19.93	37.34	7.82	34.57	30.52	54.00	-23.48	V
9920.00	19.07	39.62	9.46	34.81	33.34	54.00	-20.66	V
12400.00	Anb ten	Aub.	N Anbott	N Anbo	rek brus	54.00	ootek N	V
14880.00	A*boter	K VIII	otek ant	lotek Ar	lporc Ar	54.00	Kupotek	V
4960.00	29.36	34.72	6.79	34.09	36.78	54.00	-17.22	H
7440.00	22.03	37.34	7.82	34.57	32.62	54.00	-21.38	W H
9920.00	18.71	39.62	9.46	34.81	32.98	54.00	-21.02	H
12400.00	Anbotek	Aupor	Aupote	k Aupo,	V. Vupo	54.00	otek M	H
14880.00	Althorek	Anbo	rek op	otek Ar	Dores. No	54.00	abotek	Aupor

Remark:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*" 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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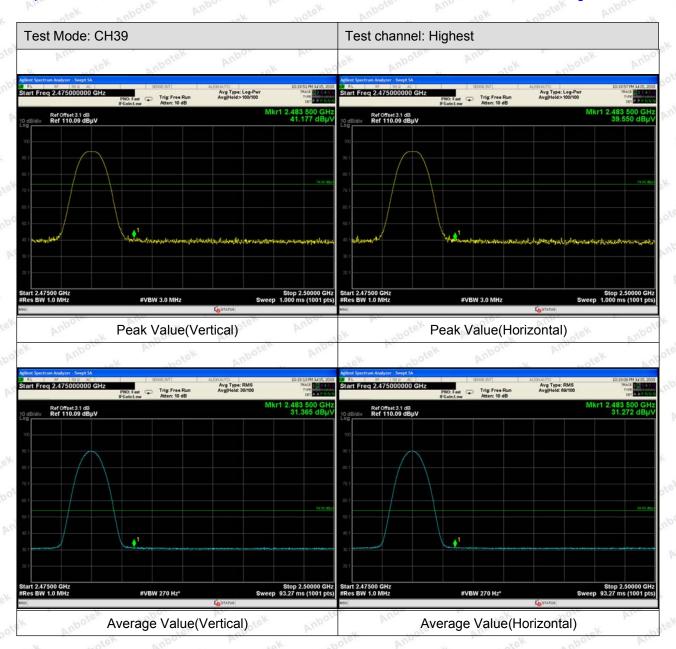
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Radiated Band Edge:





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Remark:

1. 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 (Section 15.	247 (b)(3)	hotek	Anbotek	Anbo. A.
Test Limit	30dBm	anbotek	Anbore	An	Anbotek	Anbo

5.2. Test Setup



5.3. Test Procedure

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- 1. Set the RBW ≥DTS bandwidth.
- 2. Set the VBW≥3*RBW.
- 3. Set the span≥ 3*RBW.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use peak marker function to determine the peak amplitude level.

5.4. Test Data

Test Item : Max. peak output power Test Mode : CH Low ~ CH High Test Voltage : DC 3.7V Battery inside Temperature : 24° C Test Result : PASS Humidity : 55° RH

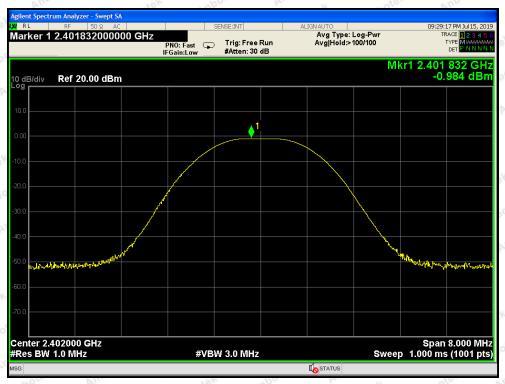
	Channel Frequency (MHz)	Peak Power output (dBm)	Limit (dBm)	Results
ek-	2402	-0.984	abotek 30 abote	PASS
potek	2440	-1.992	Anbotek 30 Anbote	PASS
Anbot	2480	1.144	30 Anbou	PASS

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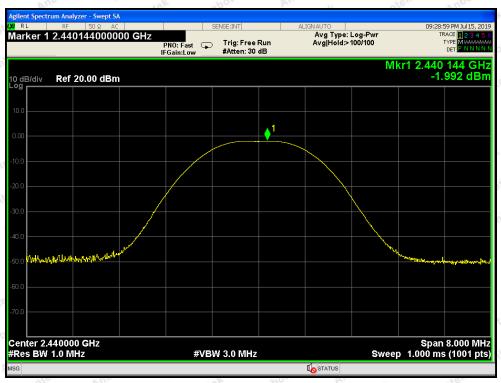


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CH: Low

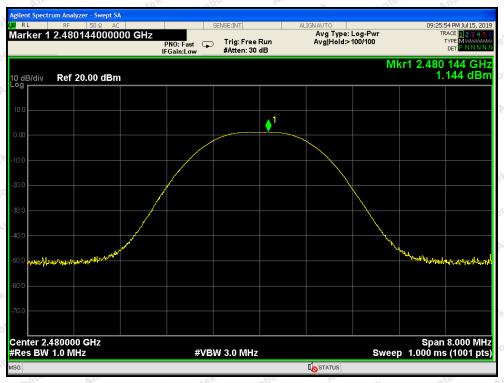


CH: Middle



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CH: High

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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)	hotek	Anbotek	Anbo. atek
Test Limit	>500kHz	Anbotek	Anbore	Am	Anbotek	Anbo

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≥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 : DC 3.7V Battery inside Temperature : 24℃

Test Result : PASS Humidity : 55%RH

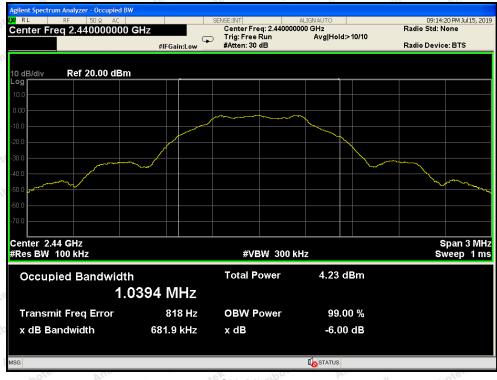
Channel	Frequency(MHz)	Bandwidth (kHz)	Limit (kHz)	Results
Low	2402	697.9	stek anbotek	PASS
Middle	2440	681.9	>500	PASS
High	2480	695.3	Anbe botek Anbe	PASS



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CH: Low



CH: Middle

31-



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CH: High

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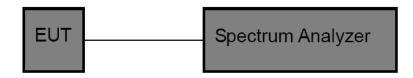
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7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C	Section 15.2	247 (e)	hotek	Anbotek	Anbo. A.
Test Limit	8dBm	Anbotek	Anboto	An	Anbotek	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 ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 24° C

Test Result : PASS Humidity : 55%RH

Channel	Frequency (MHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Results
Low bottom	2402	-15.828	potek 8.00 Anbotek	PASS
Middle	2440	-17.040	8.00	PASS
High Anbo	2480	-13.872	8.00	PASS



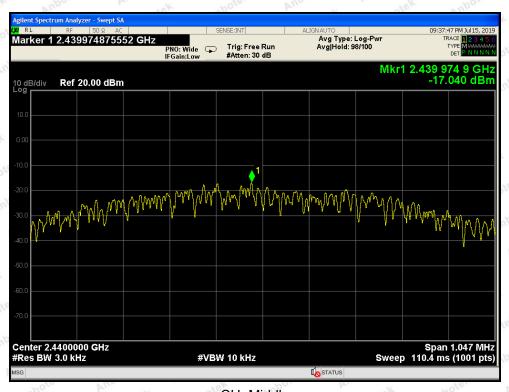


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CH: Low



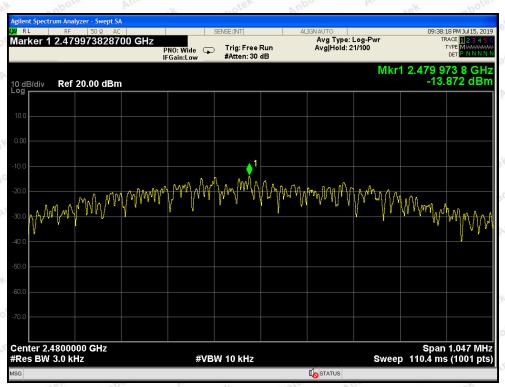
CH: Middle

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CH: High







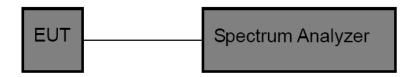
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8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
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

Test Item : Band edge : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 24℃

Test Result : PASS Humidity : 55%RH

Frequency Band	Delta Peak to Band Emission	Limit	Desulte
(MHz)	(dBc)	(dBc)	Results
2400	57.067	>20	PASS
2483.5	60.932	>20	PASS

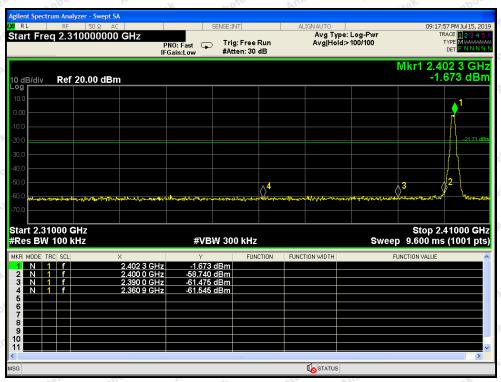
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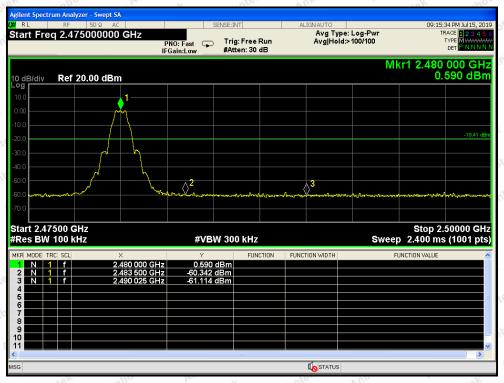


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CH: Low



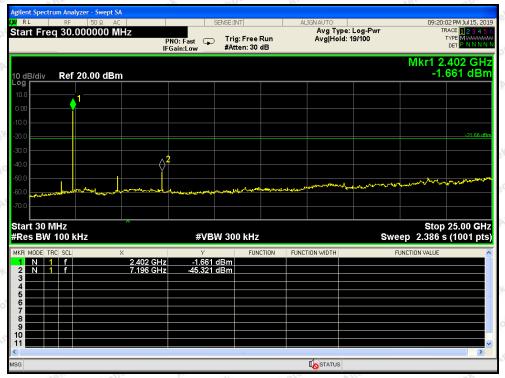
CH: High

Code: AB-RF-05-a

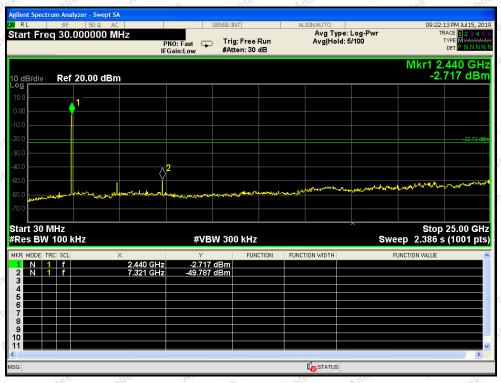


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CH: Low



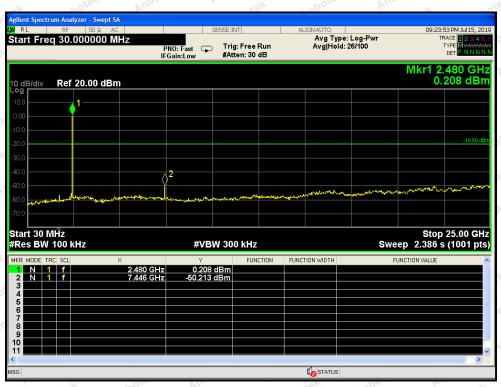
CH: Middle

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CH: High



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



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





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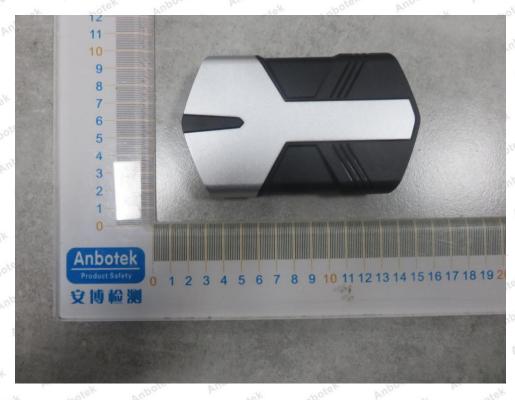




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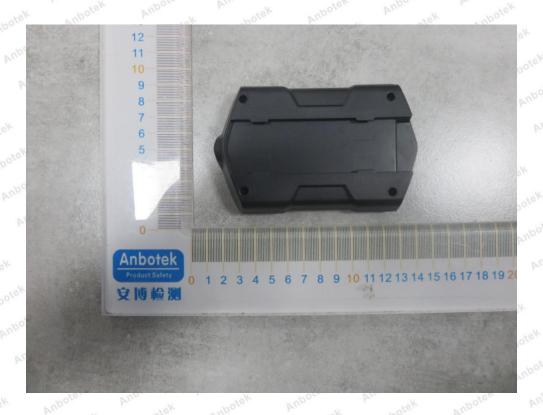
APPENDIX II -- EXTERNAL PHOTOGRAPH







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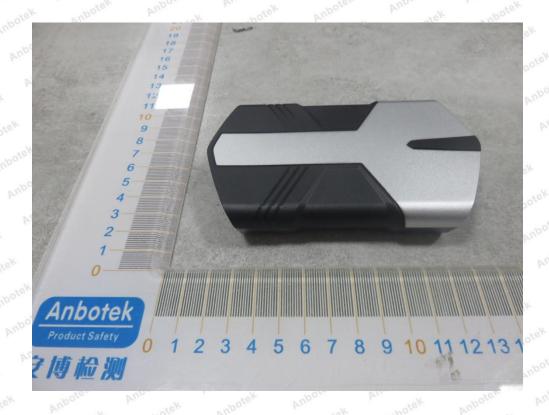






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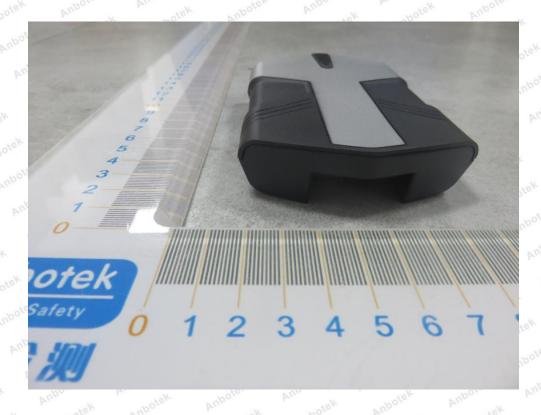




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APPENDIX III -- INTERNAL PHOTOGRAPH

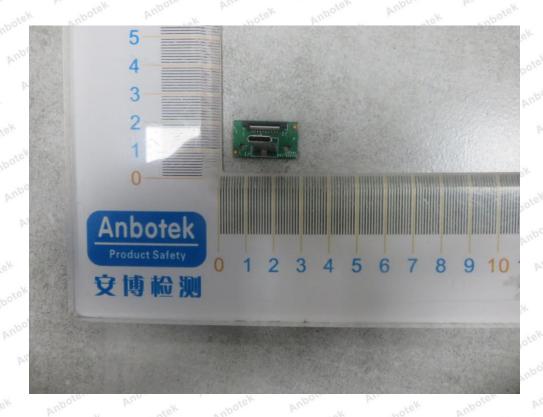


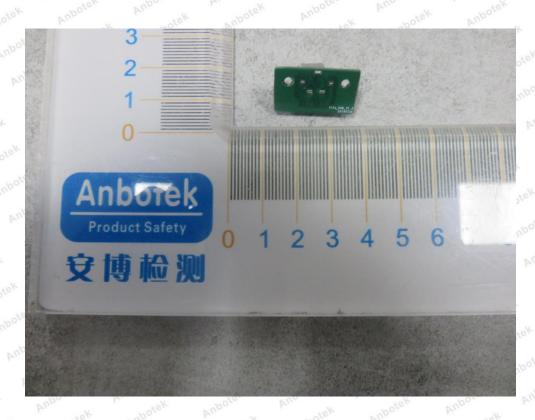




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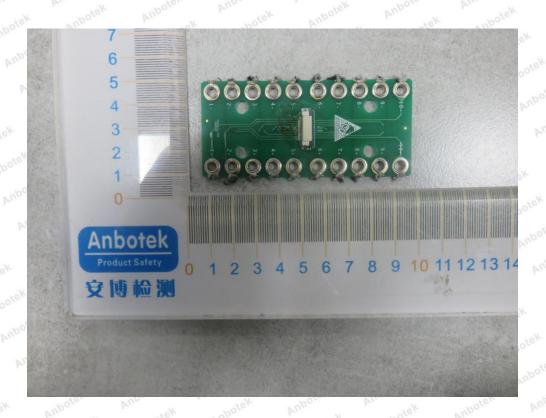
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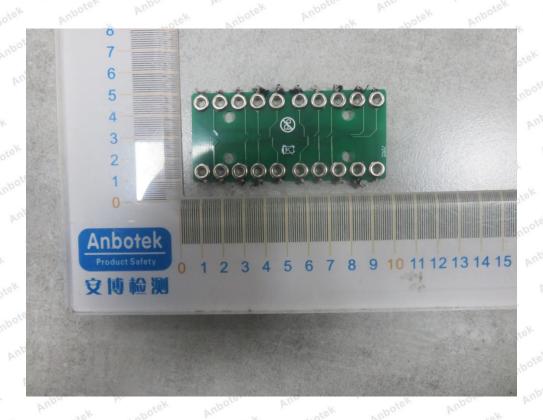






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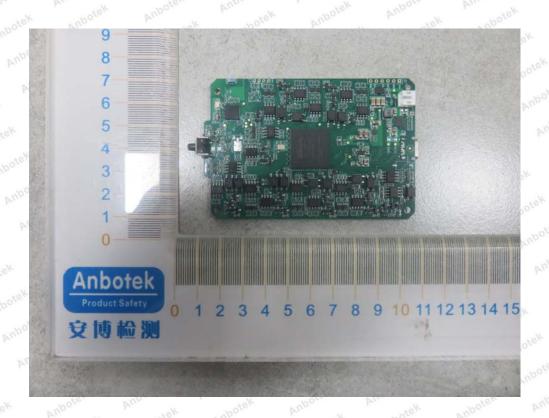
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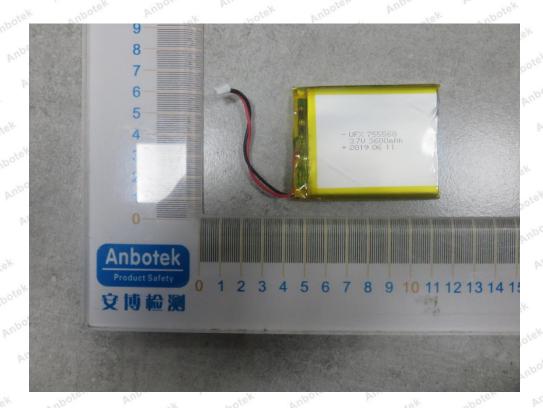






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