

Report No.: SZAWW190321008-01 FCC ID: 2AG68-BT565MS2 Page 1 of 58

FCC TEST REPORT

Client Name : Dongguan Koppo Electronics Co.,Ltd

No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village,

Address : Fenggang Town, Dongguan City, Guangdong Province,

China

Product Name : Bluetooth Earphone

Date : Apr. 12, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant Dongguan Koppo Electronics Co.,Ltd Manufacturer Dongguan Koppo Electronics Co.,Ltd

Product Name Bluetooth Earphone

BT-565MS2, BT-XXXXXX (Note: "XXXXXXV" can represent the number Model No.

in arabesques or the letter "A to Z")

Trade Mark N.A.

Rating(s) Input: DC 5V, 0.5A(with DC 3.7V, 75mAh Battery inside)

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

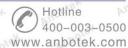
Test Method(s) ANSI C63.10: 2013

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	Mar. 21, 2019
Date of Test	Mar. 21~Apr. 11, 2019
Anbotek Product Safety	olivay larg
Prepared by *Approved*	And tok above. Ando An
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Anbotek Anbotek Anbotek Anbotek Anbotek	Snavy Meng
Reviewer	Anboten Anboten Anboten
	(Supervisor / Snowy Meng)
	Sally Zhang
Approved & Authorized Signer	upoc Mar Mupo
And Lotek Anbotek Anbo Lek botek	(Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited





1. General Information

1.1. Client Information

Applicant	: Dongguan Koppo Electronics Co.,Ltd
Address	No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China
Manufacturer	: Dongguan Koppo Electronics Co.,Ltd
Address	No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China
Factory	: Dongguan Koppo Electronics Co.,Ltd
Address	No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	: Bluetooth Earphone					
Model No.	9" in arabesques or the lette	same except the name and appearance, so we				
Trade Mark	: N.A. Anbotek Anbo	stek Anbotek Anbote And botek An				
Test Power Supply	AC 240V, 60Hz for adapter. DC 3.7V Battery inside	/ AC 120V, 60Hz for adapter/				
Test Sample No.	: 1-2-1(Normal Sample), 1-2-	1-2-1(Normal Sample), 1-2-2(Engineering Sample)				
	Operation Frequency:	2402MHz~2480MHz				
Product Description	Transfer Rate:	BT 5.0 EDR: 1/2/3 Mbits/s BT 5.0 BLE: 1 Mbits/s				
	Number of Channel:	BT 5.0 EDR: 79 Channels BT 5.0 BLE: 40 Channels				
	Modulation Type:	BT 5.0 EDR: GFSK, π/4-DQPSK, 8-DPSK BT 5.0 BLE: GFSK				
	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.

2)This report is for BDR module.

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1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: ZTE	V.
		M/N: STC-A2050I1000USBA-C	Anbo
		S/N: 201202102100876	otek Ar
þ		Input: 100-240V~ 50/60Hz, 0.3A	botek
		Output: DC 5V, 1000mA	*III

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.

TEST MODE:

Mode 1	sk Aupoter Aum potek	CH00	orek br	anbotek Ar	Poter Yupo
Mode 2	GFSK	CH39	anbo otek	Anbotek	
Mode 3	Anbotek Anbot Air	CH78	Ann	Anbotek	
Mode 4	Anboten Anbo Anbo	CH00	K And	ek Anbotek	Aupor - tek
Mode 5	π/4-DQPSK	CH39	LOK ATT	181	ing Mode/TX Only
Mode 6	k Anbotes Anbo	CH78	or bu	abotek An	porek Anbo
Mode 7	otek Anbote And botek	CH00	inbo. stek	Anbotek	
Mode 8	8-DPSK	CH39	Anbo	Anbotek	
Mode 9	Anbotek Anbote Air	CH78	Anb.	k Anbotek	Anbore

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

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	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 N	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 _k	2413	28	2430	45	2447	62	2464		0018 ^K
12 x	2414	29	2431	46	2448	63	2465		
13	2415	30 p	2432	And 47 tek	2449	64 🗥	2466		
14 nbo	2416	31	2433	48	2450	o ^{tel} 65	2467		1000
15 An	2417	32	2434	49	2451	66	2468		N N
16	2418	33	2435	50	2452	67	2469		0101

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.

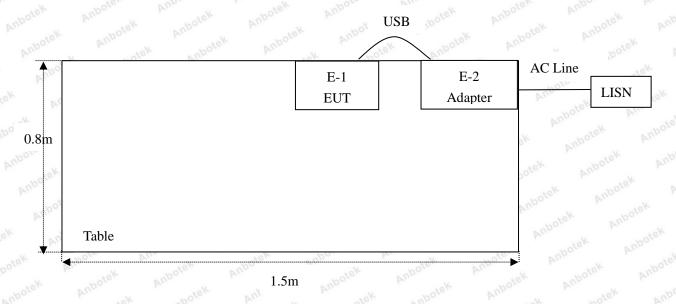


FCC ID: 2AG68-BT565MS2

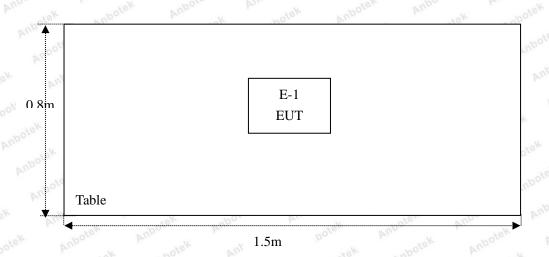
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1.6. Description Of Test Setup

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1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
inb1tek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 05, 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
, 7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
/p 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
e [¥] 11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	Anno 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	IVYTECH	IV3605	1804D360510	Apr. 02, 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 (Ho	orizontal)	otek an	botek A	hoter And
		Ur = 3.8 dB (Ve	ertical)			Anbore Ar
		Andotek	Anboten	Anbo	Anbotek	Auport
Conduction Uncertainty	:	Uc = 3.4 dB	Anbote	k And hotek	Anbotek	Aupor

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

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)(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		

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



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3. Conducted Emission Test

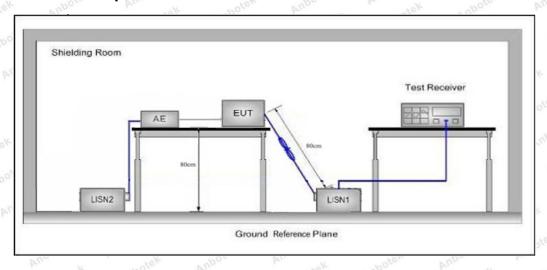
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	207 Anbotes Anbotek			
Test Limit	Fraguenay	Maximum RF L	ine Voltage (dBuV	')	
	Frequency	Quasi-peak Level Average Lev			
	150kHz~500kHz	66 ~ 56 *	56 ~ 4	l6 *	
	500kHz~5MHz	Mibotek 56 Anbou	46	otek Yup,	
	5MHz~30MHz	60 Mario	50	Anbotek A	

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, $\pi/4QPSK$, 8DPSK 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

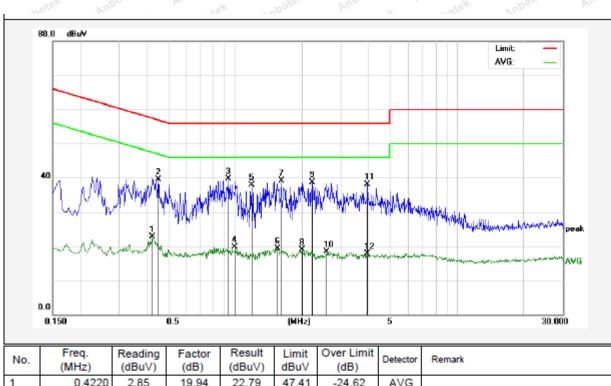
Test Site: 1# Shielded Room

Mode 1 **Operating Condition:**

Test Specification: AC 240V, 60Hz for adapter

Live Line Comment:

Tem.: 22.9℃ Hum.: 65%



	No.	Freq. (MHz)	(dBuV)	Factor (dB)	(dBuV)	Limit dBuV	(dB)	Detector	Remark
1		0.4220	2.85	19.94	22.79	47.41	-24.62	AVG	
2	2	0.4500	19.57	19.96	39.53	56.87	-17.34	QP	
3	3	0.9340	19.52	20.10	39.62	56.00	-16.38	QP	
4	ļ	0.9980	-0.46	20.12	19.66	46.00	-26.34	AVG	
5	5	1.1860	17.87	20.12	37.99	56.00	-18.01	QP	
6	6	1.5460	-0.89	20.13	19.24	46.00	-26.76	AVG	
7	7	1.6140	19.02	20.13	39.15	56.00	-16.85	QP	
8		1.9980	-1.32	20.14	18.82	46.00	-27.18	AVG	
9		2.2340	18.57	20.14	38.71	56.00	-17.29	QP	
1	0	2.5860	-1.84	20.15	18.31	46.00	-27.69	AVG	
1	1	3.9460	17.83	20.18	38.01	56.00	-17.99	QP	
1	2	3.9460	-2.39	20.18	17.79	46.00	-28.21	AVG	

Email:service@anbotek.com

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Conducted Emission Test Data

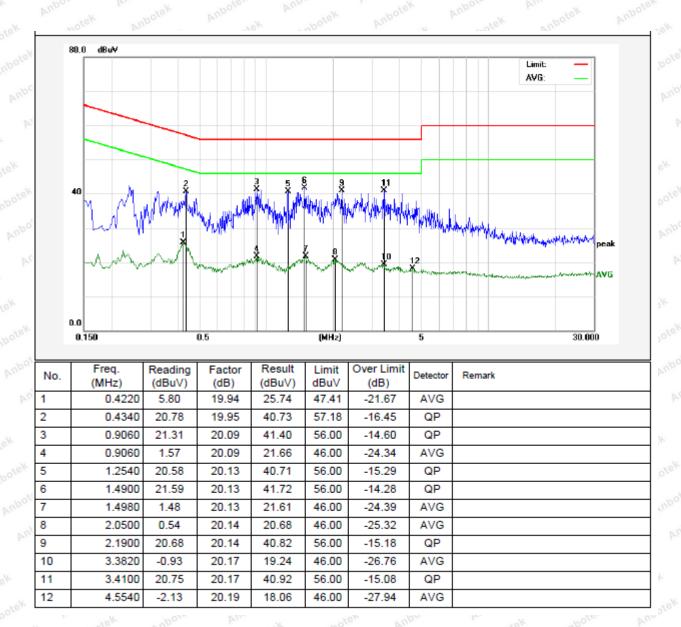
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.9℃ Hum.: 65%





Conducted Emission Test Data

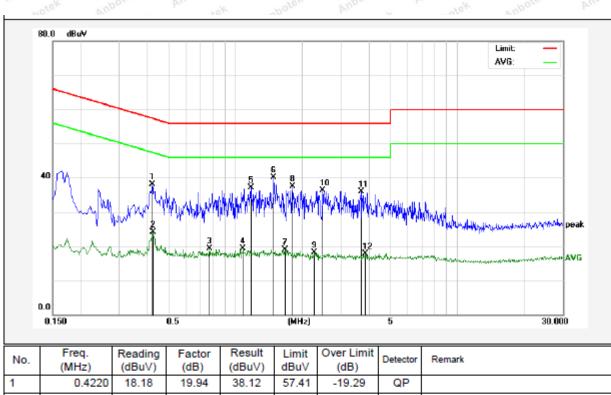
Test Site: 1# Shielded Room

Mode 1 **Operating Condition:**

Test Specification: AC 120V, 60Hz for adapter

Live Line Comment:

Tem.: 22.9℃ Hum.: 65%



No.	(MHz)	(dBuV)	(dB)	(dBuV)	dBuV	(dB)	Detector	Remark
1	0.4220	18.18	19.94	38.12	57.41	-19.29	QP	
2	0.4260	4.16	19.95	24.11	47.33	-23.22	AVG	
3	0.7660	-0.78	20.06	19.28	46.00	-26.72	AVG	
4	1.0859	-0.77	20.12	19.35	46.00	-26.65	AVG	
5	1.1780	16.91	20.12	37.03	56.00	-18.97	QP	
6	1.4940	20.00	20.13	40.13	56.00	-15.87	QP	
7	1.6740	-1.20	20.13	18.93	46.00	-27.07	AVG	
8	1.8100	17.28	20.14	37.42	56.00	-18.58	QP	
9	2.2820	-2.08	20.15	18.07	46.00	-27.93	AVG	
10	2.4620	16.18	20.15	36.33	56.00	-19.67	QP	
11	3.6820	15.68	20.17	35.85	56.00	-20.15	QP	
12	3.8500	-2.49	20.18	17.69	46.00	-28.31	AVG	

Code: AB-RF-05-a

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Conducted Emission Test Data

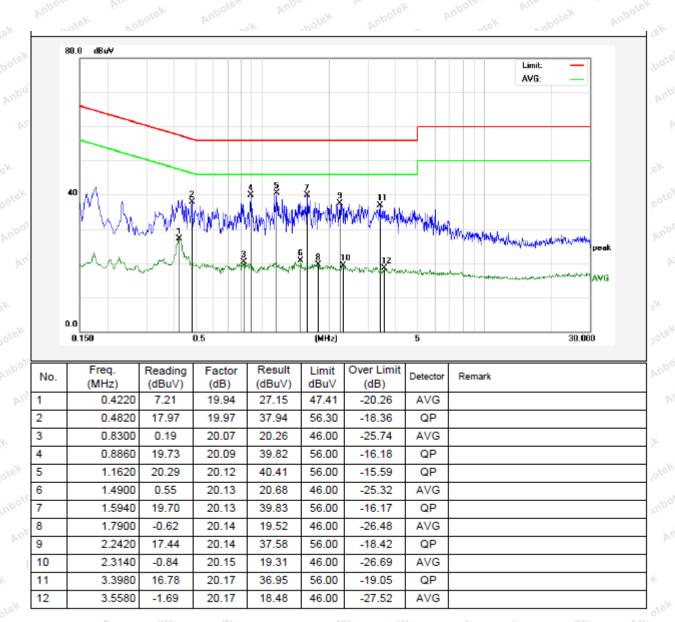
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.9℃ Hum.: 65%





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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	Ann notek	Anbotek	Anbo. A
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	nbotek- Anl	ote. Aun	300 NO
	0.490MHz-1.705MHz	24000/F(kHz)	An abotok	Aupoles Au	30
	1.705MHz-30MHz	30 m	a nbotek	Anbote. K	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	And 3 sek
	88MHz~216MHz	150	43.5 AND OLG	Quasi-peak	3 hotek
	216MHz~960MHz	200	46.0	Quasi-peak	Jak 3 abot
	960MHz~1000MHz	500	54.0	Quasi-peak	3 Am
	AUDU AUGUNALIS	500	54.0	Average	Anbor 3
	Above 1000MHz	Anbotek - Anbote	74.0	Peak	Anbox 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

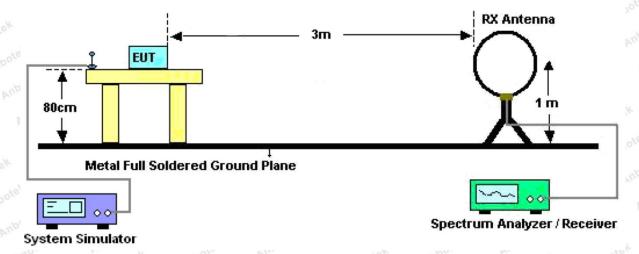


Figure 1. Below 30MHz



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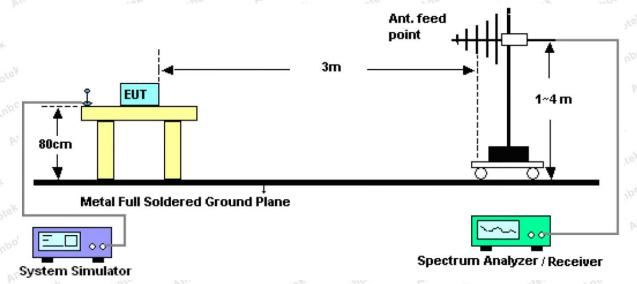


Figure 2. 30MHz to 1GHz

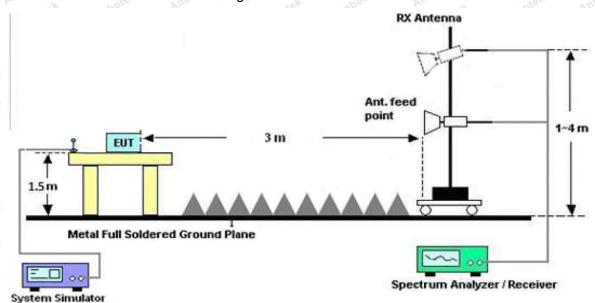


Figure 3. Above 1 GHz

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, $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation Middle channel(TX Only) 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.



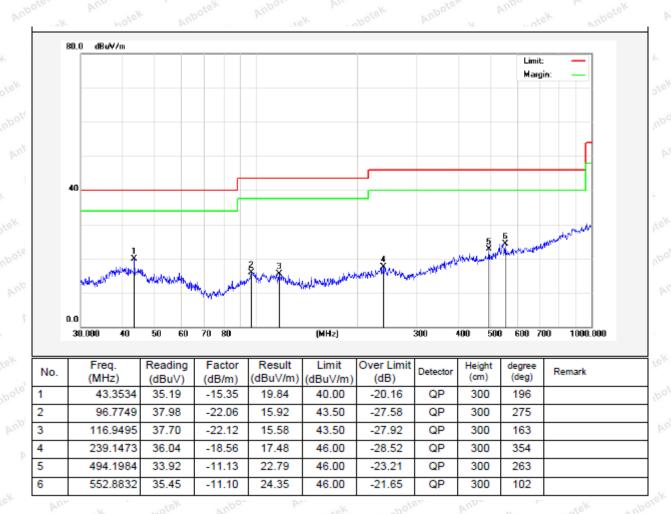
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Test Results (30~1000MHz)

SZAWW190321008-01 Job No.: Temp.(°C)/Hum.(%RH): 22.5°C/50%RH

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

Test Mode: Mode 2 Polarization: Horizontal



Code: AB-RF-05-a

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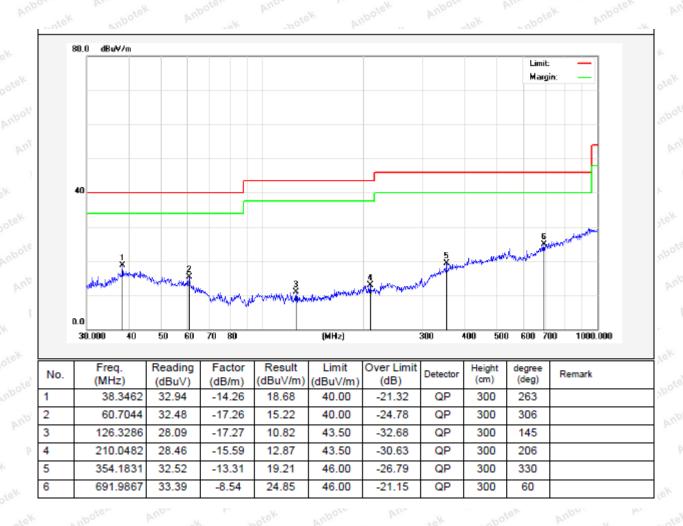
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Test Results (30~1000MHz)

SZAWW190321008-01 Job No.: Temp.(°C)/Hum.(%RH): 22.5°C/50%RH

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

Mode 2 Test Mode: Polarization: Vertical



Code: AB-RF-05-a

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Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Lov	vest		
			ſ	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	38.95	34.04	6.58	34.09	45.48	74.00	-28.52	No VK
7206.00	32.92	37.11	7.73	34.50	43.26	74.00	-30.74	V
9608.00	32.44	39.31	9.23	34.79	46.19	74.00	-27.81	V
12010.00	* Ano	tek	nbotek	Aupore	Ans	74.00	Anbor	V
14412.00	ibotek * A	¹ po-	Botek	Anboten	K Anti-	74.00	Vupor	V
4804.00	43.57	34.04	6.58	34.09	50.10	74.00	-23.90	H
7206.00	34.82	37.11	7.73	34.50	45.16	74.00	-28.84	H du
9608.00	32.02	39.31	9.23	34.79	45.77	74.00	-28.23	AUBO
12010.00	ek * anbo	TON PL	box by	botek	Anbotes	74.00	nbotek	HO
14412.00	cotek *	botek	Aupore	An abotek	Anboten	74.00	nbote	Н
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		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.
4804.00	27.45	34.04	6.58	34.09	33.98	54.00	-20.02	V
7206.00	21.42	37.11	7.73	34.50	31.76	54.00	-22.24	V
9608.00	20.40	39.31	9.23	34.79	34.15	54.00	-19.85	V
12010.00	Anbotek	Aupor	botek	Anbote	Anbe	54.00	isk Aupo	V
14412.00	Anb*tek	Aupore	ok hot	anb'	Yes Yup	54.00	potek P	V
4804.00	31.86	34.04	6.58	34.09	38.39	54.00	-15.61	AUD C
7206.00	23.70	37.11	7.73	34.50	34.04	54.00	-19.96	H
9608.00	20.26	39.31	9.23	34.79	34.01	54.00	-19.99	Н
12010.00	otel*	Anbotek	Aupore	An notek	Anbotek	54.00	SK - 400	iek H
14412.00	Yupo *ek	abotek	Aupore.	K M	lek Anbo	54.00	rek br.	botek

Code: AB-RF-05-a

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Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mic	ldle		
			ſ	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	38.10	34.38	6.69	34.09	45.08	74.00	-28.92	NOOVK
7323.00	32.35	37.22	7.78	34.53	42.82	74.00	-31.18	V
9764.00	31.94	39.46	9.35	34.80	45.95	74.00	-28.05	V
12205.00	* Ano	tek	nbotek	Aupore	Ans	74.00	Anbor	V
14646.00	ibotek * A	Upo.	Botek	Anboren	K Anti-	74.00	Vupor	V
4882.00	42.54	34.38	6.69	34.09	49.52	74.00	-24.48	H
7323.00	34.18	37.22	7.78	34.53	44.65	74.00	-29.35	H
9764.00	31.43	39.46	9.35	34.80	45.44	74.00	-28.56	ANDO
12205.00	ek * anbo	TON PL	box by	botek	Anbotes	74.00	nbotek	Ho
14646.00	cotek *	botek	Aupore	An abotek	Anboten	74.00	nbote	Н
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		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.
4882.00	26.78	34.38	6.69	34.09	33.76	54.00	-20.24	V
7323.00	20.96	37.22	7.78	34.53	31.43	54.00	-22.57	V
9764.00	19.99	39.46	9.35	34.80	34.00	54.00	-20.00	V
12205.00	Anbotek	Aupor	botek	Anbote	Anb	54.00	isk Aupo	V
14646.00	Anb*tek	Aupor	ok pot	ak Anb	Yes Yup.	54.00	potek P	V
4882.00	31.09	34.38	6.69	34.09	38.07	54.00	-15.93	AUGOR
7323.00	23.19	37.22	7.78	34.53	33.66	54.00	-20.34	H
9764.00	19.79	39.46	9.35	34.80	33.80	54.00	-20.20	Н
12205.00	-otek	Vupotek	Aupor	An- notek	Anbotek	54.00	ek - abo	ek H
14646.00	Yupe *	anbotek	Aupore	K No	lek Aupo	54.00	r G.K.	botek

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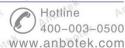
Test Results (1GHz-25GHz)

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	37.29	34.72	6.79	34.09	44.71	74.00	-29.29	VVoda
7440.00	31.82	37.34	7.82	34.57	42.41	74.00	-31.59	V
9920.00	31.46	39.62	9.46	34.81	45.73	74.00	-28.27	V
12400.00	rek * Aup	*ek	nbotek	Anbote. K	Ann	74.00	Aupor	V
14880.00	hotek * A	Upo.	Abotek	Anboren	Anbe	74.00	Aupor	V
4960.00	41.57	34.72	6.79	34.09	48.99	74.00	-25.01	H
7440.00	33.57	37.34	7.82	34.57	44.16	74.00	-29.84	H day
9920.00	30.88	39.62	9.46	34.81	45.15	74.00	-28.85	MADO
12400.00	ek * Anbo	ICK VI	Dog K	botek	Anbores	74.00	Motek	HS
14880.00	otek *	botek	Aupor	An botek	Anboten	74.00	anbote	Н
			Av	erage 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	26.19	34.72	6.79	34.09	33.61	54.00	-20.39	V
7440.00	20.57	37.34	7.82	34.57	31.16	54.00	-22.84	V
9920.00	19.64	39.62	9.46	34.81	33.91	54.00	-20.09	V
12400.00	Anbotek	Aupor	Profek	Anbote	Anbo	54.00	ek Aupe	V
14880.00	Aup \$16K	Aupore	by but	Anb	ren Vupe	54.00	potek A	V V
4960.00	30.43	34.72	6.79	34.09	37.85	54.00	-16.15	MUPON
7440.00	22.75	37.34	7.82	34.57	33.34	54.00	-20.66	H
9920.00	19.37	39.62	9.46	34.81	33.64	54.00	-20.36	Н
12400.00	otel*	nbotek	Pupote.	Anv	Anbotek	54.00	N 200	ek H
14880.00	Aupo. *	botek	Aupoten	Pun-	lek vapo	54.00	P. P.	notek

Remark:

- 1. During the test, pre-scan the GFSK, $\pi/4$ QPSK, 8DPSK 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.

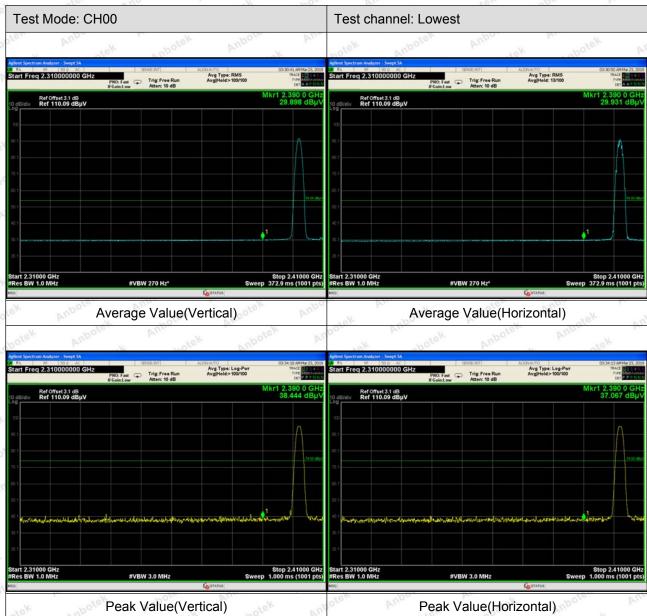
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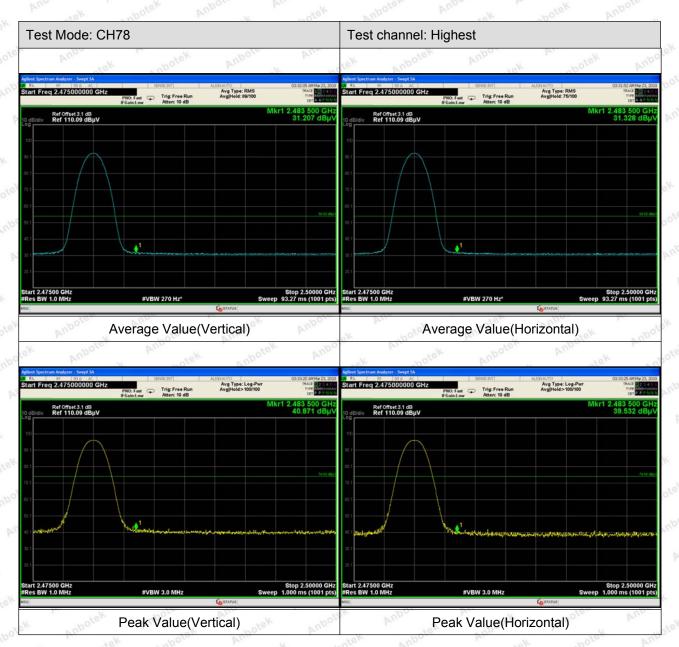
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Radiated Band Edge:





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Remark:

- 1. During the test, pre-scan the GFSK, π /4QPSK, 8DPSK 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	C Section 15.	247 (b)(3)	Anboratek	nbotek	Anbote	Du
Test Limit	125mW	Arr. hotek	Anbotek	Anbo	nbotek	Anbole	V.

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 ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.4. Test Data

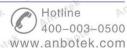
Test Item : Max. peak output power Test Mode : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 23.0° C Test Result : PASS Humidity : 52%RH

Channel Frequency (MHz)	Peak Power output (dBm)	Limit (dBm)	Results	Modulation
2402	-5.068	20.96	PASS	BDR
2441	-6.933	20.96	PASS	BDR
2480	-6.638	20.96	PASS	BDR
2402	-2.314	20.96	PASS	EDR And
2441	-4.257	20.96	PASS	Anbote EDR And
2480	-3.866	20.96	PASS	MEDR

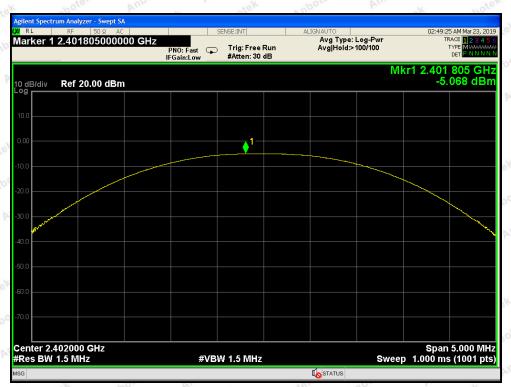
Remark: The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

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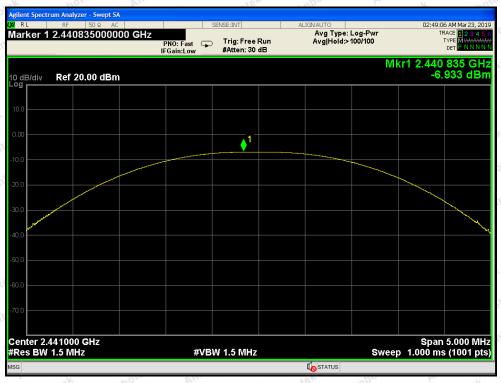




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Test Mode: BDR---Low



Test Mode: BDR---Middle

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Test Mode: BDR---High



Test Mode: EDR---Low

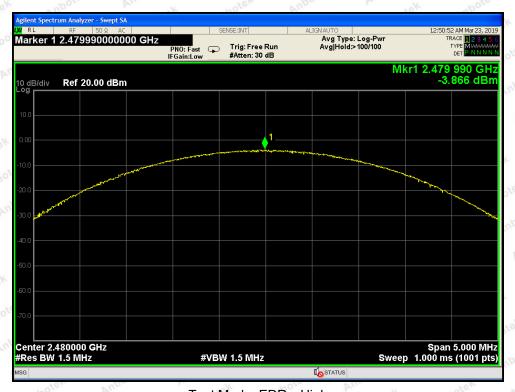


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Test Mode: EDR---Middle



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)	Anbe	abotek	Anbore A
	-16, V	1002	D'As.	101

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 : 23.0° C Test Result : PASS Humidity : 52° RH

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2402	922.1	BDR
Middle	2441	922.8	BDR
High	2480	927.0	BDR
Low	2402	1284	AND EDR
Middle	2441	1267	PEDR
abotek High Anbotek	2480	1279	nbotek EDR

Remark: The EDR was tested on (π /4QPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages.

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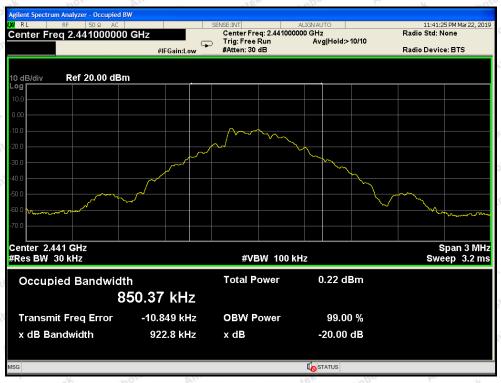
Hotline



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Test Mode: BDR---Low

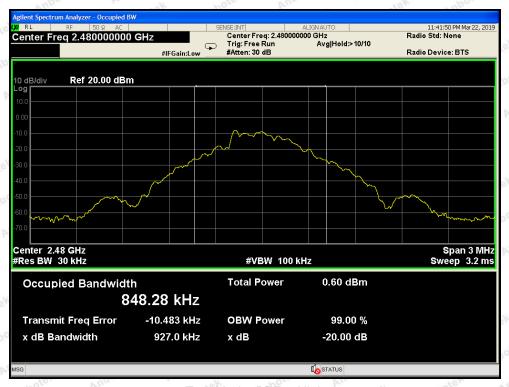


Test Mode: BDR---Middle

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Test Mode: BDR---High



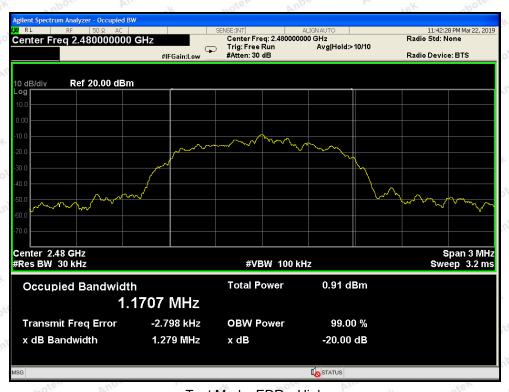
Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



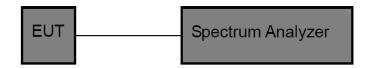
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7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anbotek	Anbote Ar
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	Anbotek	Aupor

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
Toet Voltage		DC 2.7\/ Pattony incide	Tomporaturo		22 0℃

Test Voltage : DC 3.7V Battery inside Temperature : 23.0° C

Test Result : PASS Humidity : 52° RH

Channel	Frequency	Separation Read	Limit	Modulation
	(MHz)	Value (kHz)	(kHz)	Mode
potek Low	2402	1000	922.1	BDR
Middle	2441	1000	922.8	BDR
High	2480	1000	927.0	BDR
Low	2402	1000	856.0	EDR Made
Middle	2441	1000	844.7	EDR
High	2480	1000	852.7	EDR

Remark: 1. The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

2. The limit of mode (EDR) 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 S	Section 15.2	247 (a)(1)	Ann	Anbotek	Anbore An
Test Limit	>15 channels	nbotek	Anbote.	And	Anbotek	Anbor

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

Test Voltage : DC 3.7V Battery inside : Temperature : 23.0° C Test Result : PASS : Humidity : 52° RH

Hopping Channel Frequency Range		Quantity of Hopping Channel	Quantity of Hopping Channel		
	2402-2480MHz	And tek 79 abotek Anb	>15		
	Remark: The EDR was tested on (π/40PSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in				

Remark: The EDR was tested on (π /4QPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages.

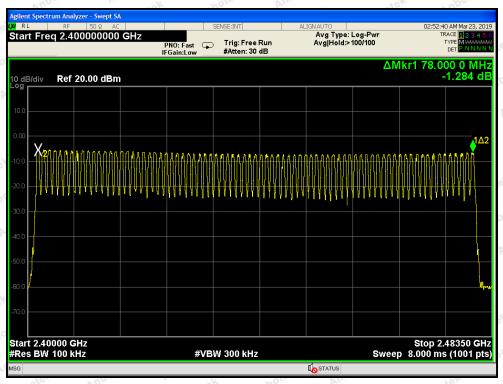
Code:AB-RF-05-a

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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 15.2	247 (a)(1)	Anbo	Anbotek	Anbote A
Test Limit	0.4 sec	A. abotek	Anbote.	Annatek	Anbotek	Aupor

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 : 23.0° C Test Result : PASS Humidity : 52%RH

Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
DH1	0.376	time slot length *1600/2 /79 * 31.6	120.32	0.4	BDR
DH3	1.635	time slot length *1600/4 /79 * 31.6	261.60	0.4	BDR
DH5	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	BDR
3DH1	0.384	time slot length *1600/2 /79 * 31.6	122.88	0.4	otek EDR Ant
3DH3	1.640	time slot length *1600/4 /79 * 31.6	262.40	0.4	EDR
3DH5	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	EDR

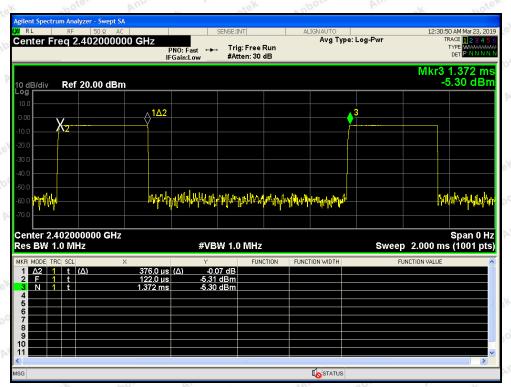
Remark: The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

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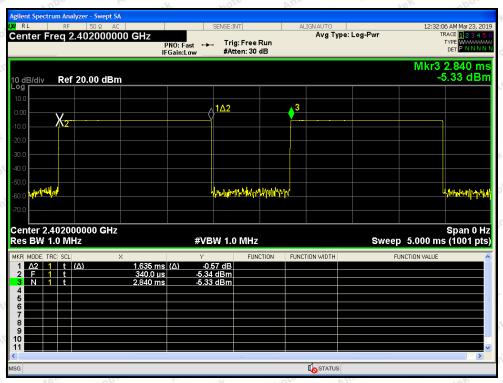




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Test Mode: BDR---DH1

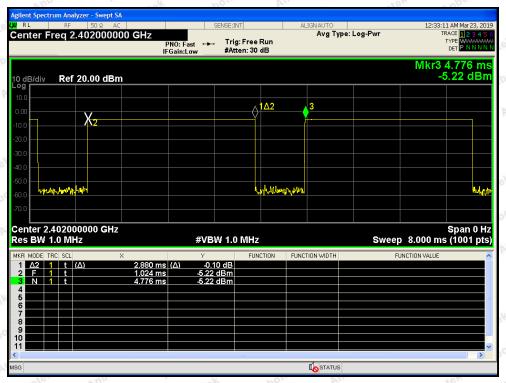


Test Mode: BDR---DH3

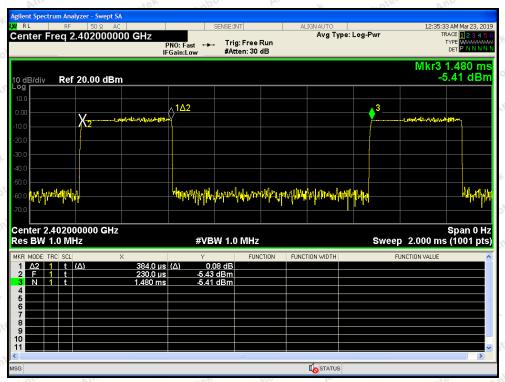
Hotline 400-003-0500 www.anbotek.com



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Test Mode: BDR---DH5

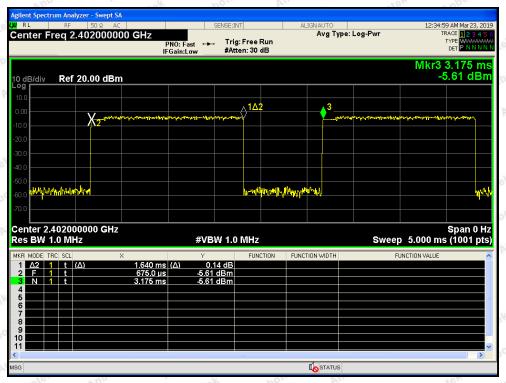


Test Mode: EDR---3DH1

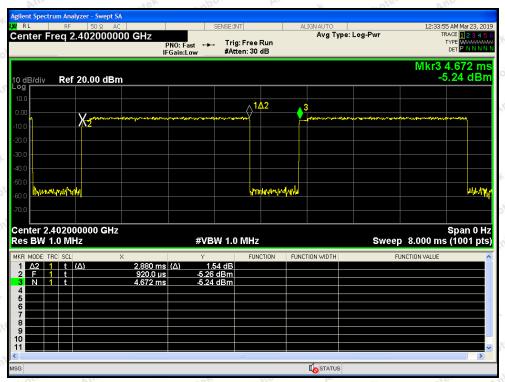
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Test Mode: EDR---3DH3



Test Mode: EDR---3DH5



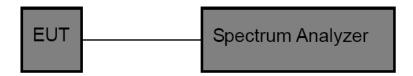
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10. 100kHz Bandwidth of Frequency Band Edge Requirement

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 limits specified in 15.209(a).

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

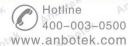
10.4. Test Data

Test Item : Band edge : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 23.0° C Test Result : PASS Humidity : 52° RH

Remark: The EDR was tested on (π /4QPSK, 8DPSK) modes, only the worst data of (π /4DQPSK) is attached in the following pages.

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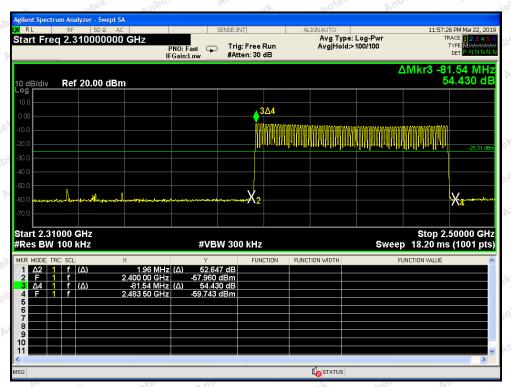




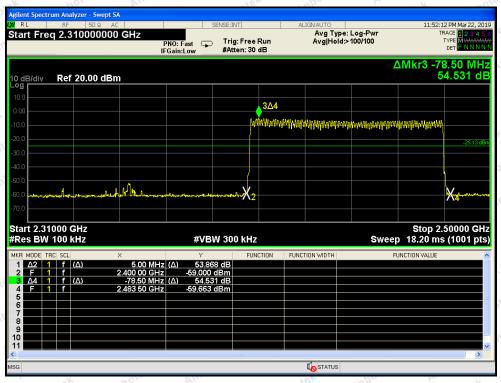
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For Hopping Mode



BDR mode



EDR mode

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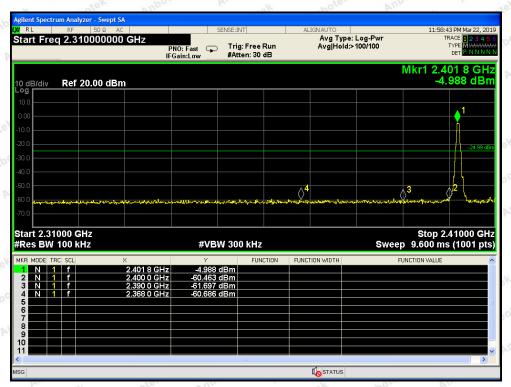
Hotline 400-003-0500 www.anbotek.com



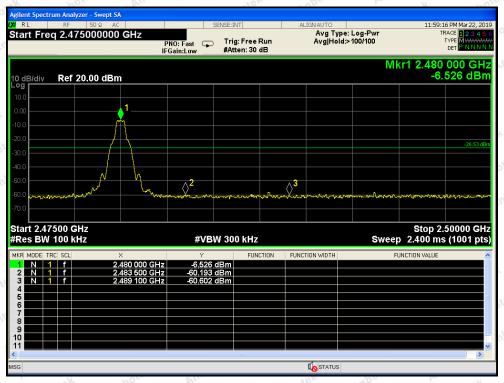
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For Non-Hopping Mode



BDR mode -- Lowest



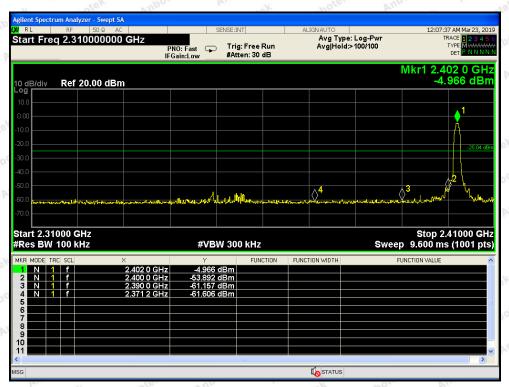
BDR mode -- Highest



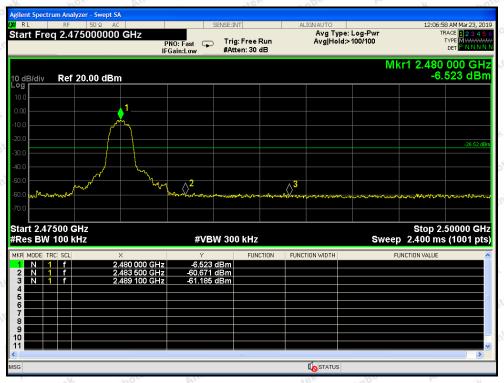
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For Non-Hopping Mode



EDR mode -- Lowest



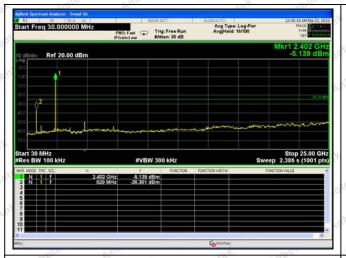
EDR mode -- Highest

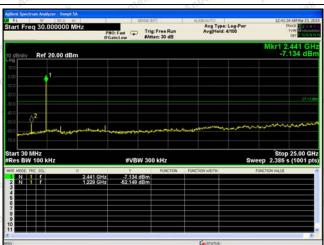


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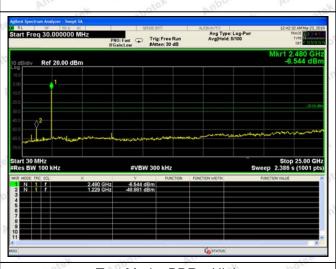
Conducted Emission Method

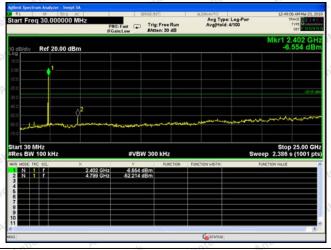




Test Mode: BDR---Low

Test Mode: BDR---Mid

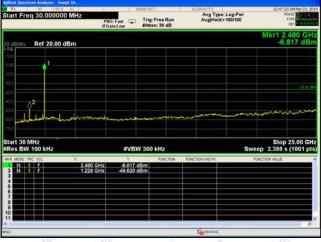




Test Mode: BDR---High

Test Mode: EDR---Low







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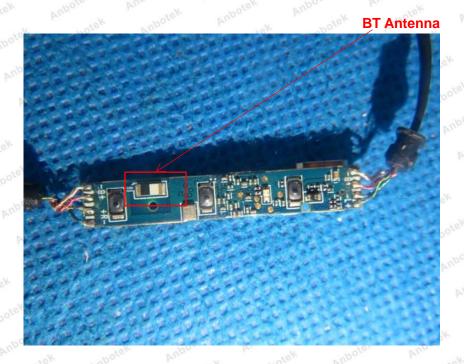
11. Antenna Requirement

11.1. Test Standard and Requirement

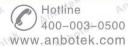
Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses 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

11.2. Antenna Connected Construction

The antenna is 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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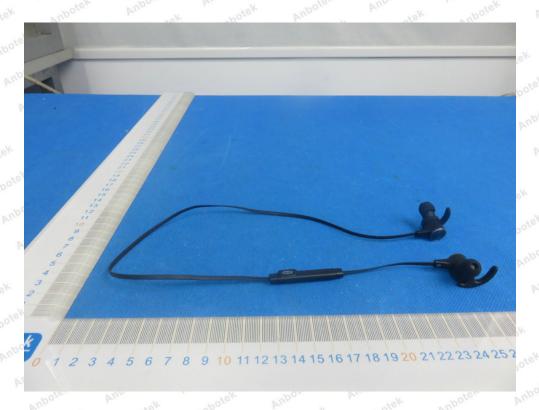
APPENDIX II -- EXTERNAL PHOTOGRAPH







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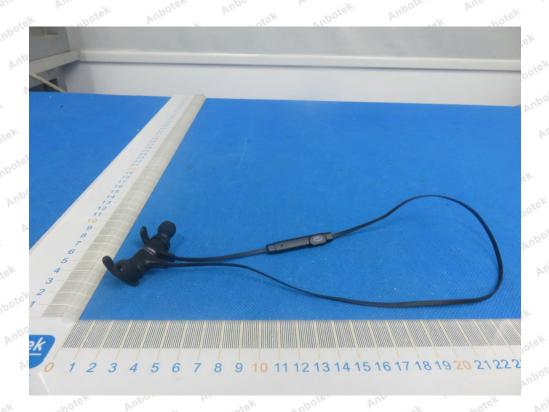




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APPENDIX III -- INTERNAL PHOTOGRAPH

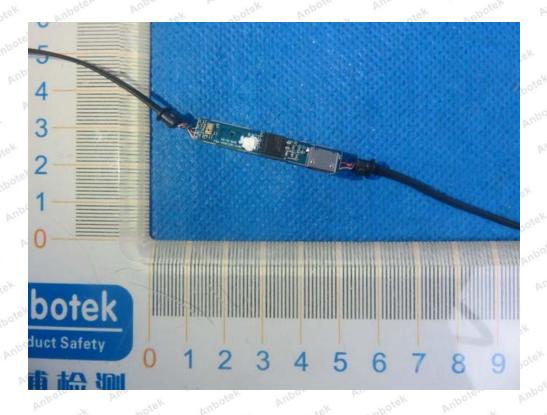




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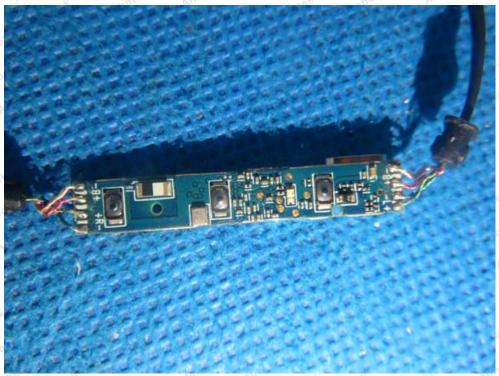


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----- End of Report -----

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