

Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 1 of 57

FCC TEST REPORT

Client Name : Shenzhen Oceantech Electronics Co., Ltd

Baoan Zhigu Science and Technology Park, Yintian

Address : Road, Xixiang Street, Bao'an District, Shenzhen,

Guangdong, China

Product Name : Bluetooth Speaker

Date : Jul. 24, 2017

Shenzhen Anbotek Compliance Laboratory Limited



FCC ID: 2AJ5Q-OS441

Page 2 of 57

Contents

1. General Information				Anp			5
1.1. Client Information	ootek D	Wpo.	br. Cotel	نوپي	oter	Ambo	5
1.2. Description of Device (EUT) 1.3. Auxiliary Equipment Used Durin	Hotek	Mapote.	Ant		potek	Anboro	5
1.3. Auxiliary Equipment Used Durin	ıg Test		Amb		******************************	,,obol	6
1.4. Description of Test Modes	Anbo	F	tek	bote.	Anv		6
1.5. List of channels	Pupore	An		""Potek	Vupo,		7
1.6. Description Of Test Setup	20,,,,,,,,,,,,/	otek A	ypu		/c	oote.	8
1.7. Test Equipment List		-uotek	Anbore	Nur	Vay	"ipofek	9
1.7. Test Equipment List 1.8. Measurement Uncertainty	10r P.		,,boten	Ant		Work.	10
1.8. Measurement Uncertainty 1.9. Description of Test Facility 2. Summary of Test Results 3. Conducted Emission Test	upoter.	Anb		le _K	uporc	Nu.	10
2. Summary of Test Results	otek	Anbore	Pro-		Mhoten	Anbo	11
Summary of Test Results Conducted Emission Test		, , , , , , , , , , , , , , , , , , ,	Te, V			^N 20	12
3.1. Test Standard and Limit	Anv		lootek	Anbor	, p.,		12
3.2. Test Setup	Anbo)		Kupote	Am		12
3.3. Test Procedure	18 N	opore.	Anv		otek.	YUpo.	12
3.4. Test Data							
4. Radiation Spurious Emission and Band	d Edge		pobo!	P			15
4.1. Test Standard and Limit4.2. Test Setup	- Anbore	P.L.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	potek	Aupo	//	15
4.2. Test Setup	Alpoter	Anbo		-botek	- pulpore	An.	15
4.3. Test Procedure		re _K bu	por	Vir.		otek	16
4.3. Test Procedure			Kupoter	Anbe		-dotek	17
5. Maximum Peak Output Power Test	oter An		otek	dna			25
5.1. Test Standard and Limit	"potek	Anbor	b.,		poter	Anbe	25
5.2. Test Setup		Kupo _{fer}	Anb		otek	AUPOL	25
5.3. Test Procedure	Anv Tek		e _K Vu	,		6	25
5.4. Test Data	And		494	700r	by.		25
6. 20DB Occupy Bandwidth Test	, p.1001	An.		hotek	Anb	o. b	29
6.1. Test Standard		otek	Anbo	Pr.	re _k	who te.	29
6.2. Test Setup		-Notek	Mpore	Ann		otek	29
6.3. Test Procedure	Vpor	VII.	V.190fc		100		29
6.4. Test Data	- Kupo _{fer}	Anba	/k	otek	popore	No.	29
7. Carrier Frequency Separation Test	- upotek	- Aupor	bis.		Allbote	Anb	33
7.1. Test Standard and Limit		177 <u>4</u>	oter	7.U.D.		te _K	33
7.2. Test Setup	Anv		Totek	PUPOL	bi.	tok	33
7.3. Test Procedure	10 ^K An ¹		work	bo ^l	.e	UD.	33
7.4. Test Data	,001.01×	Kupote,	Anv		gotek	Vupor	33
8. Number of Hopping Channel Test		- Nootek	Anbor	P.	yek	Anboter	37
6.2. Test Setup	Aupo		K pag	o't'e'	YUN YOK		37
8.2. Test Setup	Aupore	N Vur		MeOtek	Anbo	Pr.	37
tak about All	270				0-400	AD DE O	Uk



Report No.: SZAWW190711009-01	FCC ID: 2AJ50	Q-OS441	Page 3 of	57
8.3. Test Procedure		. Aar	104 Notes	37
8.4. Test Data	700 May	Vupor V	" potek	37
9. Dwell Time Test	Aupor An An	supoter.	Anbor	39
9. Dwell Time Test	Anu Anu	wotek.	Anbore	39
9.2. Test Setup	hotek Anbo		, boter	39
9.3. Test Procedure	by.	ibote. And		39
9.2. Test Setup	Ke. And	Pofek Vupo		39
10. 100kHz Bandwidth of Frequency Band Ed	dge Requirement		Por	43
10.1. Test Standard and Limit	otek anbo	Pr.	note. D	43
10.2. Test Setup	No.	Anbo	b. Kek	43
10.2. Test Setup 10.3. Test Procedure	Yupa	ek hupote	No.	43
10.4. 100t Data	• • • • • • • • • • • • • • • • • • • •			43
11. Antenna Requirement	ak Rodon Ar		6 K	48
11.1. Test Standard and Requirement		Athone Att	/dn	48
11.2. Antenna Connected Construction	bor All	aboten An	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	48
APPENDIX I TEST SETUP PHOTOGRAPI		Toolek	Anbote A	49
APPENDIX II EXTERNAL PHOTOGRAPH		P.V.	Muhoten.	51
APPENDIX III INTERNAL PHOTOGRAPH				55



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 4 of 57

TEST REPORT

Applicant : Shenzhen Oceantech Electronics Co., Ltd

Manufacturer : Shenzhen Oceantech Electronics Co., Ltd

Product Name : Bluetooth Speaker

Model No. : OS-441, 18726, SP873

Trade Mark : N.A.

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

Prepared by

Anbotek
Prepared by

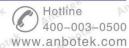
Anbotek
Preceipt Anbotek
Prepared Signer

(Supervisor / Snowy Meng)

Sally zhang

(Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited





1. General Information

1.1. Client Information

Applicant	: Shenzhen Oceantech Electronics Co., Ltd
Address	Baoan Zhigu Science and Technology Park, Yintian Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Manufacturer	: Shenzhen Oceantech Electronics Co., Ltd
Address	Baoan Zhigu Science and Technology Park, Yintian Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Factory	: Shenzhen Oceantech Electronics Co., Ltd
Address	Baoan Zhigu Science and Technology Park, Yintian Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

Product Name	Bluetooth Speaker	Anbotek Anbotek Anbotek					
Model No.	OS-441, 18726, SP873 Note: All samples are the same ex OS-441" for test only.)	cept the model name, so we prepare					
Trade Mark	N.A. Anbotek Anbotek A	hootek Anbotek Anbotek Anbotek					
Test Power Supply	AC 120V, 60Hz for adapter DC 3.7V Battery inside						
Test Sample No.	1-2-1(Normal Sample), 1-2-2(Engineering Sample)						
	Operation Frequency: 2402~248	0MHz					
u.	Fransfer Rate: 1/2/3 Mbit	s/s dek Anbotek Anbote					
Product	Number of Channel: 79 Channel	els potek Anbotek Anbotek					
Description	Modulation Type: GFSK, л	/4-DQPSK, 8-DPSK					
	Antenna Type: PCB Ante	nna Anbotek Anbotek Anbotek					
	Antenna Gain(Peak): 2 dBi	botek Anbote And Anbotek Anbotel					

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





Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 6 of 57

1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: ZTE	hoter	Anbonotek	Anbotek P	Anbo
		M/N: STC-A2050I1000USBA-C	Anbore	Anbantek	anbotek	Pr
		S/N: 201202102100876				
		Input: 100-240V~ 50/60Hz, 0.3A				4
		Output: DC 5V, 1000mA	Dr.	stek sab	oter Ano	No.

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	ak Anbote And botek	CH00	o. Arek	Anbotek Anbotes Anb
Mode 2	GFSK	CH39	anbo otek	Anbotek Anbote Anu
Mode 3	Anbotek Anbot Air	CH78	Anna	Anbotek Anbote A
Mode 4	Anbotek Anbo otek	CH00	K And hot	ek Anbotek Anbote
Mode 5	π/4-DQPSK	CH39	Lak And	TX+Charging/TX Only
Mode 6	k Anboten Anbotek	CH78	or by	abotek Anbotek Anbo
Mode 7	otek Anbore Ant botek	CH00	inpo.	Anbotek Anboten Anb
Mode 8	8-DPSK	CH39	Anbo	Anbotek Anbotes A
Mode 9	Anbotek Anbote An	CH78	Anbo	k Anbotek Anbote

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.



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 7 of 57

1.5. List of channels

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 Ant	2463	78	2480
11,00°	2413	28	2430	45	2447	62	2464		
12	2414	29	2431	46	2448	63	2465		
13	2415	30	2432	47	2449	64	2466		
14	2416	31	2433	48	2450	65	2467		2018
15	2417	32	2434	49	2451	66	2468		
16	2418	33	2435	50	2452	67	2469		All

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.

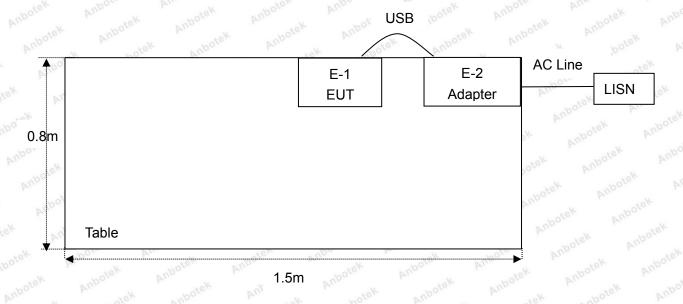


FCC ID: 2AJ5Q-OS441

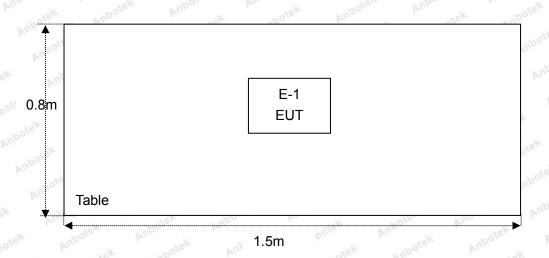
Page 8 of 57

1.6. Description Of Test Setup

CE



RE



Shenzhen Anbotek Compliance Laboratory Limited



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 9 of 57

1.7. Test Equipment List

Item Equipment		Equipment Manufacturer		Serial No.	Last Cal.	Cal.
nb9tek	L.I.S.N. Artificial Mains	Rohde & Schwarz	ENV216	100055	Nov. 26, 2018	Interval 1 Year
2.	Network 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 _{kn} k	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
_{te} _k 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	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





Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 10 of 57

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	ipo otek vi	ibotek Ar	Pole, Vun
		Ur = 3.8 dB (Vertical)	And		Anbore Ar
		Anbotek Anbote	Ann	Anbotek	Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	ek Ans	Anbotek	Anbo.

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



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 11 of 57

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 abbr	eviation for Not Applicable.	Josek Anboutek



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 12 of 57

3. Conducted Emission Test

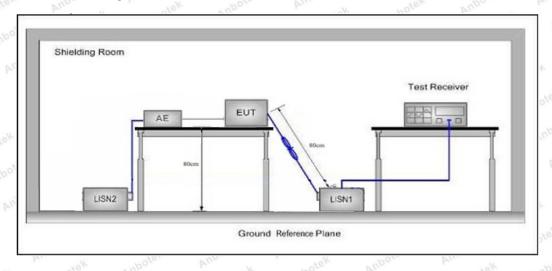
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	07 Ambotte Amb	
Test Limit	Francis	Maximum RF L	ine Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56×1000	46
	5MHz~30MHz	Anbotek 60 Anbote	Andrew 50 Andrew Ar

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.

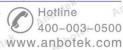
The bandwidth of test receiver (ESCI) set at 9kHz.

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.

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: SZAWW190711009-01 Page 13 of 57 FCC ID: 2AJ5Q-OS441

Conducted Emission Test Data

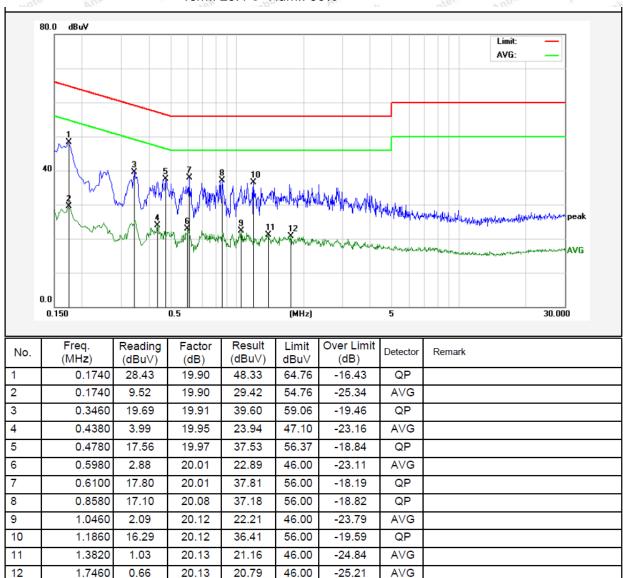
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 23.4℃ Hum.: 56%





Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 14 of 57

Conducted Emission Test Data

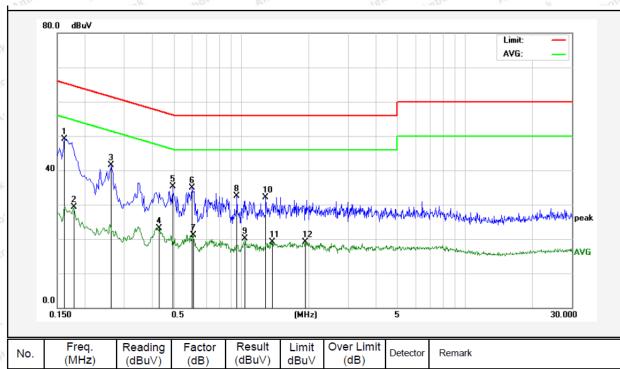
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 23.4℃ Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBu∀	Over Limit (dB)	Detector	Remark
1	0.1620	29.26	19.90	49.16	65.36	-16.20	QP	
2	0.1780	9.38	19.90	29.28	54.57	-25.29	AVG	
3	0.2620	21.67	19.89	41.56	61.36	-19.80	QP	
4	0.4300	3.10	19.95	23.05	47.25	-24.20	AVG	
5	0.4940	15.32	19.98	35.30	56.10	-20.80	QP	
6	0.6020	14.81	20.01	34.82	56.00	-21.18	QP	
7	0.6100	1.11	20.01	21.12	46.00	-24.88	AVG	
8	0.9580	12.35	20.11	32.46	56.00	-23.54	QP	
9	1.0420	-0.10	20.12	20.02	46.00	-25.98	AVG	
10	1.2860	12.07	20.13	32.20	56.00	-23.80	QP	
11	1.3779	-1.04	20.13	19.09	46.00	-26.91	AVG	
12	1.9300	-1.05	20.14	19.09	46.00	-26.91	AVG	

Hotline 400-003-0500



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441

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	Aur	Anbotek	Anbo. A
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	nbotek Ani	Ose Pur	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbotek	Aupolo, - Au	30
	1.705MHz-30MHz	30	Anbotek	Anbore Lok	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3 otek
	88MHz~216MHz	150	43.5 Moote	Quasi-peak	ak 3 botek
	216MHz~960MHz	200	46.0	Quasi-peak	3 3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Ab ave 4000ML	500	54.0	Average	Aupor 3
	Above 1000MHz	Anbotek - Anbote	74.0	Peak	Anbo 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

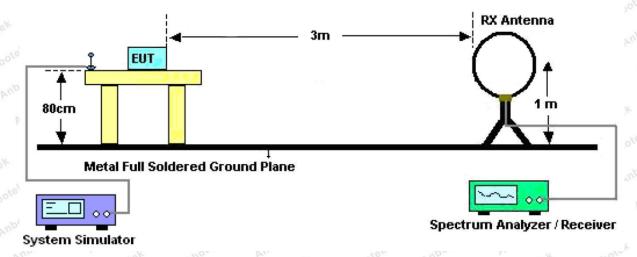


Figure 1. Below 30MHz



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 16 of 57

Ant. feed point

Metal Full Soldered Ground Plane

System Simulator

Spectrum Analyzer / Receiver

Figure 2. 30MHz to 1GHz

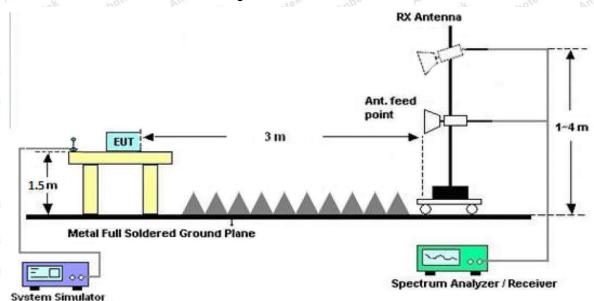


Figure 3. Above 1 GHz

4.3. Test Procedure

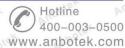
For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

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:

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 17 of 57

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, $\pi/4QPSK$, 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.



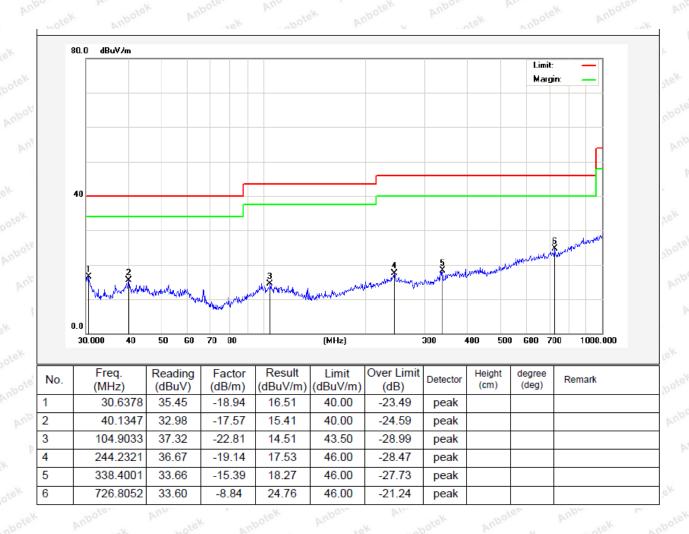
Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 18 of 57

Test Results (30~1000MHz)

SZAWW190711009-01 Job No.: Temp.($^{\circ}$ C)/Hum.($^{\circ}$ RH): 24.9°C/51%RH

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

Test Mode: Mode 2 Polarization: Horizontal





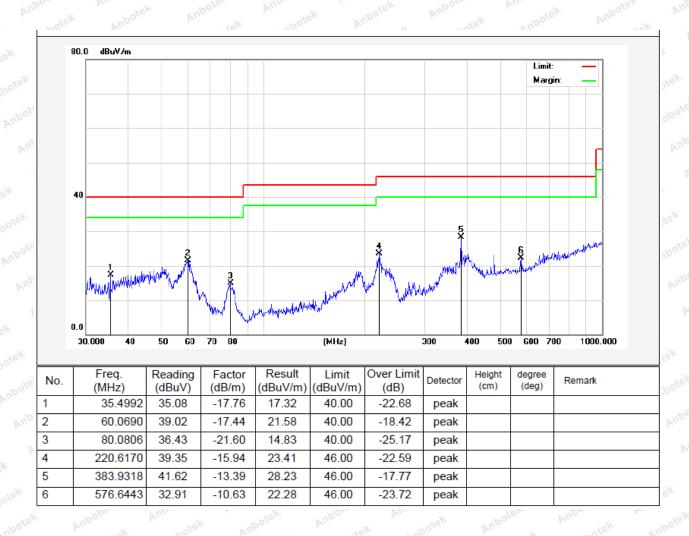
Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 19 of 57

Test Results (30~1000MHz)

Job No.: SZAWW190711009-01 Temp.(℃)/Hum.(%RH): 24.9℃/51%RH

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

Test Mode: Mode 2 Polarization: Vertical





Report No.: SZAWW190711009-01 Page 20 of 57 FCC ID: 2AJ5Q-OS441

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	35.55	34.04	6.58	34.09	42.08	74.00	-31.92	No VX
7206.00	30.67	37.11	7.73	34.50	41.01	74.00	-32.99	V
9608.00	30.43	39.31	9.23	34.79	44.18	74.00	-29.82	V
12010.00	* Anb	otek k	anbotek	Anboto	Pur Potek	74.00	Vupo.	V
14412.00	(botel * A	100 rek	abotek	Anboten	k Ann	74.00	Anbor	V
4804.00	39.48	34.04	6.58	34.09	46.01	74.00	-27.99	H
7206.00	32.27	37.11	7.73	34.50	42.61	74.00	-31.39	H du
9608.00	29.69	39.31	9.23	34.79	43.44	74.00	-30.56	Vupo,
12010.00	ek * Anbo	lek AL	bo, b,	abotek	Anboren	74.00	Anbotek	H
14412.00	notek *	botek	Aupor	A botek	Anboten	74.00	Anbote	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	24.70	34.04	6.58	34.09	31.23	54.00	-22.77	V
7206.00	19.55	37.11	7.73	34.50	29.89	54.00	-24.11	V
9608.00	18.74	39.31	9.23	34.79	32.49	54.00	-21.51	V
12010.00	Anbote*	Aupo	nbotek	Anbore	K Ant	54.00	ok Aupe	V
14412.00	Anb*tek	Aupor	ok abott	ak Anb	Y. Aup.	54.00	ootek A	V
4804.00	28.73	34.04	6.58	34.09	35.26	54.00	-18.74	MUPOL
7206.00	21.61	37.11	7.73	34.50	31.95	54.00	-22.05	H
9608.00	18.32	39.31	9.23	34.79	32.07	54.00	-21.93	Н
12010.00	"otel*	Anbotek	Auport	An botek	Anbotek	54.00	K anbo	ek H
14412.00	***	nbotek	Anbore	K M	lek Anbo	54.00	rek	botek



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 21 of 57

Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mic	ldle		
			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.
4882.00	41.49	34.38	6.69	34.09	48.47	74.00	-25.53	Noo VK
7323.00	34.61	37.22	7.78	34.53	45.08	74.00	-28.92	V
9764.00	33.94	39.46	9.35	34.80	47.95	74.00	-26.05	V
12205.00	* And	16K	abotek	Anboto	Am	74.00	Aupor	V
14646.00	(botel * A	upo rek	, abotek	Anboten	k And	74.00	Anbox	V
4882.00	46.63	34.38	6.69	34.09	53.61	74.00	-20.39	H
7323.00	36.73	37.22	7.78	34.53	47.20	74.00	-26.80	'upor
9764.00	33.76	39.46	9.35	34.80	47.77	74.00	-26.23	Aupo,
12205.00	ek * Anbo	lek Vi	bor b	botek	Anboten	74.00	Anbotek	H
14646.00	notek *	botek	Pupor **	abotek	Anboren	74.00	anbote	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	29.55	34.38	6.69	34.09	36.53	54.00	-17.47	V
7323.00	22.84	37.22	7.78	34.53	33.31	54.00	-20.69	V
9764.00	21.66	39.46	9.35	34.80	35.67	54.00	-18.33	V
12205.00	Anbotek	Vupo.	A nbotek	Vupote.	Y Amb	54.00	ek Pupo	V
14646.00	Anb*lek	Aupor	ok aboti	Anbe	Yes Yup	54.00	ootek A	V
4882.00	34.24	34.38	6.69	34.09	41.22	54.00	-12.78	Aubor
7323.00	25.29	37.22	7.78	34.53	35.76	54.00	-18.24	H
9764.00	21.74	39.46	9.35	34.80	35.75	54.00	-18.25	Н
12205.00	"otel*	Anbotek	Aupor	P. Potek	Anbotek	54.00	K 2000	ek H
14646.00	*ups *ek	anbotek	Pupor	K NO	lek Aupo	54.00	16K	botek



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 22 of 57

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	35.19	34.72	6.79	34.09	42.61	74.00	-31.39	NOOV.
7440.00	30.43	37.34	7.82	34.57	41.02	74.00	-32.98	V
9920.00	30.22	39.62	9.46	34.81	44.49	74.00	-29.51	V
12400.00	* And	16K	abotek	Anboto	Ann	74.00	Anbor	V
14880.00	(botel * A	100 rek	, abotek	Anboten	k And	74.00	Aupon	V
4960.00	39.04	34.72	6.79	34.09	46.46	74.00	-27.54	H
7440.00	31.99	37.34	7.82	34.57	42.58	74.00	-31.42	upor H
9920.00	29.44	39.62	9.46	34.81	43.71	74.00	-30.29	Aupo
12400.00	ek * Anbo	lek Vi	bor b	abotek	Anboren	74.00	Anbotek	HS
14880.00	notek *	botek	Pupor **	abotek	Anboren	74.00	arbote	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.
4960.00	24.42	34.72	6.79	34.09	31.84	54.00	-22.16	V
7440.00	19.37	37.34	7.82	34.57	29.96	54.00	-24.04	V
9920.00	18.57	39.62	9.46	34.81	32.84	54.00	-21.16	V
12400.00	Anbotek	Vupo.	A nbotek	Vupote.	Y Amb	54.00	ek Aupo	V
14880.00	Anb*lek	Aupor	ok aboti	Anbe	Yes Yup	54.00	ootek A	V
4960.00	28.42	34.72	6.79	34.09	35.84	54.00	-18.16	Vubon
7440.00	21.40	37.34	7.82	34.57	31.99	54.00	-22.01	$\mathbf{H}_{\mathbb{R}}$
9920.00	18.13	39.62	9.46	34.81	32.40	54.00	-21.60	Н
12400.00	"otel*	Anbotek	Aupor	P. Potek	Anbotek	54.00	k who	ek H
14880.00	*ups *ek	anbotek	Pupore	K NO	lek Aupo	54.00	rek h	poteK

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
- 3. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Shenzhen Anbotek Compliance Laboratory Limited





FCC ID: 2AJ5Q-OS441

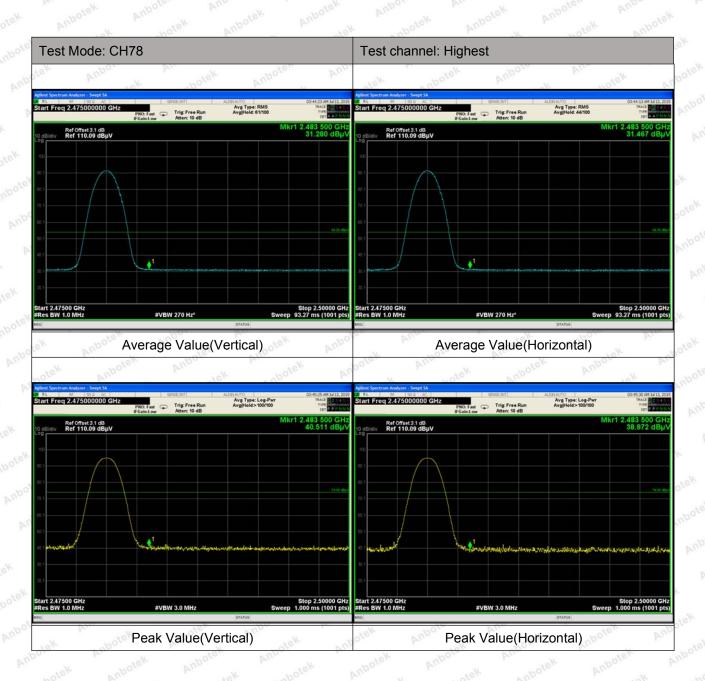
Page 23 of 57

Radiated Band Edge:





Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 24 of 57



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



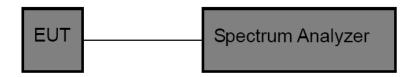
Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 (C Section 15.	247 (b)(3)	Anbootek	Anbotek	Anbore	Vier
Test Limit	125mW	Al. abotek	Anboten	Anbo	Anbotek	Anboro	F

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 :	22.6℃
Test Result	:	PASS	Humidity :	51%RH

Channel Frequency (MHz)	Peak Power output (dBm)	Limit (dBm)	Results	Modulation
2402	-0.434	20.96	PASS	BDR
2441	-0.724	20.96	PASS	BDR
2480	1.780	20.96	PASS	BDR Model
2402	-0.997	20.96	PASS	EDR
2441	-1.481	20.96	PASS	EDR
2480	0.799	20.96	PASS	EDR

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

Shenzhen Anbotek Compliance Laboratory Limited



FCC ID: 2AJ5Q-OS441

Page 26 of 57



Test Mode: BDR---Low



Test Mode: BDR---Middle



FCC ID: 2AJ5Q-OS441

Page 27 of 57



Test Mode: BDR---High



Test Mode: EDR---Low

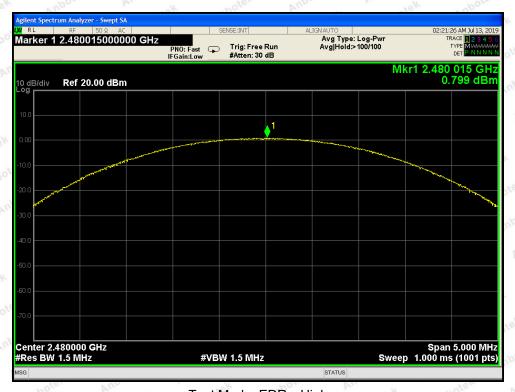


FCC ID: 2AJ5Q-OS441

Page 28 of 57



Test Mode: EDR---Middle



Test Mode: EDR---High



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 29 of 57

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

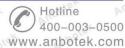
Test Item : 20dB BW Test Mode : CH Low ~ CH High

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

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode		
Low Manage	2402	900.3	BDR		
Middle	2441	933.9	BDR		
High	2480	939.5	BDR		
Low	2402	1269.0	EDR		
Middle	2441	1266.0	EDR		
nbotek High nbote	2480	1265.0	EDR EDR		

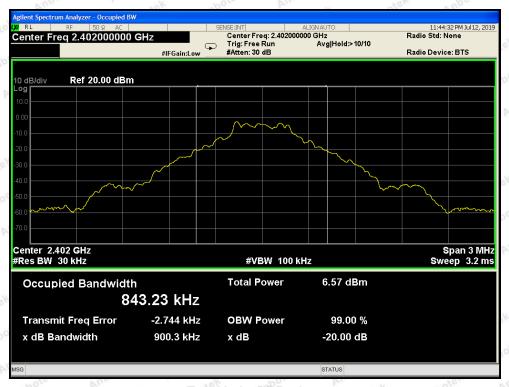
Remark: The EDR was tested on $(\pi/4DQPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages



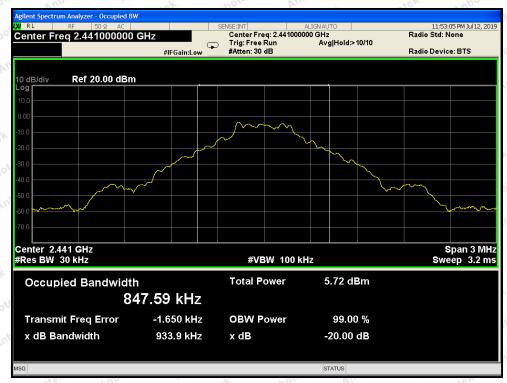




Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 30 of 57



Test Mode: BDR---Low



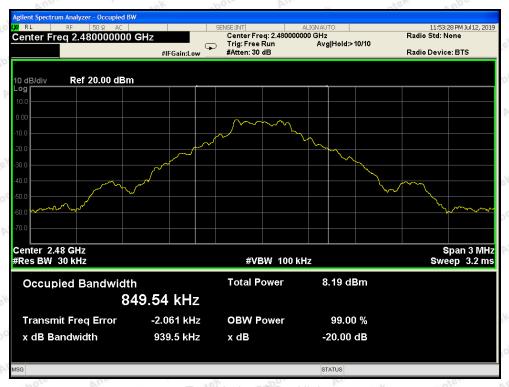
Test Mode: BDR---Middle

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



Page 31 of 57 Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441



Test Mode: BDR---High



Test Mode: EDR---Low

Code: AB-RF-05-a

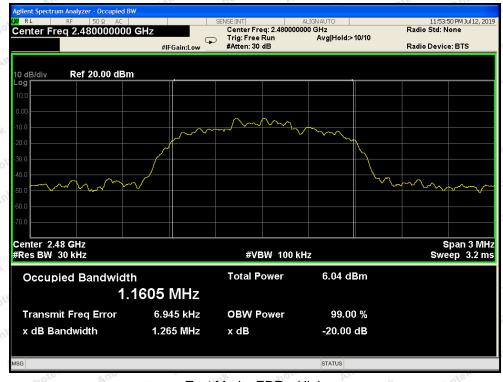
400-003-0500 www.anbotek.com



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 32 of 57



Test Mode: EDR---Middle



Test Mode: EDR---High

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



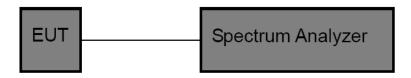
Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 33 of 57

7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

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

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	:	22.6℃
Test Result	:	PASS	Humidity	:	51%RH

	Frequency	Separation Read	Limit		
Channel	(MHz)	Value (kHz)	(kHz)	Modulation Mode	
boten Low	2402	1000	900.3	BDR	
Middle	2441	1000	933.9	BDR	
High	2480	1000	939.5	BDR	
Low	2402	1000	846.0	EDR Model	
Middle	2441	1000	844.0	EDR	
High	2480	1000	843.3	EDR	

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

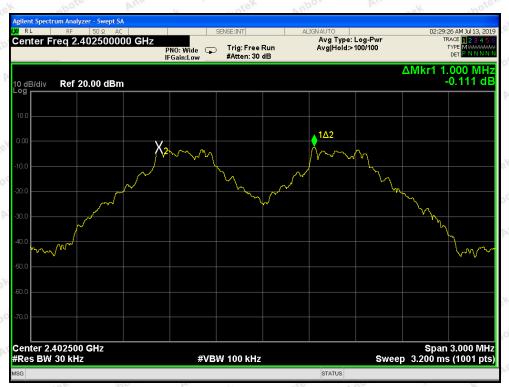
(2)The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 34 of 57



Test Mode: BDR---Low

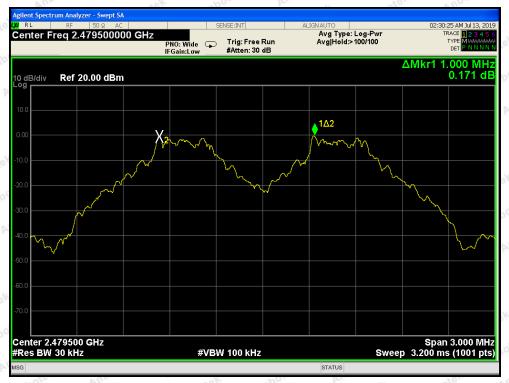


Test Mode: BDR---Middle



FCC ID: 2AJ5Q-OS441

Page 35 of 57



Test Mode: BDR---High



Test Mode: EDR---Low



FCC ID: 2AJ5Q-OS441

Page 36 of 57



Test Mode: EDR---Middle



Test Mode: EDR---High



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 37 of 57

8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C S	Section 15.2	247 (a)(1)	hotek .	Anbotek	Anbot A
Test Limit	>15 channels	anbotek	Anbore	Ann	Anbotek	Aupo.

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	:	22.6℃
Test Result	•	PASS	Humidity		51%RH

Hopping Channel Frequency Range	Quantity of Hopping Channel	Quantity of Hopping Channel	Modulation Mode
2402-2480MHz	79	>15	BDR
2402-2480MHz	79 boten	And >15 hotek	EDR HOUSE

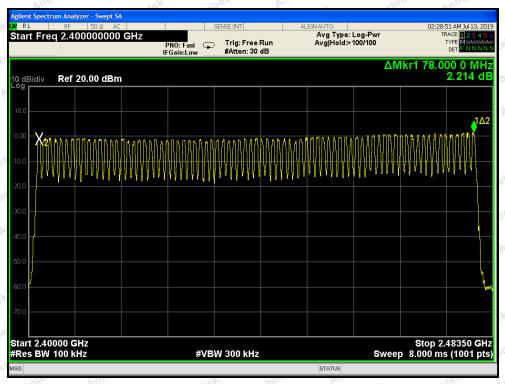
Remark: The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages

Hotline 400-003-0500 www.anbotek.com

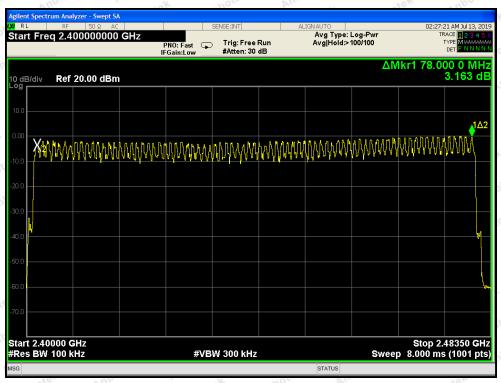


FCC ID: 2AJ5Q-OS441

Page 38 of 57



BDR Mode



EDR Mode



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441

9. Dwell Time Test

9.1. Test Standard and Limit

Test Standard	FCC Part15 C	Section 15.2	247 (a)(1)	Ann	Anbotek	Anbot A
Test Limit	0.4 sec	nbotek	Anbore	Andrek	Anbotek	Yupo.

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 Mode Test Item Time of Occupancy CH Low ~ CH High

Test Voltage DC 3.7V Battery inside Temperature 22.6℃ Test Result **PASS** Humidity 51%RH

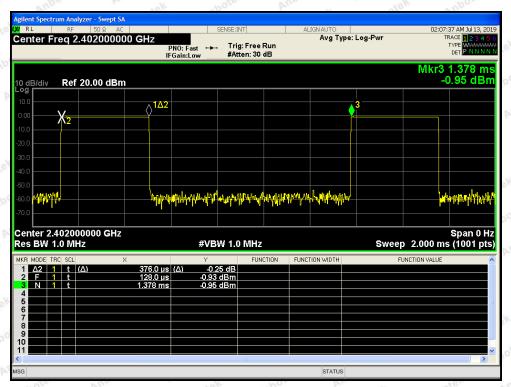
Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
DH1	0.376	time slot length *1600/2 /79 * 31.6	120.32	0.4	BDR
DH3	1.635	time slot length *1600/4 /79 * 31.6	261.60	0.4	BDR
DH5	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	BDR
3DH1	0.382	time slot length *1600/2 /79 * 31.6	122.24	0.4	EDR
3DH3	1.630	time slot length *1600/4 /79 * 31.6	260.80	tek 0.4	otek EDR And
3DH5	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	EDR

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

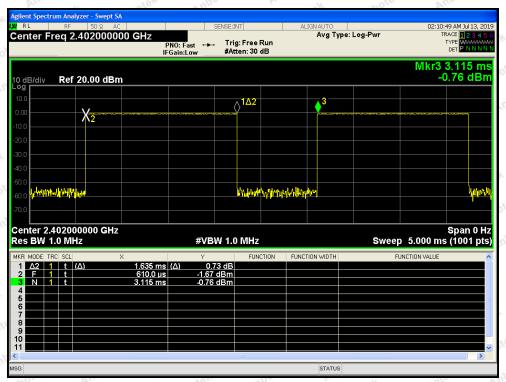
400-003-0500



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 40 of 57



Test Mode: BDR---DH1

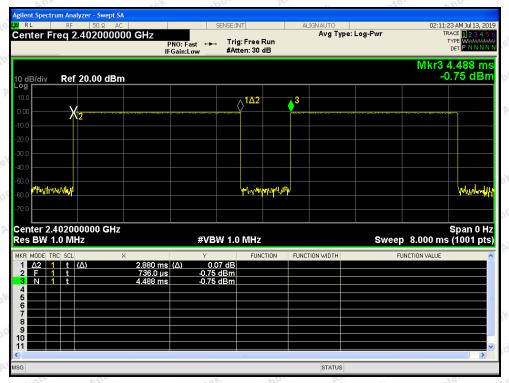


Test Mode: BDR---DH3

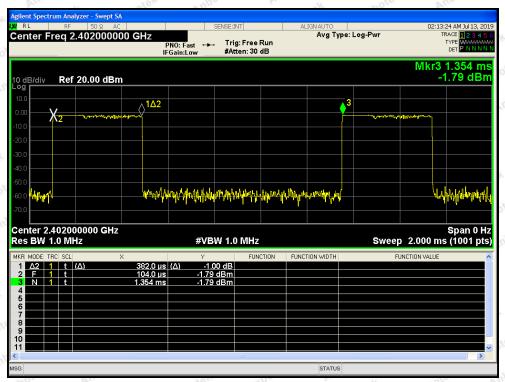
Code: AB-RF-05-a



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 41 of 57



Test Mode: BDR---DH5

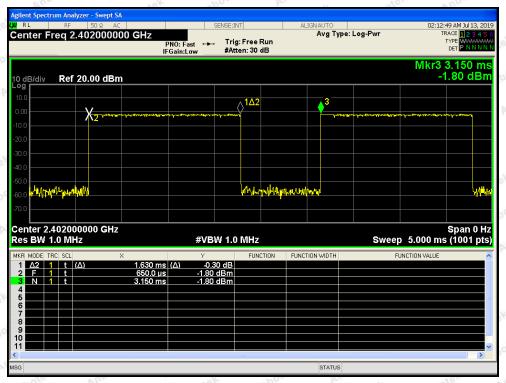


Test Mode: EDR---3DH1

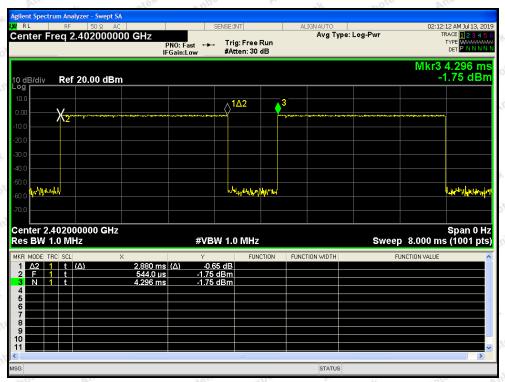
Code: AB-RF-05-a



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 42 of 57



Test Mode: EDR---3DH3



Test Mode: EDR---3DH5



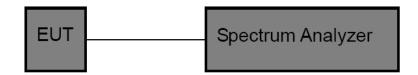
Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 43 of 57

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 : Test Mode : CH Low ~ CH High Test Voltage : DC 3.7V Battery inside : Temperature : 22.6℃

Test Result : PASS Humidity : 51%RH

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

Shenzhen Anbotek Compliance Laboratory Limited

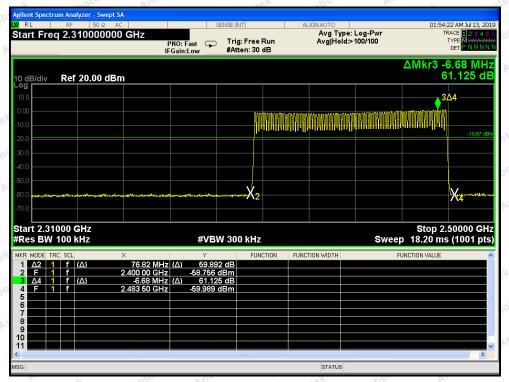
Hotline 400-003-0500 www.anbotek.com



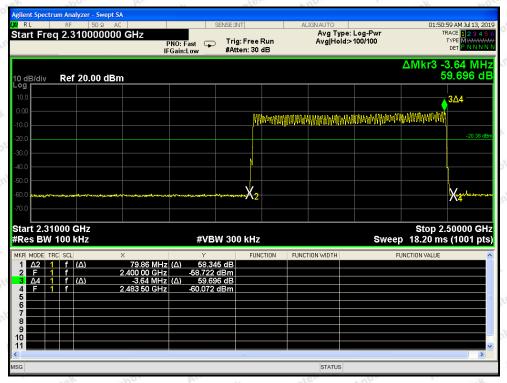
FCC ID: 2AJ5Q-OS441

Page 44 of 57

For Hopping Mode



BDR mode



EDR mode

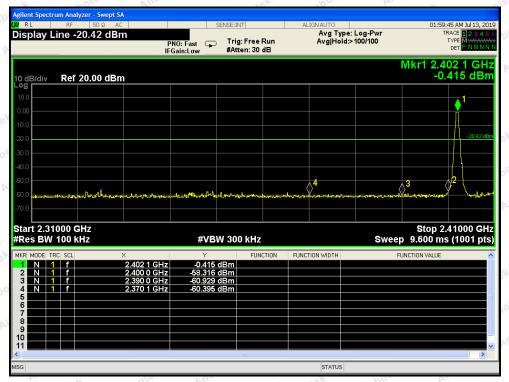
Code: AB-RF-05-a



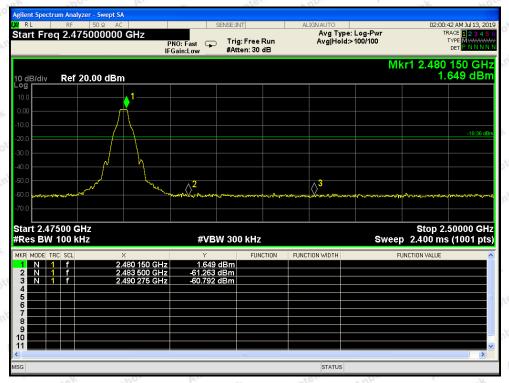
FCC ID: 2AJ5Q-OS441

Page 45 of 57

For Non-Hopping Mode



BDR mode -- Lowest



BDR mode -- Highest

Shenzhen Anbotek Compliance Laboratory Limited

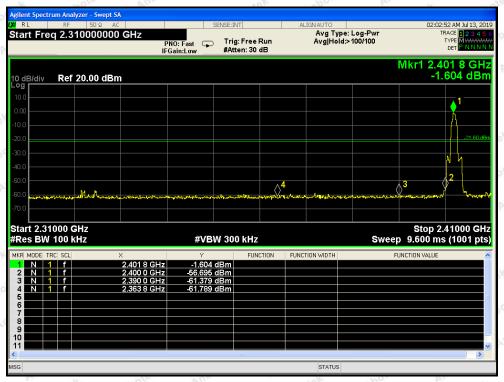
Hotline 400-003-0500 www.anbotek.com



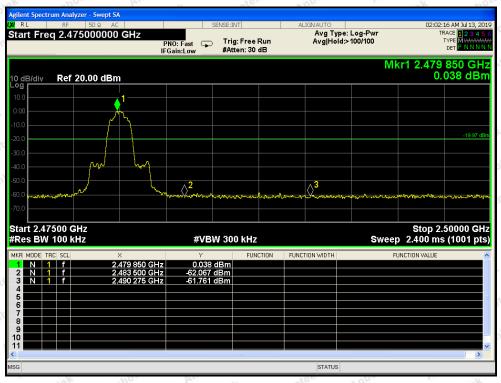
FCC ID: 2AJ5Q-OS441

Page 46 of 57

For Non-Hopping Mode



EDR mode -- Lowest



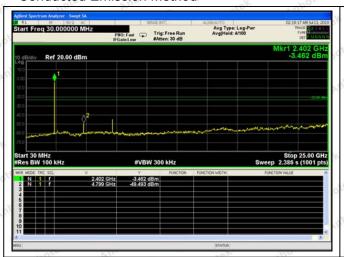
EDR mode -- Highest

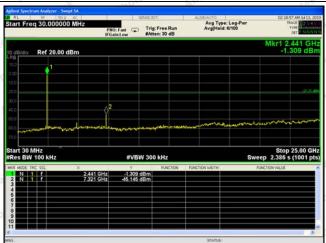


FCC ID: 2AJ5Q-OS441

Page 47 of 57

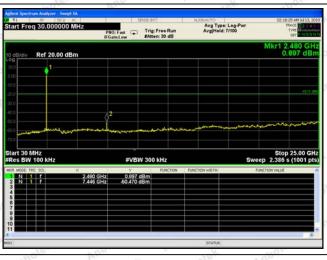
Conducted Emission Method

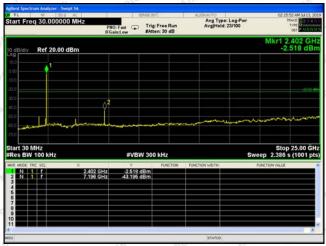




Test Mode: BDR---Low

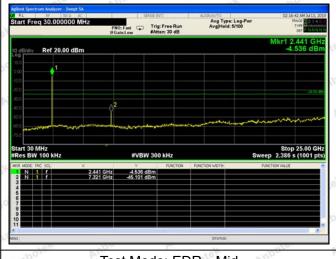
Test Mode: BDR---Mid

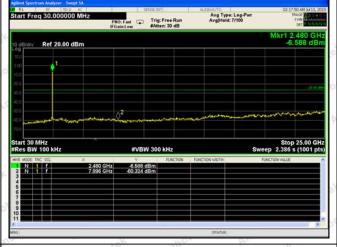




Test Mode: BDR---High

Test Mode: EDR---Low





Test Mode: EDR---Mid



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441

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





Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 49 of 57

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test



Code: AB-RF-05-a



FCC ID: 2AJ5Q-OS441

Page 50 of 57





Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 51 of 57

APPENDIX II -- EXTERNAL PHOTOGRAPH

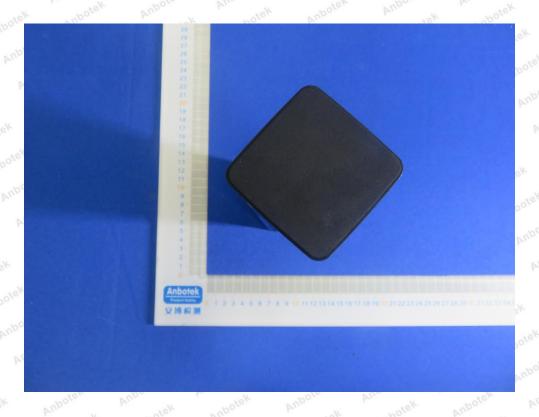


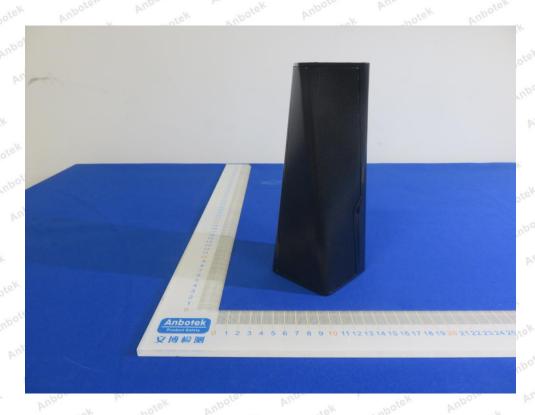




FCC ID: 2AJ5Q-OS441

Page 52 of 57



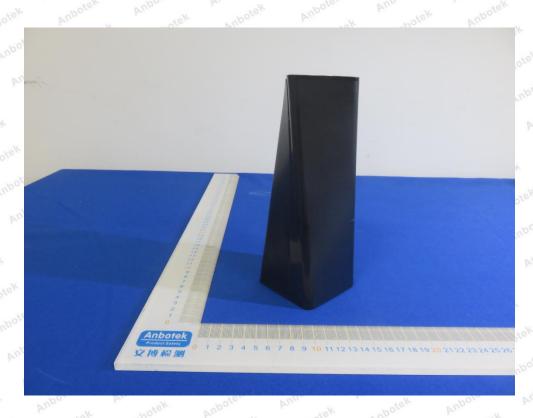




FCC ID: 2AJ5Q-OS441

Page 53 of 57

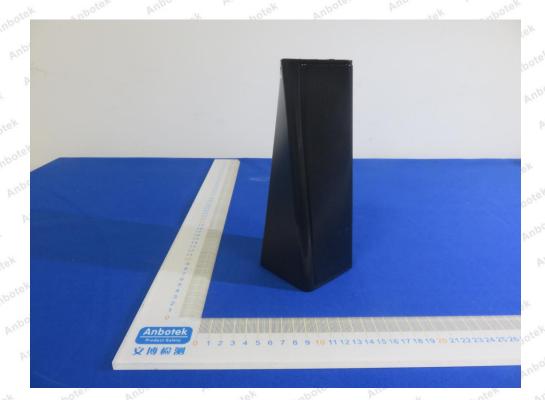






FCC ID: 2AJ5Q-OS441

Page 54 of 57



Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel:(86)755–26066440 Fax:(86)755–26014772 Email:service@anbotek.com

Code: AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 55 of 57

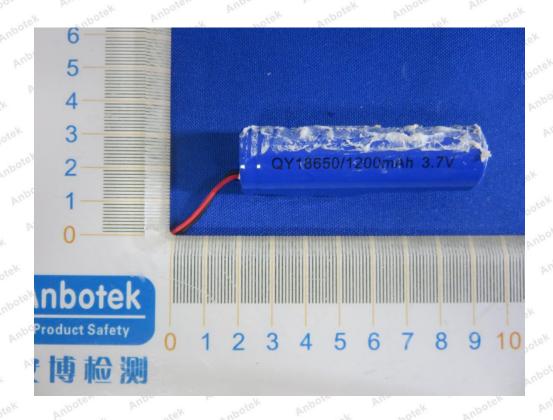
APPENDIX III -- INTERNAL PHOTOGRAPH

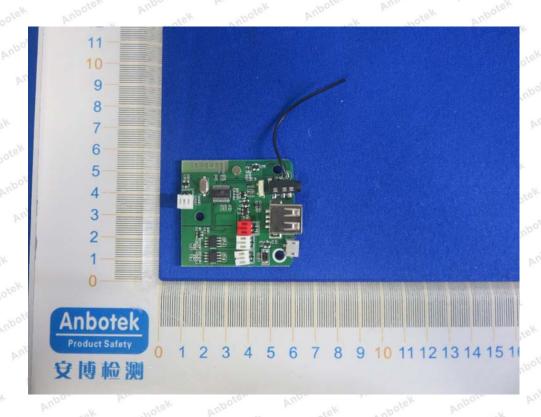






Page 56 of 57 Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441





Shenzhen Anbotek Compliance Laboratory Limited



Report No.: SZAWW190711009-01 FCC ID: 2AJ5Q-OS441 Page 57 of 57



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