

FCC TEST REPORT

For

Shenzhen SQT Electronics Co., Ltd.

2.4GHz Wireless Keyboard

Model No.: SK-620AG, SK-623AG, SK-625AG, SK-627AG, SK-642AG

Prepared For : Shenzhen SQT Electronics Co., Ltd.

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Report Number : SZAWW190122013-01

Date of Receipt : Jan. 22, 2019

Date of Test : Jan. 22~Feb. 15, 2019

Date of Report : Feb. 15, 2019



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TEST REPORT

Applicant : Shenzhen SQT Electronics Co., Ltd.

Manufacturer : Shenzhen SQT Electronics Co., Ltd.

Product Name : 2.4GHz Wireless Keyboard

Model No. : SK-620AG, SK-623AG, SK-625AG, SK-627AG, SK-642AG

Trade Mark : N.A.

Rating(s) : Input: DC 3V, 6mA "AA"

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.249

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 Test	Name of the second		Jan. 22~Feb.		
	Anbotek	Anbotek Anbot	olivay	larg moores	
Prepared by	Product Safety	Anbotek	An'	Anho- Anh	oote. And
notek Ambotek	* Approved *	ek Anbotek	(Engineer / O	liay Yang)	
Reviewer			Snavy	Meng	
V 101.		Anbote, Ani	, ser so	by Aupor	All sek
			(Supervisor / Sr	nowy Meng)	
			Sally Z	hamar otek	
			Savry 2	ok Japosek	
Approved & Authorized	Signer	Ans rek ab	otek Pupor	Y NOTE	K Aupolen
			(Manager / Sa	lly Zhang)	



1. General Information

1.1. Client Information

Applicant	: Shenzhen SQT Electronics Co., Ltd.
Address	ZhengChengFeng TechnologyZone Xinsha Road, ShaYi Village, Sha jing Town, Baoan Area, Shenzhen, China 518104
Manufacturer	: Shenzhen SQT Electronics Co., Ltd.
Address	ZhengChengFeng TechnologyZone Xinsha Road, ShaYi Village, Sha jing Town, Baoan Area, Shenzhen, China 518104
Factory	: Shenzhen SQT Electronics Co., Ltd.
Address	ZhengChengFeng TechnologyZone Xinsha Road, ShaYi Village, Sha jing Town, Baoan Area, Shenzhen, China 518104

1.2. Description of Device (EUT)

not not	01,	487	L LOSE AND
Product Name	:	2.4GHz Wireless Keyboard	Anbotek Anbotek Anbotek Ar
Model No.	:	SK-620AG, SK-623AG, SK-625. (Note: All samples are the same effor test only.)	AG, SK-627AG, SK-642AG except the model name, so we prepare "SK-620AG"
Trade Mark	:	N.A. Anbotek Anbotek	Anbotek Anbotek Anbotek Anbot
Test Power Supply	:	DC 3V battery inside	K Anbotek Anbotek Anbotek An
Test Sample No.	:	S1(Normal Sample), S2(Engineer	ring Sample)
		Operation Frequency:	2408-2474MHz
		Number of Channel:	34 Channels
Product :		Modulation Type:	FSK Anbotek Anbotek An
		Antenna Type:	PCB Antenna
		Antenna Gain(Peak):	-0.61 dBi
482 40			And

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

1.3. Auxiliary Equipment Used During Test

	N/A		Anbo. atek	A. nbotek	Anbote.	Anna	Anbotek	Anbore
--	-----	--	------------	-----------	---------	------	---------	--------



1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

	Pretest Mode			I	Description	on		
	Mode 1	botek	Anbotek	Aupo	CH01	hotek	Anbore	Ann
N.	Mode 2	Allotek	Anboten	Anbo	CH17	anbotek	Anbore	Yu.
otek	Mode 3	A. nbotek	Anbote.	K VUI	CH34	Anbotek	Anbott	* 6K

	For Radiated Emission								
	Final Test Mo	ode			Description	on			
	Mode 1	nbotek	Anbolo	Ann	CH01	Anbo	abotek	Anbo	
V. Chr.	Mode 2	Anbotek	Anbolo	Ann	CH17	Anbountek	Anbotek	P	
upote.	Mode 3	Anbotek	Anboto	k abotek	СН34	Anbo	k anbote	K	

Note:

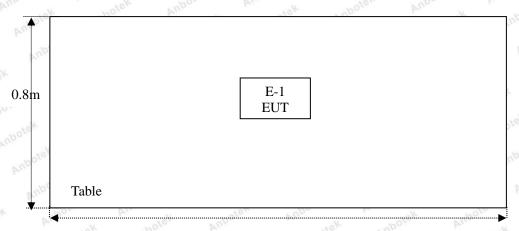
- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. EUT built-in battery-powered, fully-charged battery use of the test battery.

1.5. List of Channels

183		1/		V.1.	10.	Mo	Pr.
Channel	Freq.	Channel	Freq.	Channel	Freq.	Channel	Freq.
	(MHz)		(MHz)		(MHz)		(MHz)
Aupo	2408	100000	2426	× 19 nbots	2444	28	2462
2 Anbo	2410	otek 11 Anbo	2428	20	2446	29	2464
ootek 3 An	2412	12 N	2430	21	2448	30	2466
nbote4	2414	13	2432	22	2450	Anboat	2468
anb5.ek	2416	14	2434	23	2452	32	2470
6 otek	2418	15 notek	2436	24	2454	33	2472
K 7 abote	2420	16	2438	25	2456	¹⁶ 34 _M hool	2474
8 8 A	2422	17 Ans	2440	o ^{tell} 26 Mab	2458	notek An	ooten An
9	2424	18 A	2442	27	2460	hotek	Anbotek



1.6. Description of Test Setup





1.7. Test Equipment List

1/-	-V	V///-	100	Y'	- 16.	C 1
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
otek 1. nbotek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 05, 2018	1 Year
2.00	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. Sk	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 05, 2018	1 Year
Anbox 7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Nov. 20, 2018	1 Year
AT.	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	IVYTECH	IV3605	1804D360510	Apr. 02, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Nov. 01, 2018	1 Year

1.8. Measurement Uncertainty

10 Pak Por		Ar ater was
Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
		otek Anbote, Anbotek Anbotek Anbotek Anbote
Conduction Uncertainty	:	Uc = 3.4 dB



1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

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



2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	N/A
15.249	Radiated Emission	PASS
15.215(c)	20dB Bandwidth	PASS
15.249(c)	Band Edge	PASS
Remark: "N/A" is an abbre	viation for Not Applicable.	k Aupoten A



3. Conducted Emission Test

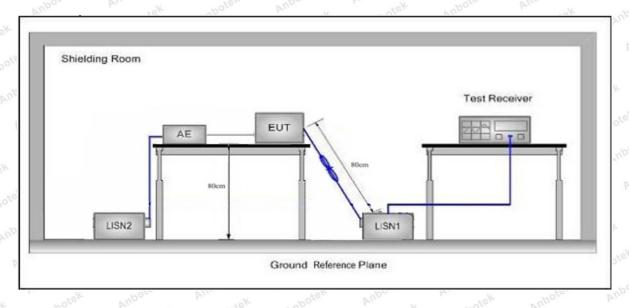
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207	Anbore All hotek	Anbotek Anbo tek		
	F	Maximum RF I	Line Voltage (dBuV)		
	Frequency	Quasi-peak Level	Average Level		
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *		
	500kHz~5MHz	56	46		
	5MHz~30MHz	60	50 hotel		

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

The EUT is powered by DC 3V battery inside, so there is no need to conduct this test.



4. Radiated Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.20	09 and 15.205	All	Anboten	And	
	Frequency (MHz)		Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz~0.490MHz	2400/F(kHz)	obotek - Anbo	to Vun	300	
	0.490MHz-1.705MHz	24000/F(kHz)	Anbotek Ar	Pore VIII	30	
	1.705MHz-30MHz	30	Anbotek	Anbore P	30	
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3	
88	88MHz~216MHz	150	43.5	Quasi-peak	3 _{botek}	
	216MHz~960MHz	200	46.0	Quasi-peak	kek 3 abotel	
	960MHz~1000MHz	500	54.0	Quasi-peak	atek 3	
'ek	Above 1000MHz	500	54.0	Average	3	
	Above 1000IVITZ	botek - Anbot	74.0	Peak	3	

Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Standard	FCC Part15 C	Section 15.249	Al abotek A	'upote.' k	nb	Anbotek
	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
Test Limit	2400~2483.5	50	Anbotek - Anbo	114.0	Peak	3 And
	2400~2483.5	50	Anbotek Anb	94.0	Average	3
	2400~2483.5	ore Am	500	74.0	Peak	Anbox 3
	2400~2483.5	upote Aup	500	54.0	Average	3

Remark:

(1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup



Figure 1. Below 30MHz

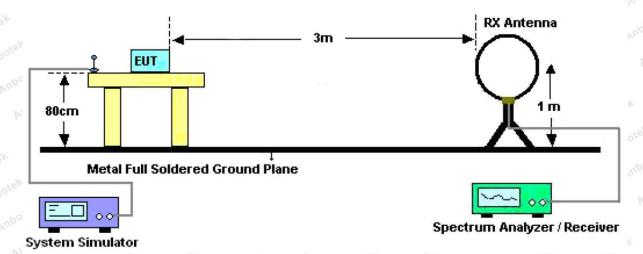


Figure 2. 30MHz to 1GHz

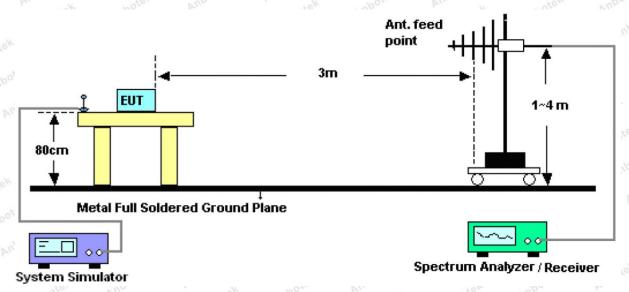
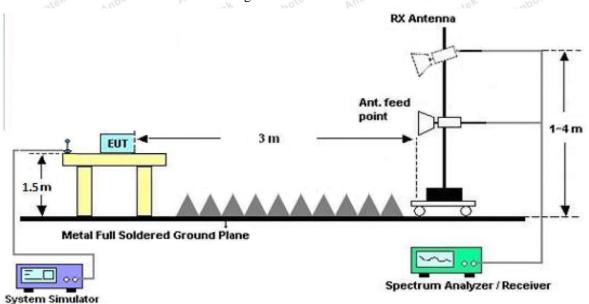


Figure 3. Above 1 GHz





4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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

During the test, pre-scan all the mode, and found the Middle channel which is the worst case, only the worst case is recorded in the report



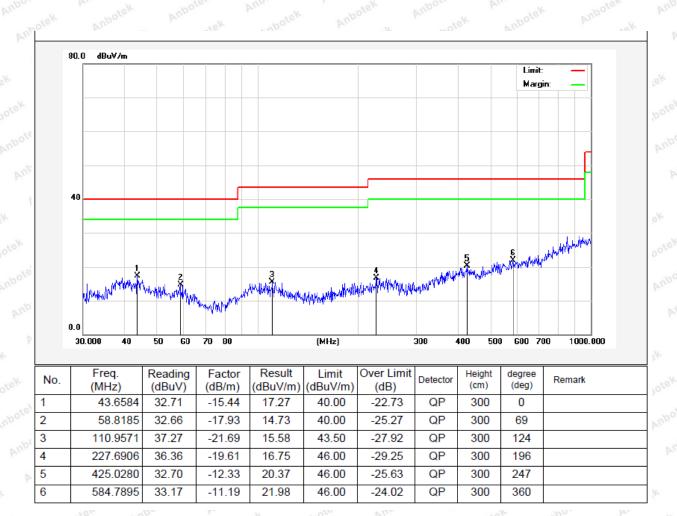
FCC ID: WOX-SK620AG

Test Results (30~1000MHz)

Job No.: SZAWW190122013-01 Temp.(°C)/Hum.(%RH): 24.3 °C/54%RH

Standard: FCC PART 15C Power Source: DC 3V battery inside

Test Mode: Mode 2 Polarization: Horizontal





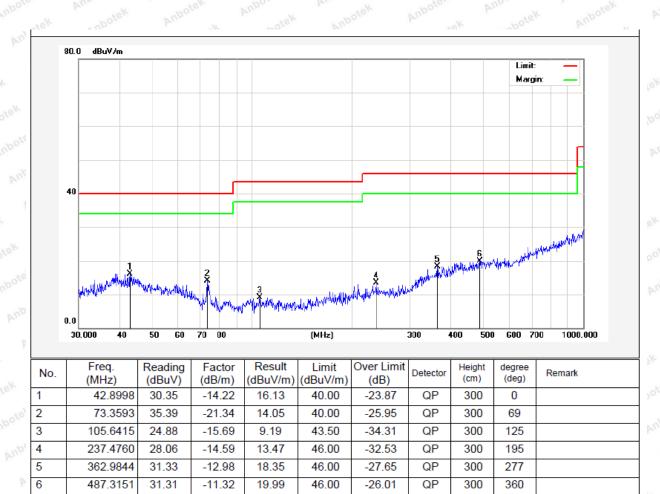
FCC ID: WOX-SK620AG

Test Results (30~1000MHz)

Job No.: SZAWW190122013-01 Temp.(°C)/Hum.(%RH): 24.3°C/54%RH

Standard: FCC PART 15C Power Source: DC 3V battery inside

Test Mode: Mode 2 Polarization: Vertical



Test Results (1GHz-25GHz)

Test Mode: 0	CH01 (Low ch	nannel)							
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.	Detector
2408.0000	96.14	31.12	2.18	35.33	94.11	114.00	-19.89	V	Peak
2408.0000	83.48	31.12	2.18	35.33	81.45	94.00	-12.55	V	AVG
4816.0000	47.89	34.01	2.58	34.65	49.83	74.00	-24.17	V	Peak
4816.0000	38.80	34.01	2.58	34.65	40.74	54.00	-13.26	V	AVG
7224.0000	48.50	36.16	2.97	35.07	52.56	74.00	-21.44	V	Peak
7224.0000	35.70	36.16	2.97	35.07	39.76	54.00	-14.24	V	AVG
9632.0000	mbote*	Anbo Lotek	nbotek	Anbo	re Vu	notek	Anbotek	Anb.	, ek
12040.0000	Aup of the	Aupo	k nbot	Pk Pk	pole	yun apolek	Anbotek	P	upor
14448.0000	A.*>otel	Anbo	rek n	potek	Aupoto. K	Ann	anbo'	EK	Anbore
16856.0000	*Anbote	Anb	0. br.	anbotek.	Anboten	Aug	rek vi	potek	Anbor
2408.0000	95.31	31.12	2.18	35.33	93.28	114.00	-20.72	Hrek	Peak
2408.0000	82.05	31.12	2.18	35.33	80.02	94.00	-13.98	Habo	AVG
4816.0000	50.52	34.01	2.58	34.65	52.46	74.00	-21.54	Н	Peak
4816.0000	38.19	34.01	2.58	34.65	40.13	54.00	-13.87	o⊁ H	AVG
7224.0000	48.92	36.16	2.97	35.07	52.98	74.00	-21.02	Н	Peak
7224.0000	37.83	36.16	2.97	35.07	41.89	54.00	-12.11	H	AVG
9632.0000	*	otek p	Anbotek	Auporen	ok w	otek o	botek	Vupor	ek Pri
12040.0000	*	nbo	nbotek	Anbot	K And	abotek	Anbotek	Anbo	*ek
14448.0000	*	Aupo.	, abote	K An'	ores b	no tek	Anbotek	Ar	/bor
16856.0000	**Olev	Aupor	10K 20	otek	Aupoten	Vuo.	hodna	. K	Aupor

Note:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

FCC ID: WOX-SK620AG

Test Mode: 0	CH17 (Middle	channel)	165						
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.	Detector
2440.0000	96.89	31.12	2.20	34.51	95.70	114.00	-18.30	Vote	Peak
2440.0000	83.54	31.22	2.20	34.51	82.45	94.00	-11.55	V	AVG
4880.0000	48.26	34.98	2.49	34.14	51.59	74.00	-22.41	V	Peak
4880.0000	39.28	34.98	2.49	34.14	42.61	54.00	-11.39	V	AVG
7320.0000	47.50	36.01	3.01	34.56	51.96	74.00	-22.04	V	Peak
7320.0000	35.12	36.01	3.01	34.56	39.58	54.00	-14.42	V	AVG
9760.0000	tek * Ani	, sek	nbotek	Aupoter	N VUD	otek	nbotek	Anbore	rok V
12200.0000	nbotek*	Aupor	A).	Anbo	ion Vu,	notek	Anbotek	Aup,	. o.K
14640.0000	Anbokek	Vupor	K Not	ex Pr	poter	YUBO	Anbotek	P	hore
17080.0000	Al*otek	Anbor	rek a	potek	Aupoten	Aupo	, nbo	iek.	Anbore
2440.0000	95.27	31.12	2.20	34.51	94.08	114.00	-19.92	ho'H	Peak
2440.0000	85.07	31.12	2.20	34.51	83.88	94.00	-10.12	H, tok	AVG
4880.0000	49.57	34.98	2.49	34.14	52.90	74.00	-21.10	H	Peak
4880.0000	39.95	34.98	2.49	34.14	43.28	54.00	-10.72	Н	AVG
7320.0000	46.33	36.01	3.01	34.56	50.79	74.00	-23.21	₩ H	Peak
7320.0000	36.31	36.01	3.01	34.56	40.77	54.00	-13.23	Н	AVG
9760.0000	*	rek Pr	obotek	Yupote.	And-	K Anb	rek Pu	por	b11.
12200.0000	* And	rotek b	nbotek	Anboten	K Vup.	otek A	botek	Vupor	ek bu
14640.0000	botek * b		abotek .	Anbot	n Bup	botek	anbotek	Anbo	. o.V
17080.0000	Anbotek	Anbore	An bote	K An	oter b	up. stek	Anbotek	PZ	bolo

Note:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



FCC ID: WOX-SK620AG

Test Mode: O	CH34 (High cl	hannel)							
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.	Detector
2474.0000	94.96	31.65	2.23	36.07	92.77	114.00	-21.23	Vote	Peak
2474.0000	85.11	31.65	2.23	36.07	82.92	94.00	-11.08	V	AVG
4948.0000	50.49	35.06	2.60	34.93	53.22	74.00	-20.78	V	Peak
4948.0000	38.79	35.06	2.60	34.93	41.52	54.00	-12.48	V	AVG
7422.0000	48.90	36.19	3.12	35.11	53.10	74.00	-20.90	V	Peak
7422.0000	36.64	36.19	3.12	35.11	40.84	54.00	-13.16	V	AVG
9896.0000	* An	, tek	nbotek	Anbote	K VU	otek i	nbotek	Aupore	rok by
12370.0000	nbote*	Yupo, otek	abotek	Anbo	ion Vu	notek	Anbotek	Aup,	.o.k
14844.0000	Anbokek	Vupor	K Not	sk br	Poter	YUBO	Anbotek	P	hore
17318.0000	***************************************	Aupor	rek w	potek	Anboten	Auprote	, nbo	.ek	Anbore
2474.0000	95.70	31.65	2.23	36.07	93.51	114.00	-20.49	hoo'H	Peak
2474.0000	82.17	31.65	2.23	36.07	79.98	94.00	-14.02	Hick	AVG
4948.0000	50.98	35.06	2.60	34.93	53.71	74.00	-20.29	Habe	Peak
4948.0000	40.76	35.06	2.60	34.93	43.49	54.00	-10.51	Н	AVG
7422.0000	45.25	36.19	3.12	35.11	49.45	74.00	-24.55	e√ H	Peak
7422.0000	37.63	36.19	3.12	35.11	41.83	54.00	-12.17	Н	AVG
9896.0000	*	tek .	abotek	Yupote.	And wote	K Anb	fek Mu	por-	b).
12370.0000	*	rotek b	abotek	Anboten	K Prup.	otek A	botek	Vupor	ek bu
14844.0000	botev *		A" abotek	Anbot	r Vulp	hotek	anbotek	Anbo	· ak
17318.0000	Anbotek	Anbore	An bote	K An	oter b	up.	abotek	P.	Por

Note:

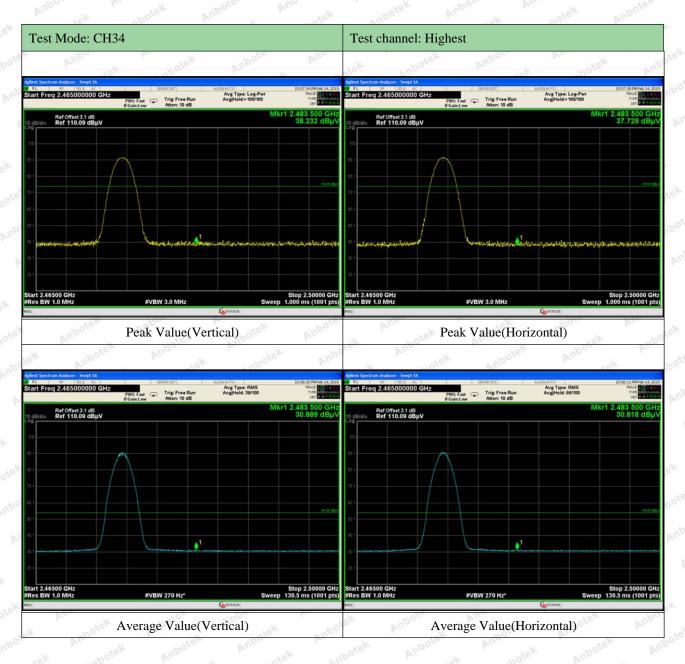
- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Radiated Band Edge:





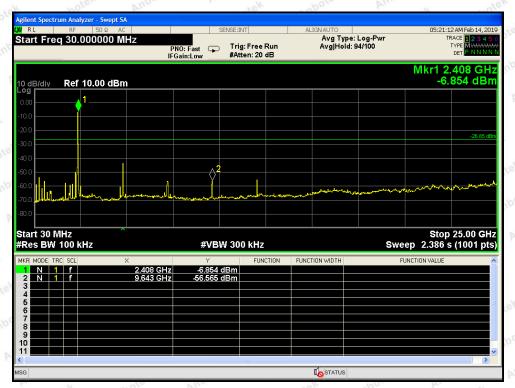


Remark:

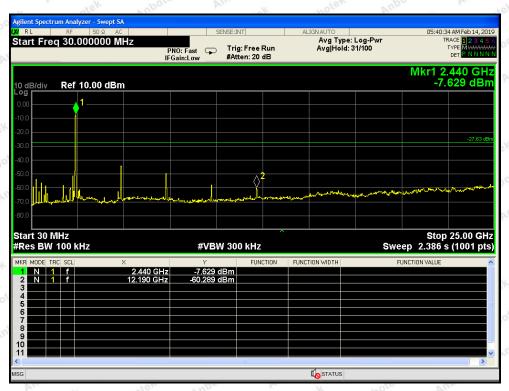
1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



Conducted Emission Method

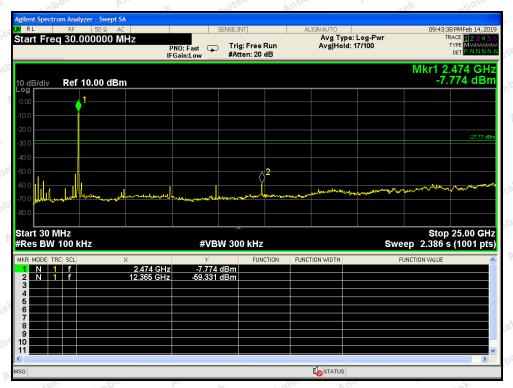


CH: Low



CH: Middle





CH: High



5. 20dB Bandwidth Test

5.1. Test Standard and Limit

TD (C) 1 1	ECC D 415 C C 41 15 040	Ans	18h	
Test Standard	FCC Part15 C Section 15.249			
V.				

5.2. Test Setup



5.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

 $RBW = 30kHz, VBW \ge 3*RBW = 100kHz,$

Detector= Average

Trace mode= Max hold.

Sweep- auto couple.

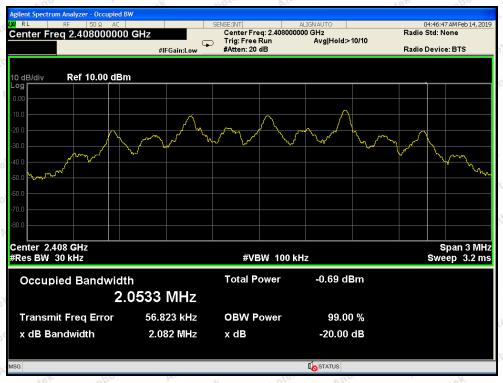
- 4. Mark the peak frequency and -20dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

5.4. Test Data

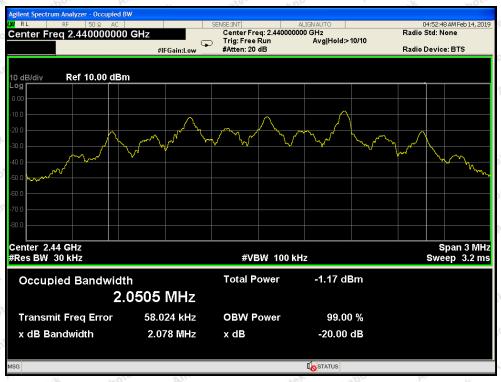
Test Item	:	20dB Bandwidth	Test Mode	:	Mode 1
Test Voltage	:	DC 3V battery inside	Temperature	:	24℃
Test Result	:	PASS	Humidity	:	55%RH

	Frequency (MHz)		В	andwidth (kHz)	100		Result	
All abotek	2408MHZ	Auprotek	Anbotek	2082	Anabote	K Anbo	PASS	Anbo.
by.	2440MHZ	Anb	Anbotek	2078	VIII.	otek Ar	PASS	Anbo
48	2474MHZ	Vun	lek Anbotek	2085	ok bi	hotek	PASS	Anbo



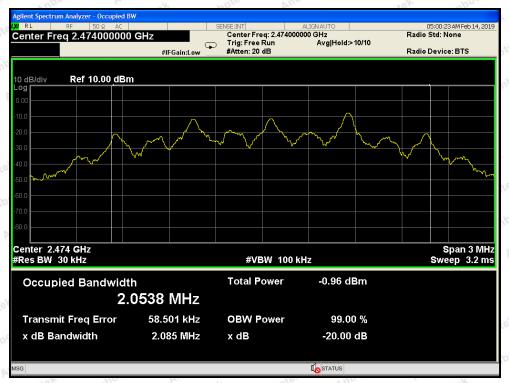


Test Mode: Low



Test Mode: Middle





Test Mode: High



6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
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.

6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is -0.61 dBi. It complies with the standard requirement.





APPENDIX I -- TEST SETUP PHOTOGRAPH







APPENDIX II -- EXTERNAL PHOTOGRAPH















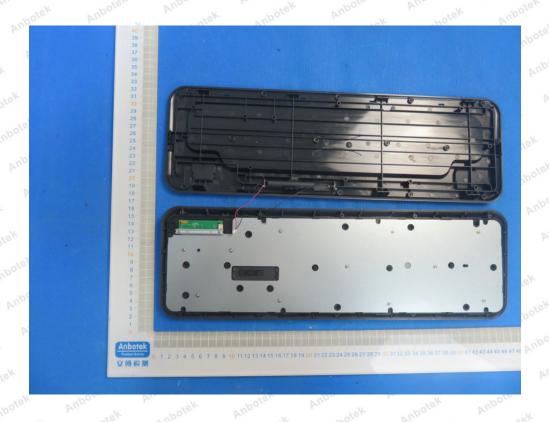






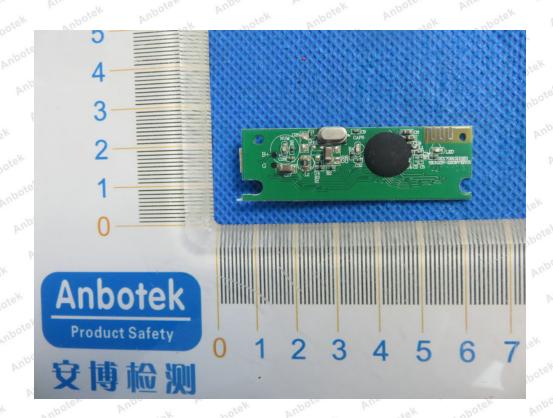


APPENDIX III -- INTERNAL PHOTOGRAPH









-- End of Report ------