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FCC Test Report

Report No.: AGC02724180501FE03

FCC ID:2ALCF-XO-9566APPLICATION PURPOSE:Original EquipmentPRODUCT DESIGNATION:Bright Bluetooth SpeakerBRAND NAME:N/AMODEL NAME:XO-9566CLIENT:Dongguan Xing Yue Electronic Co., LtdDATE OF ISSUE:Jun. 08, 2018STANDARD(S) TEST PROCEDURE(S):FCC Part 15 Subpart C Section 15.249		
PRODUCT DESIGNATION: Bright Bluetooth SpeakerBRAND NAME: N/AMODEL NAME: XO-9566CLIENT: Dongguan Xing Yue Electronic Co., LtdDATE OF ISSUE: Jun. 08, 2018STANDARD(S): ECC Part 15 Subpart C Section 15 249	FCC ID	: 2ALCF-XO-9566
BRAND NAME: N/AMODEL NAME: X0-9566CLIENT: Dongguan Xing Yue Electronic Co., LtdDATE OF ISSUE: Jun. 08, 2018STANDARD(S): ECC Part 15 Subpart C Section 15 249	APPLICATION PURPOSE	: Original Equipment
MODEL NAME: X0-9566CLIENT: Dongguan Xing Yue Electronic Co., LtdDATE OF ISSUE: Jun. 08, 2018STANDARD(S): ECC Part 15 Subpart C Section 15 249	PRODUCT DESIGNATION	: Bright Bluetooth Speaker
CLIENT: Dongguan Xing Yue Electronic Co., LtdDATE OF ISSUE: Jun. 08, 2018STANDARD(S): ECC Part 15 Subpart C Section 15 249	BRAND NAME	: N/A
DATE OF ISSUE: Jun. 08, 2018STANDARD(S): ECC Part 15 Subpart C Section 15 249	MODEL NAME	: X0-9566
STANDARD(S) FCC Part 15 Subpart C Section 15 249	CLIENT	: Dongguan Xing Yue Electronic Co., Ltd
• FIL Part 15 Suppart C Section 15 749	DATE OF ISSUE	: Jun. 08, 2018
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REPORT VERSION : V1.0	REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 08, 2018	Valid	Initial release

Report Revise Record

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APPENDIX A: PHUTUGKAPH5 UP TEST SETUP		APPENDIX A: PHUTUGKAPH5 OF TEST SETUP
APPENDIX B: PHOTOGRAPHS OF EUT	54	APPENDIX B: PHOTOGRAPHS OF EUT

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1. VERIFICATION OF CONFORMITY

Applicant	Dongguan Xing Yue Electronic Co., Ltd			
Address	#98 LiWu Swan Industrial District, Qiao Tou Town, Dong Guan, Guang Dong, China			
Manufacturer	Dongguan Xing Yue Electronic Co., Ltd			
Address	#98 LiWu Swan Industrial District, Qiao Tou Town, Dong Guan, Guang Dong, China			
Product Designation	Bright Bluetooth Speaker			
Brand Name	N/A			
Test Model	XO-9566			
Date of test	May 29, 2018 to Jun. 04, 2018			
Deviation	None			
Condition of Test Sample	Normal			
Report Template	AGCRT-US-BR/RF			

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By

Jonhen Wand

Jonhen Wang(Wang Yonghuan) Jun. 04, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jun. 08, 2018

Forvesto en

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 08, 2018

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-0.09dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2 • 5 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V1.1
Software Version	20180518
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	ised for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
NO S	0	2402MHz
The Barrense	· *****	2403MHz
C Standard Color	GC : CC	
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The transferrer @ The Transferrer Contract	40 0	2442 MHz
of colored and a		
	77	2479 MHz
The Hannes	78	2480 MHz

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	BT Link with charging
8	BT Link
Nata	

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The EUT used fully-charged battery when tested.

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	Software S	Setting
	RC FCCAssist 2.4	
The second	BR/EDR BLE	
	MODE TX -	
	Channel 35 Packet type 1-DH1	Data Types Pn9
ettes	Transmit Power 7 Hopping OFF	
	open COM8 succeed Channel: 35 Data Types: Pn9 Transmit Power : 7 Packet type: 1-DH1 Send configuration information successfully	Serial Port COM8
		Description:
		$1{\scriptstyle \times}$ Channel: range 0-78, corresponding frequency 2.402GHz-2.480GHZ
		2 Transmit Power range 0-10, 0 is the minimum, maximum 10

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



EUT

Adapter or PC

Note: Owing to the EUT has own battery, and testing may be performed while PC or adapter removed

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bright Bluetooth Speaker	Xing Yue	XO-9566	EUT
2	Battery	CEL Sector	602040	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	GZUT	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	USB Cable	N/A	0.3m unshielded	Accessory
8	IPOD	APPLE	A1367	A.E

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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The the parts	Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 6 6	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
(MHz)	Meters	μ V/m	dB(µV)/m				
0.009 ~ 0.490	300	2400/F(kHz)	2				
0.490 ~ 1.705	30	24000/F(kHz)	E				
1.705 ~ 30	30	30	E The Could Car				
30 ~ 88	3	100	40.0				
88 ~ 216	3	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m				

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

The following table is the setting of spectrum analyzer and receiver.

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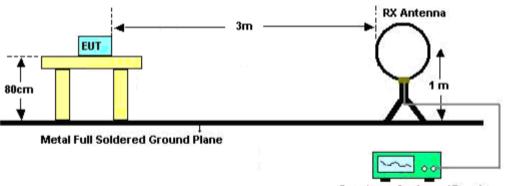


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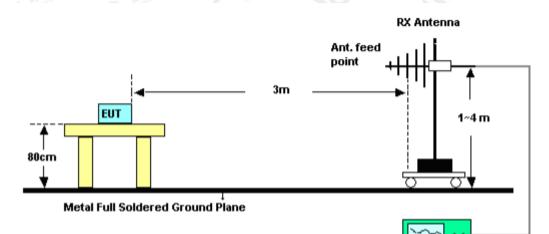
9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



Spectrum Analyzer / Receiver

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



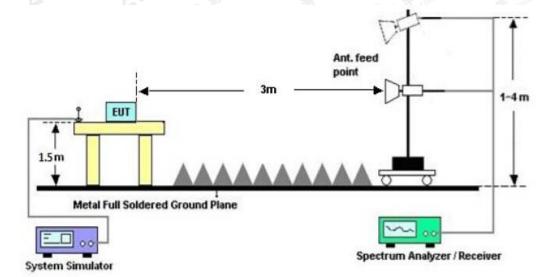
Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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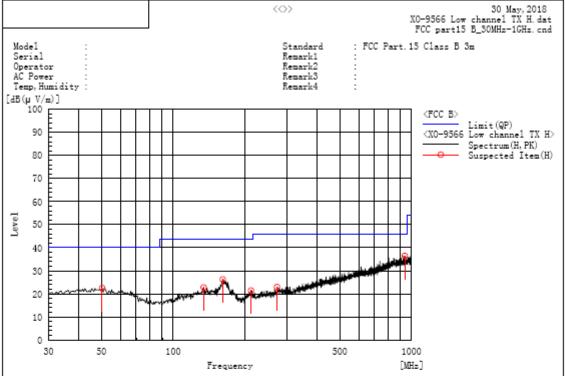
9.4. TEST RESULT

(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BELOW 1GHz**

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



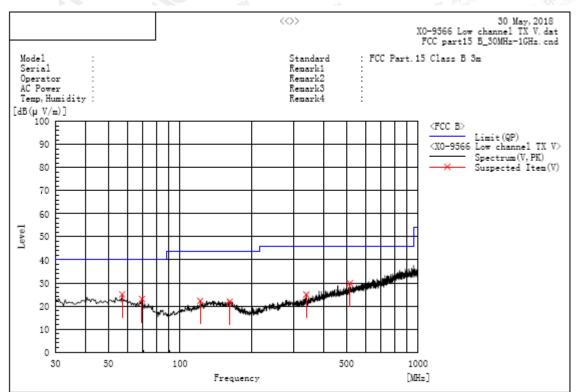
A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	50.370	Н	5.5	17.0	22.5	40.0	17.5	Pass	100.0	267.6
Γ	134.275	Н	6.3	16.5	22.8	43.5	20.7	Pass	100.0	162.4
	161.435	Н	9.7	16.6	26.3	43.5	17.2	Pass	100.0	90.3
	212.360	Н	7.3	14.1	21.4	43.5	22.1	Pass	200.0	4.0
Γ	272.985	Н	5.8	17.2	23.0	46.0	23.0	Pass	200.0	254.8
	937.435	н	6.0	30.5	36.5	46.0	9.5	Pass	100.0	341.8

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

A. Suspected List:

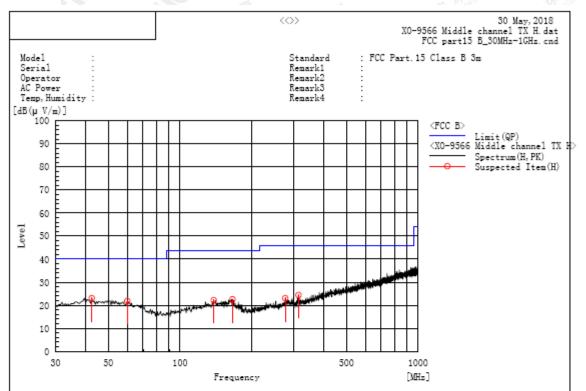
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
57.160	v	8.5	16.5	25.0	40.0	15.0	Pass	100.0	247.8
69.285	v	8.5	14.6	23.1	40.0	16.9	Pass	200.0	305.5
121.665	v	6.8	15.5	22.3	43.5	21.2	Pass	100.0	354.9
161.920	v	5.3	16.6	21.9	43.5	21.6	Pass	100.0	106.4
338.945	v	6.5	18.5	25.0	46.0	21.0	Pass	200.0	90.4
517.425	v	6.7	23.2	29.9	46.0	16.1	Pass	200.0	14.6

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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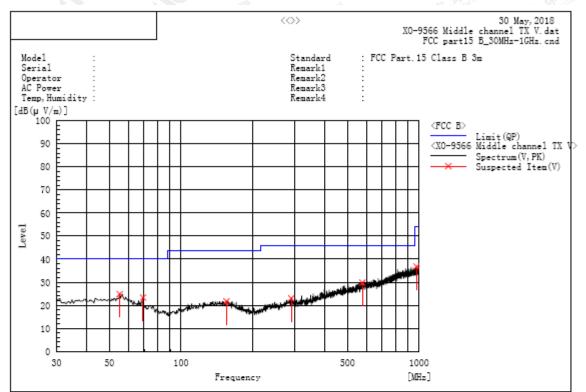
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
42.610	Н	5.7	17.4	23.1	40.0	16.9	Pass	100.0	72.1
60.070	н	5.7	16.2	21.9	40.0	18.1	Pass	200.0	267.6
138.640	н	5.6	16.6	22.2	43.5	21.3	Pass	100.0	181.3
166.285	н	6.3	16.3	22.6	43.5	20.9	Pass	200.0	159.6
276.865	н	5.5	17.6	23.1	46.0	22.9	Pass	100.0	253.4
314.695	н	6.8	17.7	24.5	46.0	21.5	Pass	200.0	267.6

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL -VERTICAL

A. Suspected List:

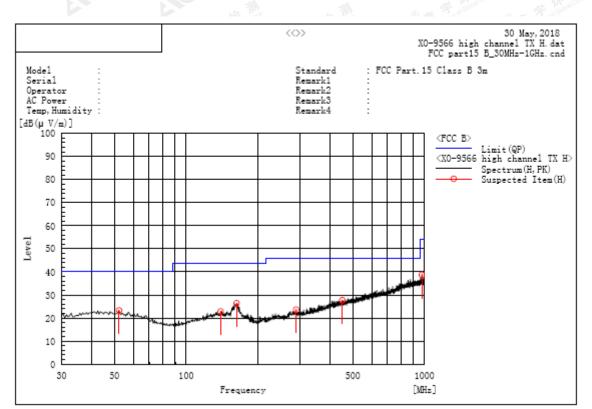
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
55.220	v	8.2	16.7	24.9	40.0	15.1	Pass	100.0	52.5
69.285	v	8.8	14.6	23.4	40.0	16.6	Pass	100.0	268.3
155.130	v	5.1	16.6	21.7	43.5	21.8	Pass	100.0	304.7
290.445	v	5.5	17.6	23.1	46.0	22.9	Pass	100.0	52.5
577.080	v	5.4	24.5	29.9	46.0	16.1	Pass	200.0	106.4
975.750	v	5.9	30.9	36.8	54.0	17.2	Pass	100.0	16.1

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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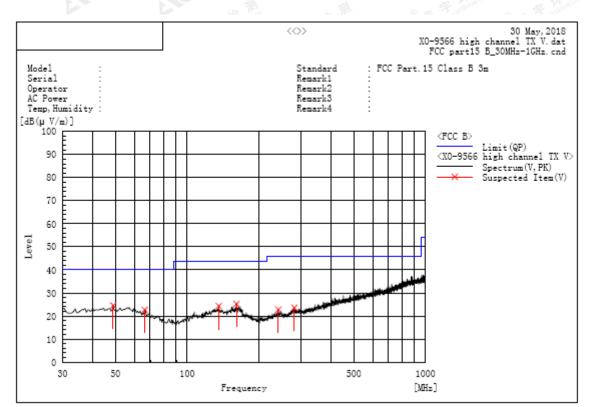
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
52.310	н	6.4	16.9	23.3	40.0	16.7	Pass	200.0	26.8
139.610	н	6.2	16.6	22.8	43.5	20.7	Pass	200.0	304.8
162.890	н	9.9	16.5	26.4	43.5	17.1	Pass	200.0	358.1
289.475	н	6.1	17.6	23.7	46.0	22.3	Pass	100.0	8.2
452.435	н	5.7	22.1	27.8	46.0	18.2	Pass	200.0	15.0
974.295	н	7.8	30.9	38.7	54.0	15.3	Pass	200.0	336.6

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
48.915	v	7.5	17.1	24.6	40.0	15.4	Pass	100.0	179.2
66.375	v	7.4	15.3	22.7	40.0	17.3	Pass	100.0	198.0
135.730	v	7.8	16.6	24.4	43.5	19.1	Pass	100.0	282.2
160.950	v	8.7	16.6	25.3	43.5	18.2	Pass	100.0	65.6
241.460	v	6.7	16.2	22.9	46.0	23.1	Pass	200.0	153.6
281.715	281.715 V 5.9		17.7	23.6	46.0	22.4	Pass	100.0	237.8

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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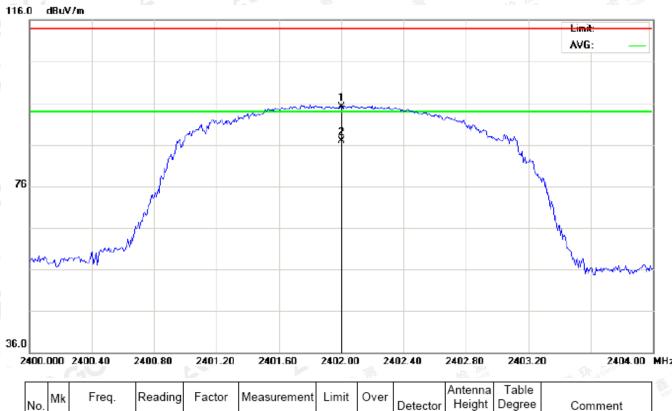
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



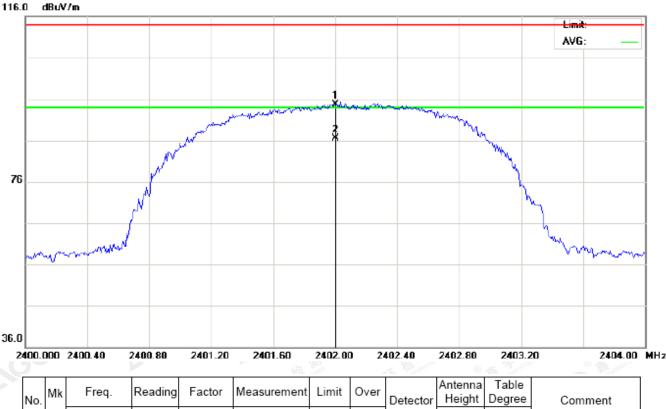
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	84.79	10.32	95.11	114.00	-18.89	peak			
2	*	2402.000	76.65	10.32	86.97	94.00	-7.03	AVG	100	119	

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

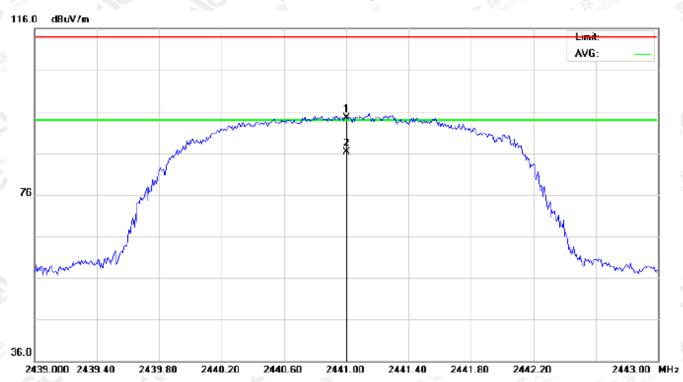
	2	*	2402.000	76.11	10.32	86.43	94.00	-7.57	AVG	100	341	
stati	1		2402.000	84.29	10.32	94.61	114.00	-19.39	peak			
15		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

(1												C ASE NON
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
7 tai	1		2441.000	84.13	10.36	94.49	114.00	-19.51	peak			
	2	*	2441.000	75.85	10.36	86.21	94.00	-7.79	AVG	100	117	

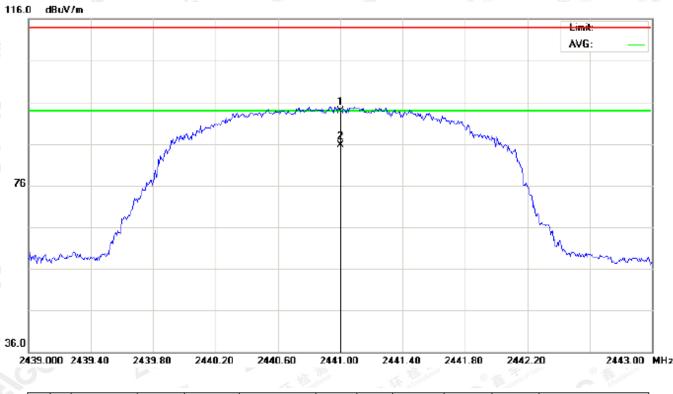
RESULT: PASS

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RADIATED EMISSION TEST- (ABC	OVE 1GHz)-MIDDLE CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2441.000	83.63	10.36	93.99	114.00	-20.01	peak			
2	*	2441.000	75.28	10.36	85.64	94.00	-8.36	AVG	100	344	

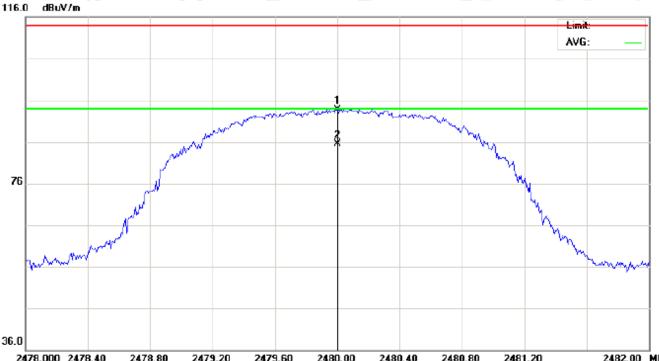
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

2478.000 2478.40 2478.80 2479.20 2479.60 2480.00 2480.40 2480.80 2481.20 2482.00 MHz

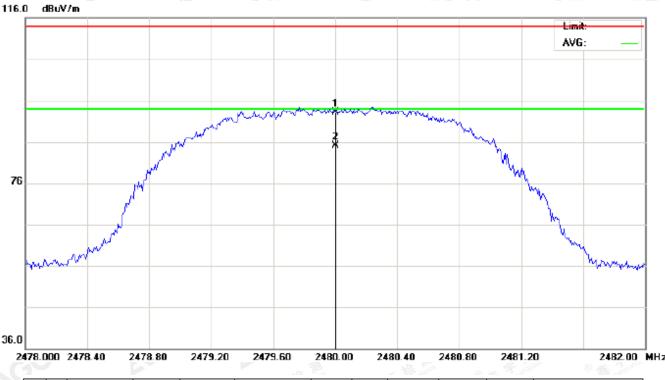
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
510	1		2480.000	83.25	10.41	93.66	114.00	-20.34	peak			
	2	*	2480.000	75.12	10.41	85.53	94.00	-8.47	AVG	100	134	

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

h., .						1.1.25	2482		2 162 2011	PGET	223	242.52
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
ali	1		2480.000	82.60	10.41	93.01	114.00	-20.99	peak			
	2	*	2480.000	74.68	10.41	85.09	94.00	-8.91	AVG	100	351	

RESULT: PASS

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Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	84.79	10.32	95.11	114	-18.89	Horizontal
2402	84.29	10.32	94.61	114	-18.39	Vertical
2441	84.13	10.36	94.49	114 🐋	-19.51 🙀	Horizontal
2441	83.63	10.36	93.99	114	-20.01	Vertical
2480	83.25	10.41	93.66	114	-20.34	Horizontal
2480	82.60	10.41	93.01	114	-20.99	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	76.65	10.32	86.97	94	-7.03	Horizontal	
2402	76.11	10.32	86.43	94	-7.57	Vertical	
2441	75.85	10.36	86.21	94	-7.79	Horizontal	
2441	75.28	10.36	85.64	94	-8.36	Vertical	
2480	75.12	10.41	85.53	94	-8.47	Horizontal	
2480	74.68	10.41	85.09	94	-8.91	Vertical	

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	84.03	10.32	94.35	114	-19.65	Horizontal	
2402	83.72	10.32	94.04	114	-19.96	Vertical	
2441	83.20	10.36	93.56	114	-20.44	Horizontal	
2441	82.92	10.36	93.28	114	-20.72	Vertical	
2480	82.54	10.41	92.95	114	-21.05	Horizontal	
2480	82.15	10.41	92.56	114	-21.44	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.44	10.32	84.76	94	-9.24	Horizontal
2402	74.12	10.32	84.44	94	-9.56	Vertical
2441	74.01	10.36	84.37	94	-9.63	Horizontal
2441	73.70	10.36	84.06	94	-9.94	Vertical
2480	72.93	10.41	83.34	94	-10.66	Horizontal
2480	72.63	10.41	83.04	94	-10.96	Vertical

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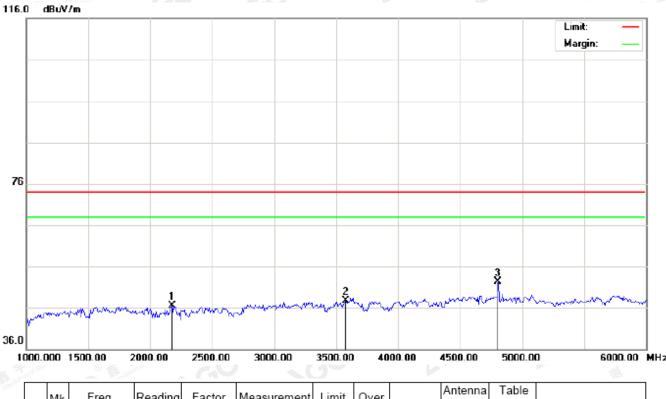


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(Worst modulation: GFSK)

For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment	
		-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree		
	1		2175.000	36.50	10.07	46.57	74.00	-27.43	peak				
	2		3575.000	35.20	12.57	47.77	74.00	-26.23	peak				N
4	3	*	4804.000	44.71	7.69	52.40	74.00	-21.60	peak				5

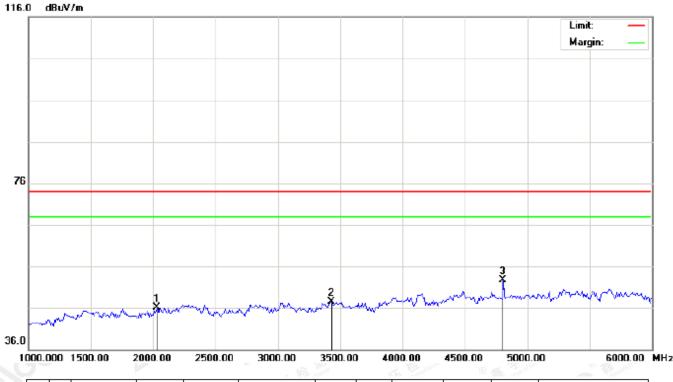
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
N.	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2033.333	36.09	9.92	46.01	74.00	-27.99	peak			
2		3433.333	35.54	12.05	47.59	74.00	-26.41	peak			
3	*	4804.000	45.05	7.69	52.74	74.00	-21.26	peak			

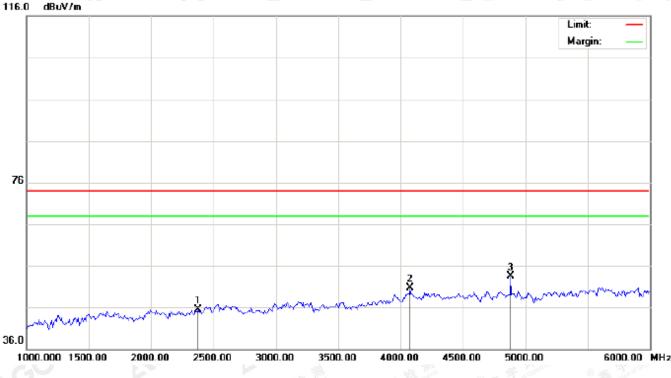
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

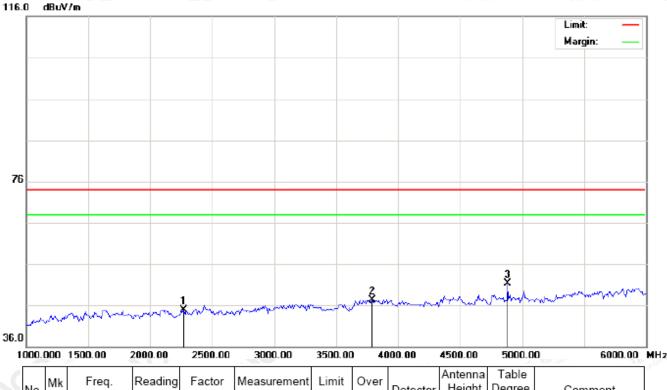
							1.1		2 10 9 20 11 11	7.43		200794L _1110
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
3	1		2375.000	35.18	10.29	45.47	74.00	-28.53	peak			
ſ	2		4075.000	36.69	13.94	50.63	74.00	-23.37	peak			
	3	*	4882.000	45.66	7.89	53.55	74.00	-20.45	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

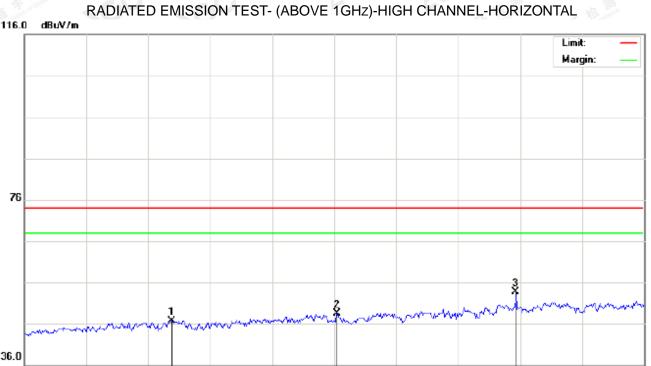
		uuu	1300.00	2000.00	2:00.00	.5000.00	3300.00	J 4U	UU. UU	4300.00	3000.0	L BUDU. UU
9	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
2	1		2266.667	34.83	10.17	45.00	74.00	-29.00	peak			
stal	2		3791.667	33.46	13.91	47.37	74.00	-26.63	peak			
	3	*	4882.000	43.39	7.89	51.28	74.00	-22.72	peak			

RESULT: PASS

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36.0

1	1000.000 1500.00 2		2000.00 2500.00		3000.00	3500.00 4000.00		4500.00	5000.00	6000.00	MHz		
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	³¹ Cours
		-	MHz	dBu∨	dB/m	dBu∨/m	dBu∨/m	dB		cm	degree		
	1		2191.667	36.61	10.09	46.70	74.00	-27.30	peak				
	2		3525.000	36.29	12.26	48.55	74.00	-25.45	peak				1
	3	*	4960.000	45.60	8.09	53.69	74.00	-20.31	peak				

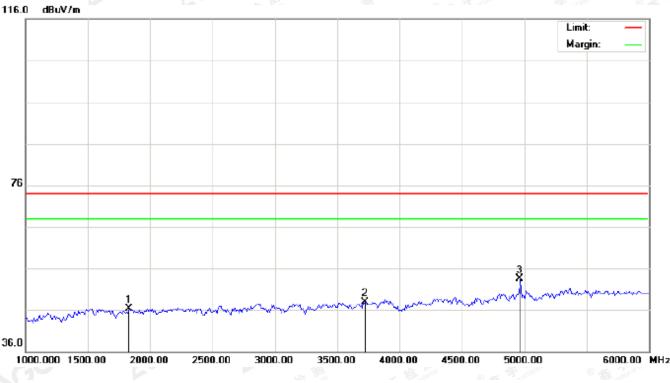
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ġ.		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
8	1		1833.333	38.16	8.13	46.29	74.00	-27.71	peak			
ſ	2		3725.000	34.42	13.50	47.92	74.00	-26.08	peak			
	3	*	4960.000	45.41	8.09	53.50	74.00	-20.50	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

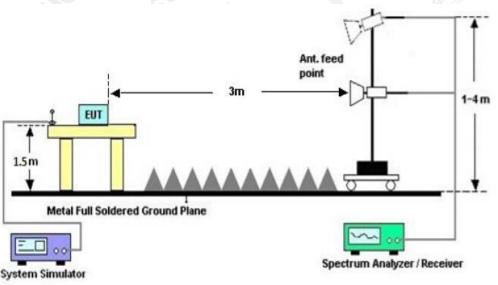
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency	y(MHz)	Stop frequency(MHz)			
2200	电型 环境	nce C Stratter	2405	SC -	
2478	C Austano of Gou	GO	2500		
Aller Aller					

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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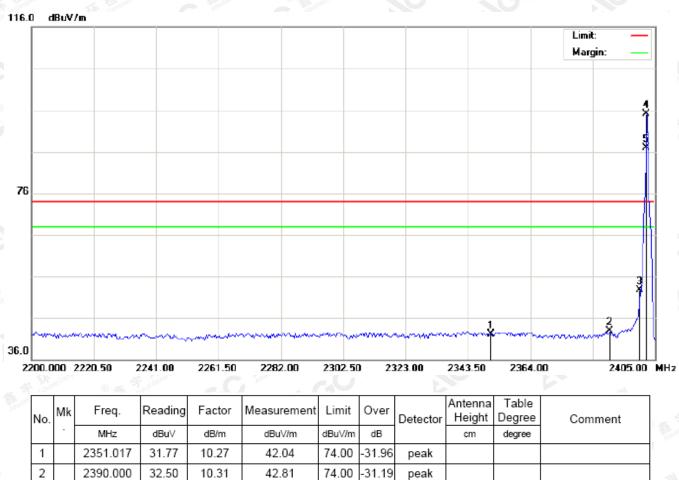


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



74.00

74.00

74.00

-21.21

21.04

12.91

peak

peak

AVG

100

124

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3

4

5

х

2400.000

2402.000

2402.000

42.47

84.72

76.59

10.32

10.32

10.32

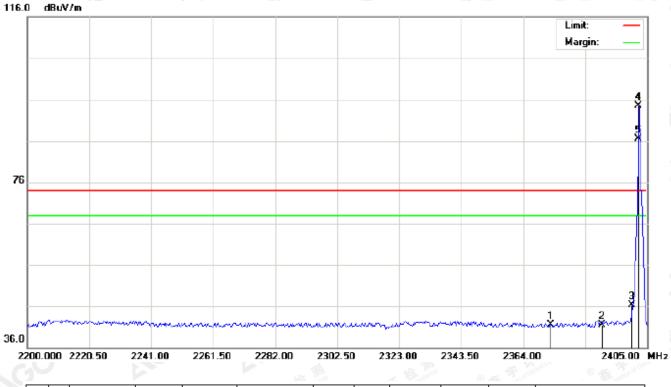
52.79

95.04

86.91



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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Pr Detector Height D			Comment
×		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
10	1		2373.225	31.14	10.29	41.43	74.00	-32.57	peak			
[2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
	3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
	4	*	2402.000	84.09	10.32	94.41	74.00	20.41	peak			
	5	х	2402.000	76.10	10.32	86.42	74.00	12.42	AVG	100	341	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

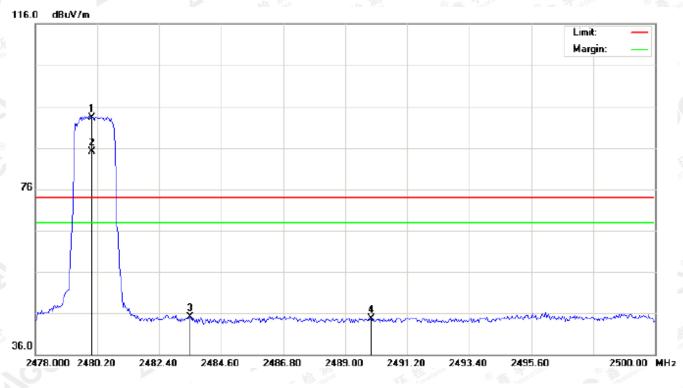
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	er Detector Height Deg			Comment
ġ		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
stal	1	*	2480.000	83.05	10.41	93.46	74.00	19.46	peak			
	2	Х	2480.000	75.15	10.41	85.56	74.00	11.56	AVG	100	121	
	3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
	4		2489.073	33.43	10.42	43.85	74.00	-30.15	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
No.	-	MHz	dBuV	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1	*	2480.000	82.82	10.41	93.23	74.00	19.23	peak			
2	Х	2480.000	74.70	10.41	85.11	74.00	11.11	AVG	100	347	
3		2483.500	34.76	10.41	45.17	74.00	-28.83	peak			
4		2489.917	34.36	10.42	44.78	74.00	-29.22	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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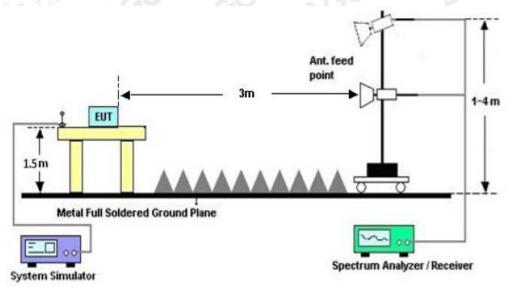
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW \geq 1% of the 20 dB bandwidth, VBW \geq 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP

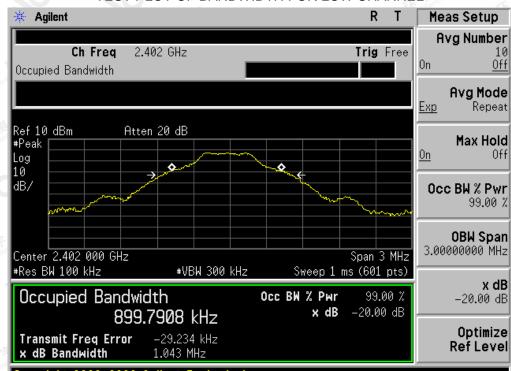


11.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Test Data (MHz)								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
the The second second	Low Channel	0.900	1.043	PASS						
N/A	Middle Channel	0.895	1.058	PASS						
	High Channel	0.896	1.041	PASS						

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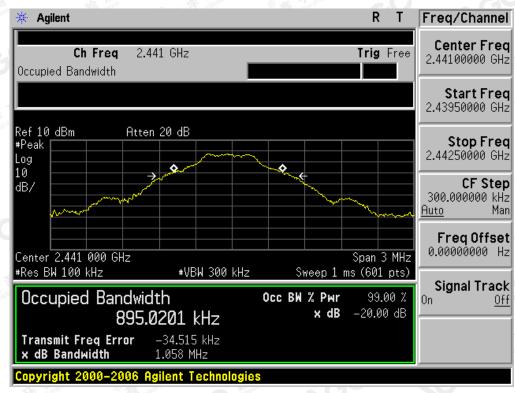


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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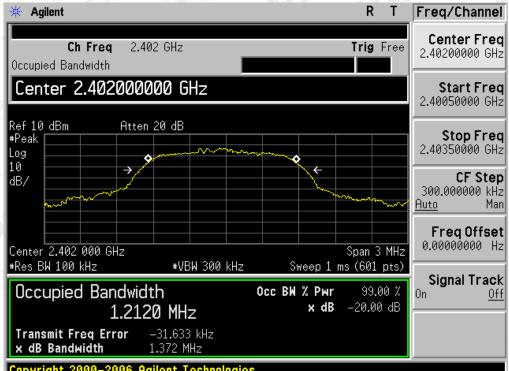
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Desult							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
· The Barrows The Barrows	Low Channel	1.212	1.372	PASS					
N/A	Middle Channel	1.222	1.395	PASS					
	High Channel	1.211	1.364	PASS					

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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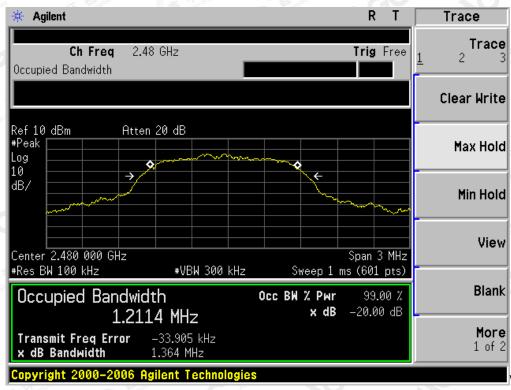
测

检



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

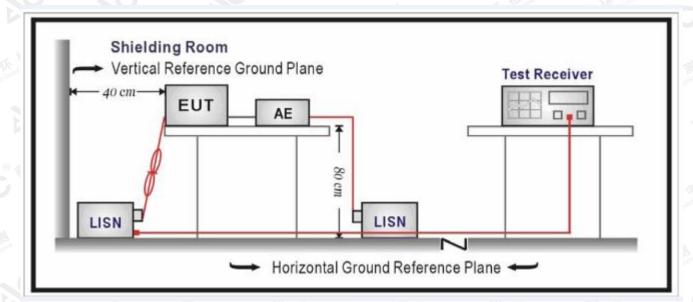
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56	46					
5MHz~30MHz	60	50					

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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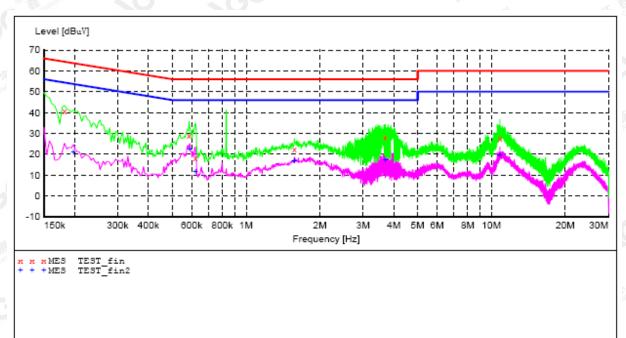
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000	40.90	10.0	64	23.5	QP	L1	FLO
0.586000	28.90	10.1	56	27.1	QP	L1	FLO
0.622000	18.40	10.1	56	37.6	QP	L1	FLO
1.574000	22.40	10.2	56	33.6	QP	L1	FLO
3.690000	28.00	10.1	56	28.0	QP	L1	FLO
10.822000	27.70	9.7	60	32.3	QP	L1	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000 0.590000 0.622000 1.574000 3.698000 10.822000	21.20 22.40 11.60 17.00 17.10 19.50	10.1 10.1 10.2 10.1 9.7	54 46 46 46 50	32.5 23.6 34.4 29.0 28.9 30.5	AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

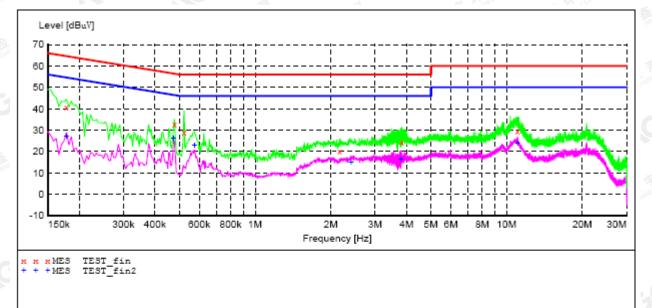
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MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.178000 0.478000 0.522000 2.170000 3.830000 11.042000	40.60 33.00 28.80 20.30 24.30 29.70	10.0 10.1 10.1 10.1 10.1 9.6	65 56 56 56 56 60	24.0 23.4 27.2 35.7 31.7 30.3	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

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Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.178000	27.30	10.0	55	27.3	AV	Ν	FLO
0.474000	26.20	10.1	46	20.2	AV	Ν	FLO
0.574000	23.00	10.1	46	23.0	AV	N	FLO
2.406000	14.90	10.0	46	31.1	AV	N	FLO
3.802000	16.60	10.1	46	29.4	AV	N	FLO
11.050000	23.80	9.6	50	26.2		N	FLO

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E-mail: agc@agc-cert.com

() 400 089 2118



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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0 2 **001 500** 30 02 08 06 06 **001** 01 0,

BOTTOM VIEW OF EUT

FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2



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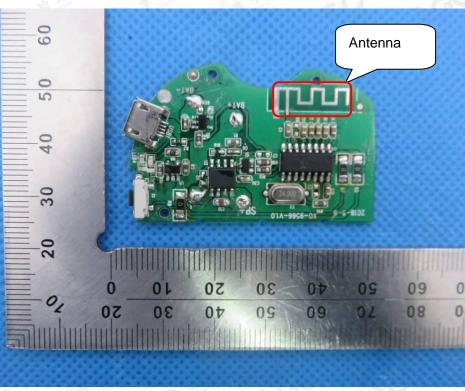


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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



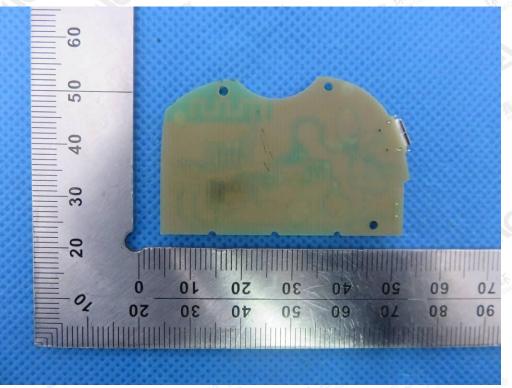
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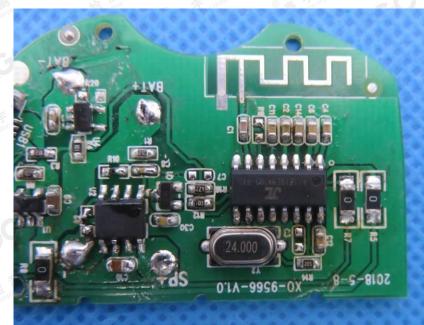


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INTERNAL VIEW OF EUT-3



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VIEW OF ADAPTER (AE)



The adapter was supplied by AGC ----END OF REPORT----

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