

FCC Test Report

Report No.: AGC01935180602FE03

FCC ID 2AA4B51805289

APPLICATION PURPOSE **Original Equipment**

PRODUCT DESIGNATION Bluetooth Speaker

BRAND NAME N/A

MODEL NAME 51805289, CU9556, R2250

CLIENT Shenzhen E-wonderland Electronic Co., Ltd.

DATE OF ISSUE July 11, 2018

STANDARD(S)

TEST PROCEDURE(S)

FCC Part 15 Subpart C Section 15.249

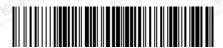
REPORT VERSION

Attestation of Global Compliance (Shenzhen) Co., Ltd

& AGC ATHEN

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		July 11, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen E-wonderland Electronic Co., Ltd.			
Address	Floor 5, No. 6, Puyuwei Road, Shangliao, Shajing Town, Baoan District, Shenzhen, China			
Manufacturer	Shenzhen Musos Electronic Co., Ltd.			
Address	Floor 5, No. 6, Puyuwei Road, Shangliao, Shajing Town, Baoan District, Shenzhen,China			
Product Designation	Bluetooth Speaker			
Brand Name	N/A			
Test Model	51805289			
Series Model	CU9556, R2250			
Difference Description	All the same except for the model name			
Date of test	June 29, 2018 to July 07, 2018			
Deviation	None 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 Wang	
A State of the sta	Jonhen Wang(Wang Yonghuan)	July 07, 2018
Reviewed By	and change	
	Cool Cheng(Cheng Mengguo)	July 11, 2018
Approved By	Forety ce	
S A STATE OF THE S	Forrest Lei(Lei Yonggang) Authorized Officer	July 11, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Mary Mon	
Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V1.1
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	-0.68dBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	sed 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		
Management of close (C) Allegation of the control o	0	2402MHz		
	1 1	2403MHz		
To the sales	The completion of the country of the	CO CO		
S A STATE OF COURT CO.	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	40	2442 MHz		
The Market Same of the Colors Comme	O Francisco Co Marine	0 20		
decident CO Marie CO	77	2479 MHz		
	78	2480 MHz		

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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

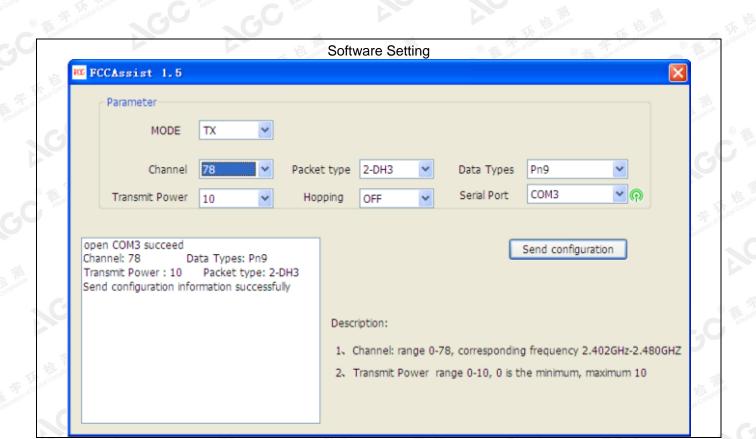
NO.	TEST MODE DESCRIPTION			
1 The Companie	Low channel GFSK			
2	Middle channel GFSK			
3	High channel GFSK			
4	Low channel π /4-DQPSK			
5 K 1	Middle channel π /4-DQPSK			
6	High channel π /4-DQPSK			
7	BT Link with charging			
8	BT Link(Hopping mode)			

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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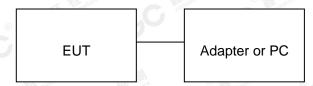


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5. SYSTEM TEST CONFIGURATION

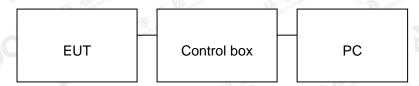
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



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

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1	Bluetooth Speaker	Musos	51805289	EUT	
2	Battery	Weiliyuan	523450	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	0.5m unshielded	Accessory	
8	AUX IN Cable	N/A	0.5m unshielded	Accessory	
9	Mobile phone	HUAWEI	V9 V9	A.E	
10	TF Card	Kingston	SDA10/16GB	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, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B	-1111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The Conditions of the Conditio	Jun.20, 2018	Jun.19, 2019

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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	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)	9				
0.490 ~ 1.705	30	24000/F(kHz)	E. A. S.				
1.705 ~ 30	30	30	E Cobado @ E Color				
30 ~ 88	3	100	40.0				
88 ~ 216	3 - 6	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	3 January CO	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

- 1. 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)
- 2. 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)
- 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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The following table is the setting of spectrum analyzer and receiver.

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

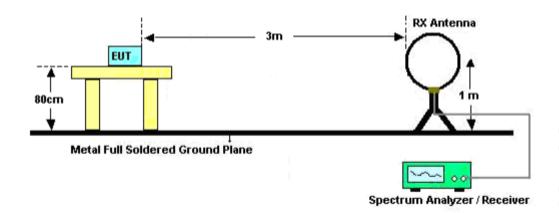
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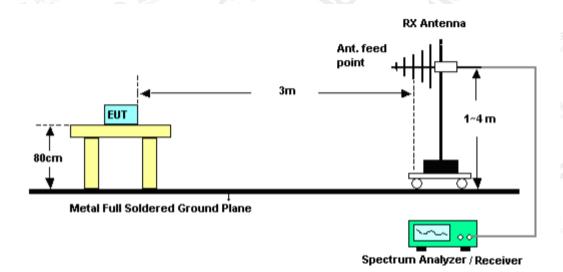
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9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

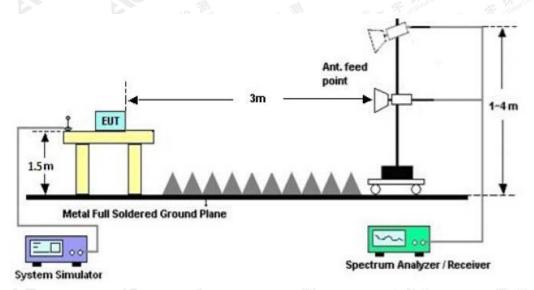


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		99.5167	24.94	10.00	34.94	43.50	-8.56	peak			
2		170.6500	19.43	10.72	30.15	43.50	-13.35	peak			
3	*	269.2667	30.20	10.18	40.38	46.00	-5.62	peak			
4		325.8500	11.42	17.13	28.55	46.00	-17.45	peak			
5		683.1332	0.13	24.76	24.89	46.00	-21.11	peak			
6		954.7332	2.14	29.95	32.09	46.00	-13.91	peak			

RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		130.2332	25.52	11.13	36.65	43.50	-6.85	peak			
2	*	266.0333	26.83	14.38	41.21	46.00	-4.79	peak			
3		363.0333	6.17	18.83	25.00	46.00	-21.00	peak			
4		550.5667	2.96	22.48	25.44	46.00	-20.56	peak			
5		741.3333	2.14	26.38	28.52	46.00	-17.48	peak			
6		941.8000	2.06	29.77	31.83	46.00	-14.17	peak			

RESULT: PASS

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

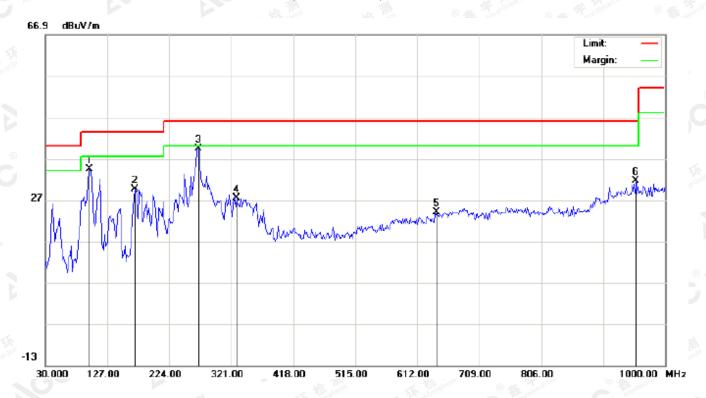
2. The "Factor" value can be calculated automatically by software of measurement system.

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
3	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		99.5167	24.44	10.00	34.44	43.50	-9.06	peak			
2		170.6500	18.93	10.72	29.65	43.50	-13.85	peak			
3	*	269.2667	29.20	10.18	39.38	46.00	-6.62	peak			
4		329.0833	10.12	17.35	27.47	46.00	-18.53	peak			
5		642.7166	0.20	23.83	24.03	46.00	-21.97	peak			
6		954.7332	1.64	29.95	31.59	46.00	-14.41	peak			

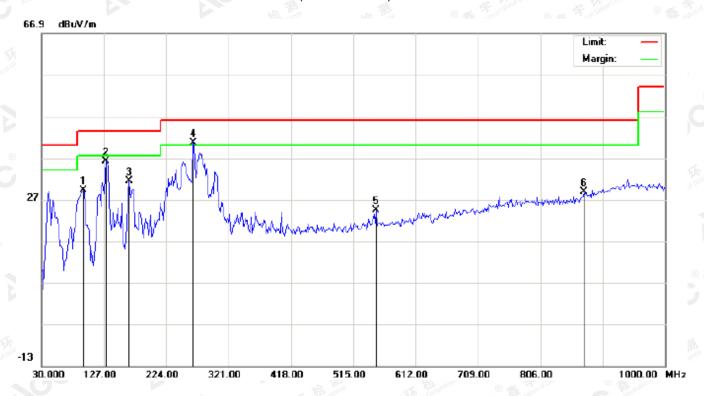
RESULT: PASS

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



N	0.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
3		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	ı		94.6667	27.75	1.42	29.17	43.50	-14.33	peak			
2	2		130.2332	25.02	11.13	36.15	43.50	-7.35	peak			
3	3		165.8000	16.53	14.96	31.49	43.50	-12.01	peak			
4	1	*	266.0332	26.32	14.38	40.70	46.00	-5.30	peak			
	5		550.5666	1.96	22.48	24.44	46.00	-21.56	peak			
6	5		873.8999	0.86	27.93	28.79	46.00	-17.21	peak			

RESULT: PASS

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

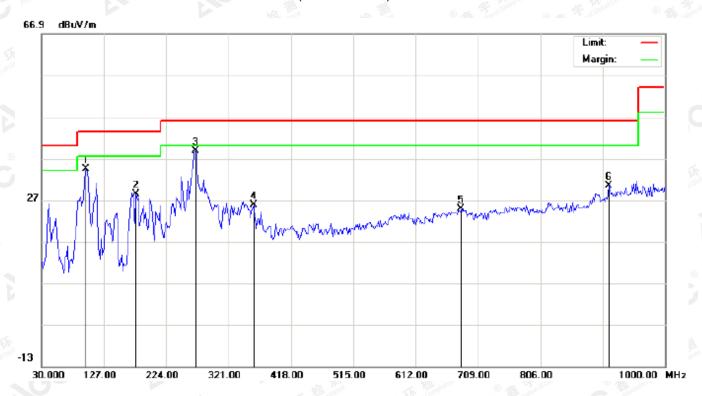
2. The "Factor" value can be calculated automatically by software of measurement system.

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



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	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
100	1		99.5167	24.44	10.00	34.44	43.50	-9.06	peak			
	2		177.1167	17.35	10.96	28.31	43.50	-15.19	peak			
	3	*	269.2667	28.70	10.18	38.88	46.00	-7.12	peak			
	4		359.8000	6.94	18.80	25.74	46.00	-20.26	peak			
	5		683.1331	0.13	24.76	24.89	46.00	-21.11	peak			
1	6		912.7000	1.54	28.96	30.50	46.00	-15.50	peak			

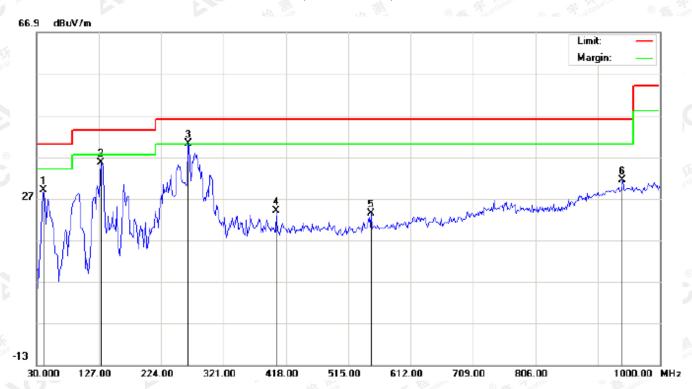
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		41.3166	20.19	8.81	29.00	40.00	-11.00	peak			
2		130.2332	24.52	11.13	35.65	43.50	-7.85	peak			
3	*	266.0332	25.82	14.38	40.20	46.00	-5.80	peak			
4		403.4499	4.76	19.17	23.93	46.00	-22.07	peak			
5		550.5665	0.96	22.48	23.44	46.00	-22.56	peak			
6		941.7998	1.56	29.77	31.33	46.00	-14.67	peak			

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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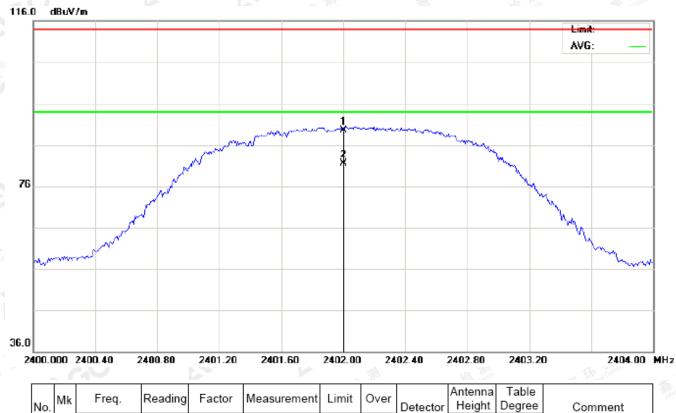
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1		2402.000	79.14	10.32	89.46	114.00	-24.54	peak			
E	2	*	2402.000	71.16	10.32	81.48	94.00	-12.52	AVG	100	49	

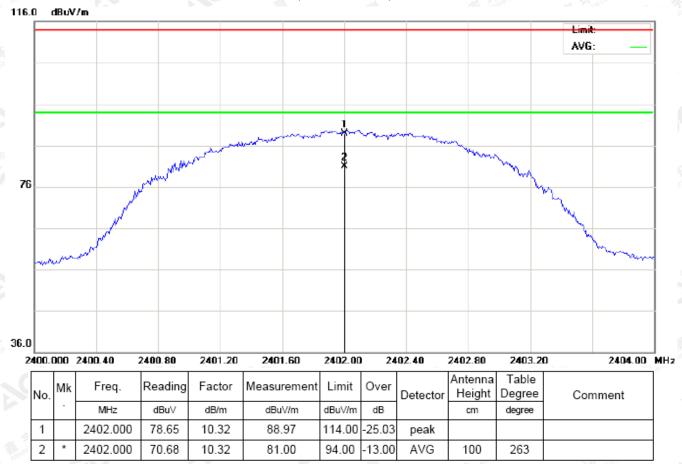
RESULT. PASS

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



RESULT: PASS

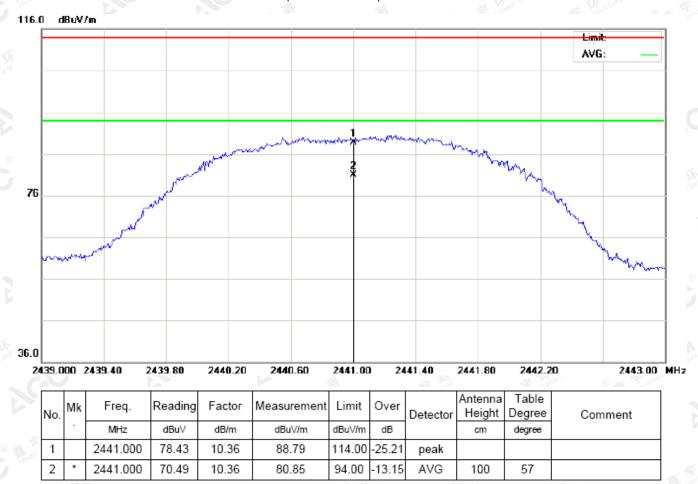
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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



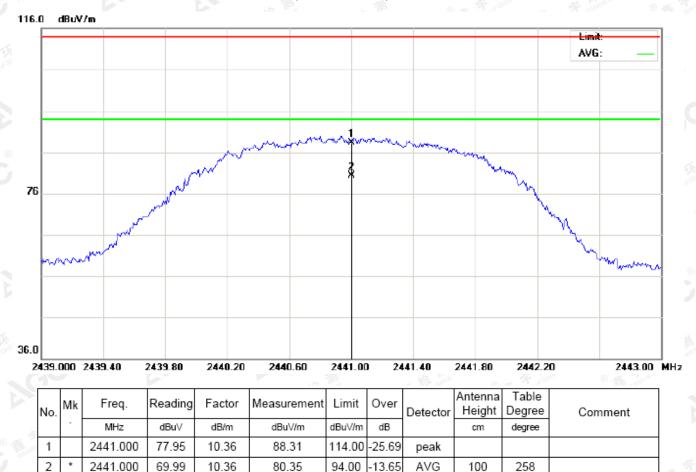
RESULT: PASS

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



94.00

-13.65

AVG

100

258

RESULT: PASS

69.99

10.36

80.35

2

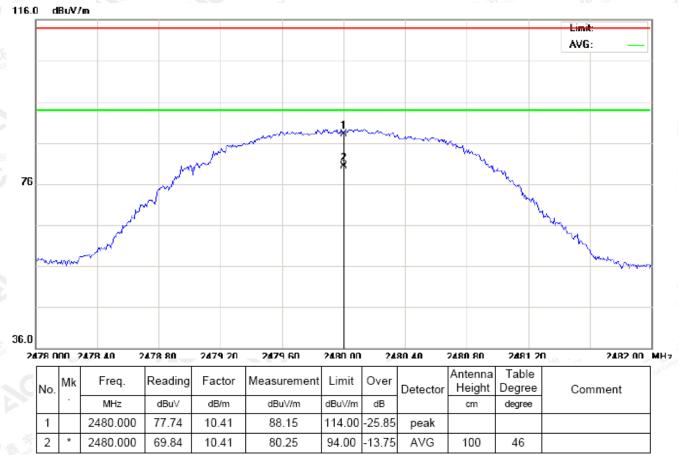
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



RESULT: PASS

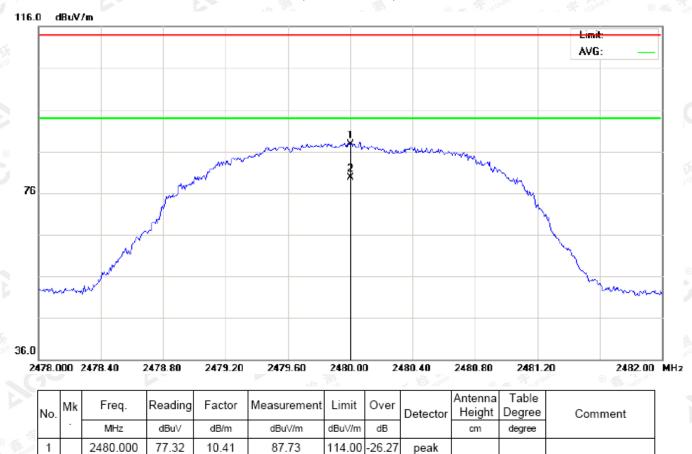
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



RESULT: PASS

2

2480.000

69.30

10.41

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

79.71

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

94.00

-14.29

AVG

100

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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	79.14	10.32	89.45	114	-24.54	Horizontal
2402	78.65	10.32	88.97	114	-25.03	Vertical
2441	78.43	10.36	88.79	114	-25.21	Horizontal
2441	77.95	10.36	88.31	114	-25.69	Vertical
2480	77.74	10.41	88.15	114	-25.85	Horizontal
2480	77.32	10.41	87.73	114	-26.27	Vertical

Average value

					Cloud C Ask		
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	71.16	10.32	81.48	94	-12.52	Horizontal	
2402	70.68	10.32	81.00	94	-13.00	Vertical	
2441	70.49	10.36	80.85	94	-13.15	Horizontal	
2441	69.99	10.36	80.35	94	-13.65	Vertical	
2480	69.84	10.41	80.25	94	-13.75	Horizontal	
2480	69.30	10.41	79.71	94	-14.29	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	78.83	10.32	89.15	114	-24.85	Horizontal	
2402	78.36	10.32	88.68	114	-25.32	Vertical	
2441	78.10	10.36	88.46	114	-25.54	Horizontal	
2441	77.66	10.36	88.02	114	-25.98	Vertical	
2480	77.38	10.41	87.79	114	-26.21	Horizontal	
2480	76.97	10.41	87.38	114	-26.62	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	70.77	10.32	81.09	94	-12.91	Horizontal	
2402	70.41	10.32	80.73	94	-13.27	Vertical	
2441	69.99	10.36	80.35	94	-13.65	Horizontal	
2441	69.63	10.36	79.99	94	-14.01	Vertical	
2480	69.47	10.41	79.88	94	-14.12	Horizontal	
2480	68.84	10.41	79.25	94	-14.75	Vertical	

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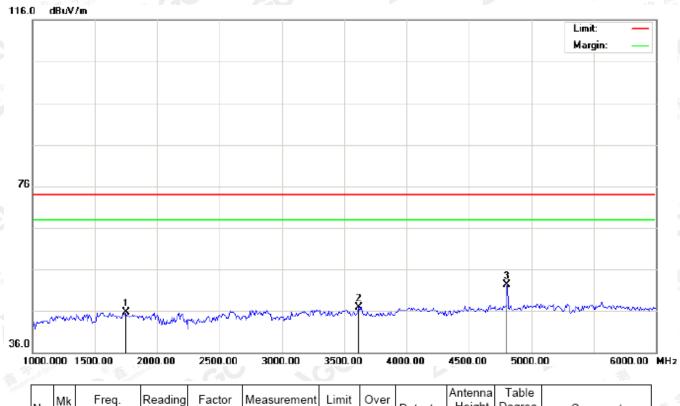


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(Worst modulation: GFSK)

For Harmonics

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1750.000	38.35	7.25	45.60	74.00	-28.40	peak			
2		3616.667	34.05	12.83	46.88	74.00	-27.12	peak			
3	*	4804.000	44.71	7.69	52.40	74.00	-21.60	peak			

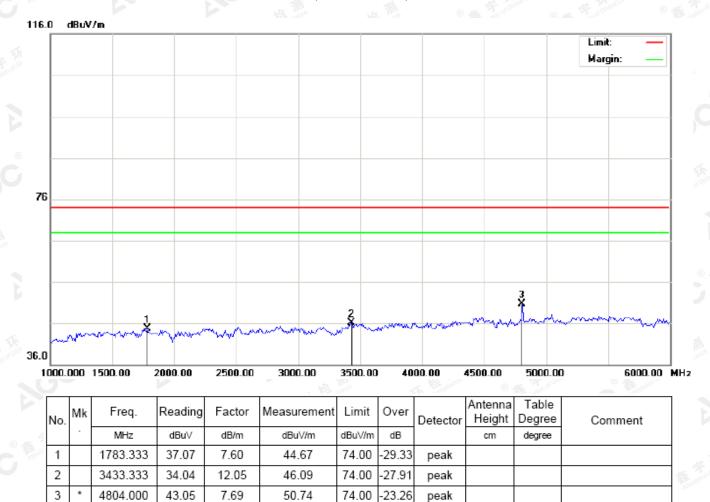
RESULT: PASS

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



RESULT: PASS

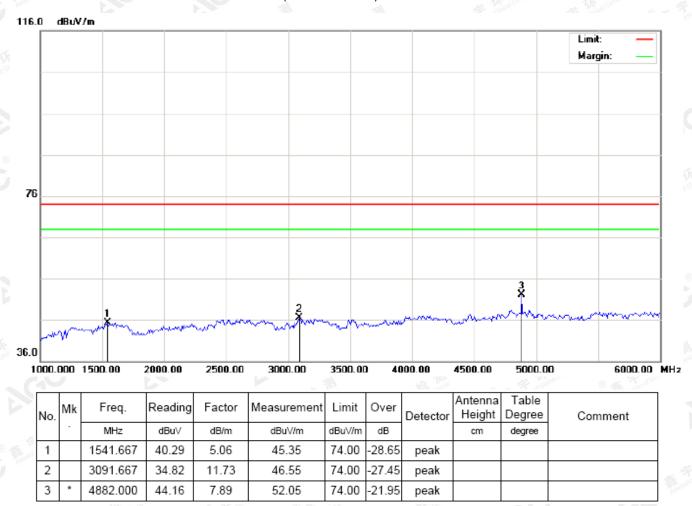
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peak



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



RESULT: PASS

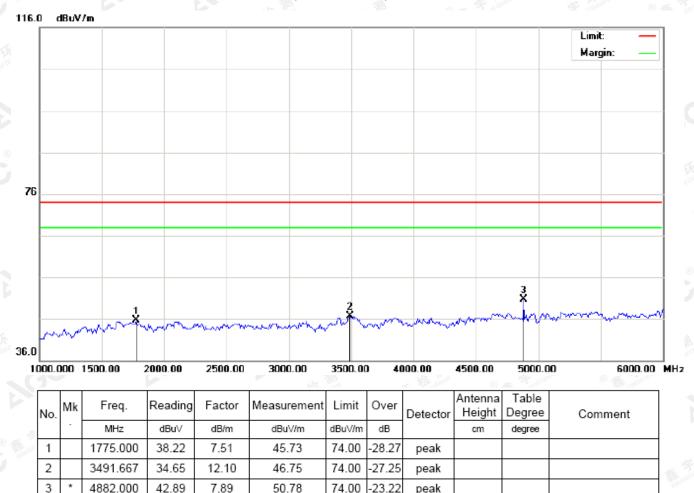
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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



RESULT: PASS

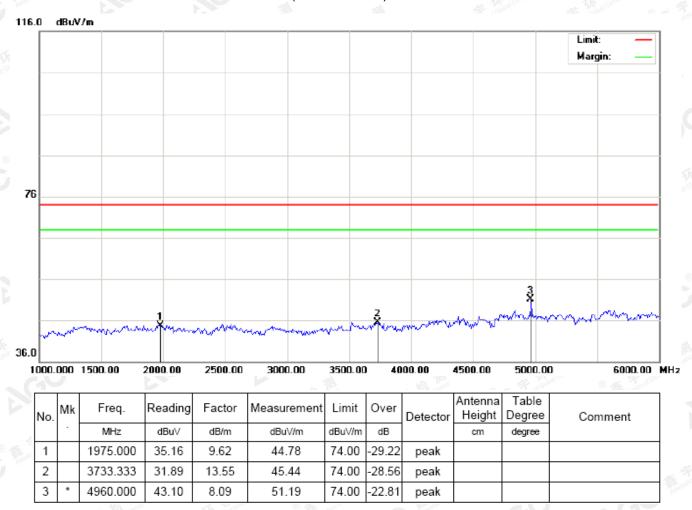
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



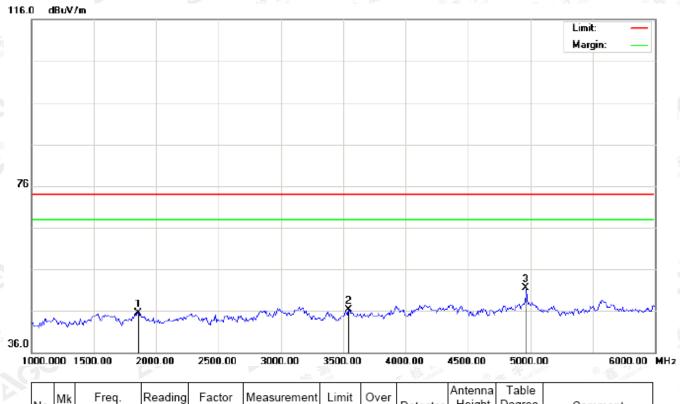
RESULT: PASS

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



No	J. 1	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	- [MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1			1858.333	37.07	8.39	45.46	74.00	-28.54	peak			
2			3541.667	33.90	12.37	46.27	74.00	-27.73	peak			
3		*	4960.000	43.41	8.09	51.50	74.00	-22.50	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

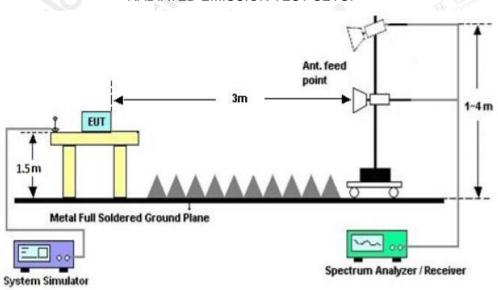
10.1. MEASUREMENT PROCEDURE

- 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(MHz)				Stop frequency(MHz)			
	2200	K KE TILL	The town has	® ##	2405	CO		
® All Street and the	2478	Global ®	Allestation of City	GO	2500			

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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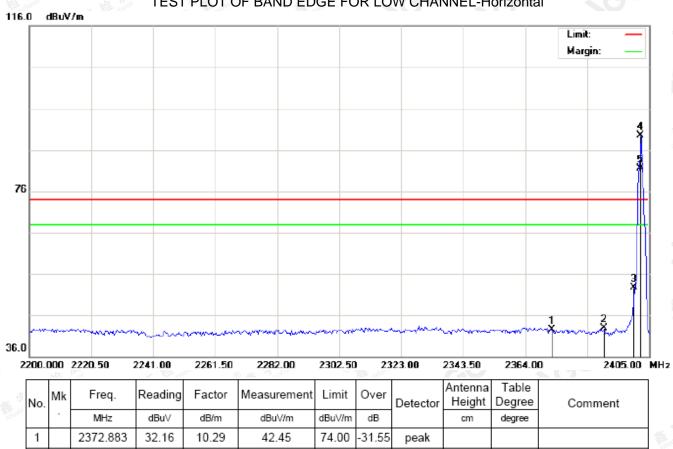


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
Sto		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1		2372.883	32.16	10.29	42.45	74.00	-31.55	peak			
	2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
	3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
	4	*	2402.000	79.22	10.32	89.54	74.00	15.54	peak			
	5	Х	2402.000	71.23	10.32	81.55	74.00	7.55	AVG	100	57	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



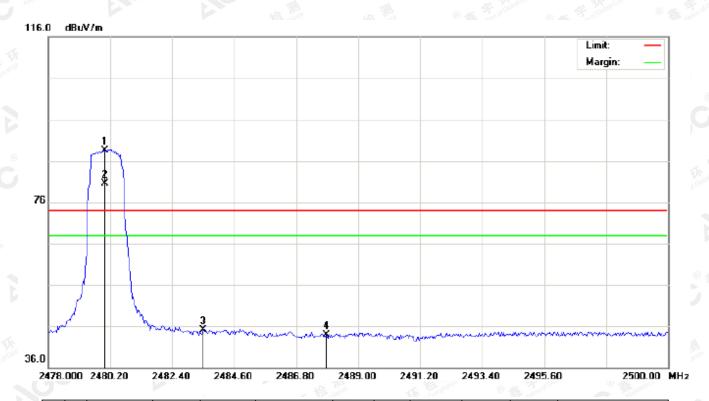
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2372.200	31.33	10.29	41.62	74.00	-32.38	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	79.09	10.32	89.41	74.00	15.41	peak			
5	Х	2402.000	70.81	10.32	81.13	74.00	7.13	AVG	100		

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
310	1	*	2480.000	78.05	10.41	88.46	74.00	14.46	peak			
	2	Х	2480.000	70.06	10.41	80.47	74.00	6.47	AVG	100	52	
	3		2483.500	34.69	10.41	45.10	74.00	-28.90	peak			
	4		2487.863	33.40	10.42	43.82	74.00	-30.18	peak			-

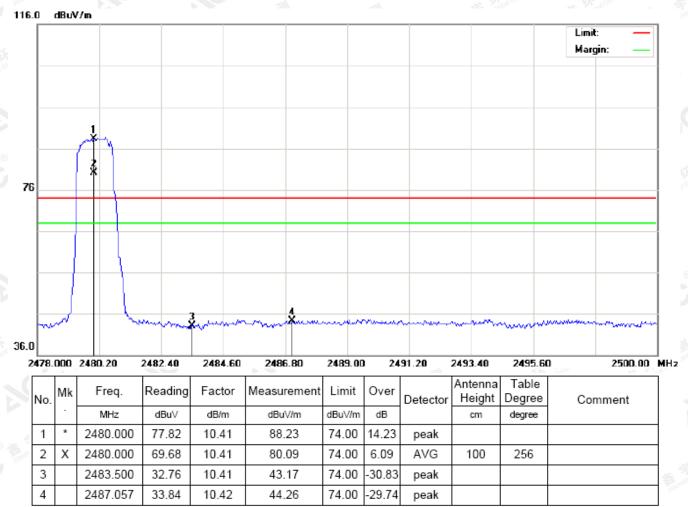
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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



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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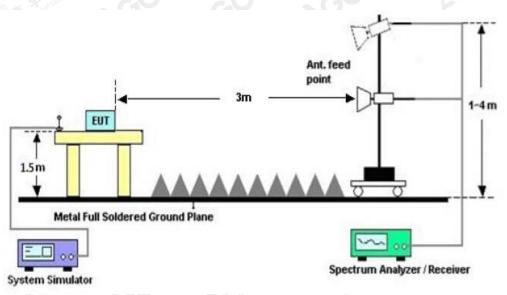
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11. 20DB BANDWIDTH

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 ≥ 1% of the 20 dB bandwidth, VBW ≥ 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

BLUET	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Test Data (MHz)						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
IN THE STATE OF TH	Low Channel	0.930	1.102	PASS				
N/A	Middle Channel	0.924	1.104	PASS				
	High Channel	0.927	1.101	PASS				

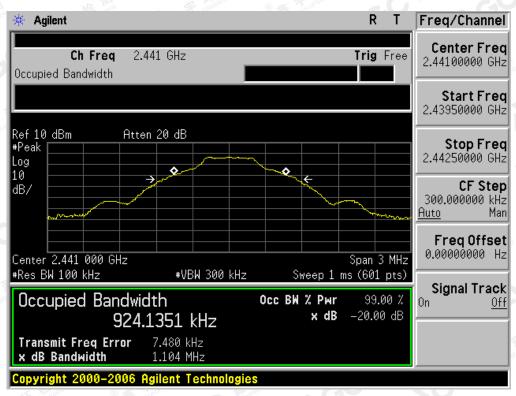
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

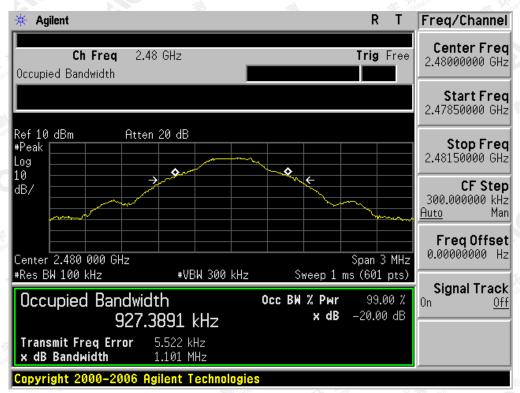


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



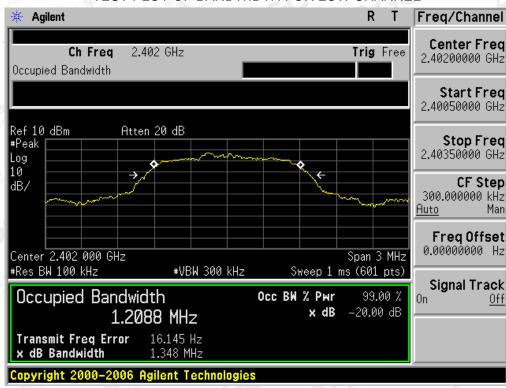
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BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Doorle						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
IN 18 199	Low Channel	1.209	1.348	PASS				
N/A	Middle Channel	1.209	1.361	PASS				
	High Channel	1.211	1.379	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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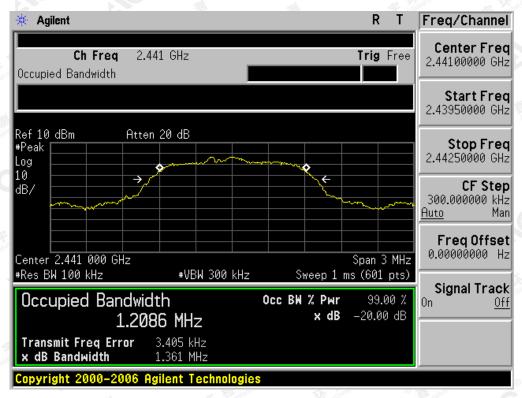
E-mail: agc@agc-cert.com

@ 400 089 2118

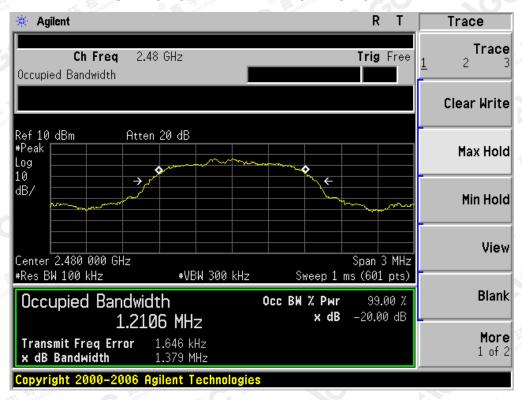
Tel: +86-755 2908 1955



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

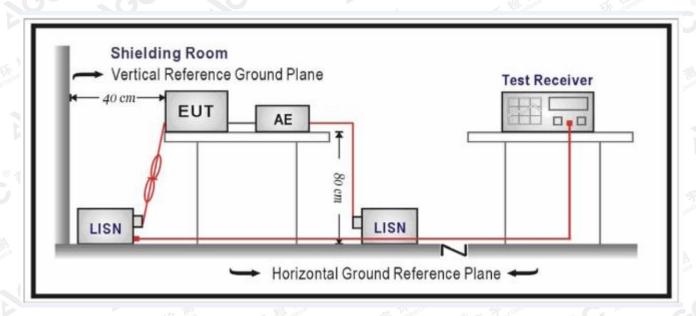
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	© 48 7 10 10 10 10 10 10 10 10 10 10 10 10 10	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

- 1. 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

- 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.

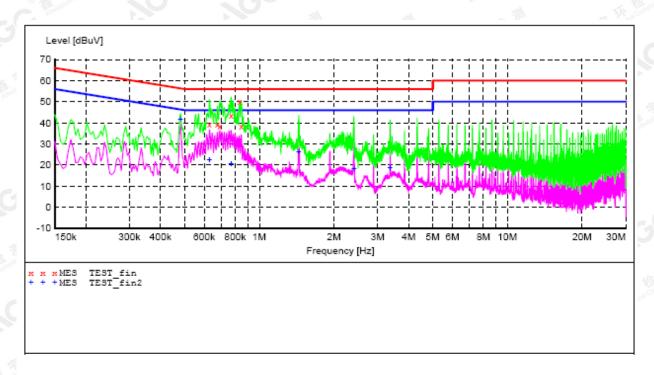
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

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
0.630000 0.678000 0.694000 0.770000 0.834000 0.846000	39.30 39.10 38.50 43.50 50.00 38.60	11.4 11.4 11.4 11.4 11.3	56 56 56 56 56	16.7 16.9 17.5 12.5 6.0 17.4	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.482000 0.630000 0.770000	41.80 22.70 20.80	11.4 11.4 11.4	46 46 46	25.2	AV AV	L1 L1 L1	FLO FLO FLO
1.442000 2.406000 3.366000	26.10 18.10 18.90	11.3 11.3 11.4	46 46 46	19.9 27.9 27.1	AV AV AV	L1 L1 L1	FLO FLO FLO

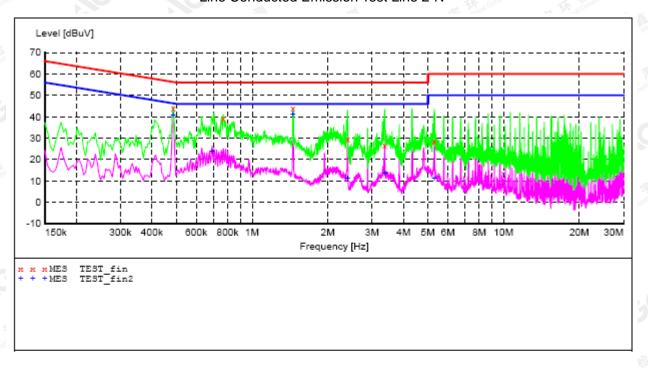
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Line Conducted Emission Test Line 2-N

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MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.486000	43.90	11.4	56	12.3	OP	N	FLO
0.766000	39.10	11.4	56	16.9	QP	N	FLO
1.454000	44.10	11.3	56	11.9	QP	N	FLO
2.398000	29.60	11.3	56	26.4	QP	N	FLO
3.366000	26.70	11.4	56	29.3	QP	N	FLO
5.310000	28.70	11.4	60	31.3	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.486000 0.694000	40.90 23.80	11.4 11.4	46 46	5.3 22.2		N N	FLO FLO
1.454000	41.40	11.3	46	4.6	AV	N	FLO
2.398000	11.20	11.3	46	34.8	AV	N	FLO
3.370000	13.40	11.4	46	32.6	AV	N	FLO
5.310000	11.30	11.4	50	38.7	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP

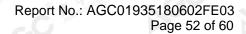


FCC RADIATED EMISSION TEST SETUP



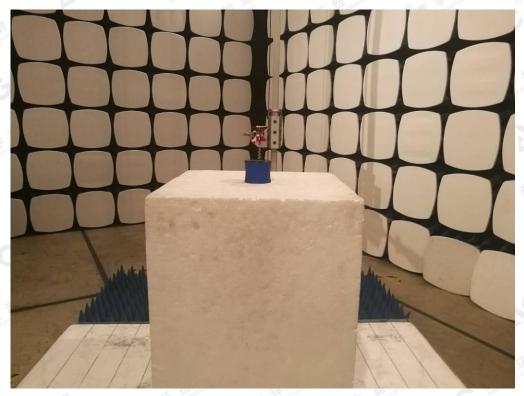
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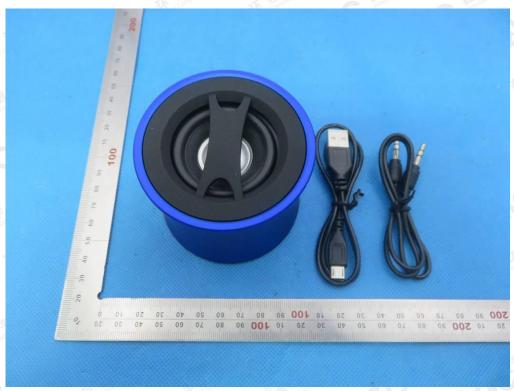
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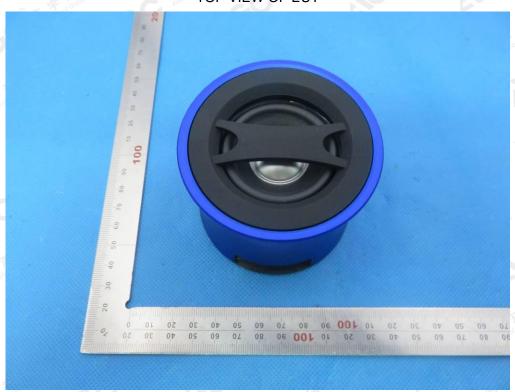


APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT

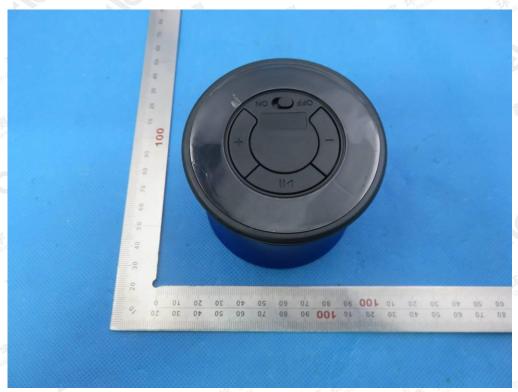


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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT

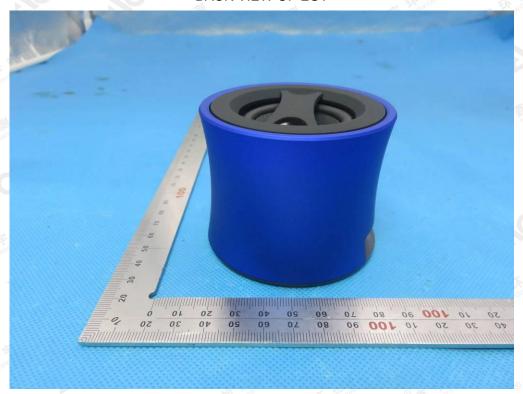


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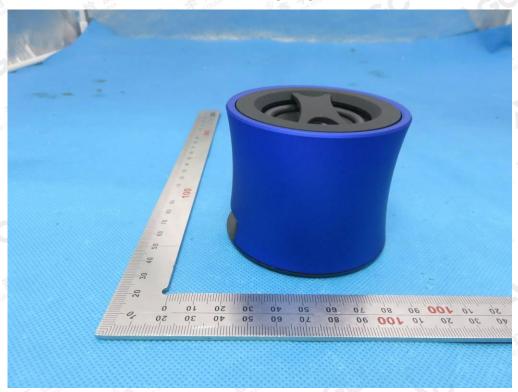
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BACK VIEW OF EUT



LEFT VIEW OF EUT



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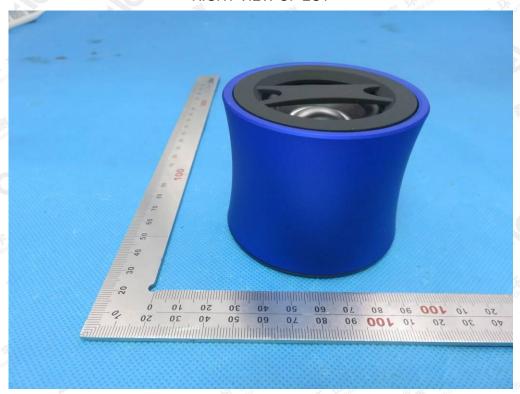
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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)

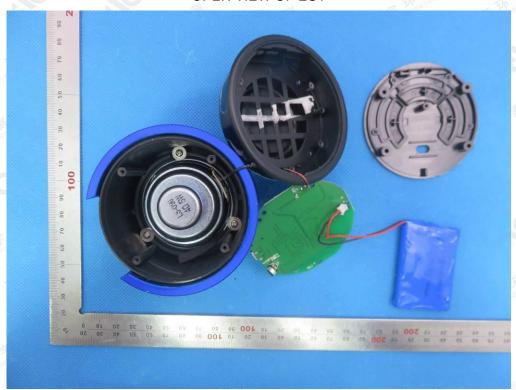


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OPEN VIEW OF EUT



VIEW OF BATTERY

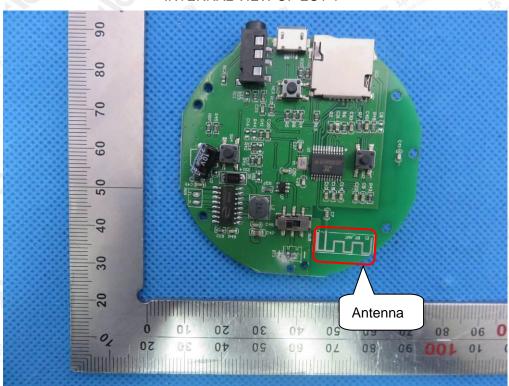


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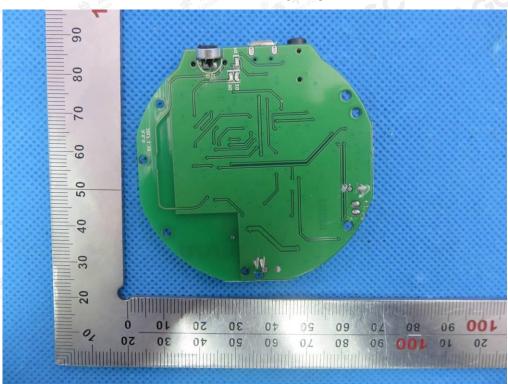
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

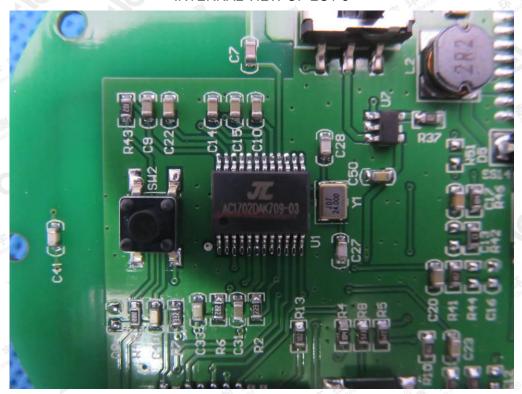


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INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

----END OF REPORT----

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