

FCC Test Report

Report No.: AGC00737180615FE03

FCC ID: 2AMH2-BMBH293BAPPLICATION PURPOSE: 0riginal EquipmentPRODUCT DESIGNATION: Bluetooth headset with microphoneBRAND NAME: MPOWMODEL NAME: BMBH293ACLIENT: MPOW TECHNOLOGY CO., LIMITEDDATE OF ISSUE: Jul 11, 2018STANDARD(S) TEST PROCEDURE(S): FCC Part 15 Subpart C Section 15.249REPORT VERSION: V1.0		
PRODUCT DESIGNATION: Bluetooth headset with microphoneBRAND NAME: MPOWMODEL NAME: BMBH293ACLIENT: MPOW TECHNOLOGY CO., LIMITEDDATE OF ISSUE: Jul 11, 2018STANDARD(S) TEST PROCEDURE(S): FCC Part 15 Subpart C Section 15.249	FCC ID	: 2AMH2-BMBH293B
BRAND NAME: MPOWMODEL NAME: BMBH293ACLIENT: MPOW TECHNOLOGY CO., LIMITEDDATE OF ISSUE: Jul 11, 2018STANDARD(S) TEST PROCEDURE(S): FCC Part 15 Subpart C Section 15.249	APPLICATION PURPOSE	: Original Equipment
MODEL NAME: BMBH293ACLIENT: MPOW TECHNOLOGY CO., LIMITEDDATE OF ISSUE: Jul 11, 2018STANDARD(S) TEST PROCEDURE(S): FCC Part 15 Subpart C Section 15.249	PRODUCT DESIGNATION	: Bluetooth headset with microphone
CLIENT:MPOW TECHNOLOGY CO., LIMITEDDATE OF ISSUE:Jul 11, 2018STANDARD(S) TEST PROCEDURE(S):FCC Part 15 Subpart C Section 15.249	BRAND NAME	: MPOW
DATE OF ISSUE: Jul. 11, 2018STANDARD(S) TEST PROCEDURE(S): FCC Part 15 Subpart C Section 15.249	MODEL NAME	: BMBH293A
STANDARD(S) TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249	CLIENT	: MPOW TECHNOLOGY CO., LIMITED
TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249	DATE OF ISSUE	: Jul. 11, 2018
REPORT VERSION : V1.0		: FCC Part 15 Subpart C Section 15.249
	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	and I and	Jul. 11, 2018	Valid	Initial release

Report Revise Record





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1. VERIFICATION OF CONFORMITY

Applicant	MPOW TECHNOLOGY CO., LIMITED		
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA		
Manufacturer	MPOW TECHNOLOGY CO., LIMITED		
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA		
Product Designation	Bluetooth headset with microphone		
Brand Name	MPOW		
Test Model	BMBH293A		
Date of test	Jul. 02, 2018 to Jul. 09, 2018		
Deviation	None		
Condition of Test Sample	Normal GC GC		
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

Harry Zhang

Henry Zhang(Zhang Zhuorui) Jul. 09, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jul. 11, 2018

west in

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jul. 11, 2018

The results show the first est report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc.gatt.com.

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Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.1
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V02A
Software Version	V1.0
Antenna Designation	Ceramic Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery

A major technical description of EUT is described as following

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
GC I	0	2402MHz
	Hand I Hand Comment	2403MHz
The town Compares	A comparison of Contraction of Co	
- C	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
THE THE	40	2442 MHz
The state of the s		
	77	2479 MHz
	78	2480 MHz



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, $Uc = \pm 3.2 \text{ dB}$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

		F	K Come	a lobal	Attest
NO.	TEST MODE DESCRIPTION				
C The last Contract C	The sector of Color	Low channe	el GFSK		
2	No.	Middle chann	nel GFSK	TF.	Compliance
3		High channe	el GFSK	C Thestation of Glo	~ G ^O
4	C The salar of Global Control Control	Low channel π	/4-DQPSK	0	
9 5 5 m d 600	60 00	Middle channel 1	π /4-DQPSK	151 mars	The Hand
6 6		High channel π	·/4-DQPSK	Global Contr	Franci Global
7	L Balance & Francisco	Low channel	I 8DPSK	100	100 A
8	CC there	Middle channe	el 8DPSK		-5111
90		High channe	I 8DPSK	TA	Compliance
10	The second se	BT Lir	nk	C Atlestation of C	A.C.

4. DESCRIPTION OF TEST MODES

Note:

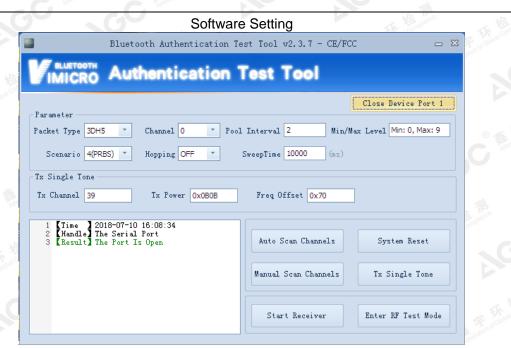
1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

- 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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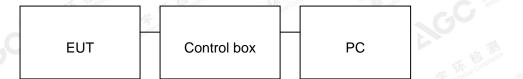
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5. SYSTEM TEST CONFIGURATION **5.1. CONFIGURATION OF EUT SYSTEM**

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
	Bluetooth headset with microphone	MPOW	BMBH293A	GEUT
2	Battery	PATL C	501220	Accessory
3	PC PC	APPLE	A1465	A.E
4	Control box	SERIAL	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	IPOD	APPLE	A1364	A.E





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5.3. SUMMARY OF TEST RESULTS

J.	FCC RULES	DESCRIPTION OF TEST	RESULT
× 6	§15.249(a) §15.209	Radiated Emission	Compliant
	§15.249(d)	Band Edges	Compliant
G	§15.207	Conduction Emission	N/A
	§15.215	Bandwidth	Compliant

Note: N/A means it's not applicable to this item.





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 RADIATED EMISSION TEST

			and a salle		010
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
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	МХТ	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019



9. RADIATED EMISSION

9.1TEST 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 Str	engths 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)	
1.705 ~ 30	30	30	E E Constant
30 ~ 88	3 States	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	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.

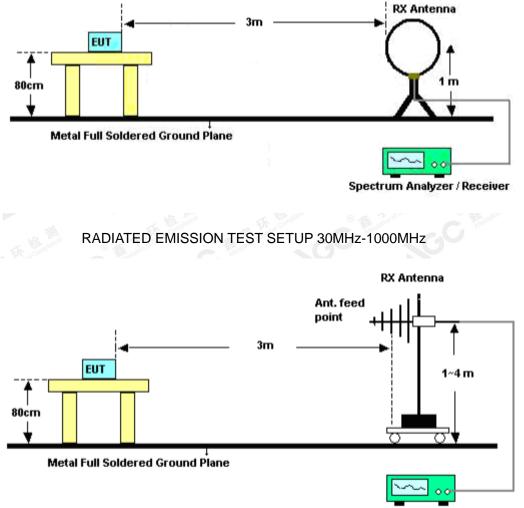




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9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz

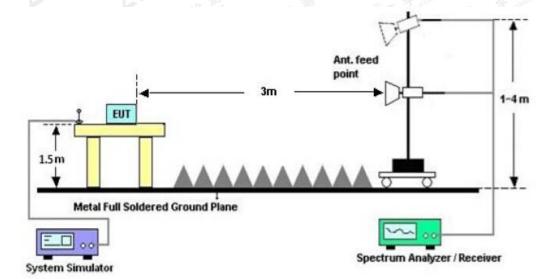


Spectrum Analyzer / Receiver





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RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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9.4. TEST RESULT

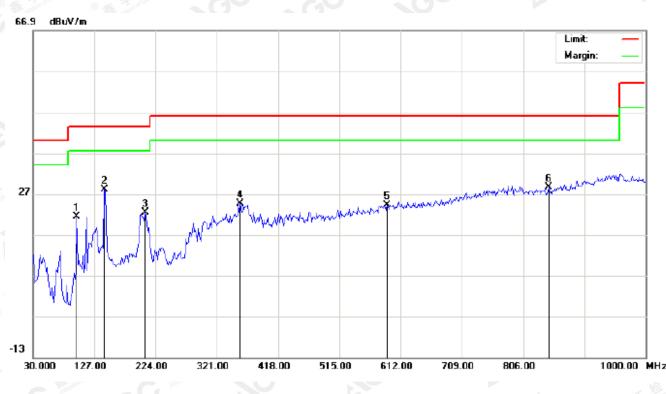
FOR BR/EDR

(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

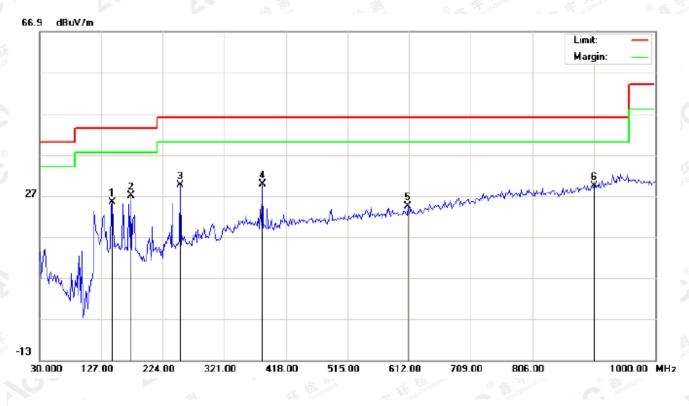


	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
ŝ	1		99.5167	11.36	10.00	21.36	43.50	-22.14	peak			
8	2	*	143.1667	13.59	14.43	28.02	43.50	-15.48	peak			
	3		207.8333	11.13	11.20	22.33	43.50	-21.17	peak			
	4		358.1833	5.84	18.79	24.63	46.00	-21.37	peak			
	5		590.9833	0.79	23.50	24.29	46.00	-21.71	peak			
	6		846.4167	1.36	27.31	28.67	46.00	-17.33	peak			

RESULT: PASS

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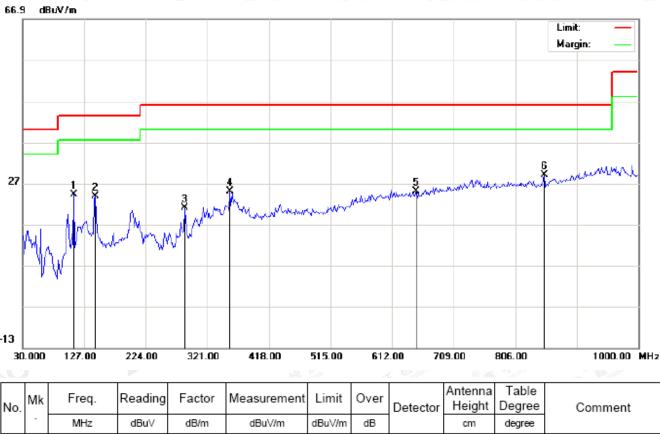
RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

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		144.7833	10.18	15.23	25.41	43.50	-18.09	peak			
2		173.8833	12.50	14.46	26.96	43.50	-16.54	peak			
3		251.4833	15.63	13.94	29.57	46.00	-16.43	peak			
4	*	380.8167	10.81	18.94	29.75	46.00	-16.25	peak			
5		610.3832	1.43	22.96	24.39	46.00	-21.61	peak			
6		903.0000	0.69	28.69	29.38	46.00	-16.62	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.



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

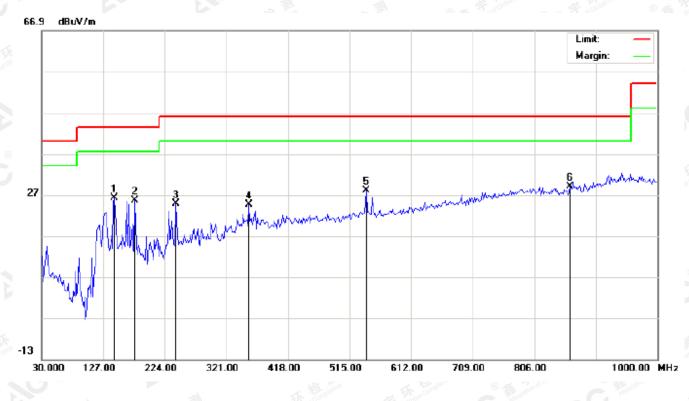
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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		110.8332	16.26	7.98	24.24	43.50	-19.26	peak			
2		144.7831	9.70	14.04	23.74	43.50	-19.76	peak			
3		285.4332	7.98	12.93	20.91	46.00	-25.09	peak			
4		356.5667	6.20	18.78	24.98	46.00	-21.02	peak			
5		650.7999	1.12	23.87	24.99	46.00	-21.01	peak			
6	*	851.2667	1.58	27.34	28.92	46.00	-17.08	peak			

RESULT: PASS

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

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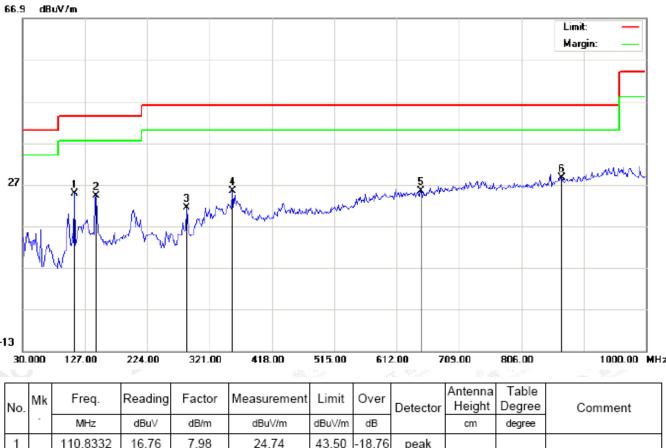
GC

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		144.7833	11.02	15.23	26.25	43.50	-17.25	peak			
2		177.1167	11.44	14.25	25.69	43.50	-17.81	peak			
3		241.7833	11.71	13.09	24.80	46.00	-21.20	peak			
4		356.5667	5.81	18.78	24.59	46.00	-21.41	peak			
5		540.8667	5.71	22.23	27.94	46.00	-18.06	peak			
6	*	862.5833	1.36	27.64	29.00	46.00	-17.00	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.



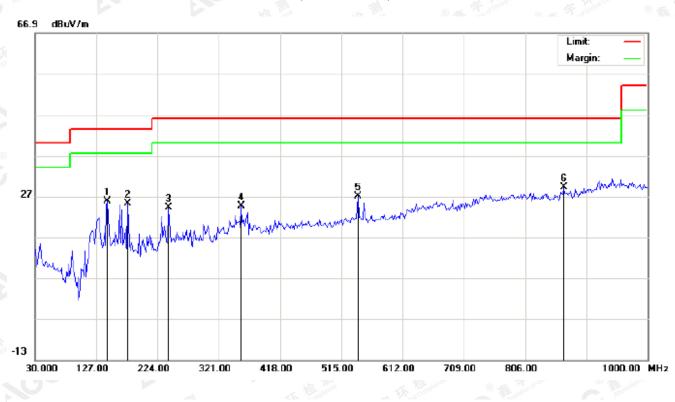
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		110.8332	16.76	7.98	24.74	43.50	-18.76	peak			
2		144.7831	10.20	14.04	24.24	43.50	-19.26	peak			
3		285.4332	8.48	12.93	21.41	46.00	-24.59	peak			
4		356.5667	6.70	18.78	25.48	46.00	-20.52	peak			
5		650.7999	1.62	23.87	25.49	46.00	-20.51	peak			
6	*	869.0499	0.80	27.80	28.60	46.00	-17.40	peak			

RESULT: PASS



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

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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	
1		144.7831	10.52	15.23	25.75	43.50	-17.75	peak			
2		177.1167	10.94	14.25	25.19	43.50	-18.31	peak			
3		241.7832	11.21	13.09	24.30	46.00	-21.70	peak			
4		356.5667	5.81	18.78	24.59	46.00	-21.41	peak			
5		540.8667	4.71	22.23	26.94	46.00	-19.06	peak			
6	*	867.4333	1.37	27.76	29.13	46.00	-16.87	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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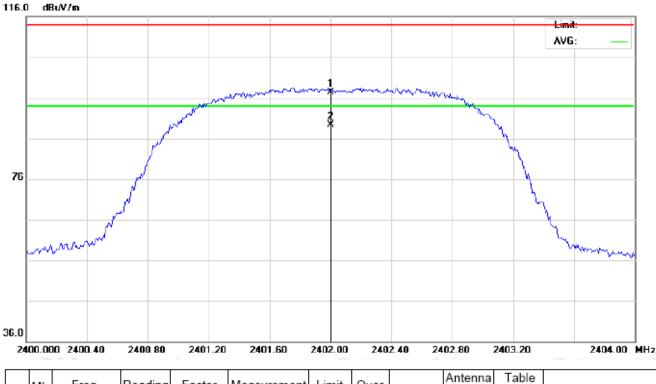
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: GFSK)

For Fundamental

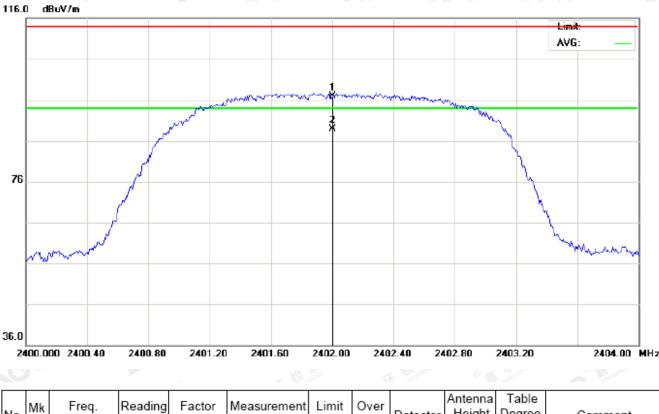
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	87.02	10.32	97.34	114.00	-16.66	peak			
2	*	2402.000	79.04	10.32	89.36	94.00	-4.64	AVG	100	158	

RESULT: PASS





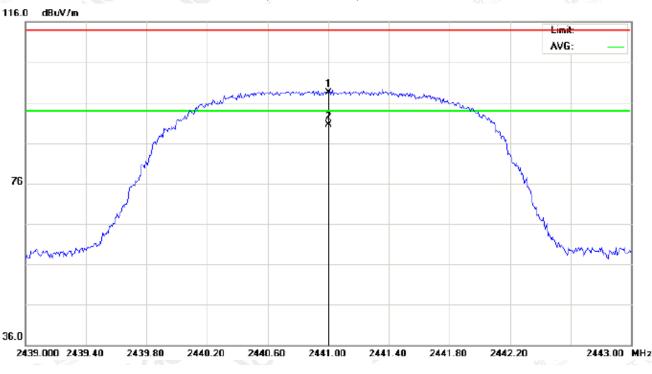
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

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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		
1		2402.000	86.60	10.32	96.92	114.00	-17.08	peak				1
2	*	2402.000	78.55	10.32	88.87	94.00	-5.13	AVG	100	240		3

RESULT: PASS





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

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	88.06	10.36	98.42	114.00	-15.58	peak			
2	*	2441.000	80.14	10.36	90.50	94.00	-3.50	AVG	100	159	

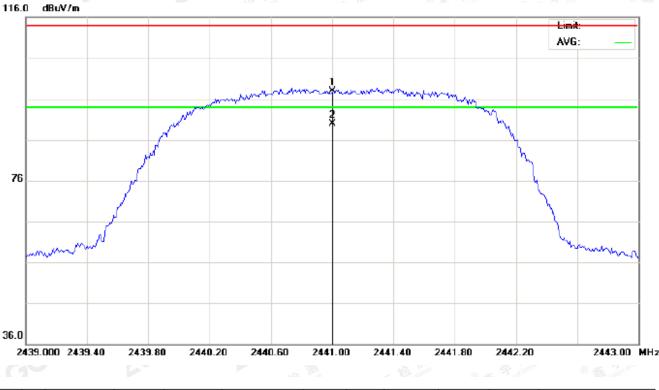
RESULT: PASS

GC

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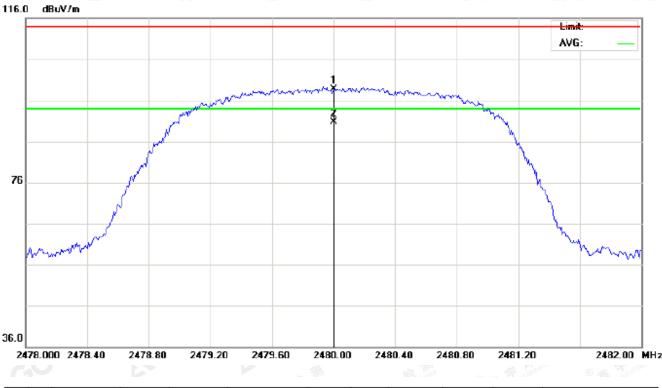
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2441.000	87.57	10.36	97.93	114.00	-16.07	peak			
2	*	2441.000	79.60	10.36	89.96	94.00	-4.04	AVG	100	243	

RESULT: PASS





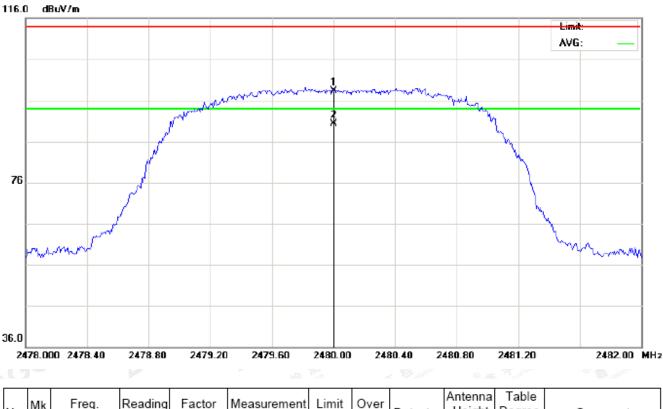
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	88.31	10.41	98.72	114.00	-15.28	peak			
2	*	2480.000	80.38	10.41	90.79	94.00	-3.21	AVG	100	151	

RESULT: PASS





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

N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Γ	1		2480.000	87.89	10.41	98.30	114.00	-15.70	peak			
	2	*	2480.000	79.85	10.41	90.26	94.00	-3.74	AVG	100	247	

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.



Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	87.02	10.32	97.34	114	-16.66	Horizontal	
2402	86.60	10.32	96.92	114	-17.08	Vertical	
2441	88.06	10.36	98.42	114	-15.58	Horizontal	
2441	87.57	10.36	97.93	114	-16.07	Vertical	
2480	88.31	10.41	98.72	114	-15.28	Horizontal	
2480	87.89	10.41	98.30	114	-15.70	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	79.04	10.32	89.36	94	-4.64	Horizontal	
2402	78.55	10.32	88.87	94	-5.13	Vertical	
2441	80.14	10.36	90.50	94	-3.50	Horizontal	
2441	79.60	10.36	89.96	94	-4.04	Vertical	
2480	80.38	10.41	90.79	94	-3.21	Horizontal	
2480	79.85	10.41	90.26	94	-3.74	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	86.57	10.32	96.89	114	-17.11	Horizontal
2402	86.11	10.32	96.43	114	-17.57	Vertical
2441	87.63	10.36	97.99	114	-16.01	Horizontal
2441	87.14	10.36	97.50	114 🔬	-16.50	Vertical
2480	87.84	10.41	98.25	114	-15.75	Horizontal
2480	87.45	10.41	97.86	114	-16.14	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.57	10.32	88.89	94	-5.11	Horizontal
2402	78.10	10.32	88.42	94 💿	-5.58	Vertical
2441	79.65	10.36	90.01	94	-3.99	Horizontal
2441	79.14	10.36	89.50	94	-4.50	Vertical
2480	79.96	10.41	90.37	94	-3.63	Horizontal
2480	79.36	10.41	89.77	94	-4.23	Vertical



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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	86.14	10.32	96.46	114	-17.54	Horizontal	
2402	85.69	10.32	96.01	114	-17.99	Vertical	
2441	87.22	10.36	97.58	114	-16.42	Horizontal	
2441	86.73	10.36	97.09	114 🔬	-16.91	Vertical	
2480	87.38	10.41	97.79	114	-16.21	Horizontal	
2480	87.01	10.41	97.42	114	-16.58	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.12	10.32	88.44	94	-5.56	Horizontal
2402	77.69	10.32	88.01	94	-5.99	Vertical
2441	79.22	10.36	89.58	94	-4.42	Horizontal
2441	78.73	10.36	89.09	94	-4.91	Vertical
2480	79.47	10.41	89.88	94	-4.12	Horizontal
2480	78.87	10.41	89.28	94	-4.72	Vertical





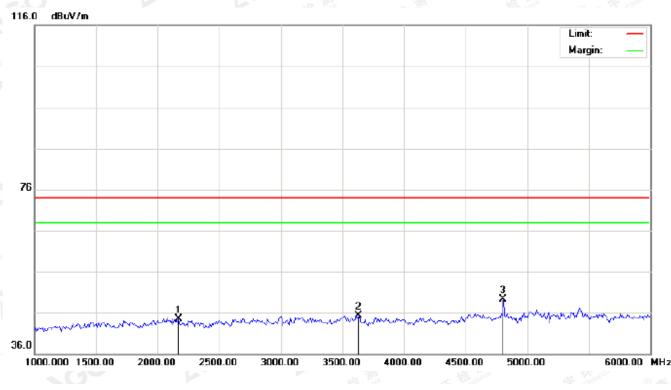
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FOR BR/EDR

(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	dBuV/m	dBuV/m	dB		cm	degree	
1		2166.667	34.53	10.06	44.59	74.00	-29.41	peak			
2		3633.333	32.44	12.93	45.37	74.00	-28.63	peak			
3	*	4804.000	41.71	7.69	49.40	74.00	-24.60	peak			

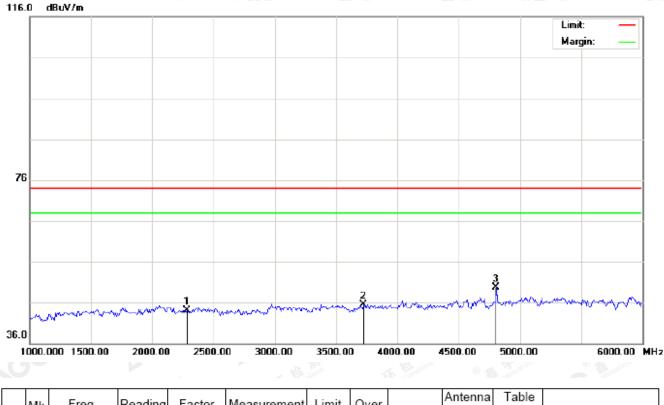
RESULT: PASS

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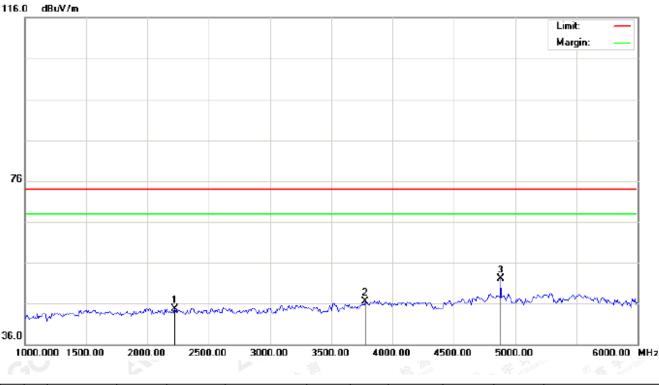


RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

N	o.	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			2283.333	33.91	10.19	44.10	74.00	-29.90	peak			
2	2		3725.000	31.95	13.50	45.45	74.00	-28.55	peak			
2	}	*	4804.000	42.05	7.69	49.74	74.00	-24.26	peak			

RESULT: PASS

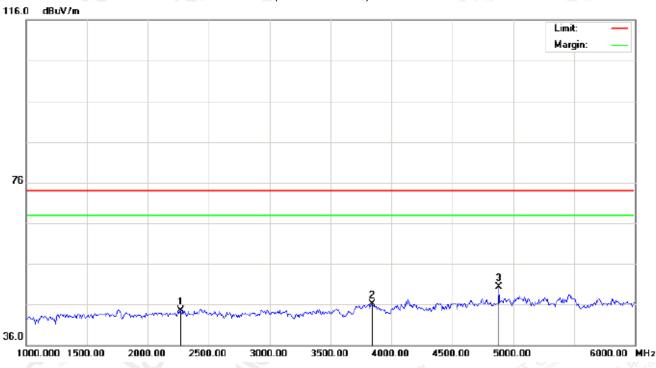




RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

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		2225.000	34.49	10.13	44.62	74.00	-29.38	peak			
2		3775.000	32.65	13.80	46.45	74.00	-27.55	peak			
3	*	4882.000	44.16	7.89	52.05	74.00	-21.95	peak			

RESULT: PASS



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

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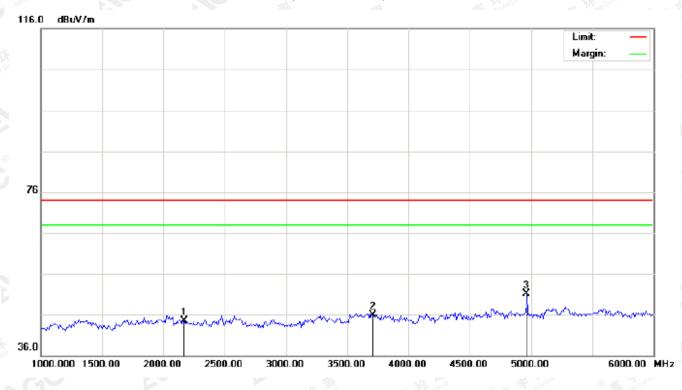
测

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		2266.667	34.33	10.17	44.50	74.00	-29.50	peak			
2		3841.667	31.86	14.21	46.07	74.00	-27.93	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

RESULT: PASS



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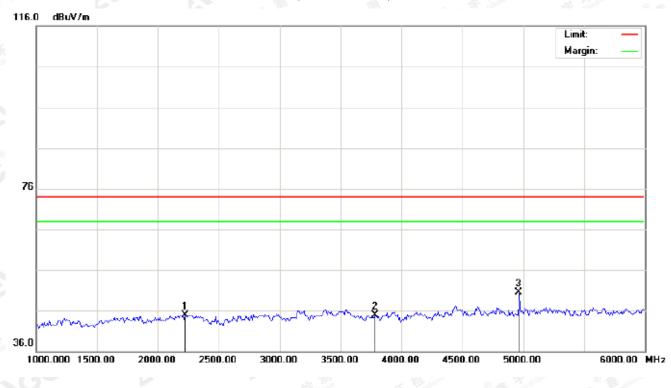


RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

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		2166.667	34.51	10.06	44.57	74.00	-29.43	peak			
2		3708.333	32.59	13.39	45.98	74.00	-28.02	peak			
3	*	4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

RESULT: PASS





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

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		2225.000	34.79	10.13	44.92	74.00	-29.08	peak			
2		3783.333	31.13	13.86	44.99	74.00	-29.01	peak			
3	*	4960.000	42.41	8.09	50.50	74.00	-23.50	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

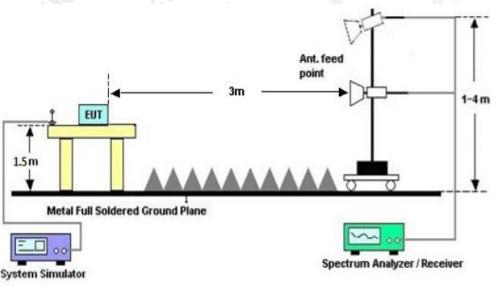
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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.

St	art frequency(Mł	Hz)	Stop frequency(MHz)				
The state	2200	The state	nce E Frankation c	2405	200		
B Thestation of Clobe	2478	C Attestation of Color	GO	2500			
Alle	C Alles				(0);		

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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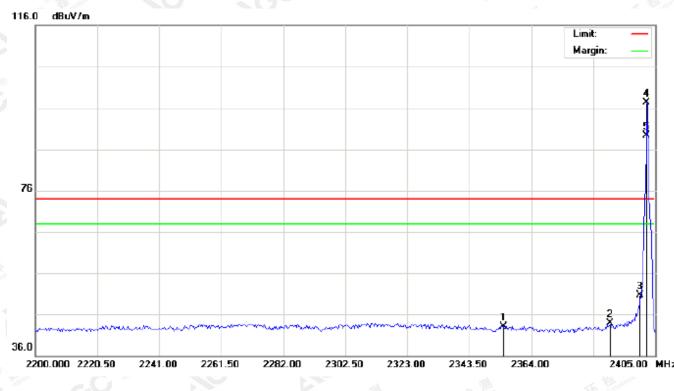


10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

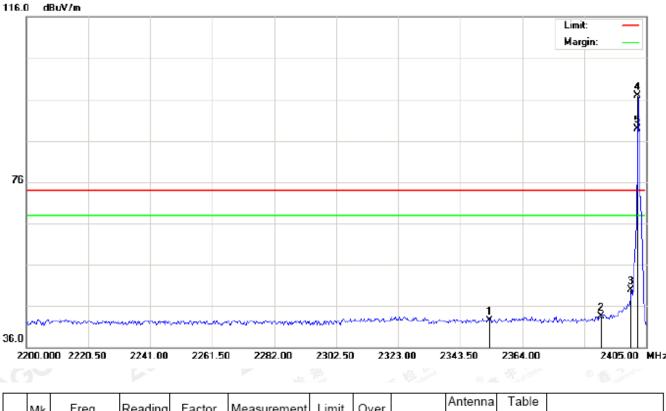


No	No. Mł	1k	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	- [MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1			2354.775	32.80	10.27	43.07	74.00	-30.93	peak			
2			2390.000	33.50	10.31	43.81	74.00	-30.19	peak			
3			2400.000	40.47	10.32	50.79	74.00	-23.21	peak			
4	*	*	2402.000	86.97	10.32	97.29	74.00	23.29	peak			
5	Х	X	2402.000	78.99	10.32	89.31	74.00	15.31	AVG	100	155	

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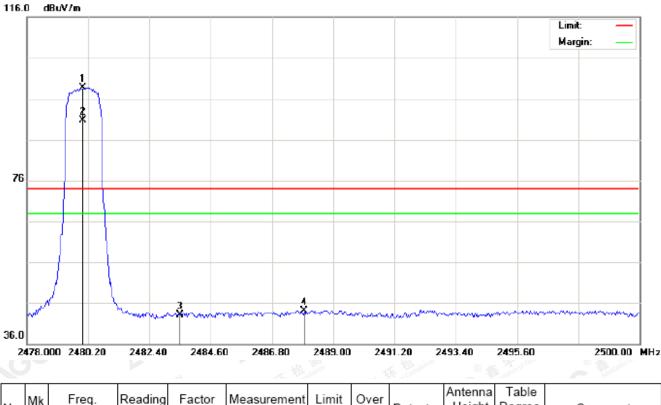
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2353.067	32.22	10.27	42.49	74.00	-31.51	peak			
2		2390.000	33.21	10.31	43.52	74.00	-30.48	peak			
3		2400.000	39.56	10.32	49.88	74.00	-24.12	peak			
4	*	2402.000	86.54	10.32	96.86	74.00	22.86	peak			
5	Х	2402.000	78.50	10.32	88.82	74.00	14.82	AVG	100	243	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

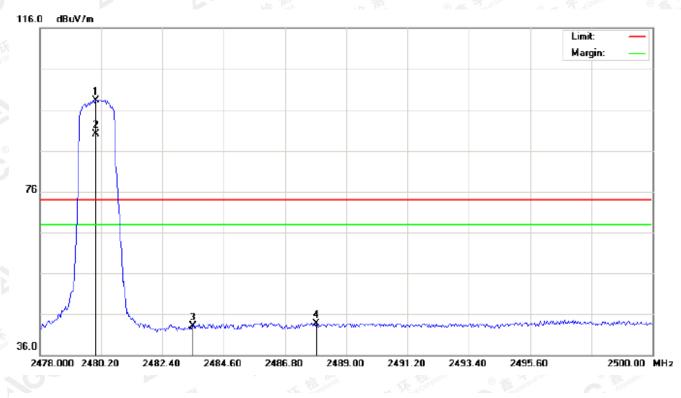
No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	88.27	10.41	98.68	74.00	24.68	peak			
2	Х	2480.000	80.31	10.41	90.72	74.00	16.72	AVG	100	152	
3		2483.500	32.69	10.41	43.10	74.00	-30.90	peak			
4		2487.973	33.63	10.42	44.05	74.00	-29.95	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	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.84	10.41	98.25	74.00	24.25	peak			
2	Х	2480.000	79.79	10.41	90.20	74.00	16.20	AVG	100	241	
3		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
4		2487.937	33.37	10.42	43.79	74.00	-30.21	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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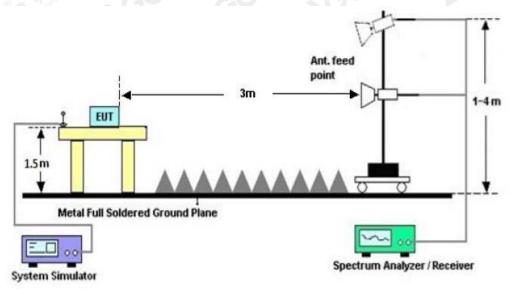
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11. 20DB BANDWIDTH

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

FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
		Measurement Result						
Applicable Limits		Decult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
A Conduct O Amandano	Low Channel	0.965	1.088	PASS				
N/A	Middle Channel	0.951	1.088	PASS				
	High Channel	0.983	1.104	PASS				

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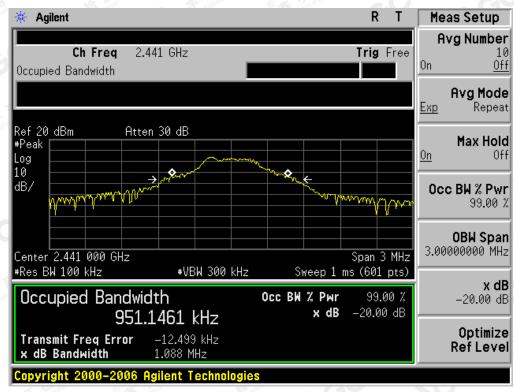
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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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 scontinues The compares	Low Channel	1.156	1.347	PASS			
N/A	Middle Channel	1.200	1.345	PASS			
SCC "	High Channel	1.180	1.333	PASS			

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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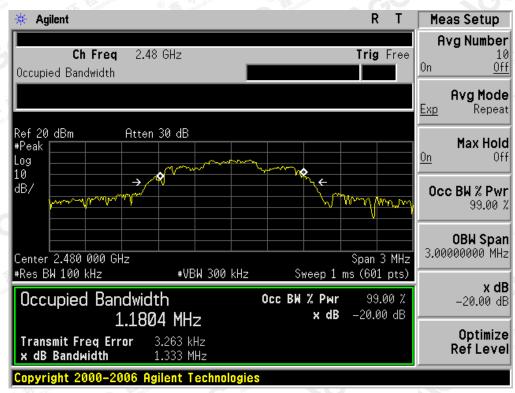


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

鑫 宇 环 检 测 Attestation of Global Compliance

C)

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		Desult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The accompanies The Companies	Low Channel	1.178	1.342	PASS				
N/A	Middle Channel	1.185	1.351	PASS				
SCO "	High Channel	1.199	1.343	PASS				

环

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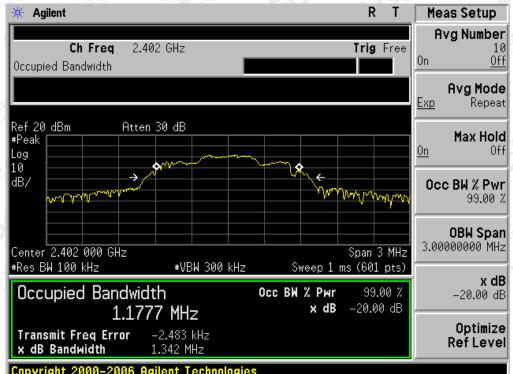
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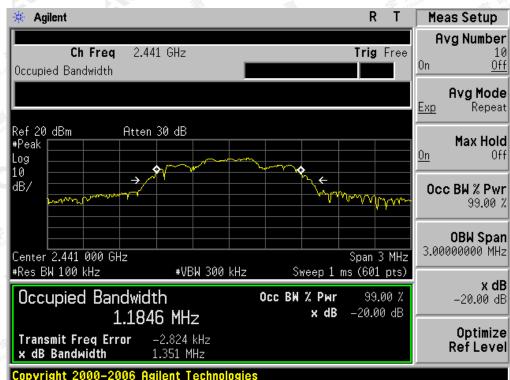
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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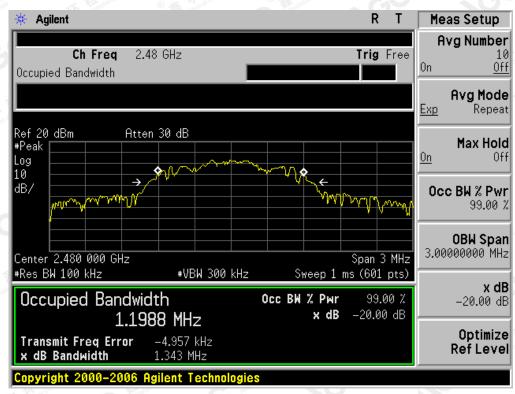


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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C)

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

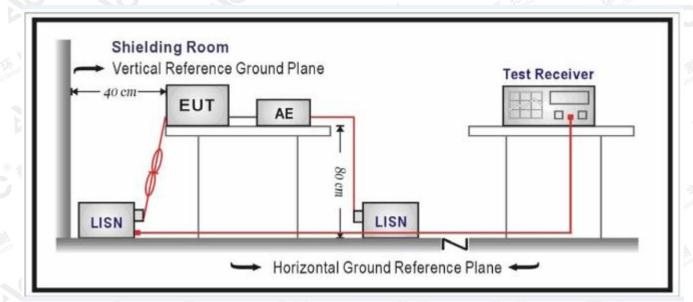
Fromuenou	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	56	46					
5MHz~30MHz	60	50					

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.
- 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.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT didn't work when charging.

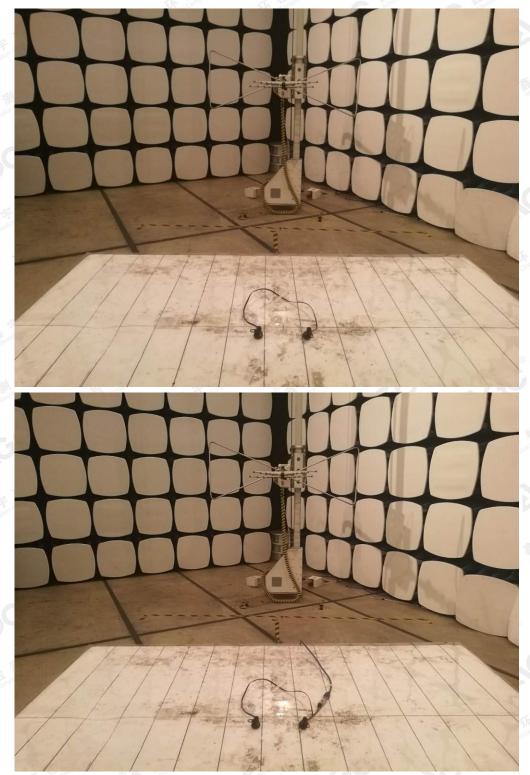
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP

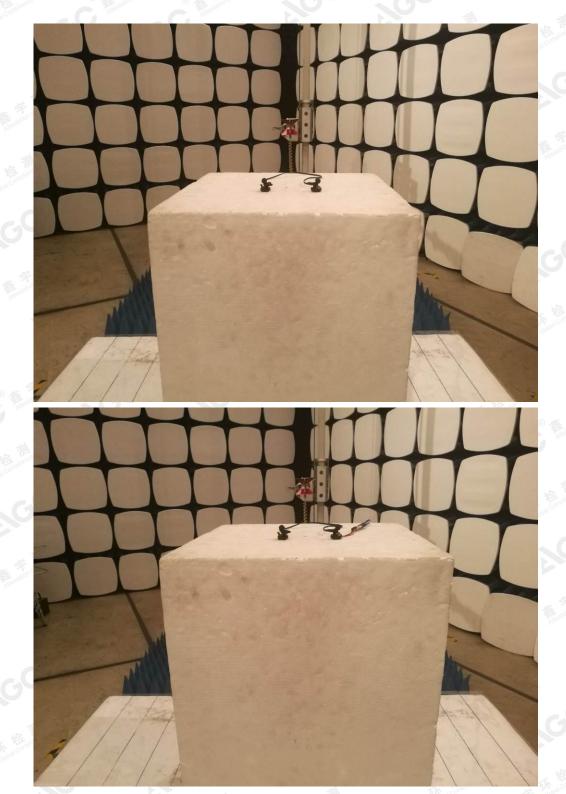


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APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT

BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT

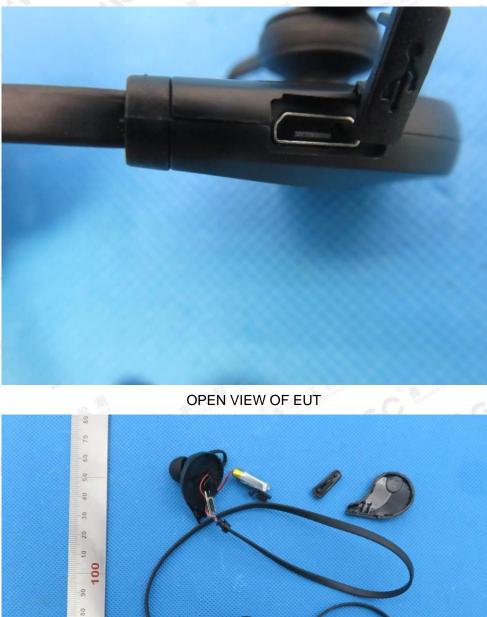


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VIEW OF EUT (PORT)



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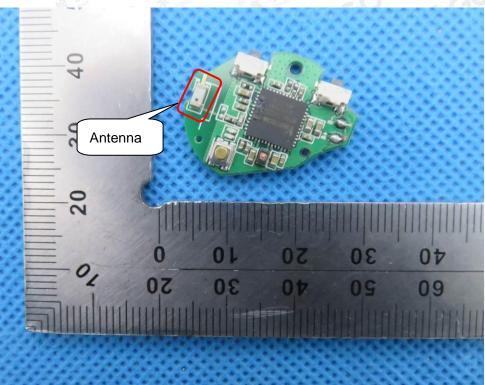


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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



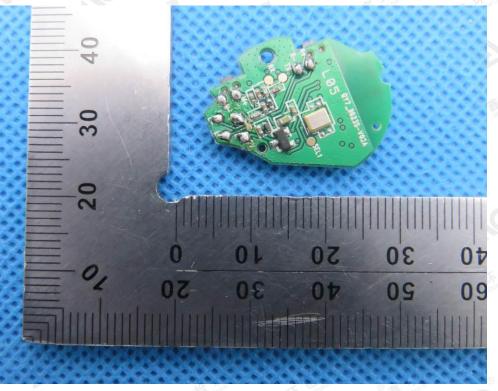
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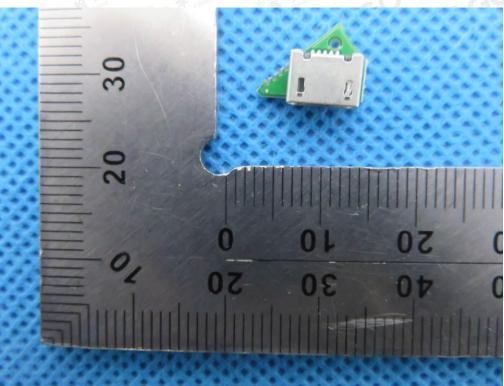


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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



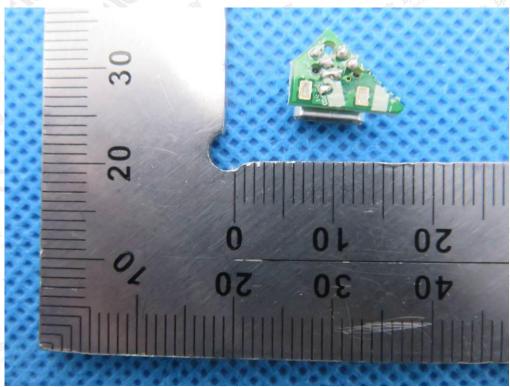
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INTERNAL VIEW OF EUT-4



INTERNAL VIEW OF EUT-5



----END OF REPORT----

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