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# FCC Test Report

## Report No.: AGC01547180302FE03

FCC ID	Ċ	2A09BBC-WP
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	F. Globe	Bluetooth speaker cooler bag
BRAND NAME	-	N/A
MODEL NAME	•	BS-1-WP
CLIENT		ANHUI WELLPROMOTION IMPORT AND EXPORT CO., LTD.
DATE OF ISSUE	-710-	Jun. 04, 2018
STANDARD(S) TEST PROCEDURE(S)	pliance :	FCC Part 15 Subpart C Section 15.249
<b>REPORT VERSION</b>		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. 04, 2018	Valid	Initial release		

#### **Report Revise Record**

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Applicant	ANHUI WELLPROMOTION IMPORT AND EXPORT CO., LTD.
Address	3rd Floor Joyin Tech, No.19-6 Tianhu Road, Hefei, Anhui, China, 230088
Manufacturer	ANHUI WELLPROMOTION IMPORT AND EXPORT CO., LTD.
Address	3rd Floor Joyin Tech, No.19-6 Tianhu Road, Hefei, Anhui, China, 230088
Product Designation	Bluetooth speaker cooler bag
Brand Name	N/A
Test Model	BS-1-WP
Date of test	May 23, 2018 to Jun. 03, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

#### **1. VERIFICATION OF CONFORMITY**

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

Hame Zhang

Henry Zhang(Zhang Zhuorui) Jun. 03, 2018

we chang

**Reviewed By** 

Cool Cheng(Cheng Mengguo)

Jun. 04, 2018

west in

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 04, 2018

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#### 2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following	cribed as following	described	Γis	of EUT	ription	descri	technical	A major
--	---------------------	-----------	-----	--------	---------	--------	-----------	---------

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
RF Output Power	-0.41dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	-0.58dBi
Power Supply	DC 3.7V by battery
Note: The USB port only	used 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
NGU	0	2402MHz
		2403MHz
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
	77	2479 MHz
The the same	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,  $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

NO.	TEST MODE DESCRIPTION
C Frank In of Goods	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
S 5 or of Cloud	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	BT Link with charging
E E Anna Com 8 0 5	BT Link

#### 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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				Software	-				
r F	CCAssist 1.5								
	Parameter								
	MODE	TX 💌							
	HODE								
	Channel	78 💌	Packet	type 2-D	13 💌	Data Types	Pn9	*	
	Transmit Power	10 💌	Нор	ping OFF	~	Serial Port	COM3	<b>∽</b> 🖗	
	2018-05-28_13:56	:03				Г	Send configu	uration	
op	en COM3 succeed 2018-05-28_13:56	:03							
	nannel: 78 D ransmit Power : 10	ata Types: Pn9 Packet type: 2	-DH3						
	and configuration info			Description					
				D CDCrip Clor					
						78, correspondin	a frequency 2	2.402GHz-2.4	80GHZ
				1、Chann	el: range 0-	78, correspondin ange 0-10, 0 is t			
				1、Chann	el: range 0-	78, correspondin ange 0-10, 0 is t			
				1、Chann	el: range 0-				
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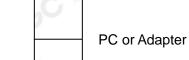
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#### 5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

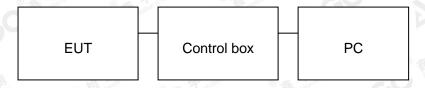
Configure 1: (Normal hopping)

EUT



Note: Owing to the EUT has own battery, 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
The state	Bluetooth speaker cooler bag	ANHUI WELLPROMOTION IMPORT AND EXPORT CO., LTD.	BS-1-WP	EUT
2	Battery	HSM	503048	Accessory
3	PC 9	APPLE	A1465	A.E
4	Control box	GZUT	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	0.8m unshielded	Accessory
7	USB Cable	N/A	1m unshielded	A.E
8	AUX in Cable	N/A	1m unshielded	Accessory
9	IPOD	APPLE	A1367	A.E
10	Speaker	ANHUI WELLPROMOTION IMPORT AND EXPORT CO., LTD.	0.8m unshielded	Accessory

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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
Loop Antenna	A.H.Systems,Inc	SAS-562B	<b>.</b> .	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	МХТ	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	МХТ	RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018

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#### 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 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)						
0.490 ~ 1.705	30	24000/F(kHz)						
1.705 ~ 30	30	30	E England Con Call					
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 $\mu$  V = 20 log Emission level  $\mu$  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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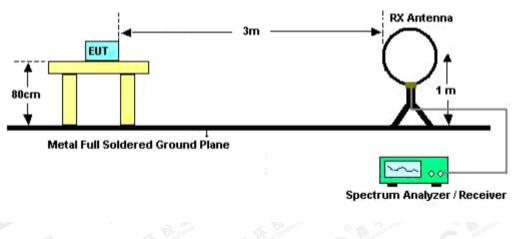




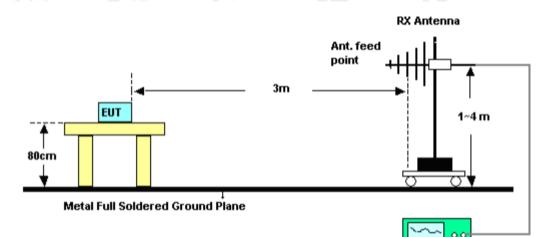
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#### 9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



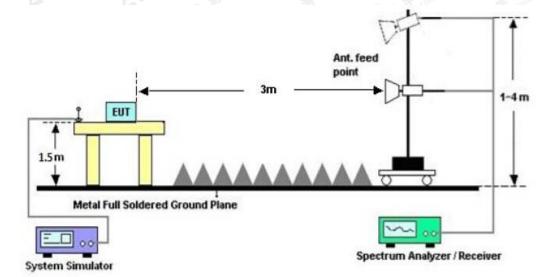
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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#### 9.4. TEST RESULT

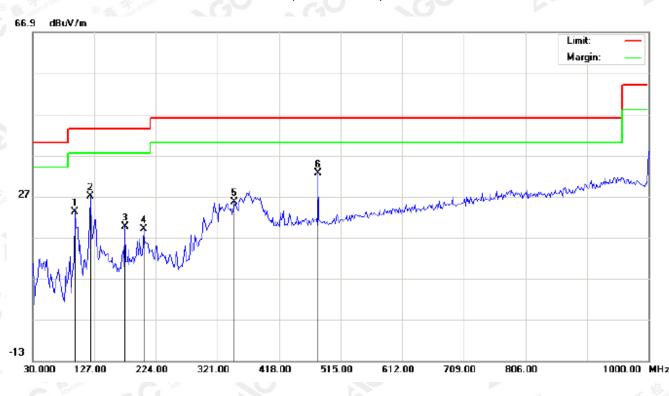
#### FOR BR/EDR

(Worst modulation: π /4-DQPSK)

#### **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

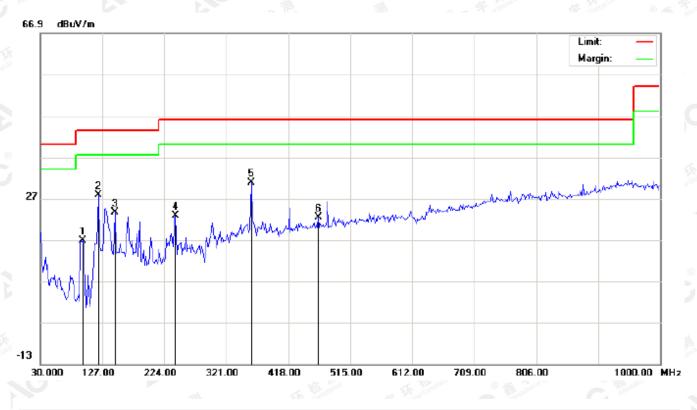


N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		96.2833	16.52	6.77	23.29	43.50	-20.21	peak			
	2		120.5333	20.98	6.11	27.09	43.50	-16.41	peak			
	3		175.5000	8.78	10.90	19.68	43.50	-23.82	peak			
4	4		204.6000	7.46	11.53	18.99	43.50	-24.51	peak			
Į	5		346.8667	7.03	18.53	25.56	46.00	-20.44	peak			
(	6	*	479.4333	11.68	20.91	32.59	46.00	-13.41	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		Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		96.2833	16.84	0.05	16.89	43.50	-26.61	peak			
2		120.5333	20.78	7.08	27.86	43.50	-15.64	peak			
3		146.4000	8.35	15.24	23.59	43.50	-19.91	peak			
4		241.7833	9.73	13.09	22.82	46.00	-23.18	peak			
5	*	359.8000	11.95	18.80	30.75	46.00	-15.25	peak			
6		464.8833	1.64	20.75	22.39	46.00	-23.61	peak			

#### **RESULT: PASS**

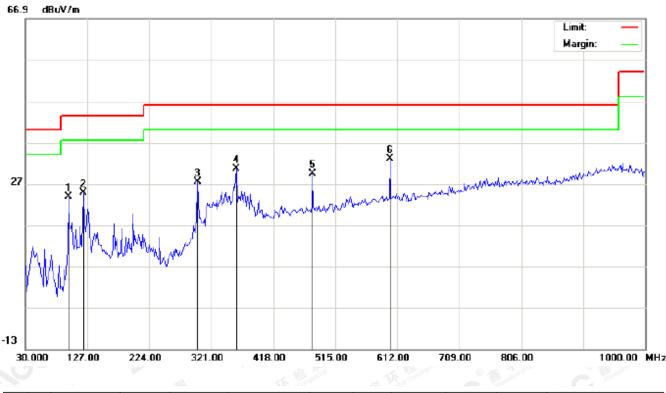
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

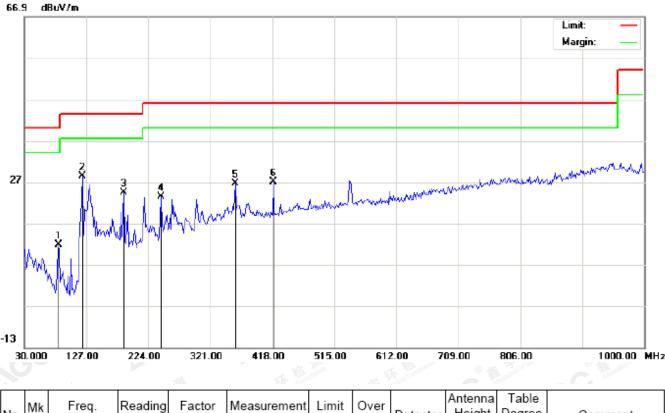
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		97.9000	15.49	8.38	23.87	43.50	-19.63	peak			
2		120.5333	18.74	6.11	24.85	43.50	-18.65	peak			
3		299.9833	11.96	15.41	27.37	46.00	-18.63	peak			
4		359.8000	11.86	18.80	30.66	46.00	-15.34	peak			
5		479.4333	8.50	20.91	29.41	46.00	-16.59	peak			
6	*	600.6833	9.24	23.73	32.97	46.00	-13.03	peak			

**RESULT: PASS** 

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RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE 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		83.3500	8.76	3.00	11.76	40.00	-28.24	peak			
2	*	120.5333	21.23	7.08	28.31	43.50	-15.19	peak			
3		185.2000	11.62	12.75	24.37	43.50	-19.13	peak			
4		243.4000	10.09	13.25	23.34	46.00	-22.66	peak			
5		359.8000	7.79	18.80	26.59	46.00	-19.41	peak			
6		419.6167	7.34	19.67	27.01	46.00	-18.99	peak			

#### **RESULT: PASS**

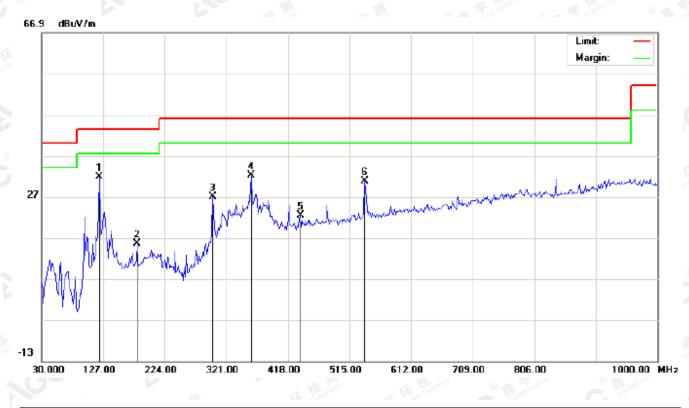
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

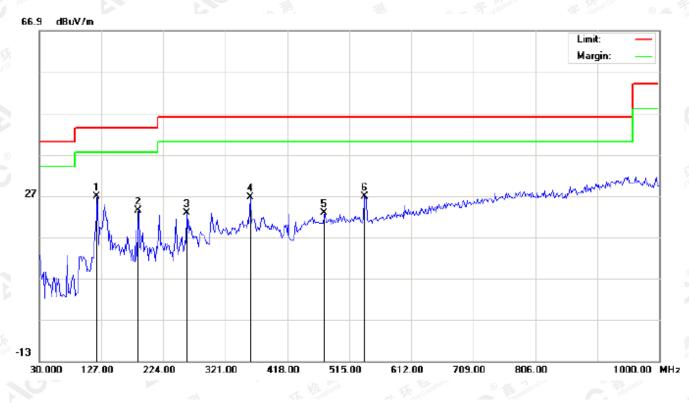
N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
	1	*	120.5333	25.60	6.11	31.71	43.50	-11.79	peak			
	2		180.3500	4.53	11.09	15.62	43.50	-27.88	peak			
	3		299.9833	11.58	15.41	26.99	46.00	-19.01	peak			
	4		359.8000	13.40	18.80	32.20	46.00	-13.80	peak			
	5		437.4000	2.17	20.21	22.38	46.00	-23.62	peak			
	6		539.2500	8.69	22.19	30.88	46.00	-15.12	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
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	120.5331	19.73	7.08	26.81	43.50	-16.69	peak			
2		185.1999	10.62	12.75	23.37	43.50	-20.13	peak			
3		261.1831	8.56	14.24	22.80	46.00	-23.20	peak			
4		359.8000	7.79	18.80	26.59	46.00	-19.41	peak			
5		476.1999	1.95	20.87	22.82	46.00	-23.18	peak			
6		539.2500	4.52	22.19	26.71	46.00	-19.29	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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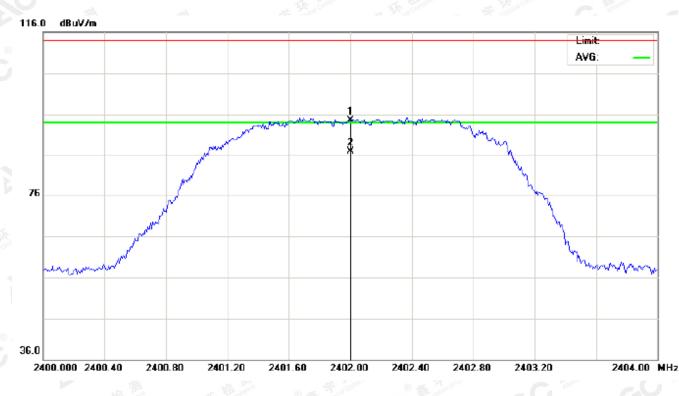
#### **RADIATED EMISSION ABOVE 1GHz**

FOR BR/EDR

#### (Worst modulation: π /4-DQPSK)

#### For Fundamental

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



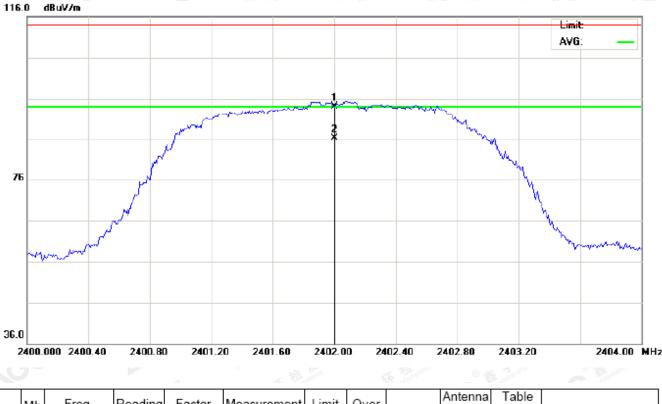
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	84.27	10.32	94.59	114.00	-19.41	peak			
2	*	2402.000	76.33	10.32	86.65	94.00	-7.35	AVG	100	9	

#### **RESULT: PASS**

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

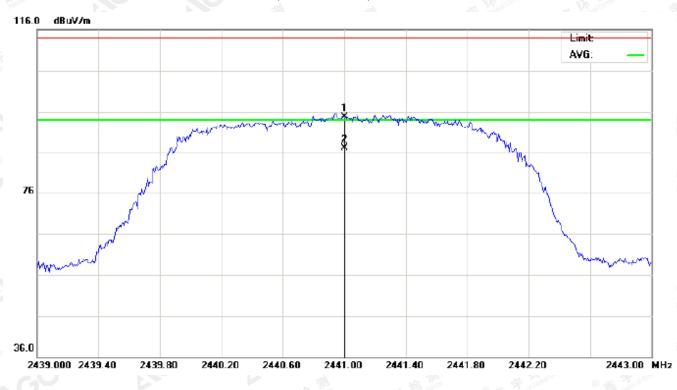
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	83.87	10.32	94.19	114.00	-19.81	peak			
2	*	2402.000	75.81	10.32	86.13	94.00	-7.87	AVG	100	34	

**RESULT: PASS** 

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	84.43	10.36	94.79	114.00	-19.21	peak			
2	*	2441.000	76.50	10.36	86.86	94.00	-7.14	AVG	100	14	

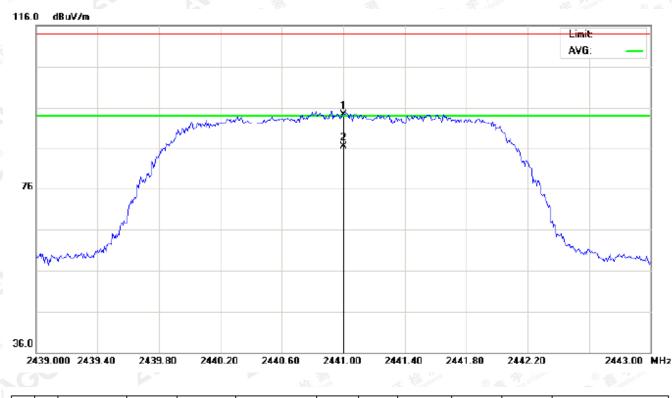
**RESULT: PASS** 

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

Antenna Table Freq. Reading Factor Measurement Limit Over Mk Degree Height No. Detector Comment MHz dBuV dB/m dBuV/m dBuV/m dB degree cm 2441.000 84.03 10.36 94.39 114.00 -19.61 peak 1 2441.000 10.36 2 76.02 86.38 94.00 -7.62 AVG 100 31

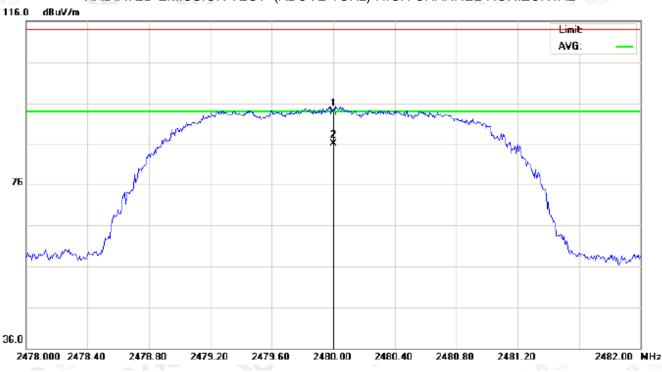
**RESULT: PASS** 

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

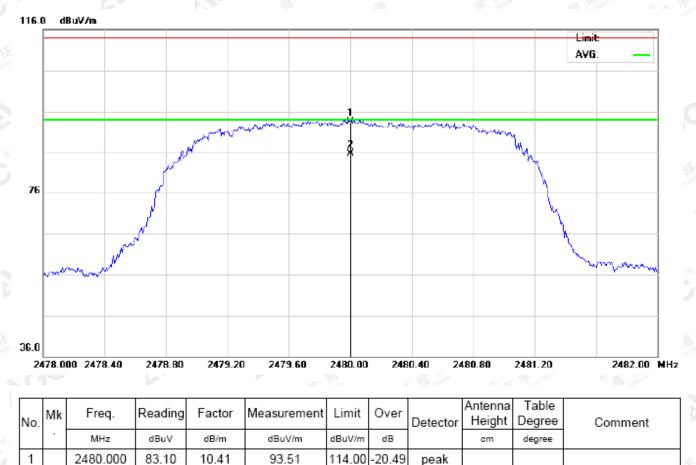
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	83.52	10.41	93.93	114.00	-20.07	peak			
2	*	2480.000	75.56	10.41	85.97	94.00	-8.03	AVG	100		

**RESULT: PASS** 

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

#### **RESULT: PASS**

2480.000

75.09

10.41

2

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

85.50

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

94.00

-8.50

AVG

100

39

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## Actestation of Global Compliance

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Field strength of the fundamental signal

#### 2Mbps Result:

Peak value

			Antenna	
(dBuv/m)	(dBuv/m)	(dB)	Polarization	
94.59	114	-19.41	Horizontal	
94.19	114	-19.81	Vertical	
94.79	114	-19.21	Horizontal	
94.39	114	-19.61	Vertical	
93.93	114	-20.07	Horizontal	
	94.79 94.39	94.7911494.39114	94.79114-19.2194.39114-19.61	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	76.33	10.32	86.65	94	-7.35	Horizontal	
2402	75.81	10.32	86.13	94	-7.87	Vertical	
2441	76.50	10.36	86.86	94	-7.14	Horizontal	
2441	76.02	10.36	86.38	94	-7.62	Vertical	
2480	75.56	10.41	85.97	94	-8.03	Horizontal	
2480	75.09	10.41	85.50	94	-8.50	Vertical	

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#### 1Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	83.89	10.32	94.21	114	-19.79	Horizontal
2402	83.52	10.32	93.84	114	-20.16	Vertical
2441	83.99	10.36	94.35	114	-19.65	Horizontal
2441	83.56	10.36	93.92	114	-20.08	Vertical
2480	83.19	10.41	93.60	114	-20.40	Horizontal
2480	82.65	10.41	93.06	114	-20.94	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.83	10.32	86.15	114	-7.85	Horizontal
2402	75.40	10.32	85.72	114	-8.28	Vertical
2441	76.05	10.36	86.41	114	-7.59	Horizontal
2441	75.53	10.36	85.89	114	-8.11	Vertical
2480	75.23	10.41	85.64	114	-8.36	Horizontal
2480	74.62	10.41	85.03	114	-8.97	Vertical

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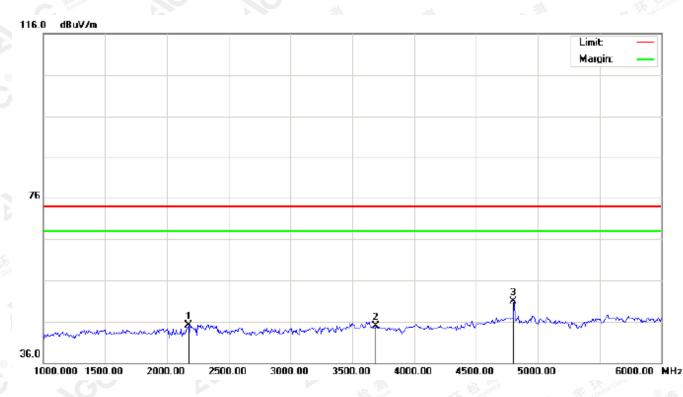
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#### FOR BR/EDR

#### (Worst modulation: π /4-DQPSK)

#### 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	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2175.000	35.00	10.07	45.07	74.00	-28.93	peak			
2		3691.667	31.62	13.29	44.91	74.00	-29.09	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

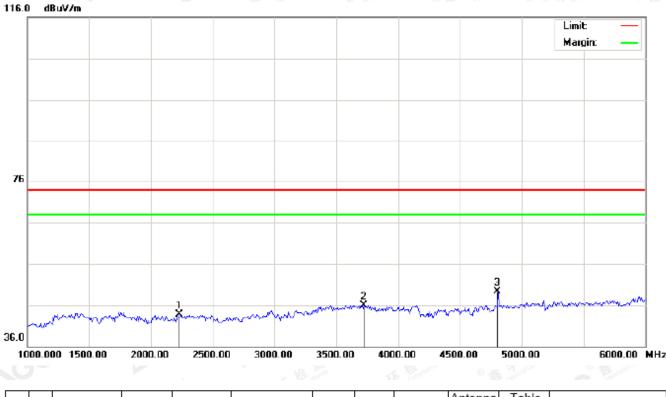
#### **RESULT: PASS**

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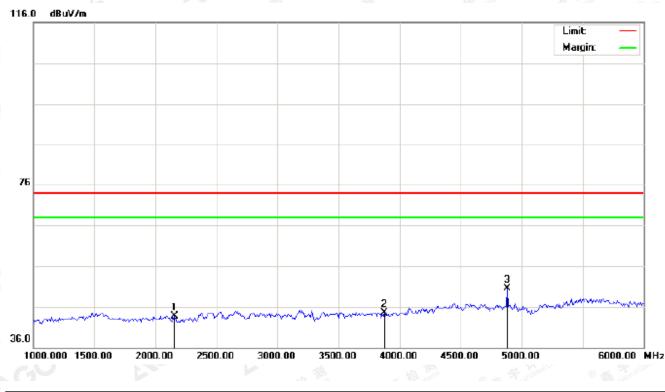
#### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2233.333	33.55	10.14	43.69	74.00	-30.31	peak			
2		3725.000	32.45	13.50	45.95	74.00	-28.05	peak			
3	*	4804.000	41.55	7.69	49.24	74.00	-24.76	peak			

**RESULT: PASS** 

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2158.333	33.58	10.05	43.63	74.00	-30.37	peak			
2		3875.000	30.14	14.42	44.56	74.00	-29.44	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

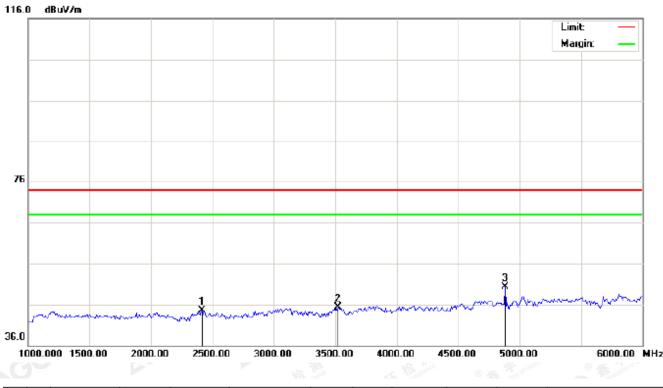
**RESULT: PASS** 

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2416.667	34.12	10.34	44.46	74.00	-29.54	peak			
2		3525.000	32.94	12.26	45.20	74.00	-28.80	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

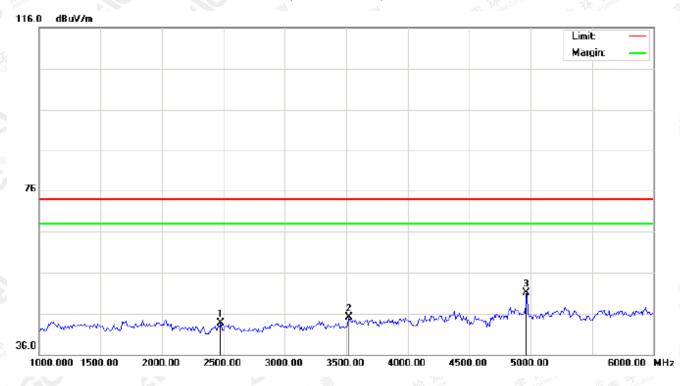
**RESULT: PASS** 

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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	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2475.000	33.23	10.40	43.63	74.00	-30.37	peak			
2		3525.000	32.79	12.26	45.05	74.00	-28.95	peak			
3	*	4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

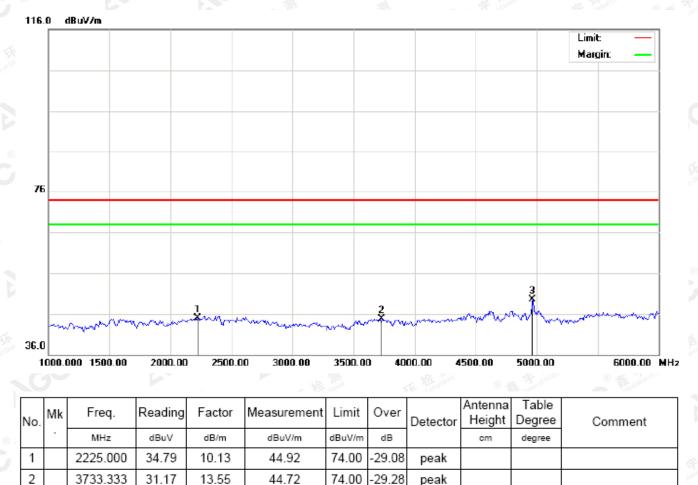
**RESULT: PASS** 

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

#### **RESULT: PASS**

3

4960.000

41.41

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

8.09

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

49.50

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

74.00

-24.50

peak

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# **10. BAND EDGE EMISSION**

### 10.1. MEASUREMENT PROCEDURE

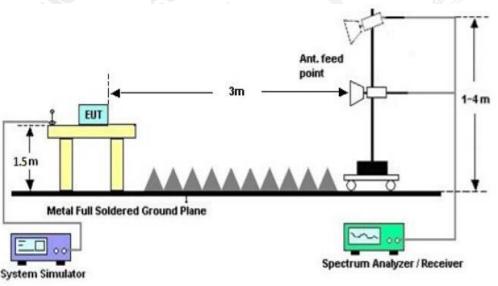
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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	Start frequency(MHz) 2200 2478			Stop frequency(MHz	z)
The second	2200	です。	nce C Frank	2405	SCO
C The station of Global	2478	C Thestallon of Gou	GC "	2500	
	Allest				200

### 10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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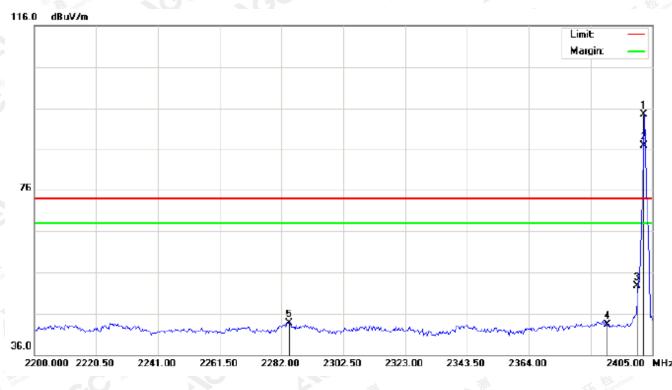
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## **10.3 RADIATED TEST RESULT**

### FOR BR/EDR

# (Worst modulation: π /4-DQPSK)

### TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

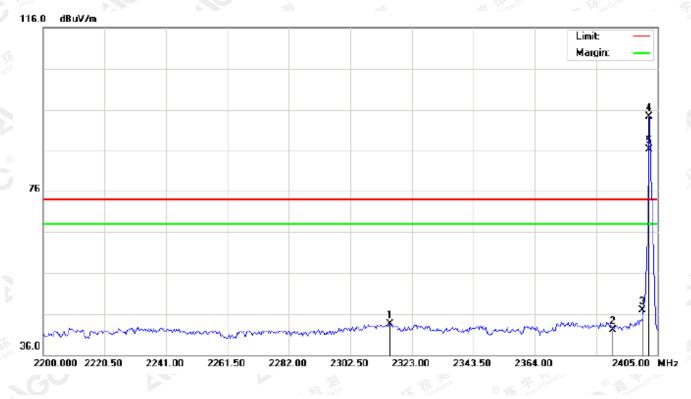


No	, Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	84.22	10.32	94.54	74.00	20.54	peak			
2	Х	2402.000	76.31	10.32	86.63	74.00	12.63	AVG	100	13	
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
5		2284.733	33.61	10.19	43.80	74.00	-30.20	peak			

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### TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

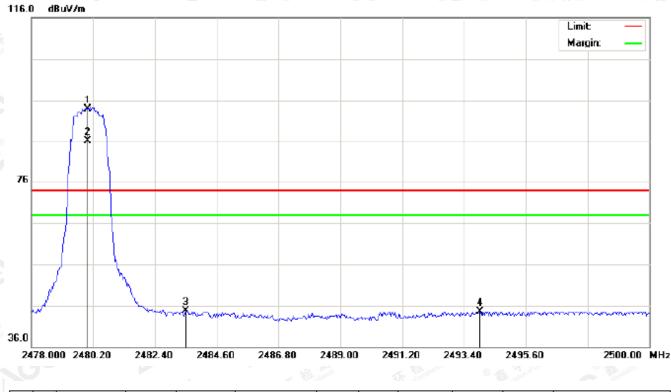
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2315.825	33.25	10.23	43.48	74.00	-30.52	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.56	10.32	46.88	74.00	-27.12	peak			
4	*	2402.000	83.90	10.32	94.22	74.00	20.22	peak			
5	Х	2402.000	75.84	10.32	86.16	74.00	12.16	AVG	100	36	

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### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

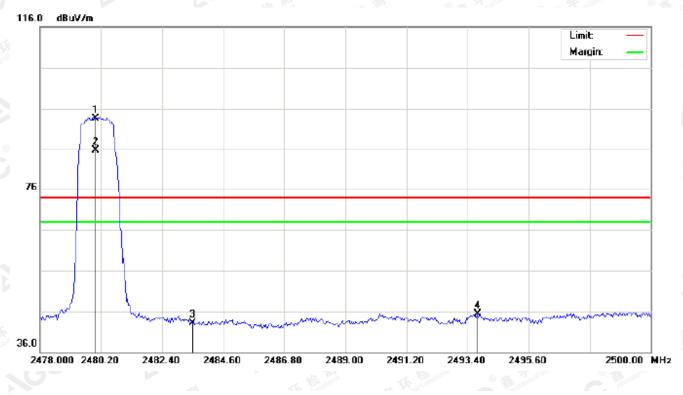
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
1	*	2480.000	83.50	10.41	93.91	74.00	19.91	peak				
2	Х	2480.000	75.53	10.41	85.94	74.00	11.94	AVG	100	11		
3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak				
4		2493.986	34.16	10.42	44.58	74.00	-29.42	peak				

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### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Γ	1	*	2480.000	83.16	10.41	93.57	74.00	19.57	peak			
	2	Х	2480.000	75.11	10.41	85.52	74.00	11.52	AVG	100	32	
	3		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
	4		2493.767	34.89	10.42	45.31	74.00	-28.69	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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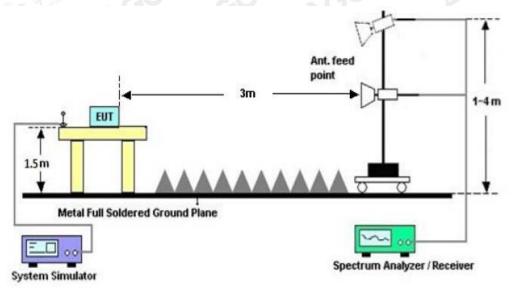
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# 11. 20DB BANDWIDTH

### **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

BLUET	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Desult							
	99%OBW (MHz)		-20dB BW(MHz)	Result					
The Construction of Manufacture	Low Channel	0.899	1.062	PASS					
N/A	Middle Channel	0.905	1.058	PASS					
	High Channel	0.900	1.066	PASS					

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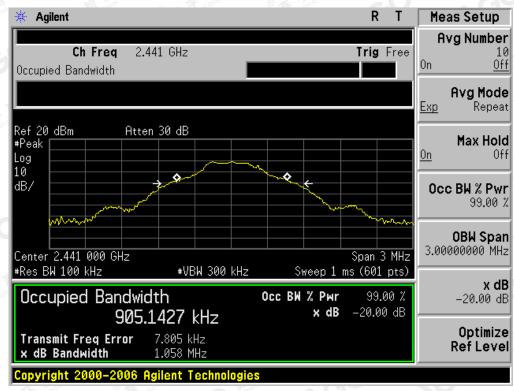


### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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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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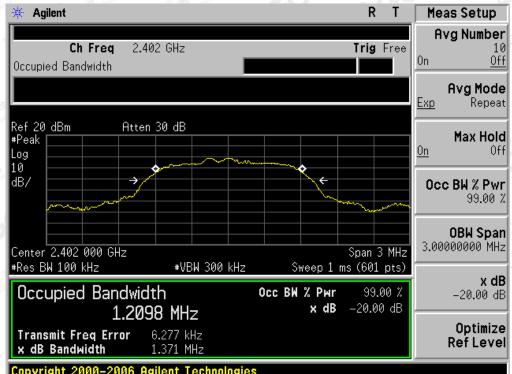


BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Result							
The termine	Low Channel	1.210	1.371	PASS					
N/A	Middle Channel	1.208	1.372	PASS					
	High Channel	1.213	1.375	PASS					

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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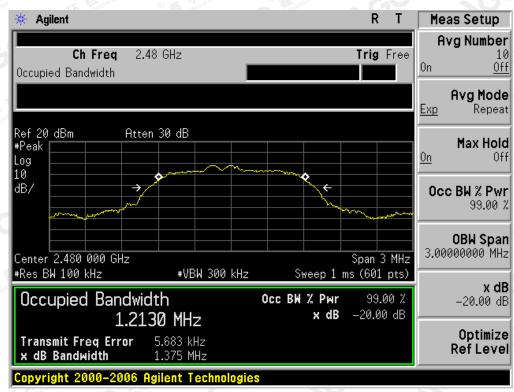




### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# **12. FCC LINE CONDUCTED EMISSION TEST**

### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

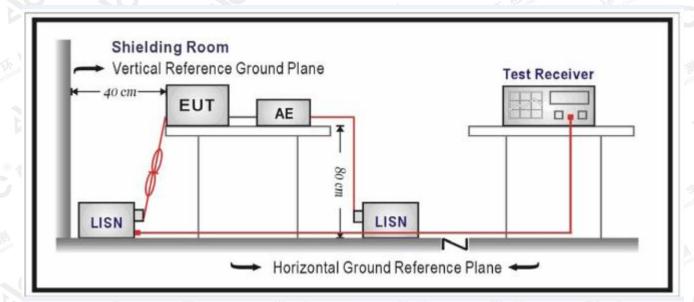
Francisco	Maximum RF	Line Voltage
Frequency	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

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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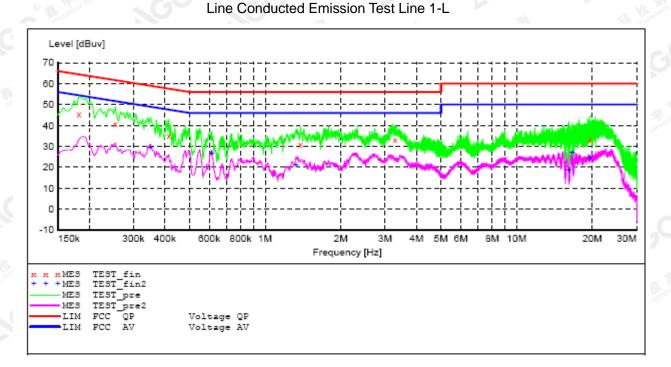
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### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

### By adapter(worst case)

### FOR BR/EDR



# MEASUREMENT RESULT: "TEST fin"

2018/5/23 14: Frequency MHz		Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.182000	45.50	10.0	64	18.9	QP	L1	FLO
0.254000	40.70	10.1	62	20.9	QP	L1	FLO
0.414000	35.00	10.0	58	22.6	QP	L1	FLO
1.382000	30.70	10.0	56	25.3	QP	L1	FLO
3.286000	33.40	10.0	56	22.6	QP	L1	FLO
19.550000	33.20	9.4	60	26.8	OP	L1	FLO

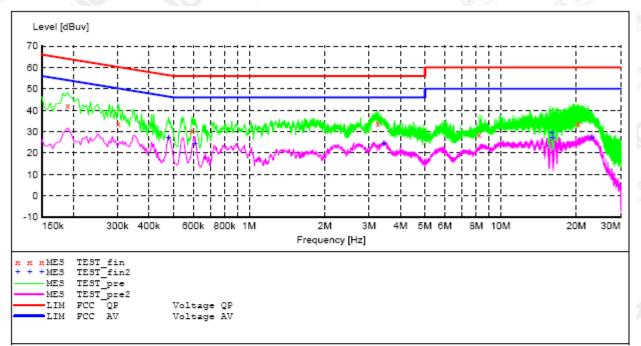
MEASUREMENT RESULT: "TEST fin2"

20	18/5/23 14	:15						
	Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
	0.350000	29.40	10.0	49	19.6	AV	L1	FLO
	0.614000	26.50	9.9	46	19.5	AV	L1	FLO
	1.330000	21.10	10.0	46	24.9	AV	L1	FLO
	16.098000	18.50	9.5	50	31.5	AV	L1	FLO
	16.634000	27.40	9.5	50	22.6	AV	L1	FLO
	19.550000	24.30	9.4	50	25.7	AV	L1	FLO

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Line Conducted Emission Test Line 2-N

#### MEASUREMENT RESULT: "TEST fin"

2018/5/23	14:19						
Frequen M	-	el Transd uv dB		Margin dB	Detector	Line	PE
0.1900	00 41.	90 10.1	64	22.1	QP	Ν	FLO
0.3020	00 33.	50 10.1	60	26.7	QP	Ν	FLO
0.5940	00 30.	40 9.9	56	25.6	QP	Ν	FLO
3.2540	00 33.	60 10.0	56	22.4	QP	Ν	FLO
8.2180	00 28.	40 10.1	60	31.6	QP	Ν	FLO
20.3060	00 33.	70 9.5	60	26.3	QP	N	FLO

#### MEASUREMENT RESULT: "TEST fin2"

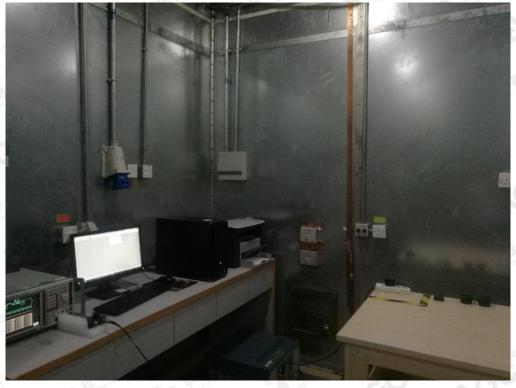
2018/5/23 14:	19						
Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.478000	27.40	10.0	46	19.0	AV	N	FLO
0.610000	24.50	9.9	46	21.5	AV	N	FLO
3.438000	24.40	10.0	46	21.6	AV	Ν	FLO
16.006000	29.60	9.5	50	20.4	AV	Ν	FLO
16.070000	27.30	9.5	50	22.7	AV	Ν	FLO
23.030000	27.20	10.0	50	22.8	AV	N	FLO

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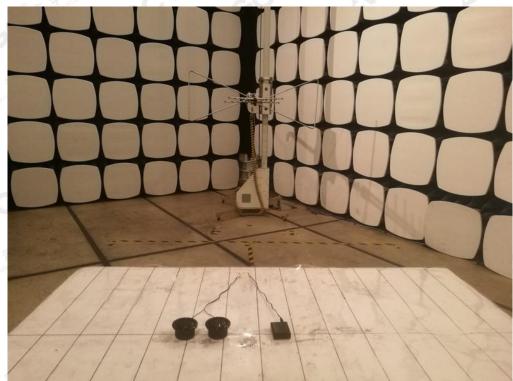


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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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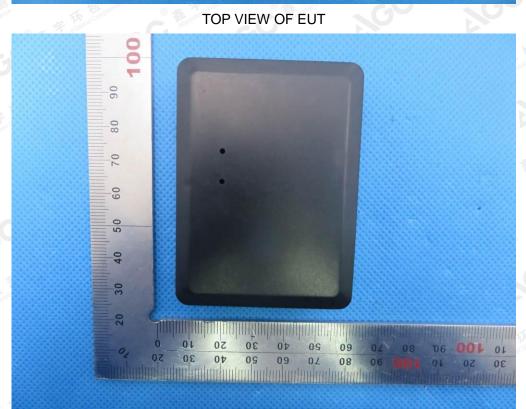


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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT



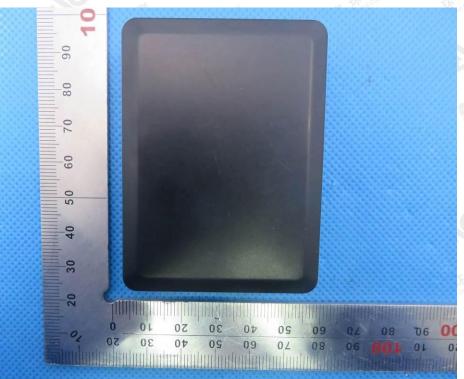


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### BOTTOM VIEW OF EUT

FRONT VIEW OF EUT



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### BACK VIEW OF EUT



### LEFT VIEW OF EUT



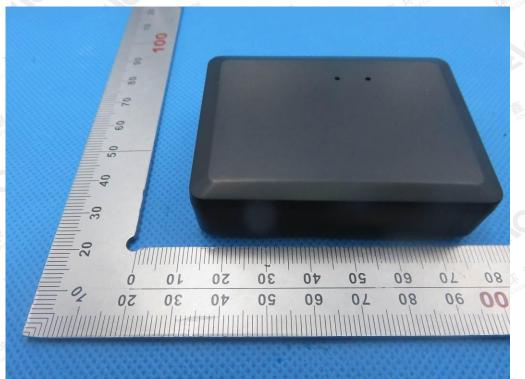
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### **RIGHT VIEW OF EUT**



#### VIEW OF EUT (PORT)



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### **OPEN VIEW OF EUT**



#### **VIEW OF BATTERY-1**



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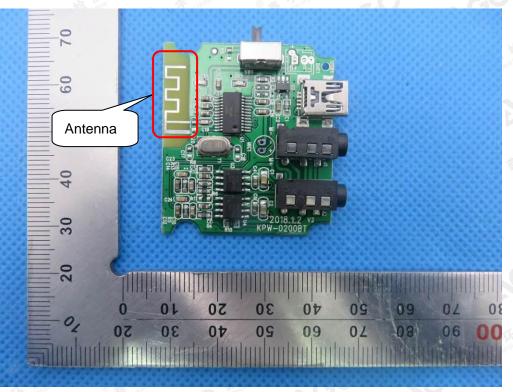


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**VIEW OF BATTERY-2** 



**INTERNAL VIEW OF EUT-1** 



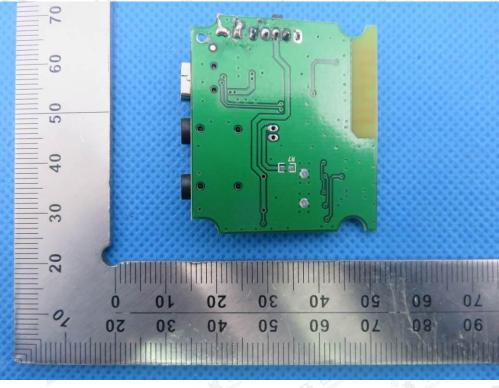
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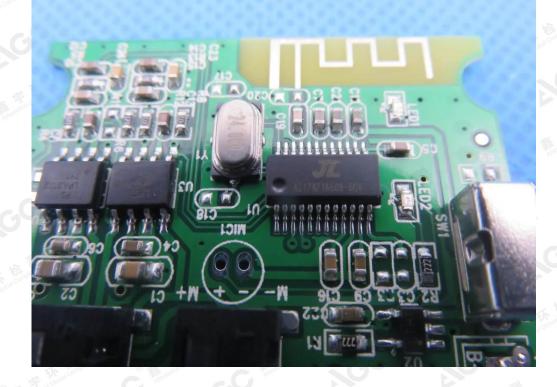


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### **INTERNAL VIEW OF EUT-2**



INTERNAL VIEW OF EUT-3



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### VIEW OF ADAPTER(AE)



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