

# **FCC Test Report**

Report No.: AGC02457180701FE03

FCC ID : X2KBHIERBLT1-R

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: In-Ear Bluetooth Headphones

BRAND NAME : Digital Basics

**MODEL NAME** : BHIERBLT1-R

**CLIENT**: Digital Gadgets LLC

**DATE OF ISSUE** : July 24, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249

**REPORT VERSION**: V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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



age 2 of 59

# **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	A Land Control of the	July 24, 2018	Valid	Initial release

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# TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.2. TABLE OF CARRIER FREQUENCYS	5
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM	8
6. TEST FACILITY	10
7. TEST METHOD	11
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1. TEST LIMIT 9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP 9.4. TEST RESULT	12 13 15
10. BAND EDGE EMISSION	38
10.1. MEASUREMENT PROCEDURE	38 39
11. 20DB BANDWIDTH	43
11.1. MEASUREMENT PROCEDURE	43
12. FCC LINE CONDUCTED EMISSION TEST	50
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	50 51 51
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	52
ADDENIDIY D. DUOTOGDADUS OF FUT	54

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age 4 of 59

#### 1. VERIFICATION OF CONFORMITY

Applicant	Digital Gadgets LLC
Address	570 Lexington Avenue, 7th Floor, New York, United States, 10022
Manufacturer	Shenzhen Swetz Sound Technology Co., Limited
Address	No.18 Xiantian Road,Longgang Central Shenzhen China
Product Designation	In-Ear Bluetooth Headphones
Brand Name	Digital Basics
Test Model	BHIERBLT1-R
Date of test	July 17, 2018 to July 23, 2018
Deviation	None C
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	Jordien Wand	
or colou by	Jonhen Wang(Wang Yonghuan)	July 23, 2018
Reviewed By	and change	
	Cool Cheng(Cheng Mengguo)	July 24, 2018
	Lowest cen	
Approved By		
	Forrest Lei(Lei Yonggang)  Authorized Officer	July 24, 2018

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#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical descript	ion of Eon is described as following
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	V1.4
Software Version	V1.2
Antenna Designation	PCB Antenna
Antenna Gain	-0.5dBi
Power Supply	DC 3.7V by battery
Noto:	

The USB port only used for charging and can't be used to transfer data with PC.
 The BT function of EUT didn't work when charging.

#### 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number			Frequency	
, GO		0	TK Tomplence	2402MHz	® 5 3 10 10 10 10 10 10 10 10 10 10 10 10 10
	The Till of the Control of the Contr	® # Control Global Control	(S) The state of Global	2403MHz	C Alles
	alion of Global				-700
		38		2440 MHz	The Kingliance
2400~2483.5MHz	N. TO	39	The Compliance	2441 MHz	no.
	(a) William of Global Co	40		2442 MHz	
	-C			- 700 - 100	The Third
	- Till	77	The Complaints	2479 MHz	R Attestation of Co.
	TK Compliance	78	® Milestation (Ga	2480 MHz	

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Page 6 of 59

#### 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

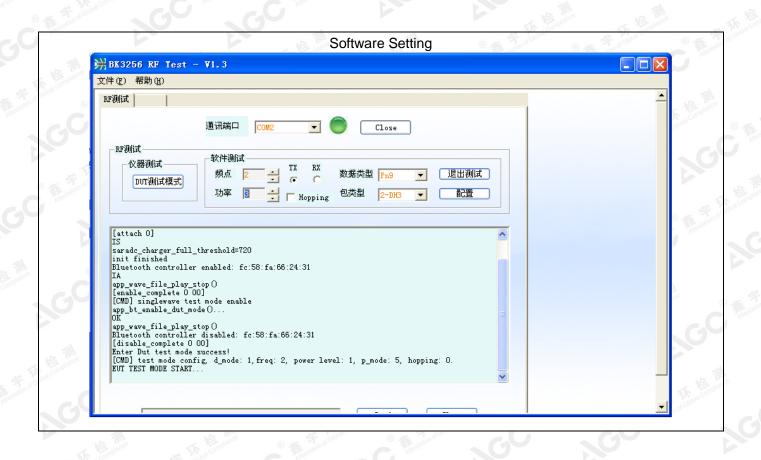
NO.	TEST MODE DESCRIPTION
1 The Mariane	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5 T. 10 T. 1	Middle channel π /4-DQPSK
© 46 6 10 10 10 10 10 10 10 10 10 10 10 10 10	High channel π /4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9 @ Martin dicion	High channel 8DPSK
10	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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Page 8 of 59

# 5. SYSTEM TEST CONFIGURATION

#### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			KEL.	
EUT	Hallono	Control box	0,00	PC

#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Equipment Mfr/Brand Model/Type		No. Remark	
1 In-Ear Bluetooth Headphones		Digital Basics	BHIERBLT1-R	EUT	
2	Battery	Shenzhen Theurgy	401020	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	BEKEN	N/A	A.E	
5	USB Cable	N/A	1m unshielded	A.E	
6	IPOD	APPLE	A1367	A.E	

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Page 9 of 59

#### **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	N/A
§15.215	Bandwidth	Compliant

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

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Page 10 of 59

### 6. TEST FACILITY

Part of the second of the seco				
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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Page 11 of 59

#### 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**

		The state of the s	APPAI AU		(17 /50%
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	station of Country	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019

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Page 12 of 59

#### 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 St	rengths 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)	电视 不是心
1.705 ~ 30	30	30	Company of Circumstance of Cir
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 F. F. Standard Community	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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Page 13 of 59

#### 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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age 14 of 59

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

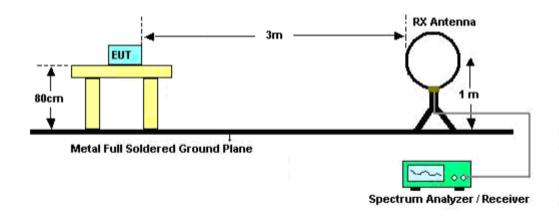
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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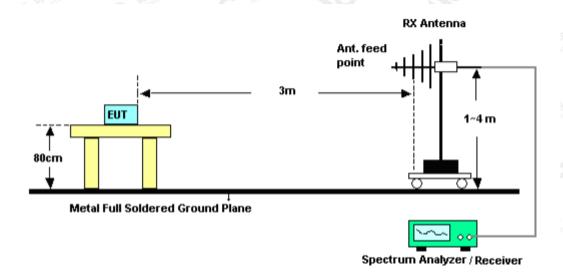


#### 9.3. TEST SETUP

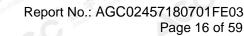
#### RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



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

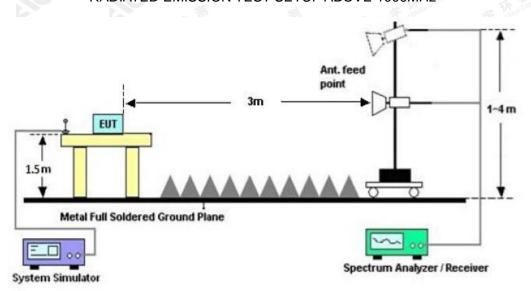


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#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 17 of 59

#### 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



**RESULT: PASS** 

649.1833

730.0167

8.73

8.21

23.85

26.07

32.58

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46.00

46.00

-13.42

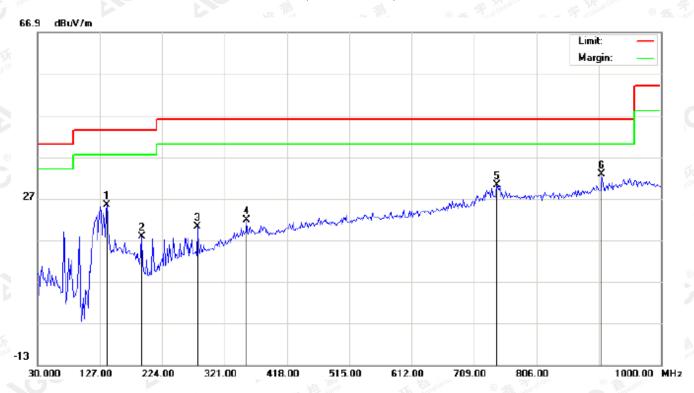
peak

peak



Page 18 of 59

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
9		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm degree		
	1		138.3167	11.00	14.50	25.50	43.50	-18.00	peak			
	2		191.6667	6.67	11.11	17.78	43.50	-25.72	peak			
	3		278.9667	5.42	14.77	20.19	46.00	-25.81	peak			
	4		354.9500	3.07	18.77	21.84	46.00	-24.16	peak			
	5		744.5667	3.65	26.47	30.12	46.00	-15.88	peak			
	6	*	907.8500	4.03	28.83	32.86	46.00	-13.14	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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Page 19 of 59

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
3	1		127.0000	14.53	9.13	23.66	43.50	-19.84	peak			
10,	2		199.7500	13.67	11.99	25.66	43.50	-17.84	peak			
	3		468.1167	10.98	20.79	31.77	46.00	-14.23	peak			
	4		639.4833	10.64	23.82	34.46	46.00	-11.54	peak			
	5	*	712.2333	9.53	25.56	35.09	46.00	-10.91	peak			
	6		733.2500	7.85	26.16	34.01	46.00	-11.99	peak			

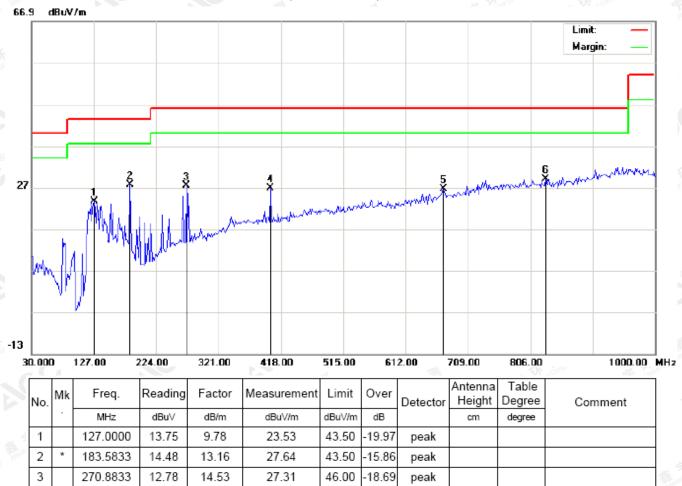
**RESULT: PASS** 

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Page 20 of 59

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



#### **RESULT: PASS**

401.8333

670.2000

830.2500

7.68

2.29

1.70

4

5

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

26.81

26.68

29.01

19.13

24.39

27.31

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

46.00

46.00

46.00

-19.19

-19.32

-16.99

peak

peak

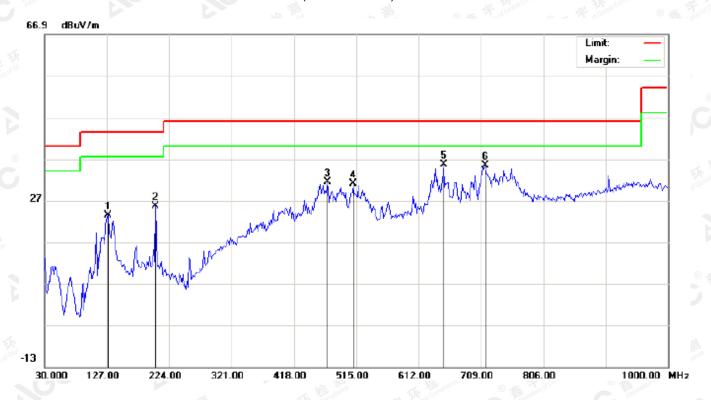
peak

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Page 21 of 59

#### RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH 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		128.6167	13.57	9.88	23.45	43.50	-20.05	peak			
	2		202.9832	14.00	11.70	25.70	43.50	-17.80	peak			
	3		469.7333	10.57	20.80	31.37	46.00	-14.63	peak			
	4		510.1500	9.55	21.40	30.95	46.00	-15.05	peak			
	5	*	650.8000	11.79	23.87	35.66	46.00	-10.34	peak			
1	6		715.4667	9.76	25.66	35.42	46.00	-10.58	peak		·	

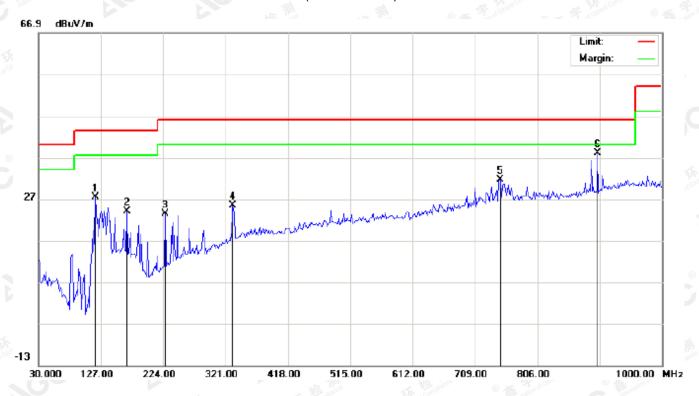
**RESULT: PASS** 

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Page 22 of 59

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



N	0.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
,	Π		118.9167	21.09	6.32	27.41	43.50	-16.09	peak			
2	2		167.4167	9.19	14.86	24.05	43.50	-19.45	peak			
3	3		227.2333	11.71	11.67	23.38	46.00	-22.62	peak			
4	1		332.3167	7.83	17.56	25.39	46.00	-20.61	peak			
į	5		747.8000	4.96	26.57	31.53	46.00	-14.47	peak			
6	6	*	899.7667	9.48	28.60	38.08	46.00	-7.92	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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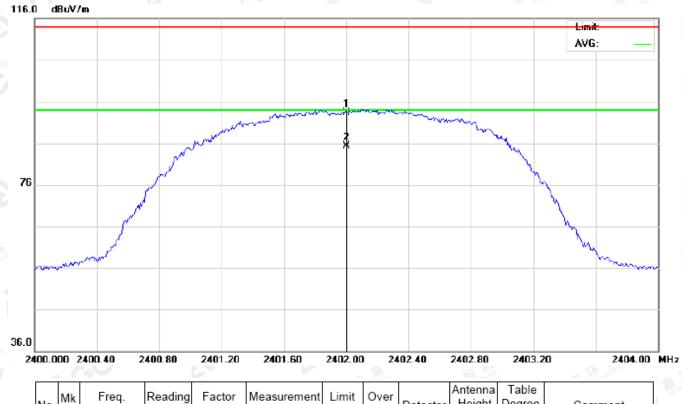
Page 23 of 59

#### **RADIATED EMISSION ABOVE 1GHz**

(Worst modulation: GFSK)

#### For Fundamental

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Tab Detector Height Degr		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	82.99	10.32	93.31	114.00	-20.69	peak			
2	*	2402.000	75.05	10.32	85.37	94.00	-8.63	AVG	100	25	

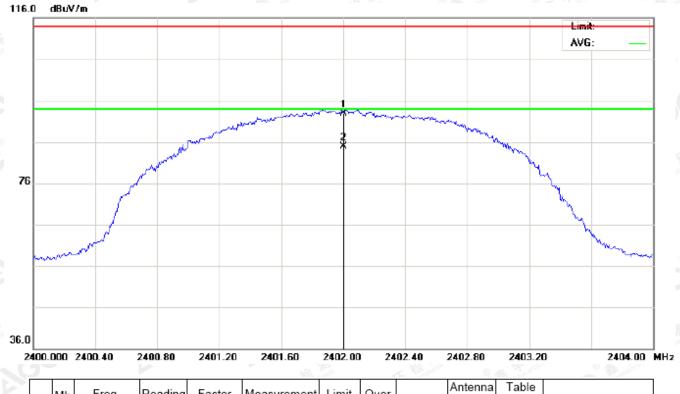
RESULT. PASS

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Page 24 of 59

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	82.54	10.32	92.86	114.00	-21.14	peak			
2	*	2402.000	74.54	10.32	84.86	94.00	-9.14	AVG	100	303	

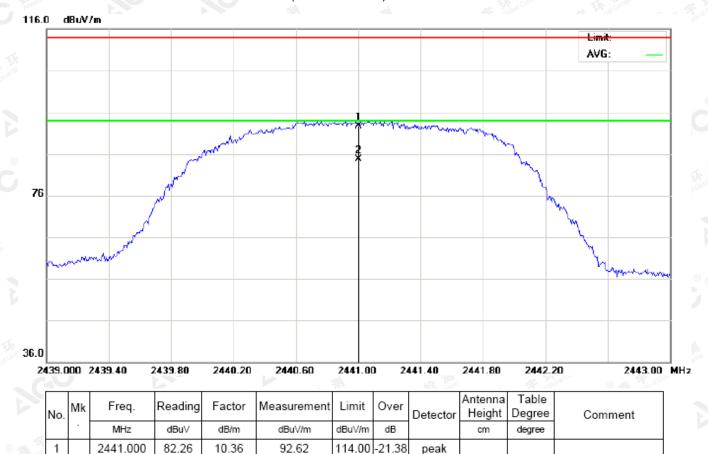
**RESULT: PASS** 

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Page 25 of 59

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



94.00

AVG

84.69

**RESULT: PASS** 

2441.000

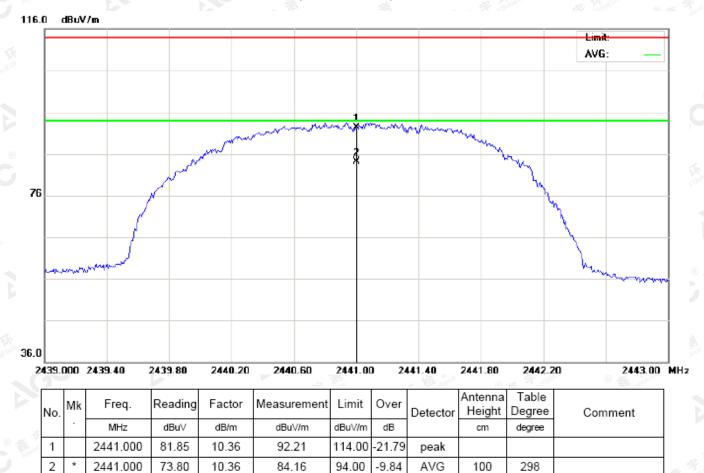
74.33

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Page 26 of 59

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



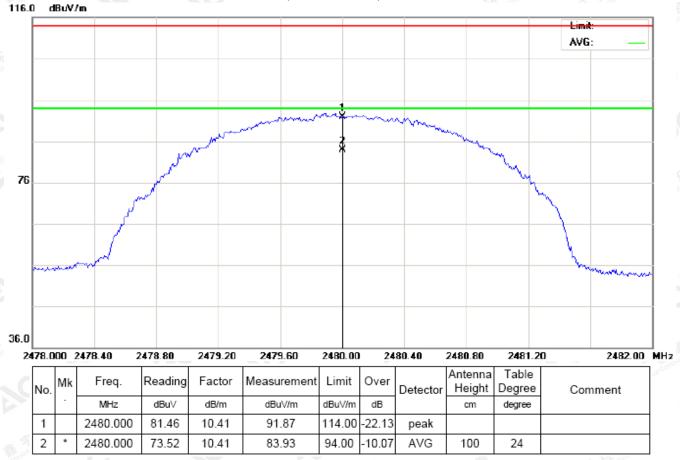
**RESULT: PASS** 

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Page 27 of 59

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



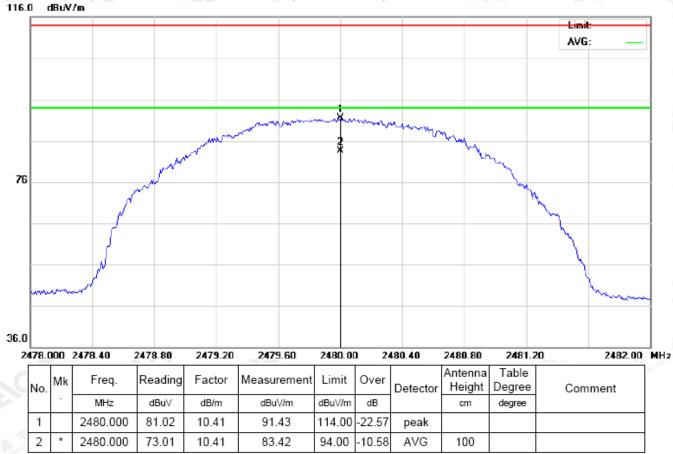
**RESULT: PASS** 

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Page 28 of 59

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



#### **RESULT: PASS**

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

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

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age 29 of 59

## 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	82.99	10.32	93.31	114	-20.69	Horizontal
2402	82.54	10.32	92.86	114	-21.14	Vertical
2441	82.26	10.36	92.62	114	-21.38	Horizontal
2441	81.85	10.36	92.21	114	-21.79	Vertical
2480	81.46	10.41	91.87	114	-22.13	Horizontal
2480	81.02	10.41	91.43	114	-22.57	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.05	10.32	85.37	94	-8.63	Horizontal
2402	74.54	10.32	84.86	94	-9.14	Vertical
2441	74.33	10.36	84.69	94	-9.31	Horizontal
2441	73.80	10.36	84.16	94	-9.84	Vertical
2480	73.52	10.41	83.93	94	-10.07	Horizontal
2480	73.01	10.41	83.42	94	-10.58	Vertical

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Page 30 of 59

#### 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	82.68	10.32	93.00	114	-21.00	Horizontal
2402	82.13	10.32	92.45	114	-21.55	Vertical
2441	81.88	10.36	92.24	114	-21.76	Horizontal
2441	81.44	10.36	91.80	114	-22.20	Vertical
2480	81.11	10.41	91.52	114	-22.48	Horizontal
2480	80.63	10.41	91.04	114	-22.96	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.57	10.32	84.89	94	-9.11	Horizontal
2402	74.12	10.32	84.44	94	-9.56	Vertical
2441	73.99	10.36	84.35	94	-9.65	Horizontal
2441	73.45	10.36	83.81	94	-10.19	Vertical
2480	73.06	10.41	83.47	94	-10.53	Horizontal
2480	72.56	10.41	82.97	94	-11.03	Vertical

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Page 31 of 59

#### 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	82.35	10.32	92.67	114	-21.33	Horizontal
2402	81.77	10.32	92.09	114	-21.91	Vertical
2441	81.47	10.36	91.83	114	-22.17	Horizontal
2441	81.13	10.36	91.49	114	-22.51	Vertical
2480	80.65	10.41	91.06	114	-22.94	Horizontal
2480	80.24	10.41	90.65	114	-23.35	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.08	10.32	84.40	94	-9.60	Horizontal
2402	73.64	10.32	83.96	94	-10.04	Vertical
2441	73.50	10.36	83.86	94	-10.14	Horizontal
2441	73.00	10.36	83.36	94	-10.64	Vertical
2480	72.69	10.41	83.10	94	-10.90	Horizontal
2480	72.11	10.41	82.52	94	-11.48	Vertical

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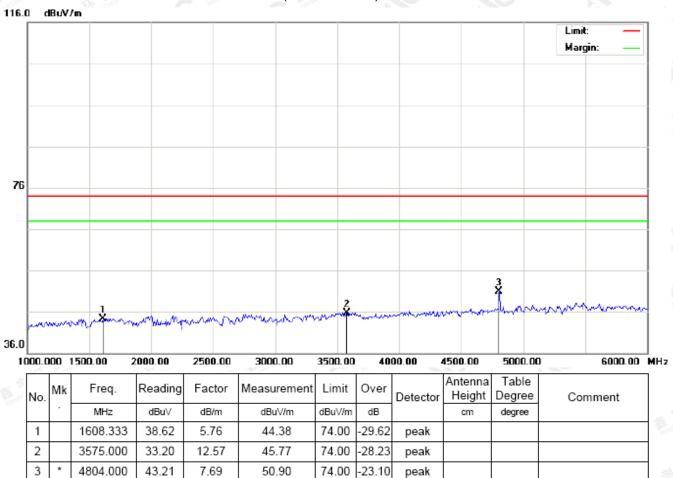


Page 32 of 59

# (Worst modulation: GFSK)

#### **For Harmonics**

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



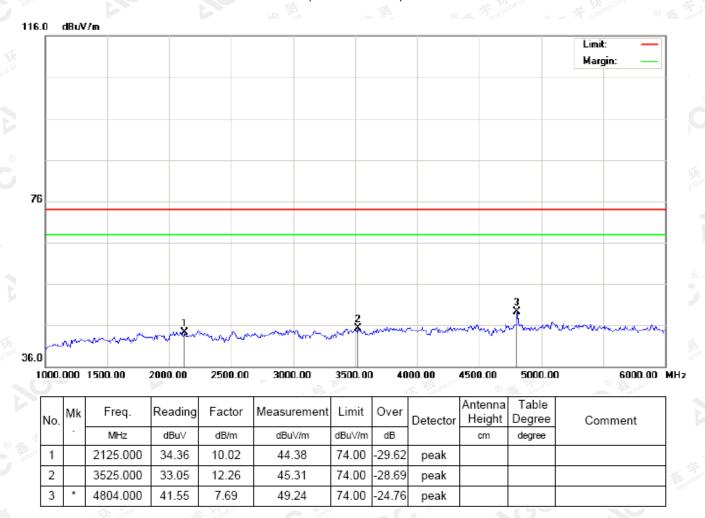
**RESULT: PASS** 

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Page 33 of 59

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



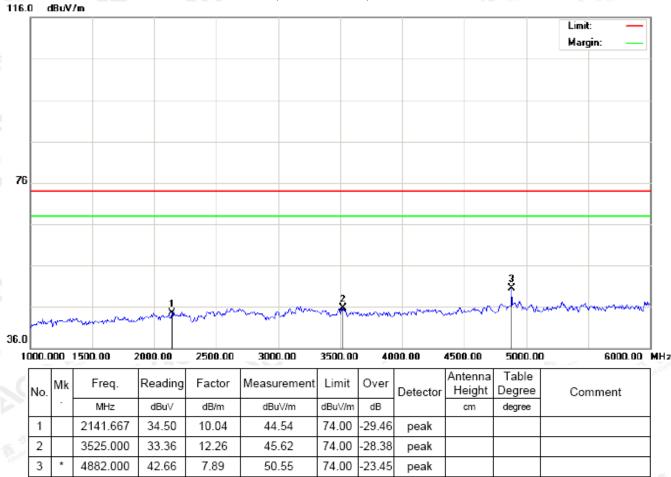
**RESULT: PASS** 

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Page 34 of 59

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



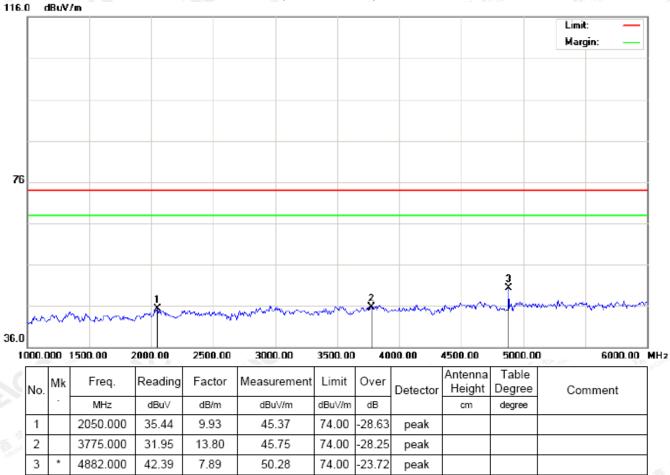
**RESULT: PASS** 

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Page 35 of 59

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



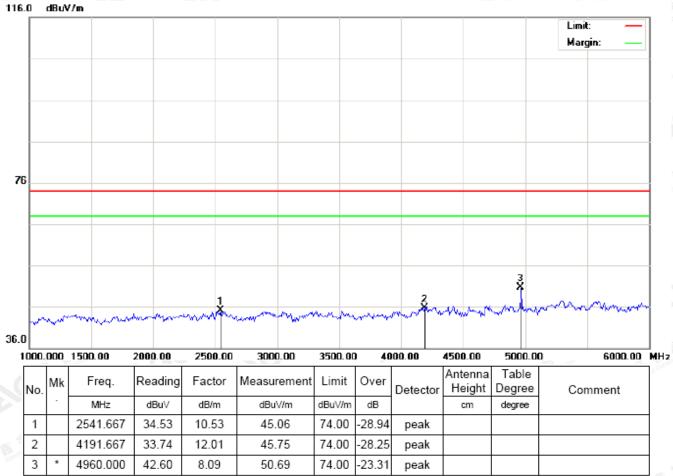
**RESULT: PASS** 

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Page 36 of 59

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



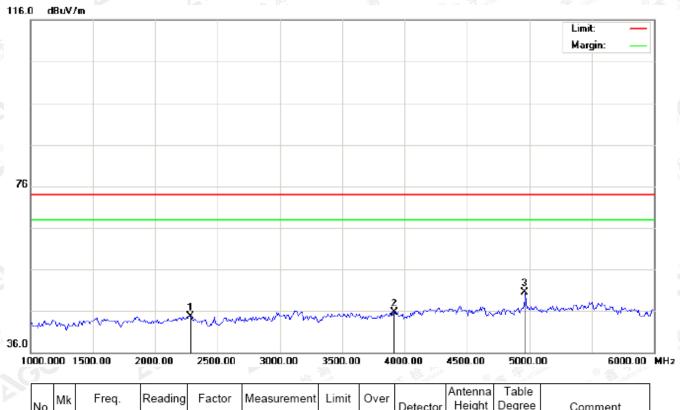
**RESULT: PASS** 

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Page 37 of 59

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
Ę.	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	]
1		2283.333	34.55	10.19	44.74	74.00	-29.26	peak			
2		3916.667	31.12	14.68	45.80	74.00	-28.20	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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Page 38 of 59

### 10. BAND EDGE EMISSION

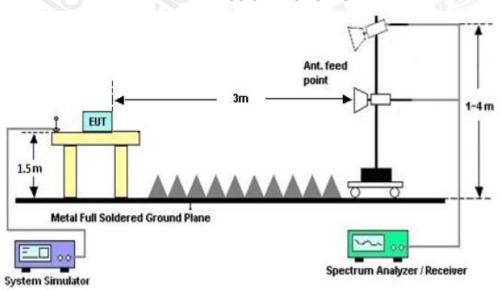
### 10.1. MEASUREMENT PROCEDURE

- 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	2405				
2478	2500				

#### **10.2 TEST SETUP**

## RADIATED EMISSION TEST SETUP



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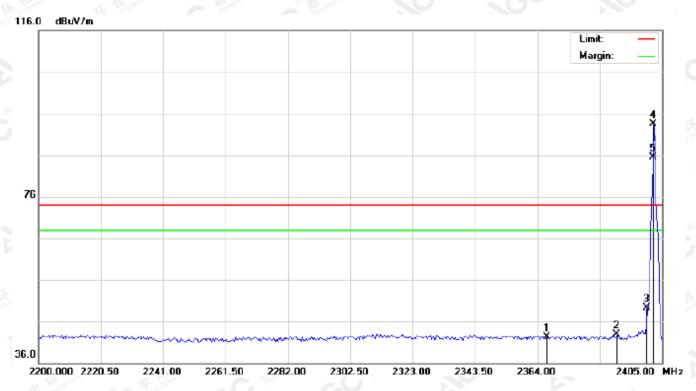


age 39 of 59

# **10.3 RADIATED TEST RESULT**

(Worst modulation: GFSK)

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



3	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		2367.075	32.11	10.28	42.39	74.00	-31.61	peak			
	2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
	3		2400.000	38.97	10.32	49.29	74.00	-24.71	peak			
	4	*	2402.000	83.22	10.32	93.54	74.00	19.54	peak			
	5	Х	2402.000	75.24	10.32	85.56	74.00	11.56	AVG	100	33	

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Page 40 of 59

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



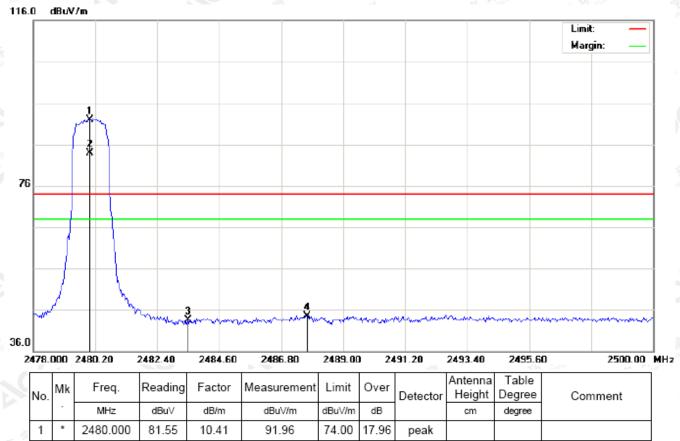
N	o. 1	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ė		- [	MHz	dBu∀	dB/m	dBu√/m	dBu∀/m	dB		cm	degree	
12 1			2371.175	32.08	10.29	42.37	74.00	-31.63	peak			
2	:		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3			2400.000	33.06	10.32	43.38	74.00	-30.62	peak			
4	.	*	2402.000	83.09	10.32	93.41	74.00	19.41	peak			
5		Х	2402.000	74.80	10.32	85.12	74.00	11.12	AVG	100		

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Page 41 of 59

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



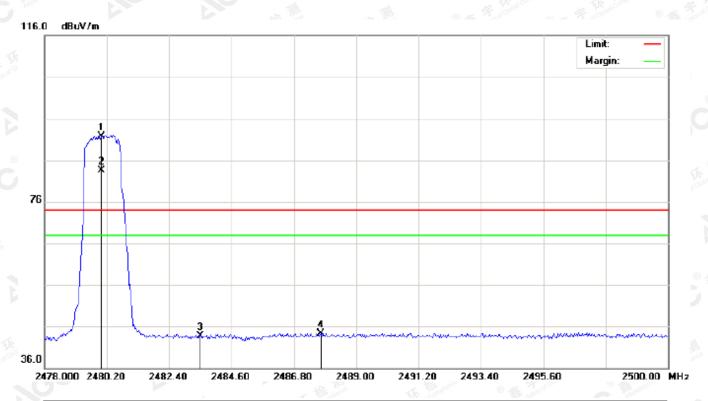
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
ži.	1	*	2480.000	81.55	10.41	91.96	74.00	17.96	peak			
ď	2	Х	2480.000	73.57	10.41	83.98	74.00	9.98	AVG	100	28	
	3		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
	4		2487.716	34.18	10.42	44.60	74.00	-29.40	peak			

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Page 42 of 59

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



N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
0	1	*	2480.000	81.32	10.41	91.73	74.00	17.73	peak			
	2	Х	2480.000	73.10	10.41	83.51	74.00	9.51	AVG	100	307	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2487.753	33.95	10.42	44.37	74.00	-29.63	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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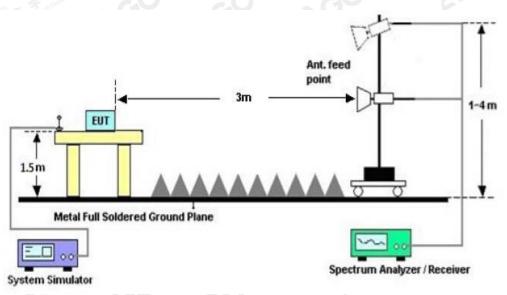
age 43 of 59

## 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

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT							
	Measurement Result						
Applicable Limits							
		99%OBW (MHz)	-20dB BW(MHz)	Result			
The State of the S	Low Channel	0.944	1.114	PASS			
N/A	Middle Channel	0.937	1.117	PASS			
100	High Channel	0.952	1.098	PASS			

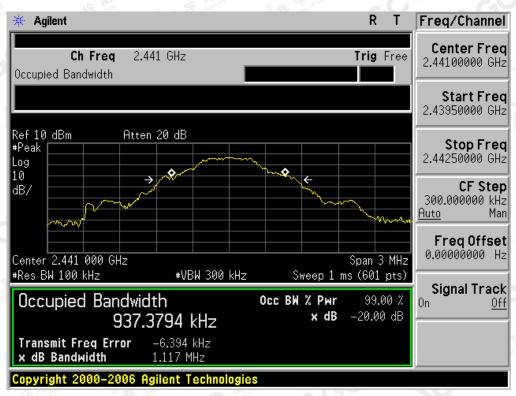
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#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

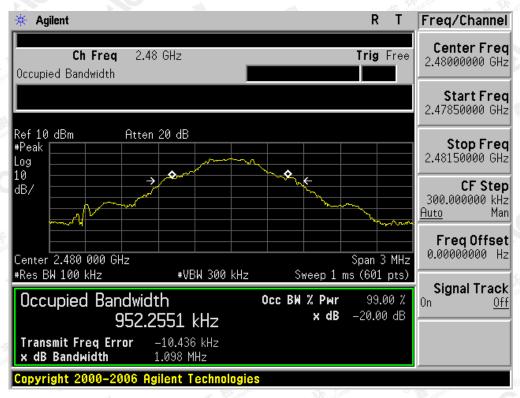


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Page 45 of 59

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 46 of 59

BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits								
		99%OBW (MHz)	-20dB BW(MHz)	Result				
玉 松 测	Low Channel	1.188	1.306	PASS				
N/A	Middle Channel	1.192	1.317	PASS				
CO	High Channel	1.145	1.315	PASS				

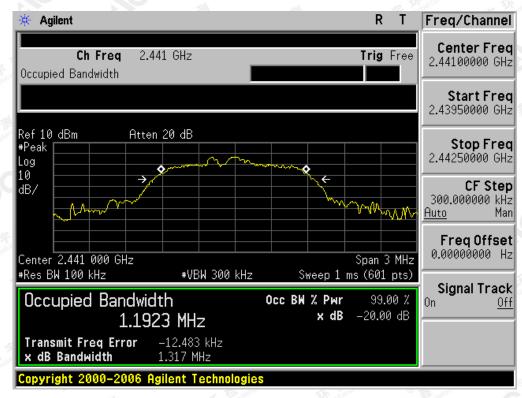
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



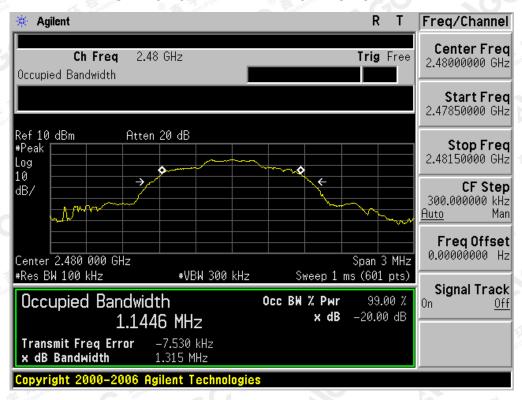
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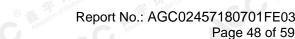
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



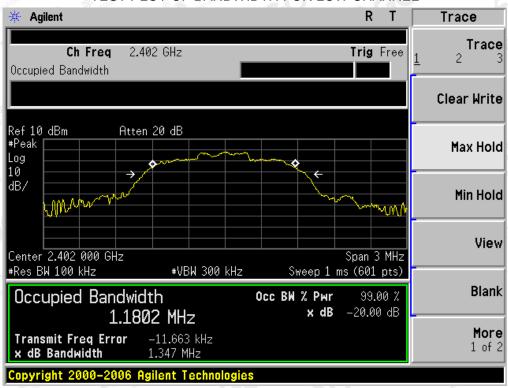
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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits								
		99%OBW (MHz)	-20dB BW(MHz)	Result				
TO THE	Low Channel	1.180	1.347	PASS				
N/A	Middle Channel	1.217	1.386	PASS				
	High Channel	1.197	1.343	PASS				

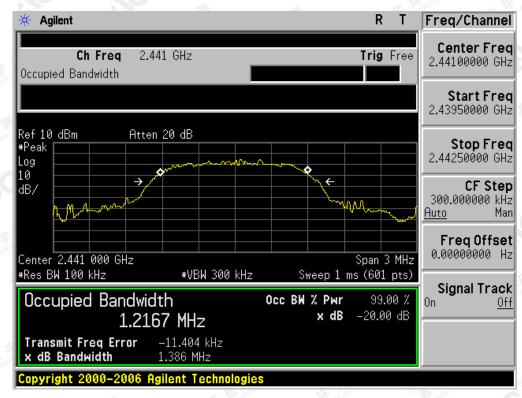
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



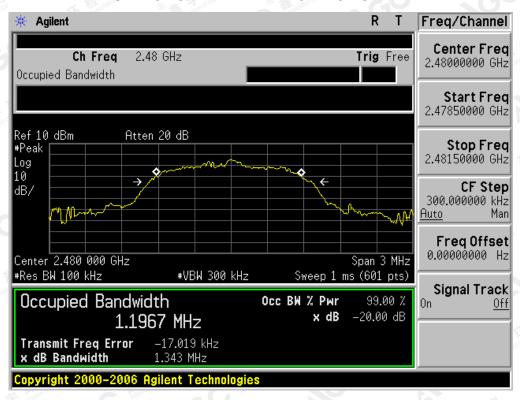
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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age 50 of 59

# 12. FCC LINE CONDUCTED EMISSION TEST

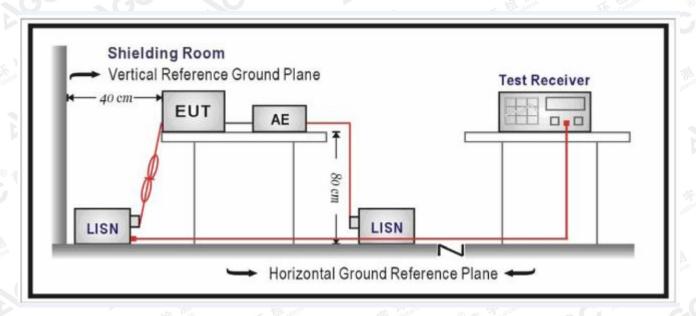
## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage						
Frequency	Q.P.( dBuV)	Average( dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	S 4 5 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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Page 51 of 59

## 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

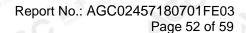
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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.
- 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.

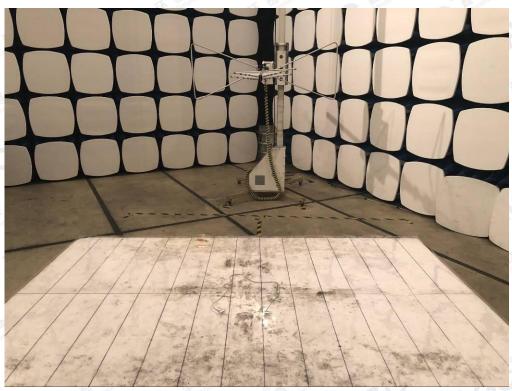
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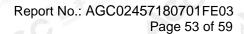
# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP





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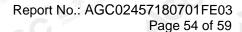








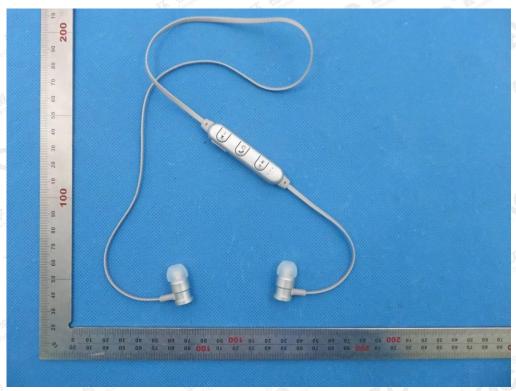
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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



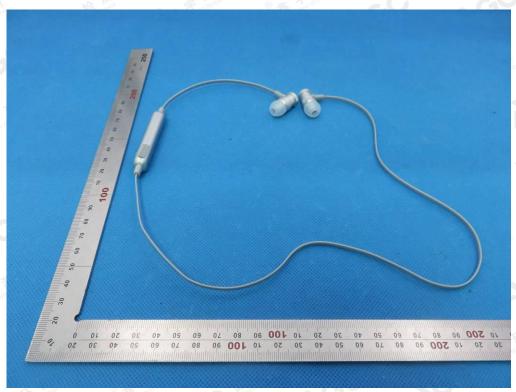
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### FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



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## LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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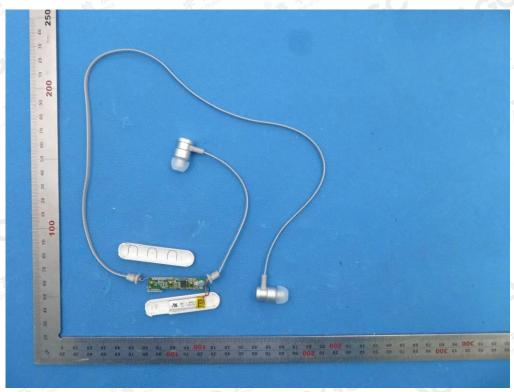
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# VIEW OF EUT (PORT)



**OPEN VIEW OF EUT** 



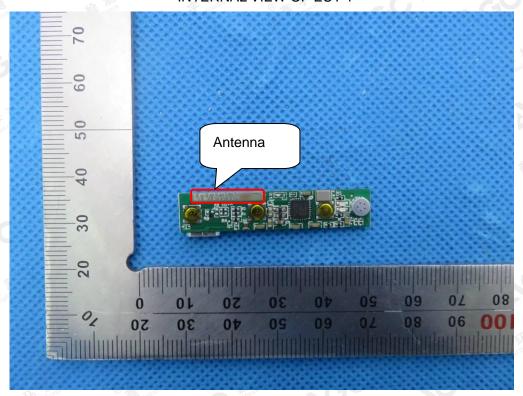
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## VIEW OF EUT BATTERY



**INTERNAL VIEW OF EUT-1** 



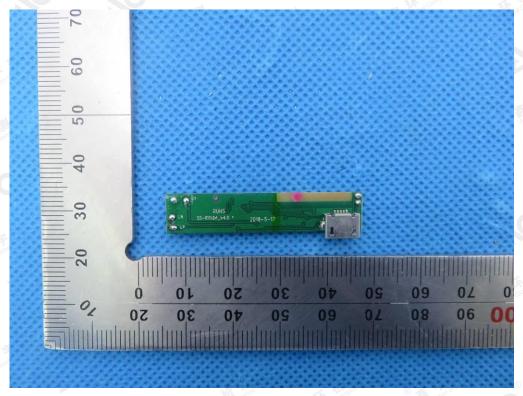
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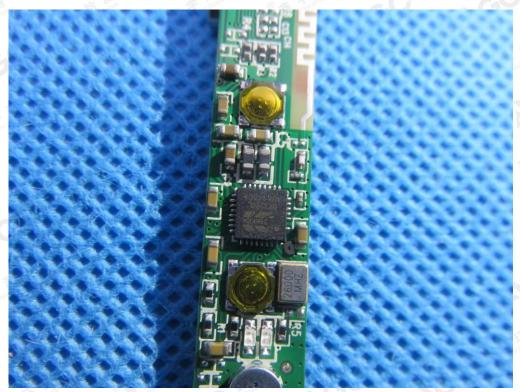
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# **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 



----END OF REPORT----

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