

# **FCC Test Report**

Report No.: AGC00737180501FE03

FCC ID : 2AIL4-BH216A

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: VTIN R2 Bluetooth Speaker

BRAND NAME : VTIN

MODEL NAME : BH216A

CLIENT: VTIN TECHNOLOGY Co., Limited

**DATE OF ISSUE** : May 28, 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

AGC 3

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Attestation of Global Compliance

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## **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience / © Marie	May 28, 2018	Valid	Initial release

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## 1. VERIFICATION OF CONFORMITY

Applicant	VTIN TECHNOLOGY Co., Limited
Address	Unit D,16/F, One Capital Place, 18 Luard Road Wan Chai, HongKong ,China
Manufacturer	VTIN TECHNOLOGY Co., Limited
Address	Unit D,16/F, One Capital Place, 18 Luard Road Wan Chai, HongKong ,China
Product Designation	VTIN R2 Bluetooth Speaker
Brand Name	VTIN
Test Model	BH216A
Date of test	May 14, 2018 to May 26, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

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

Tested By	Jordien Wang	
, il	Jonhen Wang(Wang Yonghuan)	May 26, 2018
Reviewed By	and change	
下校,100	Cool Cheng(Cheng Mengguo)	May 28, 2018
	Forrest ce	
Approved By		lill;
	Forrest Lei(Lei Yonggang)  Authorized Officer	May 28, 2018

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## 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-3.84dBm(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
Hardware Version	1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	0.5dBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	sed for charging and can't be used to transfer data with PC.

## 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency		
NO I	0	2402MHz		
The Hallance	The state of the s	2403MHz		
© ## Julion of Ciobalth © ## dive	CO CO			
30 m	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
Compliance © Martin of Colonic Com	40	2442 MHz		
GC TO CO				
	77	2479 MHz		
100	78	2480 MHz		



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## 3. MEASUREMENT UNCERTAINTY

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

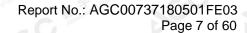
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

## 4. DESCRIPTION OF TEST MODES

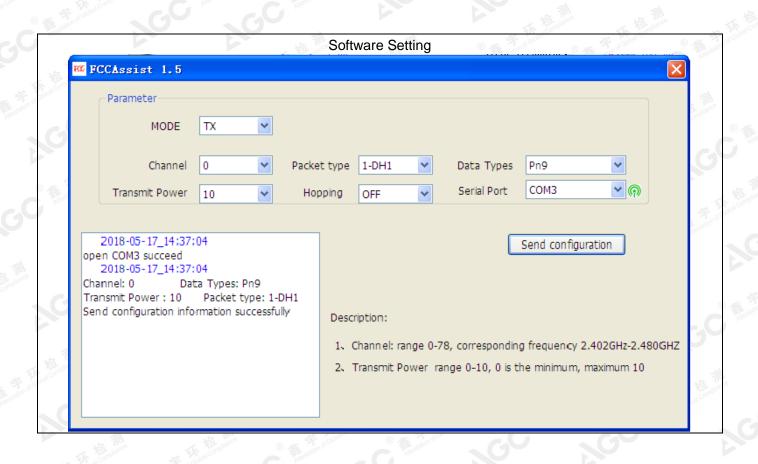
	NO.	TEST MODE DESCRIPTION
	1 水杨	Low channel GFSK
8	2	Middle channel GFSK
G	3	High channel GFSK
	4	Low channel π /4-DQPSK
Wil Juliance	5	Middle channel π /4-DQPSK
obal Com	6	High channel π /4-DQPSK
100	7	BT Link with charging
	8	BT Link

#### Note:

- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.







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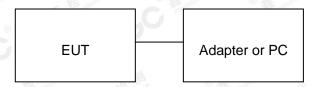


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## 5. SYSTEM TEST CONFIGURATION

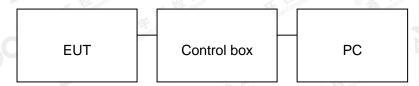
## 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



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

Configure 2: (Control continuous TX)



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

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1	VTIN R2 Bluetooth Speaker	VTIN	BH216A	EUT	
2	Battery	LTG	18650	Accessory	
3	PC PC	APPLE	A1465	A.E	
4	Control box	GZUT	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A	1m unshielded	A.E	
7	USB Cable	N/A	0.5m unshielded	Accessory	
8	AUX IN Cable	N/A	0.5m unshielded	Accessory	
9	IPOD	APPLE	A1367	A.E	
10	TF Card	Kingston	SDA10/16GB	A.E	



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#### **5.3. SUMMARY OF TEST RESULTS**

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



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## 6. TEST FACILITY

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



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## 7. TEST METHOD

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

## 8. TEST EQUIPMENT LIST

## **TEST EQUIPMENT OF CONDUCTED EMISSION TEST**

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

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	-1111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	F of Clobal Compliance	Jun.20, 2017	Jun.19, 2018

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## 9. RADIATED EMISSION

## 9.1. TEST LIMIT

## Standard FCC15.249

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

## Standard FCC 15.209

Frequency	Distance	Field Strengths Limit				
(MHz)	Meters	μ V/m	dB(μV)/m			
0.009 ~ 0.490	300	2400/F(kHz)	2			
0.490 ~ 1.705	30	24000/F(kHz)	校訓			
1.705 ~ 30	30	30 ( )	(a) A Colombia Colombia (b) A Colombia			
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. Barrens	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

- 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.
- All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)



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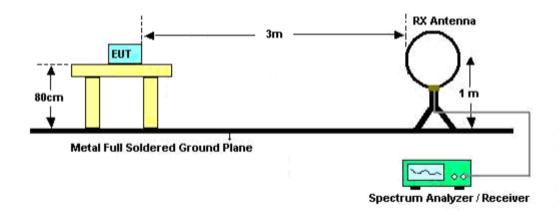
The following table is the setting of spectrum analyzer and receiver.

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

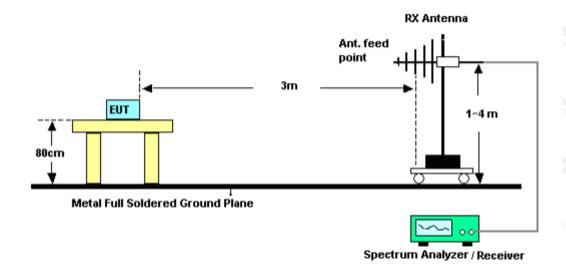


## 9.3. TEST SETUP

## RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



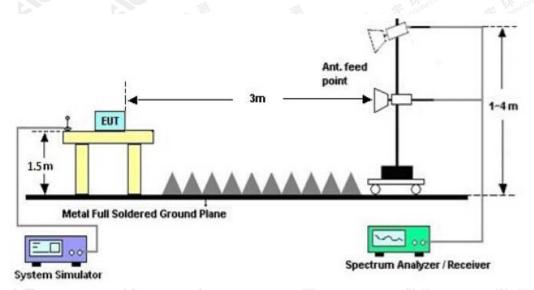
## RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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#### 9.4. TEST RESULT

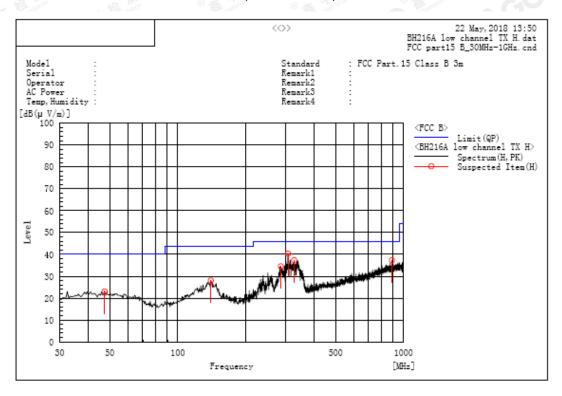
(Worst modulation: π /4-DQPSK)

## **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



#### A. Suspected List:

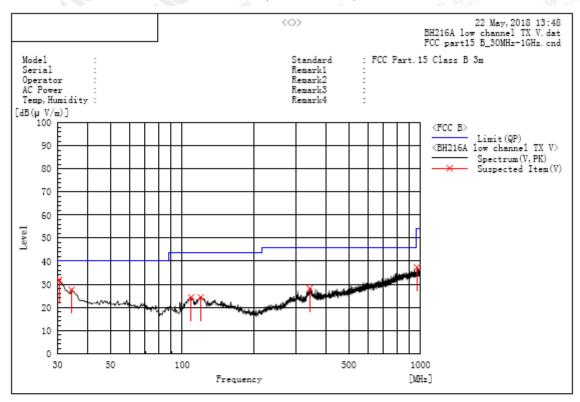
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
47.460	H	5.9	17.2	23.1	40.0	16.9	Pass	200.0	106.1
140.095	H	11.5	16.6	28.1	43.5	15.4	Pass	100.0	91.6
286.080	H	16.9	17.7	34.6	46.0	11.4	Pass	100.0	91.6
307.905	Н	22.9	17.5	40.4	46.0	5.6	Pass	100.0	91.6
327.790	H	19.3	18.1	37.4	46.0	8.6	Pass	150.0	181.0
888.935	Н	7.2	30.1	37.3	46.0	8.7	Pass	200.0	287.4

**RESULT: PASS** 



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



## A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
30.485	V	16.4	15.5	31.9	40.0	8.1	Pass	200.0	345.0
34.365	V	11.5	16.1	27.6	40.0	12.4	Pass	100.0	288.9
109.055	V	9.9	14.4	24.3	43.5	19.2	Pass	200.0	91.0
119.725	V	9.0	15.4	24.4	43.5	19.1	Pass	150.0	72.1
342.340	V	9.6	18.6	28.2	46.0	17.8	Pass	200.0	341.6
966.050	v	6.5	30.8	37.3	54.0	16.7	Pass	150.0	72.1

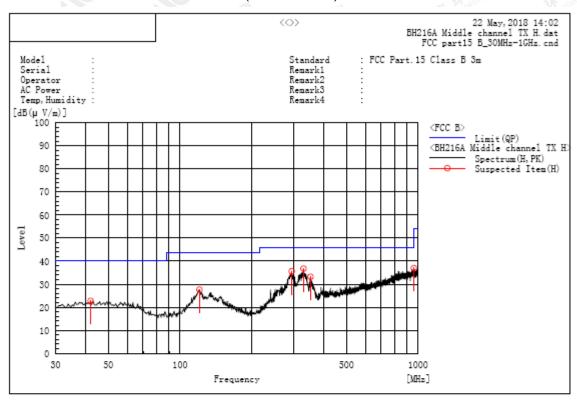
#### **RESULT: PASS**

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

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



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



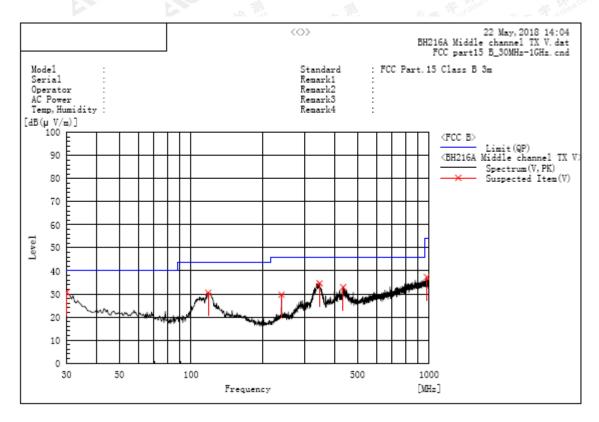
#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.125	Н	5.4	17.4	22.8	40.0	17.2	Pass	100.0	301.0
120.695	Н	12.3	15.4	27.7	43.5	15.8	Pass	150.0	71.4
294.810	Н	18.1	17.5	35.6	46.0	10.4	Pass	200.0	72.2
330.215	Н	18.7	18.1	36.8	46.0	9.2	Pass	200.0	143.5
353.495	Н	14.2	19.0	33.2	46.0	12.8	Pass	200.0	323.4
960.230	Н	6.2	30.8	37.0	54.0	17.0	Pass	100.0	48.4

**RESULT: PASS** 



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



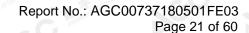
#### A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
	30.000	V	15.3	15.5	30.8	40.0	9.2	Pass	100.0	217.8
	118.270	V	15.4	15.2	30.6	43.5	12.9	Pass	150.0	251.4
	240.005	V	13.5	16.2	29.7	46.0	16.3	Pass	100.0	39.2
1	346.705	V	15.8	18.8	34.6	46.0	11.4	Pass	150.0	71.5
	435.460	V	11.2	21.8	33.0	46.0	13.0	Pass	100.0	110.6
	977.690	v	6.5	30.9	37.4	54.0	16.6	Pass	200.0	90.7

## **RESULT: PASS**

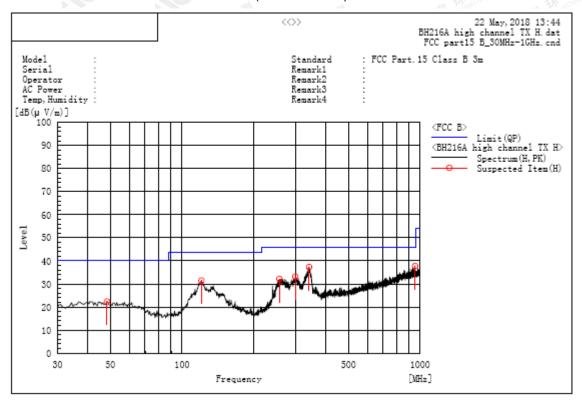
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



## A. Suspected List:

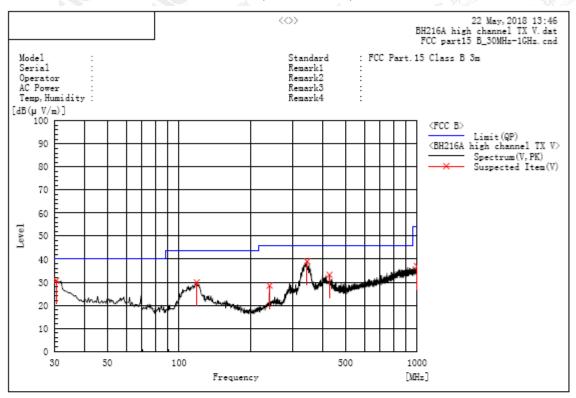
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
48.430	H	5.3	17.1	22.4	40.0	17.6	Pass	100.0	144.3
120.695	Н	16.1	15.4	31.5	43.5	12.0	Pass	200.0	179.8
256.495	H	16.2	16.0	32.2	46.0	13.8	Pass	150.0	358.3
299.175	Н	15.8	17.4	33.2	46.0	12.8	Pass	150.0	213.6
341.855	Н	18.7	18.6	37.3	46.0	8.7	Pass	100.0	144.3
952.955	Н	7.1	30.7	37.8	46.0	8.2	Pass	150.0	142.7

**RESULT: PASS** 



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



#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
30.485	v	15.3	15.5	30.8	40.0	9.2	Pass	150.0	72.2
118.755	v	14.6	15.3	29.9	43.5	13.6	Pass	200.0	215.8
240.005	v	12.3	16.2	28.5	46.0	17.5	Pass	150.0	144.4
345.735	v	20.3	18.7	39.0	46.0	7.0	Pass	100.0	266.9
428.185	v	11.7	21.6	33.3	46.0	12.7	Pass	100.0	266.9
999.515	v	5.9	31.1	37.0	54.0	17.0	Pass	200.0	143.6

#### **RESULT: PASS**

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

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



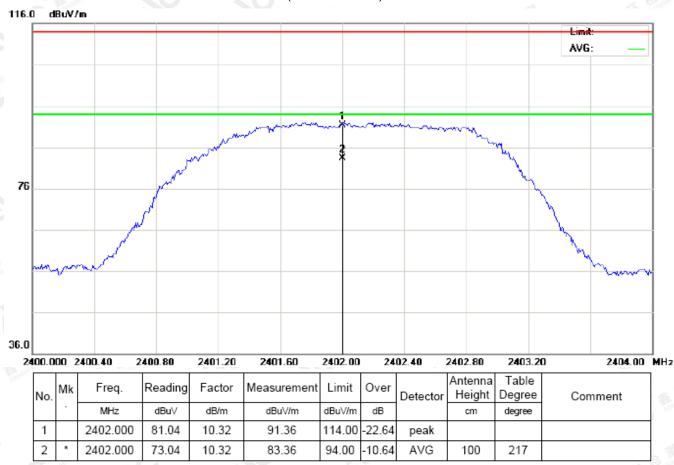
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## **RADIATED EMISSION ABOVE 1GHz**

(Worst modulation: π /4-DQPSK)

#### For Fundamental

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

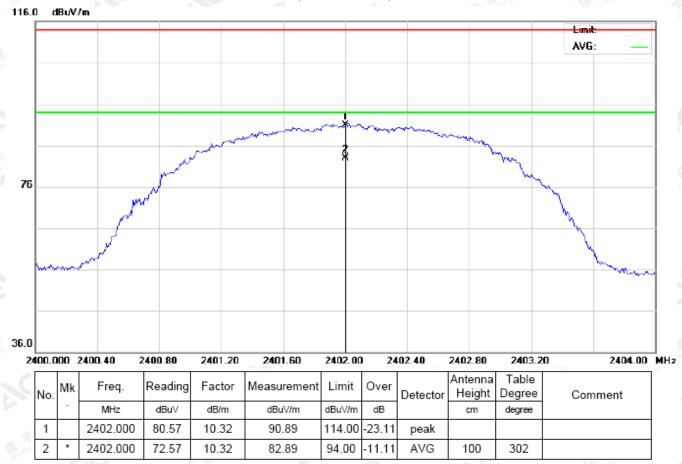


**RESULT: PASS** 



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



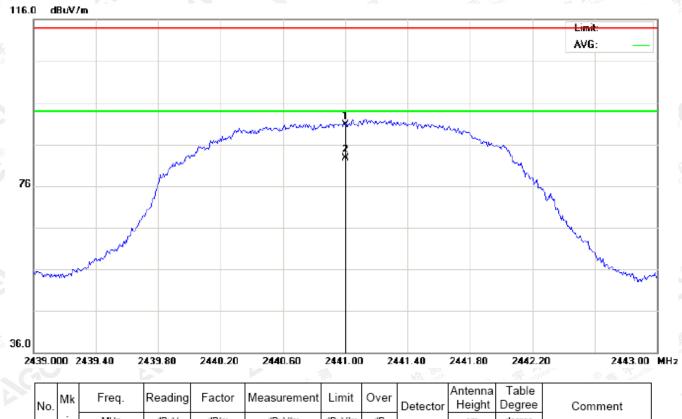
**RESULT: PASS** 

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



N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
0		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	1		2441.000	80.35	10.36	90.71	114.00	-23.29	peak			
	2	*	2441.000	72.39	10.36	82.75	94.00	-11.25	AVG	100	234	

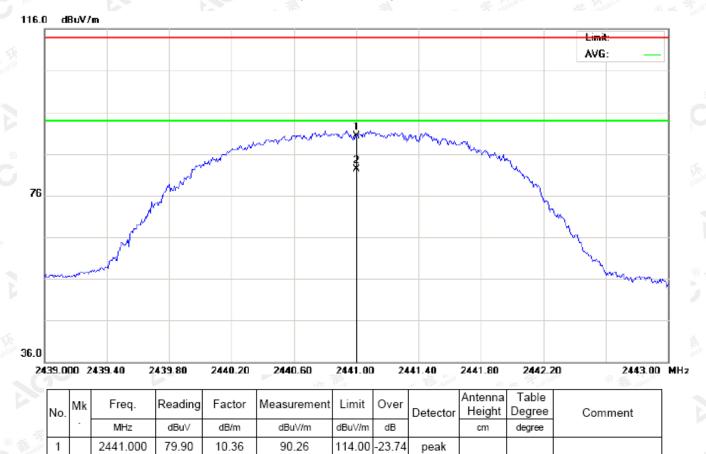
**RESULT: PASS** 

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



94.00

-11.72

AVG

100

121

**RESULT: PASS** 

2441.000

71.92

10.36

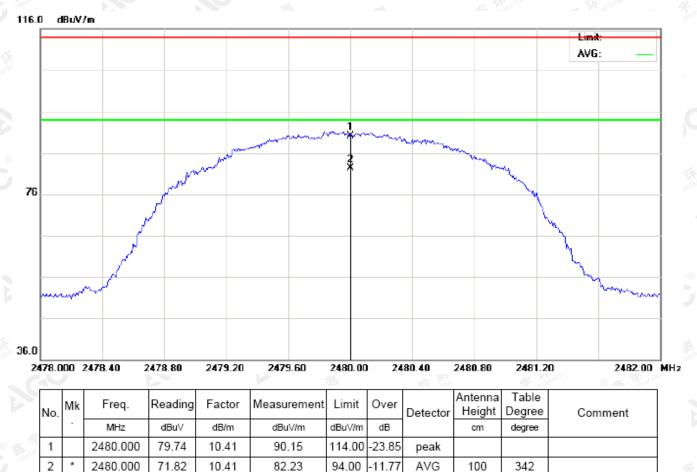
82.28

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



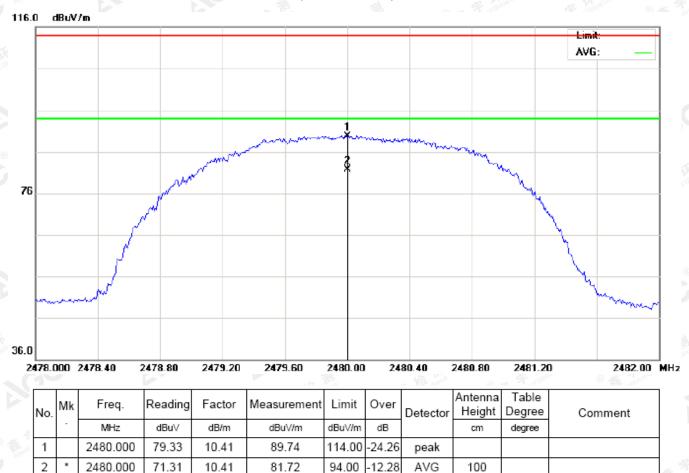
**RESULT: PASS** 

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



## **RESULT: PASS**

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

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



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## Field strength of the fundamental signal

## 2Mbps Result:

## Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.04	10.32	91.36	114	-22.64	Horizontal
2402	80.57	10.32	90.89	114	-23.11	Vertical
2441	80.35	10.36	90.71	114	-23.29	Horizontal
2441	79.90	10.36	90.26	114	-23.74	Vertical
2480	79.74	10.41	90.15	114	-23.85	Horizontal
2480	79.33	10.41	89.74	114	-24.26	Vertical

## Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.04	10.32	83.36	94	-10.64	Horizontal
2402	72.57	10.32	82.89	94	-11.11	Vertical
2441	72.39	10.36	82.75	94	-11.25	Horizontal
2441	71.92	10.36	82.28	94	-11.72	Vertical
2480	71.82	10.41	82.23	94	-11.77	Horizontal
2480	71.31	10.41	81.72	94	-12.28	Vertical



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## 1Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	nit Over Ai	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.58	10.32	90.90	114	-23.10	Horizontal
2402	80.25	10.32	90.57	114	-23.43	Vertical
2441	80.05	10.36	90.41	114	-23.59	Horizontal
2441	79.40	10.36	89.76	114	-24.24	Vertical
2480	79.33	10.41	89.74	114	-24.26	Horizontal
2480	78.94	10.41	89.35	114	-24.65	Vertical

## Average value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	72.58	10.32	82.90	94	-11.10	Horizontal	
2402	72.15	10.32	82.47	94	-11.53	Vertical	
2441	72.04	10.36	82.40	94	-11.60	Horizontal	
2441	71.57	10.36	81.93	94	-12.07	Vertical	
2480	71.48	10.41	81.89	94	-12.11	Horizontal	
2480	70.90	10.41	81.31	94	-12.69	Vertical	

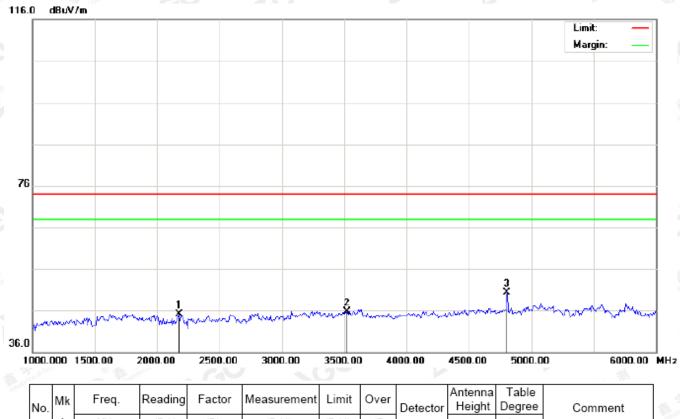


age 31 of 60

## (Worst modulation: π /4-DQPSK)

## **For Harmonics**

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



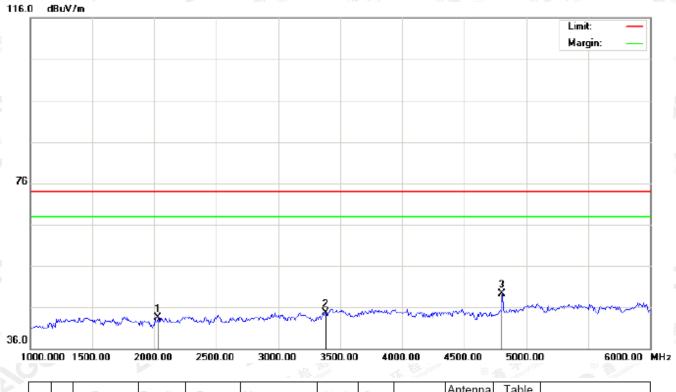
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2175.000	35.00	10.07	45.07	74.00	-28.93	peak			
2		3525.000	33.51	12.26	45.77	74.00	-28.23	peak			
3	*	4804.000	42.71	7.69	50.40	74.00	-23.60	peak			

**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
i	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2033.333	33.59	9.92	43.51	74.00	-30.49	peak			
2		3383.333	32.65	12.00	44.65	74.00	-29.35	peak			
3	*	4804.000	41.55	7.69	49.24	74.00	-24.76	peak			

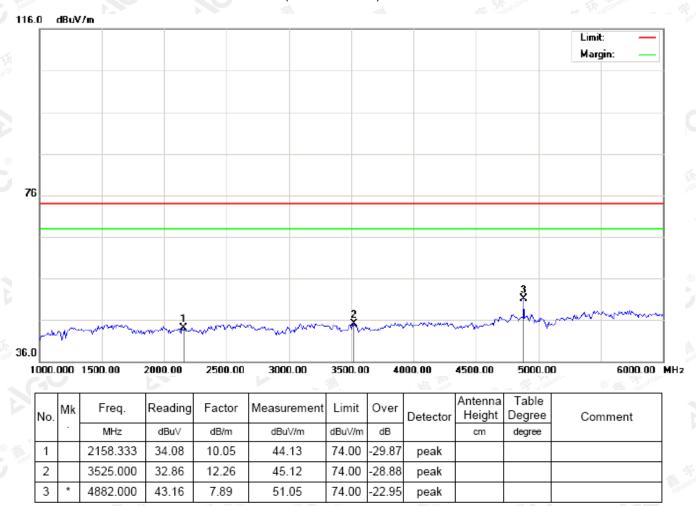
**RESULT: PASS** 

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



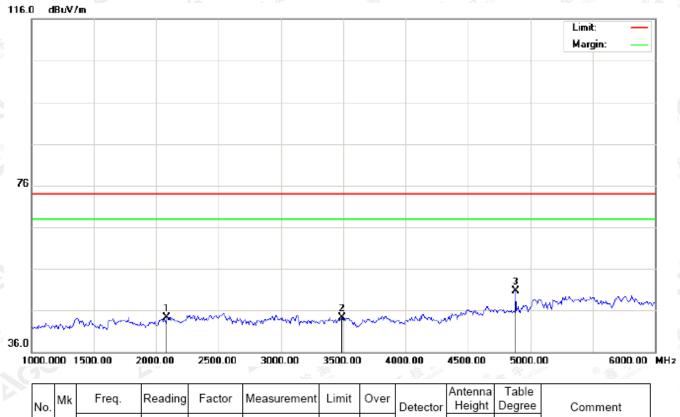
**RESULT: PASS** 

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



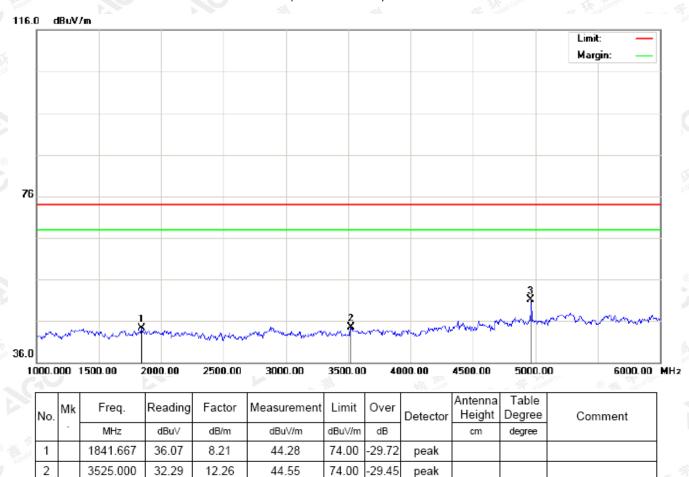
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ś.	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2083.333	34.28	9.97	44.25	74.00	-29.75	peak			
2		3491.667	32.15	12.10	44.25	74.00	-29.75	peak			
3	*	4882.000	42.89	7.89	50.78	74.00	-23.22	peak			

**RESULT: PASS** 



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



74.00

-22.81

peak

**RESULT: PASS** 

4960.000

43.10

8.09

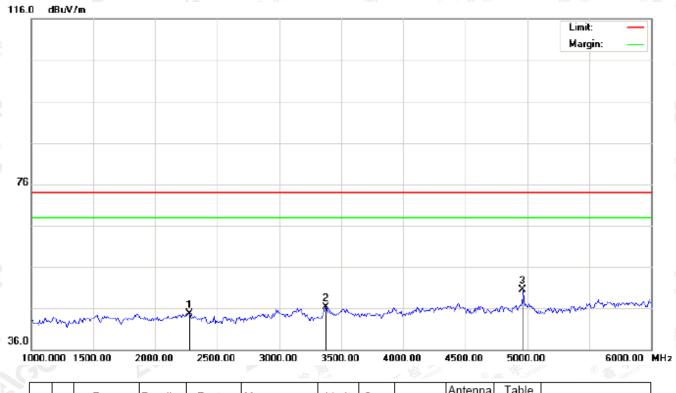
51.19

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2275.000	34.52	10.18	44.70	74.00	-29.30	peak			
2		3375.000	34.29	11.99	46.28	74.00	-27.72	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

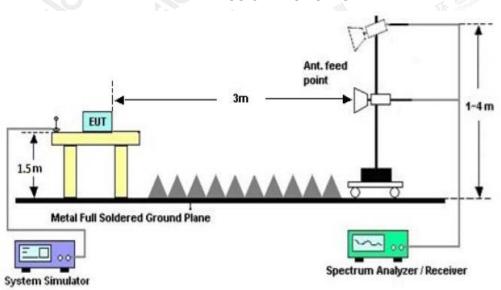
### 10.1. MEASUREMENT PROCEDURE

- 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.

Start frequency(MHz)				Stop frequency(MHz)			
	2200	Kimplence	The Committee	® A station of G	2405	100	
(S) ### (1)	2478	3lobal C	Autostation of Glob	-,0 "	2500		

#### **10.2 TEST SETUP**

## RADIATED EMISSION TEST SETUP



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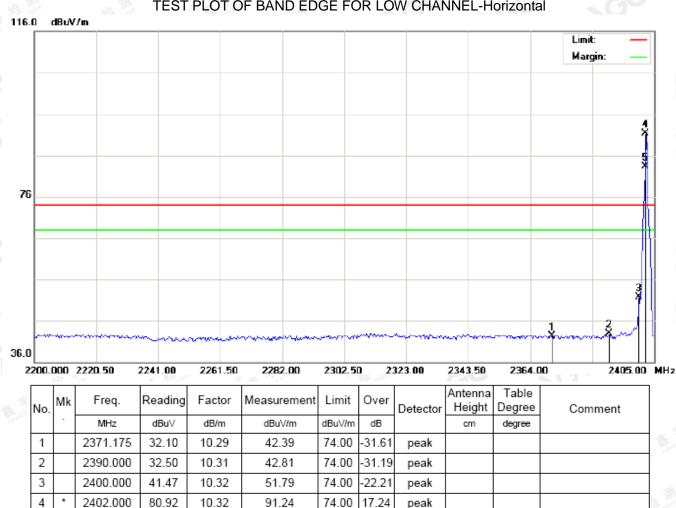


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## **10.3 RADIATED TEST RESULT**

(Worst modulation: π /4-DQPSK)

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



74.00

9.24

AVG

100

253

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2402.000

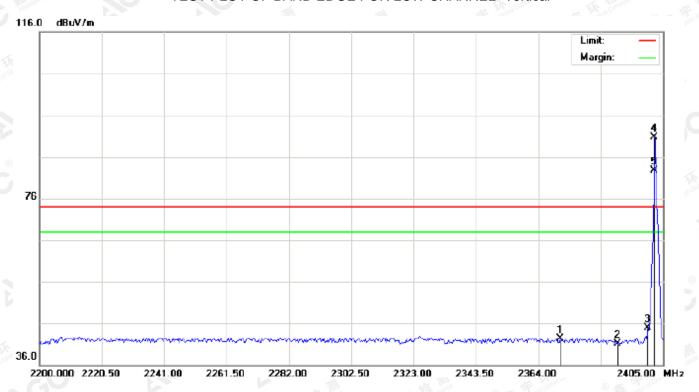
10.32

83.24



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



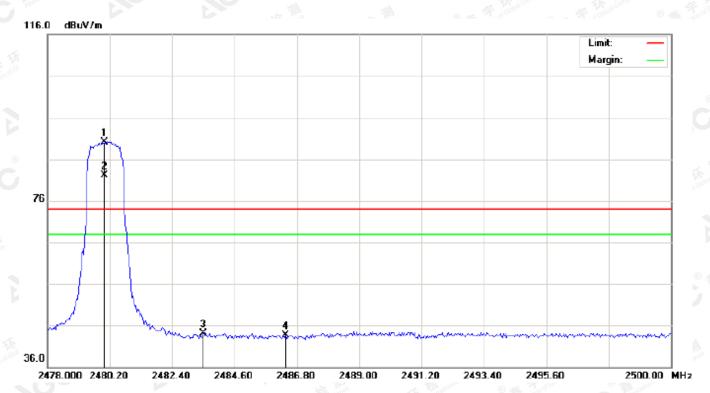
N	۷o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
3	1		2371.175	32.08	10.29	42.37	74.00	-31.63	peak			
Γ	2		2390.000	30.71	10.31	41.02	74.00	-32.98	peak			
	3		2400.000	34.56	10.32	44.88	74.00	-29.12	peak			
Γ	4	*	2402.000	80.44	10.32	90.76	74.00	16.76	peak			
	5	Х	2402.000	72.45	10.32	82.77	74.00	8.77	AVG	100	149	

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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



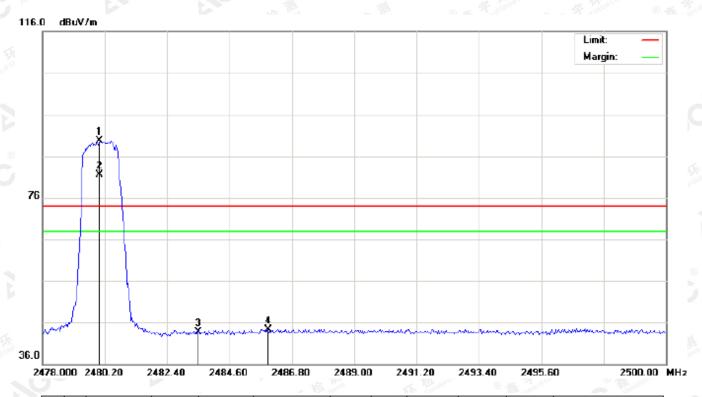
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
(2)	1	*	2480.000	79.62	10.41	90.03	74.00	16.03	peak			
	2	Х	2480.000	71.70	10.41	82.11	74.00	8.11	AVG	100	261	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2486.396	33.36	10.41	43.77	74.00	-30.23	peak			

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ă		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
a <sup>i</sup>	1	*	2480.000	79.21	10.41	89.62	74.00	15.62	peak			
	2	Х	2480.000	71.19	10.41	81.60	74.00	7.60	AVG	100	134	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2485.957	33.98	10.41	44.39	74.00	-29.61	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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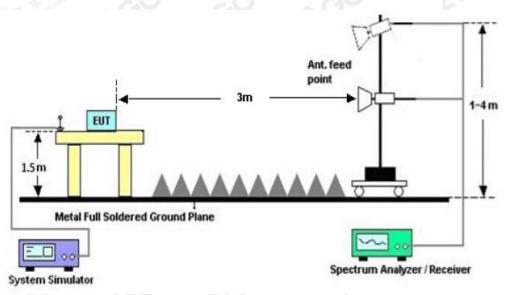
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## 11. 20DB BANDWIDTH

### 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 ≥ 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



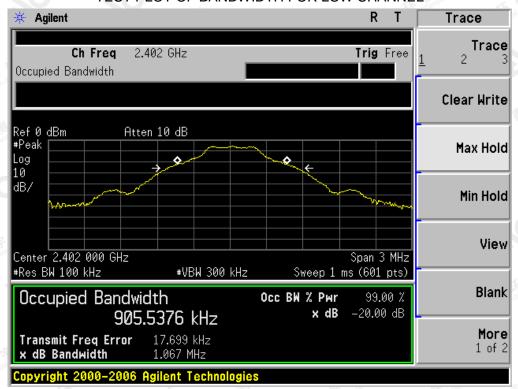
### 11.3. LIMITS AND MEASUREMENT RESULTS

		VD: " >0		000							
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT											
	Measurement Result										
Applicable Limits											
	99%OBV		-20dB BW(MHz)	Result							
The State of the Company	Low Channel	0.906	1.067	PASS							
N/A	Middle Channel	0.900	1.068	PASS							
NO NO	High Channel	0.908	1.042	PASS							

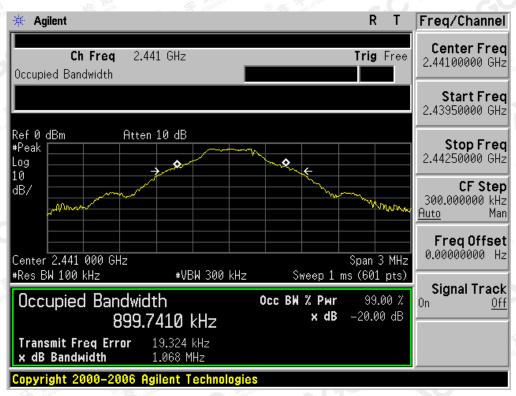
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### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

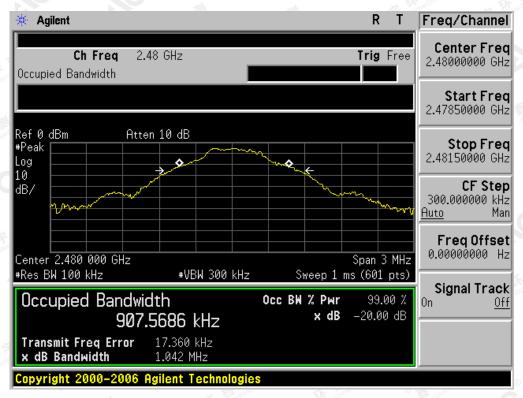


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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



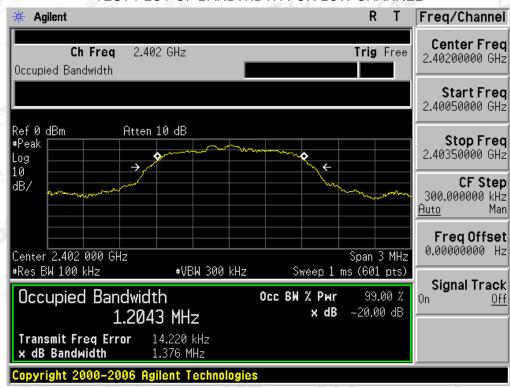
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		D 11								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
TA TELEMENT	Low Channel	1.204	1.376	PASS						
N/A	Middle Channel	1.200	1.344	PASS						
GC "	High Channel	1.203	1.359	PASS						

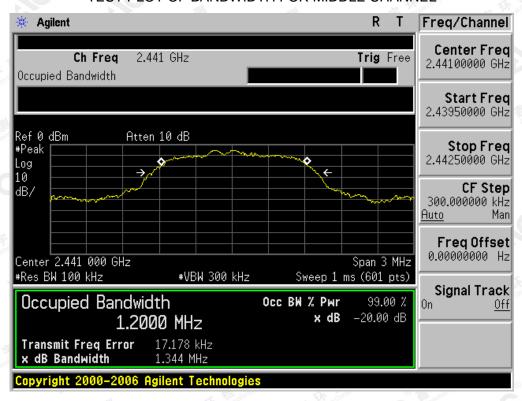
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



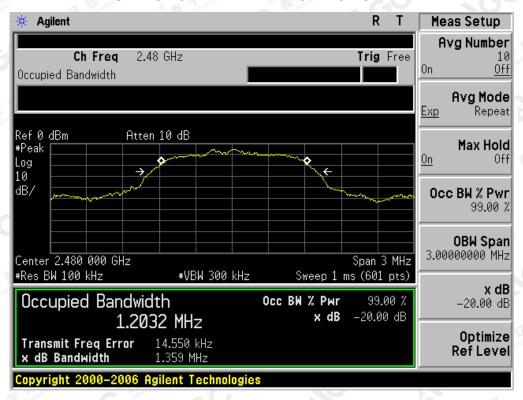
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 12. FCC LINE CONDUCTED EMISSION TEST

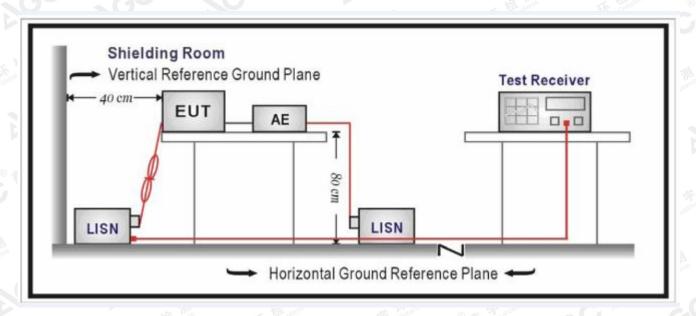
## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

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

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

### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

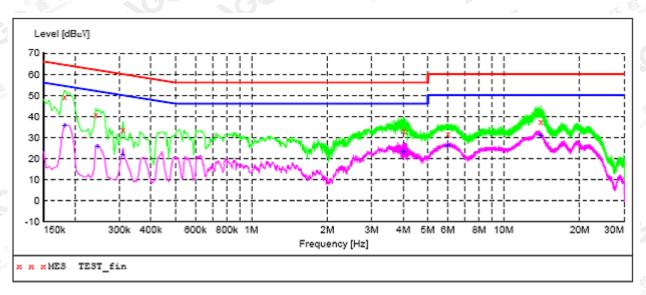
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### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

### By adapter(worst case)

### Line Conducted Emission Test Line 1-L



#### *MEASUREMENT RESULT: "TEST fin"*

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000 0.242000 0.310000 4.014000 6.010000 14.022000	49.20 40.80 33.70 33.00 31.90 37.50	10.0 10.1 10.1 10.1 10.3 9.5	64 62 60 56 60	15.2 21.2 26.3 23.0 28.1 22.5	QP QP QP QP QP QP	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

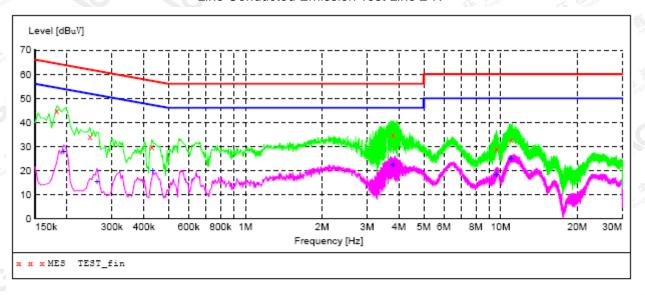
#### MEASUREMENT RESULT: "TEST fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000 0.246000 0.310000 4.014000 6.006000 14.026000	35.50 25.50 21.90 23.20 26.20 30.70	10.0 10.1 10.1 10.1 10.3 9.5	54 52 50 46 50		AV AV AV AV AV	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

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### Line Conducted Emission Test Line 2-N



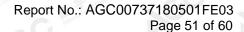
## MEASUREMENT RESULT: "TEST fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000 0.246000 0.430000 3.790000 9.638000 11.018000	44.70 34.10 29.70 34.80 28.90 32.70	10.0 10.1 10.1 10.1 9.8 9.6	64 62 57 56 60 60	19.7 27.8 27.6 21.2 31.1 27.3	QP	N N N N N	FLO FLO FLO FLO FLO

### MEASUREMENT RESULT: "TEST fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.194000	28.00	10.1	54	25.9	AV	N	FLO
0.262000	15.30	10.1	51	36.1	AV	N	FLO
0.434000	19.90	10.1	47	27.3	AV	N	FLO
3.790000	22.50	10.1	46	23.5	AV	N	FLO
9.638000	18.40	9.8	50	31.6	AV	N	FLO
11.018000	25.00	9.6	50	25.0	AV	N	FLO

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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



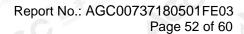
FCC RADIATED EMISSION TEST SETUP



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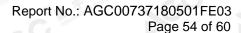
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## **APPENDIX B: PHOTOGRAPHS OF EUT**

ALL VIEW OF EUT



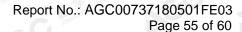
TOP VIEW OF EUT



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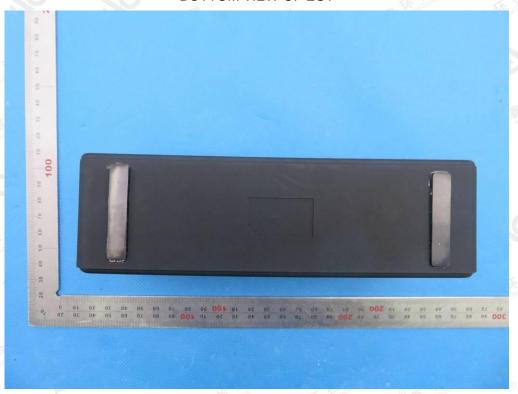
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# **BOTTOM VIEW OF EUT**



FRONT VIEW OF EUT



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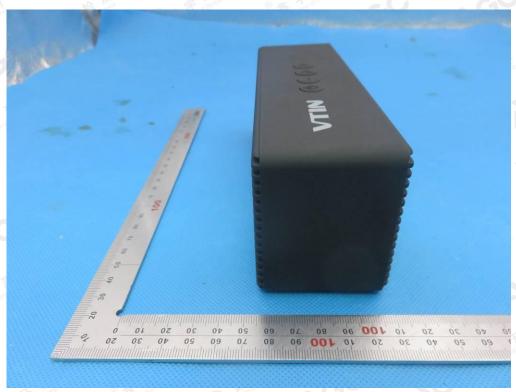
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# **BACK VIEW OF EUT**



**LEFT VIEW OF EUT** 



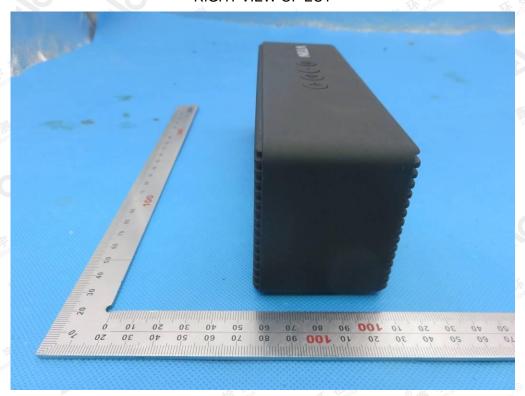
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# RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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## **OPEN VIEW OF EUT**



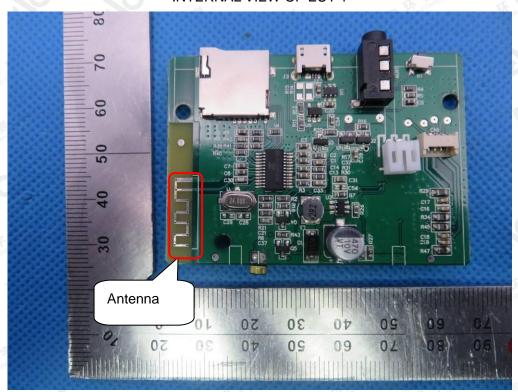
VIEW OF BATTERY



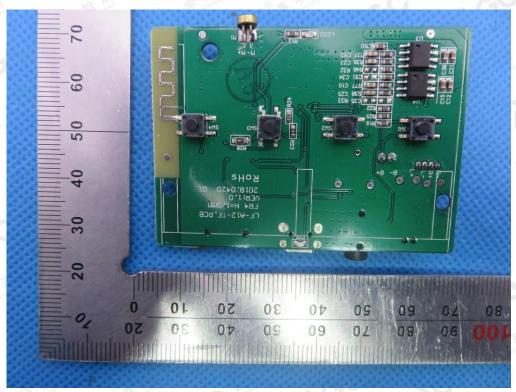
The results spowd this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the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



# **INTERNAL VIEW OF EUT-1**



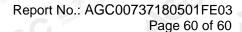
### **INTERNAL VIEW OF EUT-2**



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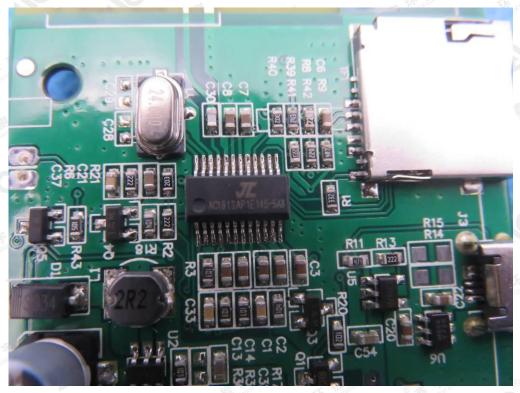
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# **INTERNAL VIEW OF EUT-3**



VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

## ----END OF REPORT----

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