

# **FCC Test Report**

Report No.: AGC00737180609FE03

**FCC ID** : 2AMH2-BH146A

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: BLUETOOTH HEADSET

**BRAND NAME** : MPOW

MODEL NAME : BH146A

**CLIENT**: MPOW TECHNOLOGY CO.,LIMITED

**DATE OF ISSUE** : July 09, 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

#### **CAUTION:**

This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.



The results spowed this jest eport 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 a transfer o

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



Page 2 of 62

## **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		July 09, 2018	Valid	Initial release



## 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 SYSTEM5.2. EQUIPMENT USED IN EUT SYSTEM5.3. SUMMARY OF TEST RESULTS	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 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	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. DUOTOCDADUS OF FUT	5.4



age 4 of 62

#### 1. VERIFICATION OF CONFORMITY

Applicant	MPOW TECHNOLOGY CO.,LIMITED
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA
Manufacturer	MPOW TECHNOLOGY CO.,LIMITED
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA
Product Designation	BLUETOOTH HEADSET
Brand Name	MPOW
Test Model	BH146A
Date of test	June 21, 2018 to June 30, 2018
Deviation	None San
Condition of Test Sample	Normal Normal State of the Stat
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	Jordier Wand	
A THE STATE OF THE	Jonhen Wang(Wang Yonghuan)	June 30, 2018
Reviewed By	and change	起那.
	Cool Cheng(Cheng Mengguo)	July 09, 2018
Approved By	Lowest ce	The Secondarios
	Forrest Lei(Lei Yonggang)  Authorized Officer	July 09, 2018

The results spoured 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 XCC, 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 a true www.agc.gett.com.



#### 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	V4.1
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	Ver1.32
Software Version	V1.0
Antenna Designation	Ceramic Antenna
Antenna Gain	1.5dBi
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 isn'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	



Page 6 of 62

#### 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%.

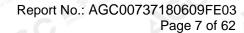
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

#### 4. DESCRIPTION OF TEST MODES

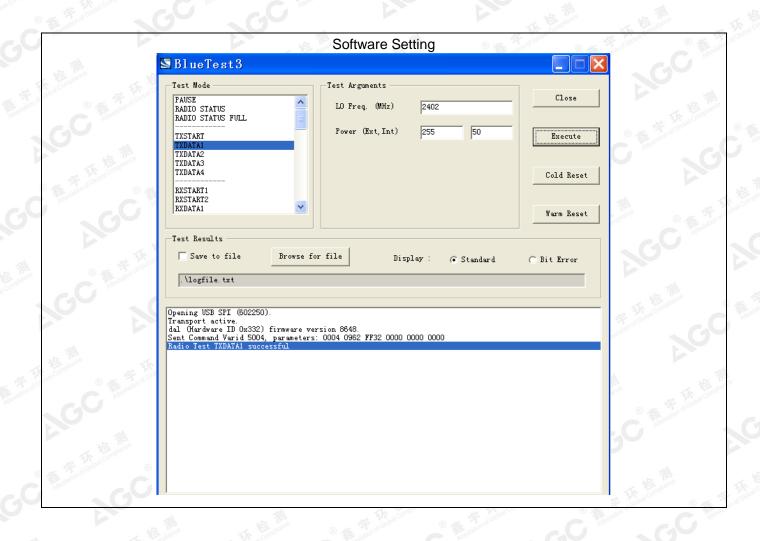
NO.	TEST MODE DESCRIPTION
1 K to companie	Low channel GFSK
© 2 2 · · · · · · · · · · · · · · · · ·	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5 K 1000000	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
The state of the s	High channel 8DPSK
10	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.







The results spound 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 XGC, 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 a true www.agc-gett.com.



Page 8 of 62

## 5. SYSTEM TEST CONFIGURATION

#### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			KI.	-
EUT	Stations	Control box		PC

#### 5.2. EQUIPMENT USED IN EUT SYSTEM

3.Z. EQU	DIFINIENT OSED IN EUT STSTE	= IVI		
Item	Equipment	Mfr/Brand	Model/Type No.	Remark
10	BLUETOOTH HEADSET	MPOW	BH146A	EUT
2	Battery	CEL	752838	Accessory
3	PC PC	APPLE	A1465	A.E
4	Control box	CSR	USB_SPI_TOOLS	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	AUX IN Cable	N/A	1m unshielded	A.E
7 🔞 🗸	Mobile phone	HUAWEI	V9	A.E



Page 9 of 62

#### 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.



Page 10 of 62

#### 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			



age 11 of 62

#### 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**

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



Page 12 of 62

#### 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)				
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.



Page 13 of 62

#### 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)

The results spound 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 XCC, 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 attp://www.ago.go.tt.com.

Attestation of Global Compliance

GC



Page 14 of 62

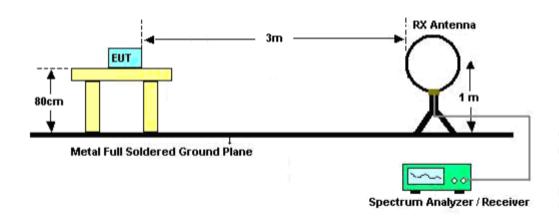
The following table is the setting of spectrum analyzer and receiver.

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

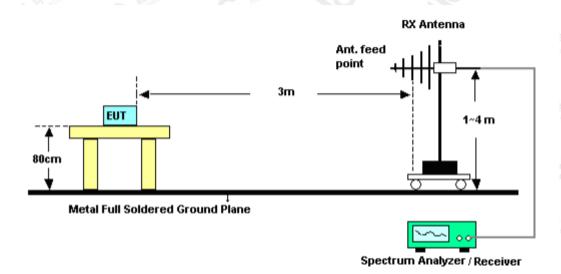


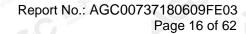
#### 9.3. TEST SETUP

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



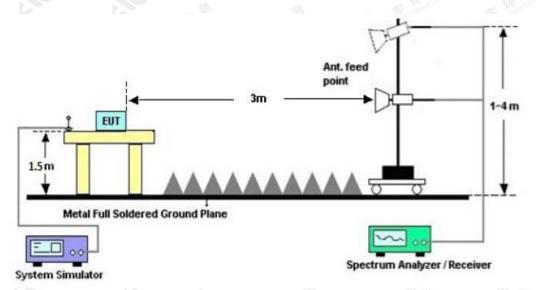
#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz







#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz





age 17 of 62

#### 9.4. TEST RESULT

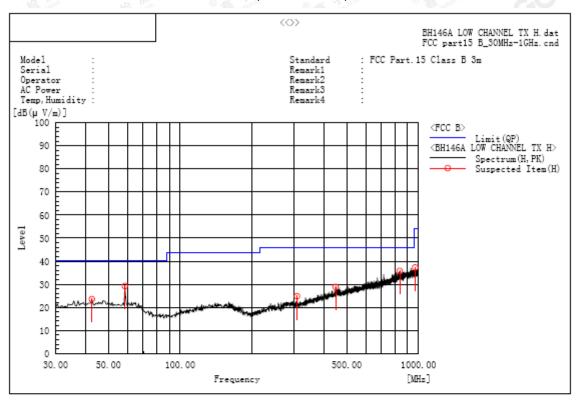
(Worst modulation: GFSK)

#### **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



#### A. Suspected List:

1	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
	42.610	H	6.2	17.4	23.6	40.0	16.4	Pass	100.0	344.2
	58.615	Н	12.8	16.4	29.2	40.0	10.8	Pass	200.0	72.1
	309.360	Н	7.2	17.6	24.8	46.0	21.2	Pass	200.0	216.3
	449.040	Н	6.7	22.1	28.8	46.0	17.2	Pass	100.0	309.2
	834.130	Н	6.5	29.3	35.8	46.0	10.2	Pass	100.0	162.2
	968.475	Н	6.5	30.8	37.3	54.0	16.7	Pass	100.0	308.7

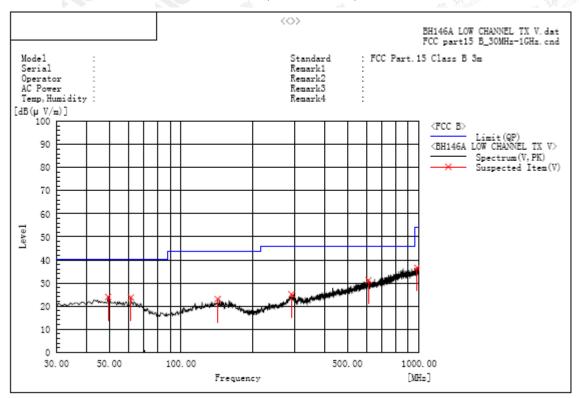
**RESULT: PASS** 

The results spound 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 XCC, 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 a true www.ago.gent.com.

**IGC** 8



#### 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	Margin dB	Pass/Fail	Height cm	Angle deg
	49.400	V	6.9	17.1	24.0	40.0	16.0	Pass	150.0	70.7
	61.525	V	7.7	16.0	23.7	40.0	16.3	Pass	200.0	120.9
	142.520	V	6.4	16.6	23.0	43.5	20.5	Pass	200.0	268.1
	290.930	V	7.6	17.6	25.2	46.0	20.8	Pass	200.0	268.1
3	613.455	V	6.0	25.2	31.2	46.0	14.8	Pass	100.0	70.7
	982.055	V	5.6	31.0	36.6	54.0	17.4	Pass	100.0	214.9

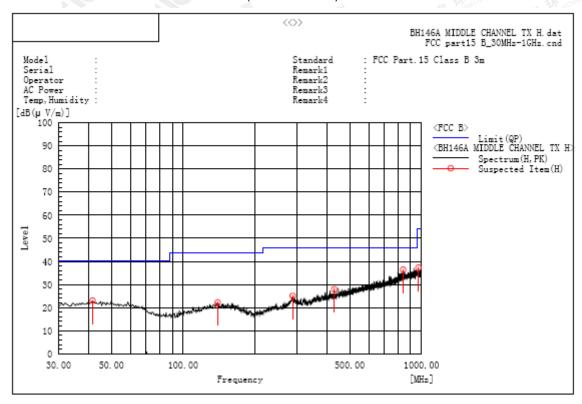
#### **RESULT: PASS**

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

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



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



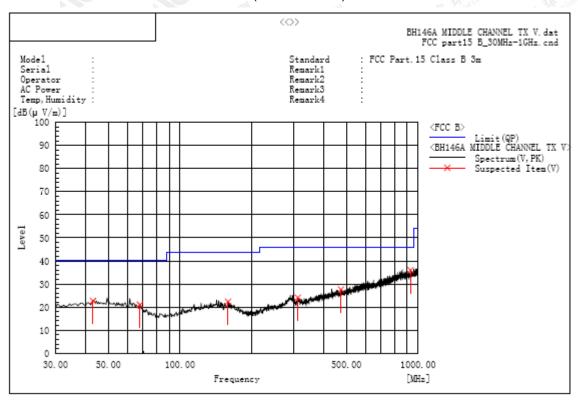
#### A. Suspected List:

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
41.640	H	5.6	17.4	23.0	40.0	17.0	Pass	100.0	65.1
139.610	Н	5.7	16.6	22.3	43.5	21.2	Pass	150.0	178.7
288.020	Н	7.5	17.6	25.1	46.0	20.9	Pass	150.0	72.3
430.610	Н	6.2	21.7	27.9	46.0	18.1	Pass	150.0	72.3
837.525	837.525 H		29.4	36.4	46.0	9.6	Pass	150.0	178.7
970.900	Н	6.5	30.8	37.3	54.0	16.7	Pass	200.0	249.4

**RESULT: PASS** 



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



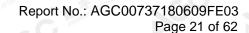
#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
43.095	V	5.3	17.4	22.7	40.0	17.3	Pass	150.0	214.2
67.830	V	6.1	15.0	21.1	40.0	18.9	Pass	200.0	194.4
159.010	V	5.8	16.6	22.4	43.5	21.1	Pass	200.0	268.1
312.270	V	6.5	17.6	24.1	46.0	21.9	Pass	200.0	85.9
474.260	v	5.1	22.5	27.6	46.0	18.4	Pass	200.0	339.3
929.190	V	5.5	30.5	36.0	46.0	10.0	Pass	200.0	339.3

#### **RESULT: PASS**

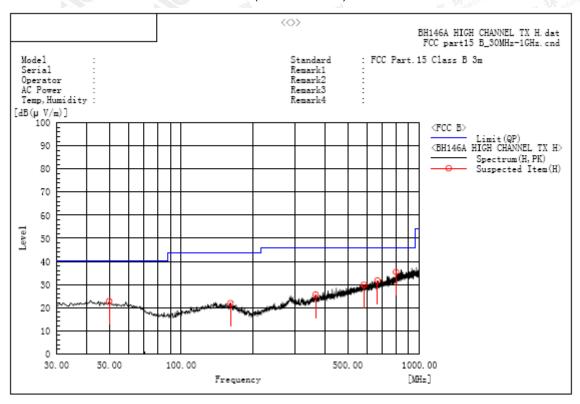
**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



#### A. Suspected List:

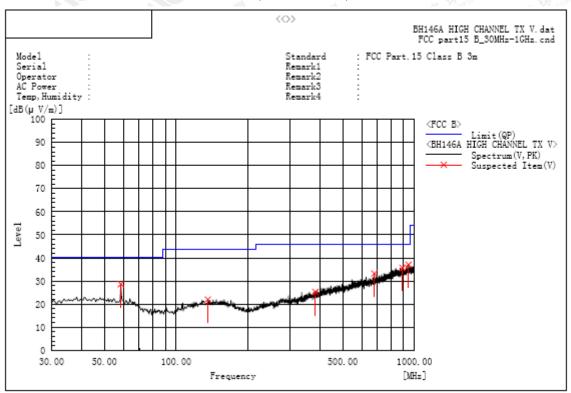
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
49.885	Н	5.7	17.1	22.8	40.0	17.2	Pass	150.0	143.0
160.950	Н	5.3	16.6	21.9	43.5	21.6	Pass	100.0	182.7
366.590	Н	6.0	19.6	25.6	46.0	20.4	Pass	100.0	27.3
584.355	Н	5.3	24.6	29.9	46.0	16.1	Pass	100.0	342.3
666.805	666.805 H		25.8	31.7	46.0	14.3	Pass	200.0	107.3
796.785	Н	6.7	28.7	35.4	46.0	10.6	Pass	200.0	71.6

**RESULT: PASS** 



Page 22 of 62

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



#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	I dB [ dB/H\//m) [ dB/H\//m) [		Margin dB	Pass/Fail	Height cm	Angle deg	
58.615	V	12.3	16.4	28.7	40.0	11.3	Pass	200.0	246.3
135.730	v	5.4	16.6	22.0	43.5	21.5	Pass	100.0	142.1
384.050	V	5.1	20.2	25.3	46.0	20.7	Pass	150.0	108.5
678.445	V	7.3	26.0	33.3	46.0	12.7	Pass	100.0	249.2
889.905	v	5.6	30.1	35.7	46.0	10.3	Pass	200.0	277.3
944.710	v	6.5	30.6	37.1	46.0	8.9	Pass	100.0	249.2

#### **RESULT: PASS**

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

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



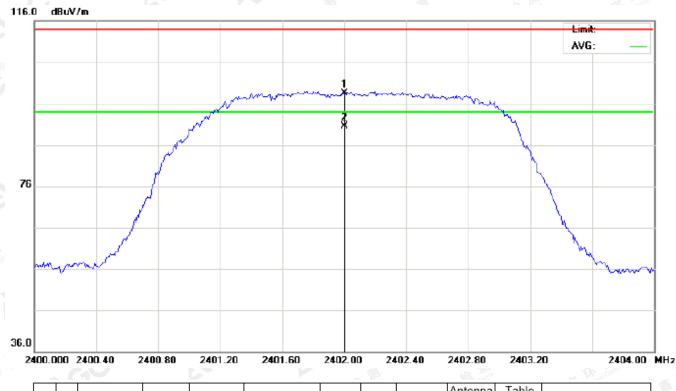
Page 23 of 62

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

(Worst modulation: GFSK)

#### For Fundamental

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



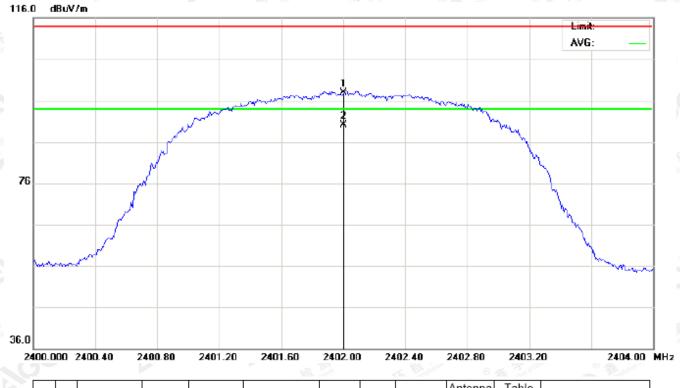
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	88.11	10.32	98.43	114.00	-15.57	peak			
2	*	2402.000	80.19	10.32	90.51	94.00	-3.49	AVG	100	33	

RESULT: PASS



Page 24 of 62

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ŝ		- [	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
111	1		2402.000	87.64	10.32	97.96	114.00	-16.04	peak			
	2	*	2402.000	79.71	10.32	90.03	94.00	-3.97	AVG	100	259	

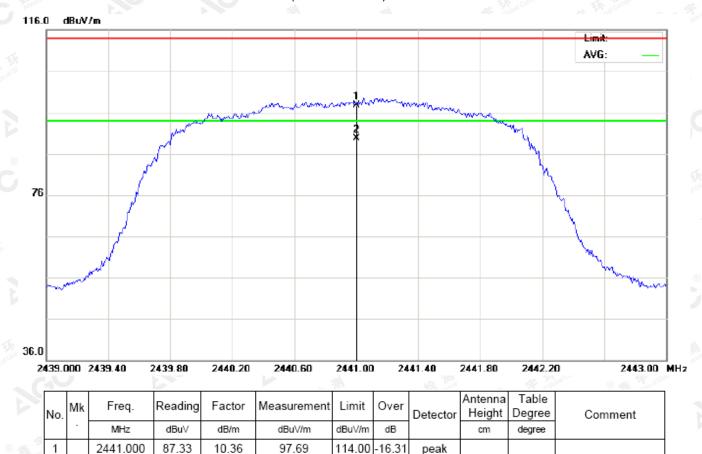
**RESULT: PASS** 

The results showed 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 attp://www.agc.gent.com.



Page 25 of 62

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



94.00

AVG

100

**RESULT: PASS** 

2441.000

79.39

10.36

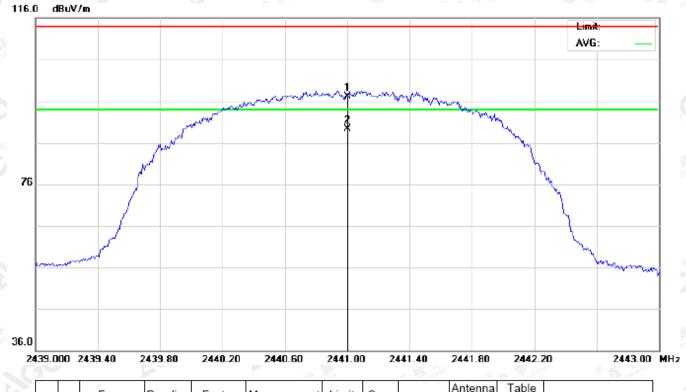
89.75

The results spowed 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 attp://www.agc-gett.com.



Page 26 of 62

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



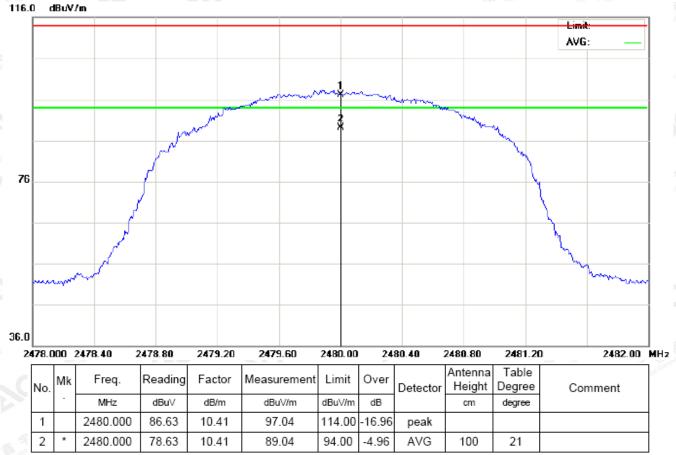
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	86.83	10.36	97.19	114.00	-16.81	peak			
2	*	2441.000	78.93	10.36	89.29	94.00	-4.71	AVG	100	264	

**RESULT: PASS** 



Page 27 of 62

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



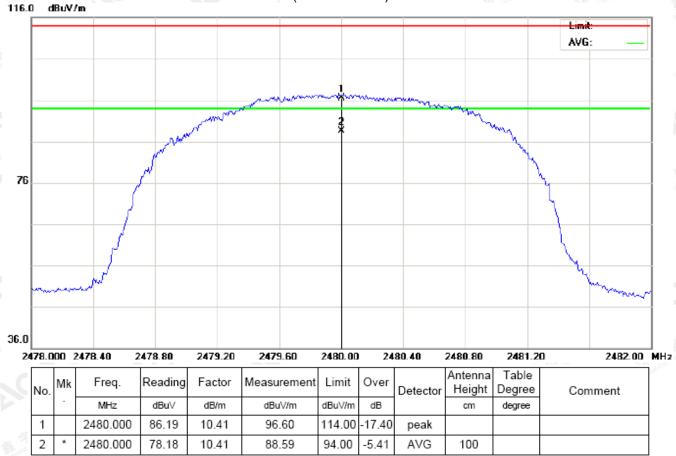
**RESULT: PASS** 

The results spoured 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 XOC, 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 attp://www.ago.go.tt.com.



Page 28 of 62

#### 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.



Page 29 of 62

## Field strength of the fundamental signal

#### 1Mbps Result:

#### Peak value

Frequency	Reading Level	- I Factor I Measi		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	88.11	10.32	98.43	114	-15.57	Horizontal	
2402	87.64	10.32		114	-16.04 -16.31	Vertical Horizontal	
2441	87.33	10.36					
2441	1 86.83		97.19	114	-16.81	Vertical	
2480	86.63	10.41	97.04	114	-16.96	Horizontal	
2480	86.19	10.41	96.60	114	-17.40	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	80.19	10.32	90.51	94	-3.49	Horizontal	
2402	79.71	10.32	90.03	94 94 94	-3.97	Vertical	
2441	79.39	10.36	89.75		-4.25	Horizontal Vertical	
2441	78.93	10.36	89.29		-4.71		
2480	78.63	10.41	89.04	94	-4.96	Horizontal	
2480	78.18	10.41	88.59	94	-5.41	Vertical	



Page 30 of 62

#### 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor Measurement		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	87.77	10.32	98.09	114	-15.91	Horizontal	
2402	87.29	10.32	97.61	114	-16.39 -16.74	Vertical Horizontal	
2441	86.90	10.36 97.26	97.26				
2441	2441     86.50     10.36       2480     86.21     10.41		96.86	114	-17.14	Vertical Horizontal	
2480			96.62	114	-17.38		
2480	85.81	10.41	96.22	114	-17.78	Vertical	

#### Average value

Frequency	Reading Level	Factor Measurement		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.79	10.32	90.11	94	-3.89	Horizontal	
2402	79.37	10.32	89.69	94	-4.31	Vertical	
2441	78.98	10.36	89.34	94	-4.66	Horizontal	
2441	78.58	10.36	88.94	94	-5.06	Vertical	
2480	78.29	10.41	10.41 88.70		-5.30	Horizontal	
2480	77.71	10.41	88.12	94	-5.88	Vertical	



Page 31 of 62

#### 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization Horizontal	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	87.29	10.32	97.61	114	-16.39		
2402	86.81	10.32	97.13	114	-16.87	Vertical Horizontal	
2441	86.48	10.36	96.84	114	-17.16		
2441	86.10	10.36	96.46	114	-17.54	Vertical	
2480	85.88	10.41	96.29	114	-17.71	Horizontal	
2480	85.43	10.41	95.84	114	-18.16	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.34	10.32	89.66	94	-4.34	Horizontal
2402	78.89	10.32 89.21		94	-4.79	Vertical
2441	78.57	10.36	88.93	94	-5.07	Horizontal
2441	78.22	10.36	88.58	94	-5.42	Vertical
2480	77.96	10.41	88.37	94	-5.63	Horizontal
2480	77.21	10.41	87.62	94	-6.38	Vertical

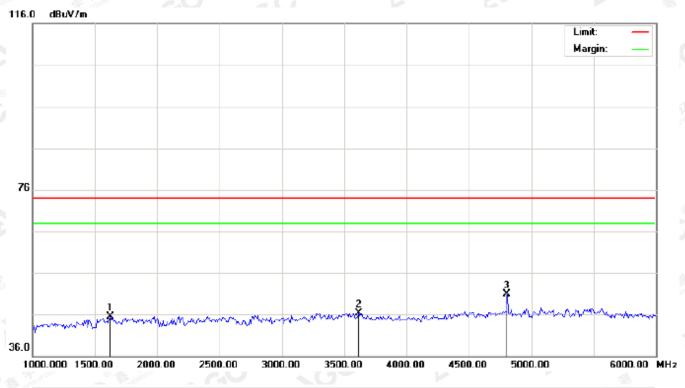


Page 32 of 62

#### (Worst modulation: GFSK)

#### **For Harmonics**

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



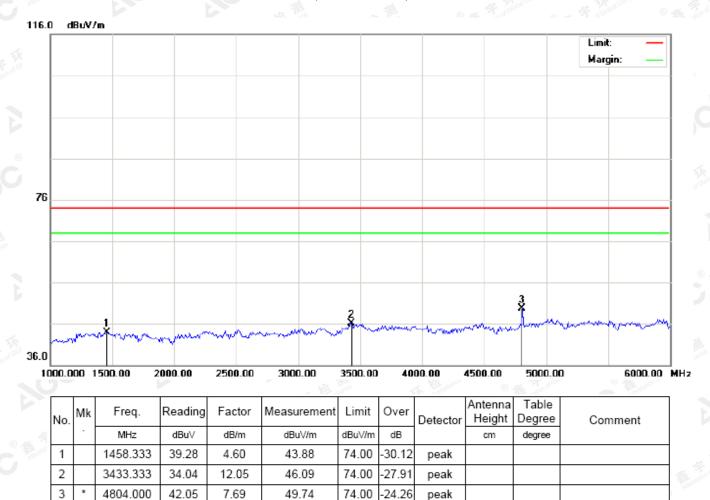
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		1625.000	39.58	5.94	45.52	74.00	-28.48	peak			
2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

**RESULT: PASS** 



Page 33 of 62

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



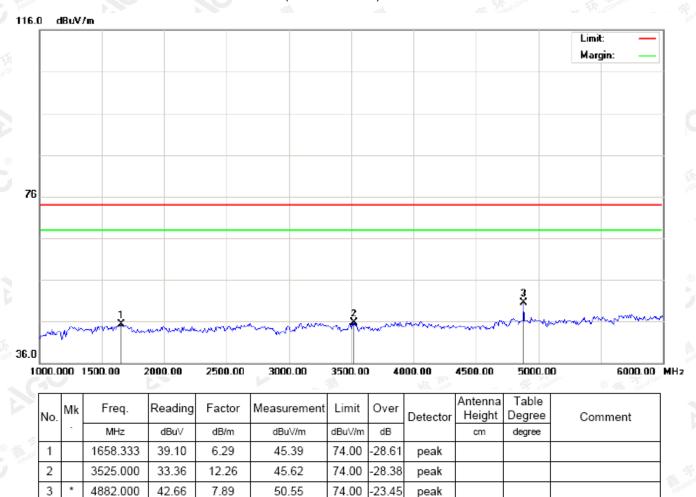
**RESULT: PASS** 

The results spoured 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 XOC, 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 attp://www.ago.go.tt.com.



Page 34 of 62

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



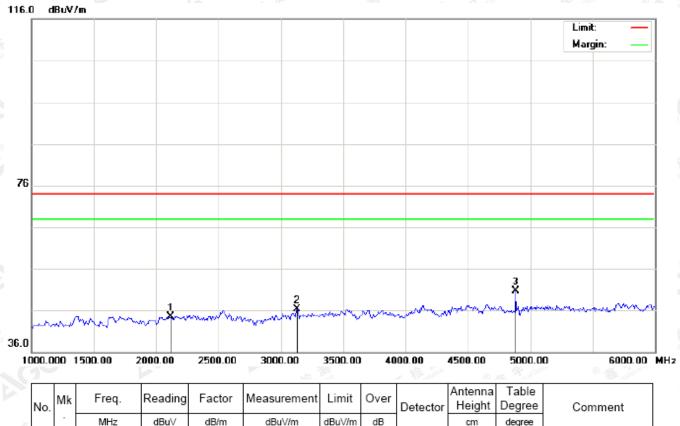
**RESULT: PASS** 

The results spoured 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 XOC, 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 attp://www.ago.go.tt.com.



Page 35 of 62

#### RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE 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		2116.667	34.56	10.01	44.57	74.00	-29.43	peak			
2		3133.333	34.54	11.77	46.31	74.00	-27.69	peak			
3	*	4882.000	42.89	7.89	50.78	74.00	-23.22	peak			

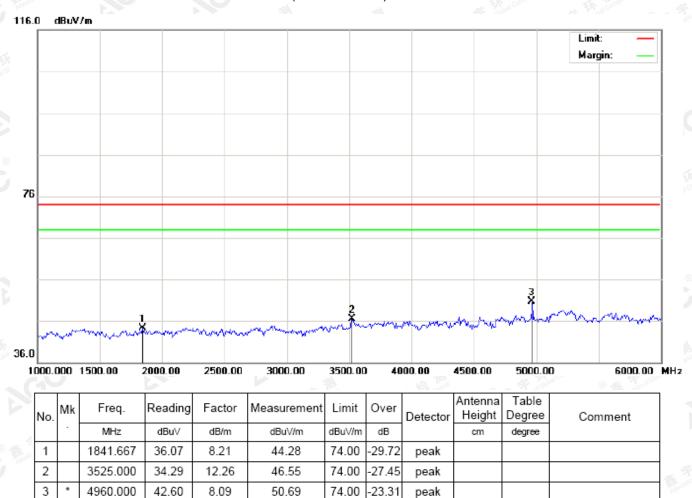
**RESULT: PASS** 

The results spoured 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 XOC, 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 attp://www.ago.go.tt.com.



Page 36 of 62

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



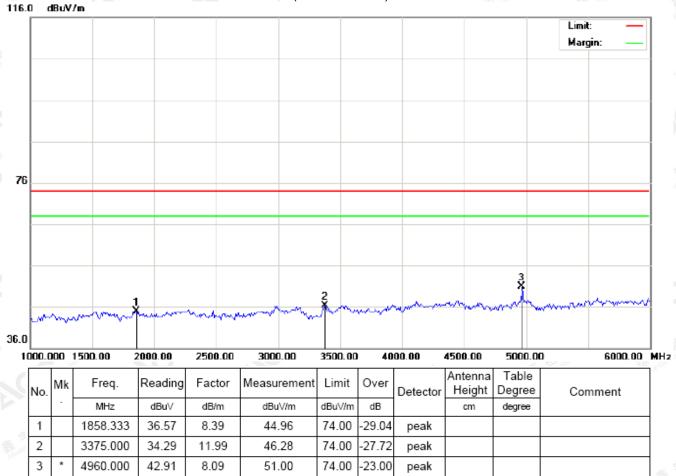
**RESULT: PASS** 

The results spoured 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 XOC, 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 attp://www.ago.go.tt.com.



Page 37 of 62

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



### **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.

The results spoured 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 XOC, 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 attp://www.ago.go.tt.com.



Page 38 of 62

### 10. BAND EDGE EMISSION

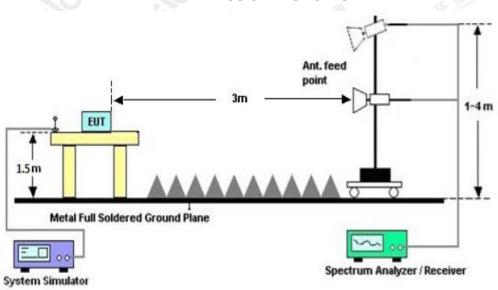
### 10.1. MEASUREMENT PROCEDURE

- 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



The results spowford 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 XOC, 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 attp://www.ago.go.tt.com.



Page 39 of 62

# **10.3 RADIATED TEST RESULT**

(Worst modulation: GFSK)

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



ò	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		2365.025	31.41	10.28	41.69	74.00	-32.31	peak			
	2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
	3		2400.000	41.47	10.32	51.79	74.00	-22.21	peak			
	4	*	2402.000	88.22	10.32	98.54	74.00	24.54	peak			
	5	Х	2402.000	80.24	10.32	90.56	74.00	16.56	AVG	100	31	

The results spoured 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 XOC, 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 attp://www.ago.go.tt.com.



Page 40 of 62

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



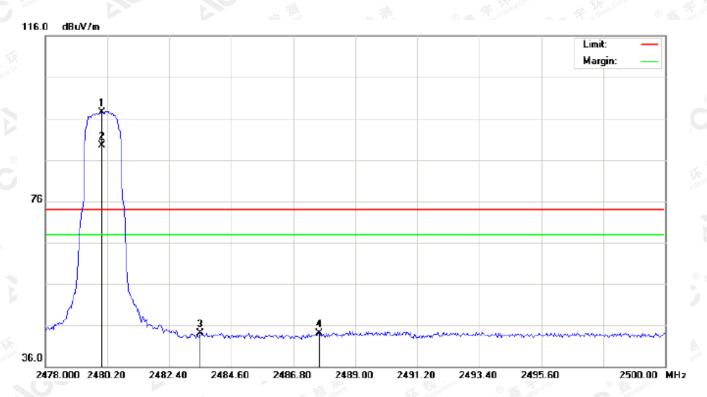
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2367.075	31.94	10.28	42.22	74.00	-31.78	peak			
2		2390.000	30.71	10.31	41.02	74.00	-32.98	peak			
3		2400.000	34.56	10.32	44.88	74.00	-29.12	peak			
4	*	2402.000	88.09	10.32	98.41	74.00	24.41	peak			
5	Х	2402.000	79.79	10.32	90.11	74.00	16.11	AVG	100		

The results showed 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 attp://www.agc.gett.com.



Page 41 of 62

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



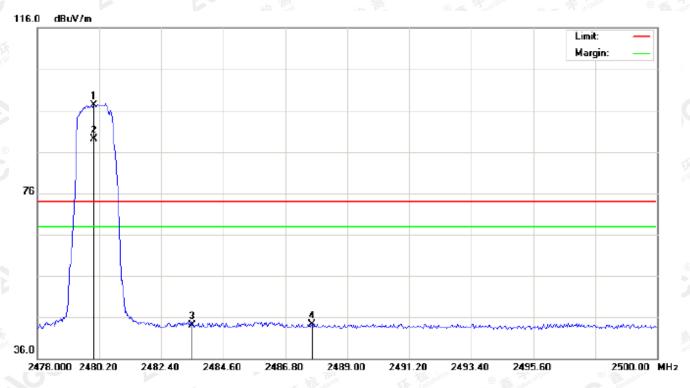
No	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
1		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
300	1	*	2480.000	87.05	10.41	97.46	74.00	23.46	peak			
	2	Х	2480.000	79.10	10.41	89.51	74.00	15.51	AVG	100	28	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2487.716	33.68	10.42	44.10	74.00	-29.90	peak			

The results spoured 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 attp://www.agc.go.tt.com.



Page 42 of 62

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



N	o. I	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
§		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
Ŷ.		*	2480.000	86.82	10.41	97.23	74.00	23.23	peak			
2	2	Х	2480.000	78.71	10.41	89.12	74.00	15.12	AVG	100	258	
3	3		2483.500	33.76	10.41	44.17	74.00	-29.83	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.

The results spound 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 XCC, 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 attp://www.ago.go.tt.com.



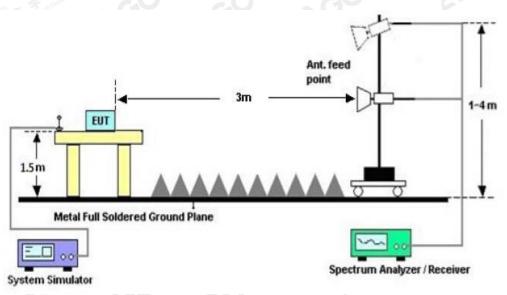
Page 43 of 62

## 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: " -6	alla.	0101						
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result							
Applicable Limits										
		99%OBW (MHz)	-20dB BW(MHz)	Result						
The Standard	Low Channel	0.933	1.098	PASS						
N/A	Middle Channel	0.933	1.088	PASS						
	High Channel	0.923	1.018	PASS						

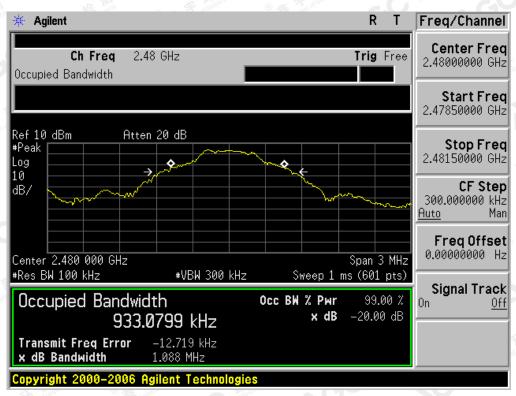
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



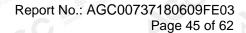
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



The results spowford 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 attp://www.agc.gent.com.

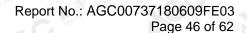




#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



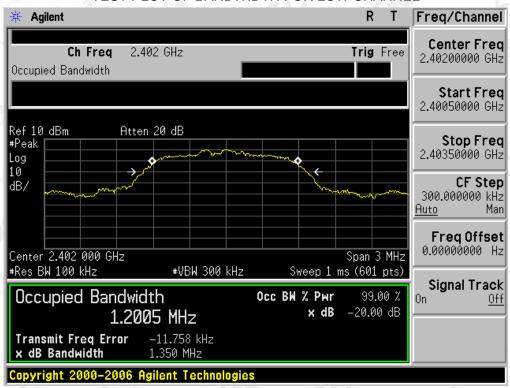
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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





BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT									
		Measure	ement Result						
Applicable Limits									
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The plants of the plants	Low Channel	1.201	1.350	PASS					
N/A	Middle Channel	1.219	1.361	PASS					
AGC **	High Channel	1.219	1.382	PASS					

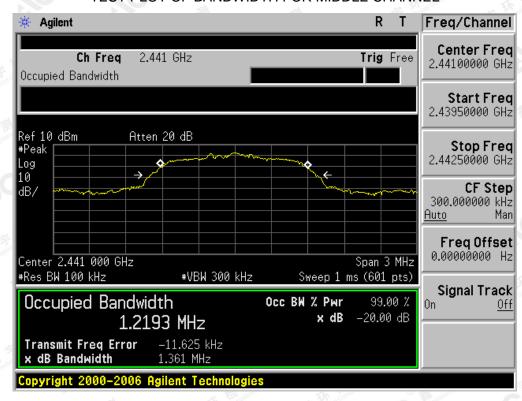
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



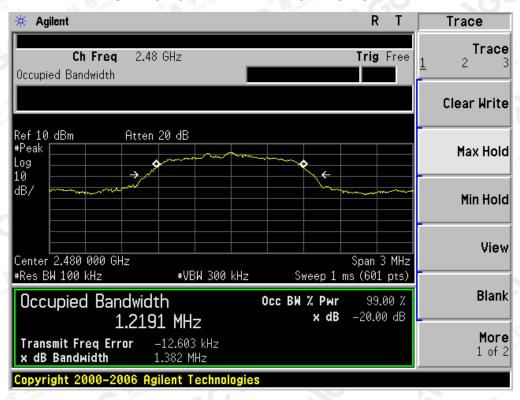
The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



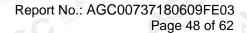
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



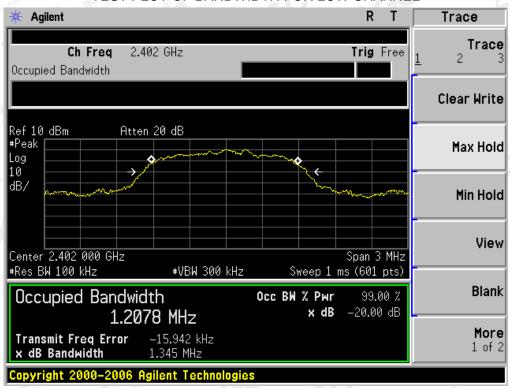
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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





DILIET	OCTU AMBRO LIA	AITC AND MEACH	DEMENT DECLIET						
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT									
		Measure	ement Result						
Applicable Limits		D							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
不 整 测	Low Channel	1.208	1.345	PASS					
N/A	Middle Channel	1.219	1.351	PASS					
COC "	High Channel	1.245	1.390	PASS					

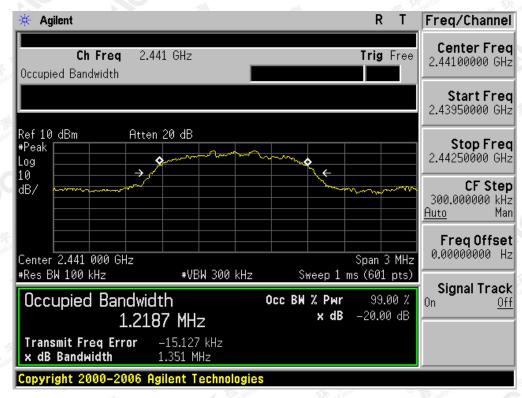
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



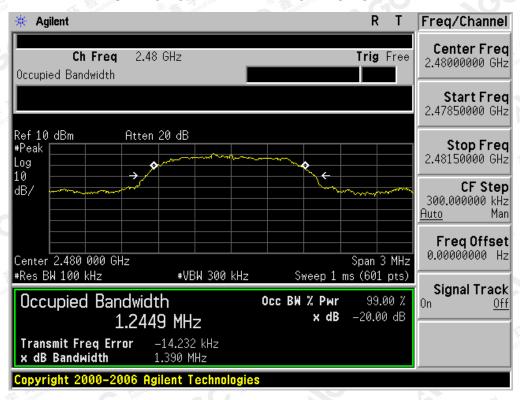
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



The results spowford 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 attp://www.agc.gent.com.



Page 50 of 62

## 12. FCC LINE CONDUCTED EMISSION TEST

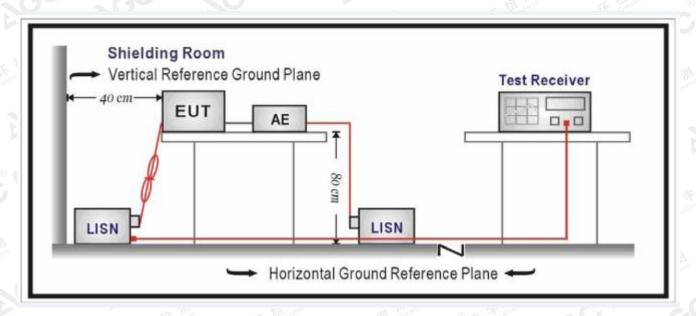
## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.( dBuV)	Average( dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	8 Age 12	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



The results spound 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 XCC, 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 attp://www.ago.go.tt.com.



Page 51 of 62

## 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

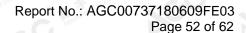
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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 isn't work when charging.

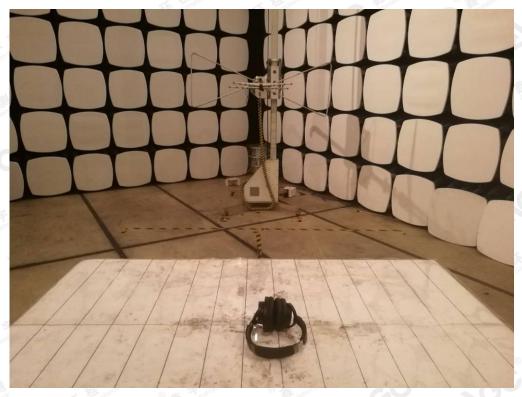
The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

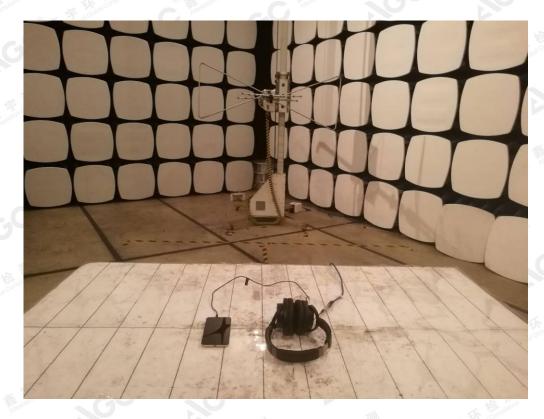




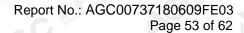
## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



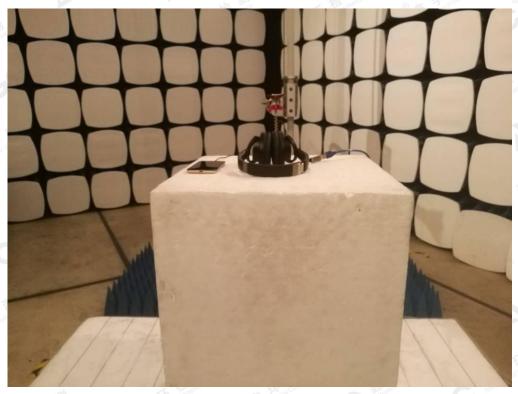


The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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









The results showed 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 attp://www.agc.gett.com.



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

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



The results spound 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 a true, I/www.agc-gett.com.

Attestation of Global Compliance



## FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



The results shown in 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 a true of the confirmed at a true of true of the confirmed at a true of the confirmed at a

Attestation of Global Compliance



## LEFT VIEW OF EUT



RIGHT VIEW OF EUT



The results shown 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 attp://www.agc.com.

Attestation of Global Compliance



# VIEW OF EUT (PORT)-1



VIEW OF EUT (PORT)-2



The results shown 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 attp://www.agc.com.

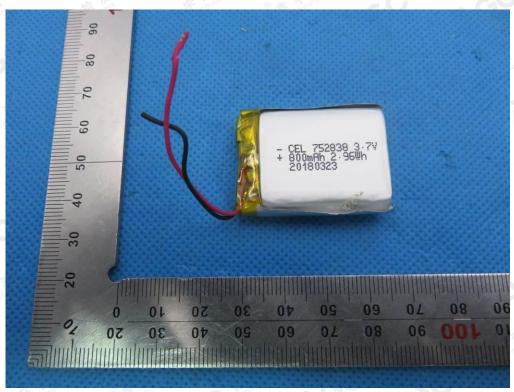
Attestation of Global Compliance



## **OPEN VIEW OF EUT**



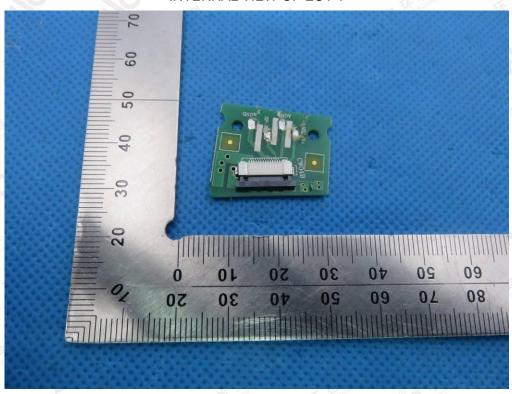
### VIEW OF BATTERY



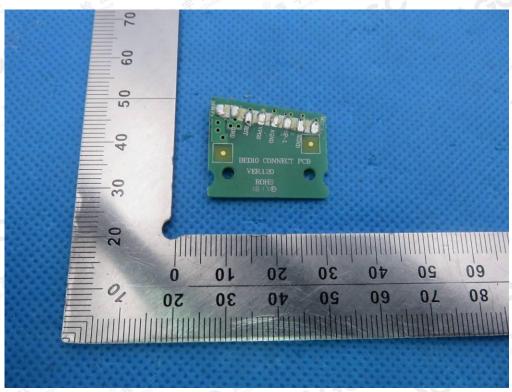
The results spowd this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the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

Attestation of Global Compliance





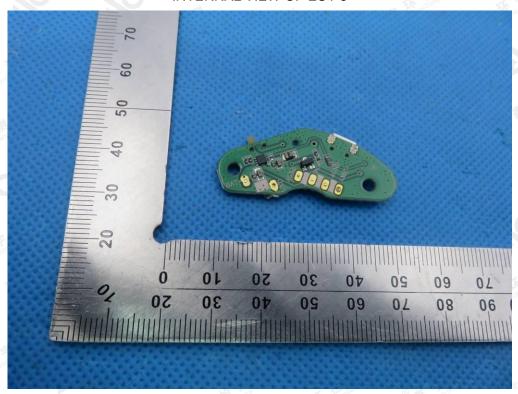
**INTERNAL VIEW OF EUT-2** 



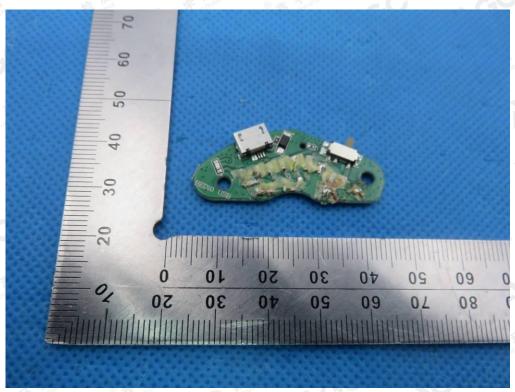
The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

Attestation of Global Compliance





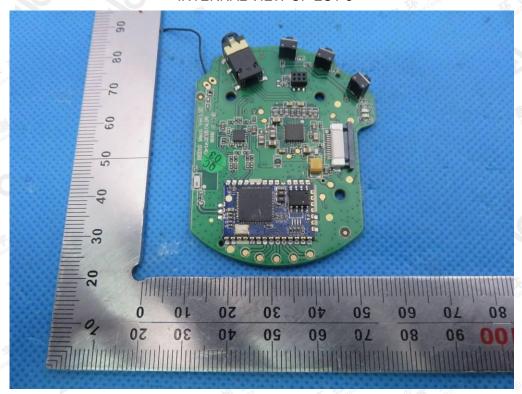
**INTERNAL VIEW OF EUT-4** 



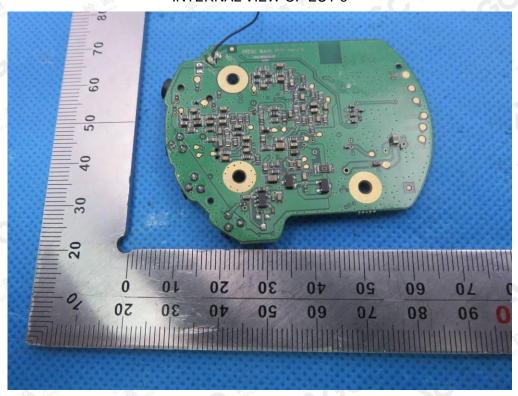
The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

Attestation of Global Compliance



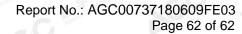


**INTERNAL VIEW OF EUT-6** 

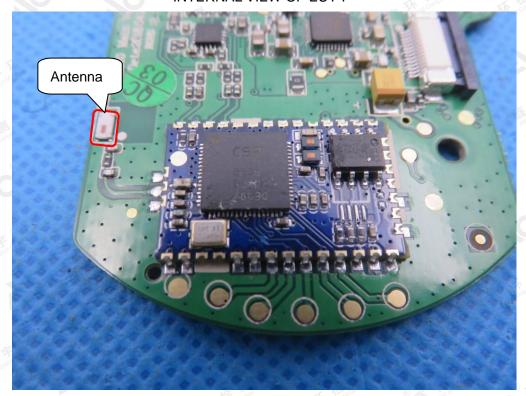


The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

Attestation of Global Compliance







----END OF REPORT----

The results showed 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 attp://www.agc-gett.com.

Attestation of Global Compliance