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FCC Test Report

Report No.: AGC04356180605FE03

FCC ID	: 2AJYS-YEVOA	IR	
APPLICATION PURPO	E : Original Equip	pment	
PRODUCT DESIGNATION	N : TRUE WIREL	ESS EARBUDS	
BRAND NAME	: YEVO		
MODEL NAME	: YEVO Air		
CLIENT	Happy Plugs A	AB	
DATE OF ISSUE	: Jun. 12, 2018		
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 S	Subpart C Section 15.249	
REPORT VERSION	: V1.0	The The Participant	
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Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun.12, 2018	Valid	Initial release

Report Revise Record

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APPENDIX B: PHOTOGRAPHS OF EUT

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1. VERIFICATION OF CONFORMITY

Applicant	Happy Plugs AB
Address	Kungsgatan 4B, ,1 tr,11143 Stockholm, Stockholm, Sweden
Manufacturer	GUANGZHOU U&I TECHNOLOGY COMPANY LIMITED
Address	4th Floor, 15th Building, Vtrek Innovation Industrial Park, No. 644 Shibei Road, Panyu District, Guangzhou, China
Product Designation	TRUE WIRELESS EARBUDS
Brand Name	YEVO
Test Model	YEVO Air
Date of test	Jun. 06, 2018 to Jun. 11, 2018
Deviation	None
Condition of Test Sample	Normal Contraction Contraction
Report Template	AGCRT-US-BR/RF

We hereby certify that:

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

Tested By

Harry Zhang

Henry Zhang(Zhang Zhuorui) Jun. 11, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jun. 12, 2018

west in

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 12, 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	1.82dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2 • • • • • • • • • • • • • • • • • • •
Modulation	BR ⊠GFSK, EDR ⊠π/4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V05
Software Version	V01
Antenna Designation	Fixed Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery

Note: 1. The BT function of EUT didn't work when charging

2. The EUT comprises left and right channel headsets, the PCB layout is the same, with several components missing from the left ear headset. Both have been tested, and only the test data of left headset recorded in this report.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
e C the second control of the second control	Samana CO	2402MHz
GC SC		2403MHz
The temperes 0 the storage	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
To the man	Hard Street	
C The state of the	77	2479 MHz
	78	2480 MHz

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3. MEASUREMENT UNCERTAINTY

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

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

		-mil	The participation	Allester
NO.		TEST MODE DESCRIPT	ION	
C The state of the	autor of Circles C	Low channel GFSK		
2	S	Middle channel GFSK	He and the	K Computere
3		High channel GFSK	and Come Bareston of C	3000
5 ¹ 4 15 ¹	C # Jond Const Con	Low channel π /4-DQPS	SK C	
8 5 June Course	10 × 00	Middle channel π /4-DQF	PSK	下版
6		High channel π /4-DQPS	SK 4 Starter	3 The station of Global
7	Anna Const	Low channel 8DPSK	Allest SC	
F J Thomas Contra 8 0 F Jones of		Middle channel 8DPS	<	11117
90		High channel 8DPSK	AF.	oal Compliance
10	and the second	BT Link	C Attestation of C	C BALLES

4. DESCRIPTION OF TEST MODES

Note:

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

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The EUT used fully-charged battery when tested.

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Airoha AB15 View Help	00 Family LAB T	est Tool – Vers	ion 1.4.11.0		
COM1	. 🔊 🔊 🗆				
	stal Trim Test Mode				
CTX_START	RF Freq.(MHz)	2402 🗘			
CTX_DATA	Tx GC	63	Write GC to EEPROM	(BR)	
BTX_PACKET	ix GC	05	Write GC to EEPROM	(EDR)	
	РКТ Туре	2-DH3 🗸			
	Data Type	PN sequence 🗸			
	Hopping on	Execute			
	C Specific Channel	Is Hopping by contino	us fixed channel switching-		
	Channels 15-0	111111111111111	11 Hopping Interval (n	ns) 10	
	Channels 31-16	111111111111111			
	Channels 47-32	111111111111111	Start specific ch	annels BTx	
	Channels 63-48	11111111111111			
	Channels 78-64	011111111111111	Stop		
4:43:22] BTx Pack 4:48:30] BTx Pack 4:48:59] BTx Pack 4:51:11] BTx Pack 4:52:02] BTx Pack	et Complete! et Complete! et Complete! et Complete!				
4:53:03] BTx Pack		, Parity: None, Handsh	nake: None Status	EEPROM E	rror: False, Pow
4:53:03] BTx Pack		, Parity: None, Handsh	nake: None Status	EEPROM E	Fror: False, Pow
4:53:03] BTx Pack		, Parity: None, Handsh	nake: None Status	EEPROM E	Frror: False, Pow
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4:53:03] BTx Pack		Parity: None, Handsh	nake: None Status		Frror: False, Pow
4:53:03] BTx Pack		Parity: None, Handsh	nake: None Status		Fror: False, Pow

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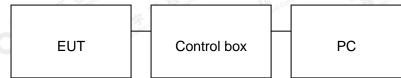
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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
	TRUE WIRELESS EARBUDS	YEVO	YEVO Air	CEUT
2	Battery	CEL	551213	Accessory
3	PC PC	APPLE	A1465	A.E
4	Control box	AIROHA	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	IPOD	APPLE	A1367	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	N/A
§15.215	Bandwidth	Compliant

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

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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 RADIATED EMISSION TEST

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

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics			
Frequency	(millivolts/meter)	(microvolts/meter)			
900-928MHz	50	500			
2400-2483.5MHz	50 6 6	500			
5725-5875MHz	50	500			
24.0-24.25GHz	250	2500			

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	E England Con Call
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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

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

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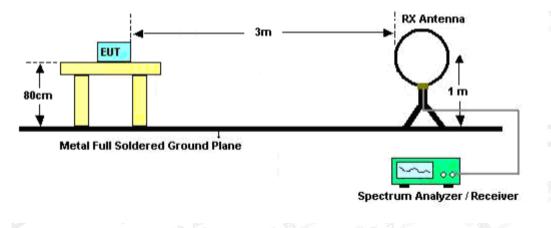




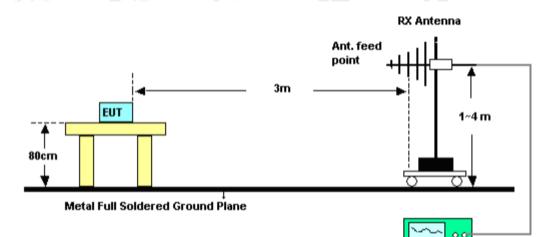
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9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



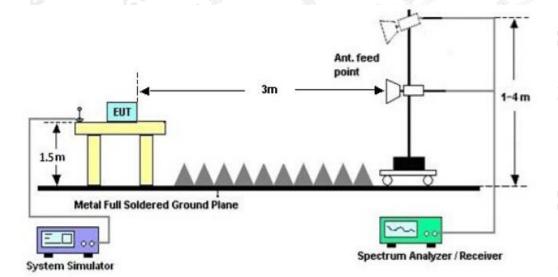
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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9.4. TEST RESULT FOR BR/EDR (Worst modulation: 8DPSK)

RADIATED EMISSION BELOW 30MHz

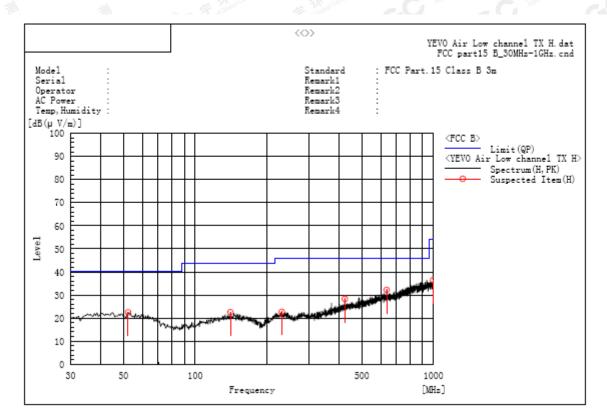
No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHz

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

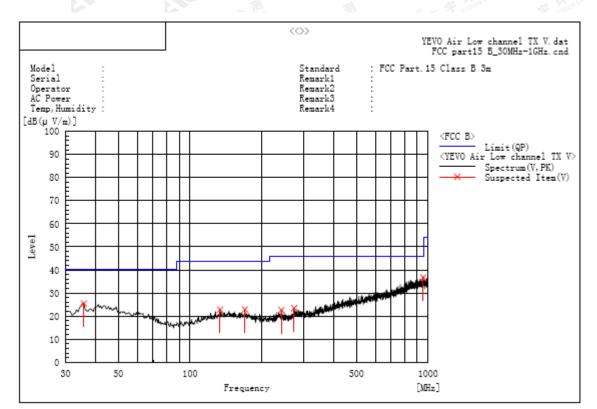


A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
52.310	Н	5.6	16.9	22.5	40.0	17.5	Pass	200.0	266.3
140.580	Н	5.9	16.6	22.5	43.5	21.0	Pass	100.0	335.5
230.790	н	6.9	15.8	22.7	46.0	23.3	Pass	100.0	301.0
424.790	Н	6.8	21.5	28.3	46.0	17.7	Pass	200.0	264.4
636.250	Н	6.7	25.5	32.2	46.0	13.8	Pass	200.0	266.3
997.575	Н	5.4	31.1	36.5	54.0	17.5	Pass	100.0	193.9

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	Margin dB	Pass/Fail	Height cm	Angle deg
35.820	v	9.0	16.5	25.5	40.0	14.5	Pass	200.0	85.5
133.790	v	6.4	16.5	22.9	43.5	20.6	Pass	100.0	157.7
170.165	v	7.0	15.9	22.9	43.5	20.6	Pass	100.0	50.0
241.945	v	6.4	16.2	22.6	46.0	23.4	Pass	150.0	229.8
273.470	v	6.1	17.3	23.4	46.0	22.6	Pass	150.0	50.0
954.410	v	6.1	30.7	36.8	46.0	9.2	Pass	100.0	266.3

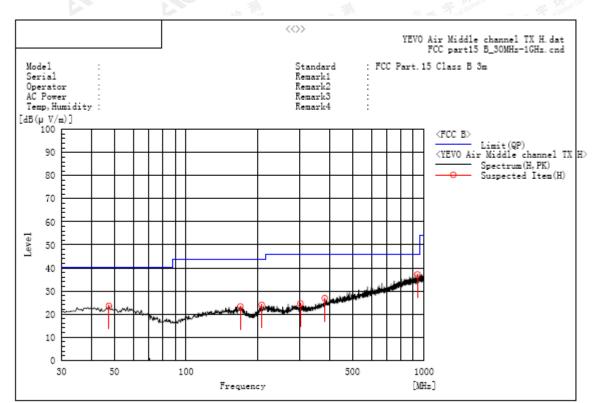
RESULT: PASS

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

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

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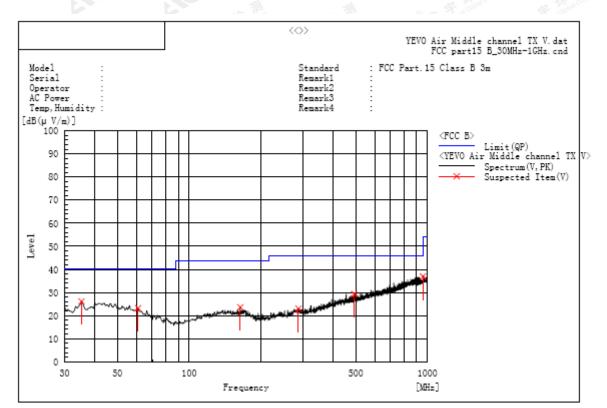
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
47.460	Н	6.4	17.2	23.6	40.0	16.4	Pass	100.0	33.5
169.195	н	7.3	16.0	23.3	43.5	20.2	Pass	200.0	182.5
207.995	Н	10.2	13.8	24.0	43.5	19.5	Pass	150.0	165.6
302.570	Н	7.1	17.5	24.6	46.0	21.4	Pass	200.0	311.3
382.595	Н	6.7	20.2	26.9	46.0	19.1	Pass	100.0	33.5
937.435	Н	6.7	30.5	37.2	46.0	8.8	Pass	100.0	356.8

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	- de de(u\/m) (de/u\/m)		Margin dB	Pass/Fail	Height cm	Angle deg	
35.335	v	9.8	16.3	26.1	40.0	13.9	Pass	100.0	174.5
61.040	v	7.1	16.1	23.2	40.0	16.8	Pass	100.0	124.9
163.860	v	7.1	16.5	23.6	43.5	19.9	Pass	200.0	256.3
287.535	v	5.3	17.7	23.0	46.0	23.0	Pass	150.0	202.3
492.690	v	6.5	22.8	29.3	46.0	16.7	Pass	150.0	278.2
957.320	v	6.3	30.7	37.0	46.0	9.0	Pass	100.0	175.5

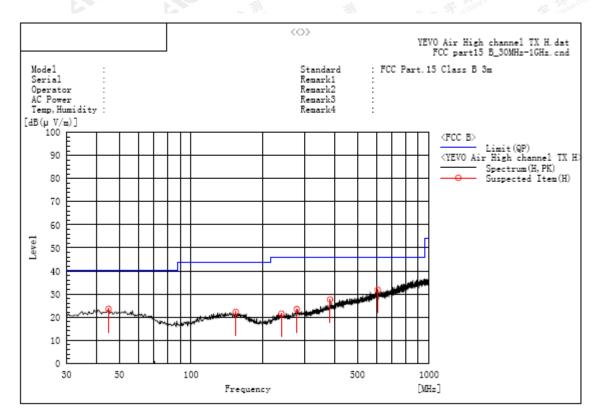
RESULT: PASS

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

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

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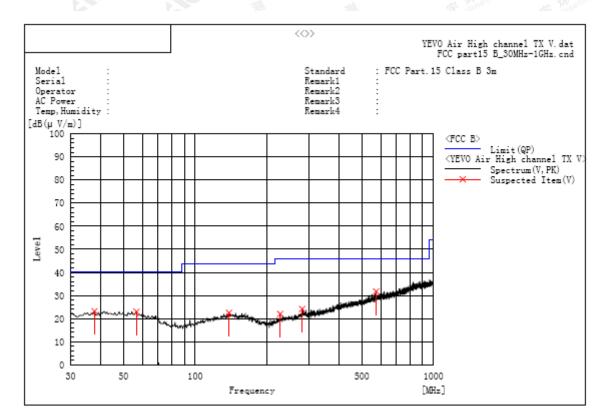
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg	
45.035	н	6.2	17.3	23.5	40.0	16.5	Pass	100.0	183.5	
154.160	н	5.6	16.6	22.2	43.5	21.3	Pass	100.0	254.1	
240.005	н	5.3	16.2	21.5	46.0	24.5	Pass	200.0	74.5	
278.320	Н	5.7	17.7	23.4	46.0	22.6	Pass	200.0	218.3	
384.050	н	7.4	20.2	27.6	46.0	18.4	Pass	150.0	291.2	
608.605	Н	6.7	25.1	31.8	46.0	14.2	Pass	100.0	178.1	

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	Margin dB	Pass/Fail	Height cm	Angle deg
37.760	v	6.1	17.1	23.2	40.0	16.8	Pass	100.0	104.5
56.675	v	6.4	16.6	23.0	40.0	17.0	Pass	200.0	87.3
138.640	v	5.9	16.6	22.5	43.5	21.0	Pass	200.0	127.7
227.395	v	6.6	15.4	22.0	46.0	24.0	Pass	100.0	322.7
281.230	v	6.5	17.7	24.2	46.0	21.8	Pass	150.0	41.5
574.170	v	7.4	24.4	31.8	46.0	14.2	Pass	100.0	322.7

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.

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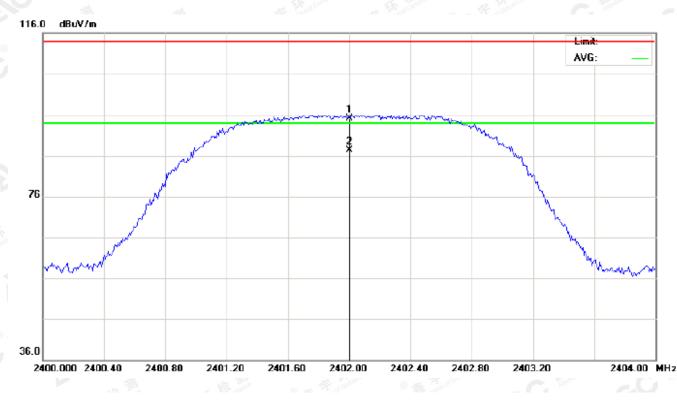
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: 8DPSK)

For Fundamental

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



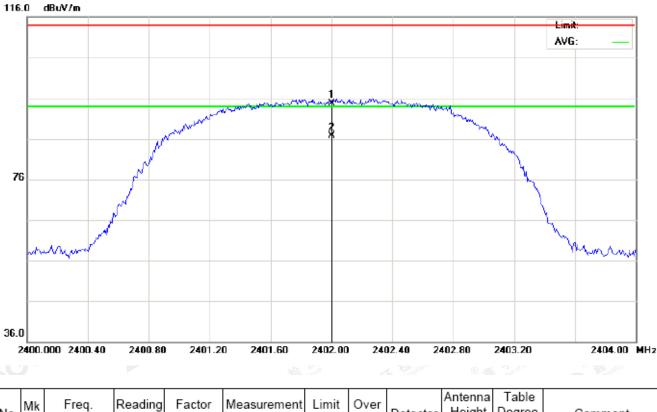
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	84.86	10.32	95.18	114.00	-18.82	peak			
2	*	2402.000	76.90	10.32	87.22	94.00	-6.78	AVG	100	151	

RESULT: PASS

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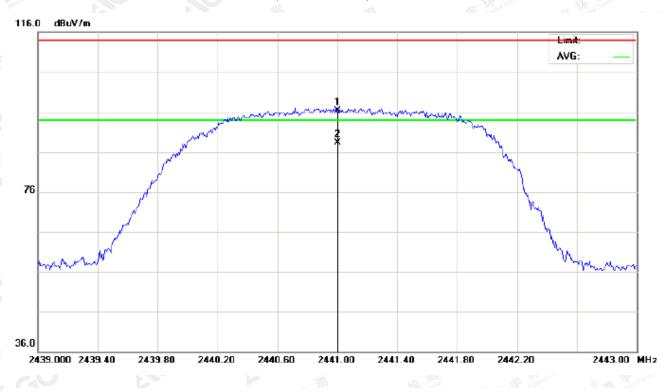
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
-	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	84.44	10.32	94.76	114.00	-19.24	peak			
2	*	2402.000	76.38	10.32	86.70	94.00	-7.30	AVG	100	311	

RESULT: PASS

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

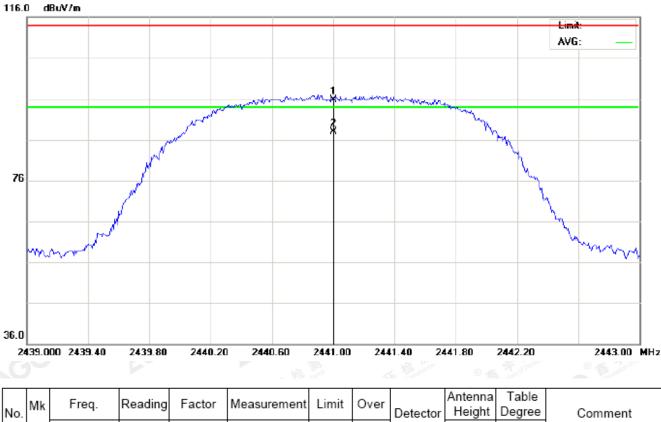
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
1		2441.000	85.90	10.36	96.26	114.00	-17.74	peak				
2	*	2441.000	77.96	10.36	88.32	94.00	-5.68	AVG	100	153		

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		Comment
	•	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2441.000	85.44	10.36	95.80	114.00	-18.20	peak			
2	*	2441.000	77.49	10.36	87.85	94.00	-6.15	AVG	100	315	

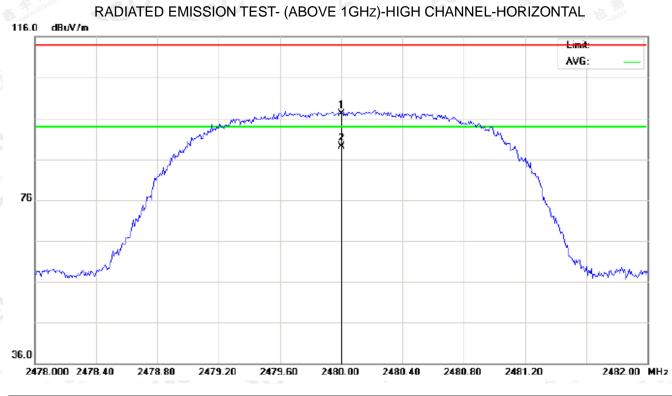
RESULT: PASS

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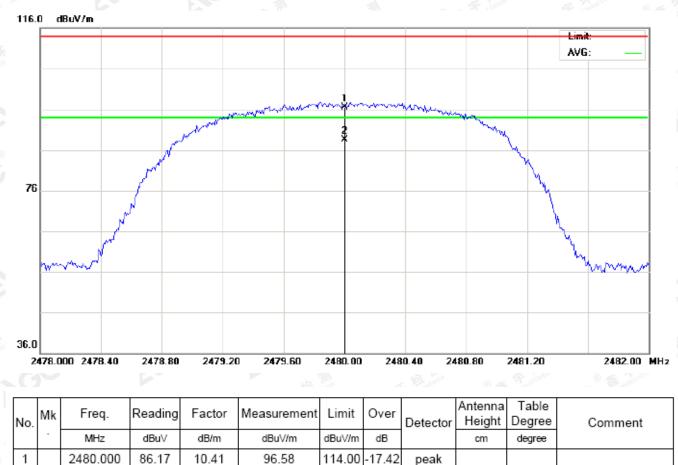


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1		2480.000	86.61	10.41	97.02	114.00	-16.98	peak			
2	*	2480.000	78.65	10.41	89.06	94.00	-4.94	AVG	100	157	

RESULT: PASS

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

RESULT: PASS

2480.000

78.12

10.41

2

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

88.53

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

94.00

-5.47

AVG

100

317

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Field strength of the fundamental signal

3Mbps Result:

Peak value

Reading Level	Factor	Measurement	Limit	Over	Antenna	
(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
84.86	10.32	95.18	114	-18.82	Horizontal	
84.44	10.32	94.76	114	-19.24	Vertical	
85.90	10.36	96.26	114 🐋	-17.74	Horizontal	
85.44	10.36	95.80	114	-18.20	Vertical	
86.61	10.41	97.02	114	-16.98	Horizontal	
86.17	10.41	96.58	114	-17.42	Vertical	
	Level (dBuv) 84.86 84.44 85.90 85.44 86.61	Level Factor (dBuv) (dB/m) 84.86 10.32 84.44 10.32 85.90 10.36 85.44 10.36 86.61 10.41	LevelFactorMeasurement(dBuv)(dB/m)(dBuv/m)84.8610.3295.1884.4410.3294.7685.9010.3696.2685.4410.3695.8086.6110.4197.02	LevelFactorMeasurementLimit(dBuv)(dB/m)(dBuv/m)(dBuv/m)84.8610.3295.1811484.4410.3294.7611485.9010.3696.2611485.4410.3695.8011486.6110.4197.02114	LevelFactorMeasurementLimitOver(dBuv)(dB/m)(dBuv/m)(dBuv/m)(dB)84.8610.3295.18114-18.8284.4410.3294.76114-19.2485.9010.3696.26114-17.7485.4410.3695.80114-18.2086.6110.4197.02114-16.98	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	76.90	10.32	87.22	94	-6.78	Horizontal	
2402	76.38	10.32	86.70	94	-7.30	Vertical	
2441	77.96	10.36	88.32	94	-5.68	Horizontal	
2441	77.49	10.36	87.85	94	-6.15	Vertical	
2480	78.65	10.41	89.06	94	-4.94	Horizontal	
2480	78.12	10.41	88.53	94	-5.47	Vertical	

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	84.40	10.32	94.72	114	-19.28	Horizontal	
2402	83.97	10.32	94.29	114	-19.71	Vertical	
2441	85.44	10.36	95.80	114	-18.20	Horizontal	
2441	85.00	10.36	95.36	114	-18.64	Vertical	
2480	86.20	10.41	96.61	114	-17.39	Horizontal	
2480	85.74	10.41	96.15	114	-17.85	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.44	10.32	86.76	94	-7.24	Horizontal
2402	75.99	10.32	86.31	94	-7.69	Vertical
2441	77.46	10.36	87.82	94	-6.18	Horizontal
2441	77.05	10.36	87.41	94	-6.59	Vertical
2480	78.21	10.41	88.62	94	-5.38	Horizontal
2480	77.71	10.41	88.12	94	-5.88	Vertical

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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	83.98	10.32	94.30	114	-19.70	Horizontal	
2402	83.53	10.32	93.85	114	-20.15	Vertical	
2441	85.03	10.36	95.39	114	-18.61	Horizontal	
2441	84.59	10.36	94.95	114	-19.05	Vertical	
2480	85.77	10.41	96.18	114	-17.82	Horizontal	
2480	85.27	10.41	95.68	114	-18.32	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.00	10.32	86.32	94	-7.68	Horizontal
2402	75.52	10.32	85.84	94	-8.16	Vertical
2441	76.96	10.36	87.32	94	-6.68	Horizontal
2441	76.56	10.36	86.92	94	-7.08	Vertical
2480	77.75	10.41	88.16	94	-5.84	Horizontal
2480	77.29	10.41	87.70	94	-6.30	Vertical

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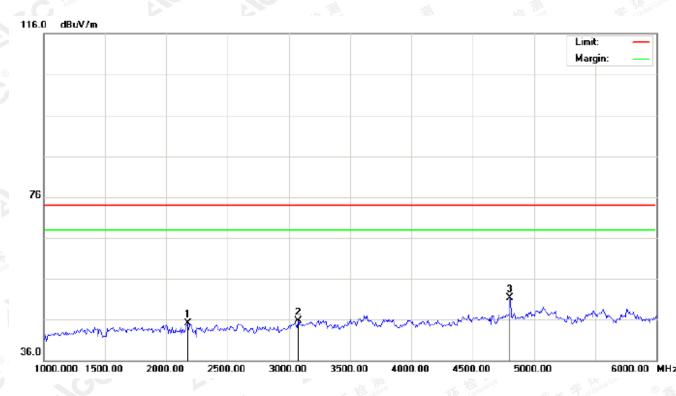
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FOR BR/EDR

(Worst modulation: 8DPSK)

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	dBuV/m	dB		cm	degree	
1		2175.000	35.00	10.07	45.07	74.00	-28.93	peak			
2		3075.000	34.09	11.71	45.80	74.00	-28.20	peak			
3	*	4804.000	43.71	7.69	51.40	74.00	-22.60	peak			

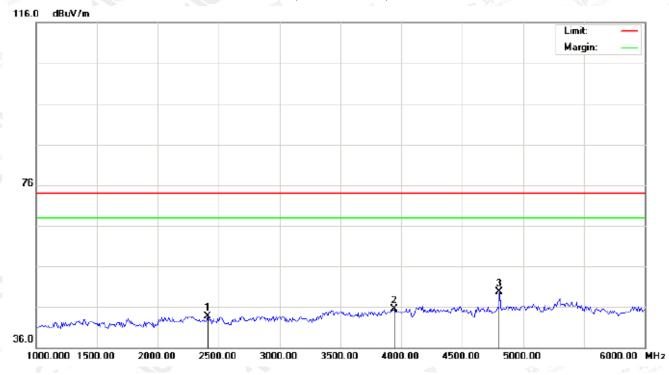
RESULT: PASS

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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
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2408.333	33.43	10.33	43.76	74.00	-30.24	peak			
2		3941.667	30.73	14.83	45.56	74.00	-28.44	peak			
3	*	4804.000	42.05	7.69	49.74	74.00	-24.26	peak			

RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2375.000	33.18	10.29	43.47	74.00	-30.53	peak			
2		4041.667	31.19	14.50	45.69	74.00	-28.31	peak			
3	*	4882.000	43.16	7.89	51.05	74.00	-22.95	peak			

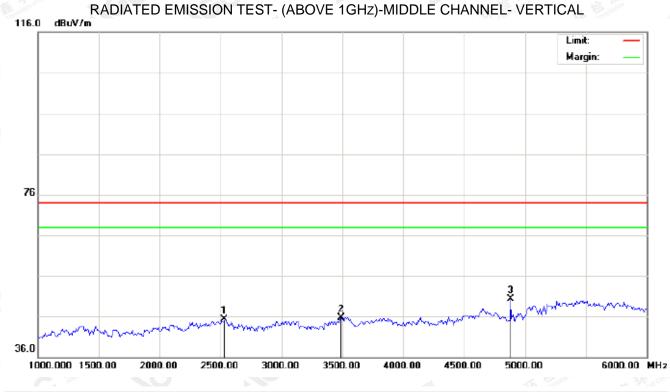
RESULT: PASS

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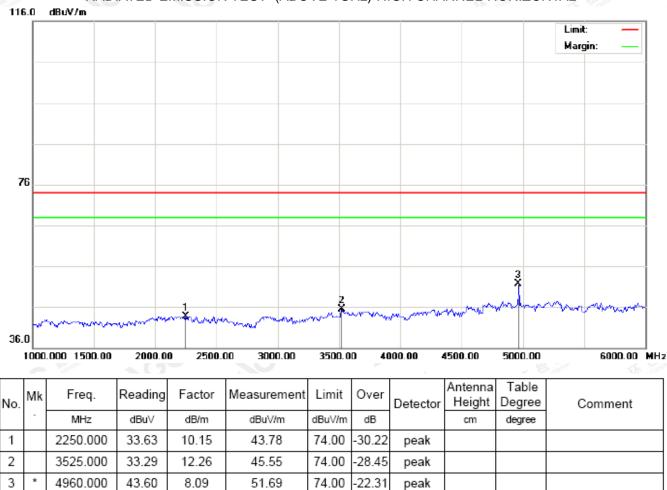
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2533.333	34.83	10.51	45.34	74.00	-28.66	peak			
2		3491.667	33.65	12.10	45.75	74.00	-28.25	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

RESULT: PASS

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

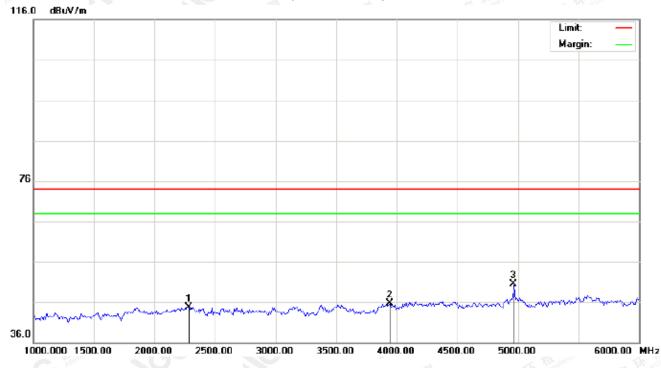
RESULT: PASS

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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
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2283.333	34.55	10.19	44.74	74.00	-29.26	peak			
2		3941.667	30.90	14.83	45.73	74.00	-28.27	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

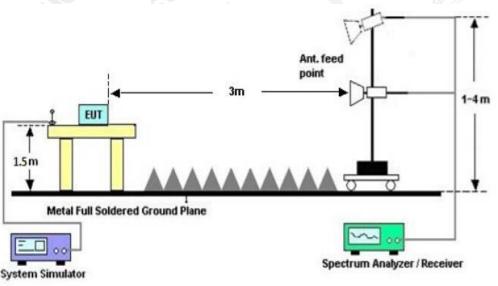
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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	y(MHz)	Stop frequency(MHz)				
2200	· 电···································	nce C Stratter	2405	SC -		
2478	C Austano of Gou	GO	2500			
Aller Aller						

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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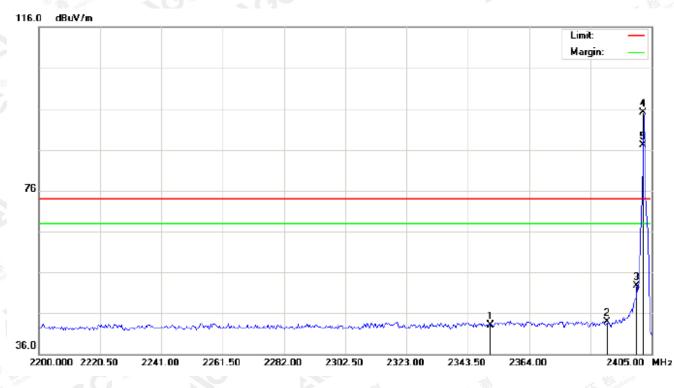


10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: 8DPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



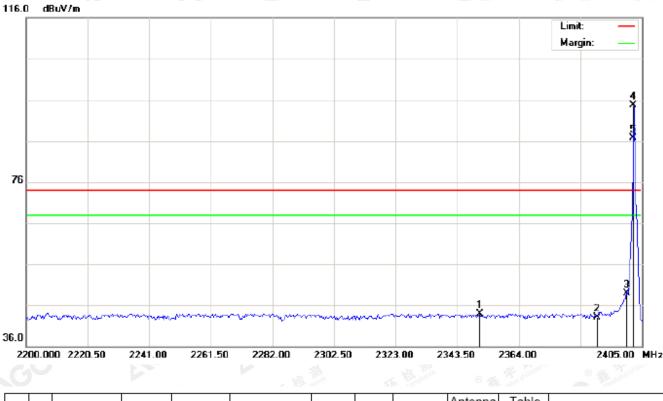
N	No. N	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector He	Antenna Height	Table Degree	Comment
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree]
1			2351.017	32.77	10.27	43.04	74.00	-30.96	peak			
2			2390.000	33.50	10.31	43.81	74.00	-30.19	peak			
3			2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4		*	2402.000	84.88	10.32	95.20	74.00	21.20	peak			
5		Х	2402.000	76.87	10.32	87.19	74.00	13.19	AVG	100	154	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

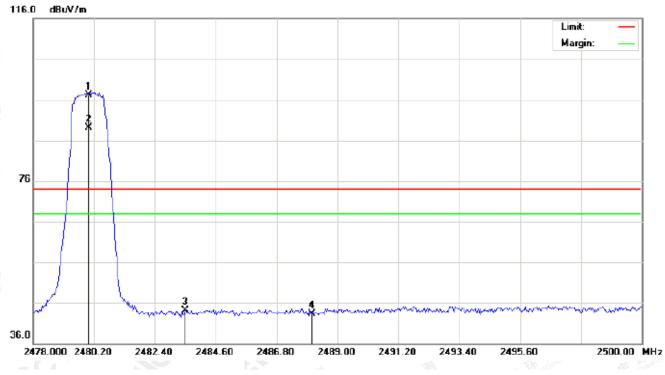
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2351.017	33.59	10.27	43.86	74.00	-30.14	peak			
2		2390.000	32.71	10.31	43.02	74.00	-30.98	peak			
3		2400.000	38.56	10.32	48.88	74.00	-25.12	peak			
4	*	2402.000	84.47	10.32	94.79	74.00	20.79	peak			
5	Х	2402.000	76.35	10.32	86.67	74.00	12.67	AVG	100	310	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

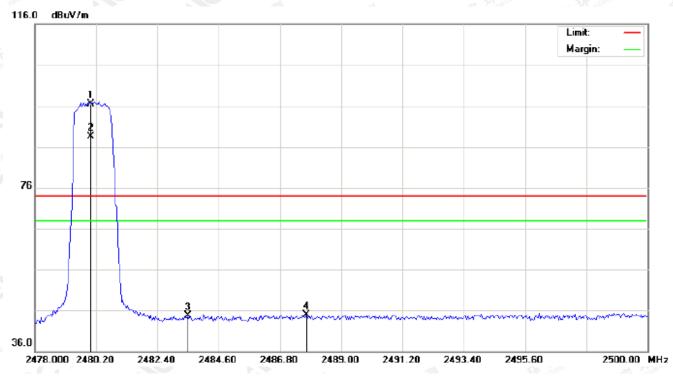
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	2480.000	86.65	10.41	97.06	74.00	23.06	peak			
2	Х	2480.000	78.68	10.41	89.09	74.00	15.09	AVG	100	152	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2488.083	32.96	10.42	43.38	74.00	-30.62	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over		Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree		
1	*	2480.000	86.14	10.41	96.55	74.00	22.55	peak				
2	Х	2480.000	78.09	10.41	88.50	74.00	14.50	AVG	100	313		
3		2483.500	34.26	10.41	44.67	74.00	-29.33	peak				
4		2487.753	34.45	10.42	44.87	74.00	-29.13	peak				

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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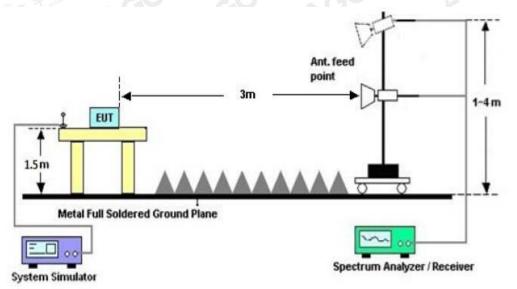
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW \geq 1% of the 20 dB bandwidth, VBW \geq 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		D It						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The Constant of American	Low Channel	0.958	1.097	PASS				
N/A	Middle Channel	0.954	1.077	PASS				
	High Channel	0.950	1.104	PASS				

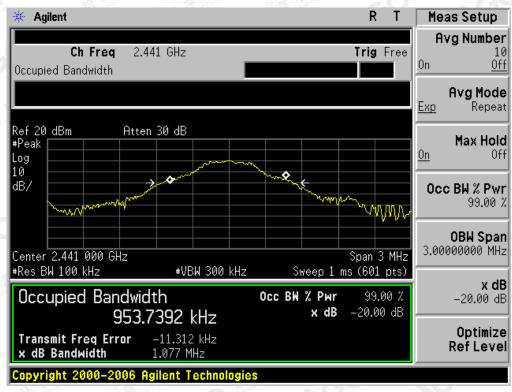
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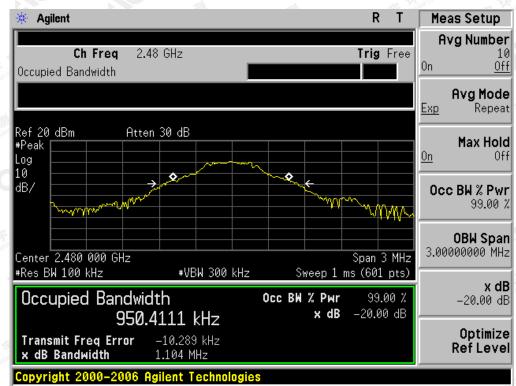
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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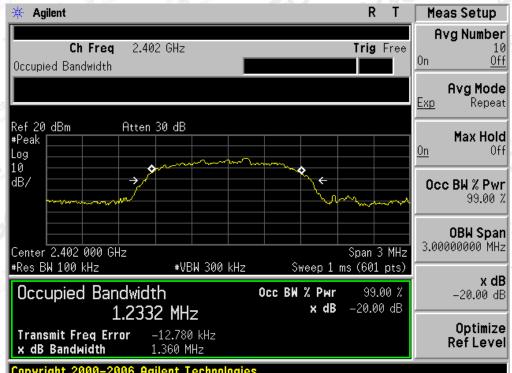


BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT				
	Measurement Result						
Applicable Limits		.					
		99%OBW (MHz)	-20dB BW(MHz)	Result			
The the second second	Low Channel	1.233	1.360	PASS			
N/A	Middle Channel	1.221	1.378	PASS			
	High Channel	1.224	1.375	PASS			

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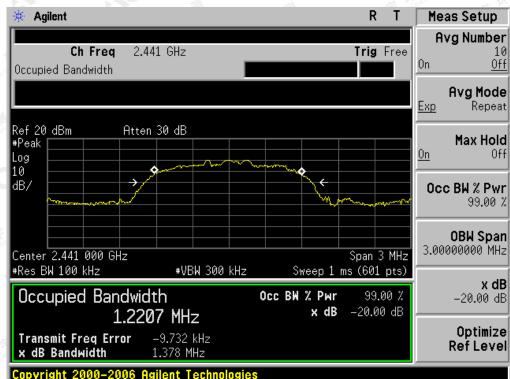
GC

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



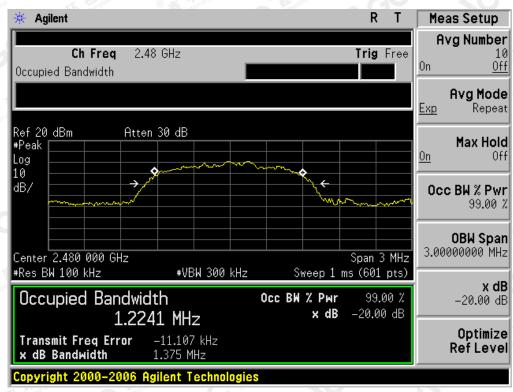
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUET							
BLUEI			REMENT RESULT				
	Measurement Result						
Applicable Limits		Result					
		99%OBW (MHz)	-20dB BW(MHz)	Result			
The the man	Low Channel	1.224	1.371	PASS			
N/A	Middle Channel	1.226	1.377	PASS			
	High Channel	1.231	1.377	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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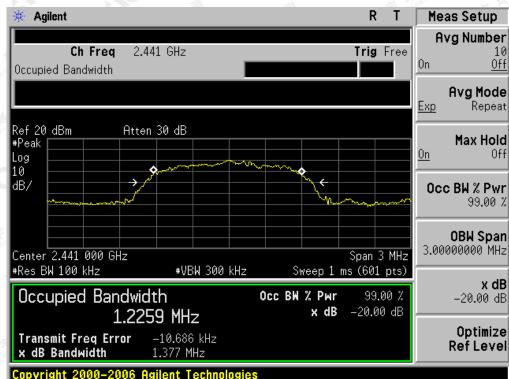
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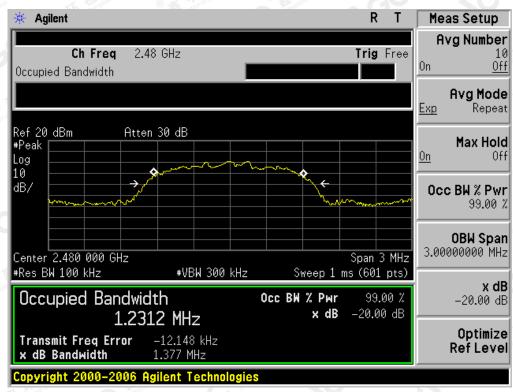
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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

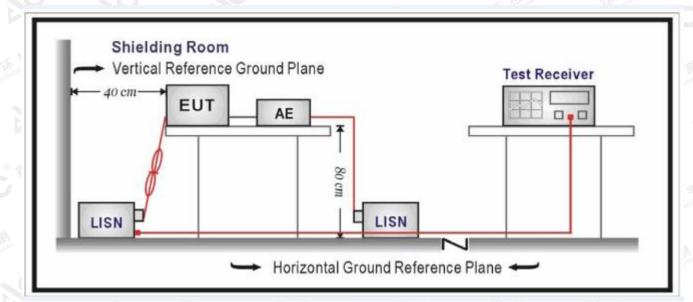
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56 °	46					
5MHz~30MHz	60	50					

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

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

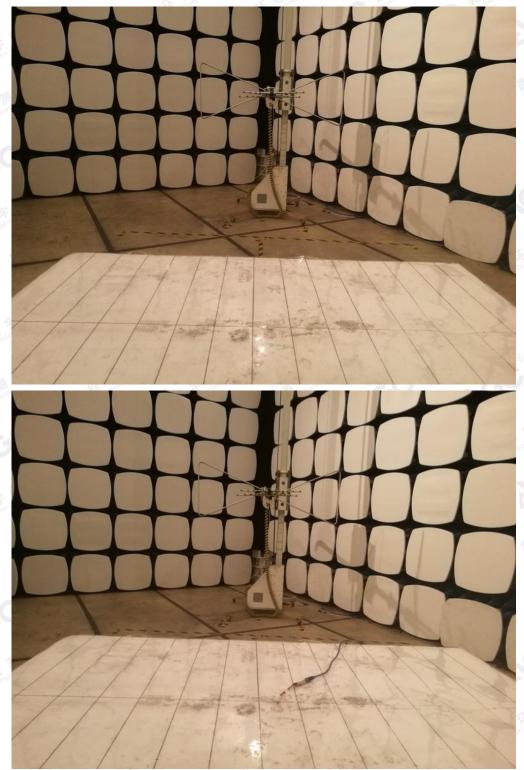
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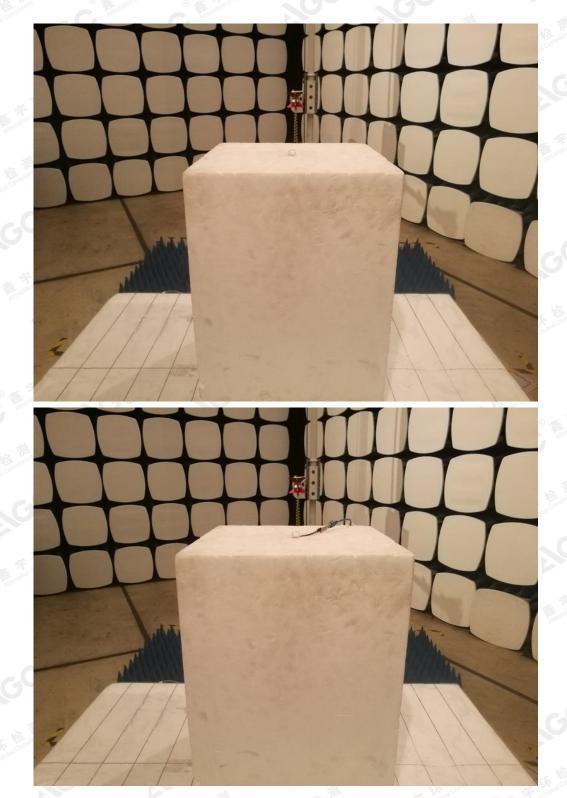
APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



Left VIEW OF EUT (PORT)



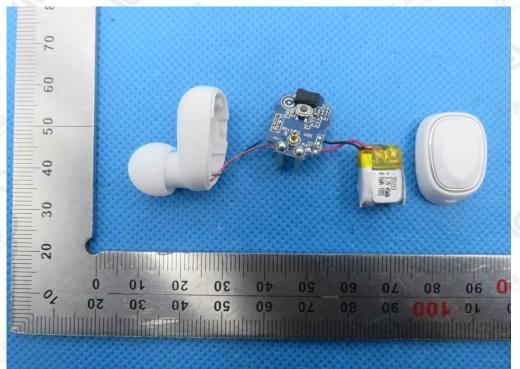
The results shown in this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



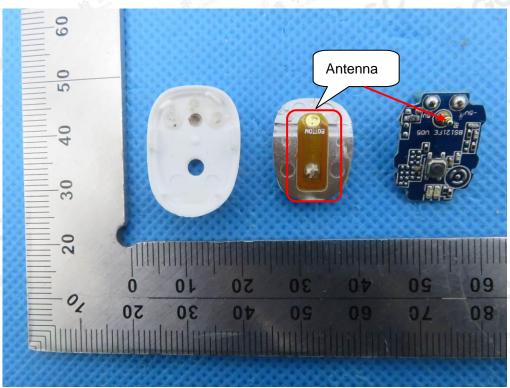


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OPEN VIEW OF EUT-2



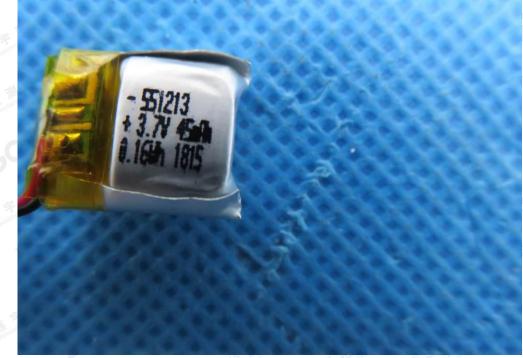
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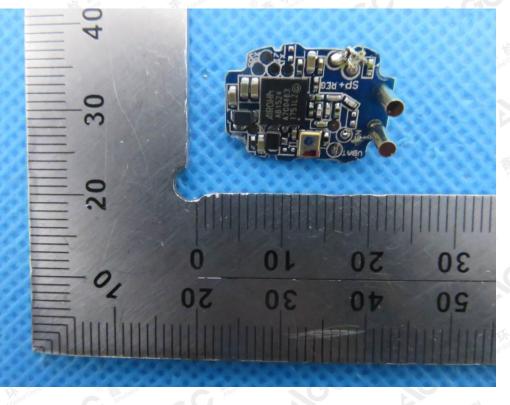


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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



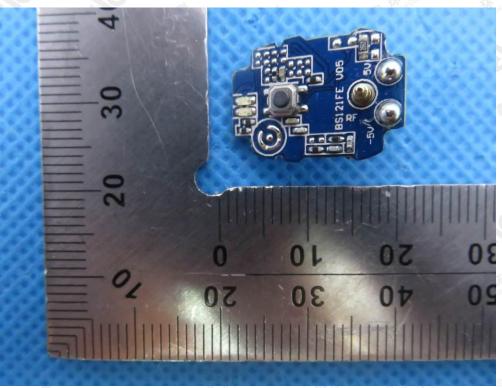
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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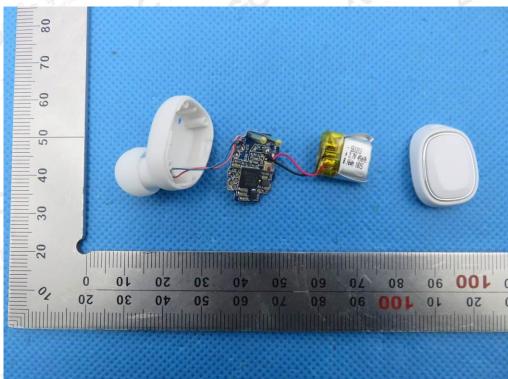


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Right VIEW OF EUT (PORT)



OPEN VIEW OF EUT-1

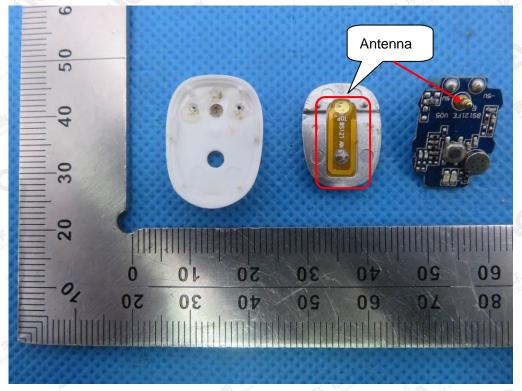


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OPEN VIEW OF EUT-2



VIEW OF BATTERY



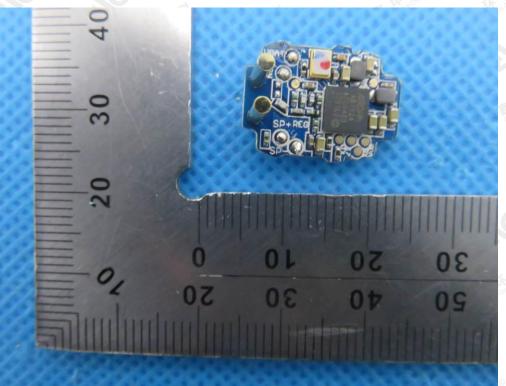
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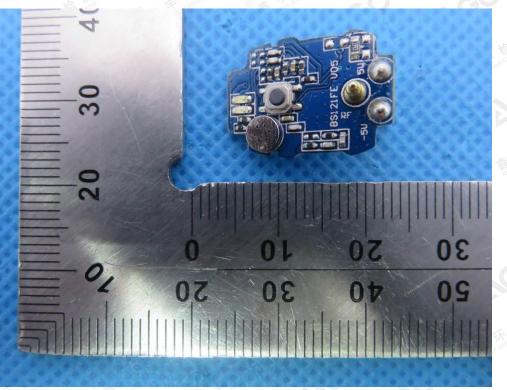


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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



Charging Dock VIEW OF EUT (PORT) -1



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VIEW OF EUT (PORT) -2



----END OF REPORT----

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