

FCC Test Report

Report No.: AGC00798180401FE03

FCC ID : 2APN8-RD08

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Wireless headset

BRAND NAME : Rambotech

MODEL NAME : RD08, RD01, RD02, RD03, RD04

CLIENT: Shenzhen Rambo Weiye Electronic Co., Ltd

DATE OF ISSUE : Apr. 18, 2018

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC

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Page 2 of 59

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	Sold Transfer	Apr. 18, 2018	Valid	Initial release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	
2.1. PRODUCT DESCRIPTION	5 5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION	
5.1. CONFIGURATION OF EUT SYSTEM 5.2. EQUIPMENT USED IN EUT SYSTEM 5.3. SUMMARY OF TEST RESULTS	8 8 9
6. TEST FACILITY	10
7.TEST METHOD	11
8. TEST EQUIPMENT LIST	11
9. RADIATED EMISSION	12
9.1TEST LIMIT 9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP 9.4. TEST RESULT	12
10. BAND EDGE EMISSION	38
10.1. MEASUREMENT PROCEDURE	38 39
11. 20DB BANDWIDTH	43
11.1. MEASUREMENT PROCEDURE	43
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	51 51 51
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	52
ADDENDIV DE DUOTOOD ADUO OF FUT	



age 4 of 59

1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Rambo Weiye Electronic Co., Ltd				
Address	3A03, Block 1, 182 Design Park, NO 182, Bulan Rd, Buji Longgang district, Shenzhen China				
Manufacturer	Shenzhen Rambo Weiye Electronic Co., Ltd				
Address	3A03, Block 1, 182 Design Park, NO 182, Bulan Rd, Buji Longgang district, Shenzhen China				
Product Designation	Wireless headset				
Brand Name	Rambotech				
Test Model	RD08				
Series Model	RD01, RD02, RD03, RD04				
Difference description	All the same except for the model name and appearance color.				
Date of test	Apr. 04, 2018 to Apr. 18, 2018				
Deviation	None Some				
Condition of Test Sample	Normal				
Report Template AGCRT-US-BR/RF					

We hereby certify that:

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

Tested By	Jorden Wang			
The state of the s	Jonhen Wang(Wang Yonghuan)	Apr.18, 2018		
Reviewed By	Foresto cei			
7M	Forrest Lei(Lei Yonggang)	Apr.18, 2018		

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Page 5 of 59

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	0.21dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.1
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V4, the state of t
Software Version	V1.0
Antenna Designation	Ceramic Antenna
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery
Alle	lly used for charging and can't be used to transfer data with PC. of EUT didn't work when charging.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
70	0 15 15 15 15 15 15 15 15 15 15 15 15 15	2402MHz
	The state of the s	2403MHz
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40 0	2442 MHz
		· · · · · · · · · · · · · · · · · · ·
	77	2479 MHz
See The State Communica	78	2480 MHz



Page 6 of 59

3. MEASUREMENT UNCERTAINTY

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

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

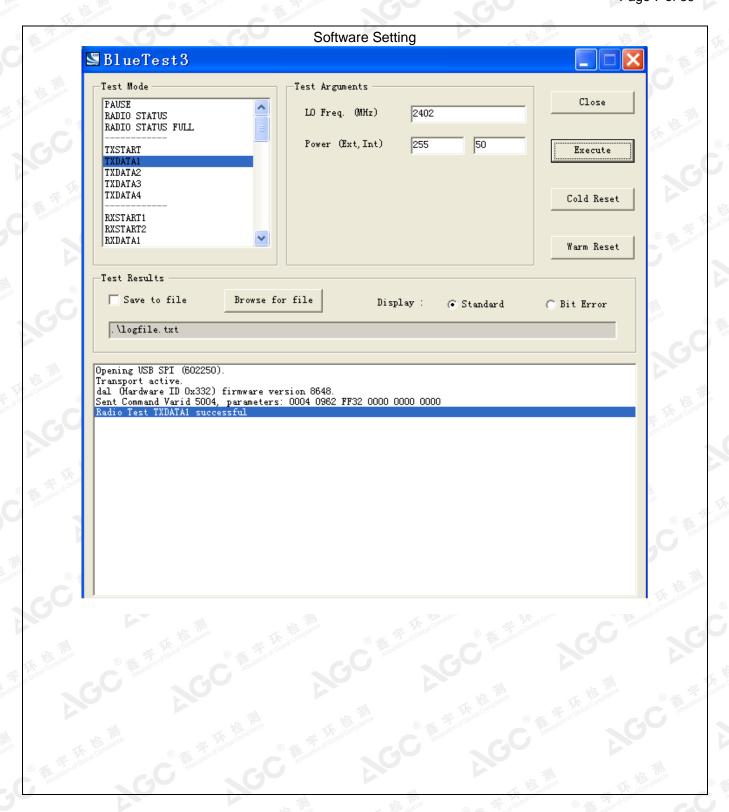
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION				
® Andrews	Low channel GFSK				
2 2	Middle channel GFSK				
3	High channel GFSK				
· 4 、 6	Low channel π /4-DQPSK				
© \$5,00 d Cloos	Middle channel π /4-DQPSK				
6	High channel π /4-DQPSK				
7	Low channel 8DPSK				
8 @	Middle channel 8DPSK				
90	High channel 8DPSK				
10	BT Link				
7000					

Note

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





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Page 8 of 59

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

	# # ₀₀ c	
EUT	Control box	PC

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Wireless headset	Rambotech	RD08	EUT,
2	Battery	HS	430936	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	CSR	USB_SPI_TOOLS	A.E
5	USB Cable	N/A	1m unshielded	A.E



Page 9 of 59

5.3. SUMMARY OF TEST RESULTS

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

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



Page 10 of 59

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 59

7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	Janion of Color	Mar. 01, 2018	Feb. 28, 2020
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018



Page 12 of 59

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	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
(MHz)	Meters	μ V/m	dB(μV)/m				
0.009 ~ 0.490	300	2400/F(kHz)	2				
0.490 ~ 1.705	30	24000/F(kHz)	校訓				
1.705 ~ 30	30	30 ()	See Selected Colors				
30 ~ 88	3	100	40.0				
88 ~ 216	3 - 6	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	3 T. GO	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.



Page 13 of 59

9.2. MEASUREMENT PROCEDURE

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

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Page 14 of 59

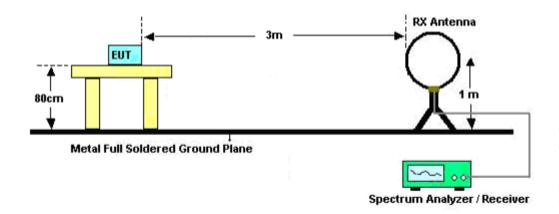
The following table is the setting of spectrum analyzer and receiver.

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

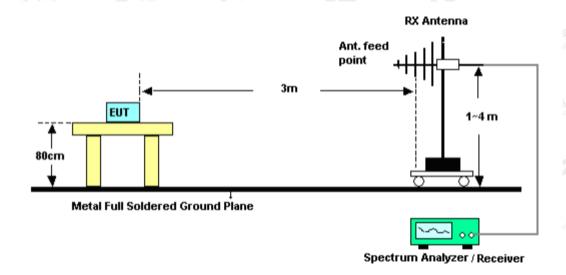


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz

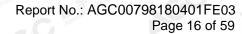


RADIATED EMISSION TEST SETUP 30MHz-1000MHz



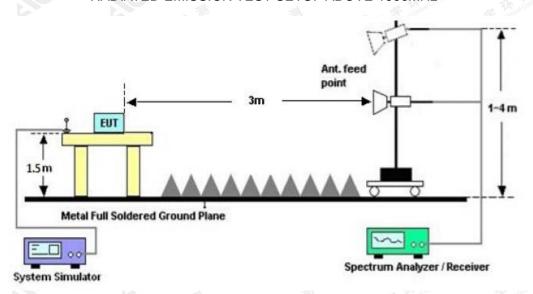
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RADIATED EMISSION TEST SETUP ABOVE 1000MHz





Page 17 of 59

9.4. TEST RESULT

FOR BR/EDR

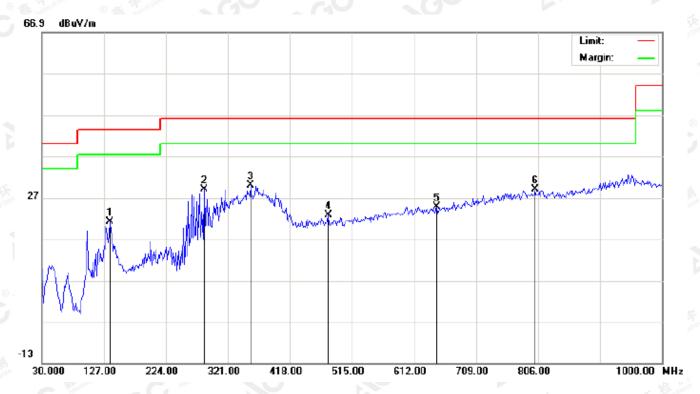
(Worst modulation: GFSK)

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



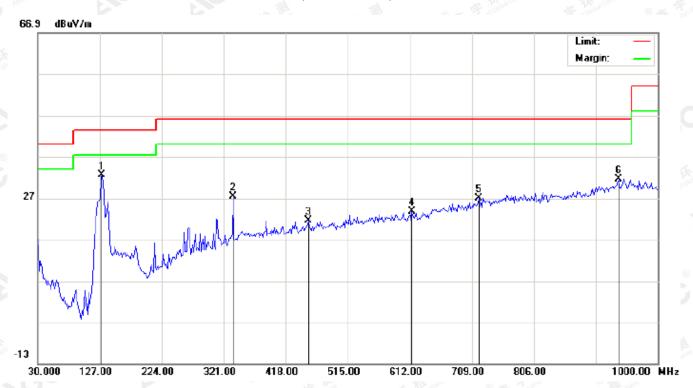
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		136.7000	7.52	13.66	21.18	43.50	-22.32	peak			
2		283.8167	16.33	12.66	28.99	46.00	-17.01	peak			
3	*	356.5667	11.13	18.78	29.91	46.00	-16.09	peak			
4		477.8167	1.96	20.89	22.85	46.00	-23.15	peak			
5		647.5667	0.95	23.84	24.79	46.00	-21.21	peak			
6		801.1500	1.66	27.32	28.98	46.00	-17.02	peak			

RESULT: PASS



Page 18 of 59

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	130.2332	21.43	11.13	32.56	43.50	-10.94	peak			
2		335.5500	9.67	17.78	27.45	46.00	-18.55	peak			
3		453.5667	0.91	20.63	21.54	46.00	-24.46	peak			
4		615.2333	0.78	23.07	23.85	46.00	-22.15	peak			
5		720.3167	1.20	25.78	26.98	46.00	-19.02	peak			
6		938.5667	2.02	29.68	31.70	46.00	-14.30	peak			

RESULT: PASS

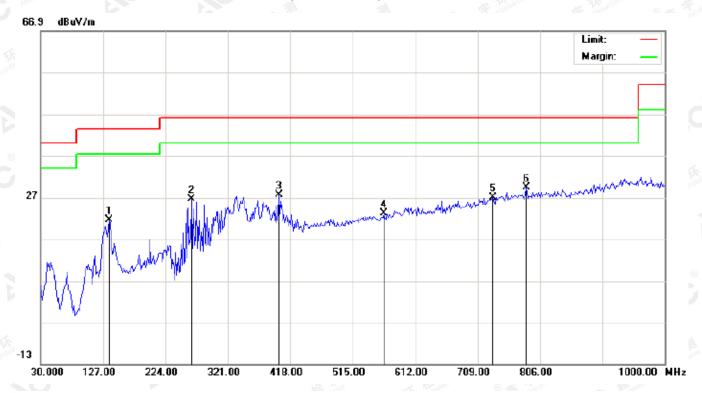
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



Page 19 of 59

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



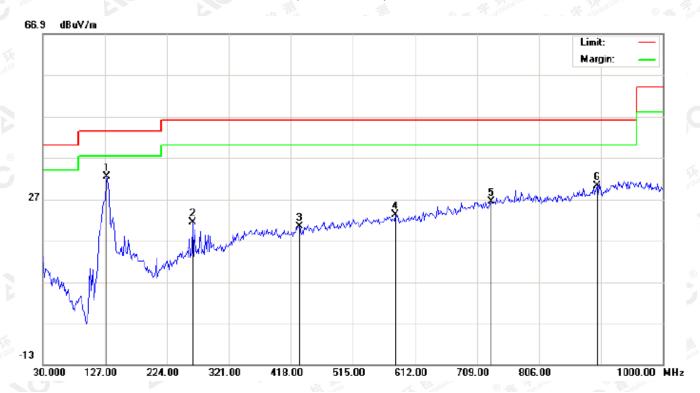
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		136.7000	8.03	13.66	21.69	43.50	-21.81	peak			
2		264.4166	17.18	9.35	26.53	46.00	-19.47	peak			
3		400.2167	8.50	19.08	27.58	46.00	-18.42	peak			
4		563.5000	0.29	22.82	23.11	46.00	-22.89	peak			
5		733.2500	0.94	26.16	27.10	46.00	-18.90	peak			
6	*	784.9833	2.20	27.11	29.31	46.00	-16.69	peak			

RESULT: PASS



Page 20 of 59

RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE 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	*	130.2332	21.24	11.13	32.37	43.50	-11.13	peak			
2		264.4166	7.06	14.34	21.40	46.00	-24.60	peak			
3		430.9333	0.43	20.01	20.44	46.00	-25.56	peak			
4		581.2833	0.56	22.64	23.20	46.00	-22.80	peak			
5		731.6332	0.36	26.10	26.46	46.00	-19.54	peak			
6		896.5333	1.69	28.52	30.21	46.00	-15.79	peak			

RESULT: PASS

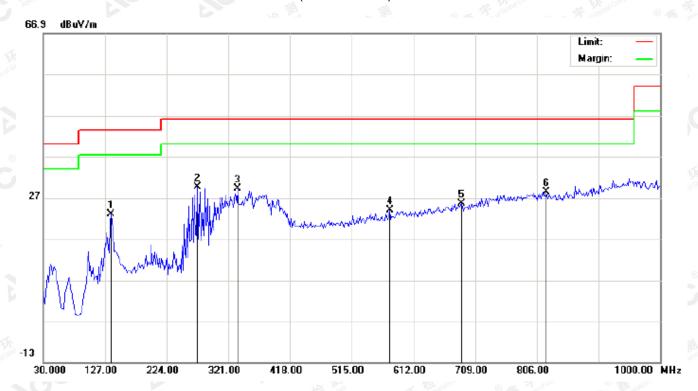
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



Page 21 of 59

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		136.7000	9.27	13.66	22.93	43.50	-20.57	peak			
2	*	272.5000	18.94	10.73	29.67	46.00	-16.33	peak			
3		335.5500	11.49	17.78	29.27	46.00	-16.73	peak			
4		574.8167	0.98	23.10	24.08	46.00	-21.92	peak			
5		687.9833	0.70	24.89	25.59	46.00	-20.41	peak			
6		820.5500	1.10	27.32	28.42	46.00	-17.58	peak			

RESULT: PASS

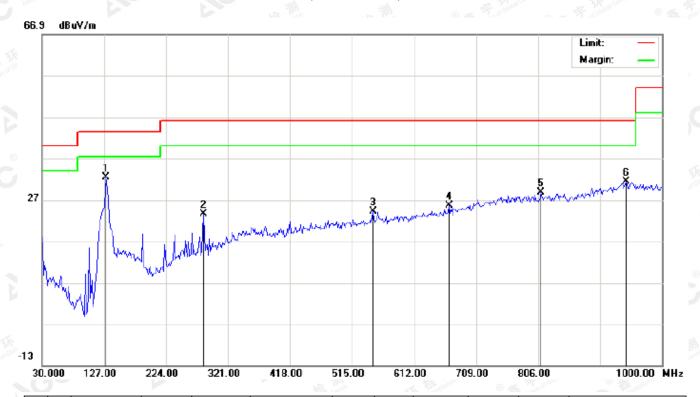
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Page 22 of 59

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	130.2332	21.36	11.13	32.49	43.50	-11.01	peak			
2		282.2000	8.77	14.87	23.64	46.00	-22.36	peak			
3		547.3333	1.71	22.41	24.12	46.00	-21.88	peak			
4		666.9667	1.36	24.30	25.66	46.00	-20.34	peak			
5		810.8500	1.44	27.32	28.76	46.00	-17.24	peak			
6		943.4167	1.55	29.82	31.37	46.00	-14.63	peak			

RESULT: PASS

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

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



Page 23 of 59

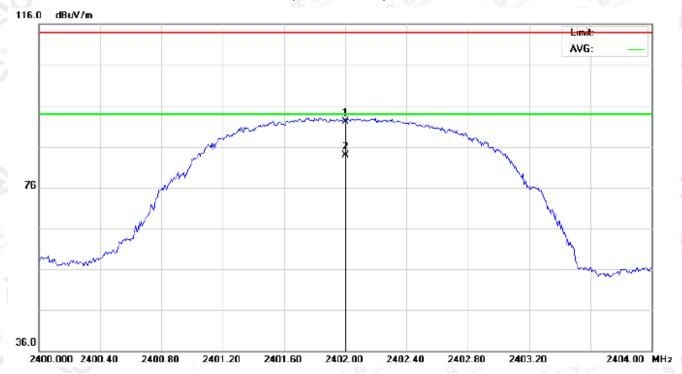
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: GFSK)

For Fundamental

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



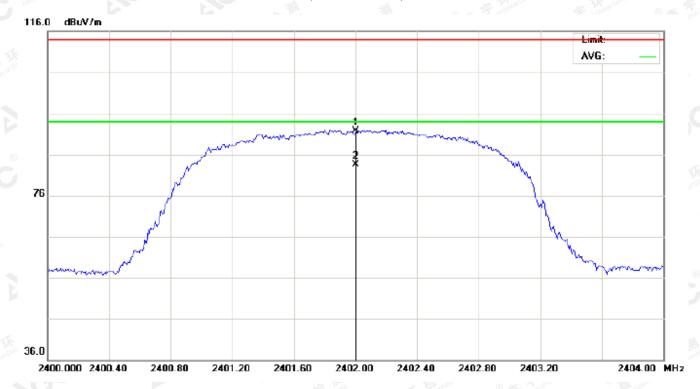
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	81.79	10.32	92.11	114.00	-21.89	peak			
2	*	2402.000	73.59	10.32	83.91	94.00	-10.09	AVG	100	324	

RESULT: PASS



Page 24 of 59

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



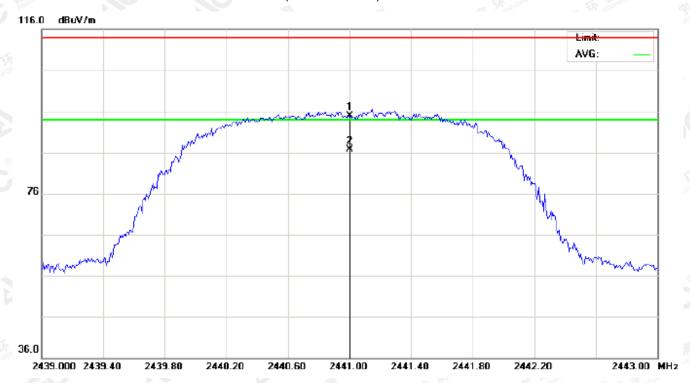
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	81.41	10.32	91.73	114.00	-22.27	peak			
2	*	2402.000	73.28	10.32	83.60	94.00	-10.40	AVG	100	124	

RESULT: PASS



Page 25 of 59

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



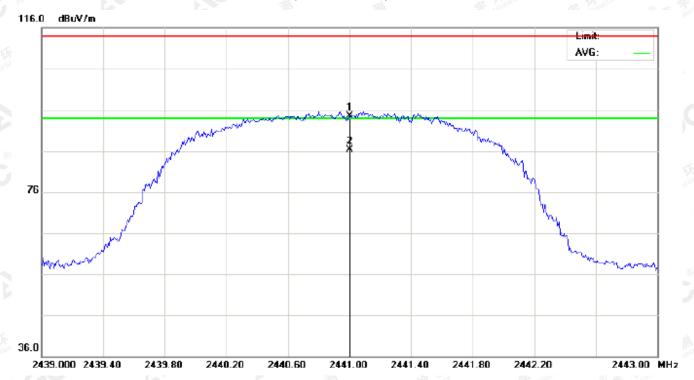
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	84.46	10.36	94.82	114.00	-19.18	peak			
2	*	2441.000	76.26	10.36	86.62	94.00	-7.38	AVG	100	312	_

RESULT: PASS



Page 26 of 59

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



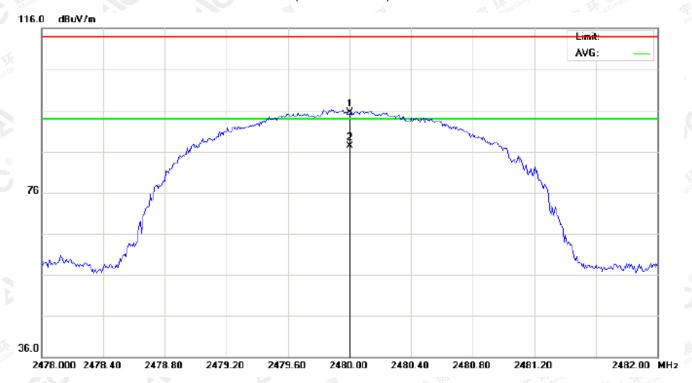
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	84.15	10.36	94.51	114.00	-19.49	peak			
2	*	2441.000	75.95	10.36	86.31	94.00	-7.69	AVG	100	159	

RESULT: PASS



Page 27 of 59

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



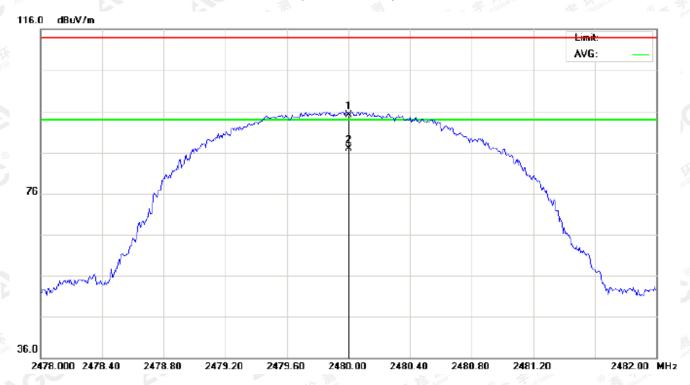
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	85.00	10.41	95.41	114.00	-18.59	peak			
2	*	2480.000	76.80	10.41	87.21	94.00	-6.79	AVG	100	301	

RESULT: PASS



Page 28 of 59

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	dBu∀/m	dB		cm	degree	
1		2480.000	84.69	10.41	95.10	114.00	-18.90	peak			
2	*	2480.000	76.48	10.41	86.89	94.00	-7.11	AVG	100		

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 59

Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	81.79	10.32	92.11	114	-21.89	Horizontal	
2402	81.41	10.32	91.73	114	-22.27	Vertical	
2441	84.46	10.36	94.82	114	-19.18	Horizontal	
2441	84.15	10.36	94.51	114	-19.49	Vertical	
2480	85.00	10.41	95.41	114	-18.59	Horizontal	
2480	84.69	10.41	95.10	114	-18.90	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	73.59	10.32	83.91	94	-10.09	Horizontal	
2402	73.28	10.32	83.60	94	-10.40	Vertical	
2441	76.26	10.36	86.62	94	-7.38	Horizontal	
2441	75.95	10.36	86.31	94	-7.69	Vertical	
2480	76.80	10.41	87.21	94	-6.79	Horizontal	
2480	76.48	10.41	86.89	94	-7.11	Vertical	



Page 30 of 59

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	81.41	10.32	91.73	114	-22.27	Horizontal	
2402	81.04	10.32	91.36	114	-22.64	Vertical	
2441	84.14	10.36	94.50	114	-19.50	Horizontal	
2441	83.70	10.36	94.06	114	-19.94	Vertical	
2480	84.68	10.41	95.09	114	-18.91	Horizontal	
2480	84.28	10.41	94.69	114	-19.31	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.25	10.32	83.57	94	-10.43	Horizontal
2402	72.93	10.32	83.25	94	-10.75	Vertical
2441	75.84	10.36	86.20	94	-7.80	Horizontal
2441	75.49	10.36	85.85	94	-8.15	Vertical
2480	76.35	10.41	86.76	94	-7.24	Horizontal
2480	76.10	10.41	86.51	94	-7.49	Vertical



Page 31 of 59

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	80.97	10.32	91.29	114	-22.71	Horizontal	
2402	80.62	10.32	90.94	114	-23.06	Vertical	
2441	83.72	10.36	94.08	114	-19.92	Horizontal	
2441	83.22	10.36	93.58	114	-20.42	Vertical	
2480	84.31	10.41	94.72	114	-19.28	Horizontal	
2480	83.84	10.41	94.25	114	-19.75	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	72.79	10.32	83.11	94	-10.89	Horizontal	
2402	72.57	10.32	82.89	94	-11.11	Vertical	
2441	75.48	10.36	85.84	94	-8.16	Horizontal	
2441	75.00	10.36	85.36	94	-8.64	Vertical	
2480	75.87	10.41	86.28	94	-7.72	Horizontal	
2480	75.65	10.41	86.06	94	-7.94	Vertical	



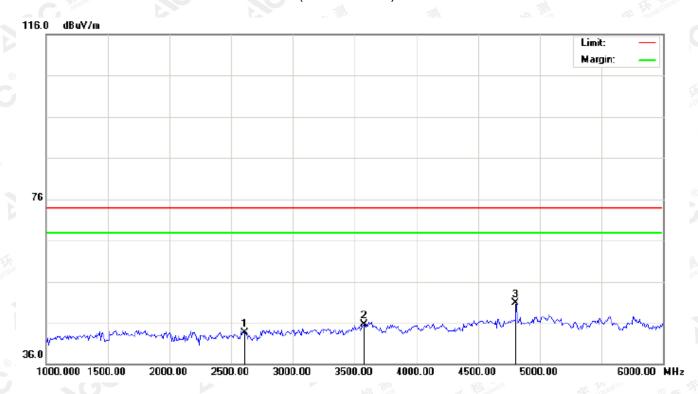
age 32 of 59

FOR BR/EDR

(Worst modulation: GFSK)

For Harmonics

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



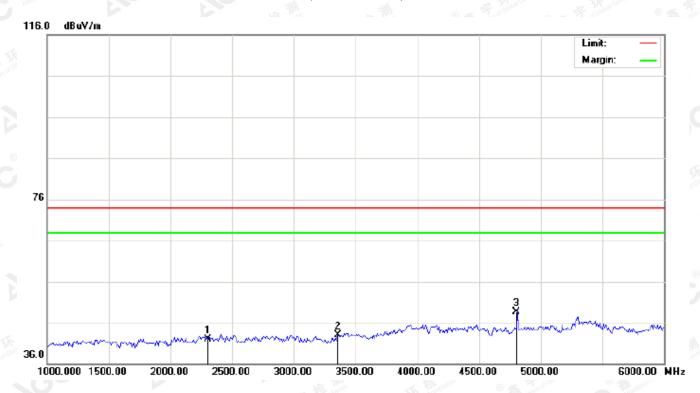
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2608.333	33.01	10.69	43.70	74.00	-30.30	peak			
2		3575.000	33.20	12.57	45.77	74.00	-28.23	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

RESULT: PASS



Page 33 of 59

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



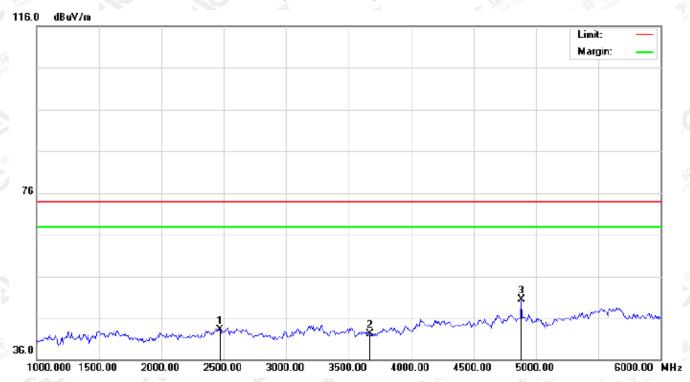
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2300.000	31.84	10.21	42.05	74.00	-31.95	peak			
2		3358.333	31.03	11.98	43.01	74.00	-30.99	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

RESULT: PASS



Page 34 of 59

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
J.		MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2466.667	32.92	10.39	43.31	74.00	-30.69	peak			
2		3666.667	29.12	13.14	42.26	74.00	-31.74	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

RESULT: PASS



Page 35 of 59

RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE 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		2558.333	33.51	10.57	44.08	74.00	-29.92	peak			
2		3758.333	30.33	13.70	44.03	74.00	-29.97	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

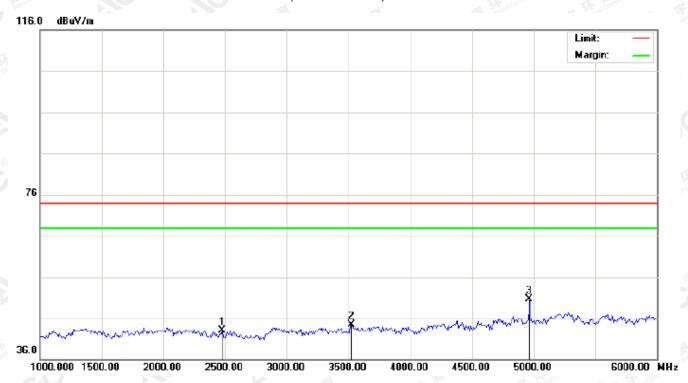
RESULT: PASS

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Page 36 of 59

RADIATED EMISSION TEST- (ABOVE 1GHz)-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		2475.000	32.73	10.40	43.13	74.00	-30.87	peak			
2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

DECILIT: DACC

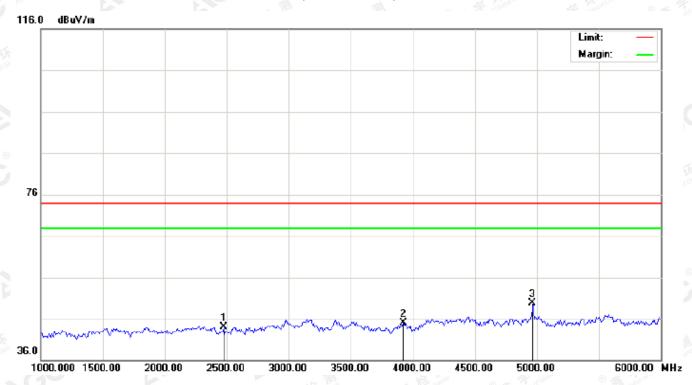
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Attestation of Global Compliance



Page 37 of 59

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



N	lo.	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		2475.000	33.61	10.40	44.01	74.00	-29.99	peak			
	2		3925.000	30.33	14.73	45.06	74.00	-28.94	peak			
	3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	peak			

RESULT: PASS

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

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

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

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Page 38 of 59

10. BAND EDGE EMISSION

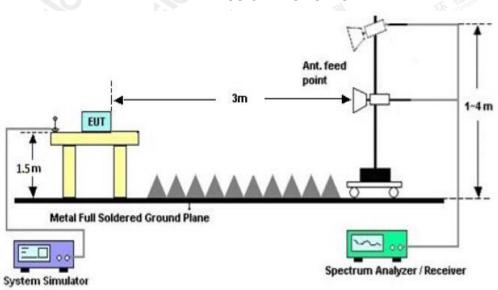
10.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)	Stop frequency(MHz)				
2200	2405				
2478	2500				

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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age 39 of 59

10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR 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		2379.375	31.42	10.30	41.72	74.00	-32.28	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	81.78	10.32	92.10	74.00	18.10	peak			
5	Х	2402.000	73.58	10.32	83.90	74.00	9.90	AVG	100	354	

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Page 40 of 59

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



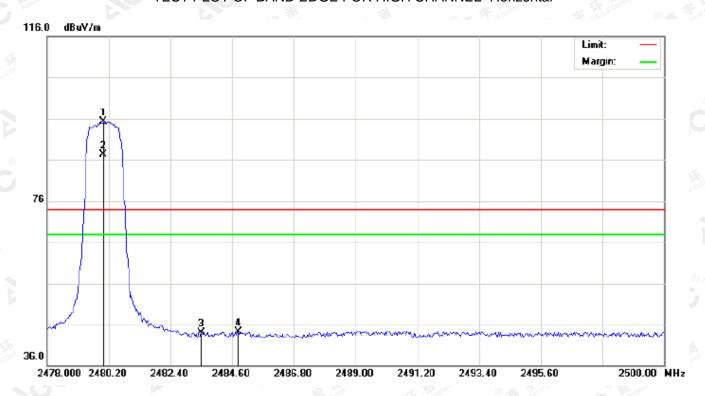
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	cm degree	
1		2381.083	31.45	10.30	41.75	74.00	-32.25	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	81.40	10.32	91.72	74.00	17.72	peak			
5	Х	2402.000	72.27	10.32	82.59	74.00	8.59	AVG	100	147	

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Page 41 of 59

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



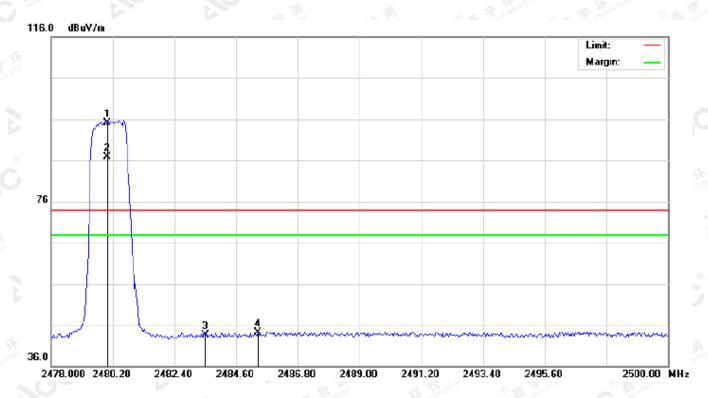
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	84.99	10.41	95.40	74.00	21.40	peak			
2	Х	2480.000	76.80	10.41	87.21	74.00	13.21	AVG	100	312	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2484.820	33.86	10.41	44.27	74.00	-29.73	peak			

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Page 42 of 59

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	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	2480.000	84.70	10.41	95.11	74.00	21.11	peak			
2	Х	2480.000	76.47	10.41	86.88	74.00	12.88	AVG	100	125	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.370	33.89	10.41	44.30	74.00	-29.70	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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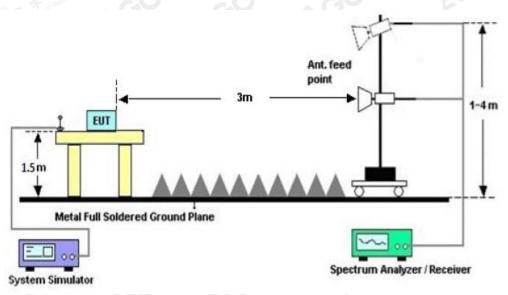
Page 43 of 59

11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

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

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

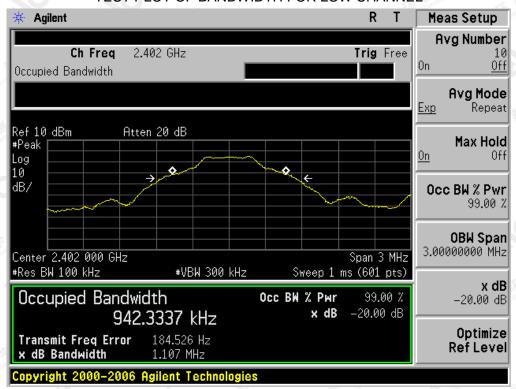
FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		D l							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
Goden Committee (8) Millenton W	Low Channel	0.942	1.107	PASS					
N/A	Middle Channel	0.925	1.081	PASS					
700	High Channel	0.946	1.111	PASS					

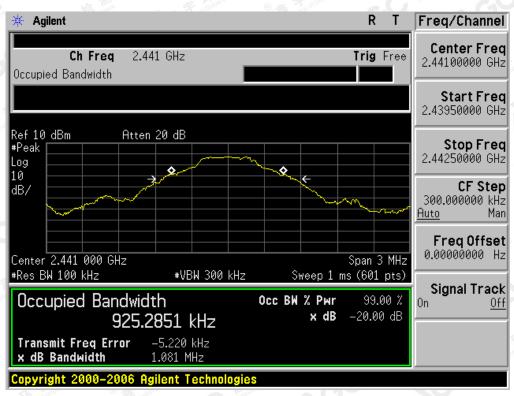
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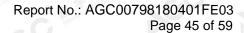
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

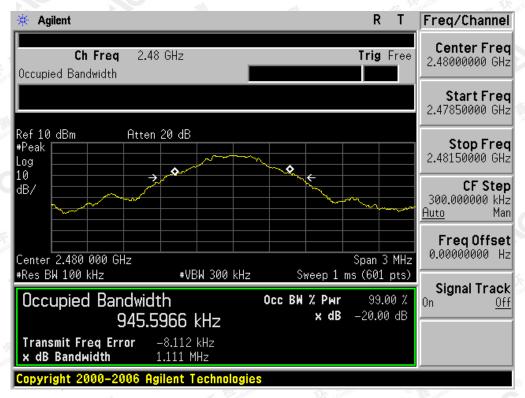


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

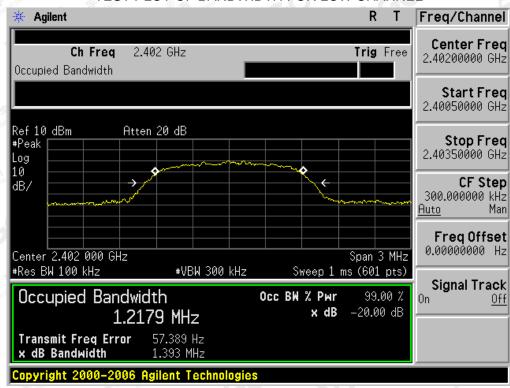


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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		D. codf						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
不是那 不是那	Low Channel	1.218	1.393	PASS				
N/A	Middle Channel	1.208	1.372	PASS				
	High Channel	1.212	1.370	PASS				

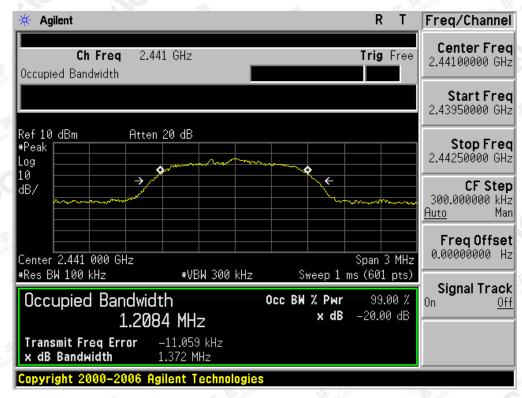
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



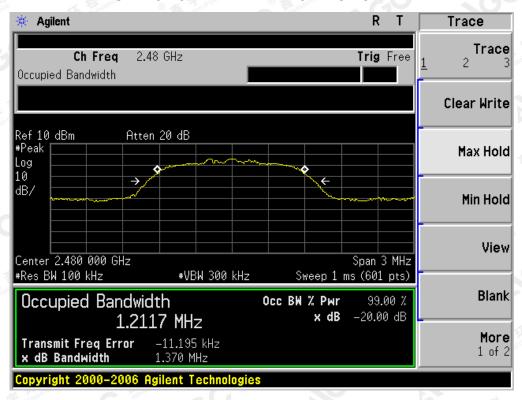
The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

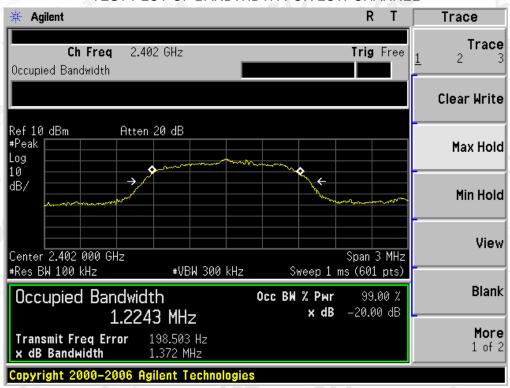


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211122		41TO AND MEAGUE	DEMENT DESCRIPT						
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT									
		Measure	ement Result						
Applicable Limits		Doort							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
TO THE	Low Channel	1.224	1.372	PASS					
N/A	Middle Channel	1.228	1.374	PASS					
	High Channel	1.222	1.374	PASS					

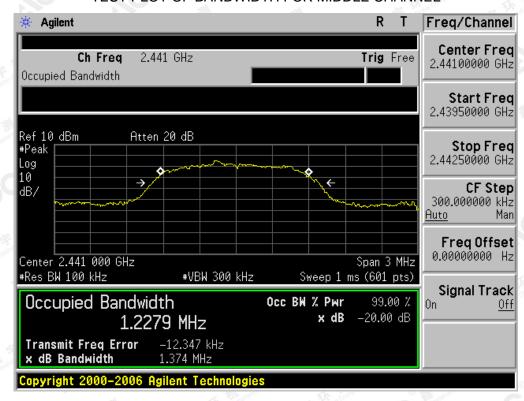
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



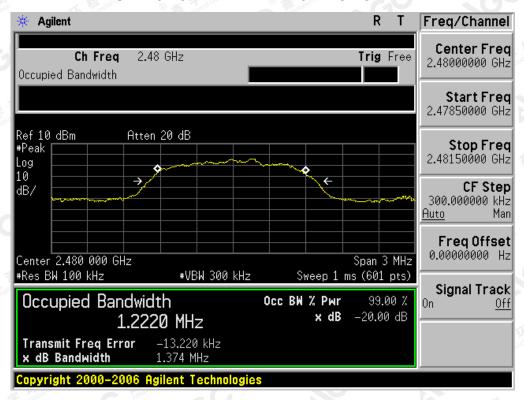
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 50 of 59

12. FCC LINE CONDUCTED EMISSION TEST

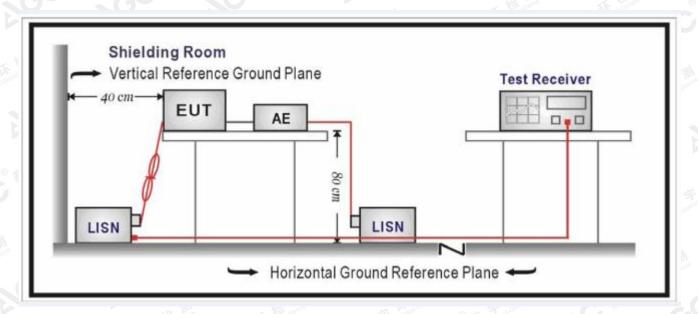
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	8 gg 200 56 gg 100 00 00 00 00 00 00 00 00 00 00 00 00	46 / W						
5MHz~30MHz	60	50						

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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Page 51 of 59

12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

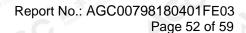
- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used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

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

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

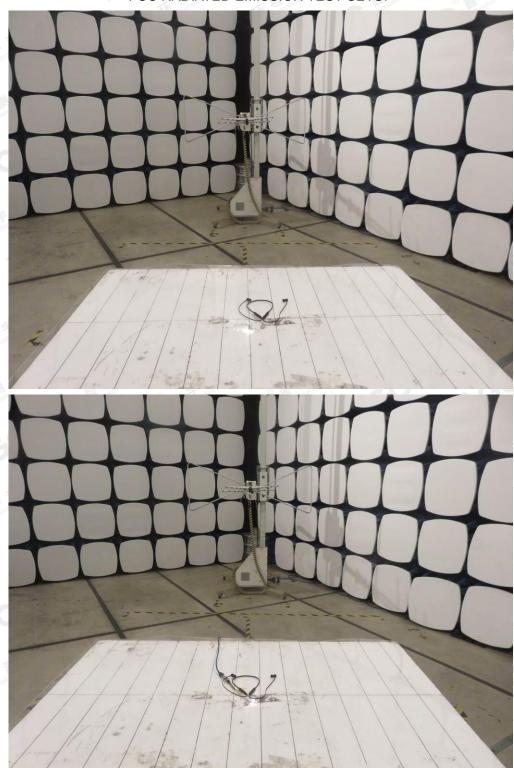
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

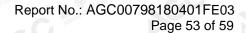
FCC RADIATED EMISSION TEST SETUP



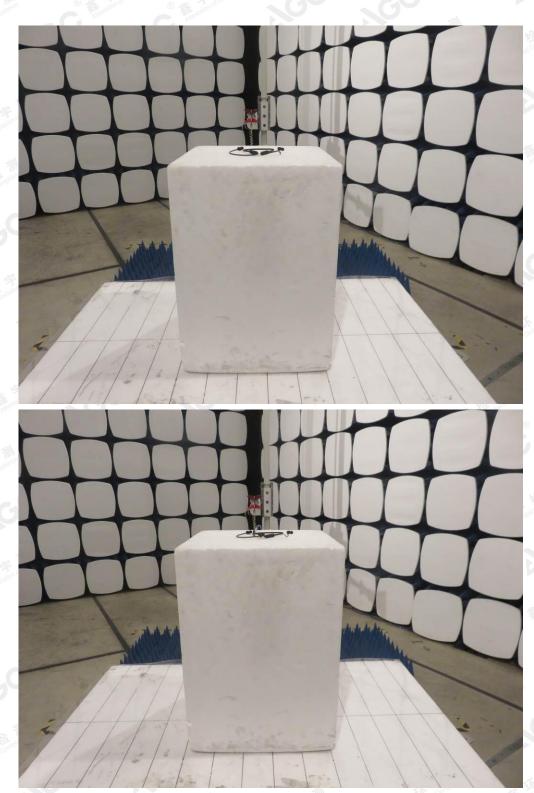
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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (Port)



OPEN VIEW OF EUT



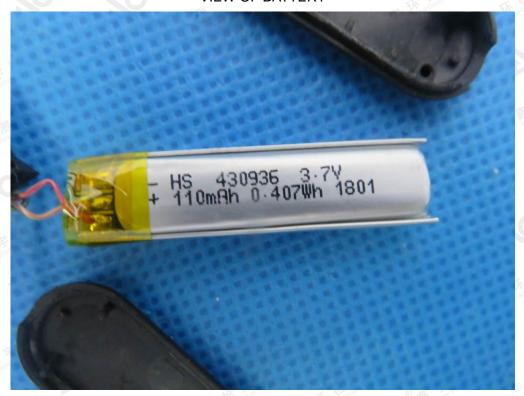
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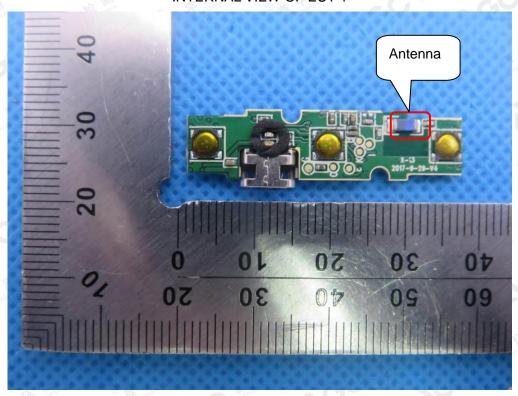
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



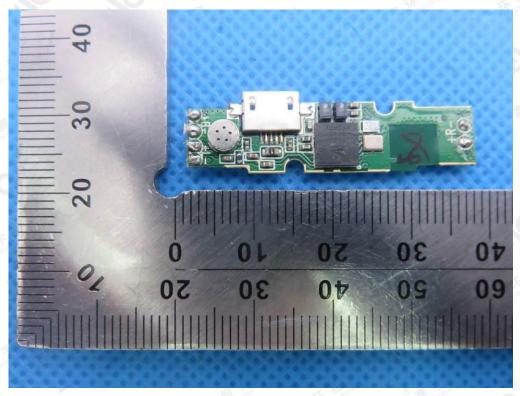
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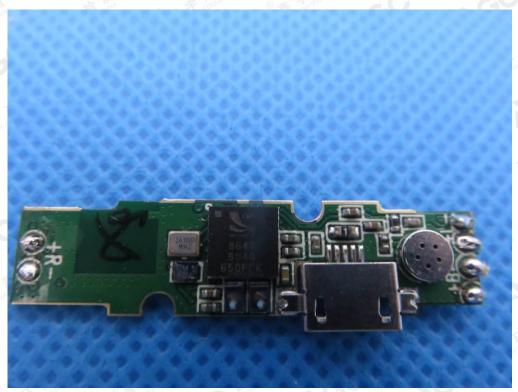
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----

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