

FCC Test Report

Report No.: AGC01518180701FE03

FCC ID : 2AMNM-NC32

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Bluetooth headset

BRAND NAME : Linner

MODEL NAME : NC32

CLIENT: Shenzhen shengyuan tech co.ltd

DATE OF ISSUE : Jul 30, 2018

STANDARD(S)

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

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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Page 2 of 60

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience / © Mile	Jul. 30, 2018	Valid	Initial release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM	8 8 9
6. TEST FACILITY	10
7.TEST METHOD	11
8. TEST EQUIPMENT LIST	11
9. RADIATED EMISSION	12
9.1TEST LIMIT	12
9.11EST LIMIT 9.2. MEASUREMENT PROCEDURE	12 13
9.3. TEST SETUP 9.4. TEST RESULT	15
10. BAND EDGE EMISSION	
10.1. MEASUREMENT PROCEDURE	
10.2 TEST SETUP 10.3 RADIATED TEST RESULT	38 39
11. 20DB BANDWIDTH	13
11.1. MEASUREMENT PROCEDURE	42
11.2. TEST SET-UP	
11.3. LIMITS AND MEASUREMENT RESULTS	43
12. FCC LINE CONDUCTED EMISSION TEST	50
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	50
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	50
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	51
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	51 51
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B. PHOTOGRAPHS OF FUT	54



1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen shengyuan tech co.ltd
Address	309/Block C, Lan Guang Tech Park, No.6 Rd of Gaoxin North, Nanshan District, Shenzhen, China
Manufacturer	Shenzhen shengyuan tech co.ltd
Address	309/Block C, Lan Guang Tech Park, No.6 Rd of Gaoxin North, Nanshan District, Shenzhen, China
Product Designation	Bluetooth headset
Brand Name	Linner State of the state of th
Test Model	NC32
Date of test	Jul. 18, 2018 to Jul. 23, 2018
Deviation	None
Condition of Test Sample	Normal Section 1
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		Jowhen Wang	
C	Jonhen War	ng(Wang Yonghuan)	Jul. 23, 2018
Reviewed By	The State of the s	cust change	Manufacture of Conduction Company
FCC in	Cool Chenç	g(Cheng Mengguo)	Jul. 30, 2018
Approved By		Forest ce	
C		ei(Lei Yonggang) orized Officer	Jul. 30, 2018

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Page 5 of 60

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
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V3
Software Version	V14
Antenna Designation	Ceramic Antenna
Antenna Gain	2.48dBi
Power Supply	DC 3.7V by battery
15 John 160.	nly used for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency	
1 GC	0	2402MHz	
70	1 # 5.	2403MHz	
E Coota Compliance	-CO		
C Minesterior	38	2440 MHz	
2400~2483.5MHz	39	2441 MHz	
· 利	40	2442 MHz	
of Gold Complaint & Milestation of S.	-C		
NGO D	77	2479 MHz	
	78	2480 MHz	



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

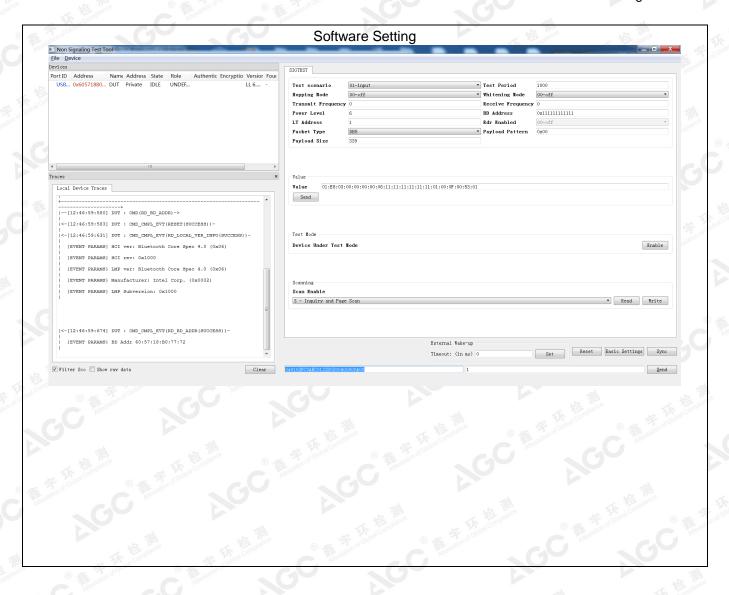
4. DESCRIPTION OF TEST MODES

		-till I've Comp.	A THE STATE OF THE
NO.		TEST MODE DESCRIPTION	ON
@ ### Tool Good @	Milestation of Grown	Low channel GFSK	
2 2	100	Middle channel GFSK	拉那
3	10	High channel GFSK	a and a state of the state of t
4 1	S SE JEON COODS CO	Low channel π /4-DQPS	K
® Age 5 and Cloud	CC CC	Middle channel π /4-DQPS	SK A
6	- A	High channel π /4-DQPS	K Francisco
7	The state of the s	Low channel 8DPSK	Autor CO
8 8 Martin	GC Allestin	Middle channel 8DPSK	:111
9	P. P.	High channel 8DPSK	The Action Companies
10	11/10	BT Link	C American
Alta Property	C F	and the second s	

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 60

5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

_	A Sept allalia	
	EUT	
1		

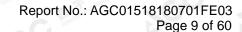
Configure 2: (Control continuous TX)

A Profit	*	oal Con	AllO!
EUT	Con	trol box	PC

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth headset	Linner	NC32	EUT
2	Battery	JYZ	551040	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	SERIAL	N/A	A.E
5	IPOD	APPLE	A1367	A.E.C
6	USB Cable	N/A	1m unshielded	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.



Page 10 of 60

6. TEST FACILITY

Title .	and the second of the second o		
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		



Page 11 of 60

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
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019

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Page 12 of 60

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 Str	engths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	9
0.490 ~ 1.705	30	24000/F(kHz)	技訓
1.705 ~ 30	30	30 (1)	E Cobaco (Color of Color of Co
30 ~ 88	3 F 1000	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. I	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 60

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 60

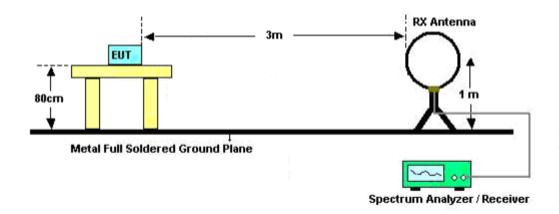
The following table is the setting of spectrum analyzer and receiver.

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

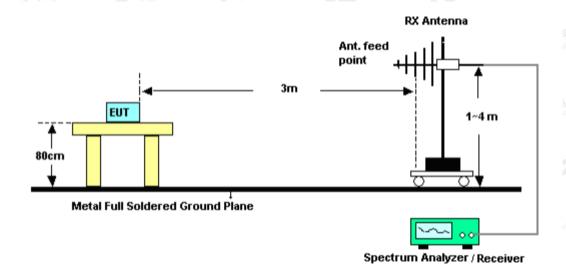


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



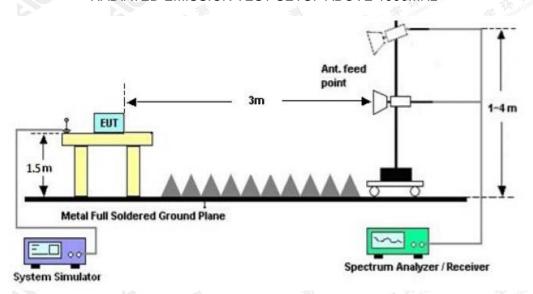
RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 17 of 60

9.4. TEST RESULT

FOR BR/EDR

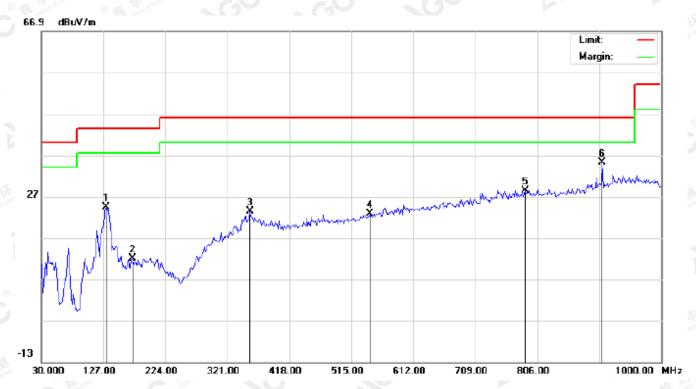
(Worst modulation: GFSK)

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

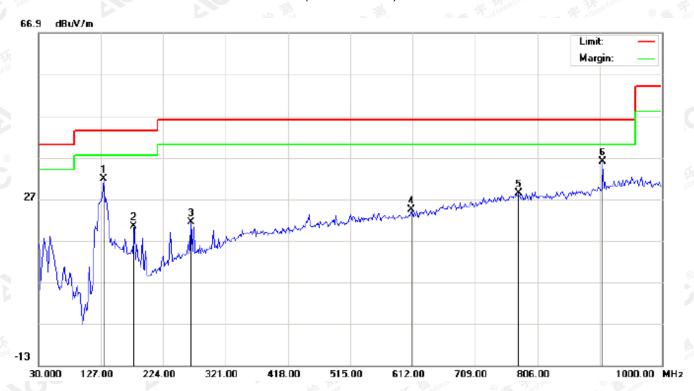


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		131.8500	13.01	11.39	24.40	43.50	-19.10	peak			
2		172.2667	1.24	10.78	12.02	43.50	-31.48	peak			
3		356.5667	4.58	18.78	23.36	46.00	-22.64	peak			
4		544.1000	0.50	22.32	22.82	46.00	-23.18	peak			
5		786.6000	1.25	27.14	28.39	46.00	-17.61	peak			
6	*	907.8500	6.36	28.83	35.19	46.00	-10.81	peak			

RESULT: PASS



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	dBu∀/m	dB		cm	degree	
1		131.8500	20.02	11.80	31.82	43.50	-11.68	peak			
2		178.7332	6.29	14.15	20.44	43.50	-23.06	peak			
3		267.6500	7.07	14.43	21.50	46.00	-24.50	peak			
4		610.3832	1.40	22.96	24.36	46.00	-21.64	peak			
5		776.9000	1.50	27.00	28.50	46.00	-17.50	peak			
6	*	907.8500	7.08	28.83	35.91	46.00	-10.09	peak			

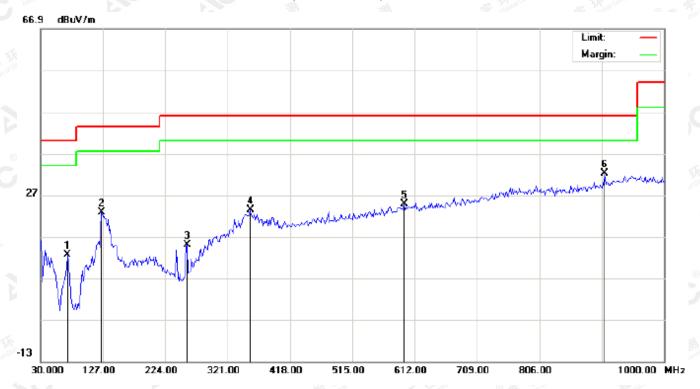
RESULT: PASS

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

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



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



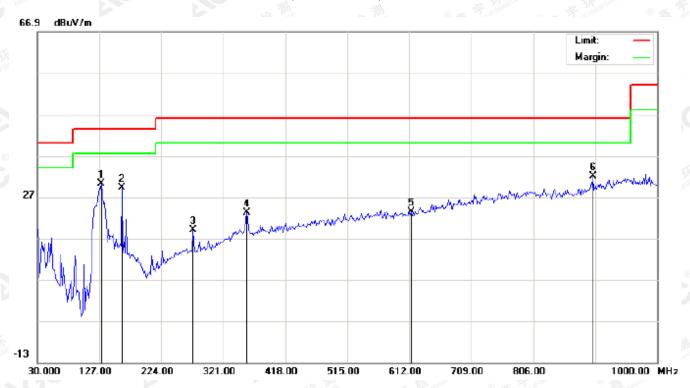
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		72.0332	4.32	8.28	12.60	40.00	-27.40	peak			
2		125.3833	14.36	8.37	22.73	43.50	-20.77	peak			
3		257.9499	6.75	8.25	15.00	46.00	-31.00	peak			
4		356.5667	4.54	18.78	23.32	46.00	-22.68	peak			
5		595.8333	1.11	23.63	24.74	46.00	-21.26	peak			
6	*	907.8500	3.39	28.83	32.22	46.00	-13.78	peak			

RESULT: PASS

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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	19.07	11.13	30.20	43.50	-13.30	peak			
2		162.5667	14.08	15.17	29.25	43.50	-14.25	peak			
3		274.1167	4.44	14.63	19.07	46.00	-26.93	peak			
4		358.1832	4.32	18.79	23.11	46.00	-22.89	peak			
5		615.2333	0.32	23.07	23.39	46.00	-22.61	peak			
6		899.7667	3.48	28.60	32.08	46.00	-13.92	peak			

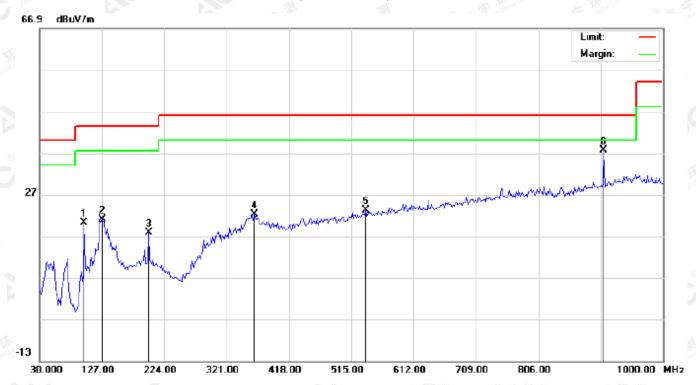
RESULT: PASS

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

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



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



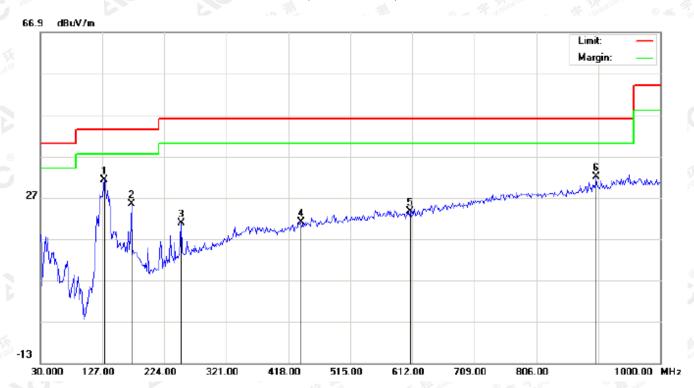
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		99.5167	10.26	10.00	20.26	43.50	-23.24	peak			
2		127.0000	11.95	9.13	21.08	43.50	-22.42	peak			
3		199.7500	5.74	11.99	17.73	43.50	-25.77	peak			
4		364.6499	3.32	18.84	22.16	46.00	-23.84	peak			
5		537.6332	1.06	22.15	23.21	46.00	-22.79	peak			
6	*	907.8500	8.76	28.83	37.59	46.00	-8.41	peak			

RESULT: PASS

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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	20.17	11.13	31.30	43.50	-12.20	peak			
2		172.2667	10.92	14.56	25.48	43.50	-18.02	peak			
3		249.8667	6.99	13.89	20.88	46.00	-25.12	peak			
4		437.4000	0.74	20.21	20.95	46.00	-25.05	peak			
5		608.7667	0.60	22.93	23.53	46.00	-22.47	peak			
6		899.7667	3.35	28.60	31.95	46.00	-14.05	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 60

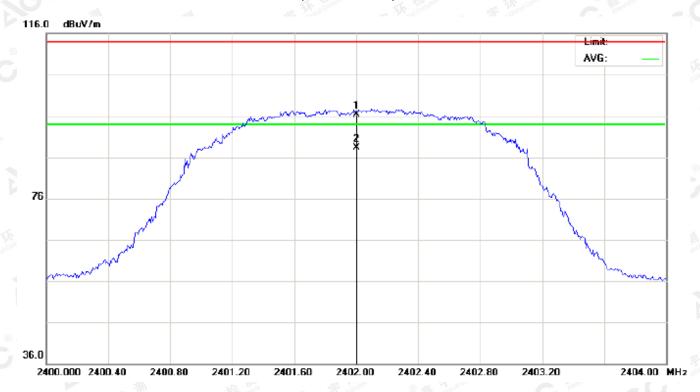
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: GFSK)

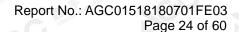
For Fundamental

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



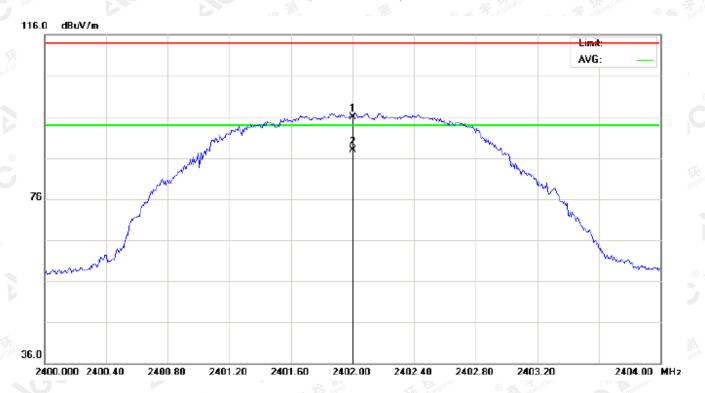
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	86.06	10.32	96.38	114.00	-17.62	peak			
2	*	2402.000	78.07	10.32	88.39	94.00	-5.61	AVG	100	39	

RESULT: PASS





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

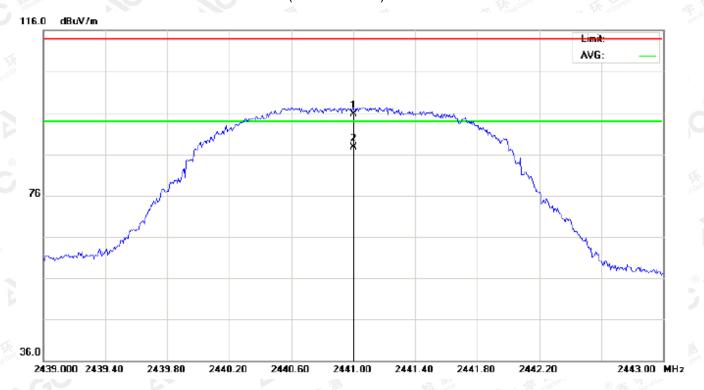


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	85.58	10.32	95.90	114.00	-18.10	peak			
2	*	2402.000	77.63	10.32	87.95	94.00	-6.05	AVG	100	255	

RESULT: PASS



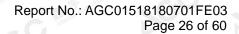
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	85.30	10.36	95.66	114.00	-18.34	peak			
2	*	2441.000	77.36	10.36	87.72	94.00	-6.28	AVG	100	39	

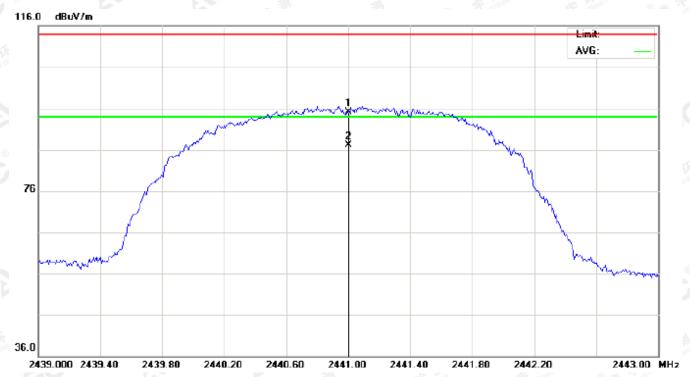
RESULT: PASS

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



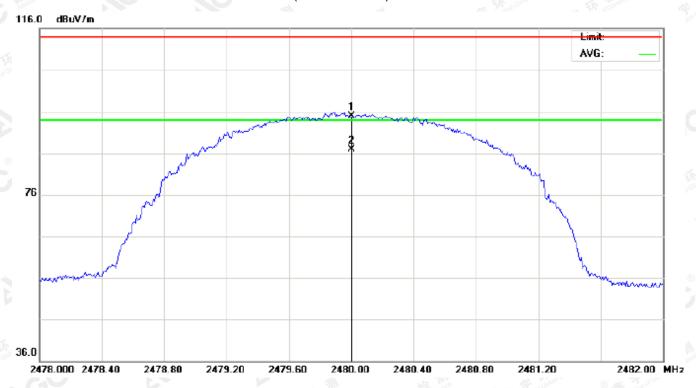
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	84.82	10.36	95.18	114.00	-18.82	peak			
2	*	2441.000	76.81	10.36	87.17	94.00	-6.83	AVG	100	259	

RESULT: PASS

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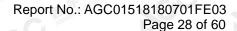
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m dB		cm c	degree		
1		2480.000	84.53	10.41	94.94	114.00	-19.06	peak			
2	*	2480.000	76.55	10.41	86.96	94.00	-7.04	AVG	100	30	

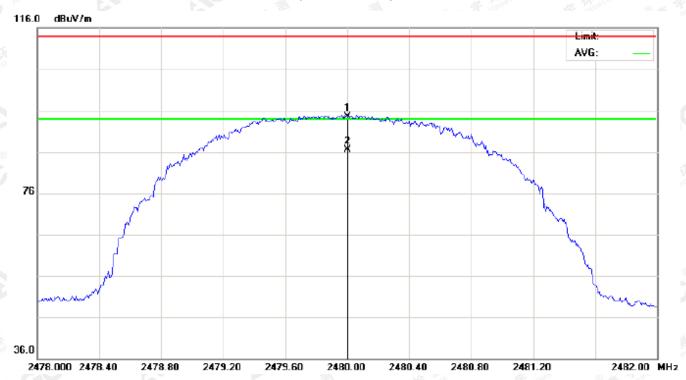
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	84.07	10.41	94.48	114.00	-19.52	peak			
2	*	2480.000	76.05	10.41	86.46	94.00	-7.54	AVG	100	256	

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 60

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	86.06	10.32	96.38	114	-17.62	Horizontal	
2402	85.58	10.32	95.90	114	-18.10	Vertical	
2441	85.30	10.36	95.66	114	-18.34	Horizontal	
2441	84.82	10.36	95.18	114	-18.82	Vertical	
2480	84.53	10.41	94.94	114	-19.06	Horizontal	
2480	84.07	10.41	94.48	114	-19.52	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.07	10.32	88.39	94	-5.61	Horizontal	
2402	77.63	10.32	87.95	94	-6.05	Vertical	
2441	77.36	10.36	87.72	94	-6.28	Horizontal	
2441	76.81	10.36	87.17	94	-6.83	Vertical	
2480	76.55	10.41	86.96	94	-7.04	Horizontal	
2480	76.05	10.41	86.46	94	-7.54	Vertical	



Page 30 of 60

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.75	10.32	96.07	114	-17.93	Horizontal
2402	85.17	10.32	95.49	114	-18.51	Vertical
2441	84.93	10.36	95.29	114	-18.71	Horizontal
2441	84.50	10.36	94.86	114	-19.14	Vertical
2480	84.07	10.41	94.48	114	-19.52	Horizontal
2480	83.61	10.41	94.02	114	-19.98	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	77.58	10.32	87.90	94	-6.10	Horizontal	
2402	77.32	10.32	87.64	94	-6.36	Vertical	
2441	76.99	10.36	87.35	94	-6.65	Horizontal	
2441	76.47	10.36	86.83	94	-7.17	Vertical	
2480	76.21	10.41	86.62	94	-7.38	Horizontal	
2480	75.56	10.41	85.97	94	-8.03	Vertical	



Page 31 of 60

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.35	10.32	95.67	114	-18.33	Horizontal
2402	84.87	10.32	95.19	114	-18.81	Vertical
2441	84.61	10.36	94.97	114	-19.03	Horizontal
2441	84.18	10.36	94.54	114	-19.46	Vertical
2480	83.59	10.41	94.00	114	-20.00	Horizontal
2480	83.18	10.41	93.59	114	-20.41	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.25	10.32	87.57	94	-6.43	Horizontal
2402	76.89	10.32	87.21	94	-6.79	Vertical
2441	76.62	10.36	86.98	94	-7.02	Horizontal
2441	76.05	10.36	86.41	94	-7.59	Vertical
2480	75.85	10.41	86.26	94	-7.74	Horizontal
2480	75.22	10.41	85.63	94	-8.37	Vertical



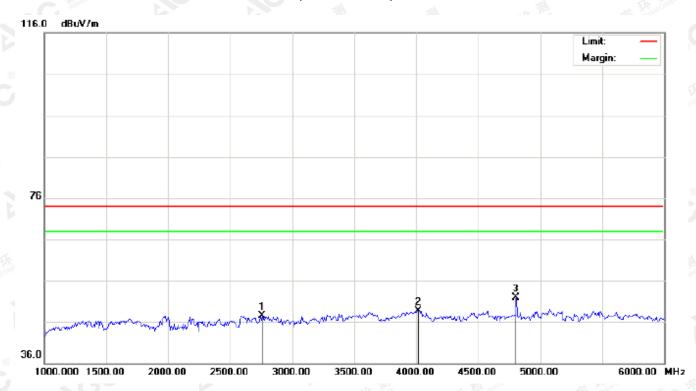
age 32 of 60

FOR BR/EDR

(Worst modulation: GFSK)

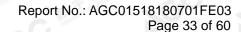
For Harmonics

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



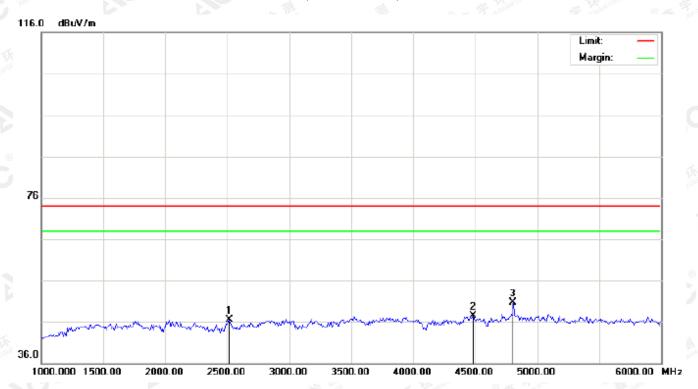
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2758.333	36.50	11.06	47.56	74.00	-26.44	peak			
2		4016.667	33.85	14.91	48.76	74.00	-25.24	peak			
3	*	4804.000	44.21	7.69	51.90	74.00	-22.10	peak			

RESULT: PASS





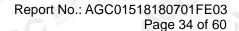
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



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		2516.667	36.06	10.47	46.53	74.00	-27.47	peak			
2		4483.333	40.42	7.17	47.59	74.00	-26.41	peak			
3	*	4804.000	43.05	7.69	50.74	74.00	-23.26	peak			

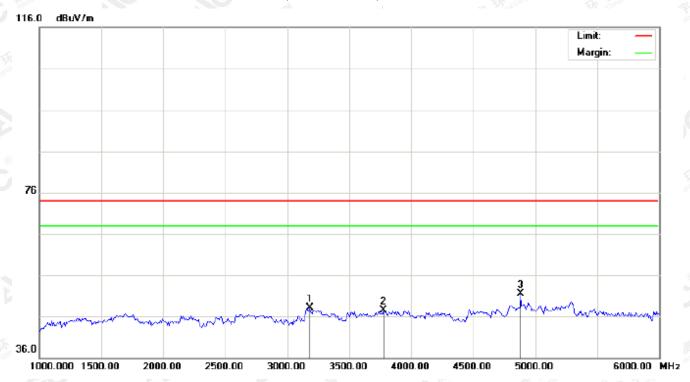
RESULT: PASS

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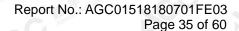
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		3183.333	36.25	11.81	48.06	74.00	-25.94	peak			
2		3775.000	33.65	13.80	47.45	74.00	-26.55	peak			
3	*	4882.000	43.66	7.89	51.55	74.00	-22.45	peak			

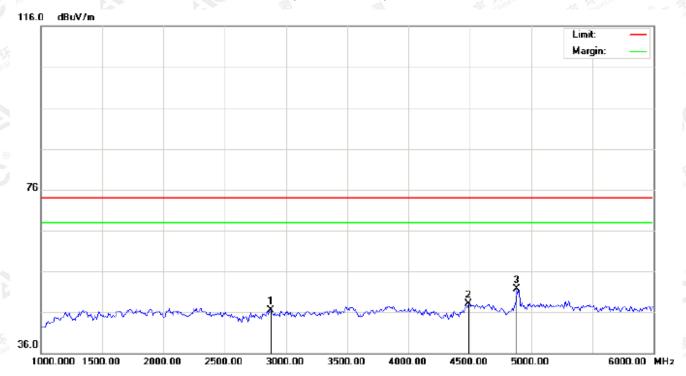
RESULT: PASS

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



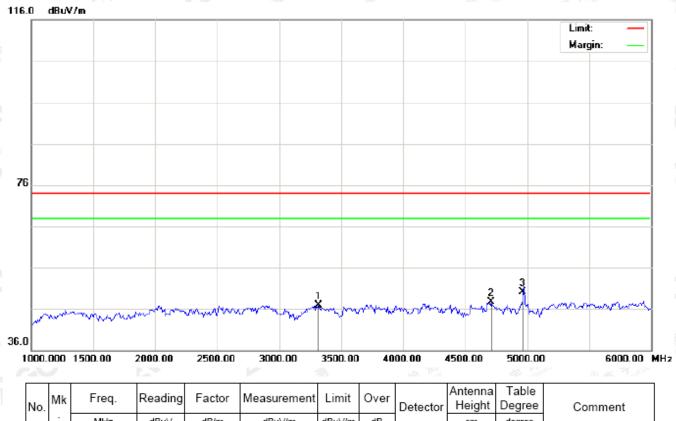
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2875.000	35.15	11.34	46.49	74.00	-27.51	peak			
2		4491.667	41.14	7.03	48.17	74.00	-25.83	peak			
3	*	4882.000	43.89	7.89	51.78	74.00	-22.22	peak			

RESULT: PASS

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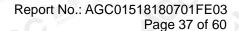
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



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		3316.667	35.06	11.94	47.00	74.00	-27.00	peak			
2		4708.333	40.33	7.44	47.77	74.00	-26.23	peak			
3	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

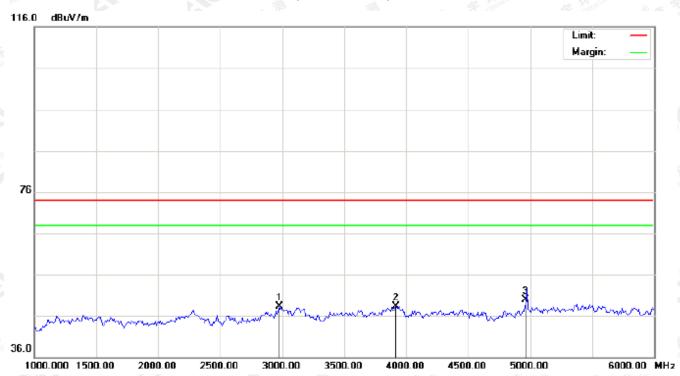
RESULT. PASS

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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	dBu∀/m	dB		cm	degree]
1		2975.000	36.70	11.58	48.28	74.00	-25.72	peak			
2		3916.667	33.62	14.68	48.30	74.00	-25.70	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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10. BAND EDGE EMISSION

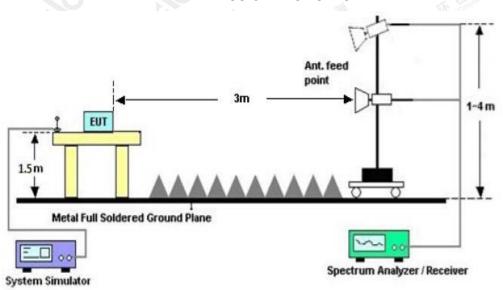
10.1. MEASUREMENT PROCEDURE

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

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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Report No.: AGC01518180701FE03

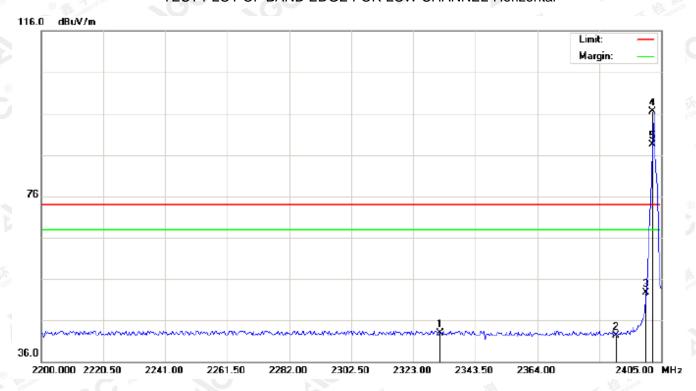
Page 39 of 60

10.3 RADIATED TEST RESULT

FOR BR/EDR

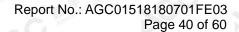
(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



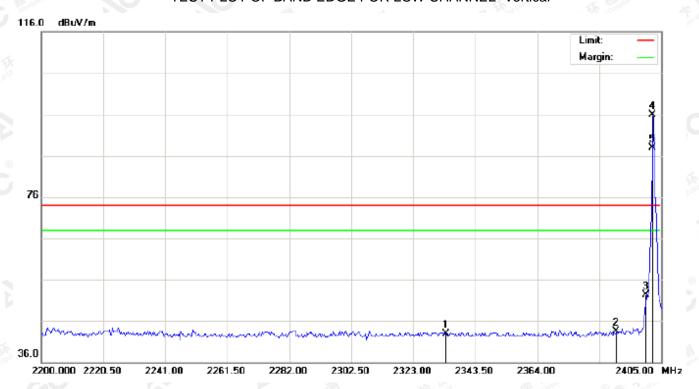
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu√/m	dBu∀/m	dB		cm	degree	
1		2331.883	32.68	10.24	42.92	74.00	-31.08	peak			
2		2390.000	32.00	10.31	42.31	74.00	-31.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	86.10	10.32	96.42	74.00	22.42	peak			
5	Х	2402.000	78.13	10.32	88.45	74.00	14.45	AVG	100	38	

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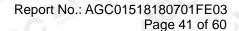


TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



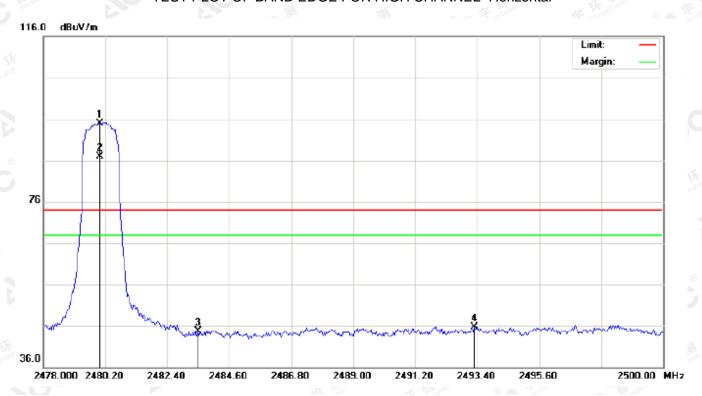
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		2333.933	32.58	10.25	42.83	74.00	-31.17	peak			
2		2390.000	33.21	10.31	43.52	74.00	-30.48	peak			
3		2400.000	42.06	10.32	52.38	74.00	-21.62	peak			
4	*	2402.000	85.58	10.32	95.90	74.00	21.90	peak			
5	Х	2402.000	77.63	10.32	87.95	74.00	13.95	AVG	100	257	

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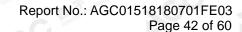


TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



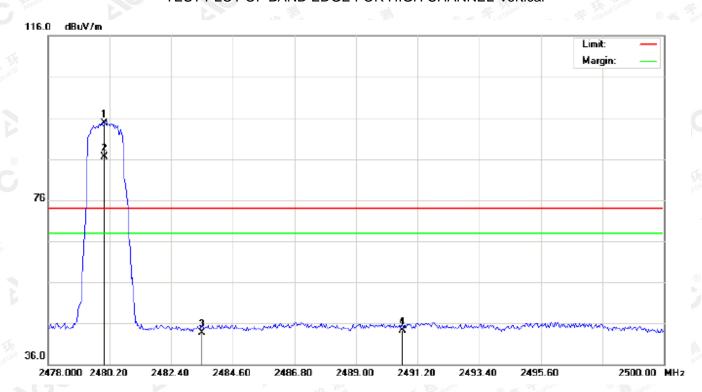
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	84.55	10.41	94.96	74.00	20.96	peak			
2	Х	2480.000	76.55	10.41	86.96	74.00	12.96	AVG	100	35	
3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
4		2493.289	35.35	10.42	45.77	74.00	-28.23	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	84.32	10.41	94.73	74.00	20.73	peak			
2	Х	2480.000	76.05	10.41	86.46	74.00	12.46	AVG	100	251	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2490.650	33.87	10.42	44.29	74.00	-29.71	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.

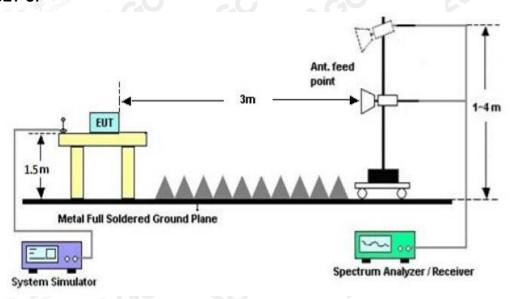


11. 20DB BANDWIDTH

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								
		Measure	ement Result					
Applicable Limits		Danill .						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
Solar Complete (8) Afficiality of the solar complete (1) Afficación (1)	Low Channel	0.951	1.113	PASS				
N/A	Middle Channel	0.958	1.111	PASS				
	High Channel	0.945	1.117	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.

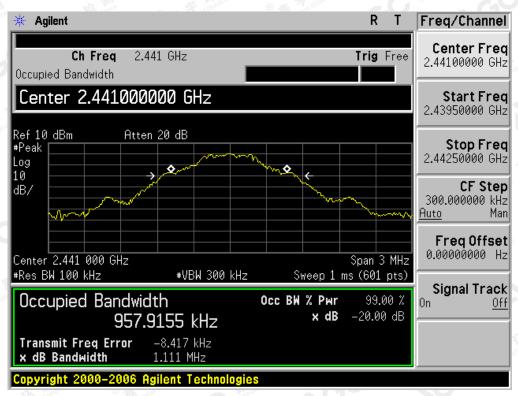




TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

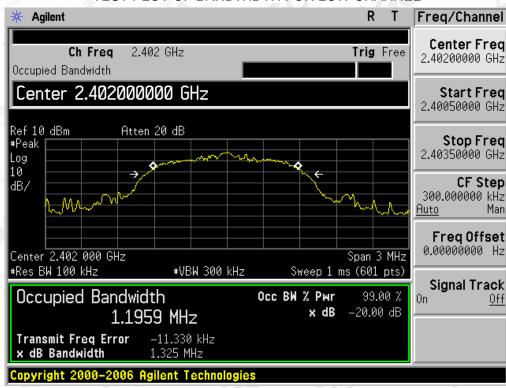


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PLUET	OTH SMPDS LIN	MITS AND MEASIL	DEMENT DECLII T				
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result							
Applicable Limits		5 "					
		99%OBW (MHz)	-20dB BW(MHz)	Result			
不是那	Low Channel	1.196	1.325	PASS			
N/A	Middle Channel	1.194	1.339	PASS			
	High Channel	1.196	1.322	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



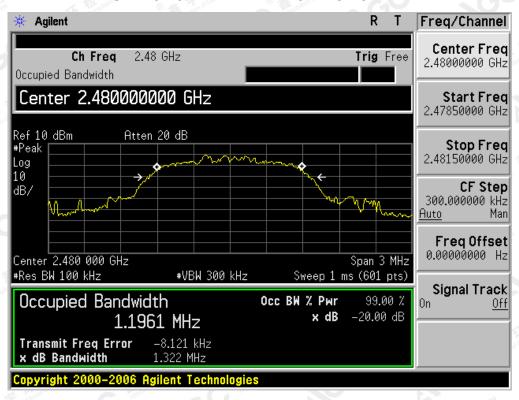
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT								
		Measurement Result						
Applicable Limits		Decult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
下 整 测 不 整 测 1	Low Channel	1.193	1.339	PASS				
N/A	Middle Channel	1.203	1.328	PASS				
	High Channel	1.226	1.357	PASS				

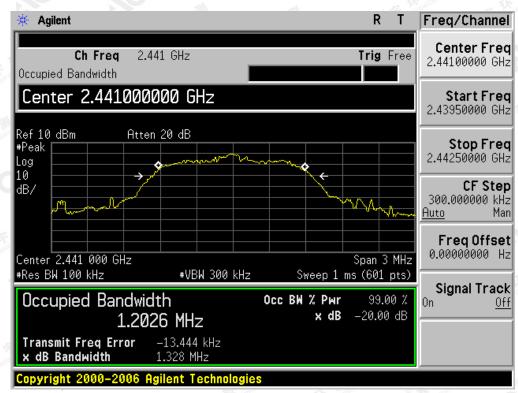
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



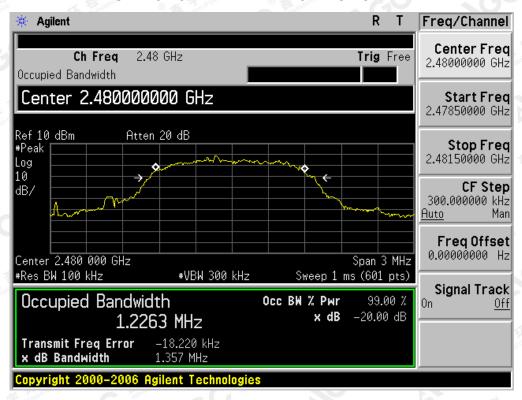
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

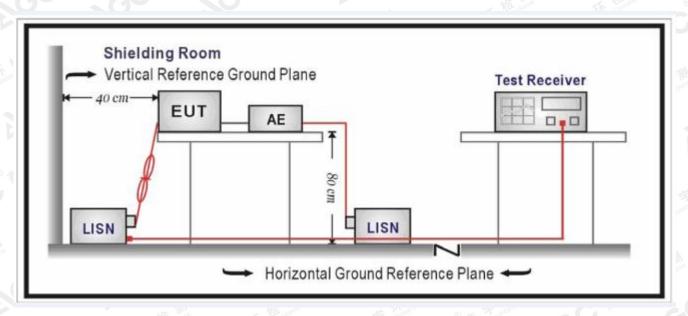
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	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



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Report No.: AGC01518180701FE03

Page 51 of 60

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.
- 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

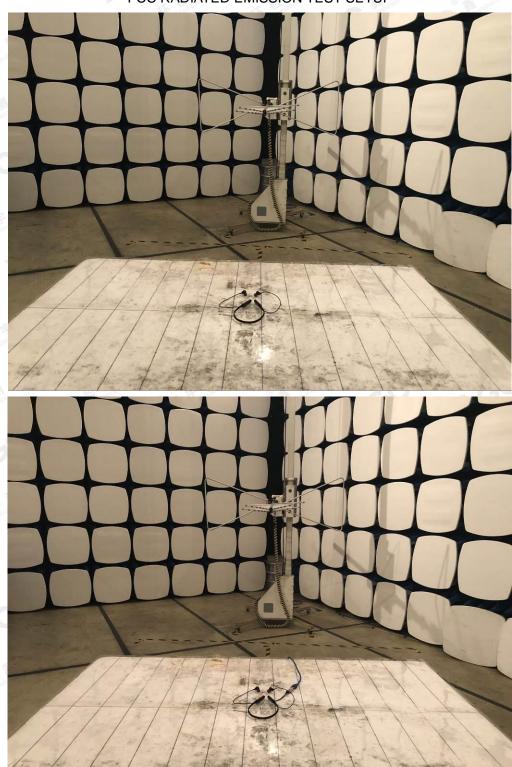
Note: The BT function of EUT didn't work when charging.

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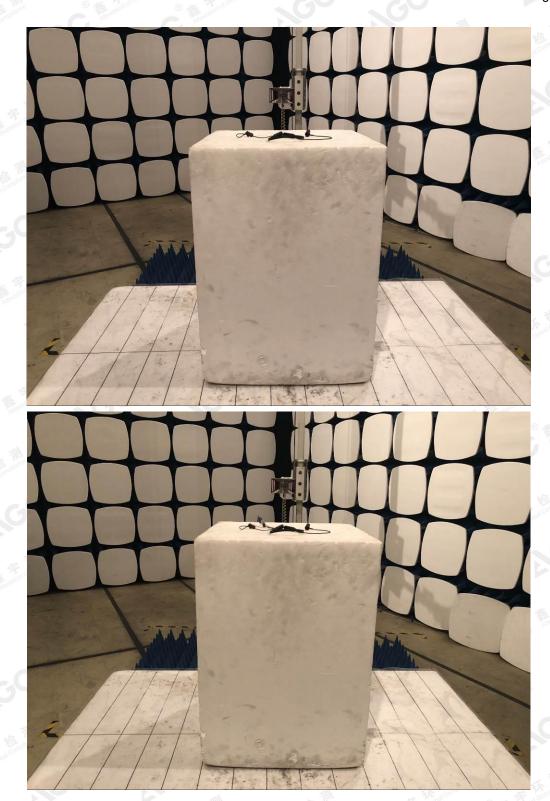
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

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)-1



VIEW OF EUT (PORT)-2



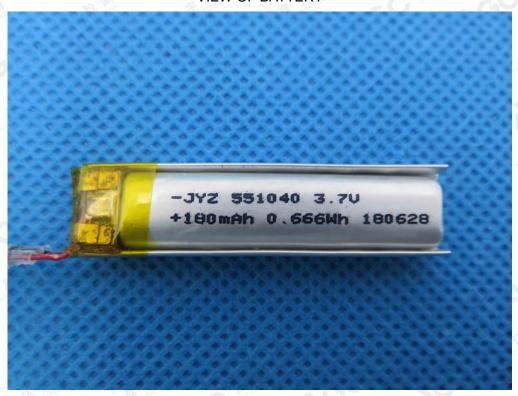
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OPEN VIEW OF EUT



VIEW OF BATTERY



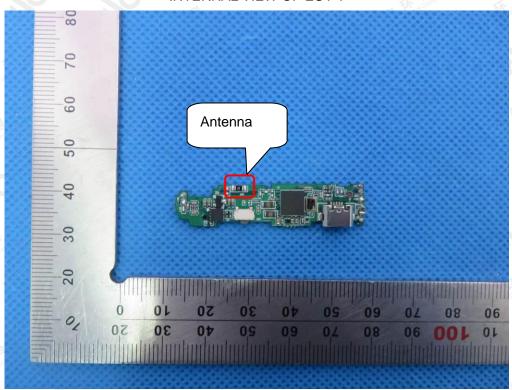
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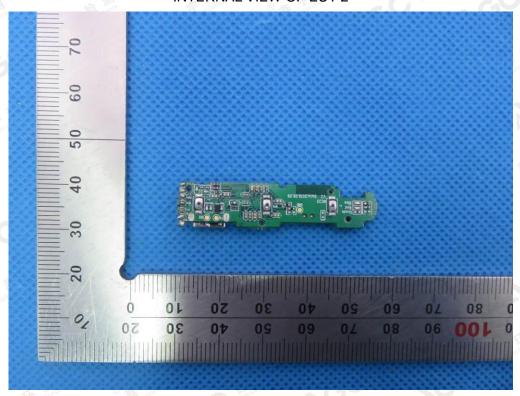
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



----END OF REPORT----

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