

FCC Test Report

Report No.: AGC00805180501FE03

FCC ID : 2ACB3-L1M

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: L1M Wireless Headset

BRAND NAME : FreedConn

MODEL NAME : L1M

CLIENT: ShenZhen FreedConn(FDC) Electronics Co., Ltd

DATE OF ISSUE : June 01, 2018

STANDARD(S)

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

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC 3

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience / © Mile	June 01, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	ShenZhen FreedConn(FDC) Electronics Co., Ltd
Address	6th Floor, Wanlihua Industrial Park, Gushu 2nd Road, Gushu Community, Xixiang Street, BaoAn District, Shenzhen, China
Manufacturer	ShenZhen FreedConn(FDC) Electronics Co., Ltd
Address	6th Floor, Wanlihua Industrial Park, Gushu 2nd Road, Gushu Community, Xixiang Street, BaoAn District, Shenzhen, China
Product Designation	L1M Wireless Headset
Brand Name	FreedConn
Test Model	L1M
Date of test	May 16, 2018 to May 28, 2018
Deviation	None
Condition of Test Sample	Normal San Company of the Company of
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	Honry Zhang	
on socied by	Henry Zhang(Zhang Zhuorui)	May 28, 2018
Reviewed By	and change	
	Cool Cheng(Cheng Mengguo)	June 01, 2018
Approved By	Forvesto ei	
Approved by	Forrest Lei(Lei Yonggang) Authorized Officer	June 01, 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	1.11dBm(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
Hardware Version	V1.21
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	sed for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number			Frequency	
NG o	-cil	0 1 1 1	The Complance	2402MHz	® ##
	The Compliance	(S) Salation of Godine	Altestation of Com-	2403MHz	
	a ation of Gibs				
		38		2440 MHz	Clopal Combile
2400~2483.5MHz	· 不包	39	Compilar.	2441 MHz	-0
	(3) All the station of Global	40	C G ME	2442 MHz	
			:10	· 111	事。
	TIME:	77	The Compliance (8)	2479 MHz	Artestation
	The Compliance	78	Allestation C.C.	2480 MHz	

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3. MEASUREMENT UNCERTAINTY

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

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

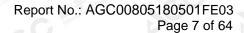
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1 Et a Compliance	Low channel GFSK
2	Middle channel GFSK
3 60	High channel GFSK
4	Low channel π /4-DQPSK
5 1	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9 @ Management	High channel 8DPSK
10	BT Link with charging
11	BT Link

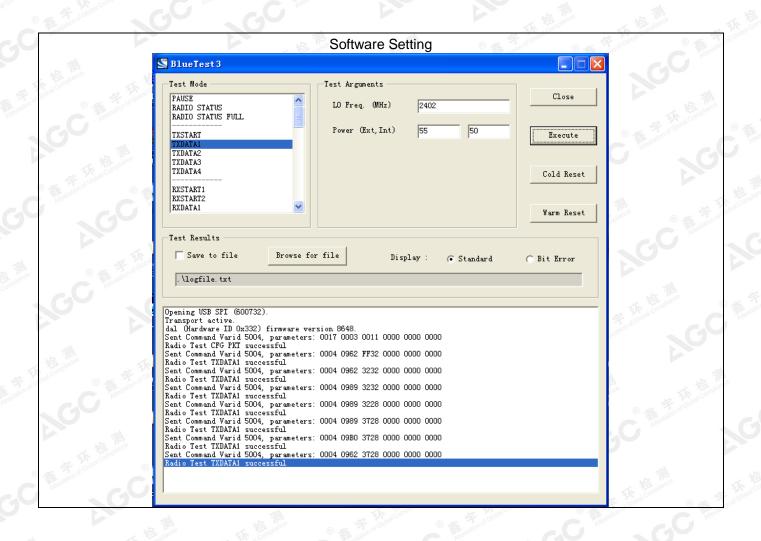
Note

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

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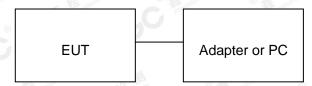


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5. SYSTEM TEST CONFIGURATION

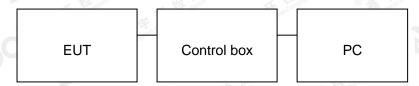
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



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

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	L1M Wireless Headset	FreedConn	L1M	EUT
2	Battery	S AK S S S S S S S S S S S S S S S S S S	601730	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	CSR	USB_SPI_TOOLS	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	USB Cable	N/A	1m unshielded	Accessory
8	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	Compliant
§15.215	Bandwidth	Compliant

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6. TEST FACILITY

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

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	-011	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The state of the s	Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

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

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
(MHz)	Meters	μ V/m	dB(μV)/m				
0.009 ~ 0.490	300	2400/F(kHz)					
0.490 ~ 1.705	30	24000/F(kHz)	电视 不是心				
1.705 ~ 30	30	30	Company of Circumstance of Cir				
30 ~ 88	3	100	40.0				
88 ~ 216	3	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	3 F. F. Standard Community	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(μV)/m				

Remark:

- (1) Emission level dB 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

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

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

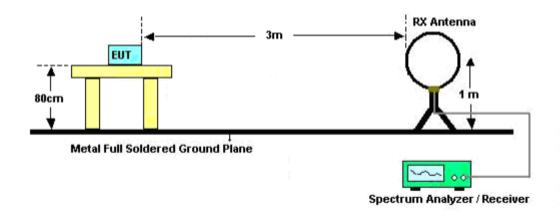
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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

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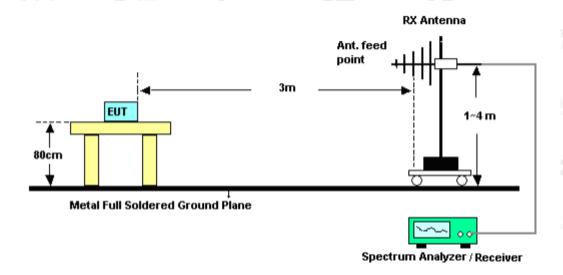


9.3. TEST SETUP

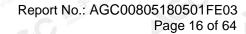
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

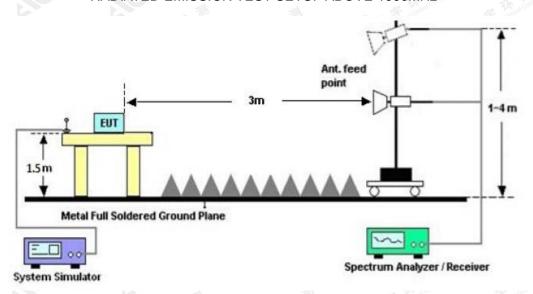


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

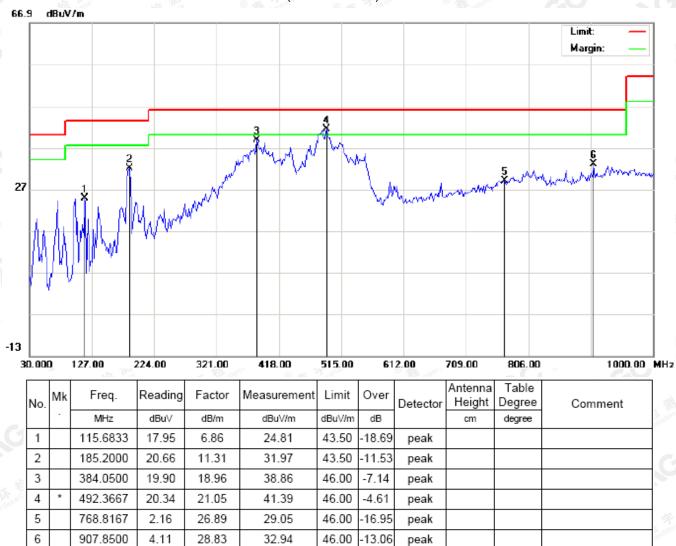
(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

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



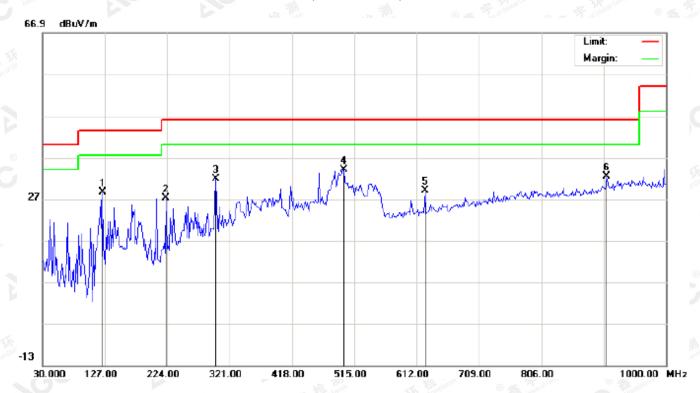
RESULT: PASS

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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		123.7667	20.08	8.43	28.51	43.50	-14.99	peak			
2		222.3833	16.02	11.19	27.21	46.00	-18.79	peak			
3		299.9833	16.36	15.41	31.77	46.00	-14.23	peak			
4	*	498.8333	12.90	21.12	34.02	46.00	-11.98	peak			
5		624.9333	5.71	23.29	29.00	46.00	-17.00	peak			
6		907.8500	3.54	28.83	32.37	46.00	-13.63	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.

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



N	D.	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			101.1333	16.51	10.22	26.73	43.50	-16.77	peak			
2	2		183.5833	19.16	11.24	30.40	43.50	-13.10	peak			
3	}		384.0500	19.75	18.96	38.71	46.00	-7.29	peak			
4		*	482.6667	21.18	20.94	42.12	46.00	-3.88	peak			
5	,		550.5667	13.35	22.49	35.84	46.00	-10.16	peak			
6	;		912.7000	3.35	28.96	32.31	46.00	-13.69	peak			

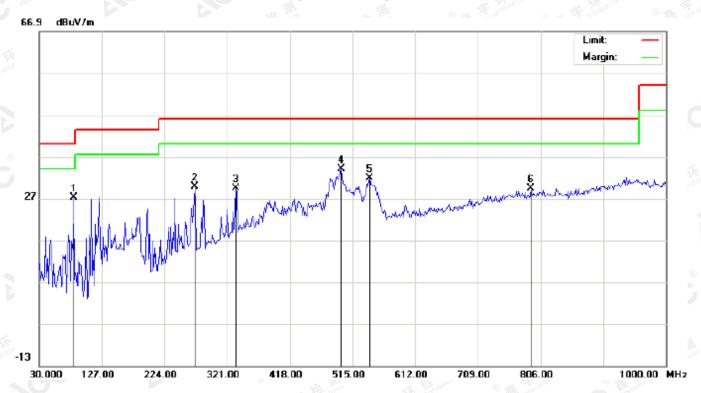
RESULT: PASS

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



No	. M	1k	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	'	- [MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1			83.3500	24.22	3.00	27.22	40.00	-12.78	peak			
2			270.8833	15.20	14.53	29.73	46.00	-16.27	peak			
3			333.9333	11.76	17.67	29.43	46.00	-16.57	peak			
4	9	*	497.2167	12.89	21.10	33.99	46.00	-12.01	peak			
5			540.8667	9.63	22.23	31.86	46.00	-14.14	peak			
6			791.4500	2.27	27.20	29.47	46.00	-16.53	peak			

RESULT: PASS

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

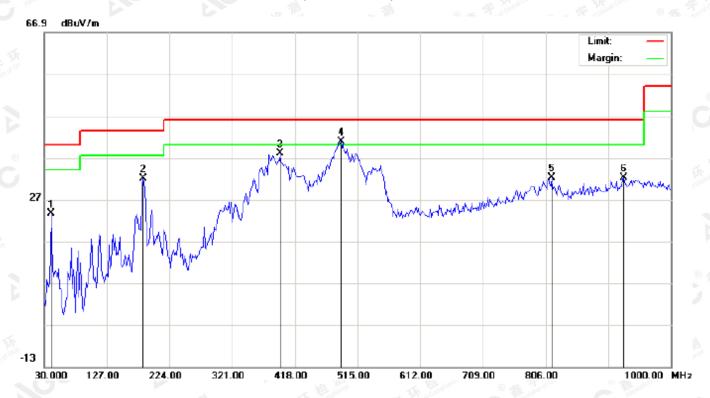
2. The "Factor" value can be calculated automatically by software of measurement system.

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



٠.												
	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		41.3167	11.75	11.81	23.56	40.00	-16.44	peak		·	
	2		183.5833	20.73	11.24	31.97	43.50	-11.53	peak			
	3		395.3667	18.96	19.04	38.00	46.00	-8.00	peak			
	4	*	489.1333	19.76	21.01	40.77	46.00	-5.23	peak			
	5		815.7000	4.91	27.32	32.23	46.00	-13.77	peak			
	6		927.2500	2.83	29.37	32.20	46.00	-13.80	peak		·	

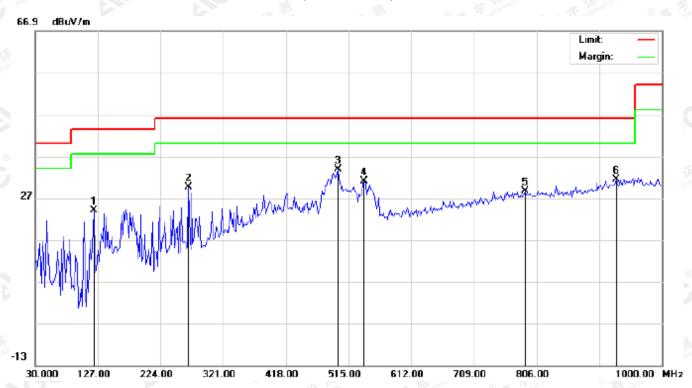
RESULT: PASS

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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
3	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		120.5333	16.87	7.08	23.95	43.50	-19.55	peak			
2		267.6500	15.10	14.43	29.53	46.00	-16.47	peak			
3	*	498.8333	12.64	21.12	33.76	46.00	-12.24	peak			
4		539.2500	8.83	22.19	31.02	46.00	-14.98	peak			
5		788.2167	1.50	27.16	28.66	46.00	-17.34	peak			
6		928.8667	1.98	29.41	31.39	46.00	-14.61	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.

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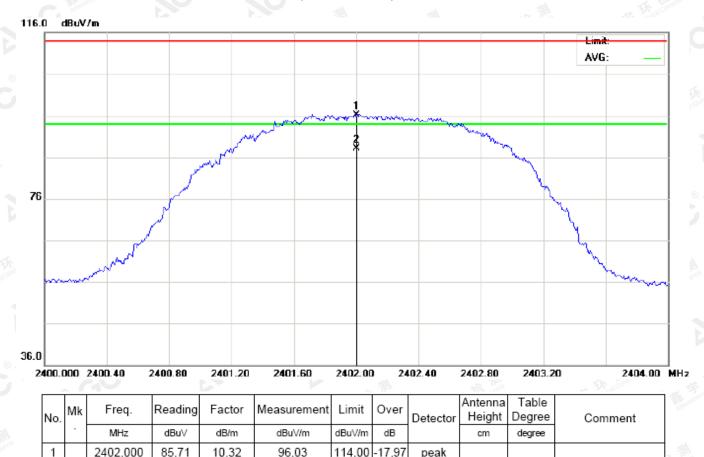
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



RESULT. PASS

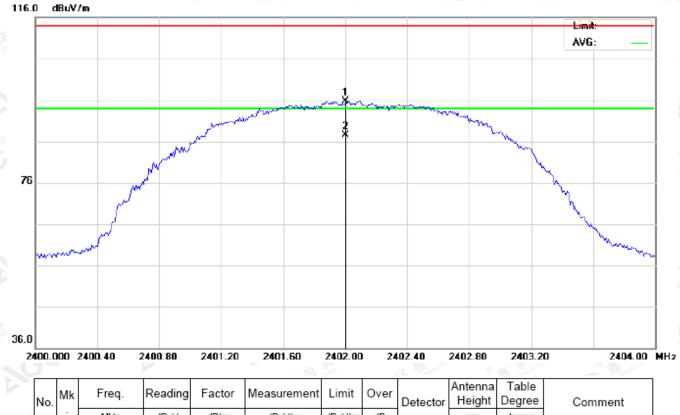
2402.000

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



MHz dBu∀ dB/m dBuV/m dBuV/m dΒ degree 1 2402.000 85.30 10.32 95.62 114.00 -18.38 peak 2402.000 87.55 94.00 77.23 10.32 AVG 100 294

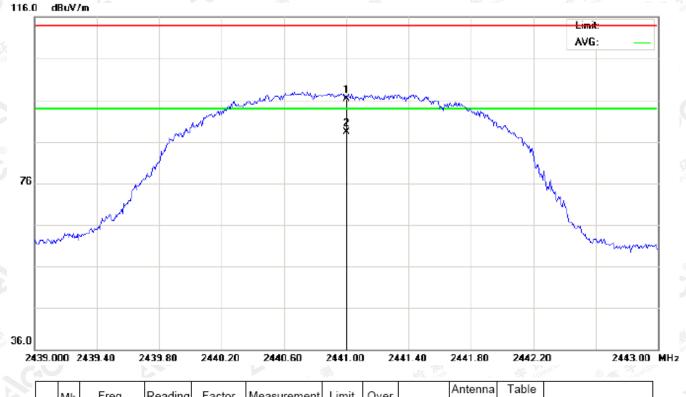
RESULT: PASS

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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		2441.000	85.95	10.36	96.31	114.00	-17.69	peak			
2	*	2441.000	77.97	10.36	88.33	94.00	-5.67	AVG	100	214	

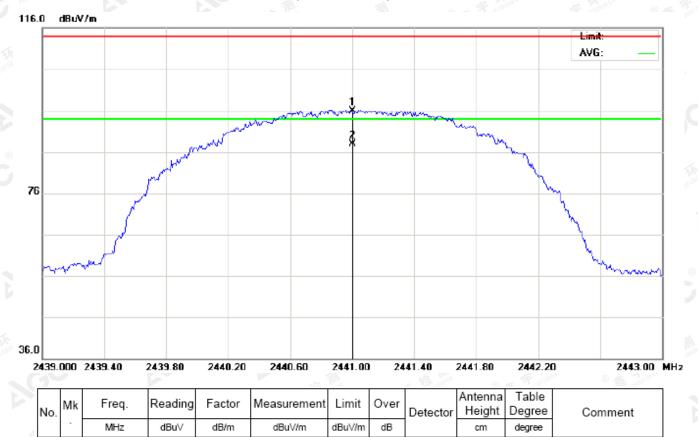
RESULT: PASS

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



114.00

94.00

-18.15

-6.19

peak

AVG

100

101

95.85

87.81

RESULT: PASS

2

2441.000

2441.000

85.49

77.45

10.36

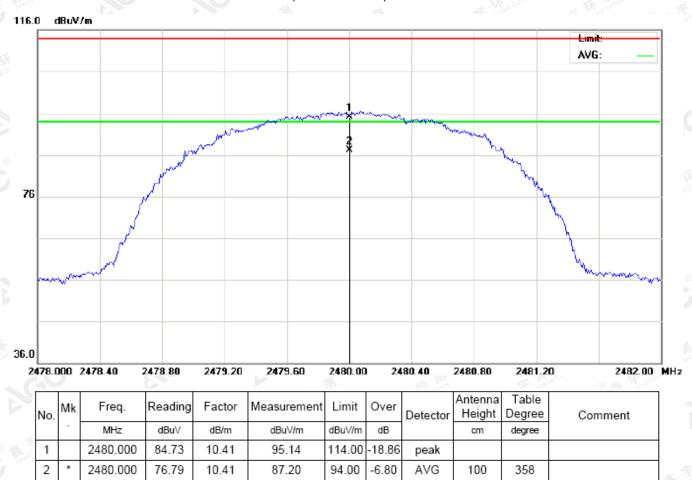
10.36

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



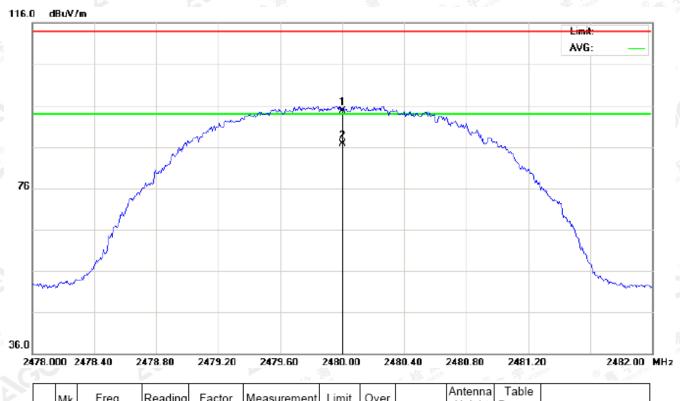
RESULT: PASS

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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
8	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	84.33	10.41	94.74	114.00	-19.26	peak			
2	*	2480.000	76.26	10.41	86.67	94.00	-7.33	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.

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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	85.71	10.32	96.03	114	-17.97	Horizontal
2402	85.30	10.32	95.62	114	-18.38	Vertical
2441	85.95	10.36	96.31	114	-17.69	Horizontal
2441	85.49	10.36	95.85	114	-18.15	Vertical
2480	84.73	10.41	95.14	114	-18.86	Horizontal
2480	84.33	10.41	94.74	114	-19.26	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.77	10.32	88.09	94	-5.91	Horizontal
2402	77.23	10.32	87.55	94	-6.45	Vertical
2441	77.97	10.36	88.33	94	-5.67	Horizontal
2441	77.45	10.36	87.81	94	-6.19	Vertical
2480	76.79	10.41	87.20	94	-6.80	Horizontal
2480	76.26	10.41	86.67	94	-7.33	Vertical

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	85.39	10.32	95.71	114	-18.29	Horizontal	
2402	84.99	10.32	95.31	114	-18.69	Vertical	
2441	85.49	10.36	95.85	114	-18.15	Horizontal	
2441	85.05	10.36	95.41	114	-18.59	Vertical	
2480	84.40	10.41	94.81	114	-19.19	Horizontal	
2480	83.96	10.41	94.37	114	-19.63	Vertical	

Average value

3							
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	77.33	10.32	87.65	94	-6.35	Horizontal	
2402	76.78	10.32	87.10	94	-6.90	Vertical	
2441	77.61	10.36	87.97	94	-6.03	Horizontal	
2441	77.00	10.36	87.36	94	-6.64	Vertical	
2480	76.46	10.41	86.87	94	-7.13	Horizontal	
2480	75.78	10.41	86.19	94	-7.81	Vertical	

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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization Horizontal	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	84.99	10.32	95.31	114	-18.69		
2402	84.58	10.32	94.90	114	-19.10	Vertical	
2441	85.01	10.36	95.37	114	-18.63	Horizontal	
2441	84.56	10.36	94.92	114	-19.08	Vertical	
2480	83.92	10.41	94.33	114	-19.67	Horizontal	
2480	83.52	10.41	93.93	114	-20.07	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	76.99	10.32	87.31	94	-6.69	Horizontal	
2402	76.45	10.32	86.77	94	-7.23	Vertical	
2441	77.25	10.36	87.61	94	-6.39	Horizontal	
2441	76.66	10.36	87.02	94	-6.98	Vertical	
2480	76.05	10.41	86.46	94	-7.54	Horizontal	
2480	75.34	10.41	85.75	94	-8.25	Vertical	

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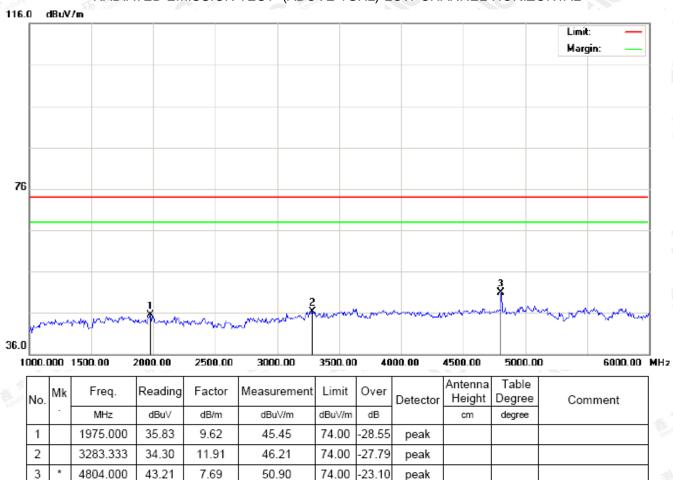


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(Worst modulation: GFSK)

For Harmonics

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



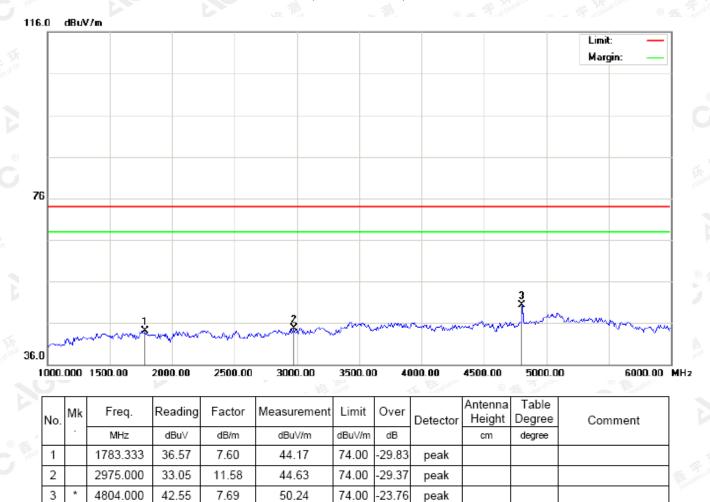
RESULT: PASS

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



RESULT: PASS

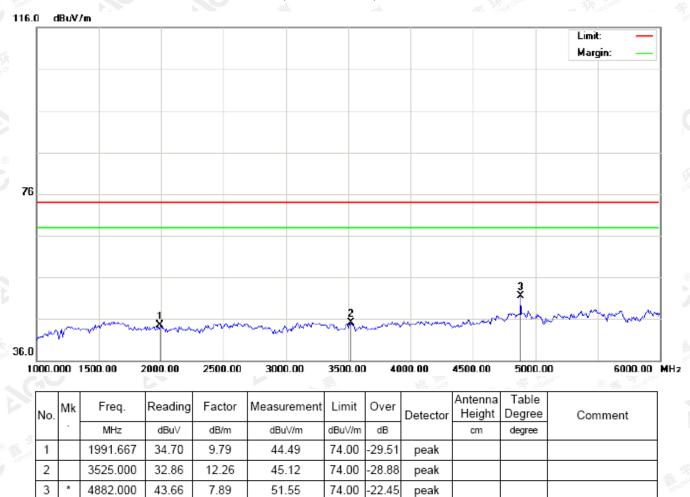
The results showing this jest eport refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 💢 €, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

peak



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



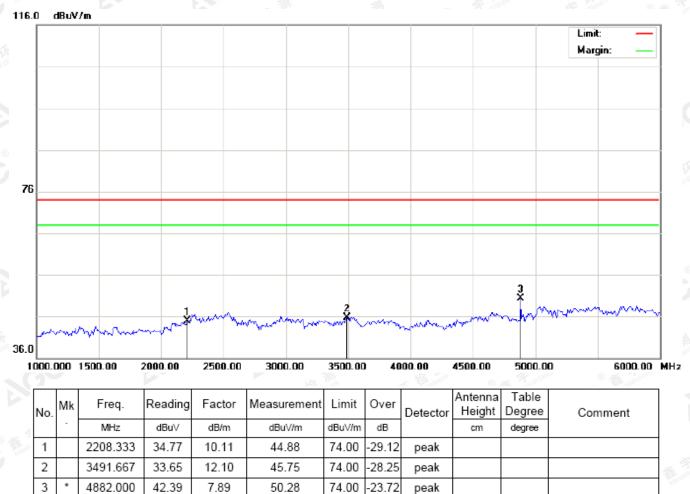
RESULT: PASS

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



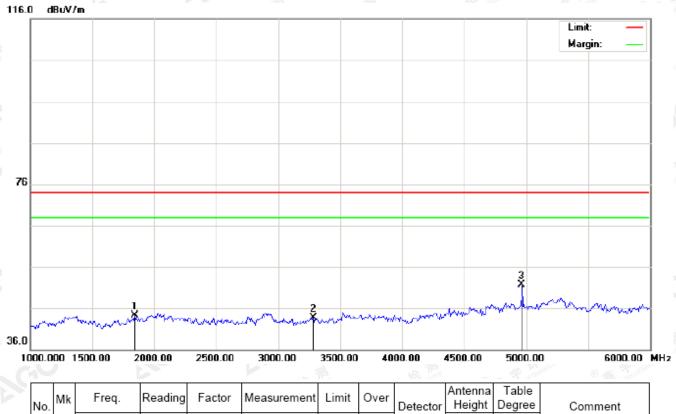
RESULT: PASS

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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		1841.667	36.07	8.21	44.28	74.00	-29.72	peak			
2		3283.333	31.70	11.91	43.61	74.00	-30.39	peak			
3	*	4960.000	43.60	8.09	51.69	74.00	-22.31	peak			

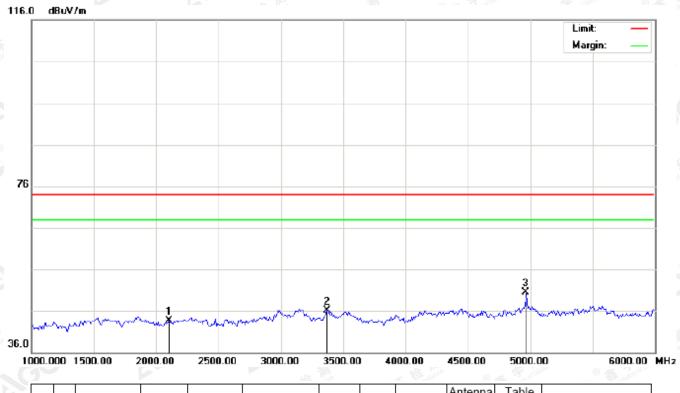
RESULT: PASS

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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
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2100.000	33.68	9.99	43.67	74.00	-30.33	peak			
2		3366.667	34.03	11.98	46.01	74.00	-27.99	peak			
3	*	4960.000	42.41	8.09	50.50	74.00	-23.50	peak			

RESULT: PASS

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

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

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

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10. BAND EDGE EMISSION

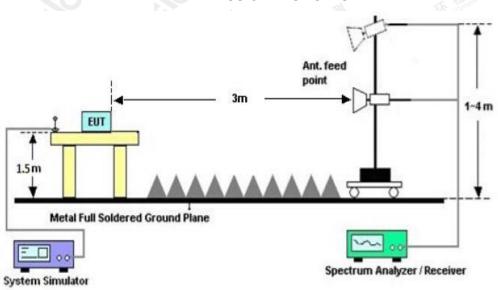
10.1. MEASUREMENT PROCEDURE

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

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

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



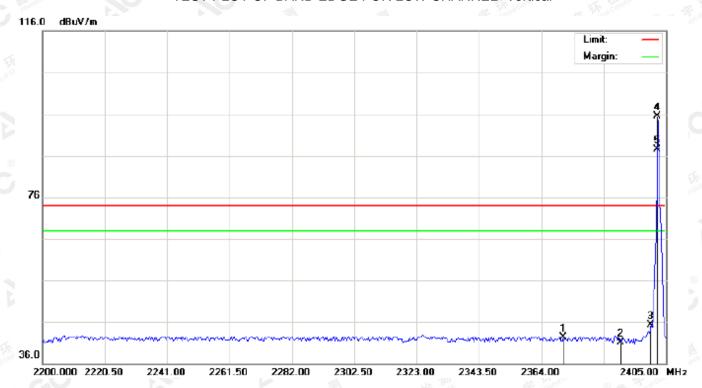
N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
<u> </u>	1		2373.225	32.17	10.29	42.46	74.00	-31.54	peak			
	2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
Œ	3		2400.000	37.93	10.32	48.25	74.00	-25.75	peak			
	4	*	2402.000	85.60	10.32	95.92	74.00	21.92	peak			
	5	Х	2402.000	77.65	10.32	87.97	74.00	13.97	AVG	100	247	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



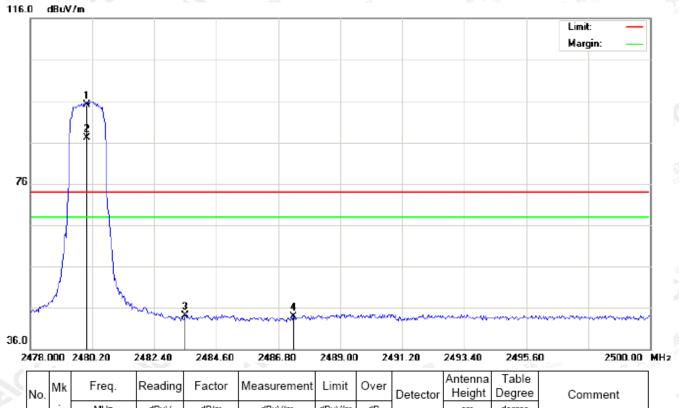
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
(8)	1		2371.175	32.08	10.29	42.37	74.00	-31.63	peak			
	2		2390.000	30.71	10.31	41.02	74.00	-32.98	peak			
	3		2400.000	35.06	10.32	45.38	74.00	-28.62	peak			
	4	*	2402.000	85.19	10.32	95.51	74.00	21.51	peak			
	5	Х	2402.000	77.11	10.32	87.43	74.00	13.43	AVG	100	157	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



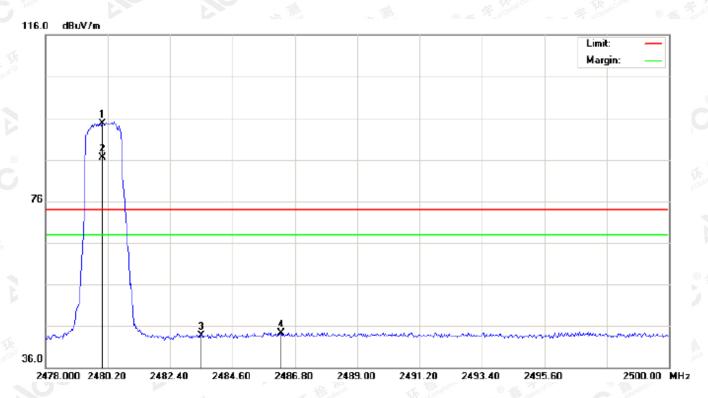
N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm degree		
ă	1	*	2480.000	84.62	10.41	95.03	74.00	21.03	peak			
al .	2	Х	2480.000	76.68	10.41	87.09	74.00	13.09	AVG	100	261	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2487.350	33.51	10.42	43.93	74.00	-30.07	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
1		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
31,	1	*	2480.000	84.22	10.41	94.63	74.00	20.63	peak			
	2	Х	2480.000	76.14	10.41	86.55	74.00	12.55	AVG	100	134	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2486.323	33.94	10.41	44.35	74.00	-29.65	peak			

RESULT: PASS

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

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

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

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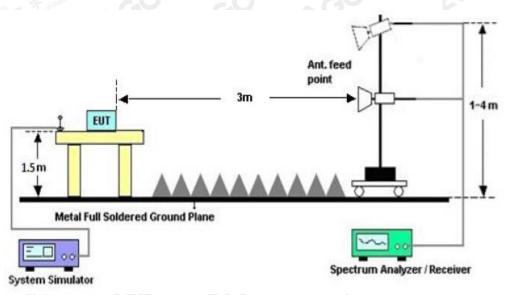
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

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

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

		VD2 " -6	alla.	0101							
BLUET	BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result										
Applicable Limits		Door!!									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The State of the Company	Low Channel	0.936	1.068	PASS							
N/A	Middle Channel	0.908	1.075	PASS							
	High Channel	0.950	1.964	PASS							

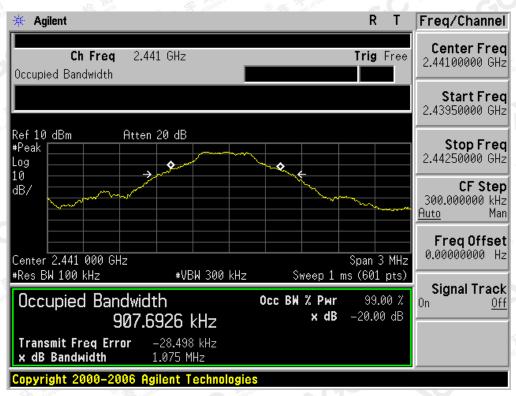
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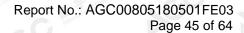
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

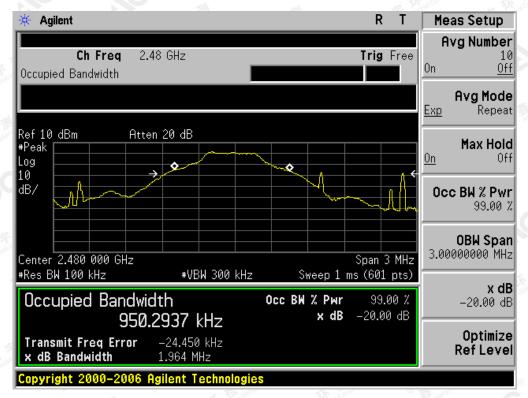


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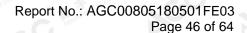




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.273 **PASS** 2.234 1.218 **PASS** N/A Middle Channel 1.970 1.201 **PASS High Channel** 1.354

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

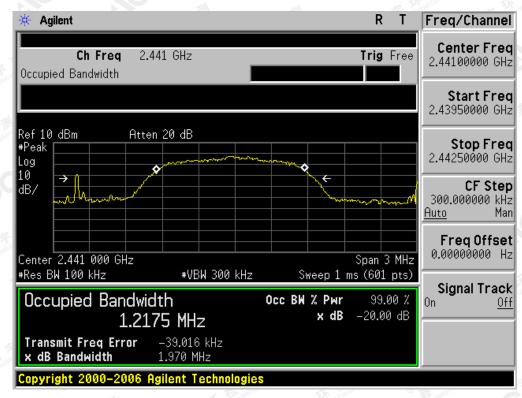


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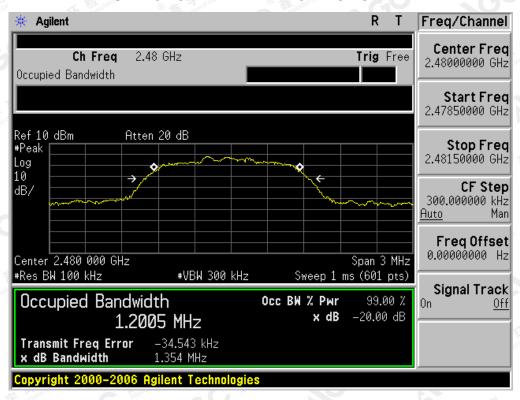




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



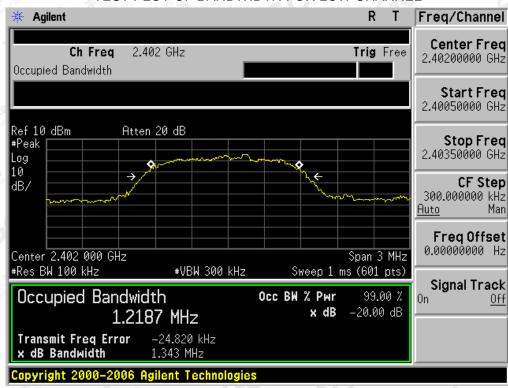
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT											
	Measurement Result										
Applicable Limits		Dooult									
		-20dB BW(MHz)	Result								
The fill the state of the state	Low Channel	1.219	1.343	PASS							
N/A	Middle Channel	1.215	1.351	PASS							
AGC **	High Channel	1.227	1.953	PASS							

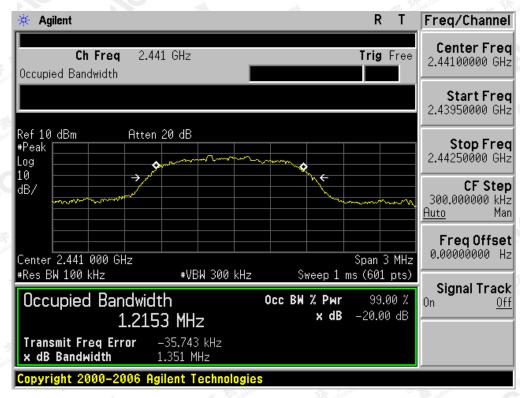
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



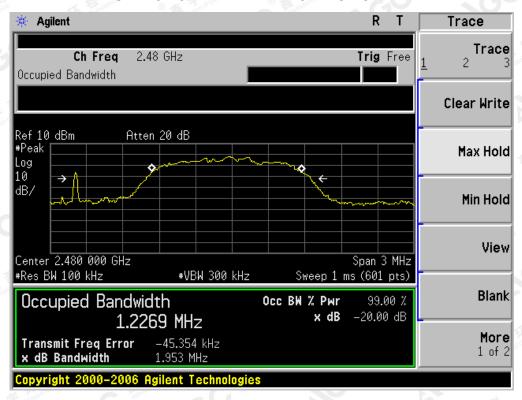
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

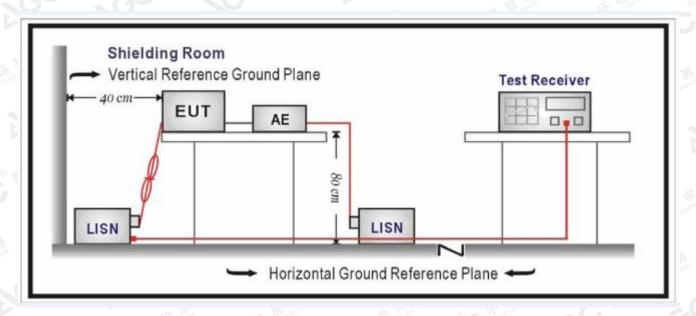
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	8 4 56 56 Sept of Control of Sept of Control of Sept of Control of Sept of Sept of Control of Sept of	A6							
5MHz~30MHz	60	50							

Note:

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

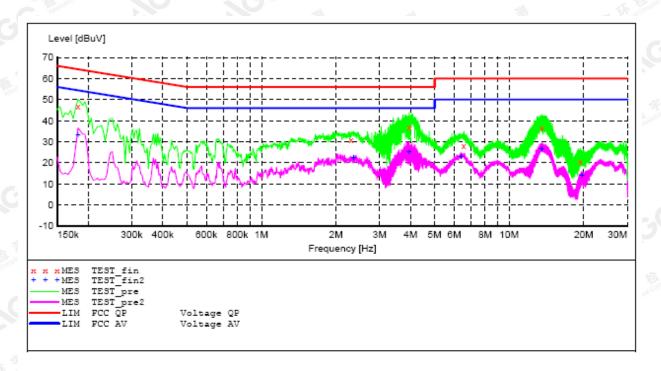
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2018/5/22 1	4:40						
Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000	47.00	10.0	64	17.4	QP	L1	FLO
2.302000	30.70	9.9	56	25.3	QP	L1	FLO
3.954000	37.10	10.1	56	18.9	QP	L1	FLO
6.558000	28.30	9.9	60	31.7	QP	L1	FLO
13.534000	36.40	9.8	60	23.6	QP	L1	FLO
19.346000	20.60	9.4	60	39.4	QP	L1	FLO

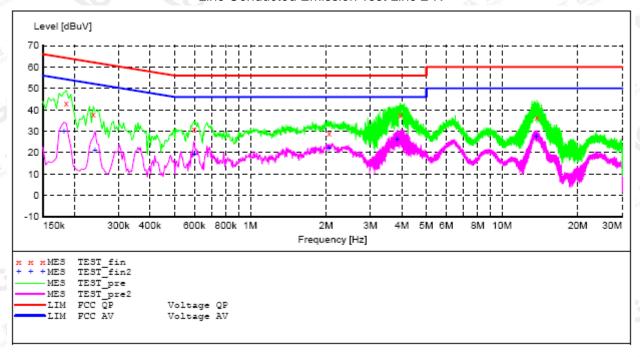
MEASUREMENT RESULT: "TEST fin2"

2018/5/22 14:4 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000	33.10	10.0	54	21.3	AV	L1	FLO
2.354000	22.40	9.9	46	23.6	AV	L1	FLO
3.954000	25.20	10.1	46	20.8	AV	L1	FLO
6.398000	22.90	9.9	50	27.1	AV	L1	FLO
13.534000	26.90	9.8	50	23.1	AV	L1	FLO
19.662000	13.90	9.4	50	36.1	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



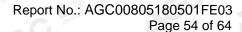
MEASUREMENT RESULT: "TEST fin"

20	18/5/22 15:1 Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.186000	42.90	10.0	64	21.3	QP	N	FLO
	0.238000	38.10	10.1	62	24.1	QP	N	FLO
	0.598000	30.90	9.9	56	25.1	QP	N	FLO
	2.058000	29.00	9.9	56	27.0	QP	N	FLO
	3.938000	37.20	10.1	56	18.8	QP	N	FLO
	13.754000	36.70	9.7	60	23.3	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

2	018/5/22 15:	16						
	Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.182000	30.20	10.0	54	24.2	AV	N	FLO
	0.242000	21.20	10.1	52	30.8	AV	N	FLO
	0.598000	19.20	9.9	46	26.8	AV	N	FLO
	2.058000	21.80	9.9	46	24.2	AV	N	FLO
	3.838000	26.00	10.1	46	20.0	AV	N	FLO
	13.674000	27.50	9.7	50	22.5	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



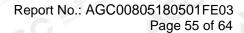
FCC RADIATED EMISSION TEST SETUP



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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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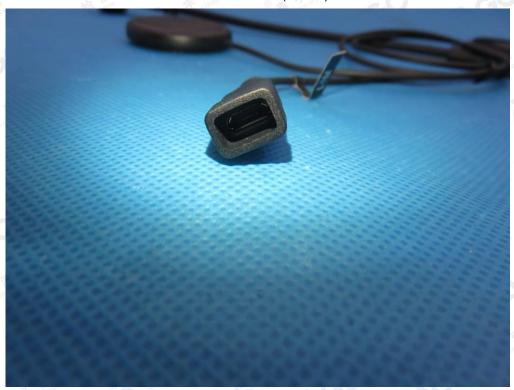
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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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OPEN VIEW OF EUT



VIEW OF BATTERY



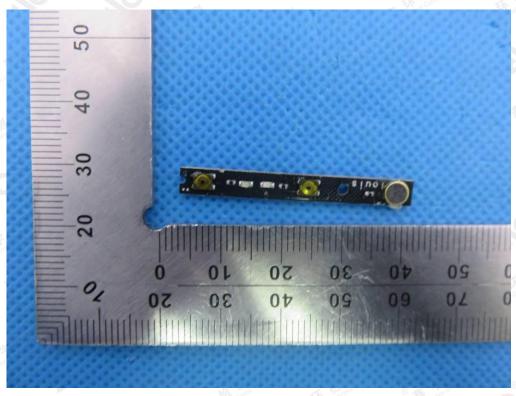
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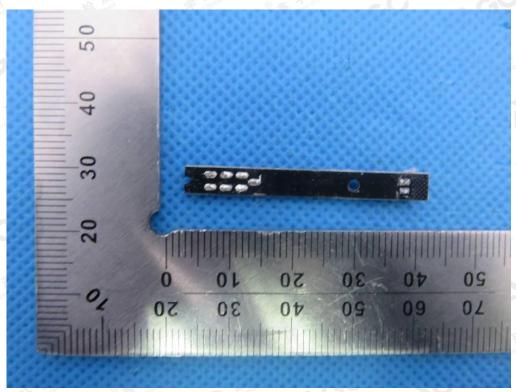
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



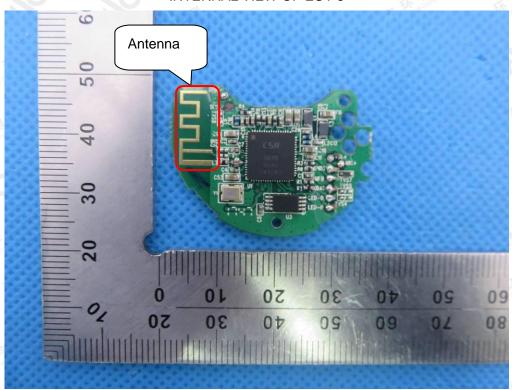
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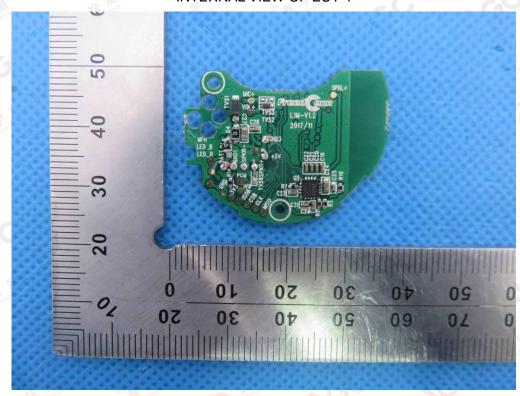
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



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INTERNAL VIEW OF EUT-5



VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

----END OF REPORT----

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