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FCC Test Report

Report No.: AGC01665180502FE03

FCC ID	: 2AAPK-MAJH007
APPLICATION PURPOSI	E : Original Equipment
PRODUCT DESIGNATIO	N : WIRELESS LOCATOR TAG
BRAND NAME	: N/A
MODEL NAME	: AZ50001, F01, F03, F04, F05
CLIENT	: Shenzhen Kingsun Enterprises Co., Ltd.
DATE OF ISSUE	: May 28, 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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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		May 28, 2018	Valid	Initial release

Report Revise Record

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Applicant	Shenzhen Kingsun Enterprises Co., Ltd.
Address	25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, China
Manufacturer	Shenzhen Jiehongwei Tednology Co.,Ltd
Address	3F, Building B, Shengjingyuan Industrial Park, Fuqian Road, Guanlan Town, Shenzhen City
Product Designation	WIRELESS LOCATOR TAG
Brand Name	N/A
Test Model	AZ50001
Series Model	F01, F03, F04, F05
Difference description	All the same except for the appearance shape
Date of test	May 10, 2018 to May 26, 2018
Deviation	None advantage of the contract
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

1. VERIFICATION OF CONFORMITY

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

Jonhen Wand

Jonhen Wang(Wang Yonghuan) May 26, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) May 28, 2018

Forvesto en

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

May 28, 2018

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technica	description	of EUT is	described as following	1
/ major toominou	accomption	01 201 10		1

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-2.59dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.0
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK
Number of channels	40
Hardware Version	V1
Software Version	V1
Antenna Designation	PCB Antenna
Antenna Gain	-3dBi
Power Supply	DC 3V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BLE Channel List

Frequency Band	Channel Number	Frequency
A CO	0	2402MHz
	the set of the transform	2404MHz
2400~2483.5MHz	A CO TO SOUTH	
	38	2478 MHz
	39	2480 MHz

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard

- uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. - Uncertainty of Conducted Emission, Uc = ± 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	
© 4	and Goode Contraction	auton of Golden Courses	Low channel GFSK	
GO	2	NG C	Middle channel GFSK	The toppeness
	3		High channel GFSK	CCC
西望	4 1 mm	C St Jon Contraction	BT Link	

Note:

- 1. Transmitting duty cycle >98%, The average correction factor is about -0.1
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5320 Image: Control of the set	C:\Users\Administrator\Desktop\艾国	组域 AZ50001(FCC)\资料\downboard	v2_emi_V1.5_SRX_m10dbm\downboardv2)pen Ini
		n set swire slave TC32 EVK: Swire	speed: tcdb wc b2 10 OK	

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			Kan		Jobal Con	
EUT	Hono	Control box	0.5.	PC	NO	

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	WIRELESS LOCATOR	Jiehongwei	AZ50001	EUT S
2	Battery	CR	2032	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	SERIAL	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	Mobile phone	Xiaomi	MAX 2S	A.E

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5.3. SUMMARY OF TEST RESULTS

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

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

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6. TEST FACILITY

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

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

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

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

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

Standard FCC 15.209

Frequency	Distance	Field 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)					
1.705 ~ 30	30	30	E England Con Call				
30 ~ 88	3	100	40.0				
88 ~ 216	3	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m				

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

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

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

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9.2. MEASUREMENT PROCEDURE

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

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

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

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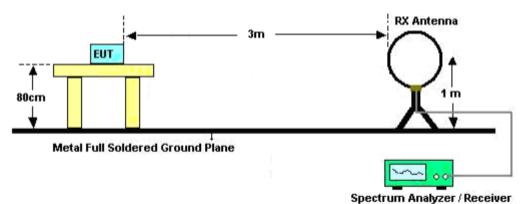


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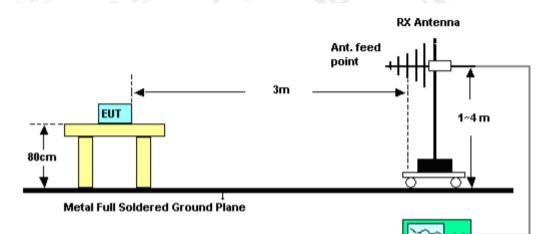
9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



1722

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



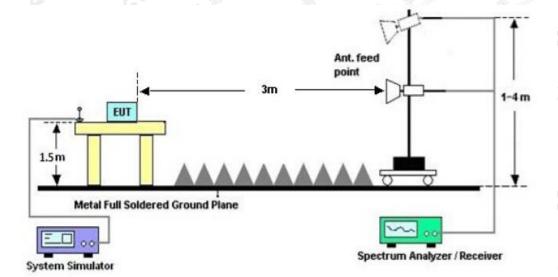
Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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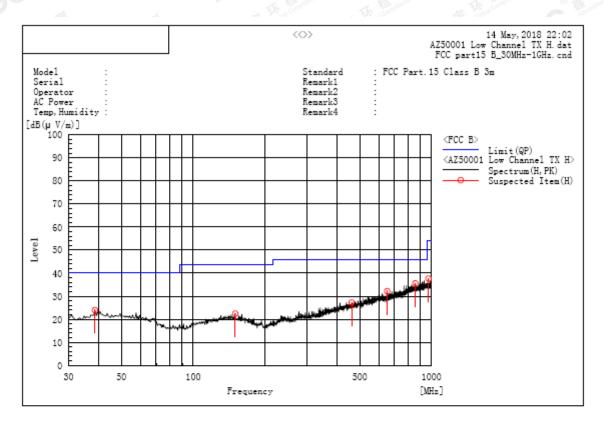
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9.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz. RADIATED EMISSION BELOW 1GHz

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



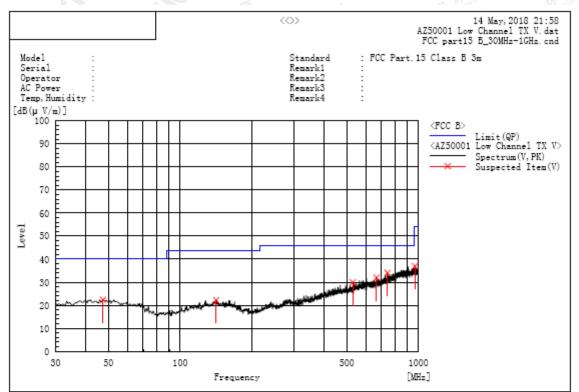
A. Suspected List:

Fi	requency MHz	Polarization Reading dB(uV)		Polarization Reading dB dB(uV/m) dB(Limit dB(uV/m) QP dB		Pass/Fail	Height cm	Angle deg
	38.730	н	6.7	17.3	24.0	40.0	16.0	Pass	100.0	70.5
	150.280	н	5.8	16.6	22.4	43.5	21.1	Pass	100.0	358.1
	462.620	н	5.0	22.3	27.3	46.0	18.7	Pass	100.0	70.5
	651.770	н	6.6	25.6	32.2	46.0	13.8	Pass	150.0	327.0
	855.955	н	5.9	29.7	35.6	46.0	10.4	Pass	100.0	70.5
	971.385	н	6.7	30.9	37.6	54.0	16.4	Pass	150.0	254.3

RESULT: PASS

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

A. Suspected List:

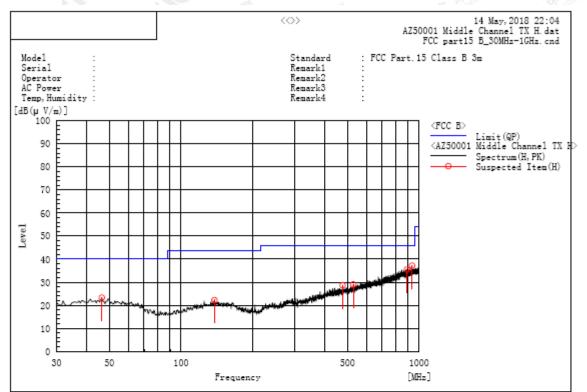
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
	47.460	v	5.2	17.2	22.4	40.0	17.6	Pass	150.0	180.4
	141.550	v	5.6	16.6	22.2	43.5	21.3	Pass	200.0	71.6
	530.035	v	6.6	23.4	30.0	46.0	16.0	Pass	200.0	71.6
6	666.805	v	6.3	25.8	32.1	46.0	13.9	Pass	100.0	343.6
311	741.495	v	6.8	27.3	34.1	46.0	11.9	Pass	150.0	144.3
	966.050	v	6.2	30.8	37.0	54.0	17.0	Pass	150.0	108.8

RESULT: PASS

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

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

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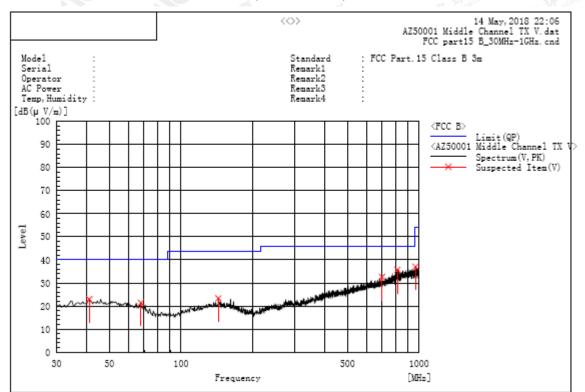
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz			Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
46.490	Н	6.1	17.2	23.3	40.0	16.7	Pass	100.0	339.2
138.155	н	5.6	16.6	22.2	43.5	21.3	Pass	100.0	267.3
477.655	Н	6.2	22.5	28.7	46.0	17.3	Pass	100.0	232.6
529.065	н	5.7	23.4	29.1	46.0	16.9	Pass	100.0	159.9
889.905	н	5.4	30.1	35.5	46.0	10.5	Pass	150.0	72.1
934.040	н	6.7	30.5	37.2	46.0	8.8	Pass	100.0	302.8

RESULT: PASS

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

A. Suspected List:

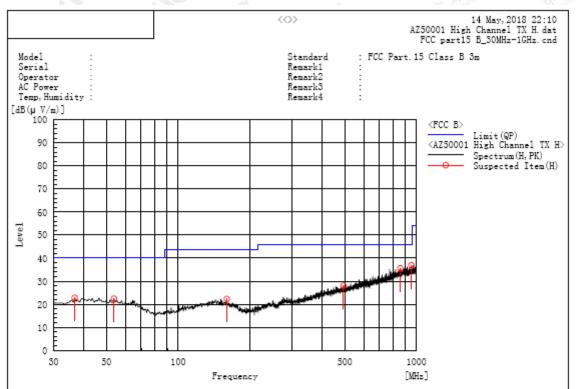
Frequency MHz			Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
41.155	v	5.6	17.4	23.0	40.0	17.0	Pass	100.0	287.8
67.830	v	6.4	15.0	21.4	40.0	18.6	Pass	100.0	37.0
143.490	v	6.7	16.6	23.3	43.5	20.2	Pass	150.0	216.2
697.845	v	6.4	26.3	32.7	46.0	13.3	Pass	150.0	34.2
810.365	v	6.8	28.9	35.7	46.0	10.3	Pass	150.0	216.2
965.080	v	6.2	30.8	37.0	54.0	17.0	Pass	100.0	37.0

RESULT: PASS

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

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

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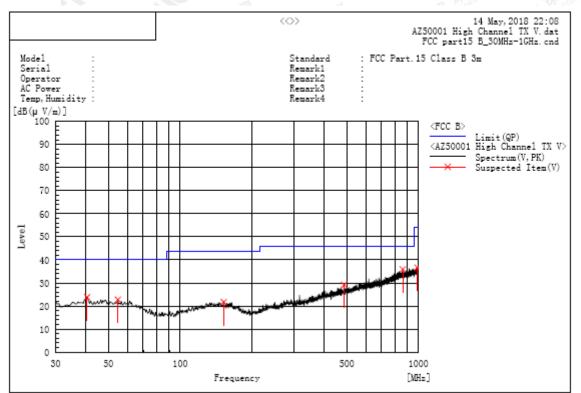
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

	Frequency MHz			Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg	
	36.790	Н	6.0	16.8	22.8	40.0	17.2	Pass	200.0	127.2	
	53.765	н	5.6	16.8	22.4	40.0	17.6	Pass	200.0	267.4	
	159.980	н	5.7	16.6	22.3	43.5	21.2	Pass	150.0	181.4	
	494.145	Н	5.2	22.8	28.0	46.0	18.0	Pass	200.0	308.1	ľ
e C	855.955	н	5.9	29.7	35.6	46.0	10.4	Pass	200.0	308.1	
	951.500	Н	6.2	30.7	36.9	46.0	9.1	Pass	200.0	344.7	5

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB			Angle deg
40.670	v	6.4	17.4	23.8	40.0	16.2	Pass	200.0	72.0
54.735	v	6.1	16.7	22.8	40.0	17.2	Pass	200.0	217.9
152.220	v	5.2	16.6	21.8	43.5	21.7	Pass	100.0	339.9
486.870	v	6.5	22.7	29.2	46.0	16.8	Pass	200.0	325.5
858.380	v	6.2	29.7	35.9	46.0	10.1	Pass	200.0	72.0
989.815	v	5.6	31.0	36.6	54.0	17.4	Pass	100.0	267.8

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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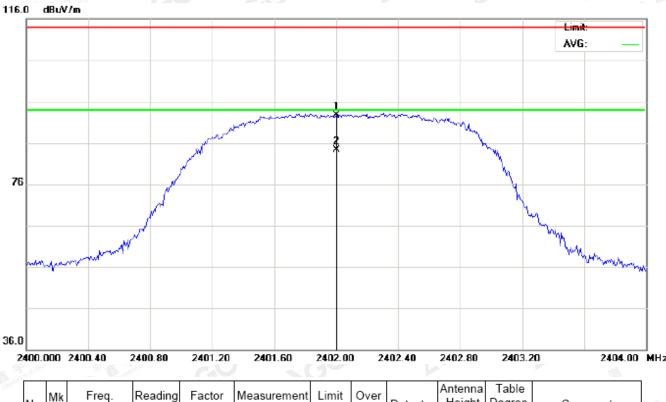


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RADIATED EMISSION ABOVE 1GHz

For Fundamental

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

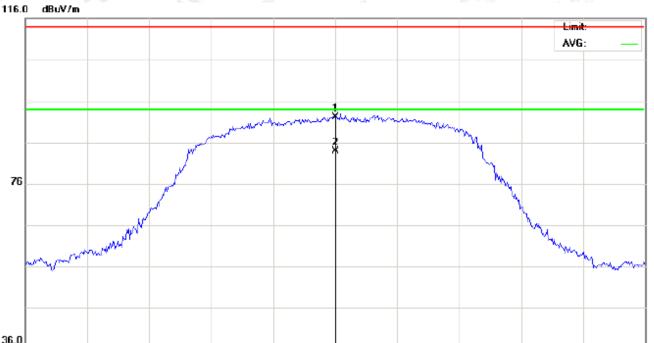


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	82.29	10.32	92.61	114.00	-21.39	peak			
2	*	2402.000	74.06	10.32	84.38	94.00	-9.62	AVG	100	133	

RESULT: PASS

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

3	6	D	L	

2	400.0	000	2400.40	2400.80	2401.20	2401.60	2402.0) 24	402.40	2402.80	2403.2	20 2404.00	MHz
Ç	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	100
		· ·	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree		
2	1		2402.000	81.79	10.32	92.11	114.00	-21.89	peak				
stati	2	*	2402.000	73.62	10.32	83.94	94.00	-10.06	AVG	100	308		

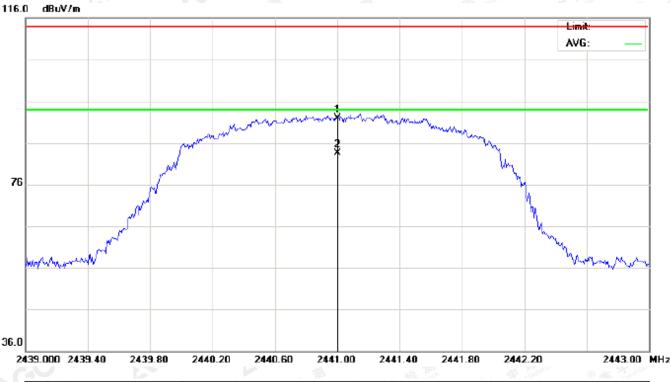
RESULT: PASS

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

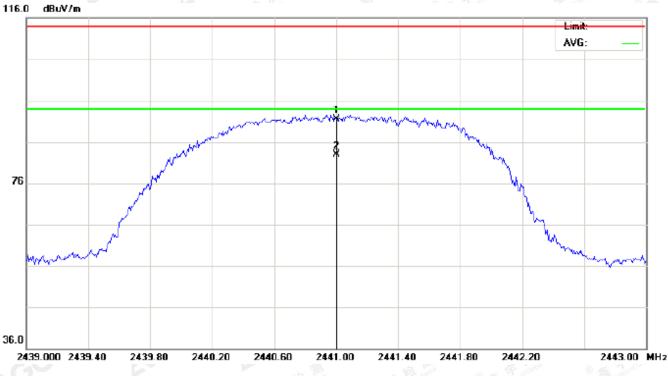
		Mk	Freq.	Reading	Factor	Measurement	Limit	Over		Antenna		
	No.	IVIN		. toulang		mododiomoni	2	0.0.	Detector	Height	Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
ste	1		2440.000	81.63	10.36	91.99	114.00	-22.01	peak			
	2	*	2440.000	73.09	10.36	83.45	94.00	-10.55	AVG	100	138	

RESULT: PASS

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

N	. N	Иk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		•	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
<u>í</u> 1			2440.000	81.13	10.36	91.49	114.00	-22.51	peak			
2		*	2440.000	72.78	10.36	83.14	94.00	-10.86	AVG	100	314	

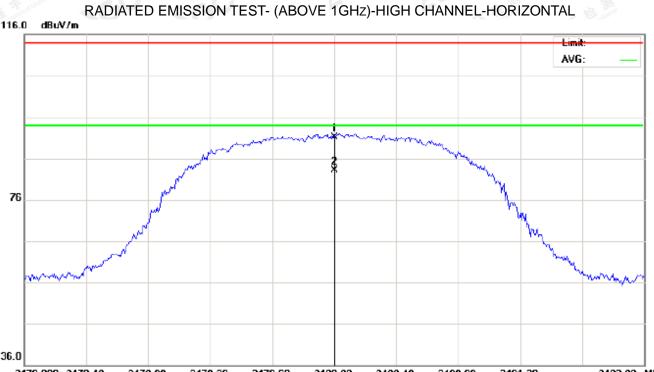
RESULT: PASS

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36.0

2	478.0	000	2478.40	2478.80	2479.20	2479.60	2480.0	0 2	480.40	2480.80	2481.2	20 2482.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment	
		•	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree		
	1		2480.000	80.75	10.41	91.16	114.00	-22.84	peak				
	2	*	2480.000	72.57	10.41	82.98	94.00	-11.02	AVG	100	129		

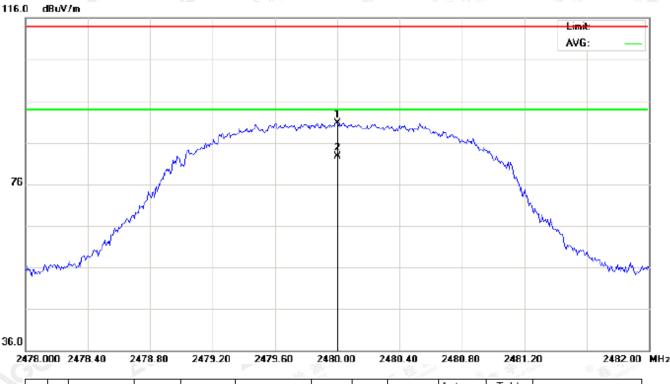
RESULT: PASS

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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	dBuV/m	dBu\//m	dB		cm	degree	
1		2480.000	80.25	10.41	90.66	114.00	-23.34	peak			
2	*	2480.000	72.31	10.41	82.72	94.00	-11.28	AVG	100	311	

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	82.29	10.32	92.61	114	-21.39	Horizontal
2402	81.79	10.32	92.11	114	-21.89	Vertical
2440	81.63	10.36	91.99	114 🐋	-22.01	Horizontal
2440	81.13	10.36	91.49	114	-22.51	Vertical
2480	80.75	10.41	91.16	114	-22.84	Horizontal
2480	80.25	10.41	90.66	114	-23.34	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.06	10.32	84.38	94 💿	-9.62	Horizontal
2402	73.62	10.32	83.94	94	-10.06	Vertical
2440	73.09	10.36	83.45	94	-10.55	Horizontal
2440	72.78	10.36	83.14	94	-10.86	Vertical
2480	72.57	10.41	82.98	94	-11.02	Horizontal
2480	72.31	10.41	82.72	94	-11.28	Vertical

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For Harmonics



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

N	. N	Λk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1			2408.333	37.82	10.33	48.15	74.00	-25.85	peak			
2			3616.667	36.55	12.83	49.38	74.00	-24.62	peak			
3	1	*	4804.000	44.71	7.69	52.40	74.00	-21.60	peak			

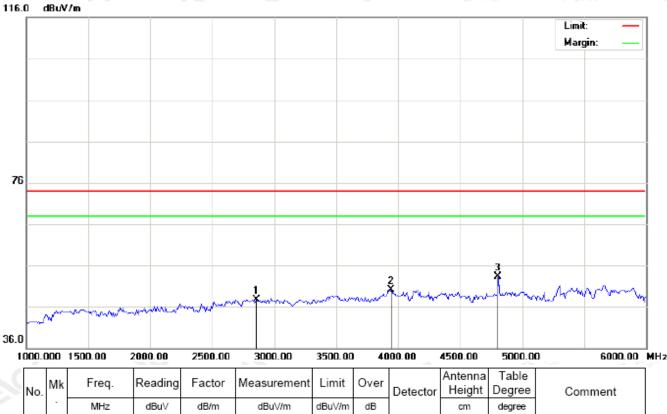
RESULT: PASS

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

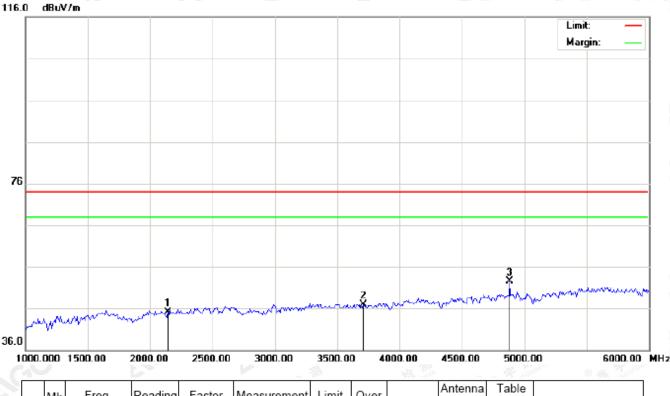
2858.333 36.43 11.30 47.73 74.00 -26.27 1 peak 3941.667 35.23 14.83 50.06 74.00 -23.94 2 peak 3 4804.000 45.55 7.69 53.24 74.00 20.76 peak

RESULT: PASS

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
~		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
121	1		2141.667	35.00	10.04	45.04	74.00	-28.96	peak			
	2		3708.333	33.53	13.39	46.92	74.00	-27.08	peak			
	3	*	4882.000	44.66	7.89	52.55	74.00	-21.45	peak			

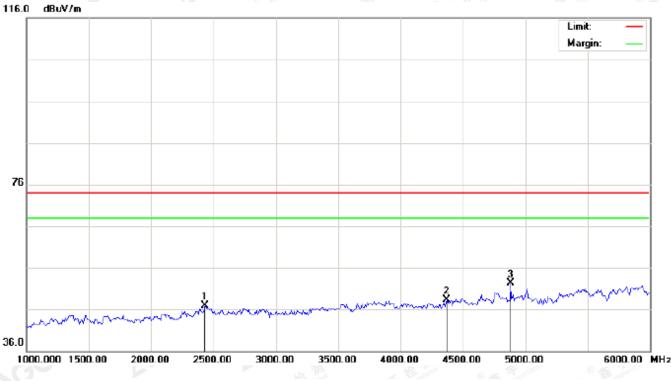
RESULT: PASS

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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	dBuV/m	dBuV/m	dB		cm	degree	
1		2433.333	36.55	10.36	46.91	74.00	-27.09	peak			
2		4366.667	39.24	9.10	48.34	74.00	-25.66	peak			
3	*	4882.000	44.39	7.89	52.28	74.00	-21.72	peak			

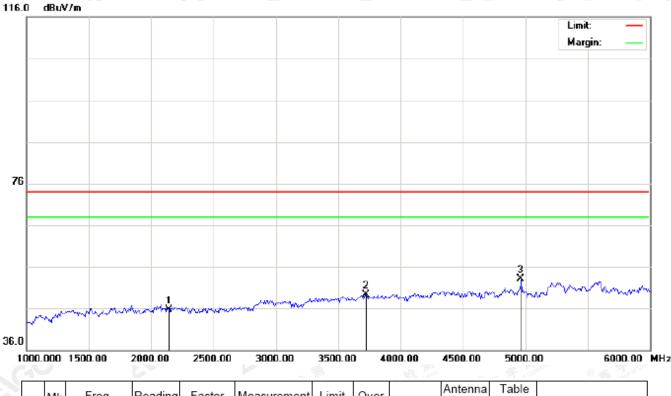
RESULT: PASS

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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	dBuV/m	dB		cm	degree	
1		2141.667	35.64	10.04	45.68	74.00	-28.32	peak			
2		3725.000	35.76	13.50	49.26	74.00	-24.74	peak			
3	*	4960.000	45.10	8.09	53.19	74.00	-20.81	peak			

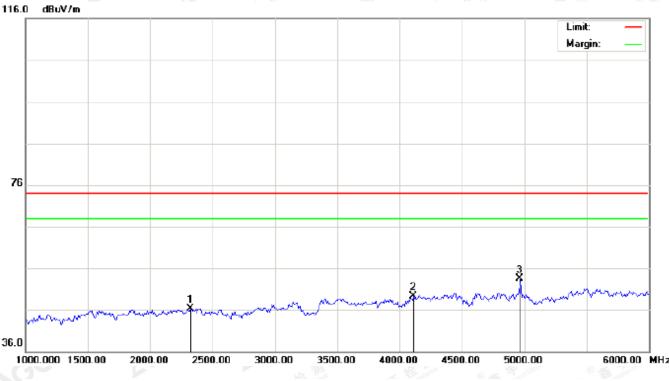
RESULT: PASS

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

AL AN	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	
ð	1		2325.000	36.14	10.24	46.38	74.00	-27.62	peak			
	2		4108.333	35.91	13.39	49.30	74.00	-24.70	peak			
	3	*	4960.000	45.41	8.09	53.50	74.00	-20.50	peak			

RESULT: PASS

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

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

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

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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

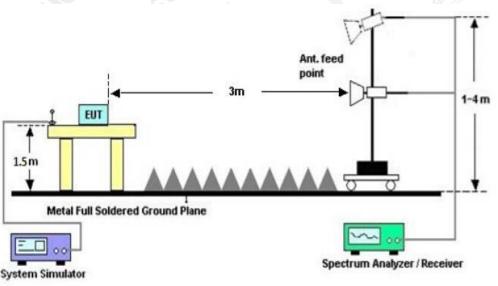
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

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

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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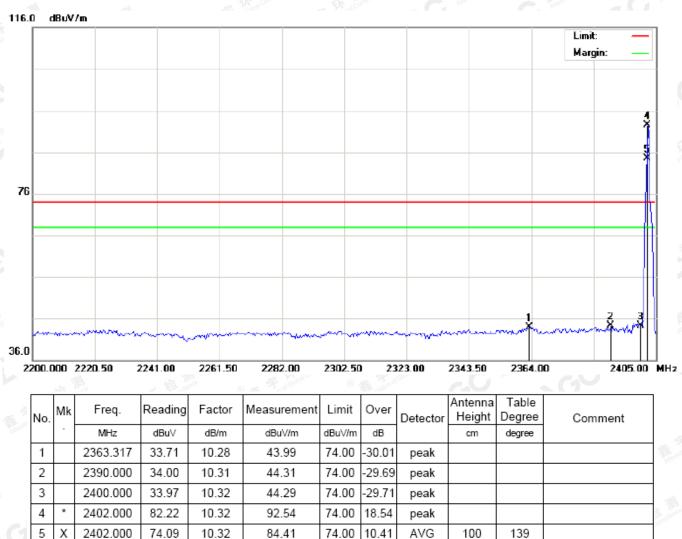




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10.3 RADIATED TEST RESULT

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

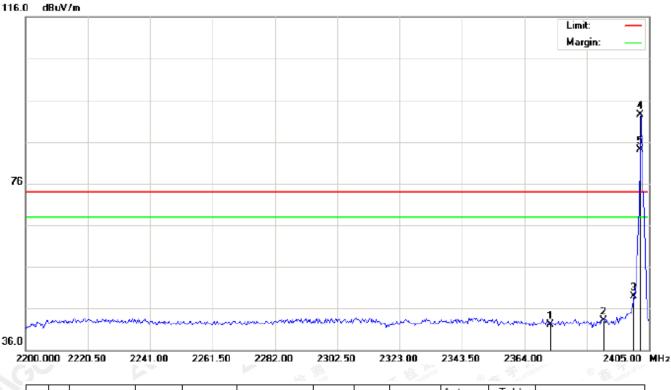


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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

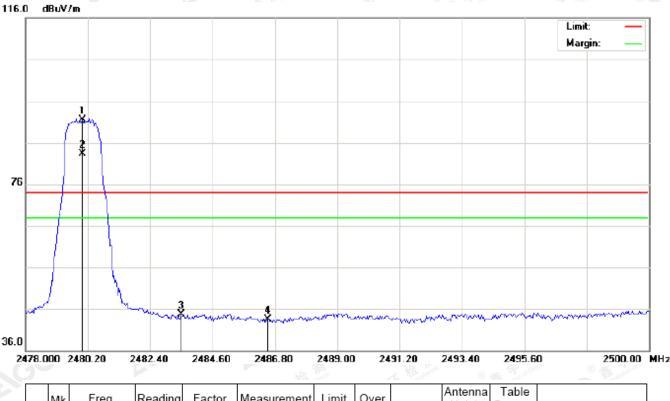
AXX	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
ali	1		2372.542	31.78	10.29	42.07	74.00	-31.93	peak			
	2		2390.000	32.71	10.31	43.02	74.00	-30.98	peak			
	3		2400.000	38.56	10.32	48.88	74.00	-25.12	peak			
	4	*	2402.000	82.09	10.32	92.41	74.00	18.41	peak			
	5	Х	2402.000	73.76	10.32	84.08	74.00	10.08	AVG	100	301	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

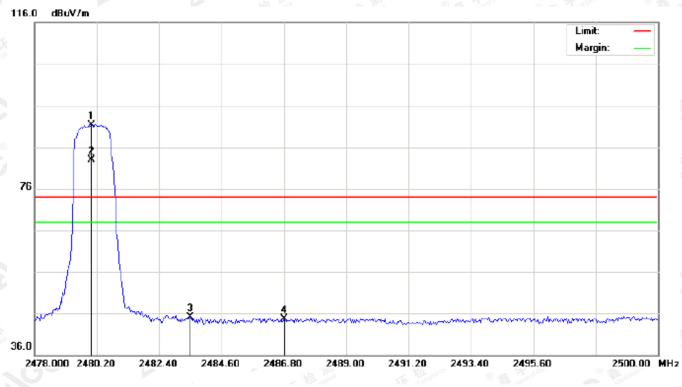
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
13		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
stal	1	*	2480.000	81.05	10.41	91.46	74.00	17.46	peak			
	2	Х	2480.000	72.86	10.41	83.27	74.00	9.27	AVG	100		
	3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
	4		2486.543	33.15	10.42	43.57	74.00	-30.43	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	e Comment
100	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	80.82	10.41	91.23	74.00	17.23	peak			
2	Х	2480.000	72.56	10.41	82.97	74.00	8.97	AVG	100	315	
3		2483.500	34.76	10.41	45.17	74.00	-28.83	peak			
4		2486.800	34.22	10.42	44.64	74.00	-29.36	peak			

RESULT: PASS

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

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

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

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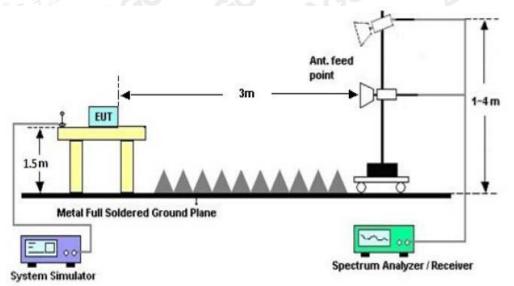
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

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

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		Decult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
the man	Low Channel	1.115	1.318	PASS				
N/A	Middle Channel	1.131	1.325	PASS				
	High Channel	1.160	1.356	PASS				

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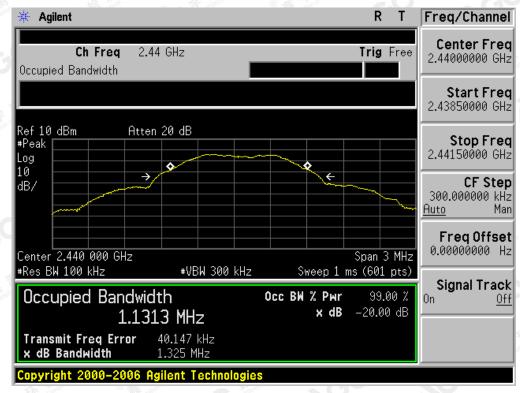


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

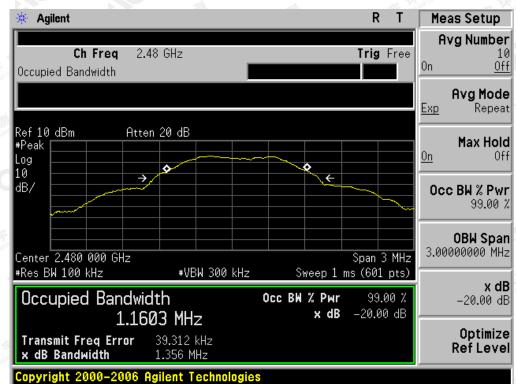
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

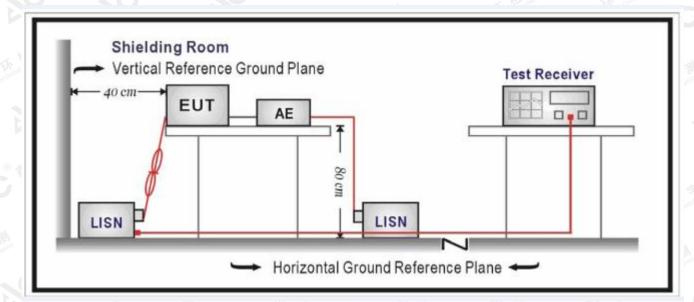
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56 °	46					
5MHz~30MHz	60	50					

Note:

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

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The EUT EUT is power supplied by button cell.

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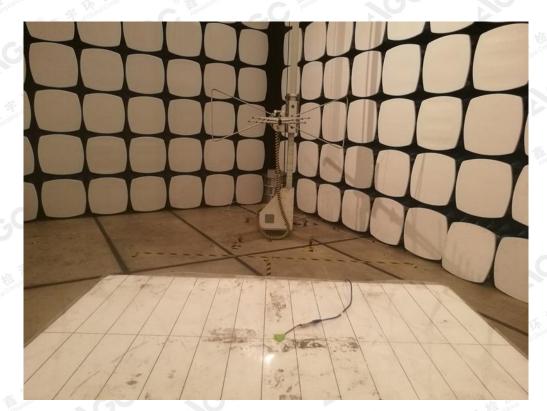




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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP



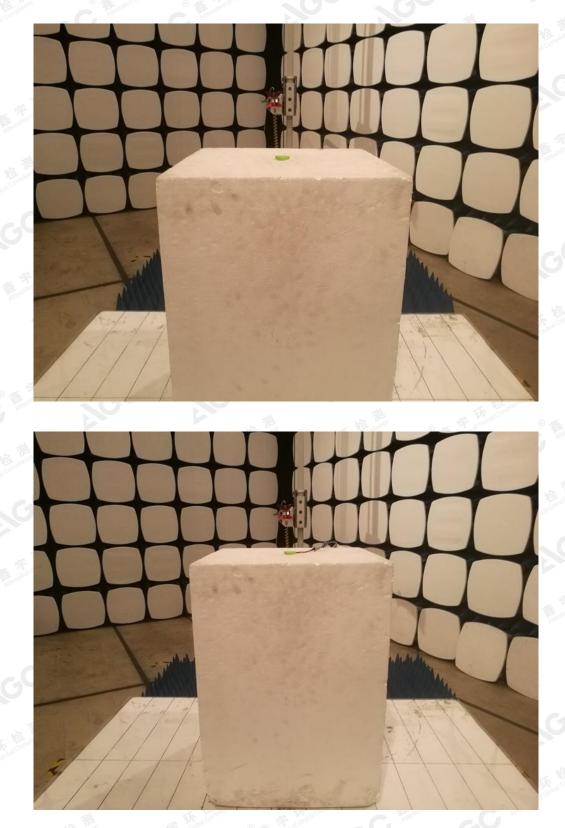


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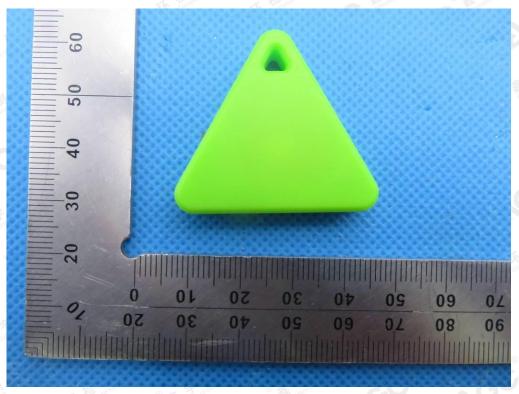
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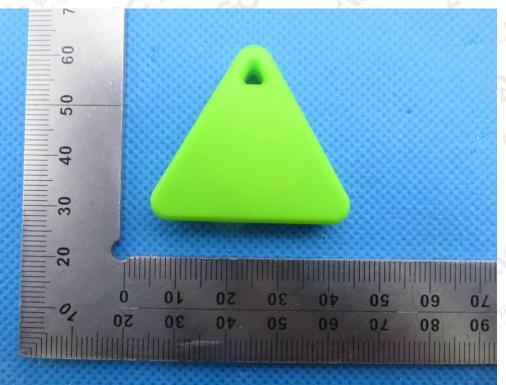


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BOTTOM VIEW OF EUT

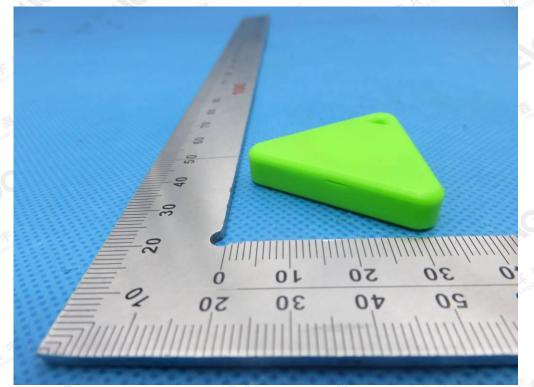


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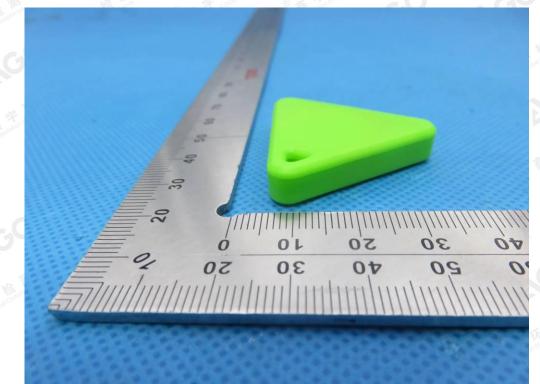


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FRONT VIEW OF EUT



BACK VIEW OF EUT



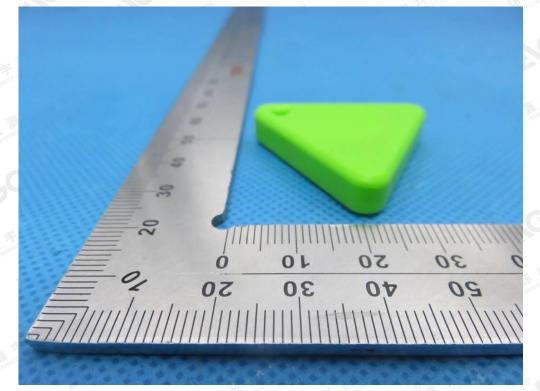
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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



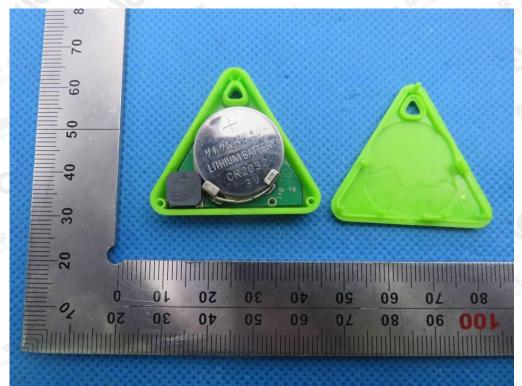
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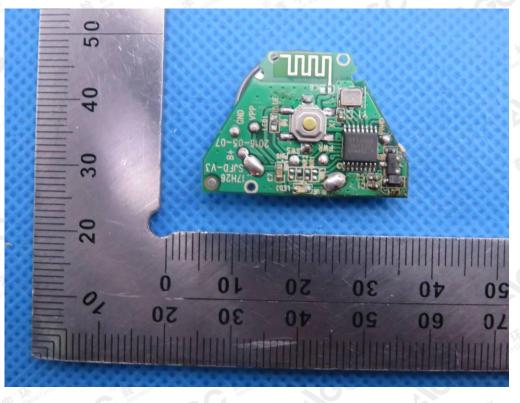


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OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



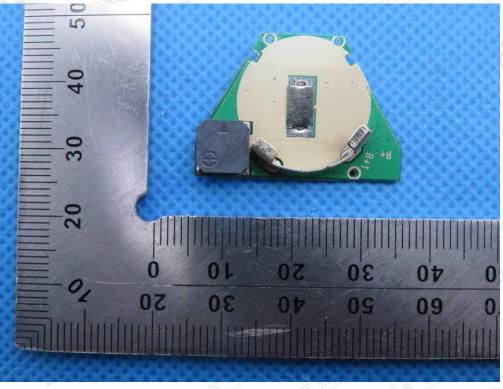
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----

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