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FCC Test Report

Report No.: AGC00688180701FE03

FCC ID	: 2AMSUMABTBL120
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Bluetooth Mouse
BRAND NAME	: SANWA
MODEL NAME	: GMABTBL120
CLIENT	: SANWA LIMITED
DATE OF ISSUE	: July 16, 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		July 16, 2018	Valid	Initial release

Report Revise Record

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Applicant	SANWA LIMITED
Address	Room 1005, 10/F., Tower 2, Silvercord, 30 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer	Wuhu Delux Mobile Internet Device Company Limited
Address	Delux Industrial Park, Xici 3 Road, Xinwu Development Zone, Wanzhi Town, Wuhu County, Anhui Province, China
Product Designation	Bluetooth Mouse
Brand Name	SANWA
Test Model	GMABTBL120
Date of test	July 09, 2018 to July 15, 2018
Deviation	None
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

Zhang Henry

Henry Zhang(Zhang Zhuorui) July 15, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) July 16, 2018

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Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

July 16, 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
Bluetooth Version	V3.0
Modulation	BR ⊠GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	DC 1.5V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
The Barrier The Theorem	O Same O Same	2402MHz
Management Colonia	C NO	2403MHz
G		The contract of the second contract of the se
The Barrows	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
GC SC	40	2442 MHz
	The filler and the state of the	
The the and the second control of the second	77.0	2479 MHz
of Const. CC from C	78	2480 MHz

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3. MEASUREMENT UNCERTAINTY

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

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

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1 35 8 10 15 10 10 10	Low channel GFSK
2 2	Middle channel GFSK
3 6 3	High channel GFSK
4	BT Link(Hopping mode)

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.

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		Software Setting	C The value of Globa	C A Non of Clobal	C
BK3256 RF Test	- ¥1.3				
件(2) 帮助(3)					_
RF测试				-	1
	通讯端口 COM3	Close			lobal
_ RF测试 仪器测试					
DUT测试模式	频点 2		退出测试		
		□ Hopping 包类型 DH1 _			
init finished Bluetooth controlle IA	r enabled: fc:58;fa:	45:42:14	<u>^</u>		
app_wave_file_play_ [enable_complete 0]	stop() D0]				
app_wave_file_play_ [CMD] singlewave te	stop ()				
app_bt_enable_dut_m OK					98
RF Reg: 0x00910000: RF Reg: 0x00910008:	4182e24a				
Bluetooth controlle [disable_complete O	r disabled: fc:58:fa [00]	:: 45 : 42 : 14			
Enter Dut test mode	success!	2, power level: 1, p_mode: 1, hoppin	ng: 0.	_	
EUT TEST MODE START		-, p	••••		
			~		

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			(Con		Jobal Con
EUT	Hatton c	Control box	0/21	PC	N

5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
10	Bluetooth Mouse	SANWA	GMABTBL120	EUT
2	Battery	Nanfu	LR03-12	A.E
3	PC	APPLE	A1465	A.E
4 • ^{Color}	Control box	BEKEN	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	Mobile phone	APPLE	8 Plus	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

				1011	
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
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	МХТ	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B	station of Course C	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019

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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 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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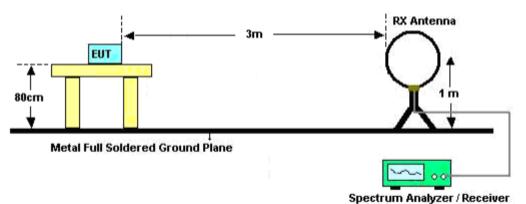


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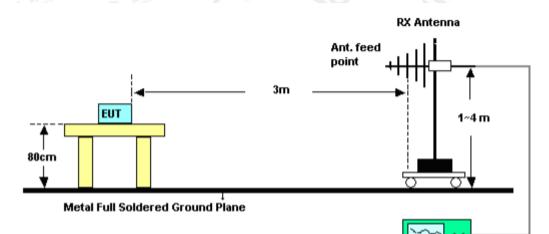
9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



359

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



Comparison Company of Stranger of Company

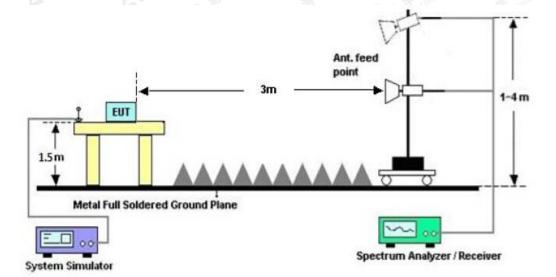
Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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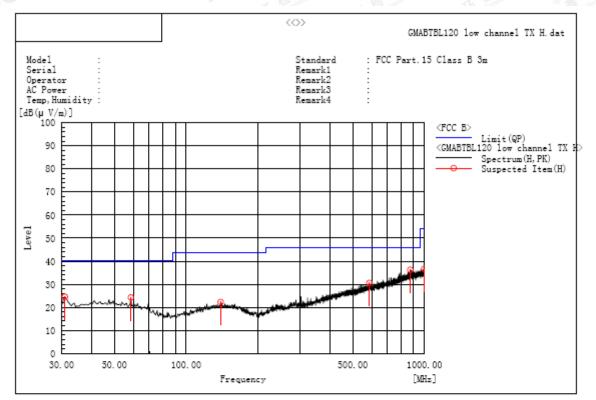
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9.4. TEST RESULT

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

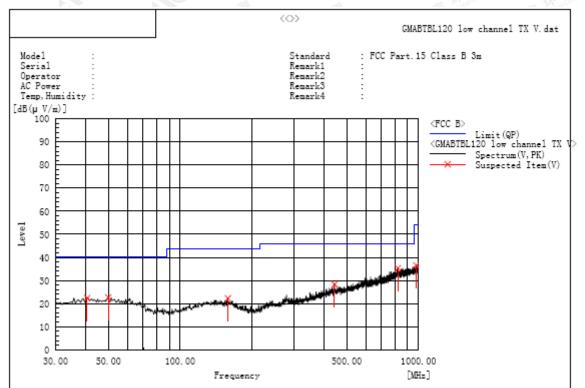


A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
30.970	н	9.0	15.6	24.6	40.0	15.4	Pass	100.0	14.8
58.615	н	7.9	16.4	24.3	40.0	15.7	Pass	100.0	268.5
139.610	н	5.7	16.6	22.3	43.5	21.2	Pass	200.0	142.5
587.265	н	5.9	24.7	30.6	46.0	15.4	Pass	150.0	178.1
872.445	Н	6.4	29.9	36.3	46.0	9.7	Pass	150.0	71.0
997.575	н	5.5	31.1	36.6	54.0	17.4	Pass	200.0	106.1

RESULT: PASS

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

A. Suspected List:

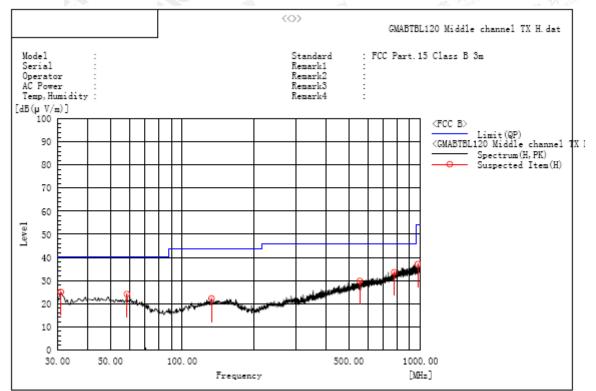
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
40.670	v	5.0	17.4	22.4	40.0	17.6	Pass	200.0	91.5
49.885	v	5.6	17.1	22.7	40.0	17.3	Pass	200.0	91.5
158.525	v	5.7	16.6	22.3	43.5	21.2	Pass	150.0	142.9
444.190	v	6.4	22.0	28.4	46.0	17.6	Pass	150.0	179.3
820.550	v	6.2	29.1	35.3	46.0	10.7	Pass	200.0	91.5
978.660	v	5.7	30.9	36.6	54.0	17.4	Pass	150.0	34.7

RESULT: PASS

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

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

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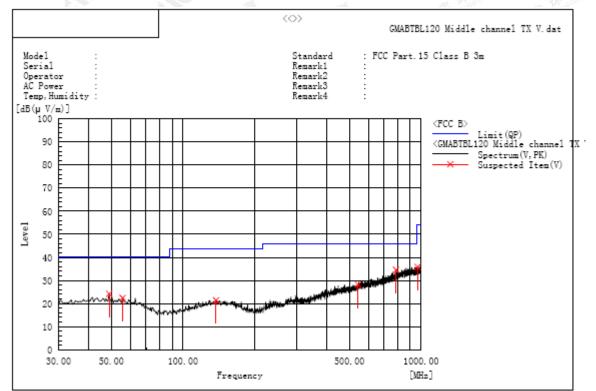
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
30.970	н	9.4	15.6	25.0	40.0	15.0	Pass	150.0	216.3
58.615	н	7.7	16.4	24.1	40.0	15.9	Pass	100.0	72.2
132.820	н	5.8	16.4	22.2	43.5	21.3	Pass	200.0	269.5
556.710	н	5.8	24.0	29.8	46.0	16.2	Pass	100.0	72.2
775.445	н	5.3	28.2	33.5	46.0	12.5	Pass	150.0	216.3
975.265	н	6.2	30.9	37.1	54.0	16.9	Pass	150.0	252.1

RESULT: PASS

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

A. Suspected List:

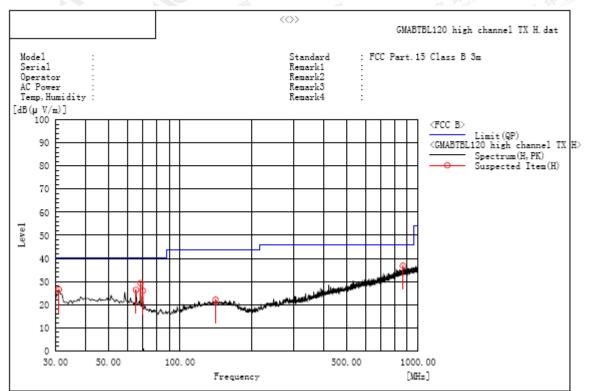
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	48.915	v	7.1	17.1	24.2	40.0	15.8	Pass	100.0	56.2
	55.705	v	5.9	16.6	22.5	40.0	17.5	Pass	100.0	56.2
	137.670	v	4.8	16.6	21.4	43.5	22.1	Pass	200.0	107.5
0	544.100	v	4.5	23.7	28.2	46.0	17.8	Pass	100.0	92.6
3	784.660	v	6.2	28.4	34.6	46.0	11.4	Pass	150.0	252.8
	966.050	v	5.0	30.8	35.8	54.0	18.2	Pass	150.0	252.8

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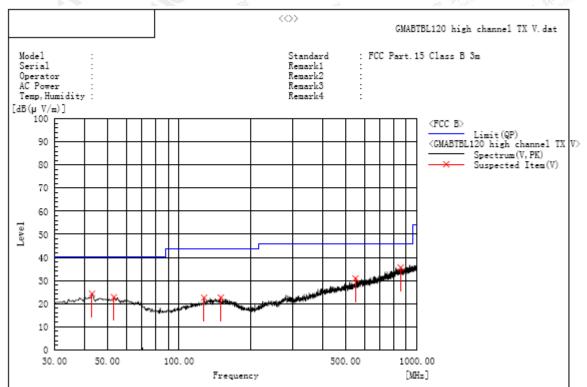
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u∨/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
30.970	Н	10.9	15.6	26.5	40.0	13.5	Pass	100.0	185.8
65.405	Н	10.9	15.5	26.4	40.0	13.6	Pass	200.0	224.7
68.315	н	14.4	14.9	29.3	40.0	10.7	Pass	100.0	224.7
69.770	Н	11.5	14.5	26.0	40.0	14.0	Pass	200.0	224.7
141.065	Н	5.5	16.6	22.1	43.5	21.4	Pass	150.0	184.8
863.715	Н	7.0	29.8	36.8	46.0	9.2	Pass	200.0	291.1

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
43.095	v	6.9	17.4	24.3	40.0	15.7	Pass	100.0	56.9
53.280	v	6.0	16.8	22.8	40.0	17.2	Pass	150.0	219.1
127.485	v	6.5	16.0	22.5	43.5	21.0	Pass	100.0	58.0
149.795	v	6.0	16.6	22.6	43.5	20.9	Pass	100.0	276.3
550.890	v	7.0	23.9	30.9	46.0	15.1	Pass	200.0	208.4
853.530	v	6.0	29.6	35.6	46.0	10.4	Pass	100.0	226.1

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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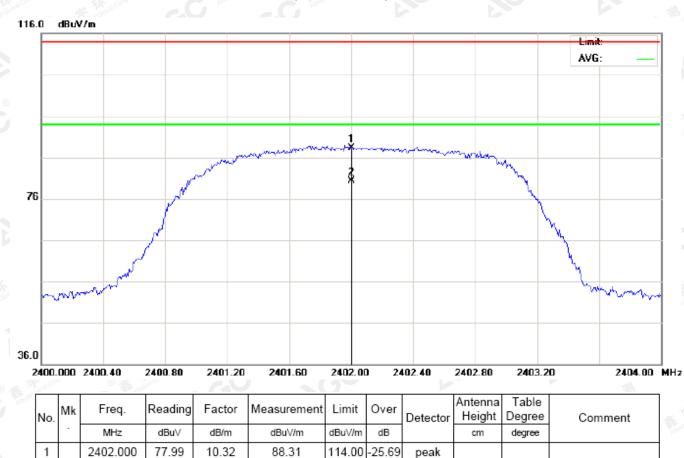


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RADIATED EMISSION ABOVE 1GHz

For Fundamental

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



94.00

13.66

AVG

100

130

RESULT: PASS

2402.000

10.32

80.34

70.02

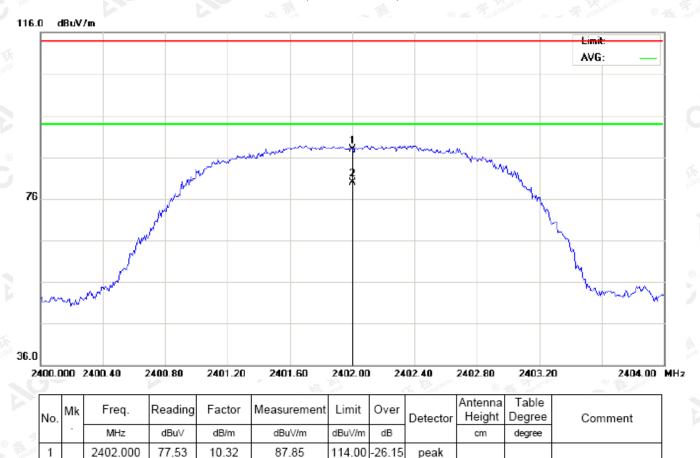
2

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94.00

-14.09

AVG

100

211

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

RESULT: PASS

2402.000

2

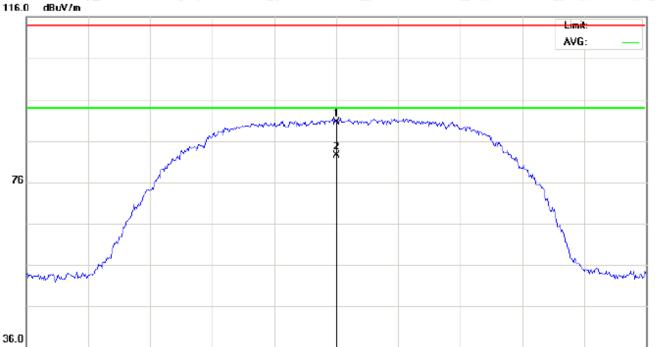
10.32

79.91

69.59

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

2439.000 2439.40 2439.80 2440.20 2440.60 2441.00 2441.40 2441.80 2442.20 2443.00 MHz

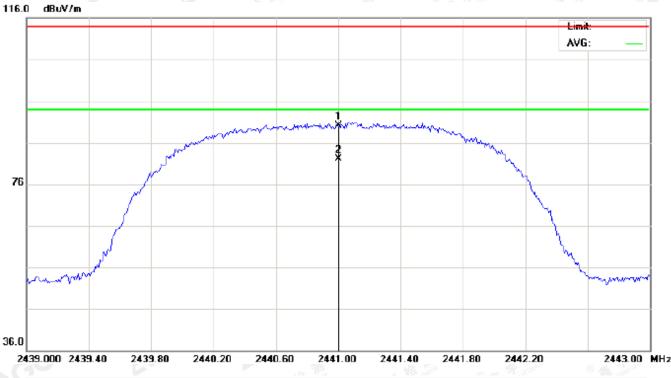
(1												(C) And the second
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1.13	1		2441.000	80.18	10.36	90.54	114.00	-23.46	peak			
	2	*	2441.000	72.19	10.36	82.55	94.00	-11.45	AVG	100	139	

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
2		•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
stal	1		2441.000	79.78	10.36	90.14	114.00	-23.86	peak			
	2	*	2441.000	71.69	10.36	82.05	94.00	-11.95	AVG	100	218	

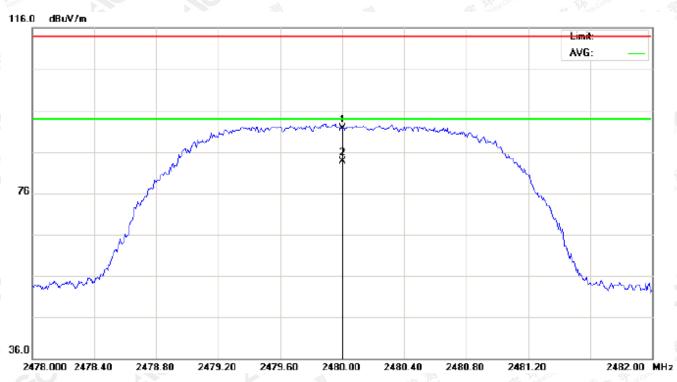
RESULT: PASS

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

9												C ALL LON
	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	
8	1		2480.000	81.21	10.41	91.62	114.00	-22.38	peak			
	2	*	2480.000	73.30	10.41	83.71	94.00	-10.29	AVG	100	134	

RESULT: PASS

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

36.0

2	478.0	000	2478.40	2478.80	2479.20	2479.60	2480.00	24	80.40	2480.80	2481.20) 2482.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	3/0
		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
	1		2480.000	80.72	10.41	91.13	114.00	-22.87	peak				
	2	*	2480.000	72.73	10.41	83.14	94.00	-10.86	AVG	100	216		

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

Reading Level	Factor	Measurement	Limit	Over	Antenna
(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
77.99	10.32	88.31	114	-25.69	Horizontal
77.53	10.32	87.85	114	-26.15	Vertical
80.18	10.36	90.54	114 🐋	-23.46	Horizontal
79.78	10.36	90.14	114	-23.86	Vertical
81.21	10.41	91.62	114	-22.38	Horizontal
80.72	10.41	91.13	114	-22.87	Vertical
	Level (dBuv) 77.99 77.53 80.18 79.78 81.21	Level Factor (dBuv) (dB/m) 77.99 10.32 77.53 10.32 80.18 10.36 79.78 10.36 81.21 10.41	LevelFactorMeasurement(dBuv)(dB/m)(dBuv/m)77.9910.3288.3177.5310.3287.8580.1810.3690.5479.7810.3690.1481.2110.4191.62	LevelFactorMeasurementLimit(dBuv)(dB/m)(dBuv/m)(dBuv/m)77.9910.3288.3111477.5310.3287.8511480.1810.3690.5411479.7810.3690.1411481.2110.4191.62114	LevelFactorMeasurementLimitOver(dBuv)(dB/m)(dBuv/m)(dBuv/m)(dB)77.9910.3288.31114-25.6977.5310.3287.85114-26.1580.1810.3690.54114-23.4679.7810.3690.14114-23.8681.2110.4191.62114-22.38

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	70.02	10.32	80.34	94 0	-13.66	Horizontal	
2402	69.59	10.32	79.91	94	-14.09	Vertical	
2441	72.19	10.36	82.55	94	-11.45	Horizontal	
2441	71.69	10.36	82.05	94	-11.95	Vertical	
2480	73.30	10.41	83.71	94	-10.29	Horizontal	
2480	72.73	10.41	83.14	94	-10.86	Vertical	

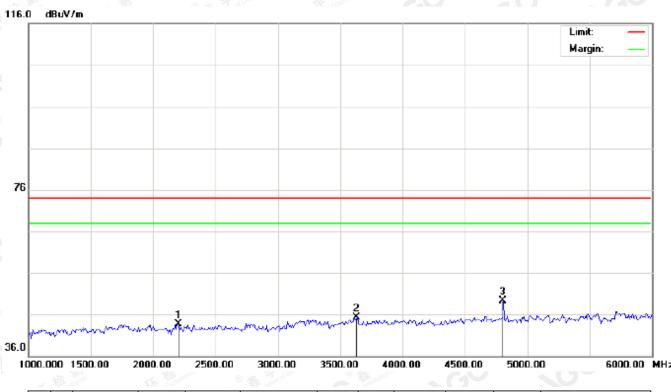
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For Harmonics



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	dBuV/m	dB		cm	degree	
1		2200.000	33.65	10.10	43.75	74.00	-30.25	peak			
2		3633.333	32.44	12.93	45.37	74.00	-28.63	peak			
3	*	4804.000	41.71	7.69	49.40	74.00	-24.60	peak			

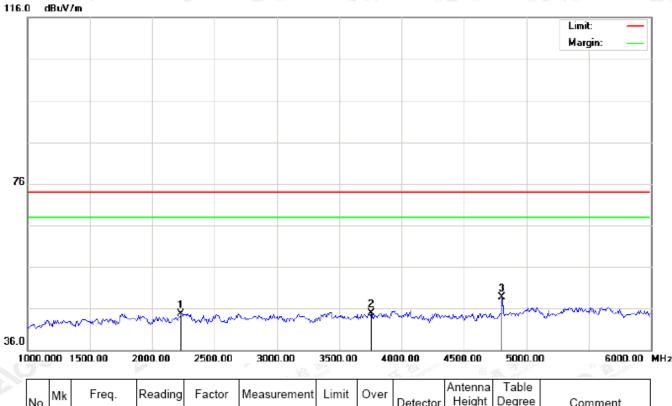
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2233.333	34.55	10.14	44.69	74.00	-29.31	peak			
2		3758.333	31.21	13.70	44.91	74.00	-29.09	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

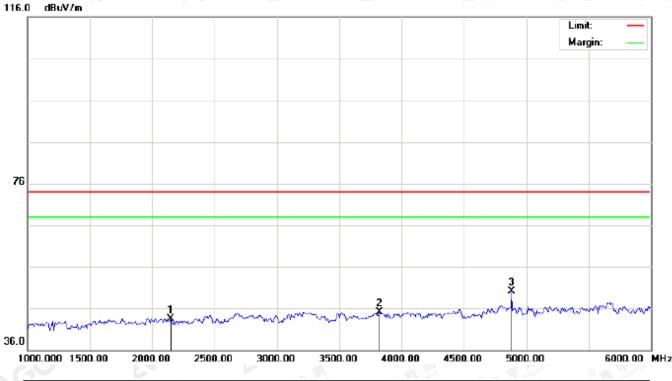
RESULT: PASS

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

No	. м	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2150.000	33.37	10.04	43.41	74.00	-30.59	peak			
2		3825.000	30.90	14.11	45.01	74.00	-28.99	peak			
3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak			

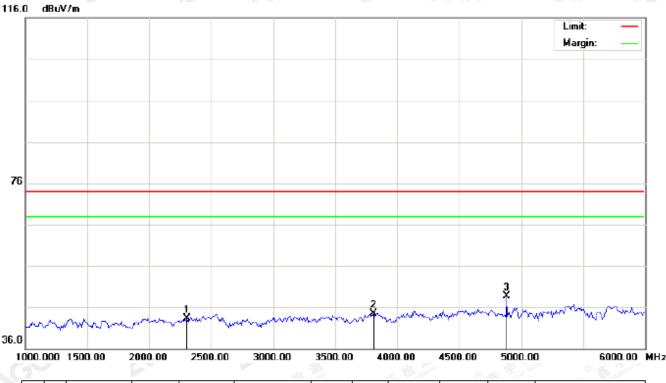
RESULT: PASS

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

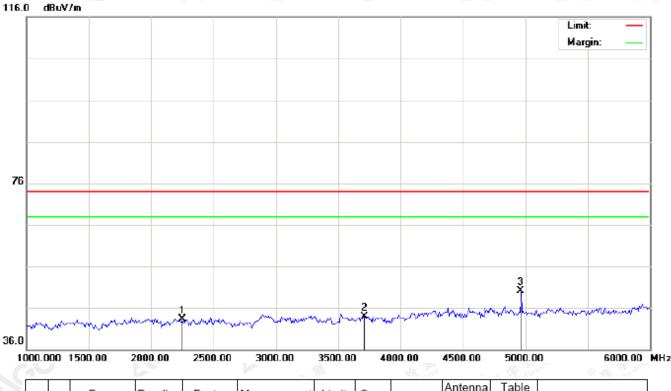
N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
10	1		2300.000	33.17	10.21	43.38	74.00	-30.62	peak			
1	2		3808.333	30.49	14.01	44.50	74.00	-29.50	peak			
· ·	3	*	4882.000	40.89	7.89	48.78	74.00	-25.22	peak			

RESULT: PASS

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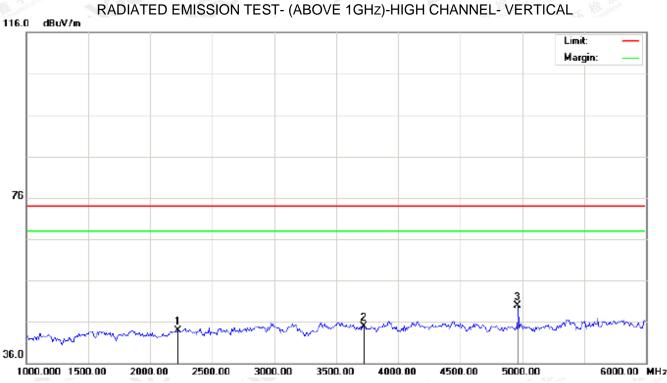
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

						- Para			107 No. 200 Co. Co. C	~~~		- JELIGI NUC
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		2250.000	33.13	10.15	43.28	74.00	-30.72	peak			
Γ	2		3708.333	30.59	13.39	43.98	74.00	-30.02	peak			
	3	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

RESULT: PASS

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		163	00						1.2			15.20°	7 IN
	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		2225.000	33.79	10.13	43.92	74.00	-30.08	peak				
stat	2		3725.000	31.42	13.50	44.92	74.00	-29.08	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

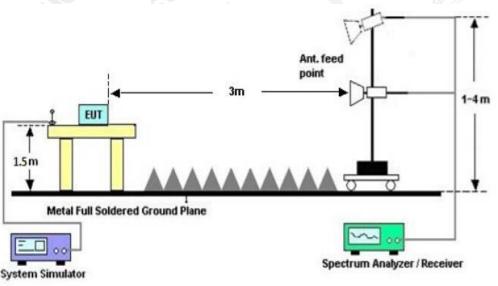
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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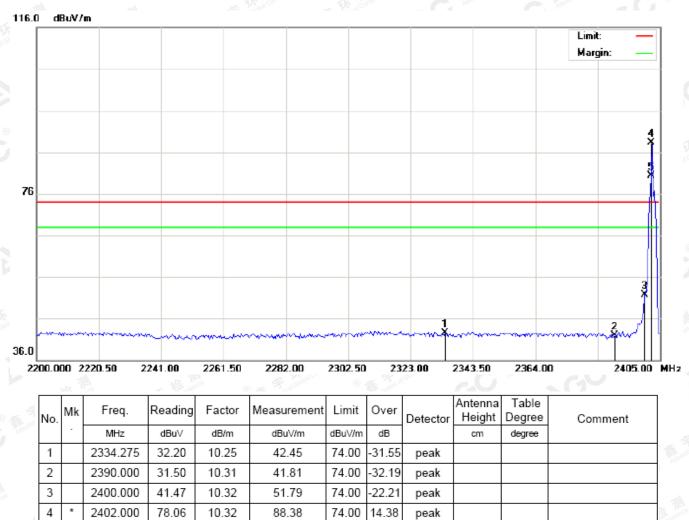




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10.3 RADIATED TEST RESULT

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



74.00

6.29

AVG

100

136

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5 X

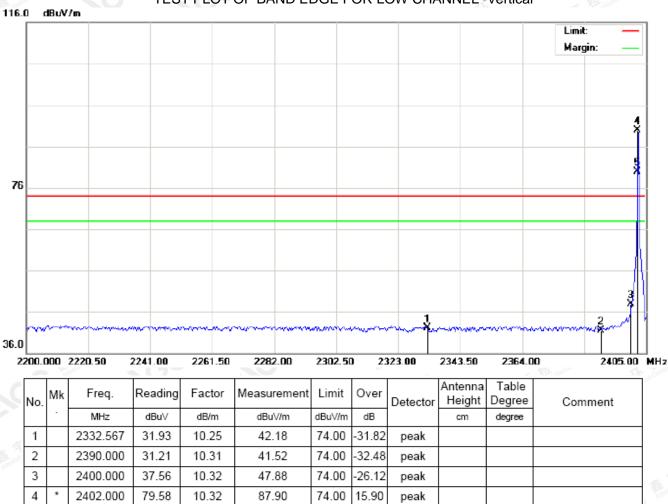
2402.000

69.97

10.32

80.29





74.00

5.96

AVG

100

214

79.96

10.32

69.64

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

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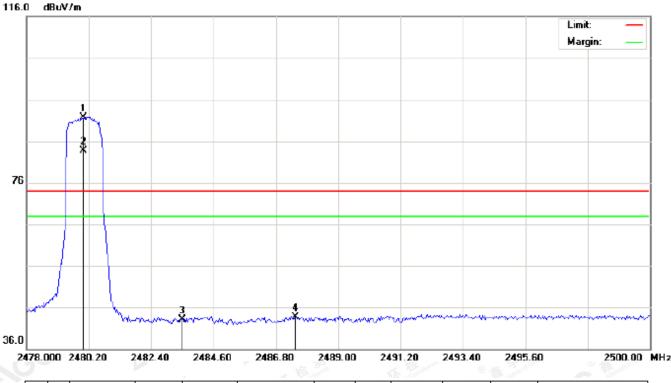
5

Х

2402.000



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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

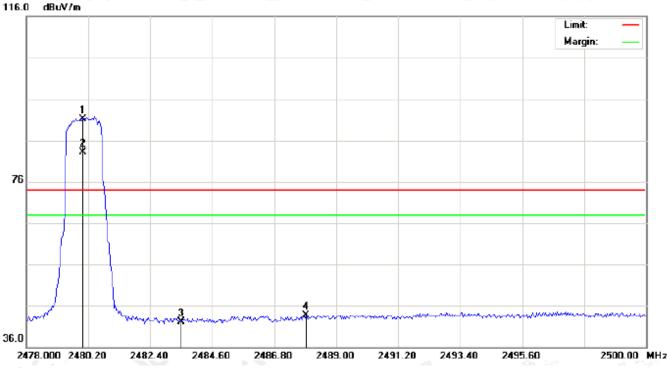
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ġ		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
sta	1	*	2480.000	81.25	10.41	91.66	74.00	17.66	peak			
	2	Х	2480.000	73.35	10.41	83.76	74.00	9.76	AVG	100	133	
	3		2483.500	32.69	10.41	43.10	74.00	-30.90	peak			
	4		2487.497	33.27	10.42	43.69	74.00	-30.31	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	dBuV/m	dB			cm deg	degree	
3	1	*	2480.000	80.77	10.41	91.18	74.00	17.18	peak				
13	2	Х	2480.000	72.69	10.41	83.10	74.00	9.10	AVG	100	215		
	3		2483.500	31.76	10.41	42.17	74.00	-31.83	peak				
	4		2487.937	33.37	10.42	43.79	74.00	-30.21	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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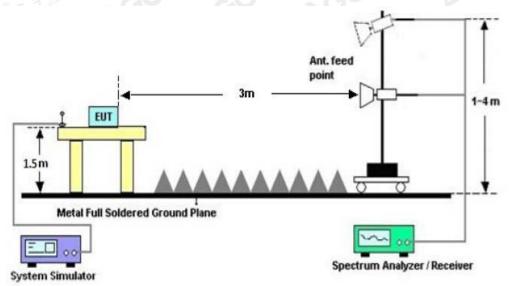
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11. 20DB BANDWIDTH

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

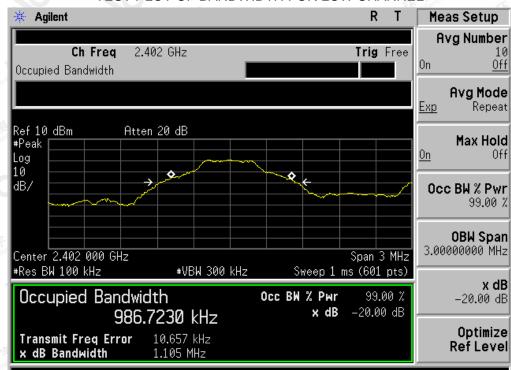


11.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		Decult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
Har The Standard	Low Channel	0.987	1.105	PASS				
N/A	Middle Channel	0.981	1.098	PASS				
	High Channel	0.979	1.108	PASS				

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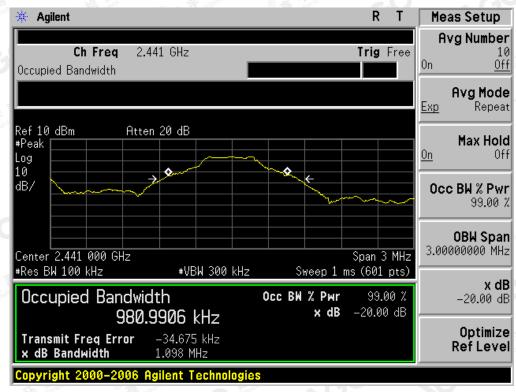


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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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

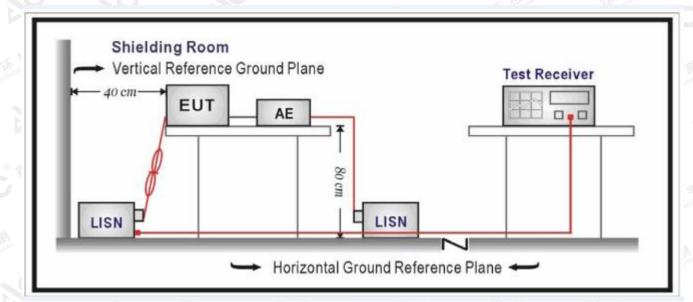
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56 °	46					
5MHz~30MHz	60	50					

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 was power supplied by dry battery.

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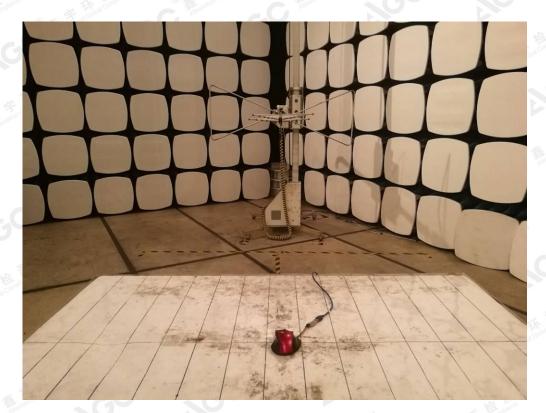




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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP



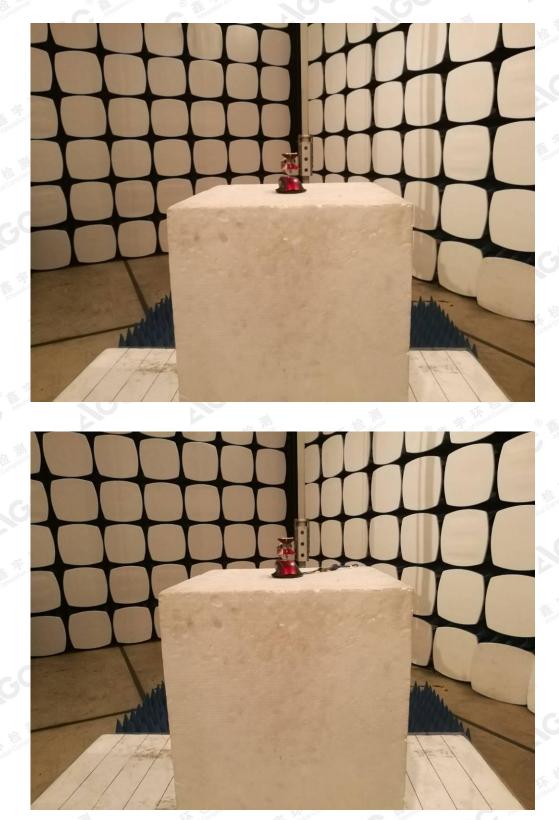


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APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT

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

001 09 09 08 00 10 OL 02 0L Ó 50 07 0,2 0.8 10 30 0.0 07 09 0.9 0.6 001 50 50

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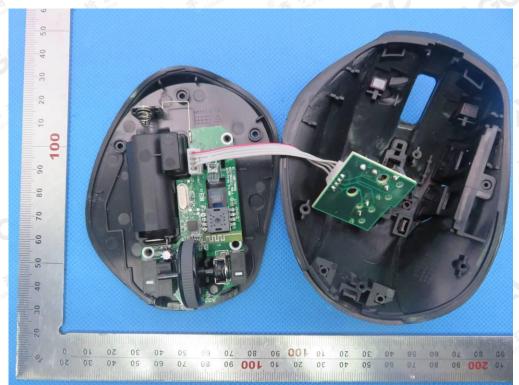


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VIEW OF EUT (PORT)



OPEN VIEW OF EUT

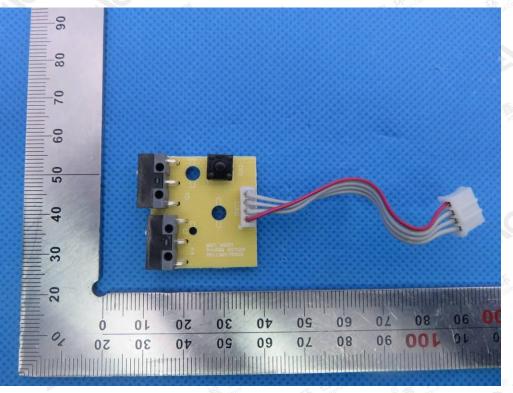


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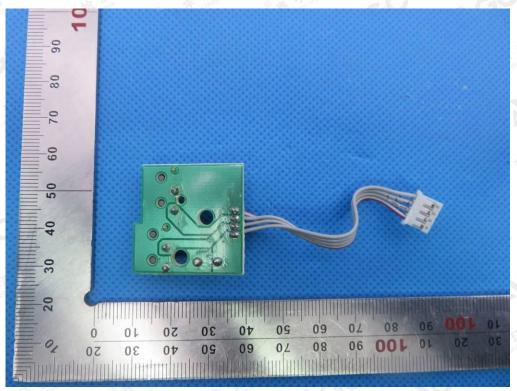


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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

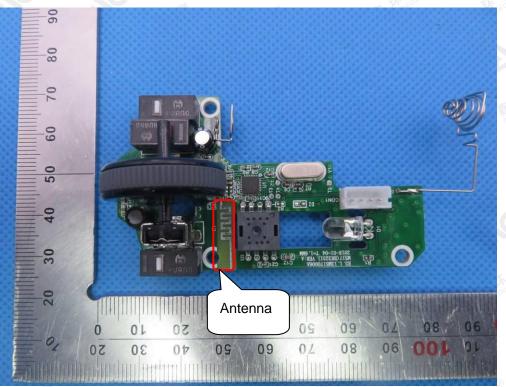


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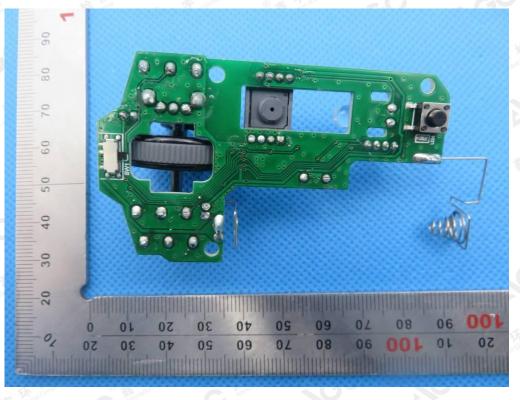


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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4

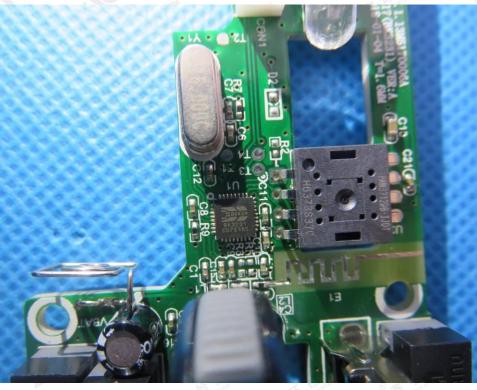


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INTERNAL VIEW OF EUT-5



----END OF REPORT----

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