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FCC Test Report

Report No.: AGC02154180302FE03

FCC ID	C	2A052-5B586BT
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	5 Global	Bluetooth Speaker
BRAND NAME		N/A
MODEL NAME	•	5B586BT, NAS-3090
CLIENT		Dongguan Eurosun Electronics Technology ltd
DATE OF ISSUE	11	Apr. 02, 2018
STANDARD(S) TEST PROCEDURE(S)	iliano i	FCC Part 15 Subpart C Section 15.249
REPORT VERSION	ŀ	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version	Revise Time	Issued Date	Valid Version	Notes		
V1.0		Apr. 02, 2018	Valid	Initial release		

Report Revise Record

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Applicant	Dongguan Eurosun Electronics Technology Itd			
Address	No 1.Guangchang Road,Qiaotou Town,Dongguan City,China			
Manufacturer Dongguan Eurosun Electronics Technology Itd				
Address	No 1.Guangchang Road, Qiaotou Town, Dongguan City, China			
Product Designation	Bluetooth Speaker			
Brand Name	N/A			
Test Model	5B586BT			
Series Model	NAS-3090			
Difference Description	All the same except for the model name			
Date of test	Mar. 19, 2018 to Apr. 02, 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.

Jonhan Wand

Tested By

Jonhen Wang(Wang Yonghuan) Apr. 02, 2018

Reviewed By

owest in

Forrest Lei(Lei Yonggang)

Apr. 02, 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	3.63dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V2.1+EDR
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V1.1
Software Version	V4.2
Antenna Designation	PCB Antenna
Antenna Gain	OdBi
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
NO S	0	2402MHz
The Barrense	The stand of the stand	2403MHz
C Standard Color	GC : CC	
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The transferrer @ The Transferrer Contract	40 0	2442 MHz
of colored and a		
	77	2479 MHz
The the second	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 = ±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 The Completion	Low channel GFSK					
2	Middle channel GFSK					
3	High channel GFSK					
4	Low channel π /4-DQPSK					
E The 5 The Barrier	Middle channel π /4-DQPSK					
6	High channel π /4-DQPSK					
6 7	Low channel 8DPSK					
8	Middle channel 8DPSK					
F To a Color 9 @ The section of Color	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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		Software Setting	C # ration of Clothe	C & for of Cloba	© .
BK3256 RF Test	- ¥1.3				3
2件(E) 帮助(H) BF测试				-	
	通讯端口 COM2	Close			Stobal C
RF测试 仪器测试 DUT测试模式	· 软件测试		退出测试		A
[attach 0] TS		☐ Hopping 包类型 2-DH3 ▼			3
saradc_charger_full init finished Bluetooth controlle IA app_wave_file_play_ [enable_complete 01 [CMD] singlewave te app_bt_enable_dut_m	- r enabled: fc:58:fa: stop() DO] st mode enable	66 : 24 : 31			
OK app_wave_file_play_ Bluetooth controlle: [disable_complete O Enter Dut test mode	stop() r disabled: fc:58:fs 00] success! fig. d mode: 1, freq;	1:66:24:31 2, power level: 1, p_mode: 5, hoppi:	ng: 0.		
J			~		- Th

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



PC or Adapter

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

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth Speaker	Eurosun	5B586BT	EUT
2	Battery	XRXD	053040	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	BEKEN	N/A	A.E
5	Adapter	N/A	MX12X8-0502000UU	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	USB Cable	N/A	0.6m unshielded	Accessory

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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, C Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials C 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
Loop Antenna	A.H.Systems,Inc	SAS-562B	C ^M	Mar. 01, 2018	Feb. 28, 2020

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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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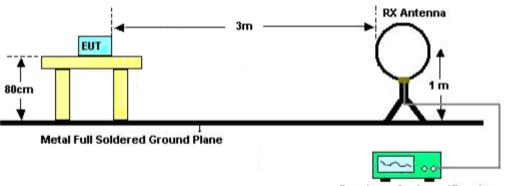


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9.3. TEST SETUP

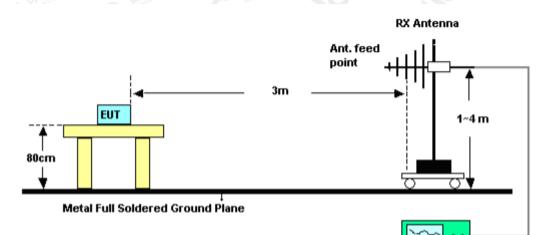
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



Spectrum Analyzer / Receiver

Spectrum Analyzer / Receiver

RADIATED EMISSION TEST SETUP 30MHz-1000MHz

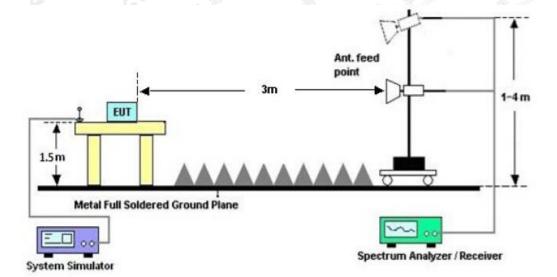


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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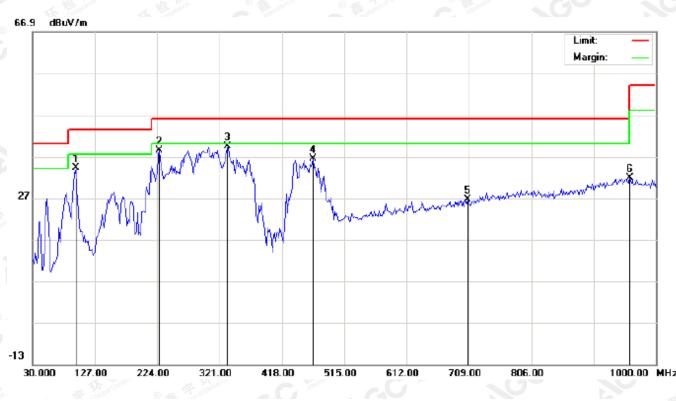
9.4. TEST RESULT

(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

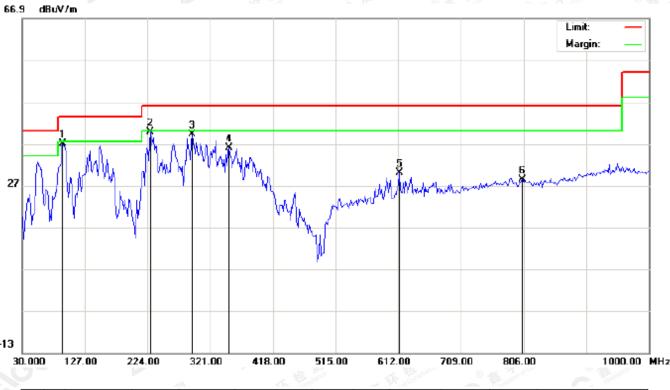


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		97.9000	25.85	8.38	34.23	43.50	-9.27	peak			
2		227.2333	29.13	9.22	38.35	46.00	-7.65	peak			
3	*	333.9332	21.79	17.67	39.46	46.00	-6.54	peak			
4		466.5000	15.57	20.77	36.34	46.00	-9.66	peak			
5		707.3832	1.27	25.43	26.70	46.00	-19.30	peak			
6		959.5833	1.95	29.91	31.86	46.00	-14.14	peak			

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
100	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	1	cm	degree	
1		93.0499	34.20	2.79	36.99	43.50	-6.51	peak			
2	*	228.8499	28.00	11.83	39.83	46.00	-6.17	peak			
3		293.5167	23.97	15.21	39.18	46.00	-6.82	peak			
4		350.1000	17.24	18.74	35.98	46.00	-10.02	peak			
5		613.6167	6.98	23.04	30.02	46.00	-15.98	peak			
6		804.3832	1.09	27.32	28.41	46.00	-17.59	peak			

RESULT: PASS

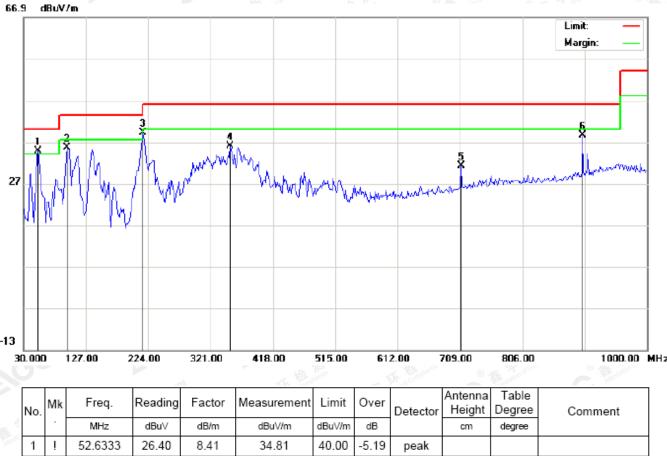
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

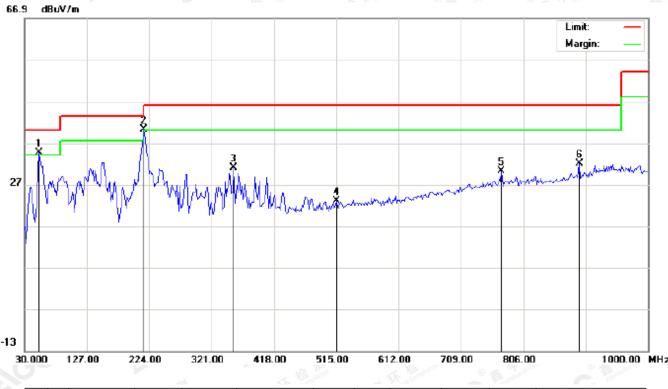
2 97.9000 27.20 8.38 35.58 43.50 -7.92 peak * 3 215.9167 28.81 10.38 39.19 43.50 -4.31 peak 4 351.7167 17.24 18.75 35.99 46.00 -10.01peak 5 710.6167 5.78 25.52 31.30 46.00 -14.70 peak 6 899.7667 10.09 28.60 38.69 46.00 -7.31 peak

RESULT: PASS

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
NN		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
	1	İ	52.6333	26.44	8.22	34.66	40.00	-5.34	peak			
	2	*	215.9167	29.58	10.56	40.14	43.50	-3.36	peak			
	3		354.9500	12.22	18.77	30.99	46.00	-15.01	peak			
	4		515.0000	1.50	21.53	23.03	46.00	-22.97	peak			
ſ	5		772.0500	3.25	26.93	30.18	46.00	-15.82	peak			
	6		893.3000	3.64	28.44	32.08	46.00	-13.92	peak			

RESULT: PASS

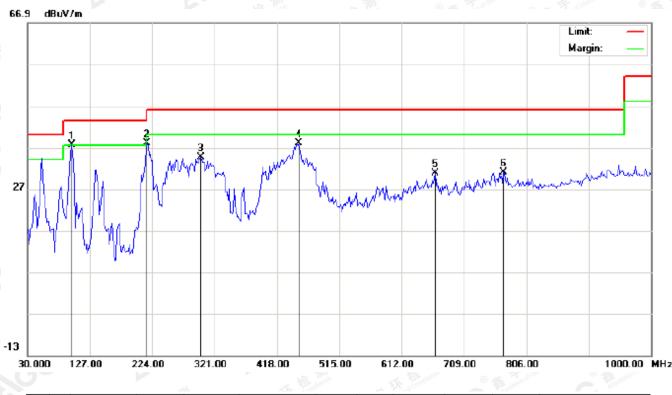
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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

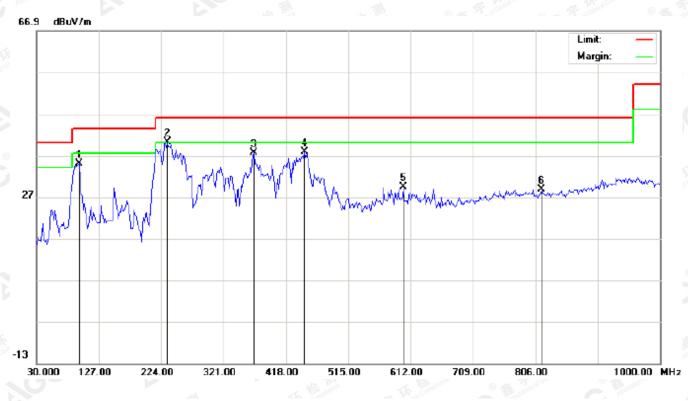
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
10		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
3510	1	İ	99.5167	27.63	10.00	37.63	43.50	-5.87	peak			
	2	*	215.9167	27.70	10.38	38.08	43.50	-5.42	peak			
	3		299.9833	19.25	15.41	34.66	46.00	-11.34	peak			
	4		451.9500	17.47	20.61	38.08	46.00	-7.92	peak			
	5		663.7333	6.59	24.23	30.82	46.00	-15.18	peak			
1	6		770.4333	4.11	26.91	31.02	46.00	-14.98	peak			

RESULT: PASS

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

N	о.	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		96.2833	34.91	0.05	34.96	43.50	-8.54	peak			
	2	*	233.7000	27.87	12.30	40.17	46.00	-5.83	peak			
	3		367.8833	18.69	18.86	37.55	46.00	-8.45	peak			
	4		447.1000	17.22	20.50	37.72	46.00	-8.28	peak			
	5		600.6833	6.58	22.75	29.33	46.00	-16.67	peak			
	6		815.7000	1.56	27.32	28.88	46.00	-17.12	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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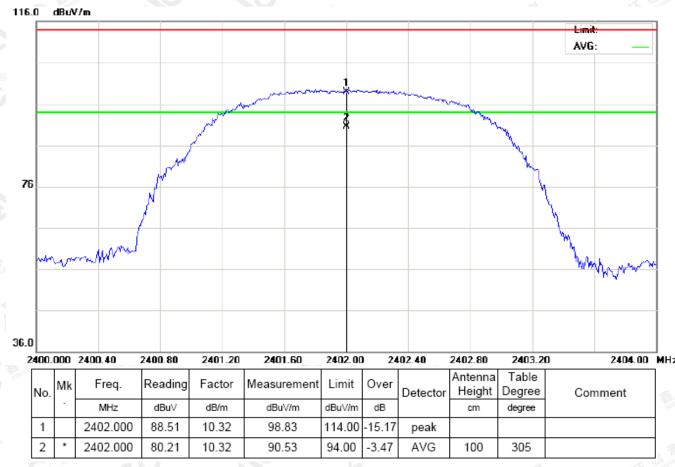
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



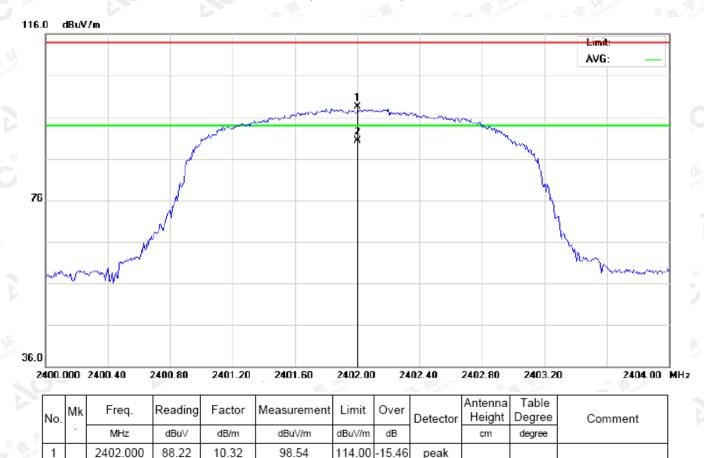
RESULT: PASS

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94.00

-3.79

AVG

100

154

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

RESULT: PASS

2

2402.000

79.89

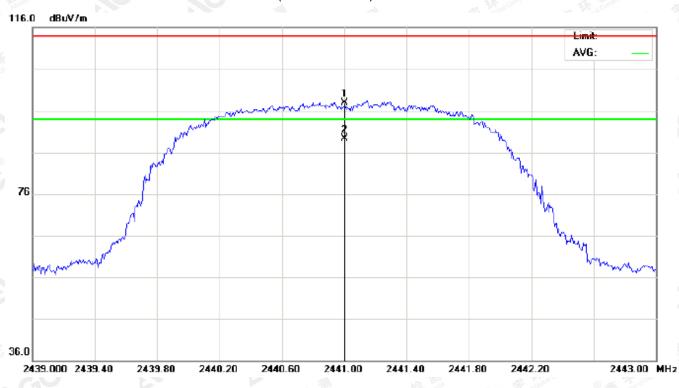
10.32

90.21

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

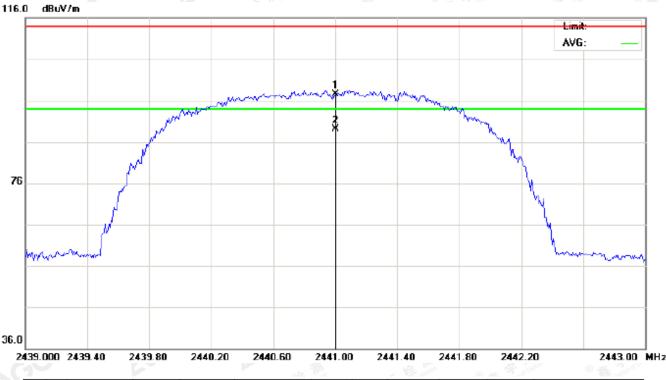
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
-		•	MHz	dBu∀	dB/m	dBu\//m	dBu∨/m	dB		cm	degree	
30	1		2441.000	87.51	10.36	97.87	114.00	-16.13	peak			
	2	*	2441.000	78.91	10.36	89.27	94.00	-4.73	AVG	100	350	

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	dBu\//m	dB		cm	degree	
10	1		2441.000	87.18	10.36	97.54	114.00	-16.46	peak			
	2	*	2441.000	78.65	10.36	89.01	94.00	-4.99	AVG	100	120	

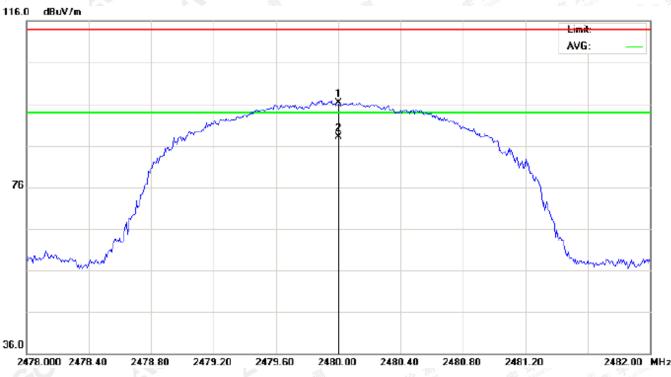
RESULT: PASS

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

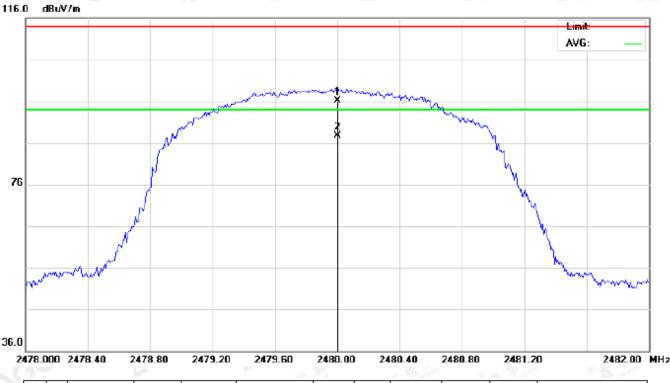
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
510'	1		2480.000	85.97	10.41	96.38	114.00	-17.62	peak			
	2	*	2480.000	77.67	10.41	88.08	94.00	-5.92	AVG	100	324	

RESULT: PASS

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

				-								P34.3P1 (2012)
	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	
10	1		2480.000	85.63	10.41	96.04	114.00	-17.96	peak			
	2	*	2480.000	77.24	10.41	87.65	94.00	-6.35	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 Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	88.51	10.32	98.83	114	-15.17	Horizontal	
2402	88.22	10.32	98.54	114	-15.46	Vertical	
2441	87.51	10.36	97.87	114	-16.13 🙀	Horizontal	
2441	87.18	10.36	97.54	114	-16.46	Vertical	
2480	85.97	10.41	96.38	114	-17.62	Horizontal	
2480	85.63	10.41	96.04	114	-17.96	Vertical	

Average value

Frequency	Reading Level	Factor Measurement		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	80.21	10.32	90.53	94	-3.47	Horizontal	
2402	79.89	10.32	90.21	94	-3.79	Vertical	
2441	78.91	10.36	89.27	94	-4.73	Horizontal	
2441	78.65	10.36	89.01	94	-4.99	Vertical	
2480	77.67	10.41	88.08	94	-5.92	Horizontal	
2480	77.24	10.41	87.65	94	-6.35	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	88.06	10.32	98.38	114	-15.62	Horizontal	
2402	87.79	10.32	98.11	114	-15.89	Vertical	
2441	87.01	10.36	97.37	114	-16.63	Horizontal	
2441	86.83	10.36	97.19	114	-16.81 👝	Vertical	
2480	85.56	10.41	95.97	114	-18.03	Horizontal	
2480	85.22	10.41	95.63	114	-18.37	Vertical	

Average value

Frequency	Reading Level	Factor Measurement		Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.85	10.32	90.17	94	-3.83	Horizontal
2402	79.57	10.32	89.89	94	-4.11	Vertical
2441	78.41	10.36	88.77	94	-5.23	Horizontal
2441	78.20	10.36	88.56	94	-5.44	Vertical
2480	77.25	10.41	87.66	94	-6.34	Horizontal
2480	76.92	10.41	87.33	94	-6.67	Vertical

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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	87.65	10.32	97.97	114	-16.03	Horizontal	
2402	87.48	10.32	97.80	114	-16.20	Vertical	
2441	86.64	10.36	97.00	114	-17.00	Horizontal	
2441	86.53	10.36	96.89	114	-17.11 🕞	Vertical	
2480	85.14	10.41	95.55	114	-18.45	Horizontal	
2480	84.79	10.41	95.20	114	-18.80	Vertical	

Average value

Frequency	Reading Level Factor		Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.52	10.32	89.84	94	-4.16	Horizontal	
2402	79.13	10.32	89.45	94	-4.55	Vertical	
2441	78.11	10.36	88.47	94	-5.53	Horizontal	
2441	77.85	10.36	88.21	94	-5.79	Vertical	
2480	76.77	10.41	87.18	94	-6.82	Horizontal	
2480	76.50	10.41	86.91	94	-7.09	Vertical	

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(Worst modulation: GFSK)

FOR BR/EDR

For Harmonics

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

116.0 dBuV/m Limit: Margin: 76 36.0 1000.000 1500.00 6000.00 MHz 2000.00 2500.00 3000.00 3500.00 4000.00 4500.00 5000.00 Antenna Table Freq. Reading Factor Measurement Limit Over Mk Height Degree No. Detector Comment MHz dBu∨ dB/m dBuV/m dBuV/m dB cm degree 2175.000 34.00 10.07 44.07 74.00 -29.93 1 peak 2 3616.667 33.55 12.83 46.38 74.00 27.62 peak 74.00 4804.000 7.69 50.90 3 43.21 23.10 peak

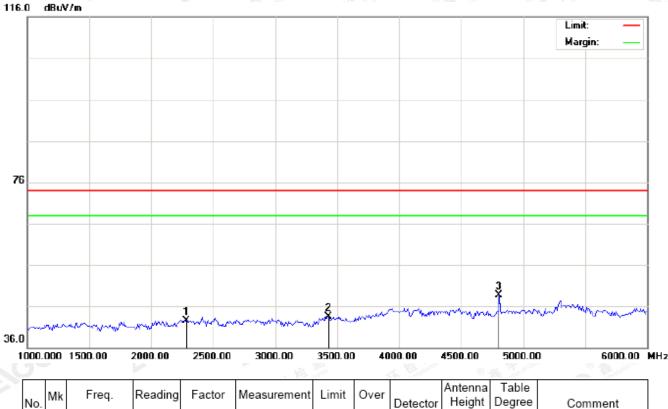
RESULT: PASS

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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
3	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2283.333	32.41	10.19	42.60	74.00	-31.40	peak			
2		3433.333	31.54	12.05	43.59	74.00	-30.41	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

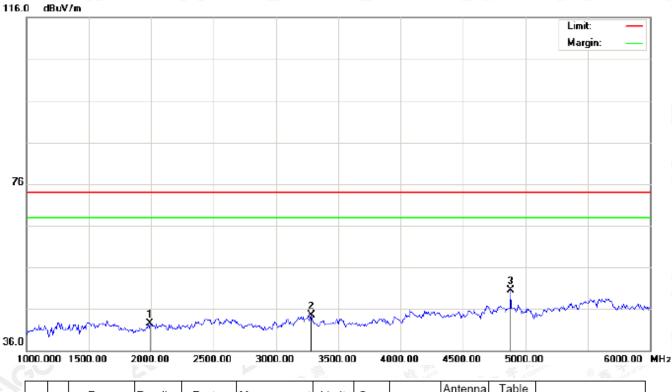
RESULT: PASS

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

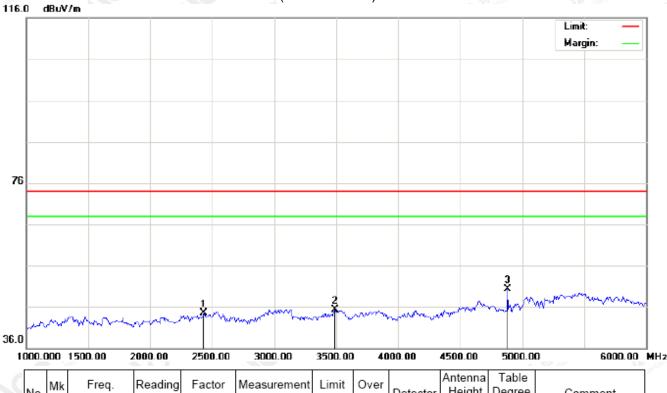
						- Pas	14		2 III. 6 206 COOL	-		- JE-PSL _100
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
	1		1991.667	32.70	9.79	42.49	74.00	-31.51	peak			
ſ	2		3283.333	32.67	11.91	44.58	74.00	-29.42	peak			
	3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

RESULT: PASS

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∨	dB/m	dBu\//m	dBu∨/m	dB		cm	degree	
2	1		2433.333	34.05	10.36	44.41	74.00	-29.59	peak			
121	2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
	3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

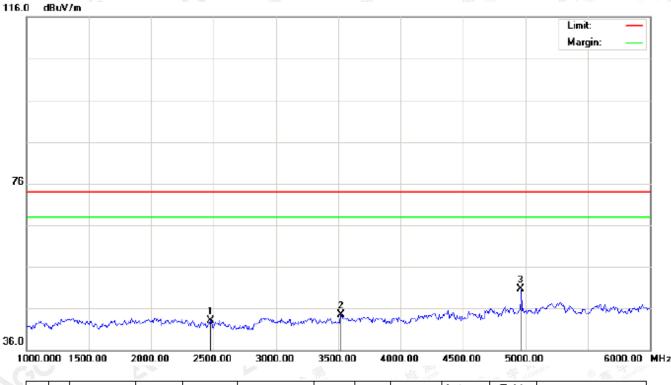
RESULT: PASS

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

	۷o.	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	
1.1	1		2475.000	32.73	10.40	43.13	74.00	-30.87	peak			
	2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
	3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

RESULT: PASS

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

1	000.	000	1500.00	2000.00	2500.00	3000.00	3500.00	40	00.00	4500.00	5000.00	6000.00	MH
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment]
		•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
	1		2475.000	33.61	10.40	44.01	74.00	-29.99	peak]
	2		3925.000	30.33	14.73	45.06	74.00	-28.94	peak]
	3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	peak				15%

RESULT: PASS

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

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

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



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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

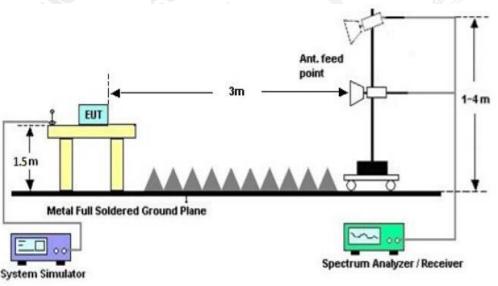
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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

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

Start frequenc	y(MHz)		Stop frequency(MH	z)
2200	The The second	not C Stratuto	2405	SC -
2478	Global C	GO	2500	
Aller Aller				2000

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

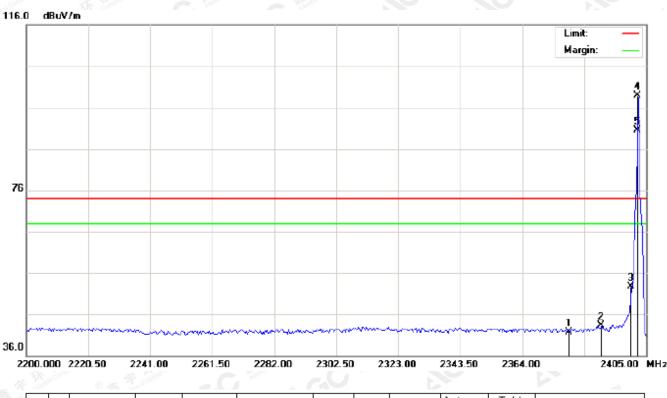


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

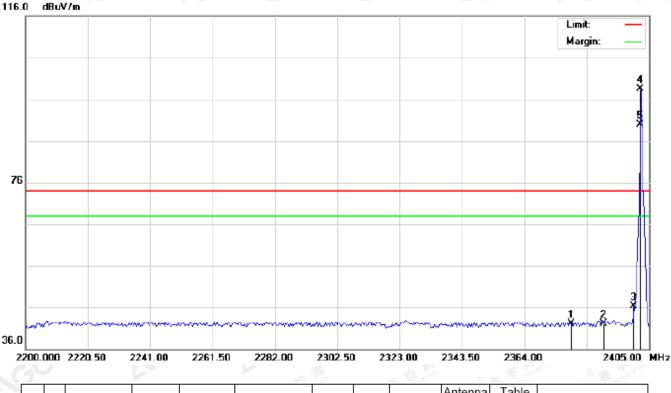


astali	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		2379.375	31.42	10.30	41.72	74.00	-32.28	peak			
	2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
. (3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
2	4	*	2402.000	88.49	10.32	98.81	74.00	24.81	peak			
	5	Х	2402.000	80.19	10.32	90.51	74.00	16.51	AVG	100	308	





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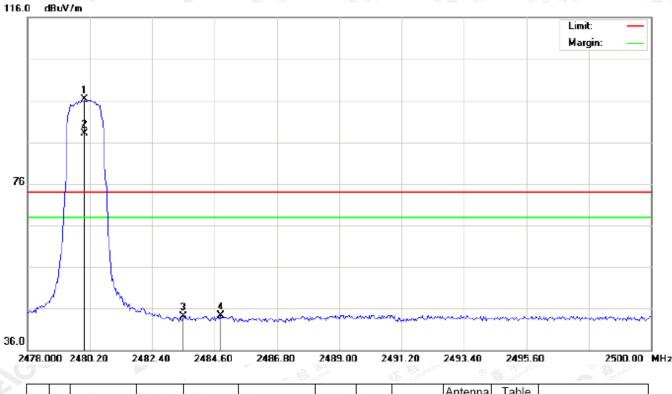
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2	-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2379.375	31.76	10.30	42.06	74.00	-31.94	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	88.22	10.32	98.54	74.00	24.54	peak			
5	Х	2402.000	79.66	10.32	89.98	74.00	15.98	AVG	100	164	





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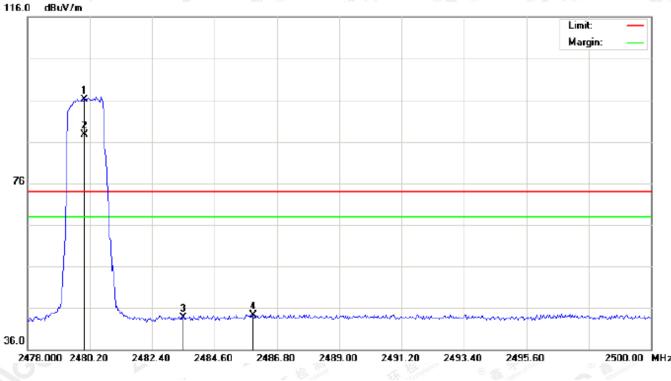
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∨	dB/m	dBuV/m	dBu\//m	dB		cm	degree	
stal	1	*	2480.000	85.96	10.41	96.37	74.00	22.37	peak			
	2	Х	2480.000	77.64	10.41	88.05	74.00	14.05	AVG	100	305	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2484.820	33.86	10.41	44.27	74.00	-29.73	peak			





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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă.	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	85.63	10.41	96.04	74.00	22.04	peak			
2	Х	2480.000	77.26	10.41	87.67	74.00	13.67	AVG	100	164	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.957	33.98	10.41	44.39	74.00	-29.61	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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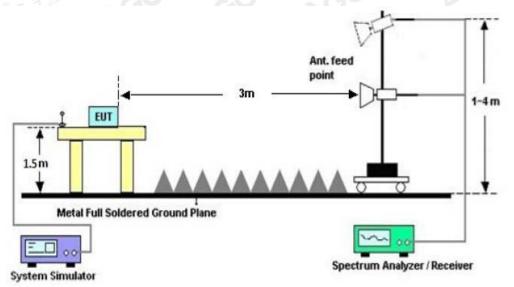
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11. 20DB BANDWIDTH

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.

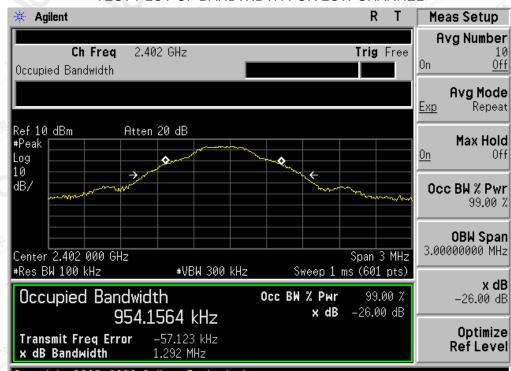
11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result							
Applicable Limits		Test Data (MHz)								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
the fill and the filler	Low Channel	0.954	1.292	PASS						
N/A	Middle Channel	0.958	1.314	PASS						
	High Channel	0.950	1.297	PASS						



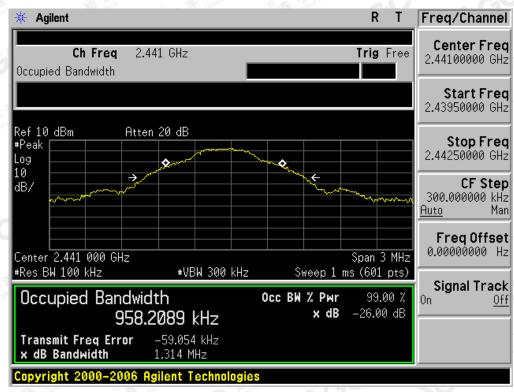


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



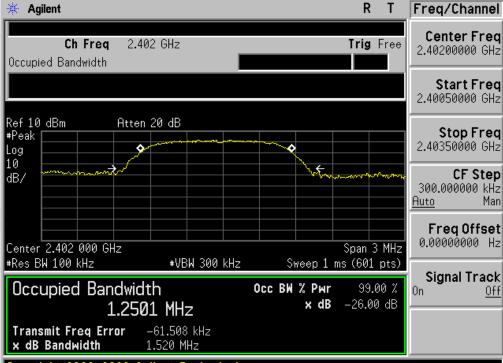


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Alle	Inter		- malor	XN 1 Court			
BLUET	DOTH 2MBPS LIN	IITS AND MEASU	REMENT RESULT				
	Measurement Result						
Applicable Limits		.					
		99%OBW (MHz)	-20dB BW(MHz)	Result			
A THE AND A REAL	Low Channel	1.250	1.520	PASS			
N/A	Middle Channel	1.253	1.505	PASS			
SGC M	High Channel	1.255	1.521	PASS			
		<u>(1)</u>	The Conton	Internet American			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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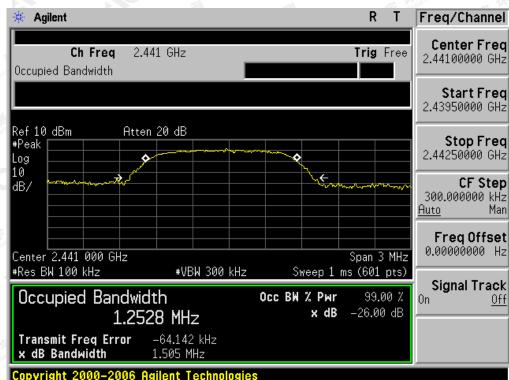
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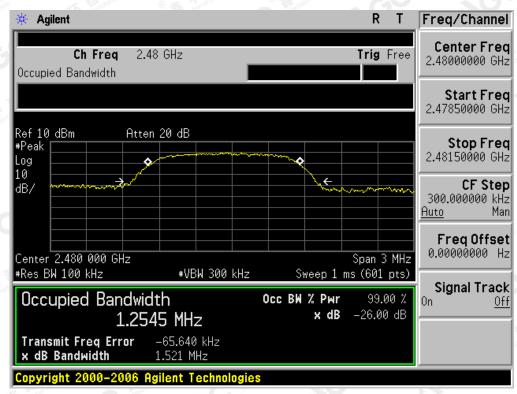
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Atte	liter	A. A. A. A. A. A. A. A. A. A. A. A. A. A	- Wind Co	EN COUL				
BLUET	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT					
		Measurement Result						
Applicable Limits		.						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The second second	Low Channel	1.230	1.498	PASS				
N/A	Middle Channel	1.251	1.521	PASS				
	High Channel	1.242	1.511	PASS				
		-2007	M. aco	Aur Aur				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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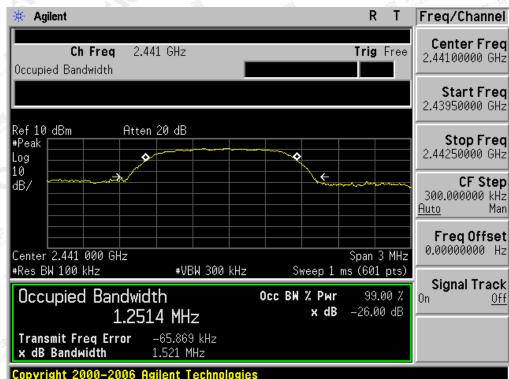
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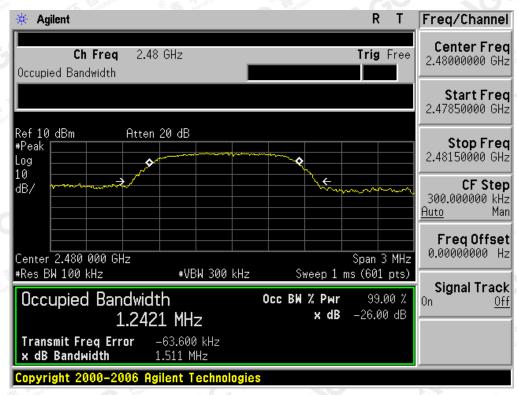
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

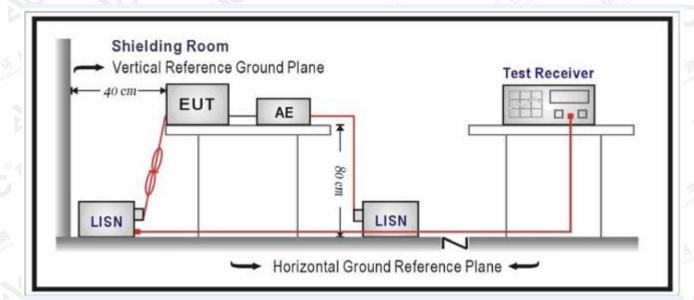
Francisco	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

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 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.



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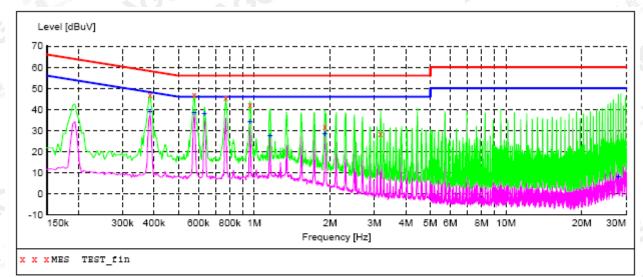
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

2

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2018/3/19 / 10	:05:37						
Frequency	Level	Transd	Limit	Margin	Detector	Line	\mathbf{PE}
MHz	dBuV	dB	dBuV	dB			
0.386000	46.80	11.4	58	11.3	Q₽	L1	FLO
0.578000	46.80	11.4	56	9.2	QP	L1	FLO
0.770000	45.30	11.4	56	10.7	QP	L1	FLO
0.962000	42.40	11.3	56	13.6	Q₽	L1	FLO
1.906000	31.90	11.3	56	24.1	QP	L1	FLO
3.174000	28.60	11.4	56	27.4	QP	L1	FLO

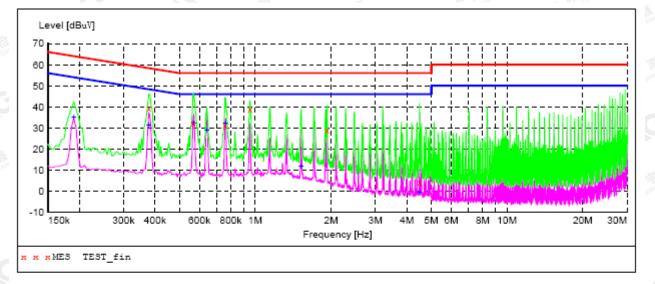
MEASUREMENT RESULT: "TEST fin2"

20	18/3/19 / 10	:05:37						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	\mathbf{PE}
	MHz	dBuV	dB	dBuV	dB			
	0.386000	38.70	11.4	48	9.4	AV	L1	FLO
	0.578000	38.40	11.4	46	7.6	AV	L1	FLO
	0.634000	37.80	11.4	46	8.2	AV	L1	FLO
	0.962000	34.00	11.3	46	12.0	AV	L1	FLO
	1.154000	27.50	11.3	46	18.5	AV	L1	FLO
	1.906000	28.50	11.3	46	17.5	AV	L1	FLO
	27.914000	7.80	11.0	50	42.2	AV	L1	FLO





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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "TEST fin"

2018/3/19 10:	03						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.378000	39.30	11.3	58	19.0	QP	Ν	FLO
0.566000	32.30	11.4	56	23.7	QP	Ν	FLO
0.758000	31.30	11.4	56	24.7	QP	N	FLO
0.954000	38.80	11.3	56	17.2	QP	Ν	FLO
1.926000	28.80	11.3	56	27.2	QP	Ν	FLO
4.490000	4.30	11.4	56	51.7	QP	Ν	FLO

MEASUREMENT RESULT: "TEST fin2"

2018/3/19 10	:03						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dB礌	dB	dB碼	dB			
0.190000	35.30	11.4	54	18.7	AV	N	FLO
0.378000	31.50	11.3	48	16.8	AV	N	FLO
0.570000	32.30	11.4	46	13.7	AV	Ν	FLO
0.642000	28.80	11.4	46	17.2	AV	Ν	FLO
0.762000	32.20	11.4	46	13.8	AV	N	FLO
1.522000	11.60	11.3	46	34.4	AV	N	FLO
4.490000	-0.70	11.4	46	46.7	AV	N	FLO

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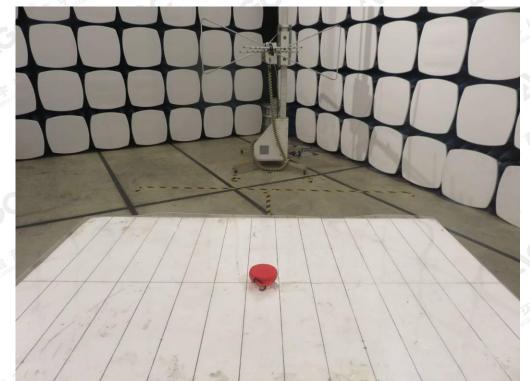


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



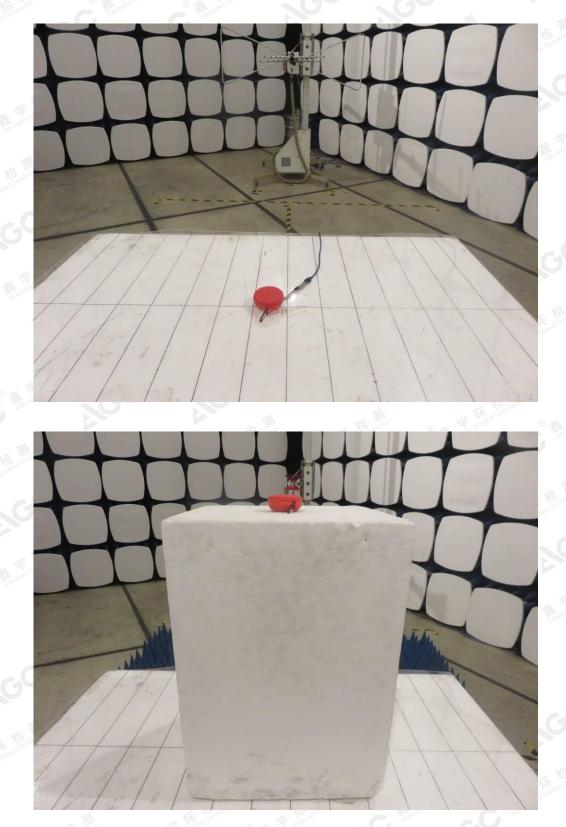
FCC RADIATED EMISSION TEST SETUP







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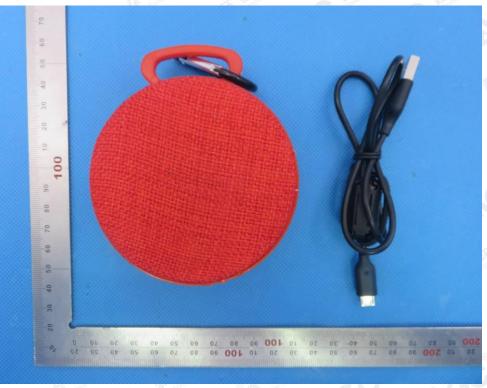




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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT





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BOTTOM VIEW OF EUT



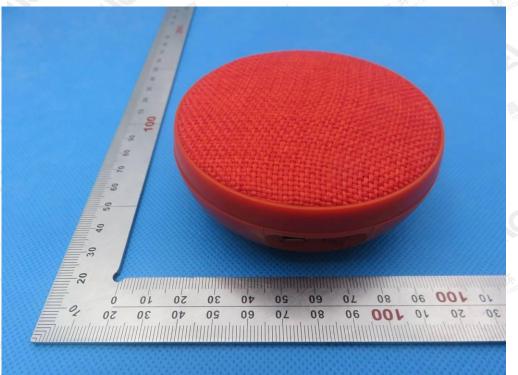
FRONT VIEW OF EUT





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BACK VIEW OF EUT



LEFT VIEW OF EUT







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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)





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VIEW OF BATTERY

XRXD 053040 3.7V 300mAh 2017

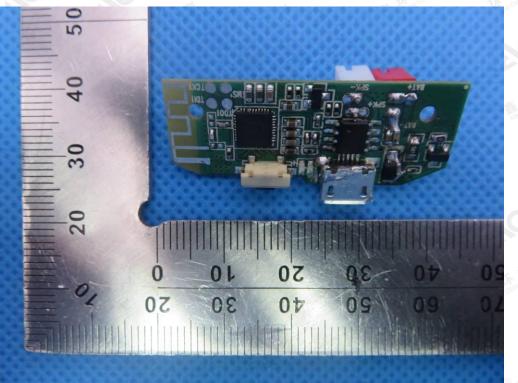
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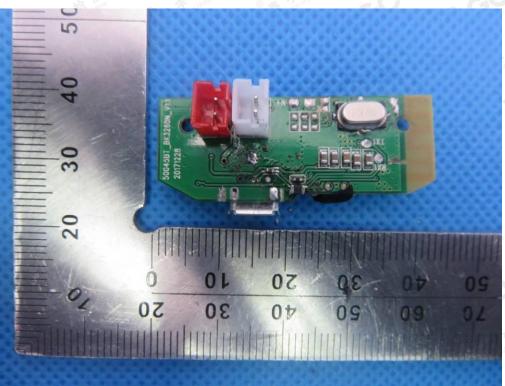


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INTERNAL VIEW OF EUT-2

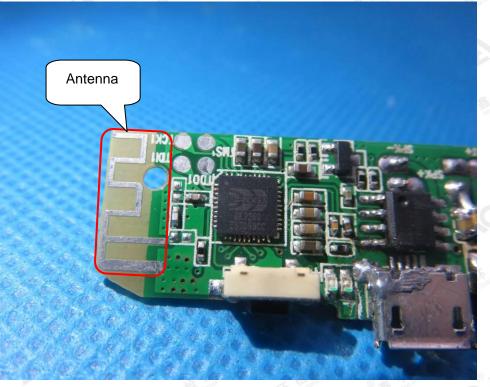






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INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

----END OF REPORT----

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