

FCC Test Report

Report No.: AGC02764180301FE03

FCC ID : 2ALJX-SP330

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: SP330

BRAND NAME : WK

MODEL NAME : SP330

CLIENT: Shenzhen WK Technology Co., Ltd

DATE OF ISSUE : Mar. 23, 2018

STANDARD(S)

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

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC 3

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Attestation of Global Compliance

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	planes 1 S	Mar. 23, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen WK Technology Co., Ltd
Address	1F, A2 Building, Mingjun Industrial Park, Huarong Road. Dalang, Longhua Area
Manufacturer	Shenzhen WK Technology Co., Ltd
Address	1F, A2 Building, Mingjun Industrial Park, Huarong Road. Dalang, Longhua Area
Product Designation	SP330
Brand Name	WK SEE SEE SEE SEE SEE SEE SEE SEE SEE SE
Test Model	SP330
Date of test	Mar. 14, 2018 to Mar. 23, 2018
Deviation	None None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By	Harry Zhang	
To de Completion @ March	Henry Zhang(Zhang Zhuorui)	Mar. 23, 2018
Reviewed By	Foresto ce	
The formular of	Forrest Lei(Lei Yonggang)	Mar. 23, 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	2.15dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	v1.4
Software Version	V4.2
Antenna Designation	PCB Antenna
Antenna Gain	0.8dBi
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency		
2400~2483.5MHz	0	2402MHz		
, C	1 1	2403MHz		
The Williams	The state of the s			
S SEE STATE OF CLUDAR CO.	38	2440 MHz		
CC CC	39	2441 MHz		
	40	2442 MHz		
The Completion & Marian of College Conn	20 - 6			
GC Marie CG	77	2479 MHz		
	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%.

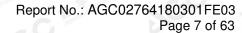
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

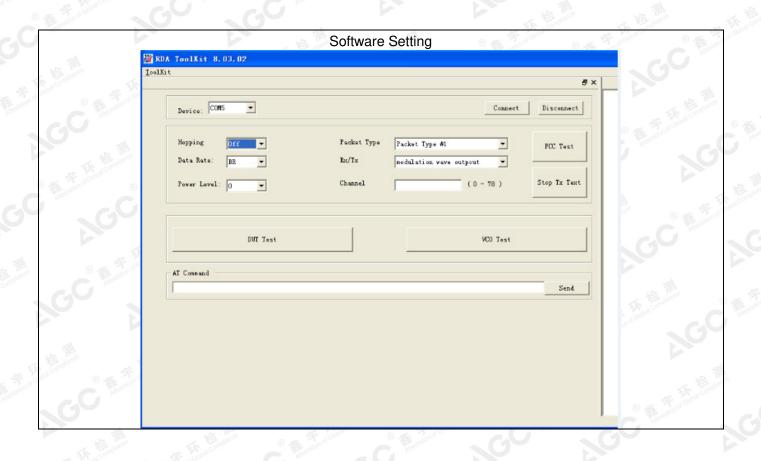
NO.	TEST MODE DESCRIPTION			
1 The Management of	Low channel GFSK			
© % 2 do 0	Middle channel GFSK			
3	High channel GFSK			
4	Low channel π /4-DQPSK			
5 T. Marine	Middle channel π /4-DQPSK			
6 od 6	High channel π /4-DQPSK			
7	Low channel 8DPSK			
8	Middle channel 8DPSK			
9 @ ## ## de	High channel 8DPSK			
10	BT Link with charging			
11	BT Link			

Note:

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







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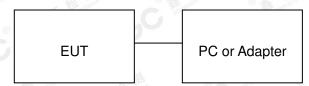


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5. SYSTEM TEST CONFIGURATION

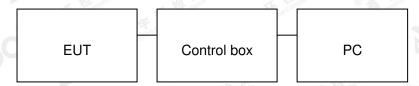
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



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

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1	SP330	WK	SP330	EUT	
2	Battery	WLY WLY	602040	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	RDA	N/A	A.E	
5	Adapter	N/A	MX12X8-0502000UU	A.E	
6	USB Cable	N/A	0.5m unshielded	Accessory	
7	USB Cable	N/A	1m unshielded	A.E	



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5.3. SUMMARY OF TEST RESULTS

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



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6. TEST FACILITY

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



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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	G Alle	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	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)	9				
0.490 ~ 1.705	30	24000/F(kHz)	技調				
1.705 ~ 30	30	30	Experimental Control C				
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 A Sanda Communication CO	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m				

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 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)

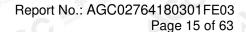
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The following table is the setting of spectrum analyzer and receiver.

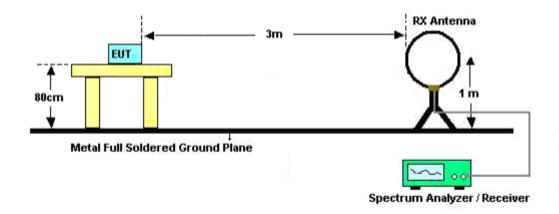
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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



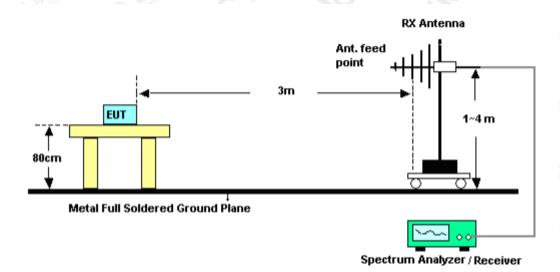


9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



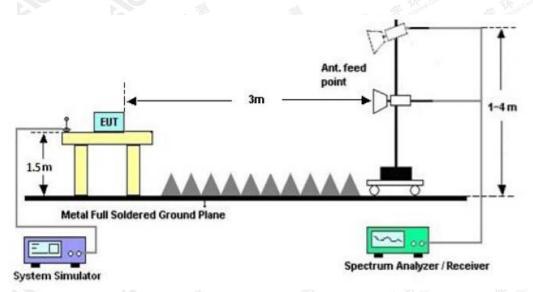
RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

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



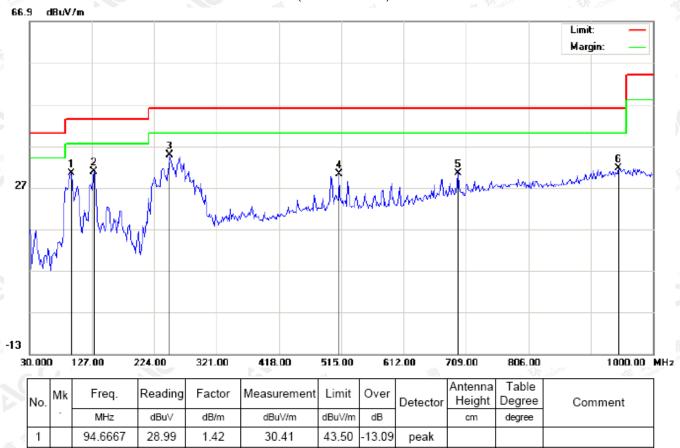
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
000	1		99.5167	24.44	10.00	34.44	43.50	-9.06	peak			
	2	*	262.8000	29.16	9.08	38.24	46.00	-7.76	peak			
	3		513.3833	8.72	21.49	30.21	46.00	-15.79	peak			
	4		696.0667	3.98	25.11	29.09	46.00	-16.91	peak			
	5		909.4667	1.77	28.87	30.64	46.00	-15.36	peak			
	6		954.7333	2.84	29.95	32.79	46.00	-13.21	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	
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree		
1		94.6667	28.99	1.42	30.41	43.50	-13.09	peak				
2		130.2333	19.75	11.13	30.88	43.50	-12.62	peak				
3	*	248.2500	21.16	13.73	34.89	46.00	-11.11	peak				-
4		511.7667	8.67	21.45	30.12	46.00	-15.88	peak				
5		696.0667	5.29	25.08	30.37	46.00	-15.63	peak				
6		946.6500	1.73	29.91	31.64	46.00	-14.36	peak				KON

RESULT: PASS

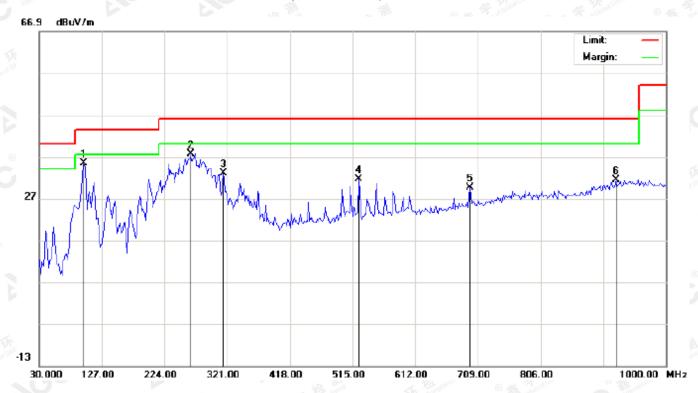
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



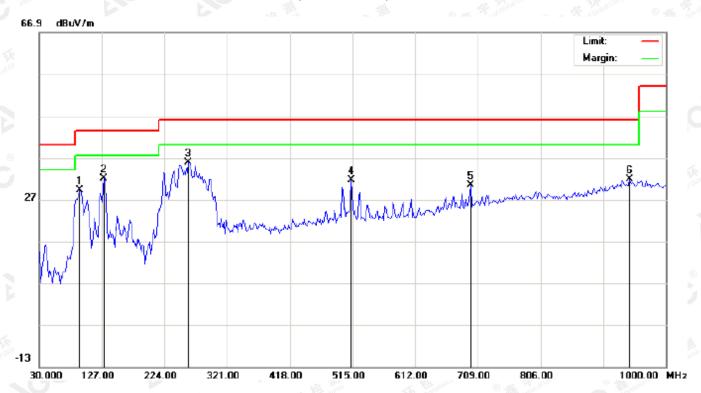
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
4		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree		
8	1	*	99.5167	25.49	10.00	35.49	43.50	-8.01	peak]
	2		264.4167	28.33	9.35	37.68	46.00	-8.32	peak				
	3		314.5333	16.62	16.38	33.00	46.00	-13.00	peak				1
	4		524.7000	9.75	21.80	31.55	46.00	-14.45	peak				1
ĺ	5		696.0667	4.46	25.11	29.57	46.00	-16.43	peak				O. Varia
	6		922.4000	2.17	29.23	31.40	46.00	-14.60	peak				1
- 1				1115%		17**		VC. 10	P 2001		F 1001	F 1102	_

RESULT: PASS



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



N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4		- [MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1			93.0500	26.43	2.79	29.22	43.50	-14.28	peak			
2	2		130.2333	20.89	11.13	32.02	43.50	-11.48	peak			
3	3	*	261.1833	21.63	14.24	35.87	46.00	-10.13	peak			
4	ı		513.3833	10.04	21.49	31.53	46.00	-14.47	peak			
5	;		697.6833	5.30	25.13	30.43	46.00	-15.57	peak			
6	;		943.4167	1.95	29.82	31.77	46.00	-14.23	peak			

RESULT: PASS

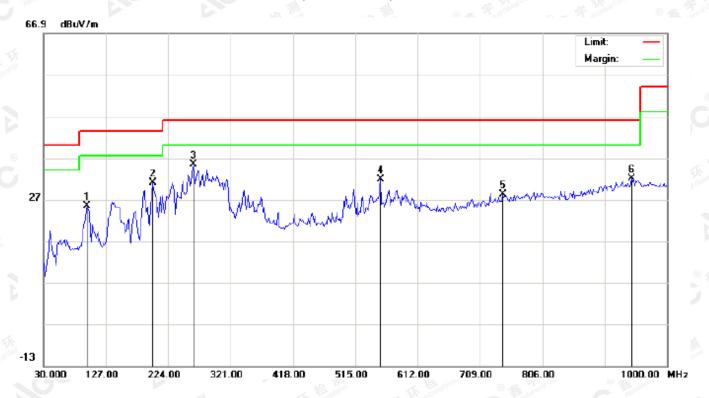
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



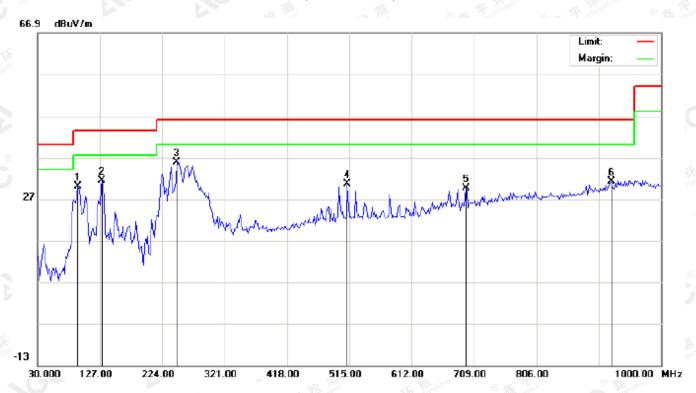
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
370	1		97.9000	17.10	8.38	25.48	43.50	-18.02	peak			
	2		199.7500	18.95	11.99	30.94	43.50	-12.56	peak			
	3	*	262.8000	26.28	9.08	35.36	46.00	-10.64	peak			
	4		553.8000	9.23	22.58	31.81	46.00	-14.19	peak			
	5		744.5667	1.79	26.48	28.27	46.00	-17.73	peak			
	6		945.0333	2.24	29.86	32.10	46.00	-13.90	peak			

RESULT: PASS



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



N	0.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ę		- [MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1			93.0500	27.17	2.79	29.96	43.50	-13.54	peak			
2	?		130.2333	20.37	11.13	31.50	43.50	-12.00	peak			
3	}	*	246.6333	22.33	13.57	35.90	46.00	-10.10	peak			
4			511.7667	9.08	21.45	30.53	46.00	-15.47	peak			
5	;		696.0667	4.57	25.08	29.65	46.00	-16.35	peak			
6	;		922.4000	1.89	29.23	31.12	46.00	-14.88	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.



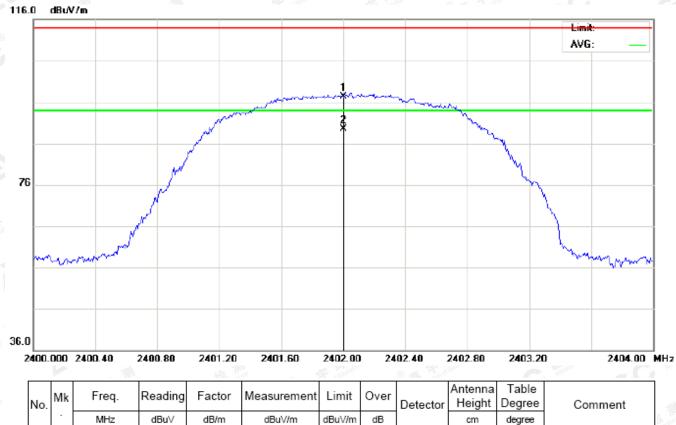
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK) FOR BR/EDR

For Fundamental

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



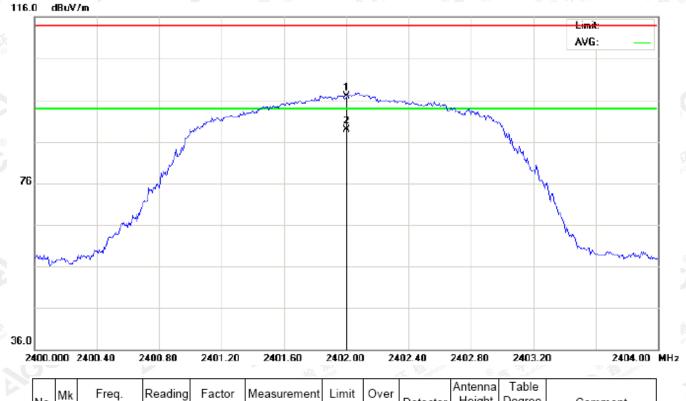
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2402.000	87.03	10.32	97.35	114.00	-16.65	peak			
2	*	2402.000	79.12	10.32	89.44	94.00	-4.56	AVG	100	47	

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
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	86.60	10.32	96.92	114.00	-17.08	peak			
2	*	2402.000	78.58	10.32	88.90	94.00	-5.10	AVG	100	18	

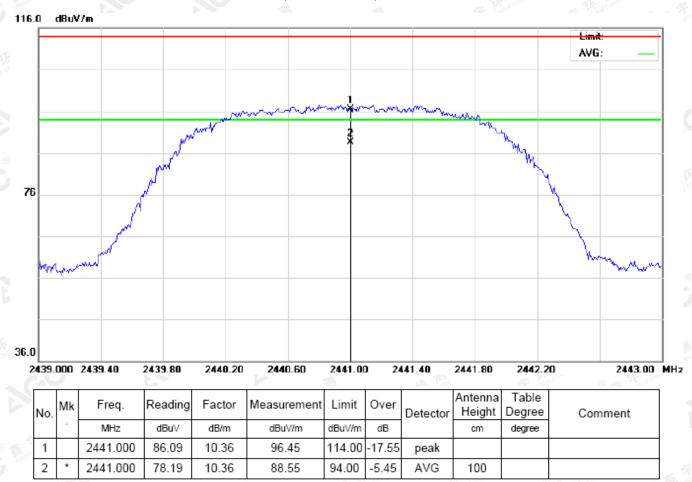
RESULT: PASS

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



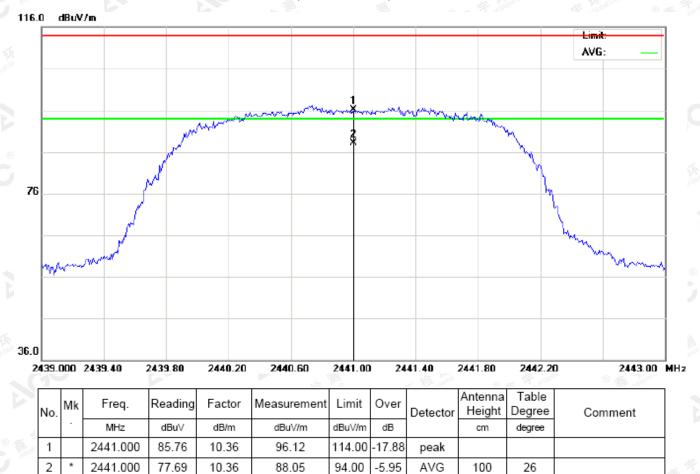
RESULT: PASS

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



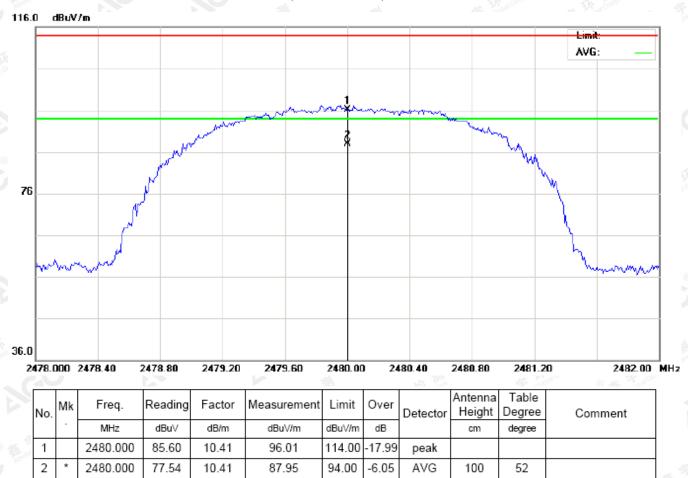
RESULT: PASS

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



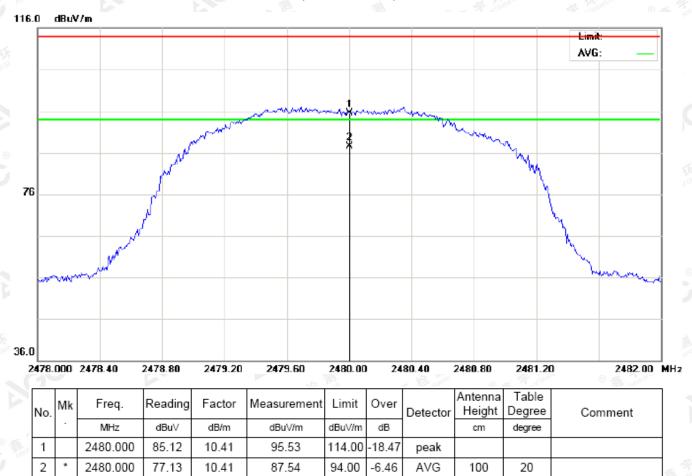
RESULT: PASS

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



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	87.03	10.32	97.35	114	-16.65	Horizontal
2402	86.60	10.32	96.92	114	-17.08	Vertical
2441	86.09	10.36	96.45	114	-17.55	Horizontal
2441	85.76	10.36	96.12	114	-17.88	Vertical
2480	85.60	10.41	96.01	114	-17.99	Horizontal
2480	85.12	10.41	95.53	114	-18.47	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.12	10.32	89.44	94	-4.56	Horizontal
2402	78.58	10.32	88.90	94	-5.10	Vertical
2441	78.19	10.36	88.55	94	-5.45	Horizontal
2441	77.69	10.36	88.05	94	-5.95	Vertical
2480	77.54	10.41	87.95	94	-6.05	Horizontal
2480	77.13	10.41	87.54	94	-6.46	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	86.62	10.32	96.94	114	-17.06	Horizontal
2402	86.11	10.32	96.43	114	-17.57	Vertical
2441	85.73	10.36	96.09	114	-17.91	Horizontal
2441	85.45	10.36	95.81	114	-18.19	Vertical
2480	85.12	10.41	95.53	114	-18.47	Horizontal
2480	84.70	10.41	95.11	114	-18.89	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.80	10.32	89.12	94	-4.88	Horizontal
2402	78.26	10.32	88.58	94	-5.42	Vertical
2441	77.77	10.36	88.13	94	-5.87	Horizontal
2441	77.39	10.36	87.75	94	-6.25	Vertical
2480	77.07	10.41	87.48	94	-6.52	Horizontal
2480	76.65	10.41	87.06	94	-6.94	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	86.25	10.32	96.57	114	-17.43	Horizontal
2402	85.69	10.32	96.01	114	-17.99	Vertical
2441	85.23	10.36	95.59	114	-18.41	Horizontal
2441	85.10	10.36	95.46	114	-18.54	Vertical
2480	84.63	10.41	95.04	114	-18.96	Horizontal
2480	84.36	10.41	94.77	114	-19.23	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.47	10.32	88.79	94	-5.21	Horizontal
2402	77.89	10.32	88.21	94	-5.79	Vertical
2441	77.30	10.36	87.66	94	-6.34	Horizontal
2441	76.94	10.36	87.30	94	-6.70	Vertical
2480	76.74	10.41	87.15	94	-6.85	Horizontal
2480	76.15	10.41	86.56	94	-7.44	Vertical

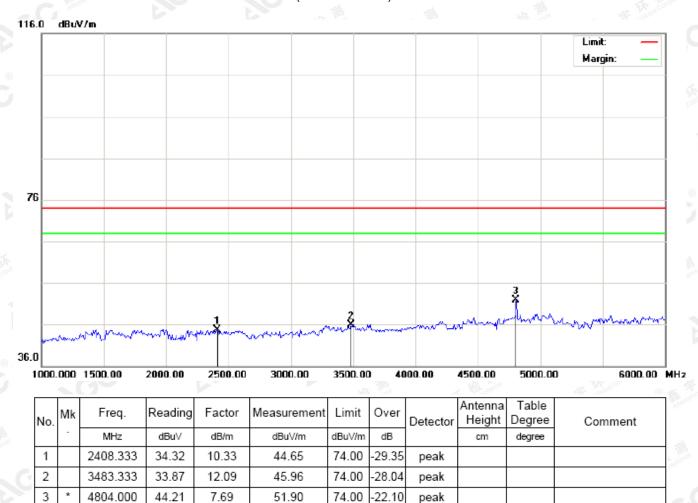


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(Worst modulation: GFSK) FOR BR/EDR

For Harmonics

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

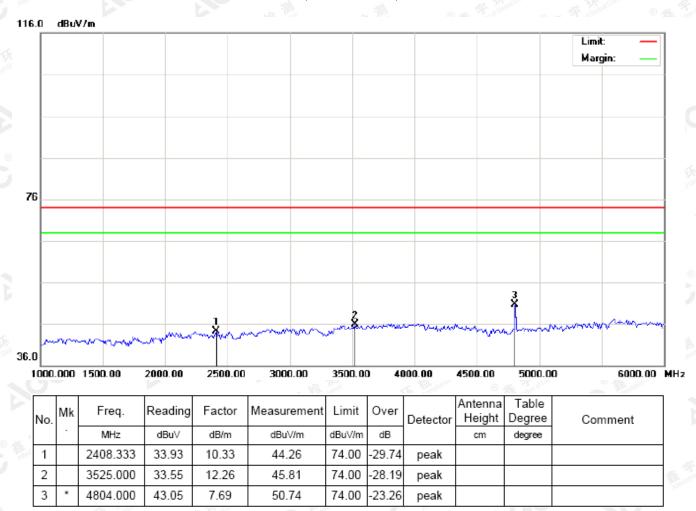


RESULT: PASS



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

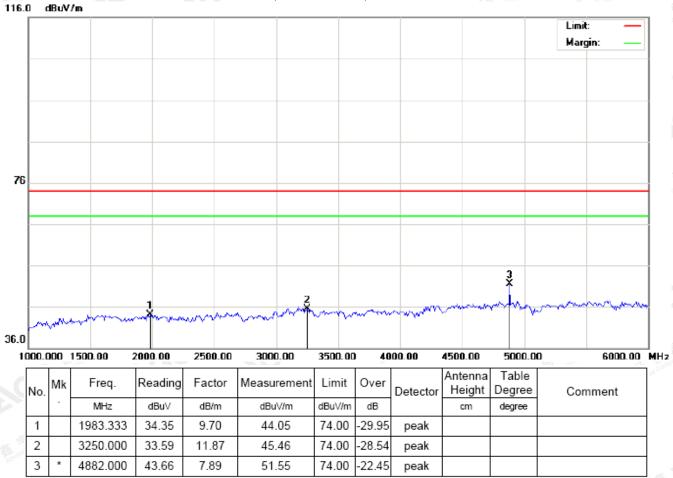


RESULT: PASS



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



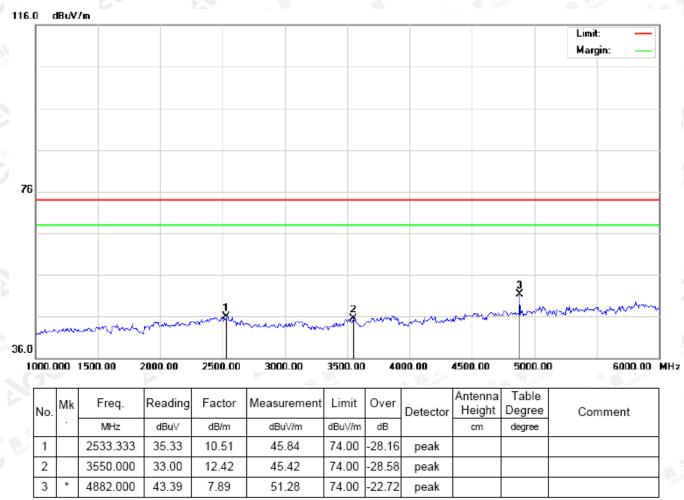
RESULT: PASS

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



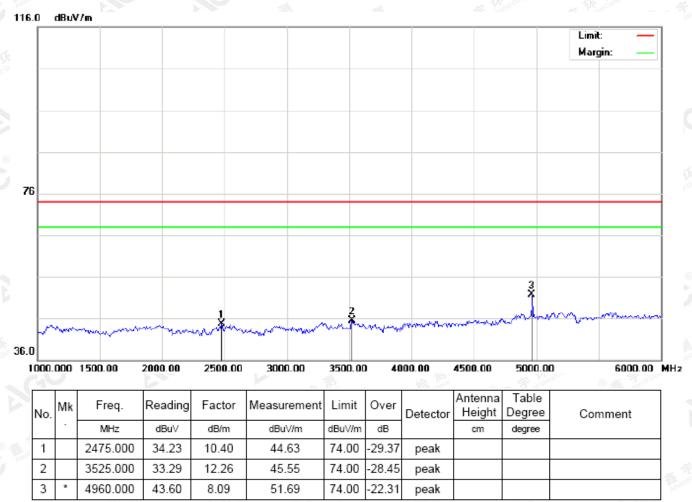
RESULT: PASS

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



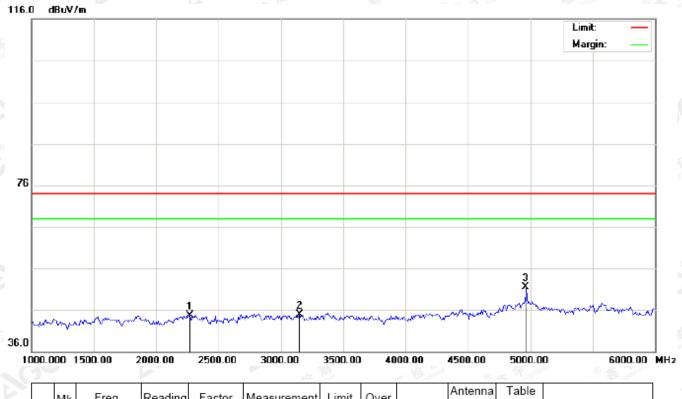
RESULT: PASS

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



1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
(3)	1		2266.667	34.51	10.17	44.68	74.00	-29.32	peak			
Γ	2		3150.000	33.14	11.78	44.92	74.00	-29.08	peak			
Γ	3	*	4960.000	43.41	8.09	51.50	74.00	-22.50	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

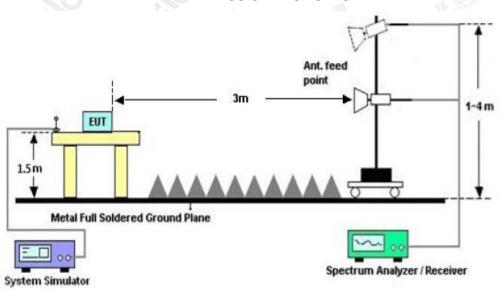
10.1. MEASUREMENT PROCEDURE

- 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.

9	Start frequenc	y(MHz)			Stop frequency(MH	łz)
Į,	2200	The plane	The Complines	® ## station	2405	1 GO
® Station of G	2478	(S) A	attestation of Glob	-,0	2500	

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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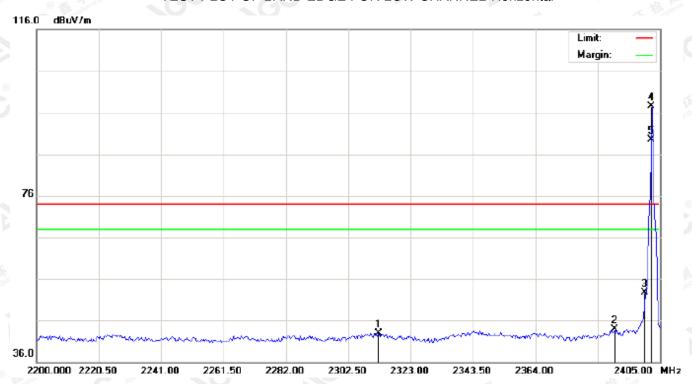
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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



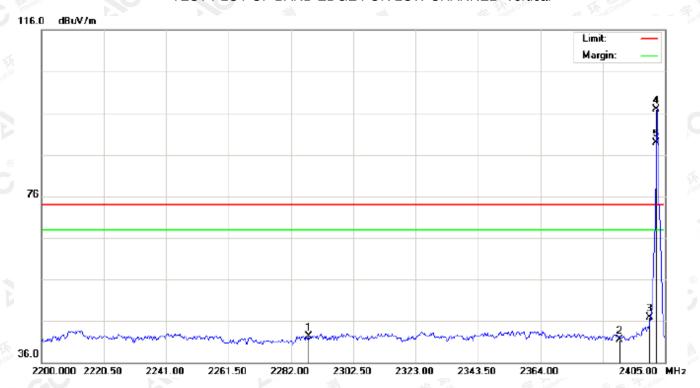
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
1		2312.408	32.65	10.22	42.87	74.00	-31.13	peak			
2		2390.000	33.50	10.31	43.81	74.00	-30.19	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	87.10	10.32	97.42	74.00	23.42	peak			
5	Х	2402.000	79.09	10.32	89.41	74.00	15.41	AVG	100	50	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL - Vertical



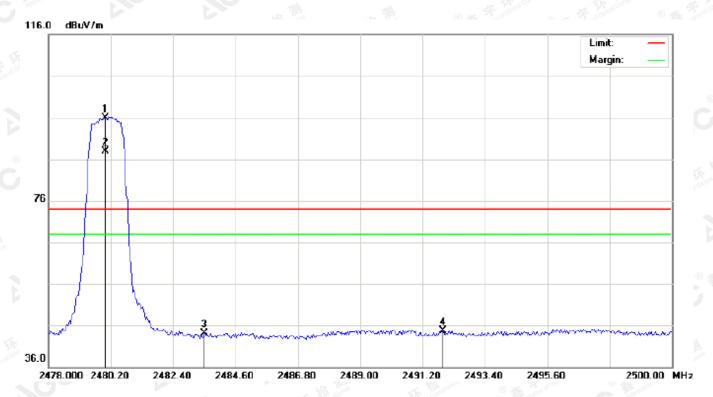
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
e	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2287.808	32.13	10.20	42.33	74.00	-31.67	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	36.56	10.32	46.88	74.00	-27.12	peak			
4	*	2402.000	86.57	10.32	96.89	74.00	22.89	peak			
5	Х	2402.000	78.59	10.32	88.91	74.00	14.91	AVG	100	25	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



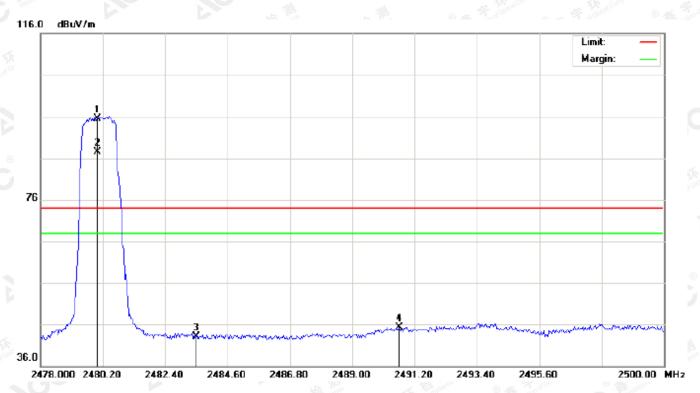
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
i	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	85.55	10.41	95.96	74.00	21.96	peak			
2	Х	2480.000	77.50	10.41	87.91	74.00	13.91	AVG	100	48	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2491.933	34.37	10.42	44.79	74.00	-29.21	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
ĝ		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
312	1	*	2480.000	85.10	10.41	95.51	74.00	21.51	peak			
	2	Х	2480.000	77.11	10.41	87.52	74.00	13.52	AVG	100	19	
	3		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
	4		2490.650	34.87	10.42	45.29	74.00	-28.71	peak			

RESULT: PASS

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

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

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

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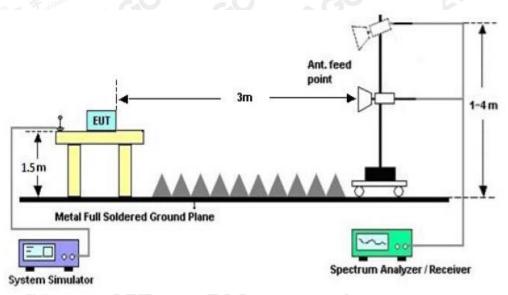
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

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

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

BLUET	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Test Data (MHz)						
		Result						
And Committee Co	Low Channel	0.911	1.066	PASS				
N/A	Middle Channel	0.908	1.071	PASS				
- FIII	High Channel	0.921	1.068	PASS				

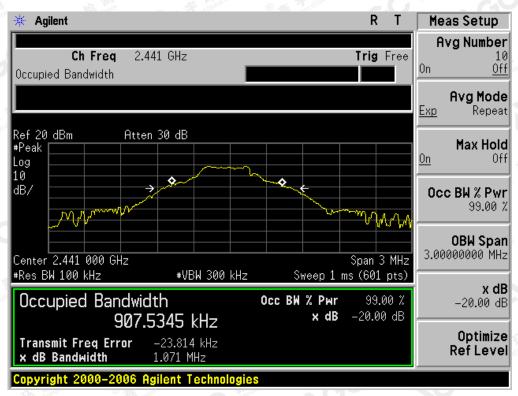
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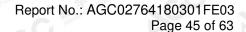
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

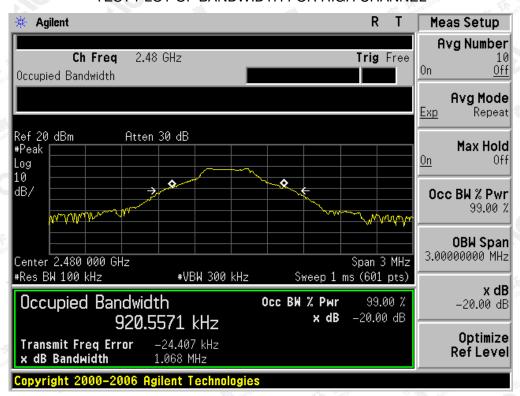


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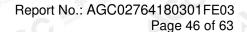




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



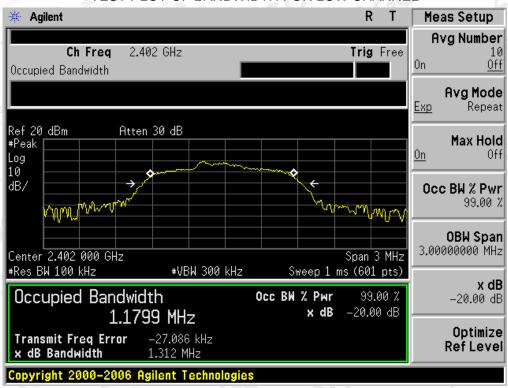
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BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT	. 100
		Measure	ement Result	
Applicable Limits		Doorth		
		99%OBW (MHz)	-20dB BW(MHz)	Result
The plants of the plants	Low Channel	1.180	1.312	PASS
N/A	Middle Channel	1.178	1.309	PASS
AGO M	High Channel	1.184	1.321	PASS

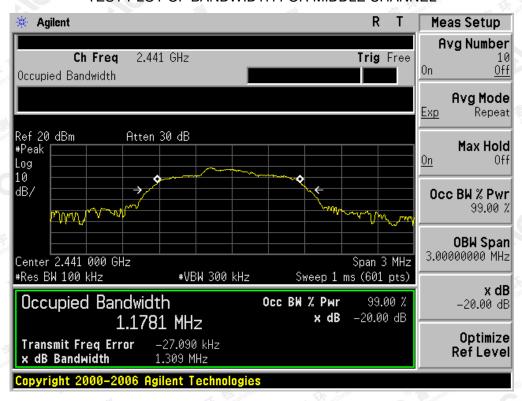
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



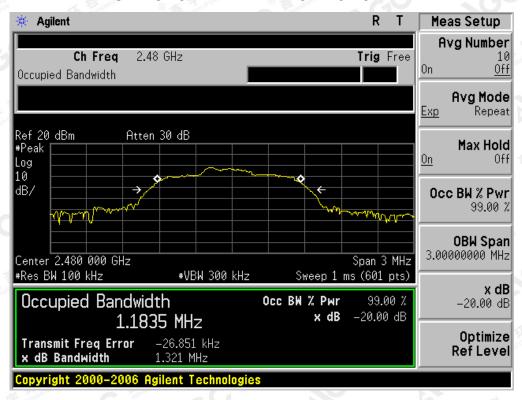
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



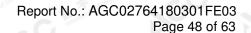
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



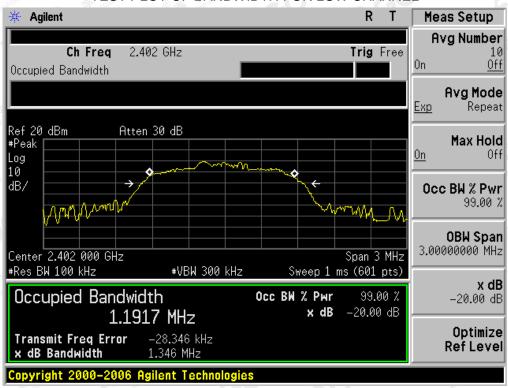
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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





BLUETO	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT	. 30 10"
		Measure	ement Result	
Applicable Limits		D II		
		99%OBW (MHz)	-20dB BW(MHz)	Result
The plants of th	Low Channel	1.192	1.346	PASS
N/A	Middle Channel	1.195	1.331	PASS
CO TO	High Channel	1.194	1.341	PASS

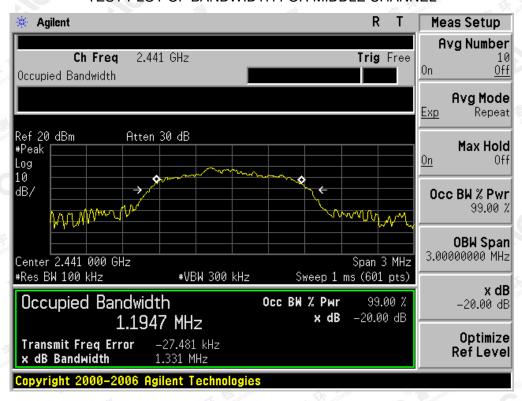
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



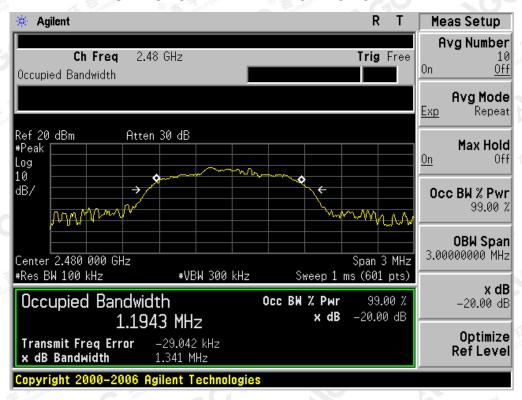
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

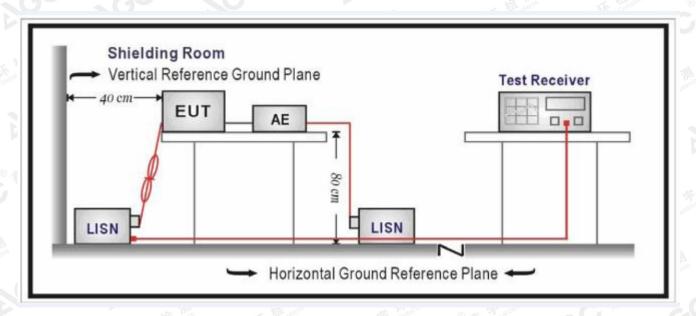
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

Note:

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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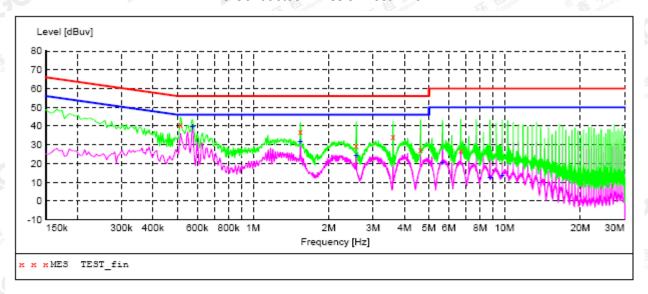


12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2018/3/20 Frequenc MH	-	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.51400	0 40.90	11.4	56	15.1	QP	L1	FLO
1.54200	0 37.20	11.3	56	18.8	QP	L1	FLO
2.57000	0 29.60	11.4	56	26.4	QP	L1	FLO
3.60200	0 34.10	11.4	56	21.9	QP	L1	FLO
4.63000	0 27.60	11.4	56	28.4	QP	L1	FLO
6.69000	0 26.60	11.2	60	33.4	QP	L1	FLO

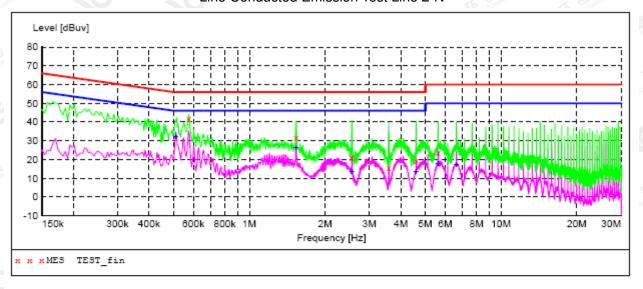
MEASUREMENT RESULT: "TEST fin2"

2018/3/20 9:35 Frequency MHz		Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.574000	39.40	11.4	46	6.6	AV	L1	FLO
1.542000	31.60	11.3	46	14.4	AV	L1	FLO
2.570000	24.00	11.4	46	22.0	AV	L1	FLO
5.658000	20.30	11.3	50	29.7	AV	L1	FLO
8.746000	12.60	11.3	50	37.4	AV	L1	FLO
9.774000	13.50	11.4	50	36.5	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



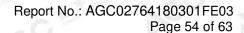
MEASUREMENT RESULT: "TEST fin"

2018/3/20 9 Frequency MHz	Level	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.574000	41.80	11.4	56	14.2	QP	N	FLO
1.534000	31.40	11.3	56	24.6	QP	N	FLO
2.554000	21.00	11.4	56	35.0	QP	N	FLO
3.578000	15.60	11.4	56	40.4	QP	N	FLO
4.598000	19.20	11.4	56	36.8	QP	N	FLO
5.622000	23.60	11.3	60	36.4	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

2018/3/20 Frequer N		Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.5100	000	32.10	11.4	46	13.9	AV	N	FLO
1.5340	000	26.10	11.3	46	19.9	AV	N	FLO
2.5540	000	13.70	11.4	46	32.3	AV	N	FLO
4.5980	000	13.60	11.4	46	32.4	AV	N	FLO
5.6220	000	17.60	11.3	50	32.4	AV	N	FLO
6.6460	000	17.10	11.2	50	32.9	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

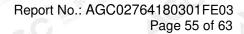
FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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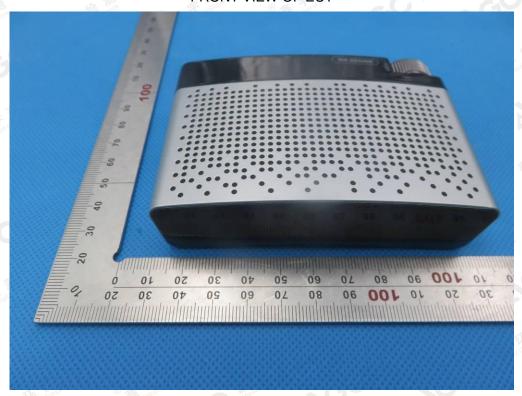
Attestation of Global Compliance



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT

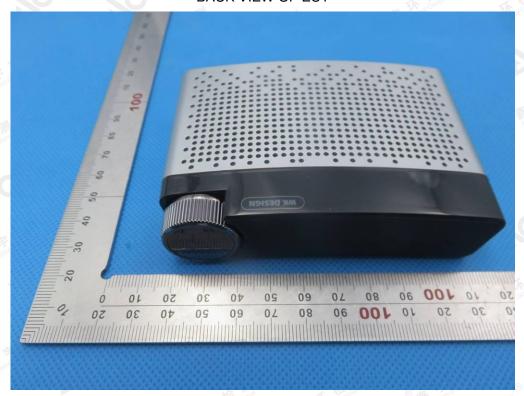


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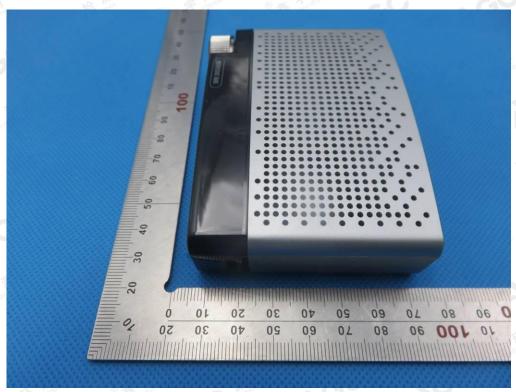
Attestation of Global Compliance



BACK VIEW OF EUT



LEFT VIEW OF EUT

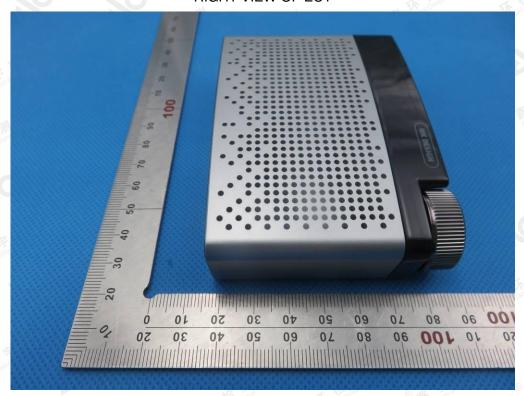


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Attestation of Global Compliance



RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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Attestation of Global Compliance



OPEN VIEW OF EUT



VIEW OF BATTERY

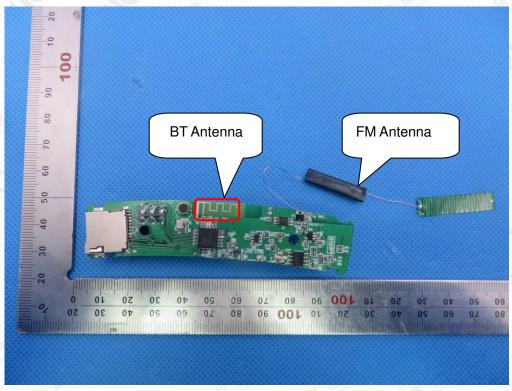


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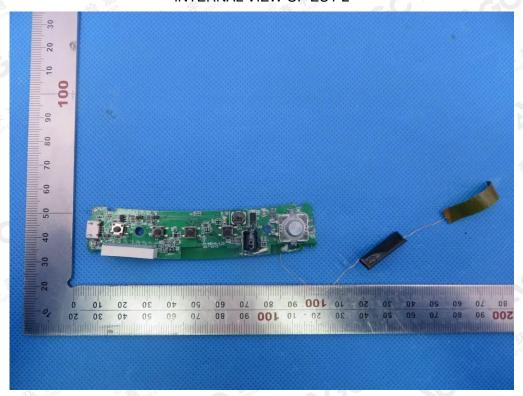
Attestation of Global Compliance



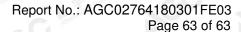
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

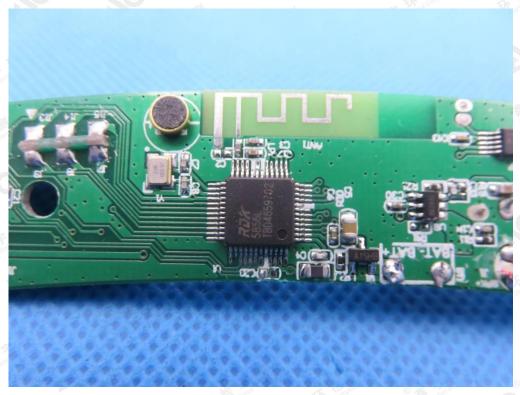


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INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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