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FCC Test Report

Report No.: AGC02457180304FE03

FCC ID	: 2AOKX-SS-NB012B
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: VOICE-ASSISANT WIRELESS NECKBAND HEADSET
BRAND NAME	: N/A
MODEL NAME	: See Page 4
CLIENT	: Shenzhen Swetz Sound Technology Co., Limited
DATE OF ISSUE	: Apr. 08, 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		Apr. 08, 2018	Valid	Initial release

Report Revise Record

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Swetz Sound Technology Co., Limited		
Address	No.18 Xiantian Road, Longgang Central Shenzhen China		
Manufacturer	Shenzhen Swetz Sound Technology Co., Limited		
Address	No.18 Xiantian Road, Longgang Central Shenzhen China		
Product Designation	VOICE-ASSISANT WIRELESS NECKBAND HEADSET		
Brand Name	N/A		
Test Model	SS-NB012B		
Series Model	VA-NBH-6/1152, BEB011PX-BL, BEB011-BL		
Difference description	All the same except for the appearance color.		
Date of test	Mar. 13, 2018 to Mar. 22, 2018		
Deviation	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.

Jonhen Wand

Tested By

Jonhen Wang(Wang Yonghuan) Mar. 22, 2018

owers a

Reviewed By

Forrest Lei(Lei Yonggang)

Apr. 08, 2018

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following	
--	--

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.09dBm(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 for BR/EDR
Hardware Version	V1.2
Software Version	V1.4
Antenna Designation	PCB Antenna
Antenna Gain	-0.5dBi
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
The suite of the s	0	2402MHz
NOU		2403MHz
The the state	The Handard C. Francisco C.	
C A Resolution of Goldan CC C A	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
The Companies O The State of Contract	C Barriston - C Barriston	
BCC in PC	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 = \pm 3.2 dB

- Uncertainty of Radiated Emission below 1GHz, $Uc = \pm 3.9 \text{ dB}$

- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

NO.		TEST MOD	E DESCRIPTIO	N	
· · · · · · · · · · · · · · · · · · ·	and Clobal C	Low ch	nannel GFSK		11-
2 2	S	Middle c	channel GFSK	- Allance	K Completion
3		High ch	nannel GFSK	B Thestation of	Glon.
4 8	C A Jona Condi	Low chanr	nel π /4-DQPSK	GU	
S	40 × 60	Middle char	nnel π /4-DQPSł	<	下位
6		High chanı	nel π /4-DQPSK	Fin of Global Comme	C The station of Global
7	Al marce (To d Gonald	Low cha	annel 8DPSK		
8		Middle cł	hannel 8DPSK		IIII:
9		High cha	annel 8DPSK	T	hal compliance
10	10 m	BT Link	with charging	B Allestation of C	C Statest
11 Strand Contraction	Franciscon a C	descelon CB	3T Link	90	

4. DESCRIPTION OF TEST MODES

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	the monance	the plance
BK3256 RF Test -	¥1.3			
文件(E) 帮助(H)				
RF测试				_
	通讯端口 COM3	Close		
_ RF测试	┌软件测试			Xopa
DUT测试模式		^{RX} 数据类型 Pn9 ▼ 〕 opping 包类型 DH1 ▼	配置	
init finished Bluetooth controller IA	enabled: fc:58:fa:45:42:	14		
app_wave_file_play_st [enable_complete 0 00 app_wave_file_play_st [CMD] singlewave test app_bt_enable_dut_mod OK] op() mode enable			
RF Reg: 0x00910000: 0 RF Reg: 0x00910008: 4 Bluetooth controller [disable_complete 0 0 Enter Dut test mode s	182e24a disabled: fc:58:fa:45:42 0] uccess!		E	0
LUMD] test mode confi EUT TEST MODE START		ver level: 1, p_mode: 1, hopping: 0.		-

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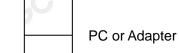
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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT



Note: Owing to the EUT has own battery, 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 Th	VOICE-ASSISANT WIRELESS NECKBAND HEADSET	Swetz Sound	SS-NB012B	EUT
2	Battery	JYZ	420930	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

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5.3. SUMMARY OF TEST RESULTS

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

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6. TEST FACILITY

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

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due		
TEST RECEIVER	EST RECEIVER R&S		101206	Jun.20, 2017	Jun.19, 2018		
LISN	LISN R&S		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 Alle	Mar. 01, 2018	Feb. 28, 2020
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 6	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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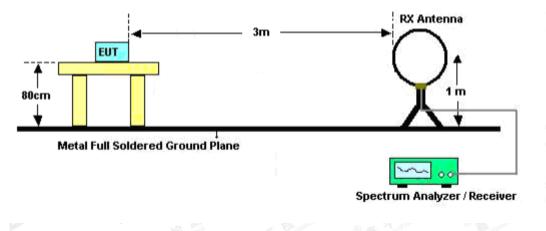




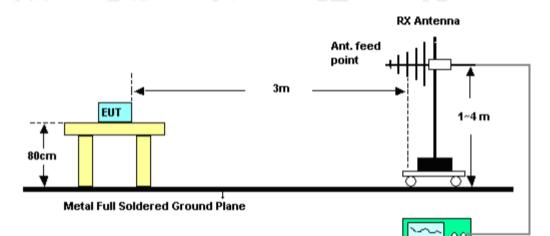
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9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



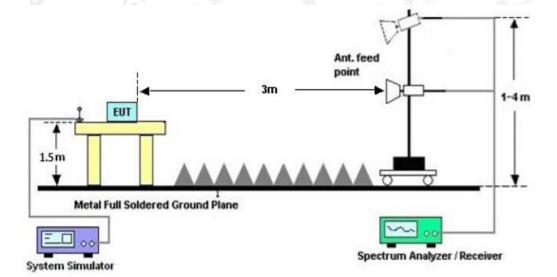
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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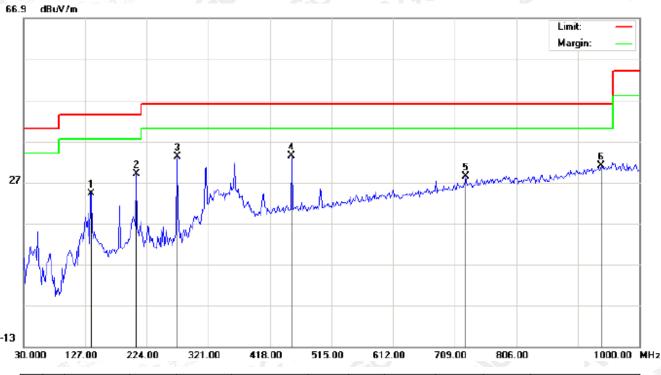
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9.4. TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

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

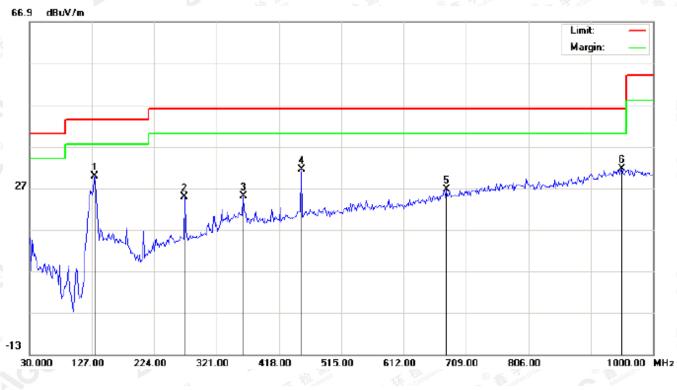


No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∨	dB/m	dBuV/m	dBu∀/m	dB	1	cm	degree	
1		136.7000	10.64	13.66	24.30	43.50	-19.20	peak			
2		207.8333	17.87	11.20	29.07	43.50	-14.43	peak			
3		272.5000	22.57	10.73	33.30	46.00	-12.70	peak			
4	*	451.9500	12.79	20.61	33.40	46.00	-12.60	peak			
5		726.7833	2.41	25.98	28.39	46.00	-17.61	peak			
6		940.1833	1.36	29.73	31.09	46.00	-14.91	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	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	131.8500	18.09	11.80	29.89	43.50	-13.61	peak			
2		270.8833	10.35	14.53	24.88	46.00	-21.12	peak			
3		363.0333	6.16	18.83	24.99	46.00	-21.01	peak			
4		453.5667	10.77	20.63	31.40	46.00	-14.60	peak			
5		678.2833	1.99	24.61	26.60	46.00	-19.40	peak			
6		951.5000	1.61	29.99	31.60	46.00	-14.40	peak			

RESULT: PASS

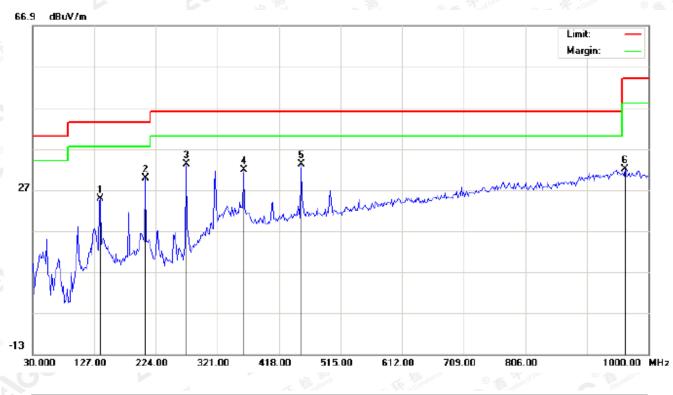
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

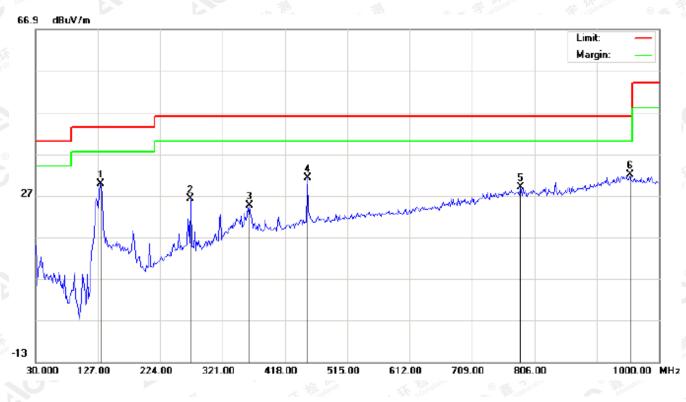
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
° [1		136.7000	11.19	13.66	24.85	43.50	-18.65	peak			
	2		207.8333	18.57	11.20	29.77	43.50	-13.73	peak			
	3	*	272.5000	22.48	10.73	33.21	46.00	-12.79	peak			
	4		363.0333	12.97	18.83	31.80	46.00	-14.20	peak			
	5		453.5667	12.48	20.63	33.11	46.00	-12.89	peak			
	6		962.8167	2.05	29.88	31.93	54.00	-22.07	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
5		•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
9V	1	*	131.8500	18.10	11.80	29.90	43.50	-13.60	peak			
	2		270.8833	11.62	14.53	26.15	46.00	-19.85	peak			
	3		363.0333	5.79	18.83	24.62	46.00	-21.38	peak			
	4		453.5667	10.64	20.63	31.27	46.00	-14.73	peak			
	5		784.9833	1.85	27.11	28.96	46.00	-17.04	peak			
1	6		954.7333	2.09	29.95	32.04	46.00	-13.96	peak			

RESULT: PASS

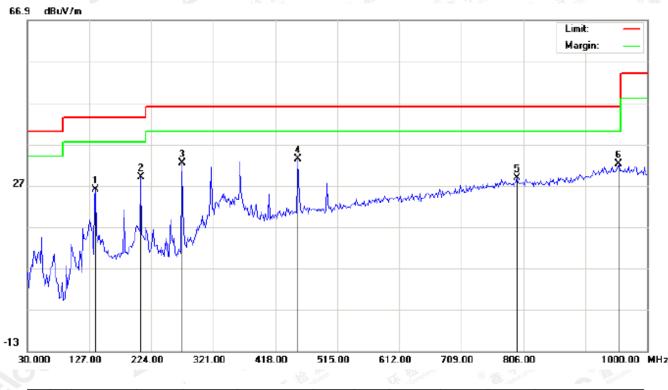
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

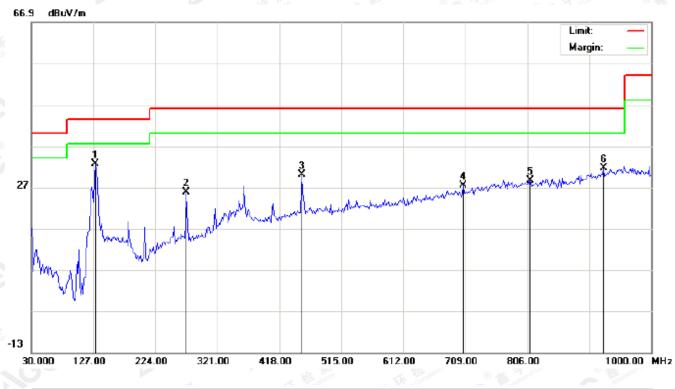
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
2	1		136.7000	12.42	13.66	26.08	43.50	-17.42	peak			
	2		207.8333	17.73	11.20	28.93	43.50	-14.57	peak			
	3		272.5000	21.75	10.73	32.48	46.00	-13.52	peak			
	4	*	453.5667	12.82	20.63	33.45	46.00	-12.55	peak			
	5		796.3000	1.45	27.27	28.72	46.00	-17.28	peak			
	6		954.7333	2.19	29.95	32.14	46.00	-13.86	peak			

RESULT: PASS

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
10	1	*	130.2333	21.55	11.13	32.68	43.50	-10.82	peak			
	2		272.5000	11.20	14.58	25.78	46.00	-20.22	peak			
	3		453.5667	9.40	20.63	30.03	46.00	-15.97	peak			
	4		705.7667	2.01	25.36	27.37	46.00	-18.63	peak			
	5		810.8500	1.25	27.32	28.57	46.00	-17.43	peak			
1	6		925.6333	2.23	29.32	31.55	46.00	-14.45	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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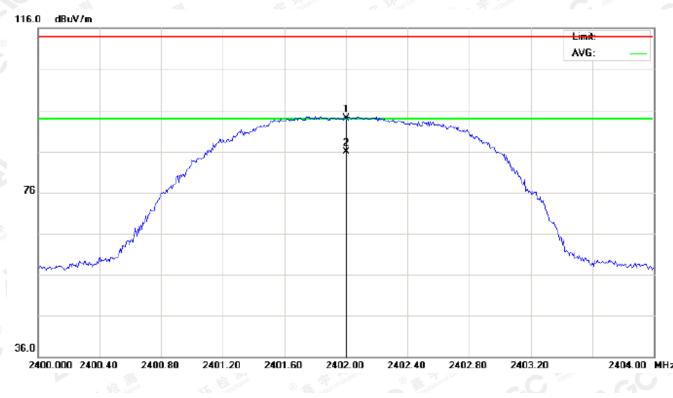
RADIATED EMISSION ABOVE 1GHz

(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	dBu\//m	dBuV/m	dB		cm	degree	
1		2402.000	83.79	10.32	94.11	114.00	-19.89	peak			
2	*	2402.000	75.54	10.32	85.86	94.00	-8.14	AVG	100	138	

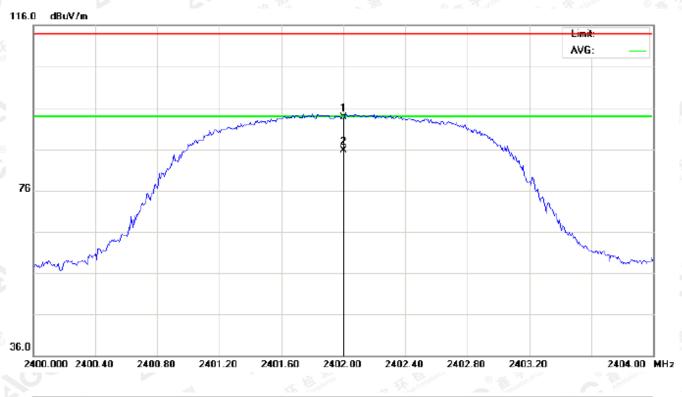
RESULT: PASS

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

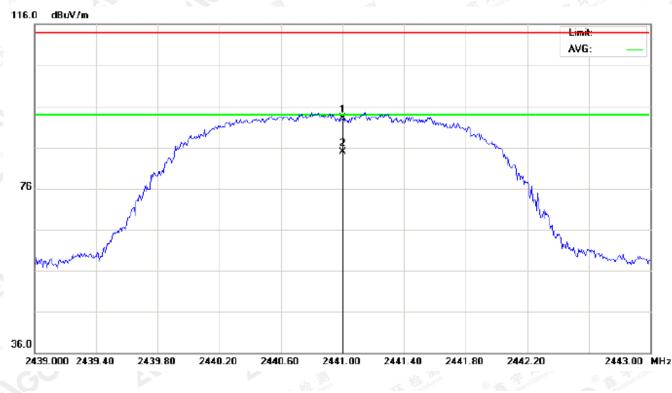
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBu∨/m	dBu∀/m	dB		cm	degree	
1		2402.000	83.47	10.32	93.79	114.00	-20.21	peak			
2	*	2402.000	75.32	10.32	85.64	94.00	-8.36	AVG	100	221	

RESULT: PASS

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

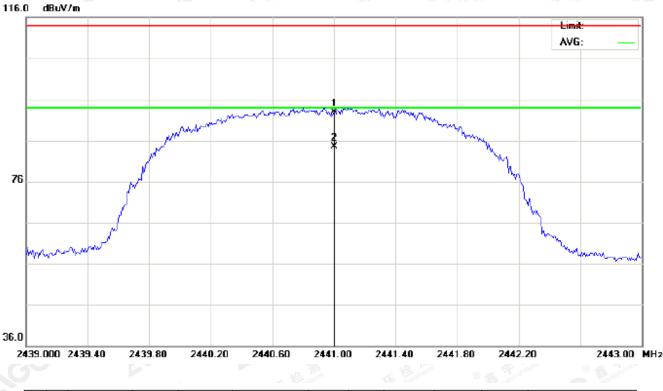
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
à	1		2441.000	82.73	10.36	93.09	114.00	-20.91	peak			
	2	*	2441.000	74.51	10.36	84.87	94.00	-9.13	AVG	100	141	

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
8		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
	1		2441.000	82.45	10.36	92.81	114.00	-21.19	peak			
	2	*	2441.000	74.17	10.36	84.53	94.00	-9.47	AVG	100	244	

RESULT: PASS

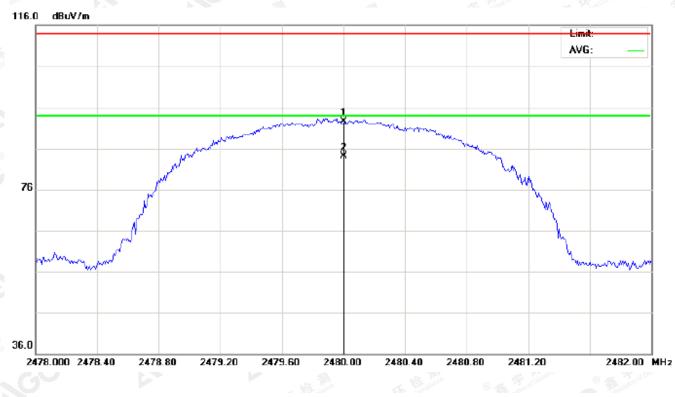
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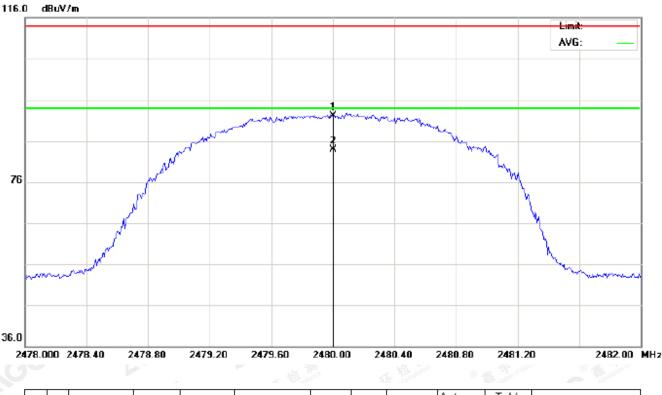
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2480.000	82.17	10.41	92.58	114.00	-21.42	peak			
2	*	2480.000	73.65	10.41	84.06	94.00	-9.94	AVG	100	166	

RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2480.000	81.72	10.41	92.13	114.00	-21.87	peak			
2	*	2480.000	73.50	10.41	83.91	94.00	-10.09	AVG	100	215	

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	83.79	10.32	94.11	114	-19.89	Horizontal
2402	83.47	10.32	93.79	114	-20.21	Vertical
2441	82.73	10.36	93.09	114 🐋	-20.91	Horizontal
2441	82.45	10.36	92.81	114	-21.19	Vertical
2480	82.17	10.41	92.58	114	-21.42	Horizontal
2480	81.72	10.41	92.13	114	-21.87	Vertical
						and the second se

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.54	10.32	85.86	94	-8.14	Horizontal
2402	75.32	10.32	85.64	94	-8.36	Vertical
2441	74.51	10.36	84.87	94	-9.13	Horizontal
2441	74.17	10.36	84.53	94	-9.47	Vertical
2480	73.65	10.41	84.06	94	-9.94	Horizontal
2480	73.50	10.41	83.91	94	-10.09	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	83.37	10.32	93.69	114	-20.31	Horizontal
2402	83.14	10.32	93.46	114	-20.54	Vertical
2441	82.32	10.36	92.68	114	-21.32	Horizontal
2441	81.96	10.36	92.32	114	-21.68	Vertical
2480	81.85	10.41	92.26	114	-21.74	Horizontal
2480	81.34	10.41	91.75	114	-22.25	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.12	10.32	85.44	94	-8.56	Horizontal
2402	74.96	10.32	85.28	94	-8.72	Vertical
2441	74.01	10.36	84.37	94	-9.63	Horizontal
2441	73.70	10.36	84.06	94	-9.94	Vertical
2480	73.34	10.41	83.75	94	-10.25	Horizontal
2480	73.18	10.41	83.59	94	-10.41	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	82.96	10.32	93.28	114	-20.72	Horizontal
2402	82.72	10.32	93.04	114	-20.96	Vertical
2441	81.95	10.36	92.31	114	-21.69	Horizontal
2441	81.74	10.36	92.10	114	-21.90	Vertical
2480	81.36	10.41	91.77	114	-22.23	Horizontal
2480	80.97	10.41	91.38	114	-22.62	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.66	10.32	84.98	94	-9.02	Horizontal
2402	74.60	10.32	84.92	94	-9.08	Vertical
2441	73.63	10.36	83.99	94	-10.01	Horizontal
2441	73.21	10.36	83.57	94	-10.43	Vertical
2480	72.89	10.41	83.30	94	-10.70	Horizontal
2480	72.79	10.41	83.20	94	-10.80	Vertical

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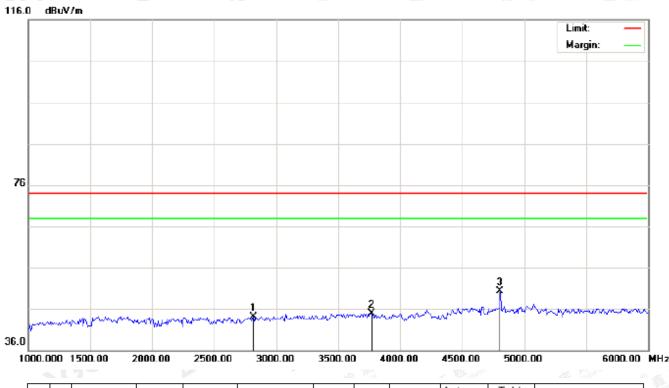
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(Worst modulation: GFSK)

FOR BR/EDR

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		2816.667	32.88	11.20	44.08	74.00	-29.92	peak			
2		3766.667	31.09	13.75	44.84	74.00	-29.16	peak			
3	*	4804.000	42.71	7.69	50.40	74.00	-23.60	peak			

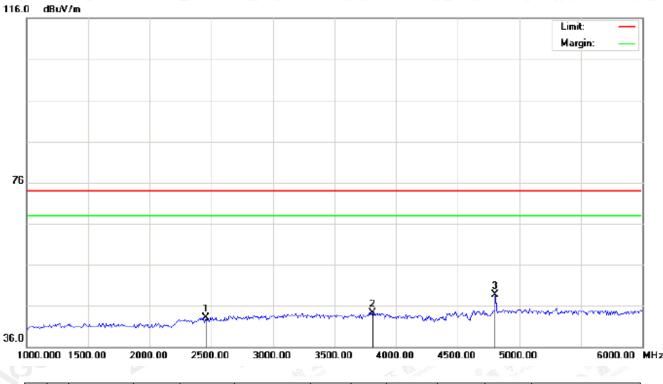
RESULT: PASS

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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	dBuV/m	dBuV/m	dB		cm	degree	
ð	1		2458.333	32.79	10.38	43.17	74.00	-30.83	peak			
	2		3808.333	30.37	14.01	44.38	74.00	-29.62	peak			
	3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

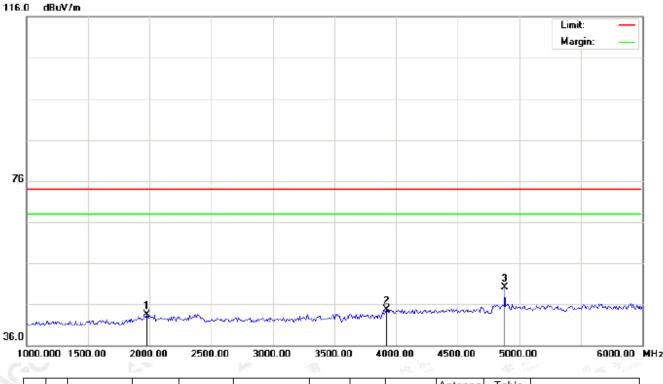
RESULT: PASS

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

N	0.	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	I		1975.000	33.89	9.62	43.51	74.00	-30.49	peak			
2	2		3925.000	30.02	14.73	44.75	74.00	-29.25	peak			
3	3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak			

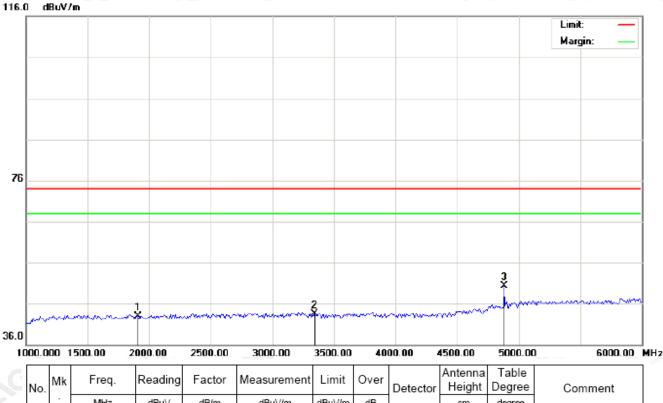
RESULT: PASS

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

C	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		1908.333	34.01	8.92	42.93	74.00	-31.07	peak			
3 Latic	2		3341.667	31.53	11.96	43.49	74.00	-30.51	peak			
	3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

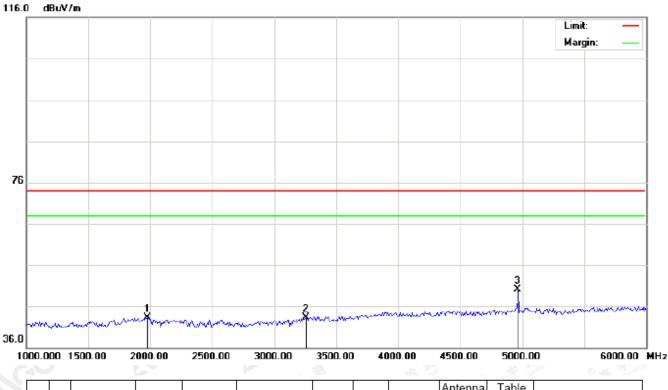
RESULT: PASS

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

No.	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		1975.000	33.66	9.62	43.28	74.00	-30.72	peak			
2		3258.333	31.41	11.88	43.29	74.00	-30.71	peak			
3	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

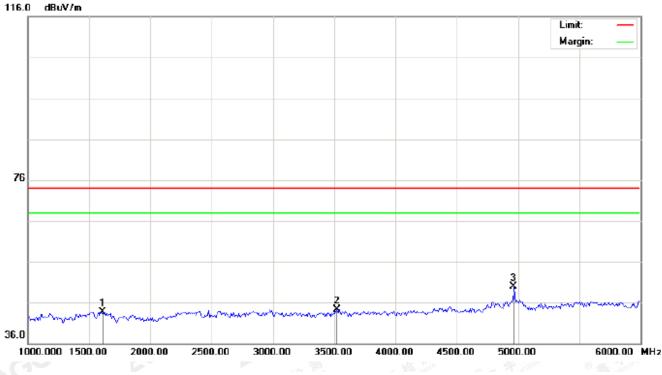
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∨	dB/m	dBu\//m	dBu∨/m	dB		cm	degree	
1		1608.333	37.88	5.76	43.64	74.00	-30.36	peak			
2		3525.000	32.02	12.26	44.28	74.00	-29.72	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

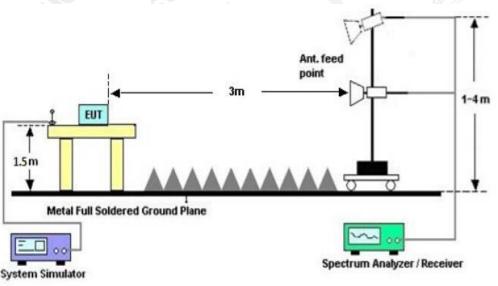
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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(MH	z)	Stop frequency(MHz)				
The second	2200	South Contraction	not C The station	2405	SCC "		
C Treasulton of Circles	2478	C Allestation of Gird	GO	2500			

10.2 TEST SETUP



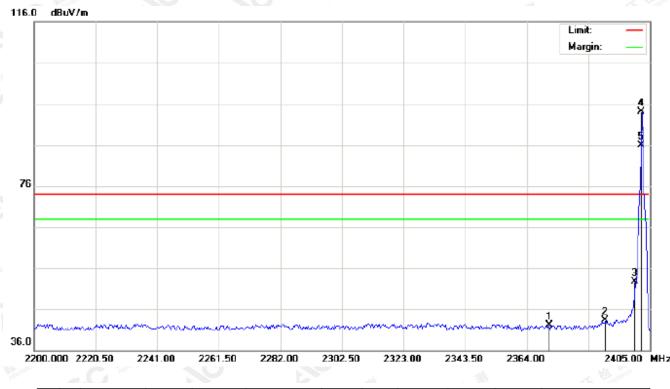
RADIATED EMISSION TEST SETUP





10.3 RADIATED TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

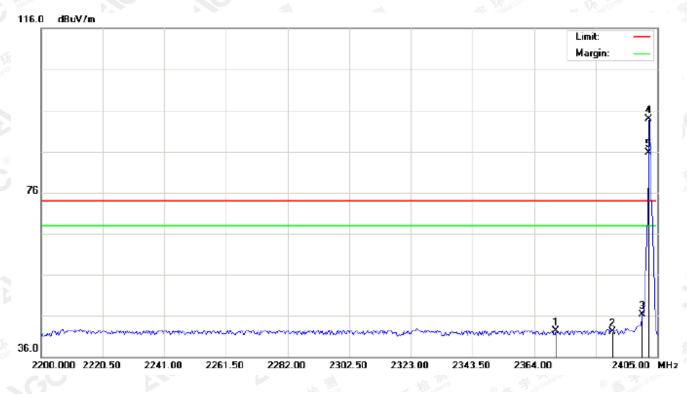


	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		2371.517	31.84	10.29	42.13	74.00	-31.87	peak			
	2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
	3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
	4	*	2402.000	83.72	10.32	94.04	74.00	20.04	peak			
ŝ.	5	Х	2402.000	75.59	10.32	85.91	74.00	11.91	AVG	100	147	





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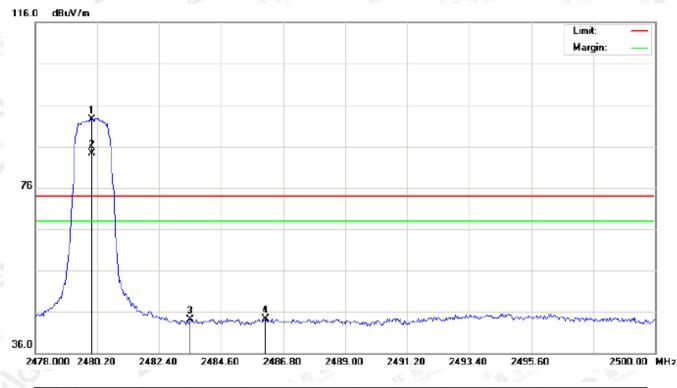
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2371.175	32.08	10.29	42.37	74.00	-31.63	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	83.59	10.32	93.91	74.00	19.91	peak			
5	Х	2402.000	75.30	10.32	85.62	74.00	11.62	AVG	100	246	





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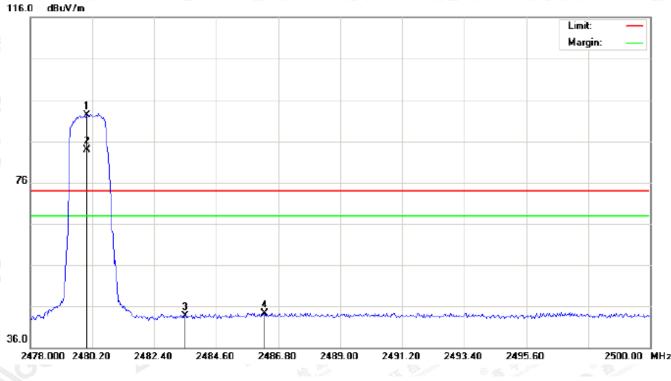
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă.		•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
8	1	*	2480.000	82.05	10.41	92.46	74.00	18.46	peak			
	2	Х	2480.000	73.97	10.41	84.38	74.00	10.38	AVG	100	153	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2486.177	33.84	10.41	44.25	74.00	-29.75	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		Comment
È	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	2480.000	81.82	10.41	92.23	74.00	18.23	peak			
2	Х	2480.000	73.55	10.41	83.96	74.00	9.96	AVG	100	231	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2486.323	33.94	10.41	44.35	74.00	-29.65	peak			

RESULT: PASS

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

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

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



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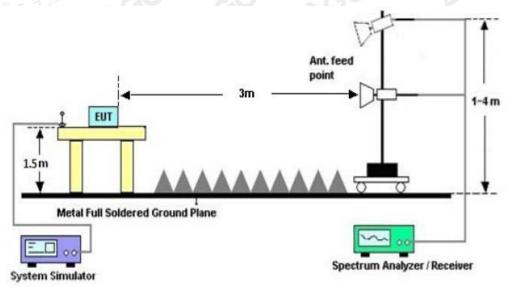
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW \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

FOR BR/EDR

BLUET	OOTH 1MBPS LIN	ITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Test Data (MHz))	Decult				
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The Constant of American	Low Channel	0.942	1.097	PASS				
N/A	Middle Channel	0.955	1.103	PASS				
	High Channel	0.955	1.105	PASS				

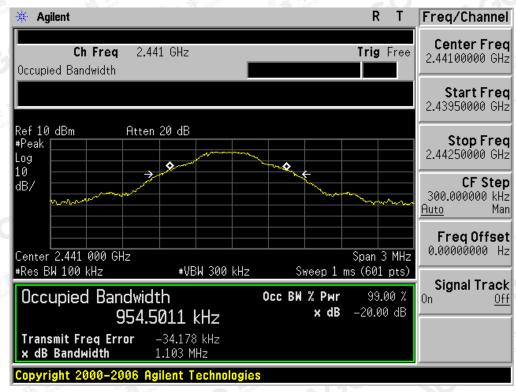


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Aller	litza		- Male	2 Colu	
BLUET	DOTH 2MBPS LIN	ITS AND MEASU	REMENT RESULT		
		Measure	ement Result		
Applicable Limits		Test Data (MHz))	Desult	
		99%OBW (MHz)	-20dB BW(MHz)	Result	
The the and the the second	Low Channel	1.237	1.423	PASS	
N/A	Middle Channel	1.248	1.432	PASS	
	High Channel	1.246	1.422	PASS	
	10-	- illin	M. M. S. Co.	Alle Alle	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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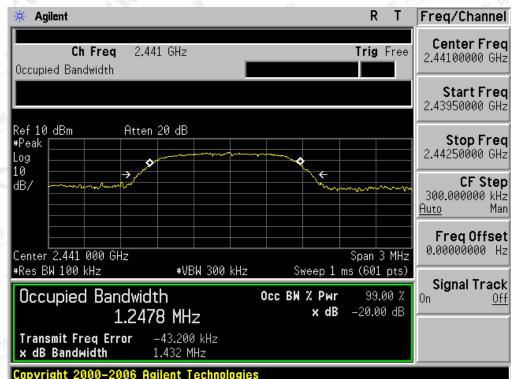
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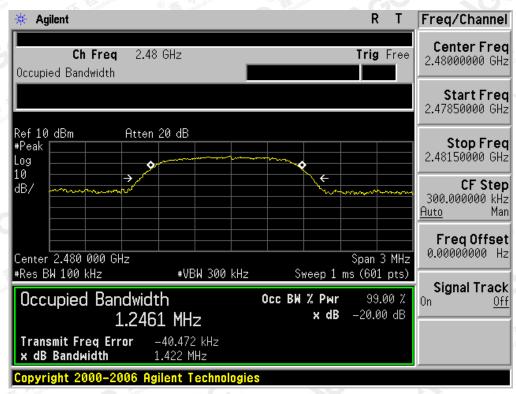
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Alle	liter	. A.	in the store	El contra				
BLUET	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Dec. H						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
A THE AMERICAN	Low Channel	1.249	1.408	PASS				
N/A	Middle Channel	1.250	1.419	PASS				
SGC "	High Channel	1.250	1.414	PASS				
		Ilin	M M Con	Nope Aller				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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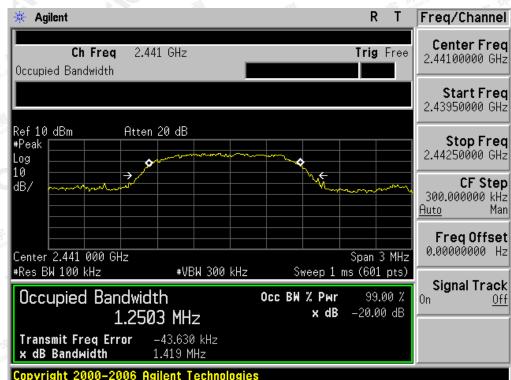
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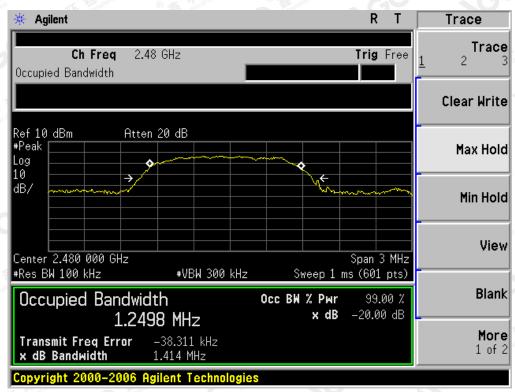
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

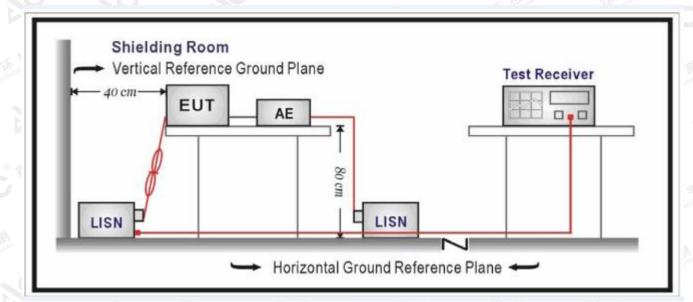
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	56	46					
5MHz~30MHz	60	50					

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 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.
- 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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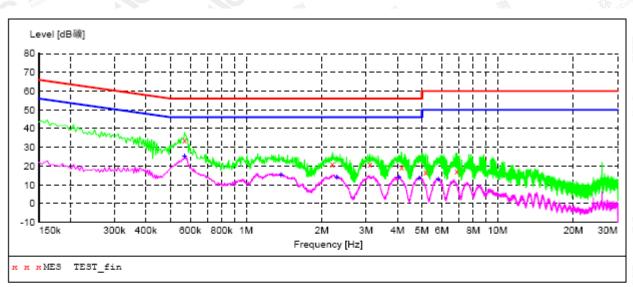
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

2



Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "TEST fin"

2018/3/20 9:59 Frequency MHz	Level dB礦	Transd dB	Limit dB礦	Margin dB	Detector	Line	PE
0.570000	33.70 21.00	11.4 11.3	56 56	22.3	QP	L1	FLO FLO
3.106000	20.70	11.3	56	35.0 35.3	QP QP	L1 L1	FLO
4.154000 5.178000	19.30 16.60	$11.4 \\ 11.4$	56 60	36.7 43.4	QP QP	L1 L1	FLO FLO
6.874000	17.10	11.2	60	42.9	QP	L1	FLO

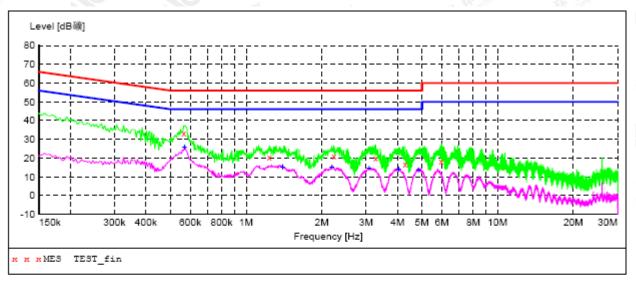
MEASUREMENT RESULT: "TEST fin2"

2018/3/20 9:59

Frequency MHz	Level dB礦	Transd dB	Limit dB礦	Margin dB	Detector	Line	PE
0.570000	25.20	11.4	46	20.8	AV	L1	FLO
1.378000	15.30	11.3	46	30.7	AV	L1	FLO
2.298000	14.20	11.3	46	31.8	AV	L1	FLO
4.050000	13.80	11.4	46	32.2	AV	L1	FLO
4.874000	13.60	11.4	46	32.4	AV	L1	FLO
5.814000	12.80	11.3	50	37.2	AV	L1	FLO



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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "TEST fin"

2018/3/20 9:54 Frequency Level Transd Limit Margin Detector Line ΡE dB礦 dB礦 MHz dB dB 0.566000 33.00 11.4 56 23.0 QP Ν FLO 56 35.5 FLO 1.238000 20.50 11.3 QP Ν 56 FLO 2.234000 21.00 35.0 QP Ν 11.3 3.274000 20.00 11.4 56 36.0 QP Ν FLO 4.286000 16.80 11.4 56 39.2 QP Ν FLO 41.8 5.970000 18.20 11.3 60 Ν FLO OP

MEASUREMENT RESULT: "TEST fin2"

2018/3/20 9:54 Frequency MHz	-	Transd dB	Limit dB礦	Margin dB	Detector	Line	PE
0.570000	25.60	11.4	46	20.4	AV	Ν	FLO
1.398000	15.00	11.3	46	31.0	AV	Ν	FLO
2.190000	15.20	11.3	46	30.8	AV	N	FLO
3.082000	14.40	11.4	46	31.6	AV	Ν	FLO
4.038000	13.80	11.4	46	32.2	AV	Ν	FLO
4.850000	13.70	11.4	46	32.3	AV	Ν	FLO

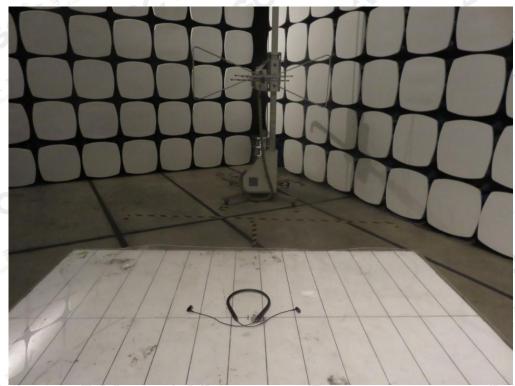


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



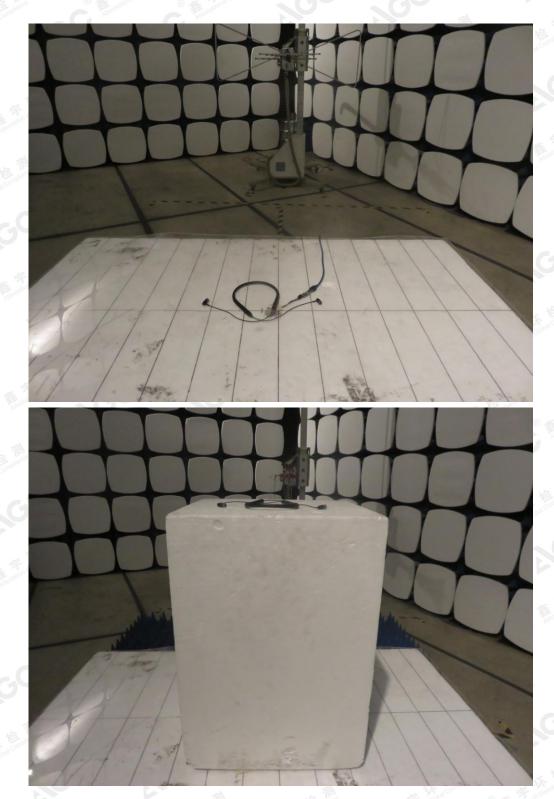
FCC RADIATED EMISSION TEST SETUP







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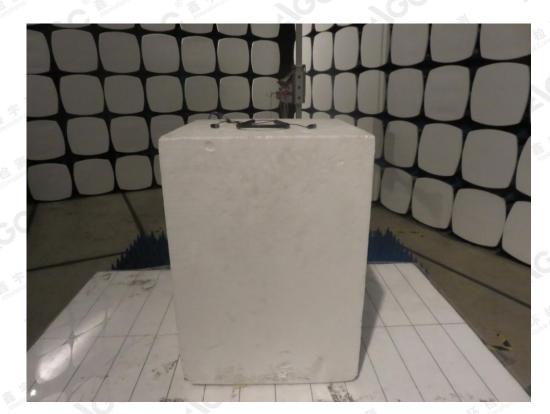


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APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT



BOTTOM VIEW OF EUT





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100 8 80 2 09 00 40 30 20 06 001 01 30 80 00 1 01 50 30 00 09 09 02 08 50 10 20 .09 OL 0 10 500 30 06 00L 0L 80 50 08 0\$ 05 0,9 0,2 08 50 30 40 20 09 OL

FRONT VIEW OF EUT

BACK VIEW OF EUT





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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



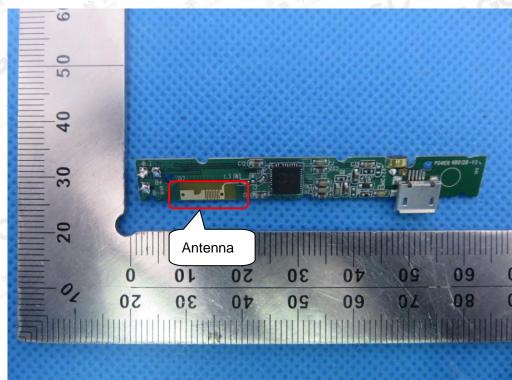




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INTERNAL VIEW OF EUT-1

INTERNAL VIEW OF EUT-2

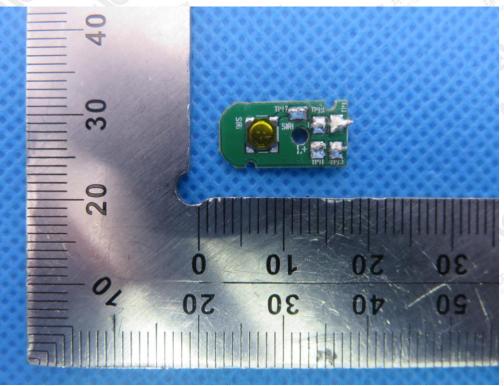




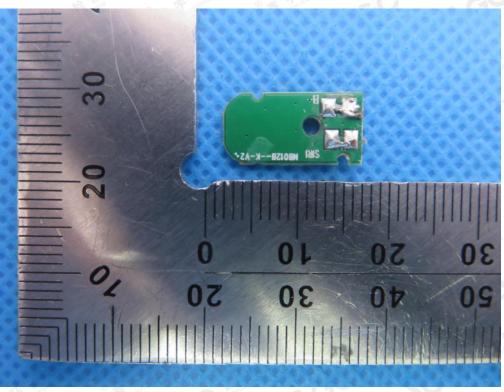


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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4







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INTERNAL VIEW OF EUT-5



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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