

FCC Test Report

Report No.: AGC01429180605FE03

FCC ID : AUSCR44

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: TURNTABLE CONSOLE CD

BRAND NAME : CROSLEY

MODEL NAME : CR44CDE-OA, CR44XXX-XX

CLIENT: Modern Marketing Concepts, Inc.

DATE OF ISSUE : Jun. 22, 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 Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience / © Marie	Jun. 22, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Modern Marketing Concepts, Inc.		
Address	1220 E Oak, St. Louisville, Kentucky, United States 40204		
Manufacturer	Timsen International Limited		
Address	5F, 447# Tianhebei Road, Guangzhou, China		
Product Designation	TURNTABLE CONSOLE CD		
Brand Name	CROSLEY		
Test Model	CR44CDE-OA		
Series Model	CR44XXX-XX (XXX-XX represents the color, they can be replaced by letter from A to Z or blank)		
Difference description	All the same except for the model name and appearance color.		
Date of test	Jun. 11, 2018 to Jun. 18, 2018		
Deviation	None State of the		
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.

T. I. I.D.		Henry	Zhang		
Tested By	Henry Zhan	g(Zhang Zh	nuorui)	Jun. 18, 2018	
		cuo	cheng		
Reviewed By_	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Times (THE STATE OF THE S	pal Compi	G)
	Cool Cheng(Cheng Mer	ngguo)	Jun. 22, 2018	
Approved By		Fore	st ei		
All Control of the state of the		i(Lei Yongg rized Office		Jun. 22, 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	0.69dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.1
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V4.1
Software Version	V4.1
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	AC 120V 60Hz 0.5A MAX

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
Management (September 1997)	0	2402MHz
	1 Expression	2403MHz
The Hallance	The state of the s	CC CC
© State and ordered (©)	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
16	40	2442 MHz
TY TO THE REPORT OF THE PARTY O	O Manufacture : CC Manufacture .	50 D
of Global Comments	77	2479 MHz
	78	2480 MHz

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3. MEASUREMENT UNCERTAINTY

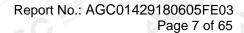
The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- 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

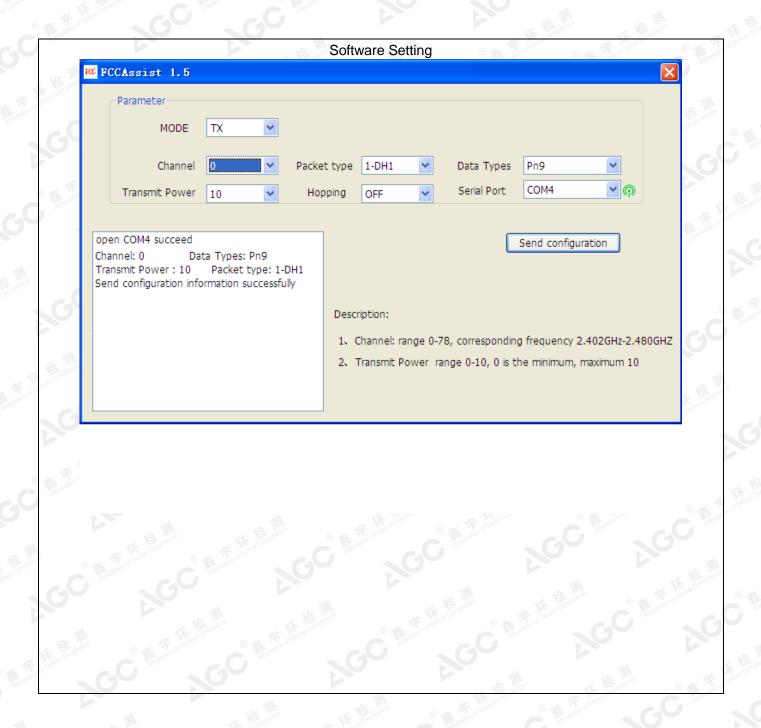
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
® All Tool Glove	Low channel GFSK		
2 0	Middle channel GFSK		
3	High channel GFSK		
· 4 · 6	Low channel π /4-DQPSK		
obal Cons	Middle channel π /4-DQPSK		
6	High channel π /4-DQPSK		
7	BT Link		

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

	EUT	
1		- 1

Configure 2: (Control continuous TX)

	8	Dal Co	
EUT	Control box		PC

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	TURNTABLE CONSOLE CD	CROSLEY	CR44CDE-OA	EUT
2	PC	APPLE	A1465	A.E
3	Control box	GZUT	N/A	A.E
4	IPOD	APPLE	A1367	A.E.C
5	USB Cable	N/A	1m unshielded	A.E
6	AUX in Cable	N/A	1.6m 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, 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	Test Receiver R&S		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	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	June 6, 2018	June 5, 2019
Radiation Cable 2	MXT	RS1	R006	June 6, 2018	June 5, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	20	Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (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)	技訓				
1.705 ~ 30	30	30 (1)	E Cobaco (Color of Color of Co				
30 ~ 88	3 F 1000	100	40.0				
88 ~ 216	3 - 6	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	3. I	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 12mm 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 12mm 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.

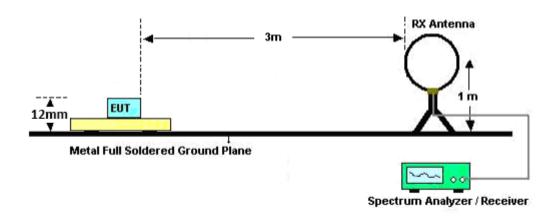
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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

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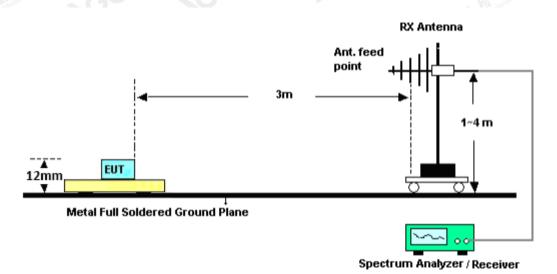


9.3. TEST SETUP

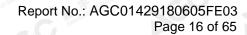
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

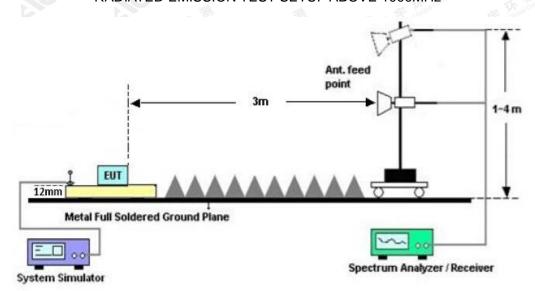


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

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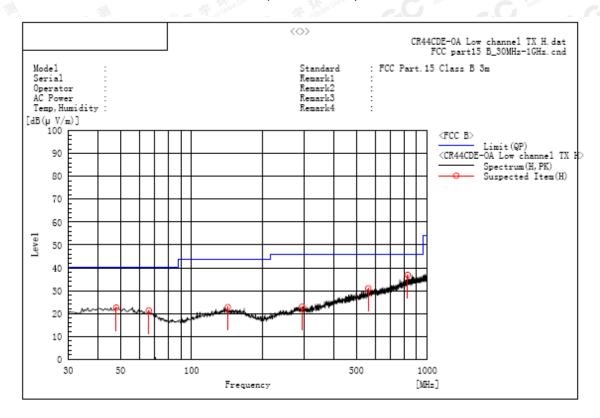
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RADIATED EMISSION BELOW 1GHz

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



A. Suspected List:

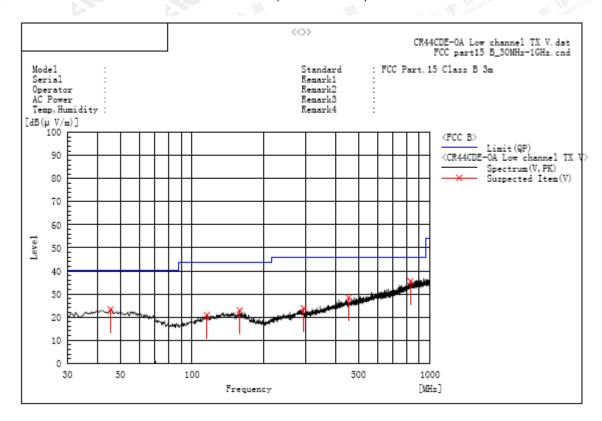
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
47.945	H	5.4	17.2	22.6	40.0	17.4	Pass	100.0	356.4
65.890	H	6.0	15.4	21.4	40.0	18.6	Pass	100.0	294.8
142.520	Н	6.2	16.6	22.8	43.5	20.7	Pass	100.0	38.9
294.325	Н	5.4	17.5	22.9	46.0	23.1	Pass	100.0	180.7
561.560	H	6.9	24.1	31.0	46.0	15.0	Pass	100.0	48.9
824.915	Н	7.7	29.2	36.9	46.0	9.1	Pass	100.0	321.2

RESULT: PASS

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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
45.520	V	6.1	17.3	23.4	40.0	16.6	Pass	100.0	316.0
115.360	V	5.9	15.0	20.9	43.5	22.6	Pass	100.0	107.7
158.525	V	6.3	16.6	22.9	43.5	20.6	Pass	100.0	302.8
294.325	V	6.3	17.5	23.8	46.0	22.2	Pass	100.0	138.2
454.860	V	6.3	22.2	28.5	46.0	17.5	Pass	100.0	315.0
827.825	V	6.4	29.2	35.6	46.0	10.4	Pass	100.0	291.5

RESULT: PASS

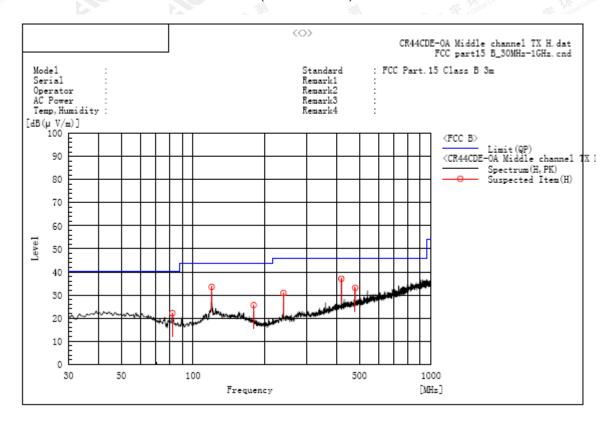
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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



A. Suspected List:

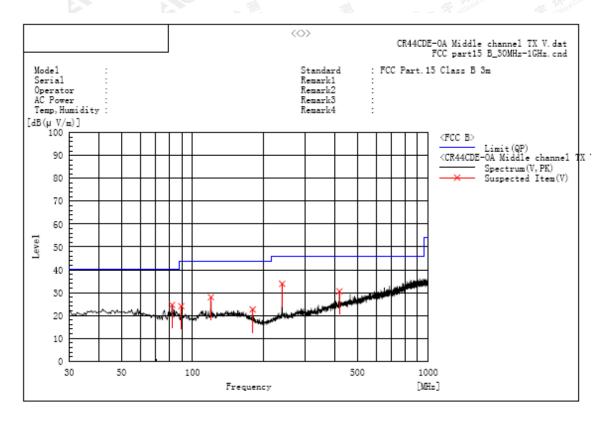
	Frequency MHz	Polarization Reading dB(uV)		Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	81.895	H	9.8	12.3	22.1	40.0	17.9	Pass	200.0	229.7
	119.725	Н	18.1	15.4	33.5	43.5	10.0	Pass	100.0	182.7
	179.865	Н	11.0	14.6	25.6	43.5	17.9	Pass	200.0	138.9
1	240.005	Н	14.6	16.2	30.8	46.0	15.2	Pass	100.0	146.1
	419.940	Н	15.6	21.4	37.0	46.0	9.0	Pass	200.0	30.9
	480.080	Н	10.5	22.6	33.1	46.0	12.9	Pass	200.0	247.5

RESULT: PASS

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



A. Suspected List:

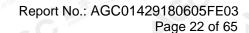
Frequency MHz	Polarization	Reading dB(uV)	- 1 48 14		Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
81.895	V	12.3	12.3	24.6	40.0	15.4	Pass	200.0	288.4
89.655	V	11.8	12.3	24.1	43.5	19.4	Pass	100.0	91.0
119.725	V	12.6	15.4	28.0	43.5	15.5	Pass	100.0	91.0
179.865	V	8.0	14.6	22.6	43.5	20.9	Pass	150.0	34.5
240.005	v	17.7	16.2	33.9	46.0	12.1	Pass	200.0	288.4
419.940	v	9.2	21.4	30.6	46.0	15.4	Pass	100.0	18.3

RESULT: PASS

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

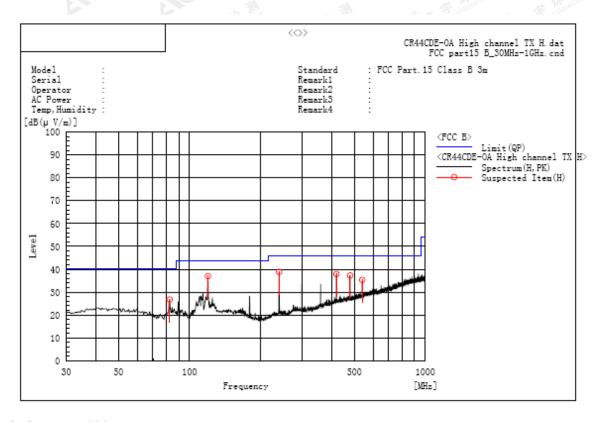
2. The "Factor" value can be calculated automatically by software of measurement system.

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



A. Suspected List:

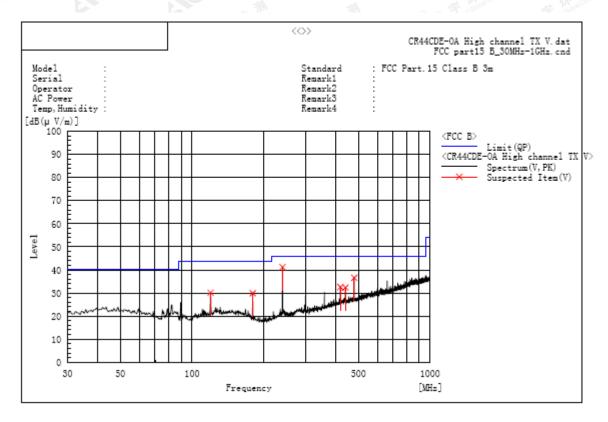
Frequency MHz	Polarization	arization Reading dB(uV)		Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
82.380	H	14.4	12.3	26.7	40.0	13.3	Pass	200.0	136.2
119.725	Н	21.6	15.4	37.0	43.5	6.5	Pass	150.0	221.2
240.005	Н	22.6	16.2	38.8	46.0	7.2	Pass	100.0	263.5
419.940	Н	16.5	21.4	37.9	46.0	8.1	Pass	200.0	174.8
480.080	Н	14.7	22.6	37.3	46.0	8.7	Pass	100.0	331.1
540.220	Н	11.6	23.7	35.3	46.0	10.7	Pass	150.0	237.7

RESULT: PASS

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



A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	119.725	V	14.7	15.4	30.1	43.5	13.4	Pass	100.0	238.9
	179.865	V	15.3	14.6	29.9	43.5	13.6	Pass	200.0	304.7
	240.005	V	25.0	16.2	41.2	46.0	4.8	Pass	200.0	124.5
1	419.940	V	11.2	21.4	32.6	46.0	13.4	Pass	150.0	254.5
	440.795	V	10.5	21.9	32.4	46.0	13.6	Pass	100.0	3.4
	480.080	v	14.0	22.6	36.6	46.0	9.4	Pass	150.0	201.4

RESULT: PASS

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

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

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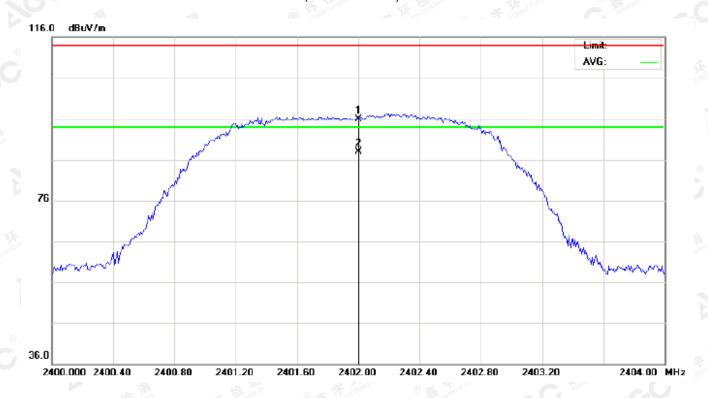
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: GFSK)

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	dBu∀/m	dB		cm	degree	
1		2402.000	85.57	10.32	95.89	114.00	-18.11	peak			
2	*	2402.000	77.61	10.32	87.93	94.00	-6.07	AVG	100	253	

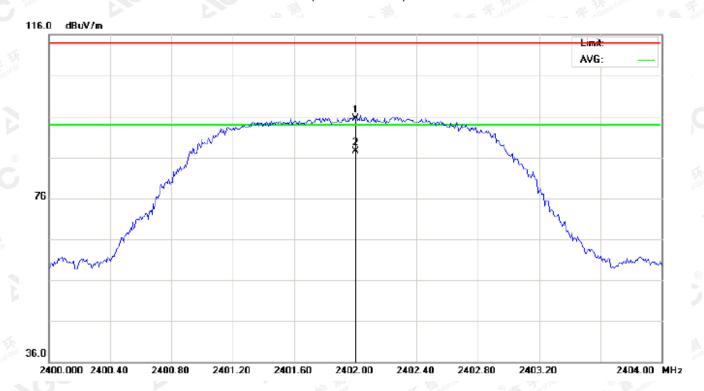
RESULT: PASS

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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	85.16	10.32	95.48	114.00	-18.52	peak			
2	*	2402.000	77.09	10.32	87.41	94.00	-6.59	AVG	100	121	

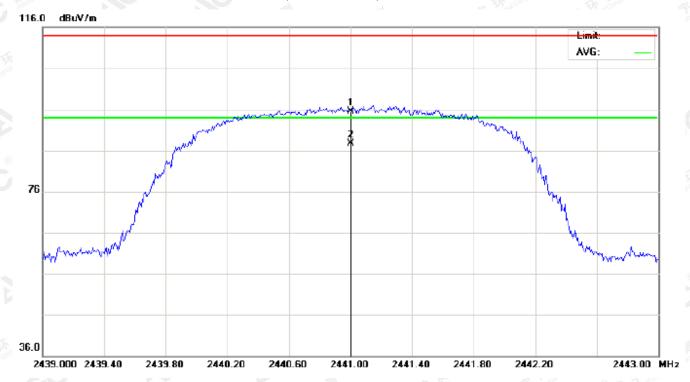
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	85.20	10.36	95.56	114.00	-18.44	peak			
2	*	2441.000	77.29	10.36	87.65	94.00	-6.35	AVG	100	258	

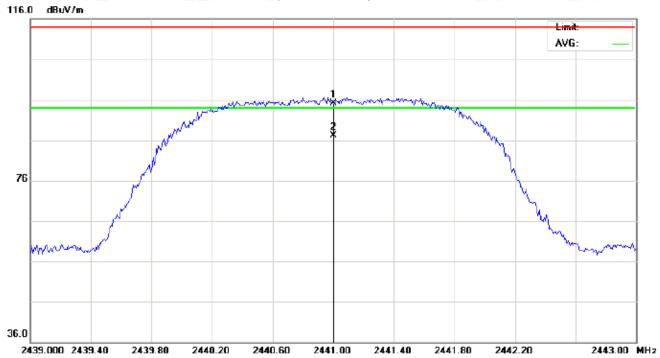
RESULT: PASS

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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	
1		2441.000	84.75	10.36	95.11	114.00	-18.89	peak			
2	*	2441.000	76.71	10.36	87.07	94.00	-6.93	AVG	100	125	

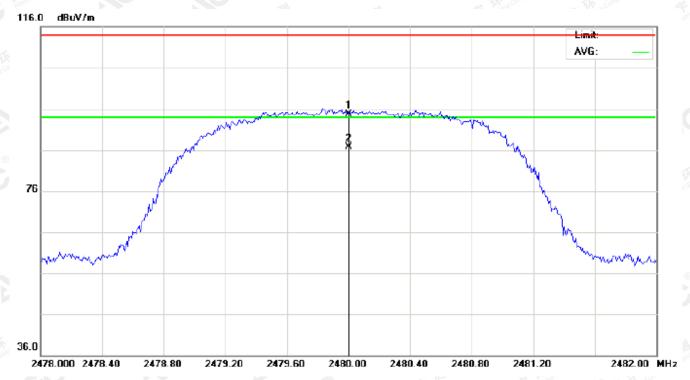
RESULT: PASS

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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	dBu∀/m	dB		cm	degree	
1		2480.000	84.24	10.41	94.65	114.00	-19.35	peak			
2	*	2480.000	76.33	10.41	86.74	94.00	-7.26	AVG	100	259	

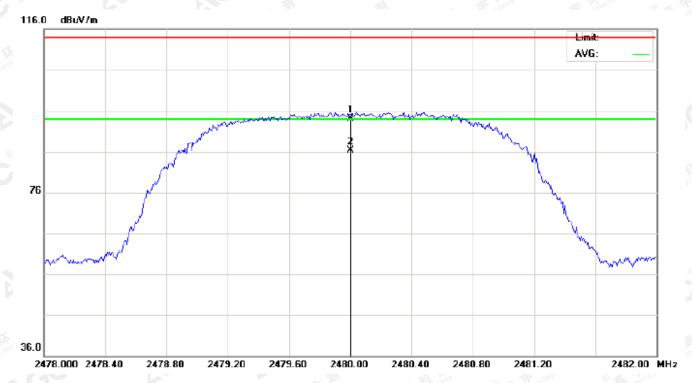
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	83.74	10.41	94.15	114.00	-19.85	peak			
2	*	2480.000	75.84	10.41	86.25	94.00	-7.75	AVG	100	128	

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	85.57	10.32	95.89	114	-18.11	Horizontal
2402	85.16	10.32	95.48	114	-18.52	Vertical
2441	85.20	10.36	95.56	114	-18.44	Horizontal
2441	84.75	10.36	95.11	114	-18.89	Vertical
2480	84.24	10.41	94.65	114	-19.35	Horizontal
2480	83.74	10.41	94.15	114	-19.85	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.61	10.32	87.93	94	-6.07	Horizontal
2402	77.09	10.32	87.41	94	-6.59	Vertical
2441	77.29	10.36	87.65	94	-6.35	Horizontal
2441	76.71	10.36	87.07	94	-6.93	Vertical
2480	76.33	10.41	86.74	94	-7.26	Horizontal
2480	75.84	10.41	86.25	94	-7.75	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	85.09	10.32	95.41	114	-18.59	Horizontal	
2402	84.73	10.32	95.05	114	-18.95	Vertical	
2441	84.80	10.36	95.16	114	-18.84	Horizontal	
2441	84.28	10.36	94.64	114	-19.36	Vertical	
2480	83.80	10.41	94.21	114	-19.79	Horizontal	
2480	83.27	10.41	93.68	114	-20.32	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.19	10.32	87.51	94	-6.49	Horizontal
2402	76.64	10.32	86.96	94	-7.04	Vertical
2441	76.87	10.36	87.23	94	-6.77	Horizontal
2441	76.29	10.36	86.65	94	-7.35	Vertical
2480	75.84	10.41	86.25	94	-7.75	Horizontal
2480	75.36	10.41	85.77	94	-8.23	Vertical

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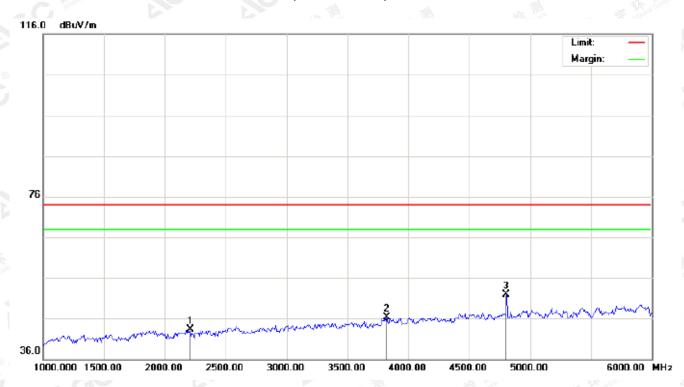
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FOR BR/EDR

(Worst modulation: GFSK)

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	dBu∀/m	dB		cm	degree	
1		2208.333	33.17	10.11	43.28	74.00	-30.72	peak			
2		3825.000	32.20	14.11	46.31	74.00	-27.69	peak			
3	*	4804.000	44.21	7.69	51.90	74.00	-22.10	peak			

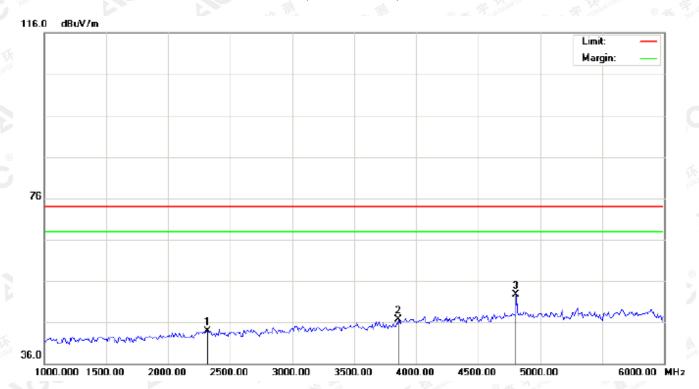
RESULT: PASS

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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
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2316.667	33.72	10.23	43.95	74.00	-30.05	peak			
2		3858.333	32.43	14.32	46.75	74.00	-27.25	peak			
3	*	4804.000	45.05	7.69	52.74	74.00	-21.26	peak			

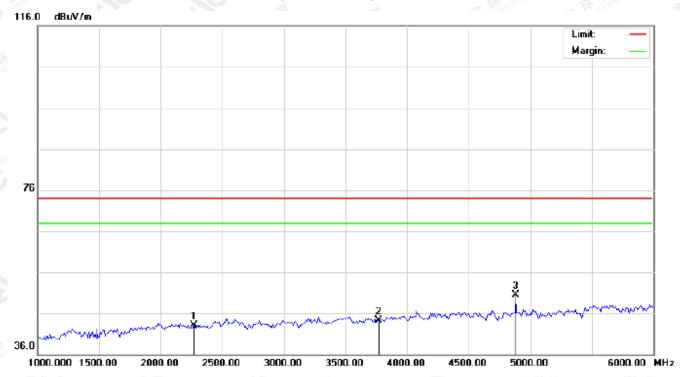
RESULT: PASS

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



ı	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		2266.667	33.02	10.17	43.19	74.00	-30.81	peak			
	2		3766.667	30.45	13.75	44.20	74.00	-29.80	peak			
	3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

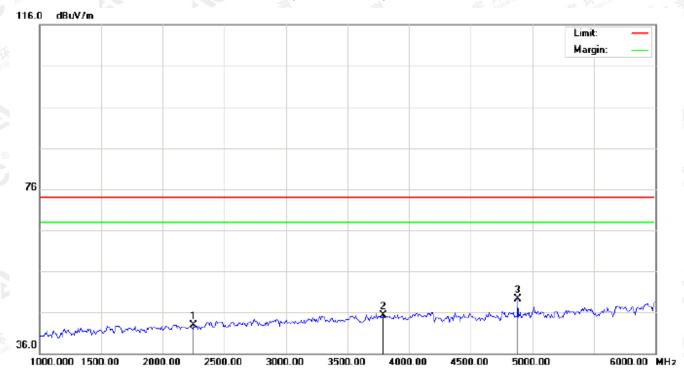
RESULT: PASS

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



N	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		2250.000	32.83	10.15	42.98	74.00	-31.02	peak			
	2		3791.667	31.46	13.91	45.37	74.00	-28.63	peak			
	3	*	4882.000	41.39	7.89	49.28	74.00	-24.72	peak			

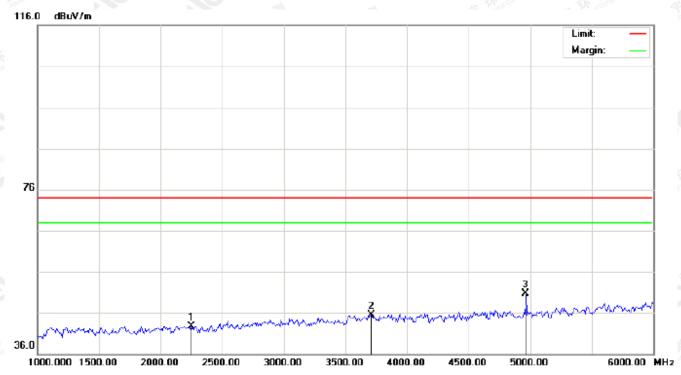
RESULT: PASS

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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	dBu∀/m	dB		cm	degree	
1		2250.000	32.63	10.15	42.78	74.00	-31.22	peak			
2		3708.333	32.09	13.39	45.48	74.00	-28.52	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

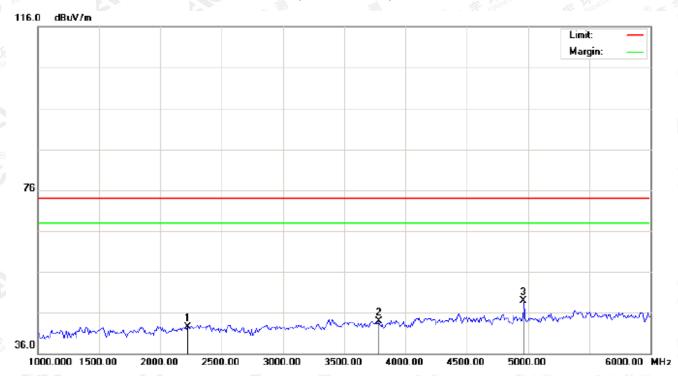
DECILIT: DACC

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



No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2225.000	32.29	10.13	42.42	74.00	-31.58	peak			
2		3783.333	30.13	13.86	43.99	74.00	-30.01	peak			
3	*	4960.000	40.91	8.09	49.00	74.00	-25.00	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

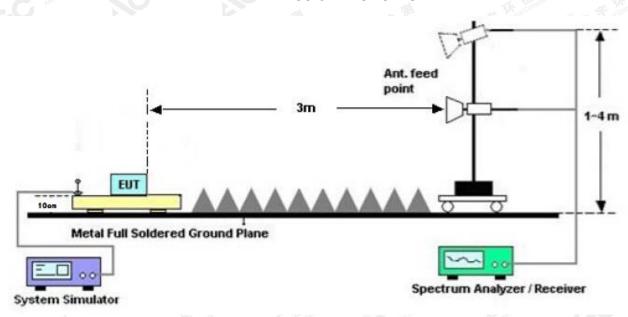
10.1. MEASUREMENT PROCEDURE

- 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(MHz)			
	2200	Kingliance	The Compilers	© A station	2405	100°	
8 M. H	2478	Global Co	attestation of Glob	-,0 "	2500		

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

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	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2379.375	30.92	10.30	41.22	74.00	-32.78	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	85.54	10.32	95.86	74.00	21.86	peak			
5	Х	2402.000	77.58	10.32	87.90	74.00	13.90	AVG	100	252	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



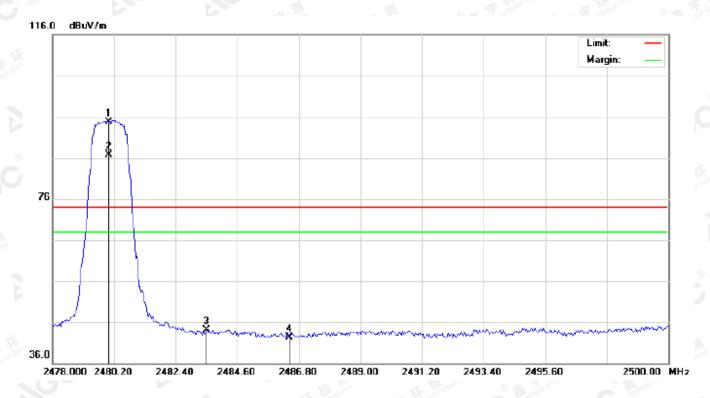
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2357.850	31.26	10.27	41.53	74.00	-32.47	peak		·	
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	85.14	10.32	95.46	74.00	21.46	peak			
5	Х	2402.000	77.12	10.32	87.44	74.00	13.44	AVG	100	122	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



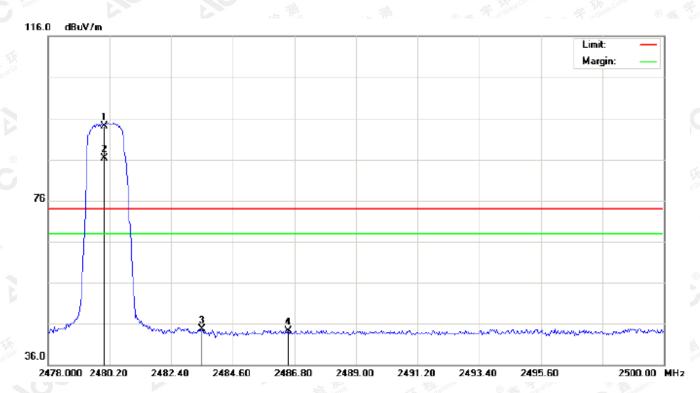
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	84.20	10.41	94.61	74.00	20.61	peak			
2	Х	2480.000	76.30	10.41	86.71	74.00	12.71	AVG	100	256	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2486.470	31.97	10.41	42.38	74.00	-31.62	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



N	Vo.	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	*	2480.000	83.71	10.41	94.12	74.00	20.12	peak			
Γ	2	Х	2480.000	75.81	10.41	86.22	74.00	12.22	AVG	100	124	
Γ	3		2483.500	34.26	10.41	44.67	74.00	-29.33	peak			
	4		2486.580	33.80	10.42	44.22	74.00	-29.78	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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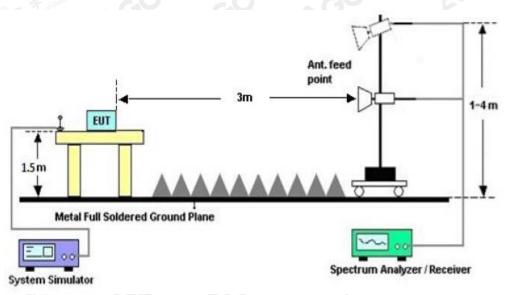
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11. 20DB BANDWIDTH

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

BLUETO	OOTH 1MBPS LIN	IITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Test Data (MHz)		Result				
		99%OBW (MHz)	-20dB BW(MHz)	Result				
Goden Committee	Low Channel	0.903	1.066	PASS				
N/A	Middle Channel	0.898	1.044	PASS				
	High Channel	0.900	1.058	PASS				

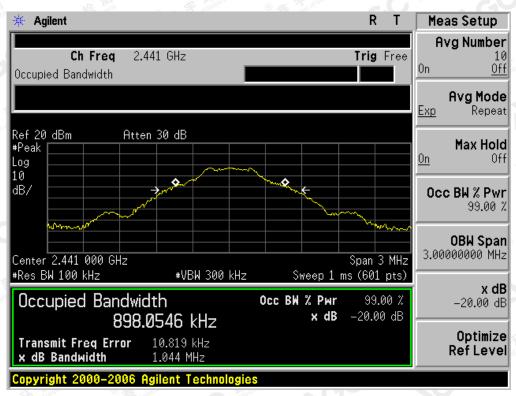
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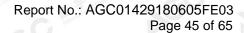
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

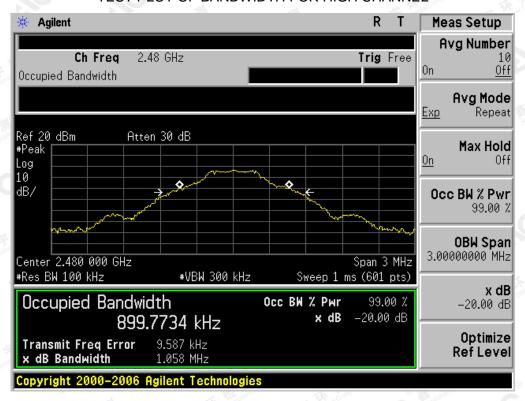


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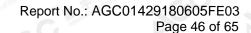




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



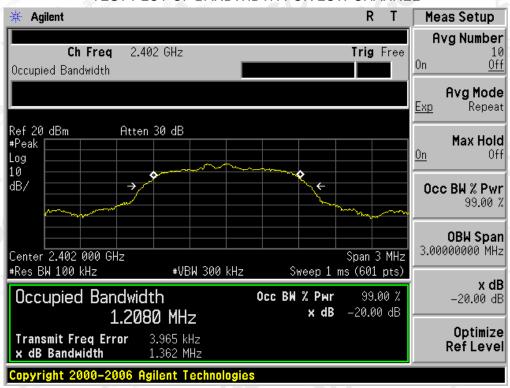
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result **Applicable Limits** Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.208 **PASS** 1.362 **PASS** N/A Middle Channel 1.215 1.359 **PASS High Channel** 1.212 1.359

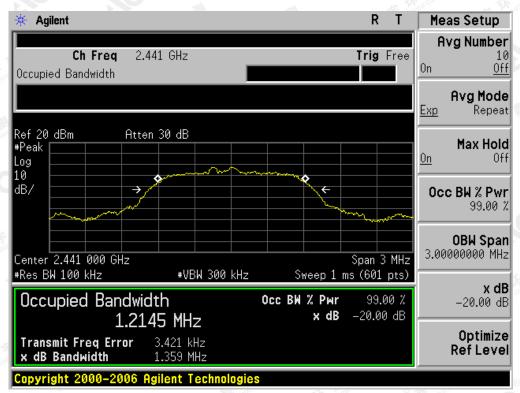
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



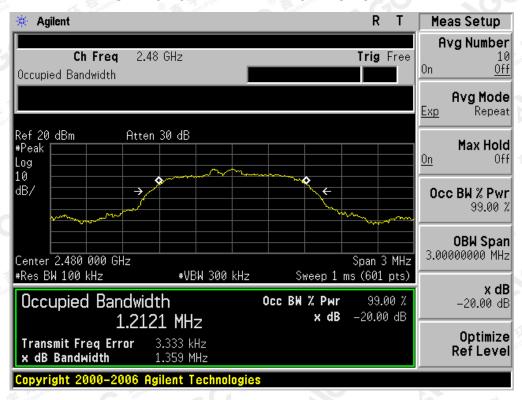
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

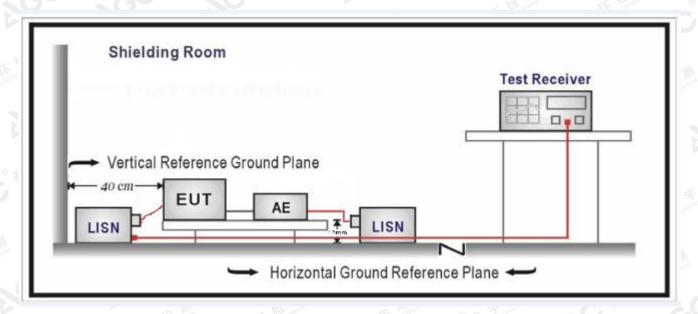
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF 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

- 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 12mm 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 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.
- 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

- 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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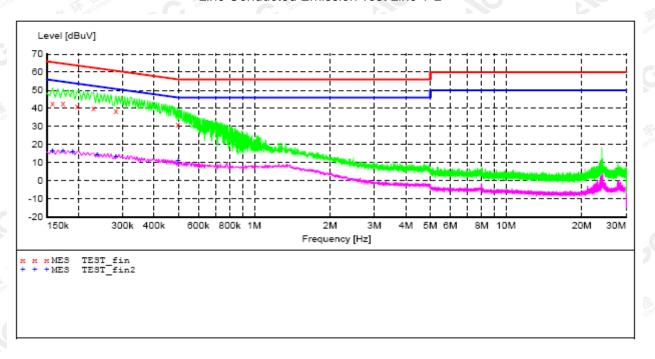


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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	42.90	10.0	66	22.7	QP	L1	FLO
0.174000	42.60	10.0	65	22.2	QP	L1	FLO
0.198000	41.30	10.1	64	22.4	QP	L1	FLO
0.230000	40.20	10.1	62	22.2	QP	L1	FLO
0.282000	38.70	10.1	61	22.1	QP	L1	FLO
0.498000	31.20	10.0	56	24.8	QP	L1	FLO

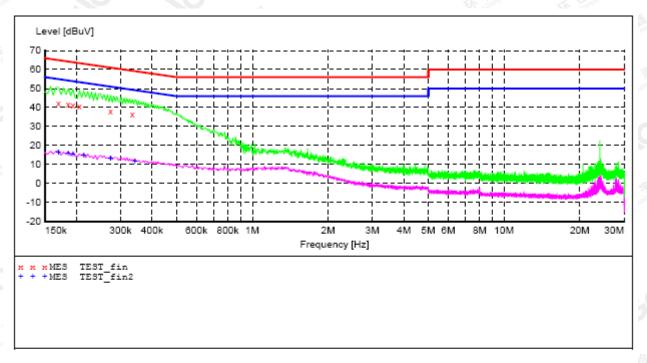
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000 0.174000 0.190000 0.238000 0.282000 0.498000	16.40 16.40 15.90 14.40 13.60	10.0 10.0 10.1 10.1 10.1 10.0	56 55 54 52 51 46	39.2 38.4 38.1 37.8 37.2 35.0	AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

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Line Conducted Emission Test Line 2-N



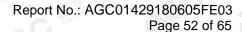
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.170000 0.186000 0.194000 0.206000 0.274000	42.40 42.00 41.30 40.90 38.30	10.0 10.0 10.1 10.1 10.1	65 64 64 63 61		QP QP	N N N N	FLO FLO FLO FLO
0.334000	36.60	10.0	59	22.8	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.170000 0.186000 0.194000 0.214000 0.274000 0.342000	16.30 15.90 15.60 14.80 13.40 12.00	10.0 10.0 10.1 10.1 10.1 10.0	55 54 54 53 51 49	38.3 38.2	AV AV AV AV AV	N N N N N	FLO FLO FLO FLO FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



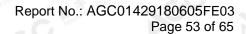
FCC RADIATED EMISSION TEST SETUP



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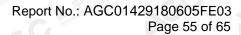
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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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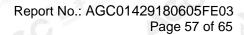
FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



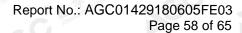
RIGHT VIEW OF EUT



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VIEW OF EUT (LOCAL)-1



VIEW OF EUT (LOCAL)-2



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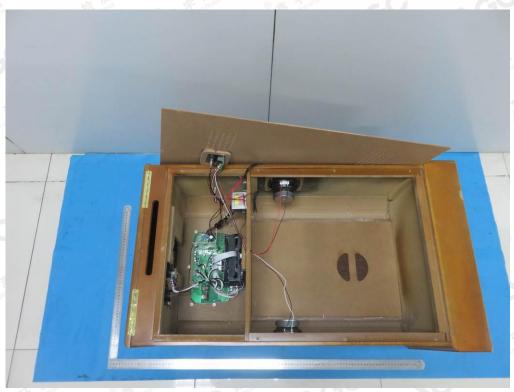
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VIEW OF EUT (PORT)



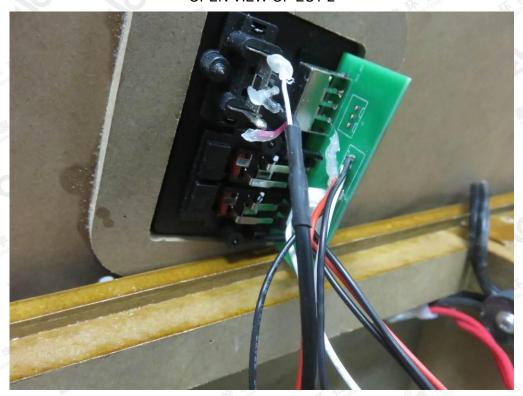
OPEN VIEW OF EUT-1



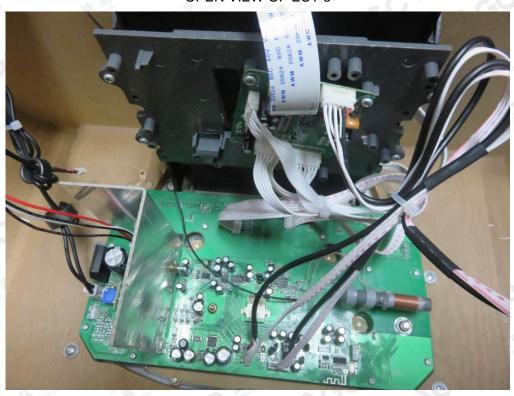
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OPEN VIEW OF EUT-2

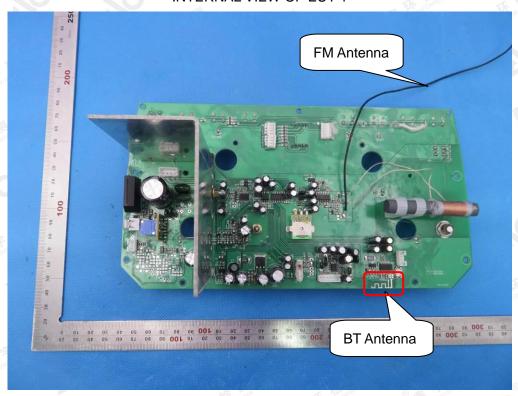


OPEN VIEW OF EUT-3



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INTERNAL VIEW OF EUT-2

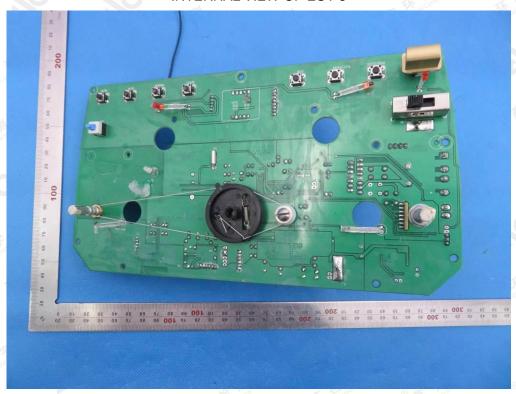


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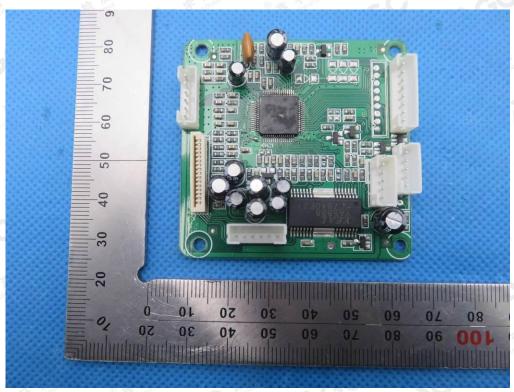
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INTERNAL VIEW OF EUT-4

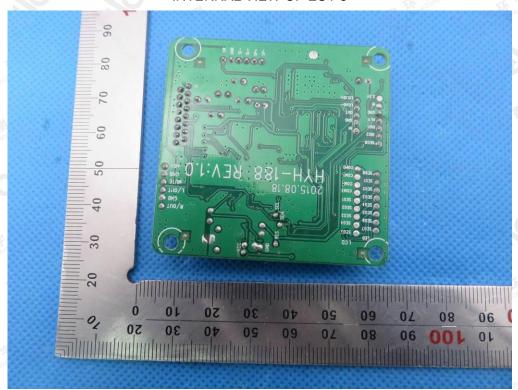


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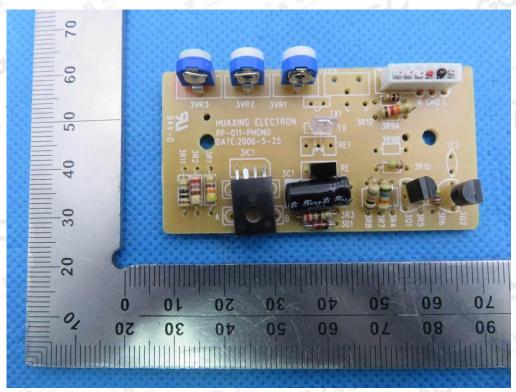
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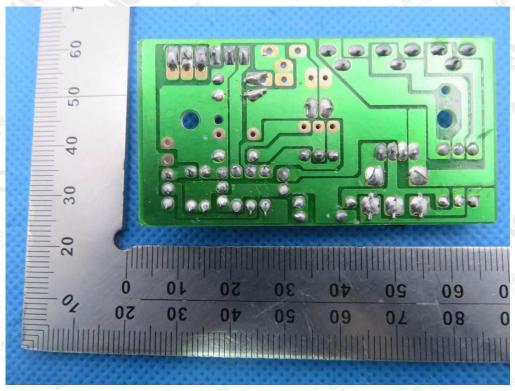


INTERNAL VIEW OF EUT-6

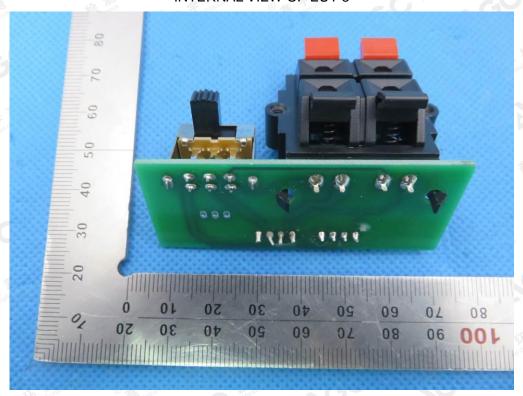


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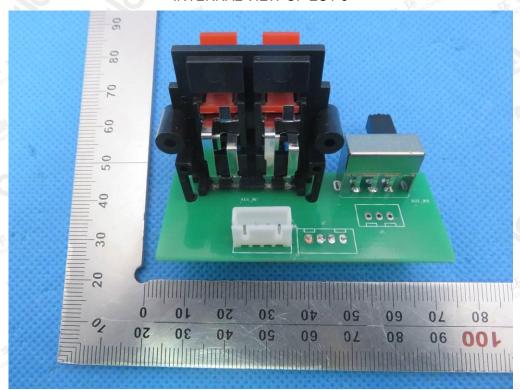


INTERNAL VIEW OF EUT-8

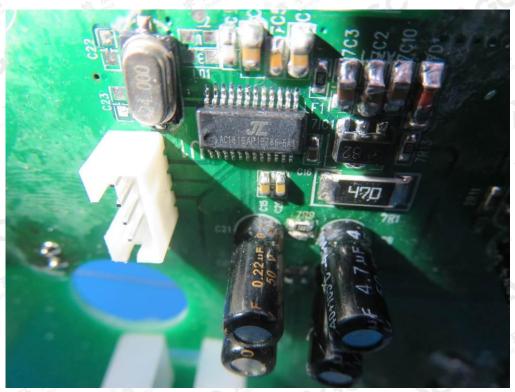


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INTERNAL VIEW OF EUT-10



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