

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	Modern Marketing Concepts, Inc.
Address	:	1220 E Oak, St. Louisville Kentucky United States 40204
Equipment under Test	:	Cruiser Deluxe Turntable
Model No.	:	CR8005D
Trade Mark	:	CROSLEY
FCC ID	:	AUSCR8005D
Manufacturer	:	Shenzhen Jiayinking Technology Holding Company Limited
Address	:	No.11, 11-1, Anye Road, Anliang village, Henggang Town, Longgang District, Shenzhen, China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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REPORT

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TEST REPORT DECLARE

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Manufacturer	:	Shenzhen Jiayinking Technology Holding Company Limited
Address	:	No.11, 11-1, Anye Road, Anliang village, Henggang Town, Longgang District, Shenzhen, China

Test Standard Used:

CFR47 FCC Part 15: Subpart C Section 15.247; CFR47 FCC Part 15: Subpart C Section 15.207;

CFR47 FCC Part 15: Subpart C Section 15.209;

RSS-247 Issue 2 February 2017; RSS-Gen Issue 4, Nov. 2014; RSS-102 Issue 5, Mar. 2015.

Test procedure used:

ANSI C63.10:2013, ANSI C63.4:2014, FCC KDB Publication 447498 D01 v06.

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-R17Q0313-9E2		
Date of Receipt:	May 11, 2017	Date of Test:	May 11, 2017

Prepared By:


Leo Liu/Engineer



Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

1. Summary of test results

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.10:2013 RSS-247 Issue 2 clause 5.4.b	PASS
20dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.215 ANSI C63.10:2013 RSS-247 Issue 2 clause 5.1	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.10:2013 RSS-247 Issue 2 clause 5.1	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10:2013 RSS-247 Issue 2 clause 5.1	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10:2013 RSS-247 Issue 2 clause 5.1	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2013 RSS-247 Issue 2 clause 5.5 RSS-Gen Issue 4 clause 8.9 RSS-Gen Issue 4 clause 8.10	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.10:2013 RSS-247 Issue 2 clause 5.5 RSS-Gen Issue 4 clause 8.9 RSS-Gen Issue 4 clause 8.10	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:2013 RSS-Gen Issue 4 clause 8.8	PASS
Antenna requirement	FCC Part 15: 15.203 RSS-Gen Issue 4 clause 8.3	PASS

2. General test information

2.1. Description of EUT

EUT* Name	: Cruiser Deluxe Turntable
Model Number	: CR8005D
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V from power supply input AC 120V/60Hz
Radio Specification	: Bluetooth V4.1 (BDR/EDR)
Operation frequency	: 2402MHz -2480MHz
Modulation	: GFSK, $\pi/4$ QPSK, 8-DPSK
Data rate	: 1Mbps, 2Mbps, 3Mbps
Antenna Type	: Integrated Antenna, maximum PK gain: -0.68 dBi
Sample Type	: Series production

Note: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

Description of Accessories	Brand	Model number	Serial No.	Other
SWITCHING POWER SUPPLY	GKY	GKYPB0100050US	N/A	Output: 5V, 1A

2.3. Assistant equipment used for test

Assistant equipment	Brand	Model number	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



Test software: Bluesuite 2.6.0

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode as blow table.

Tested mode, channel, information		
Mode	Channel	Frequency (MHz)
GFSK hopping on Tx Mode	CH0 to CH78	2402 to 2480
$\pi/4$ QPSK Hopping on TX mode	CH0 to CH78	2402 to 2480
8-DPSK hopping on Tx Mode	CH0 to CH78	2402 to 2480
GFSK hopping off Tx Mode	CH0	2402
	CH39	2441
	CH78	2480
$\pi/4$ QPSK hopping off Tx Mode	CH0	2402
	CH39	2441
	CH78	2480
8-DPSK hopping off Tx Mode	CH0	2402
	CH39	2441
	CH78	2480

Note: For $\pi/4$ QPSK its same modulation type with 8-DPSK, and based exploratory test, there is no significant difference of that two types test result, so except output power, all other items final test were only performed with the worse case 8-DPSK and GFSK.

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25°C
Humidity range:	40-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong

Province, China, 523808 Tel: +86-0769-22891499 <http://www.dgddt.com>

FCC Registration Number: 270092 Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power(Conducted)(Spectrum analyzer)	0.86dB(10 MHz \leq f < 3.6GHz);
	1.38dB(3.6GHz \leq f < 8GHz)
Peak Output Power(Conducted)(Power Sensor)	0.74dB

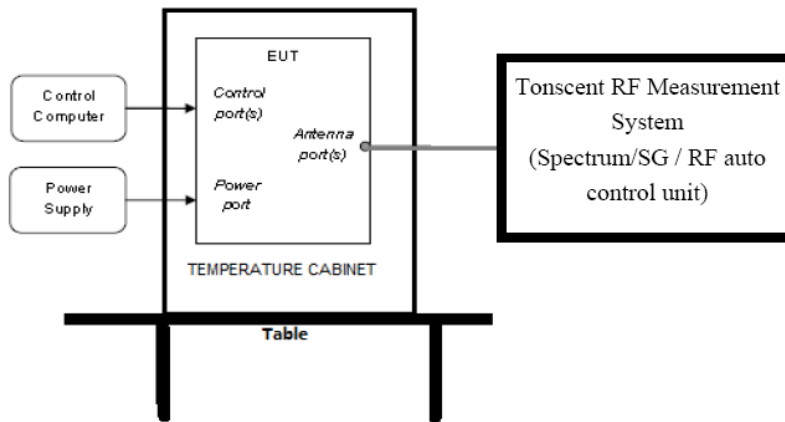
Dwell Time	0.6%
Conducted spurious emissions	0.86dB(10 MHz ≤ f < 3.6GHz);
	1.40dB(3.6GHz ≤ f < 8GHz)
	1.66dB(8GHz ≤ f < 22GHz)
Uncertainty for radio frequency (RBW<20KHz)	3×10^{-8}
Temperature	0.4°C
Humidity	2%
Uncertainty for Radiation Emission test (30MHz-1GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1GHz-18GHz)	4.10dB(1-6GHz)
	4.40dB (6GHz-18Gz)
Uncertainty for Power line conduction emission test	3.32dB (150KHz-30MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected test					
Spectrum analyzer	R&S	FSU26	1166.1660.26	2016/10/16	1Year
Vertor Signal Generator	Agilent	E8267D	MY52098743	2016/10/20	1Year
Vector Signal Generator	Agilent	N5182A	MY48180737	2016/07/05	1Year
Power Sensor	Agilent	U2021XA	MY55150010	2017/04/18	1Year
Power Sensor	Agilent	U2021XA	MY55150011	2017/04/19	1Year
DC Power Source	MATRIS	MPS-3005L-3	D813058W	2016/10/24	1Year
Attenuator	Mini-Circuits	BW-S10W2	101109	2016/08/18	1Year
RF Cable	Micable	C10-01-01-1	100309	2016/08/18	1Year
Temp&Humi Programmable Chamber	Dongguan Bell	BE-TH-150M3	201208153364	2016/09/23	1Year
Test Software	JS Tonscend	JS1120-2	Ver.2.5	N/A	N/A
USB Data acquisition	Agilent	U2531A	TW55043503	N/A	N/A
Auto control Unit	JS Tonscend	JS0806-2	158060010	N/A	N/A
RE/RF in chamber					
EMI Test Receiver	R&S	ESU8	100316	2016/10/16	1Year
Spectrum analyzer	R&S	FSU26	1166.1660.26	2016/10/16	1Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	2016/10/27	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	2016/10/27	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	2016/10/12	1 Year
Horn Antenna	ETS-LINDGERN	3160	SEL0076	2016/10/16	1 Year
Pre-amplifier	A.H.	PAM-0118	360	2016/10/16	1 Year
Pre-amplifier	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2016/10/16	1 Year
RF Cable	HUBSER	CP-X2	W11.03	2016/10/16	1Year
RF Cable	HUBSER	CP-X1	W12.02	2016/10/16	1 Year
MI Cable	HUBSER	C10-01-01-1M	1091629	2016/10/16	1 Year
Test software	Audix	E3	V 6.11111b	/	/
Conducted disturbance at mains terminals/Telecommunication port					
Test Receiver	R&S	ESU8	100316	2016/10/16	1 Year
LISN 1	R&S	ENV216	101109	2016/10/16	1 Year
LISN 2	R&S	ESH2-Z5	100309	2016/10/16	1 Year
8 Line ISN	R&S	ENY81	100063	2016/10/16	1Year
Pulse Limiter	R&S	ESH3-Z2	101242	2016/10/16	1 Year
CE Cable 1	HUBSER	ESU8/RF2	W10.01	2016/10/16	1 Year
Test software	Audix	E3	V 6.11111b	/	/

4. Maximum Peak Output Power

4.1. Block diagram of test setup



4.2. Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

4.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Measure the maximum output power of EUT by spectrum analyzer with PK detector and RBW=2MHz(above 20dB bandwidth of measured signal), VBW=3MHz

Note: The attenuator loss was inputted into spectrum analyzer as amplitude offset.

4.4. Test Result

Mode	Freq (MHz)	Result (dBm)	Limit (dBm)	Conclusion
GFSK	2402	2.210	21	PASS
	2441	2.270	21	PASS
	2480	1.980	21	PASS
8-DPSK	2402	1.650	21	PASS
	2441	2.920	21	PASS
	2480	2.570	21	PASS

5. 20dB Bandwidth and 99% Bandwidth

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 kHz RBW and 100 kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.4. Test Result

Mode	Freq (MHz)	20dB bandwidth Result (MHz)	99% bandwidth Result (MHz)	Conclusion
GFSK	2402	1.124	0.982	PASS
	2441	1.132	0.986	PASS
	2480	1.130	0.984	PASS
8-DPSK	2402	1.372	1.222	PASS
	2441	1.388	1.234	PASS
	2480	1.398	1.238	PASS

5.5. Original test data

Graphs	
GFSK/LCH	<p> Ref 20 dBm -Att 20 dB -RBW 100 kHz -VBW 300 kHz -SWT 5 ms MaxKee 4 [T1] -20.65 dBm 2.402356000 GHz Offset 9.6 dB Offset 1 1.64 dBm 2.402354000 GHz Offset 3 1.64 dBm 2.402352000 GHz Offset 1 1.64 dBm 2.401480000 GHz Temp 1 (T1) 1.64 dBm Offset 2 1.64 dBm 2.401306000 GHz Temp 2 (T1) 1.64 dBm Offset 3 1.64 dBm 2.402480000 GHz Center 2.402 GHz 200 kHz/ Span 2 MHz </p>
GFSK/MCH	<p> Ref 20 dBm -Att 20 dB -RBW 100 kHz -VBW 300 kHz -SWT 5 ms MaxKee 4 [T1] -19.08 dBm 2.441562000 GHz Offset 9.1 dB Offset 1 1.02 dBm 2.441640000 GHz Offset 3 1.02 dBm 2.440430000 GHz Temp 1 (T1) 1.02 dBm Offset 2 1.02 dBm 2.440300000 GHz Temp 2 (T1) 1.02 dBm Offset 3 1.02 dBm 2.441480000 GHz Center 2.441 GHz 200 kHz/ Span 2 MHz </p>
GFSK/HCH	<p> Ref 20 dBm -Att 20 dB -RBW 100 kHz -VBW 300 kHz -SWT 5 ms MaxKee 4 [T1] -20.14 dBm 2.480562000 GHz Offset 9.8 dB Offset 1 1.28 dBm 2.480154000 GHz Offset 3 1.28 dBm 2.479430000 GHz Temp 1 (T1) 1.28 dBm Offset 2 1.28 dBm 2.479504000 GHz Temp 2 (T1) 1.28 dBm Offset 3 1.28 dBm 2.480480000 GHz Center 2.48 GHz 200 kHz/ Span 2 MHz </p>

<p>8DPSK/LCH</p>	
<p>8DPSK/MCH</p>	
<p>8DPSK/HCH</p>	

6. Carrier Frequency Separation

6.1. Block diagram of test setup

Same as section 4.1

6.2. Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

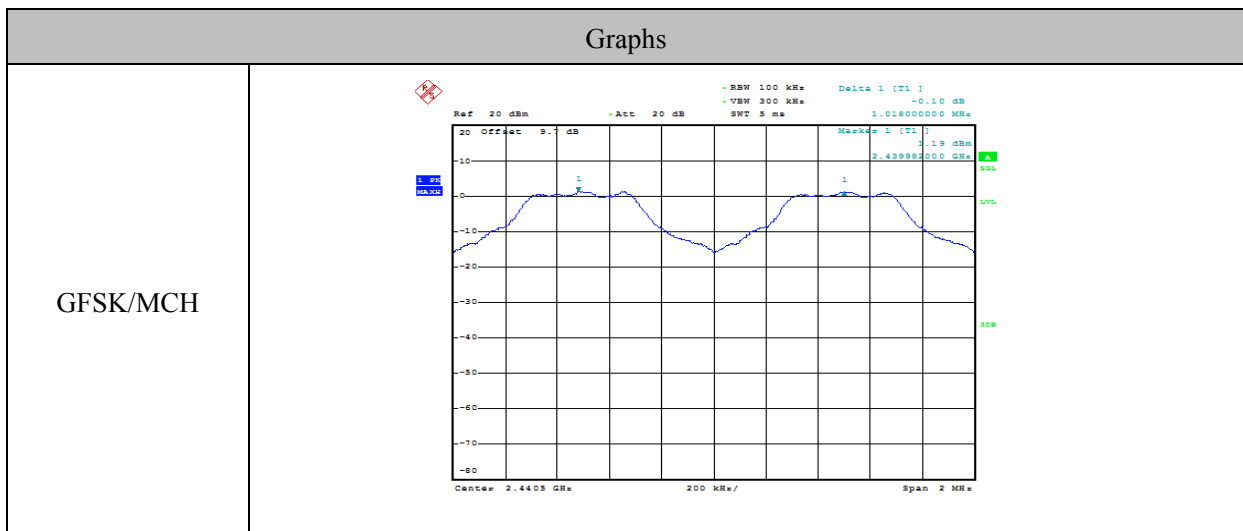
6.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The carrier frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW.

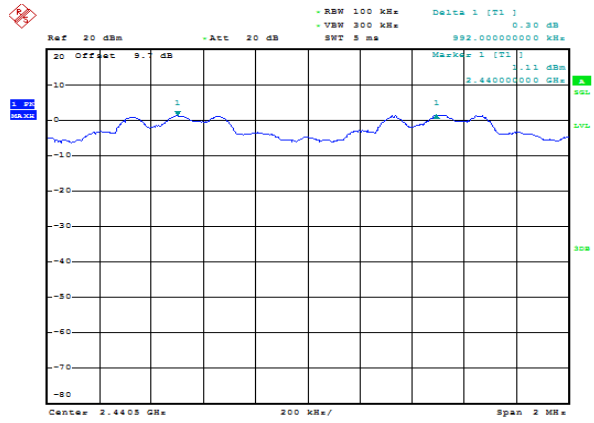
6.4. Test Result

Mode	Channel separation (MHz)	Limit (MHz) 2/3 of 20dB bandwidth	Conclusion
GFSK	1.018	≥ two-thirds of the 20 dB Bandwidth Of The Hopping Channel	PASS
8-DPSK	0.992	≥ two-thirds of the 20 dB Bandwidth Of The Hopping Channel	PASS

6.5. Original test data



8DPSK/MCH



7. Number Of Hopping Channel

7.1. Block diagram of test setup

Same as section 4.1

7.2. Limits

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

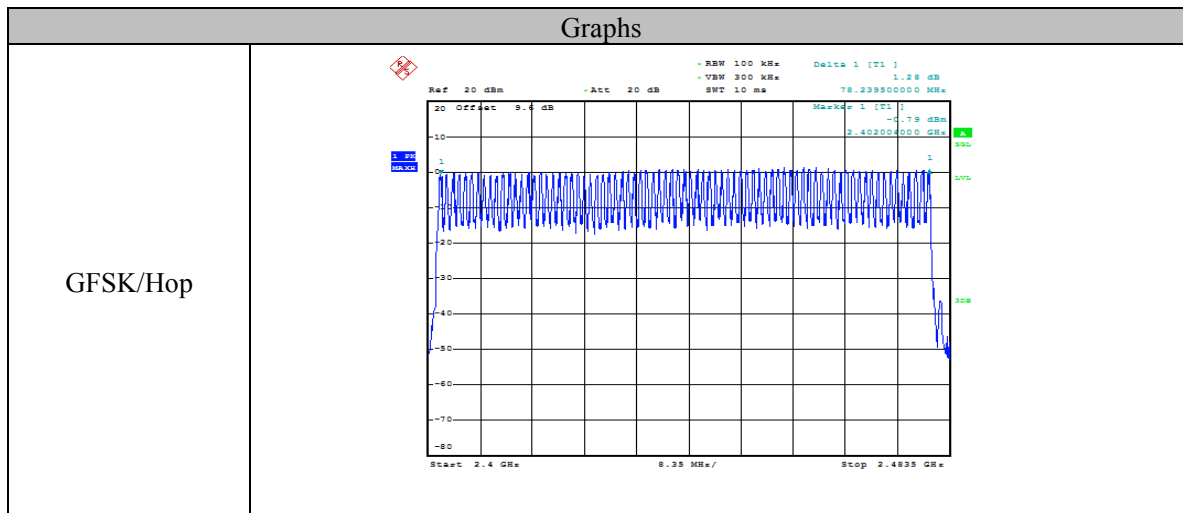
7.3. Test Procedure

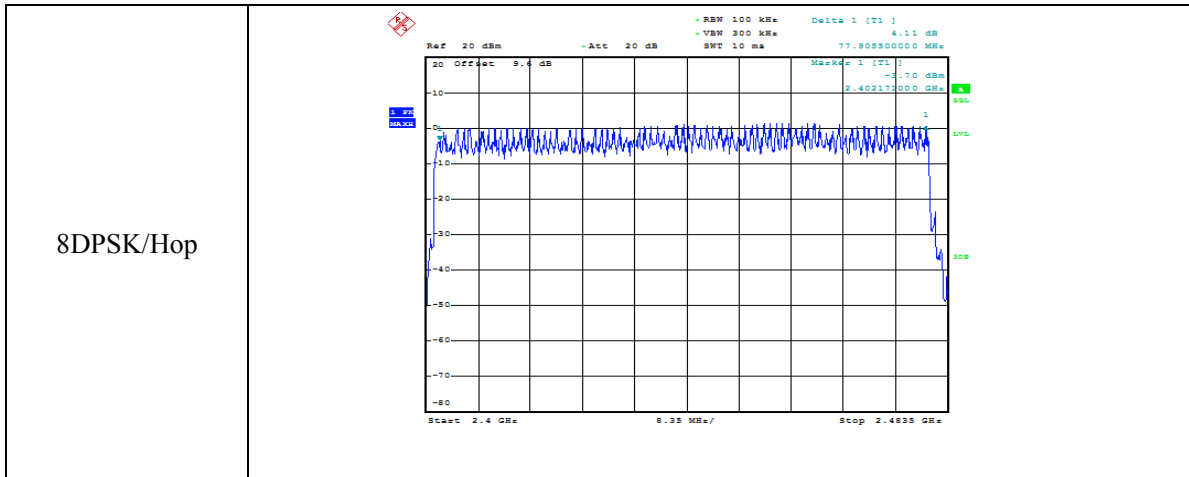
- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The number of hopping channel was measured by spectrum analyzer with 100 kHz RBW and 300KHz VBW.

7.4. Test Result

Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
8-DPSK	79	>15	PASS

7.5. Original test data





8. Dwell Time

8.1. Block diagram of test setup

Same as section 4.1

8.2. Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

8.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Measure the hopping number and on time of each pulse with spectrum analyzer in zero span set, and calculate dwell time with formula Dwell time = total hops * pulse's on time.

DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot RX, 1 time slot TX). So, total hops is $10.12 \times 31.6 = 320$.

DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). So, total hops is $5.06 \times 31.6 = 160$.

DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So, total hops is $3.37 \times 31.6 = 106.6$.

3DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot RX, 1 time slot TX). So, total hops is $10.12 \times 31.6 = 320$.

3DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). So, total hops is $5.06 \times 31.6 = 160$.

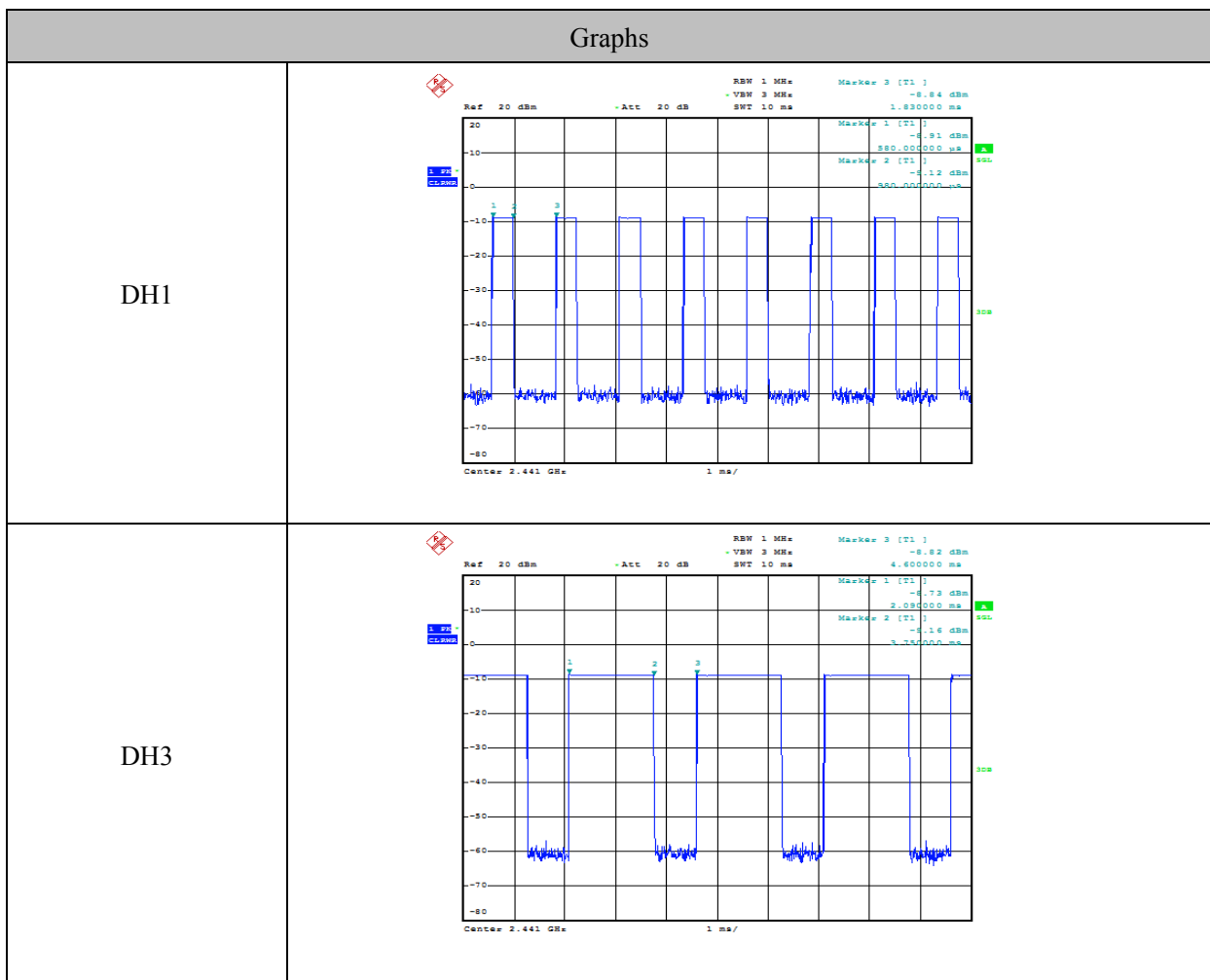
3DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So, total hops is $3.37 \times 31.6 = 106.6$.

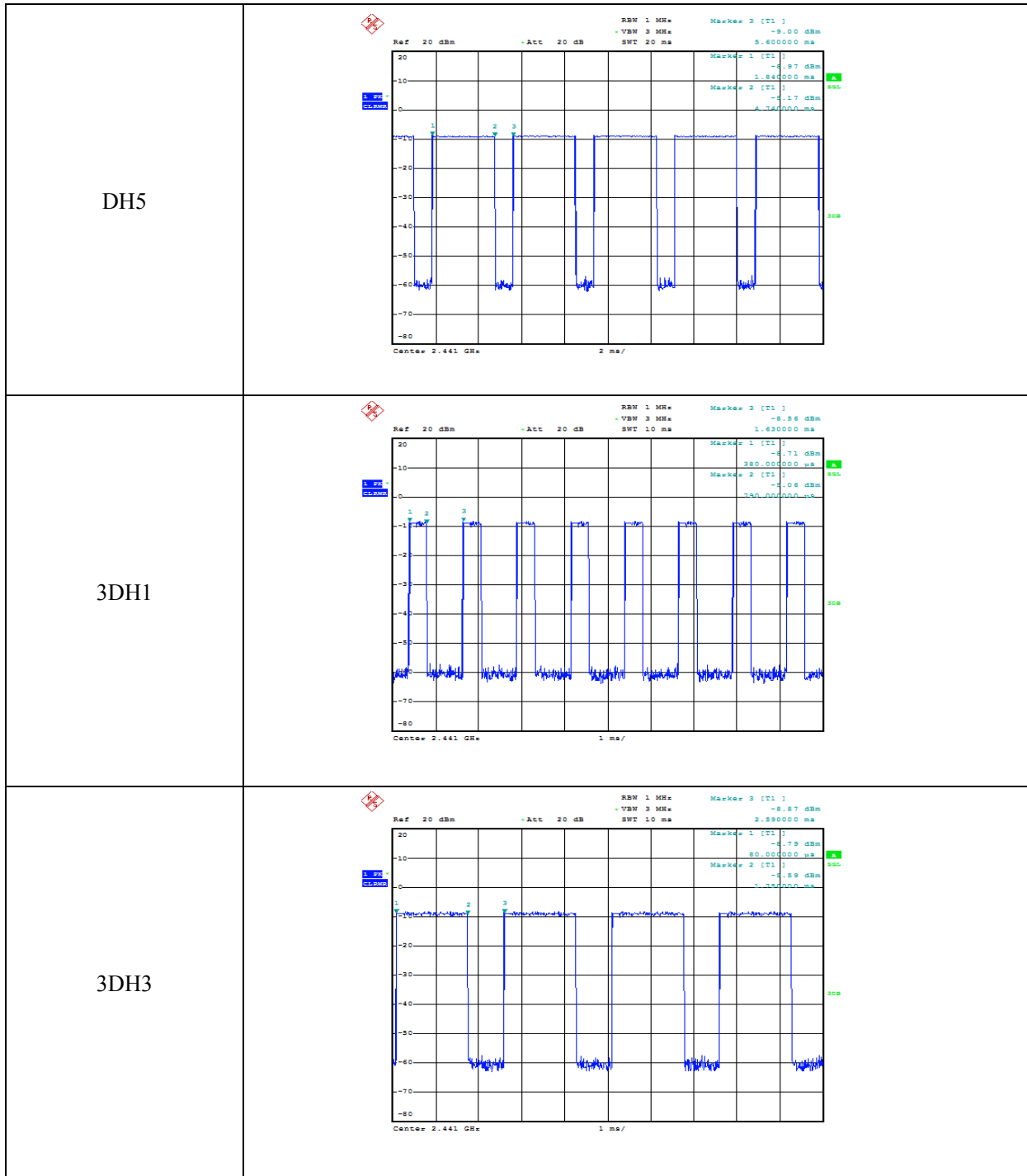
8.4. Test Result

Mode	Dwell time (s)	Pulse's on time (ms)	Total hops	Limit	Conclusion
DH1	0.128	0.4	320	<400ms	PASS
DH3	0.266	1.66	160	<400ms	PASS
DH5	0.309	2.9	106.6	<400ms	PASS
3-DH1	0.131	0.41	320	<400ms	PASS
3-DH3	0.267	1.67	160	<400ms	PASS
3-DH5	0.309	2.9	106.6	<400ms	PASS

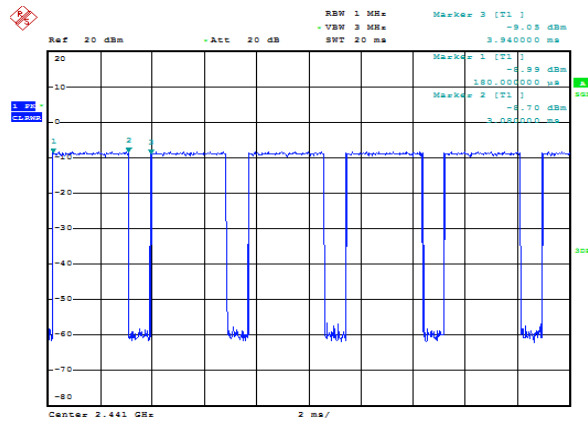
Note: Dwell time = total hops *pulse's on time.

8.5. Original test data





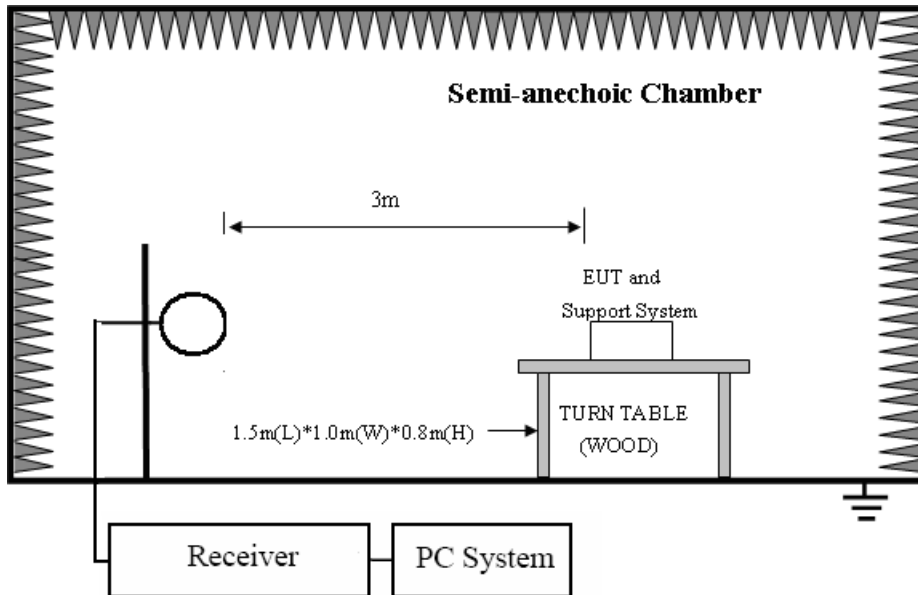
3DH5



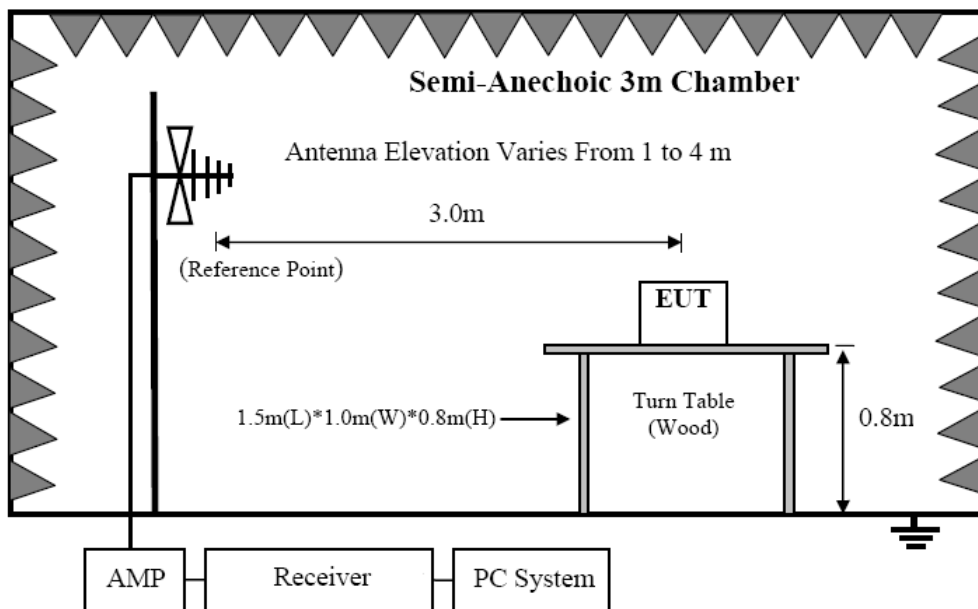
9. Radiated emission

9.1. Block diagram of test setup

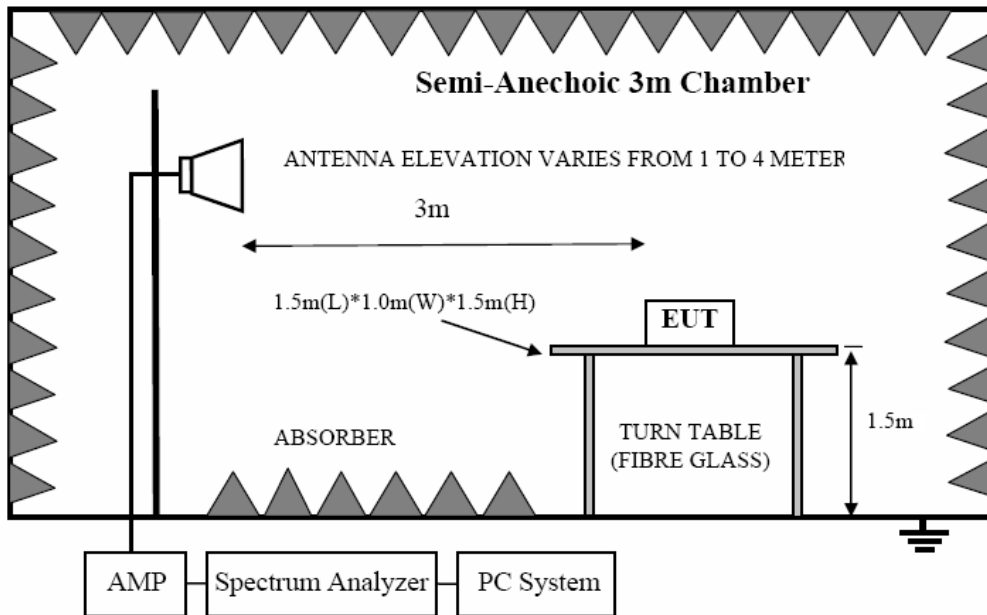
In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

9.2. Limit

9.2.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

9.2.2 FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(KHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(KHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
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	74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)
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Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m)$$

9.2.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 150 cm above the ground plane inside a semi-anechoic chamber.
- (2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Trilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.
- (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces

highest emissions.

Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (5) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz,110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RMS detector RBW 1MHz VBW 3MHz for Average measure(according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure).
- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

9.4. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9 KHz to 25GHz were comply with 15.209 limits.

Note1: According exploratory test no any obvious emission were detected from 9KHz to 30MHz and 18GHz to 25GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.

Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in GFSK, Tx 2441MHz mode.

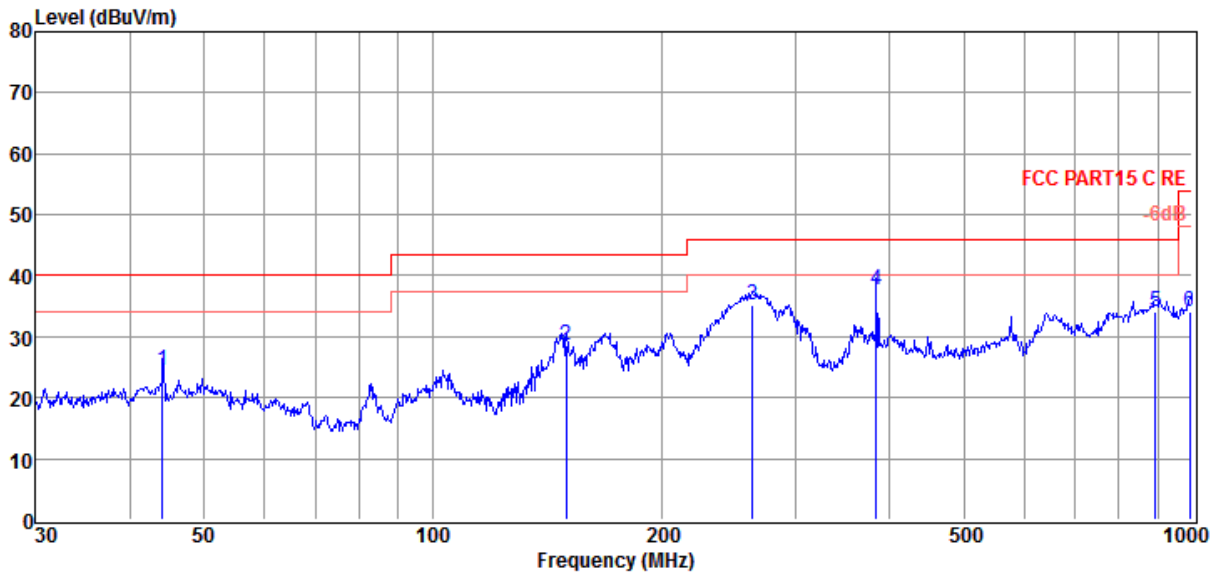
Note3: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber	E:\2017 RE2# Report Data\17Q0313-9\RE.EM6
Test Date	: 2017-05-11	Tested By : Xuemin
EUT	: Cruiser Deluxe Turntable	Model Number : CR8005D
Power Supply	: AC 120V/60Hz	Test Mode : Tx mode
Condition	: Temp:24.5°C,Humi:55%, Press:100.1kPa	Antenna/Distance : 2016 VULB9163 2#/3m/HORIZONTAL
Memo	:	

Data: 5



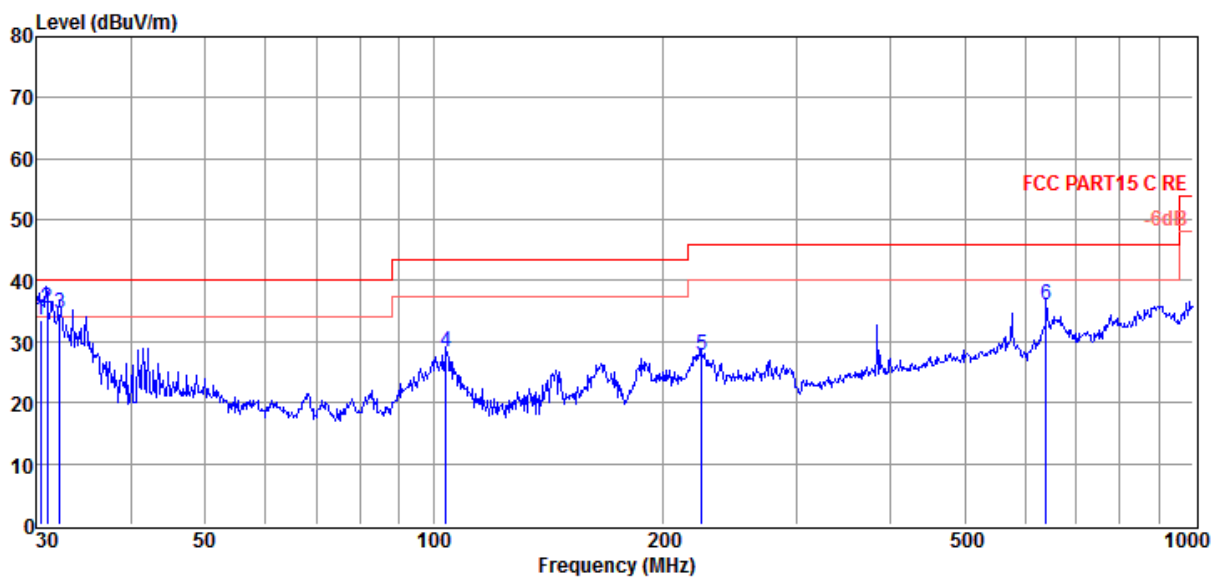
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	44.12	7.89	12.91	3.53	24.33	40.00	-15.67	QP	HORIZONTAL
2	150.01	17.04	7.36	4.23	28.63	43.50	-14.87	QP	HORIZONTAL
3	263.82	18.09	12.45	4.71	35.25	46.00	-10.75	QP	HORIZONTAL
4	383.93	17.44	15.04	5.18	37.66	46.00	-8.34	QP	HORIZONTAL
5	893.86	4.77	22.70	6.65	34.12	46.00	-11.88	QP	HORIZONTAL
6	993.01	4.10	23.26	6.86	34.22	54.00	-19.78	QP	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber	E:\2017 RE2# Report Data\17Q0313-9\RE.EM6
Test Date	: 2017-05-11	Tested By : Xuemin
EUT	: Cruiser Deluxe Turntable	Model Number : CR8005D
Power Supply	: AC 120V/60Hz	Test Mode : Tx mode
Condition	: Temp:24.5°C,Humi:55%, Press:100.1kPa	Antenna/Distance : 2016 VULB9163 2#/3m/VERTICAL
Memo	:	

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	30.33	21.01	9.00	3.40	33.41	40.00	-6.59	QP	VERTICAL
2	30.96	22.00	10.03	3.41	35.44	40.00	-4.56	QP	VERTICAL
3	32.18	21.17	10.15	3.41	34.73	40.00	-5.27	QP	VERTICAL
4	103.81	13.00	11.22	4.02	28.24	43.50	-15.26	QP	VERTICAL
5	225.31	11.89	11.30	4.53	27.72	46.00	-18.28	QP	VERTICAL
6	640.61	8.74	21.27	5.96	35.97	46.00	-10.03	QP	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

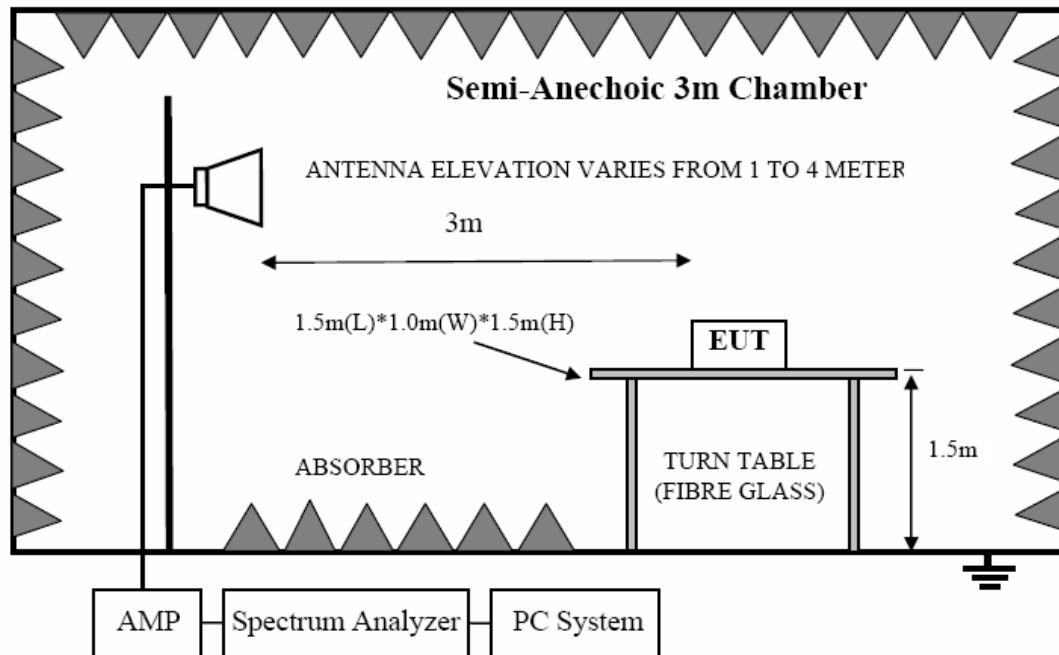
Freq (MHz)	Read level (dB μ V)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector type	Polarization
GFSK Tx mode 2402MHz									
6019.00	36.55	35.03	29.20	9.69	52.07	74.00	-21.93	Peak	HORIZONTAL
7643.00	36.20	36.63	30.94	10.94	52.83	74.00	-21.17	Peak	HORIZONTAL
4804.00	37.88	33.74	29.32	8.48	50.78	54.00	-3.22	Average	VERTICAL
4804.00	44.40	33.74	29.32	8.48	57.30	74.00	-16.70	Peak	VERTICAL
6852.00	36.50	36.08	30.28	10.30	52.60	74.00	-21.40	Peak	VERTICAL
GFSK Tx mode 2441MHz									
4882.00	40.57	33.72	29.33	8.56	53.52	74.00	-20.48	Peak	HORIZONTAL
6201.00	36.55	35.33	29.36	9.78	52.30	74.00	-21.70	Peak	HORIZONTAL
7664.00	37.22	36.63	30.96	10.95	53.84	74.00	-20.16	Peak	HORIZONTAL
4881.00	37.90	33.72	29.33	8.56	50.85	54.00	-3.15	Average	VERTICAL
4882.00	44.15	33.72	29.33	8.56	57.10	74.00	-16.90	Peak	VERTICAL
6691.00	37.13	35.96	30.14	10.14	53.09	74.00	-20.91	Peak	VERTICAL
GFSK Tx mode 2480MHz									
4960.00	40.47	33.71	29.34	8.63	53.47	74.00	-20.53	Peak	VERTICAL
6313.00	36.53	35.51	29.49	9.85	52.40	74.00	-21.60	Peak	VERTICAL
4960.00	39.66	33.71	29.34	8.63	52.66	74.00	-21.34	Peak	HORIZONTAL
7720.00	36.87	36.64	30.99	10.98	53.50	74.00	-20.50	Peak	HORIZONTAL
Result: Pass									

Note: 1.30MHz~18GHz: (Scan with GFSK, $\pi/4$ QPSK, 8-DPSK, the worst case is GFSK Mode)

2. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

10. Band Edge Compliance (radiated method)

10.1. Block diagram of test setup



10.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB below the fundamental.

10.3. Test Procedure

Same with clause 9.3 except change investigated frequency range from 2310MHz to 2415MHz and 2475MHz to 2500MHz.

Remark: All restriction band have been tested, and only the worse case is shown in report.

10.4. Test result

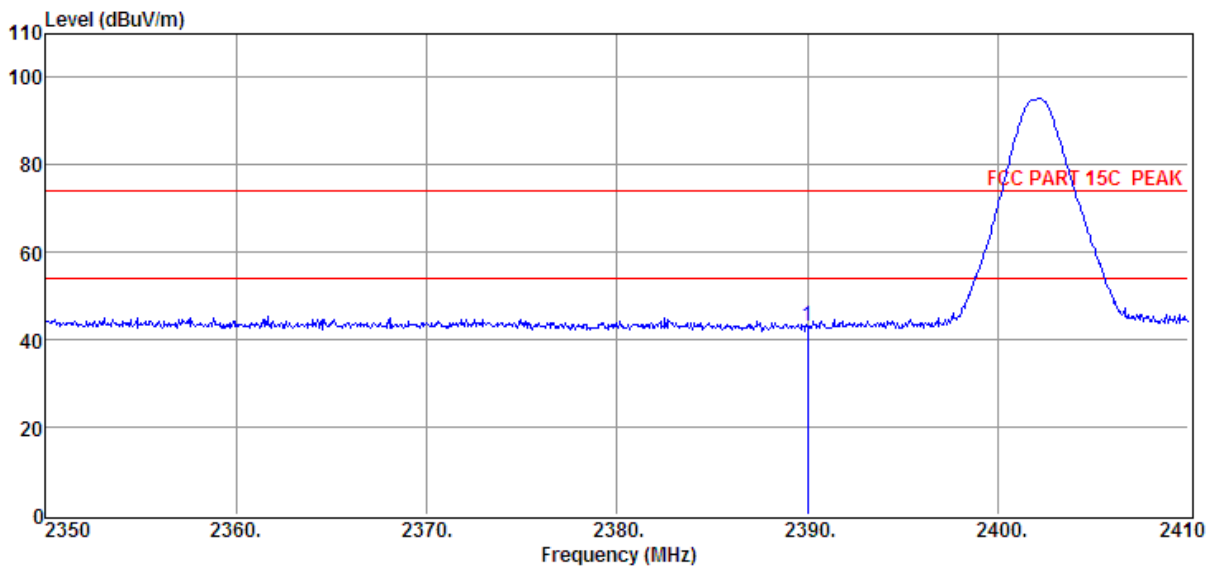
PASS. (See below detailed test result)

Remark: hopping on and hopping off mode all have been test, hopping off mode is worse and reported only.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber D:\2017 RE1# Test Data\17Q0313-9\RF.EM6
Test Date : 2017-05-11 **Tested By** : Rain
EUT : Cruiser Deluxe Turntable **Model Number** : CR8005D
Power Supply : AC 120V/60HZ **Test Mode** : Tx Mode
Condition : Temp:24.5°C,Humi:55%,
 Press:100.1kPa **Antenna/Distance** : 2016 HF907/3m/VERTICAL
Memo : GFSK 2402

Data: 3



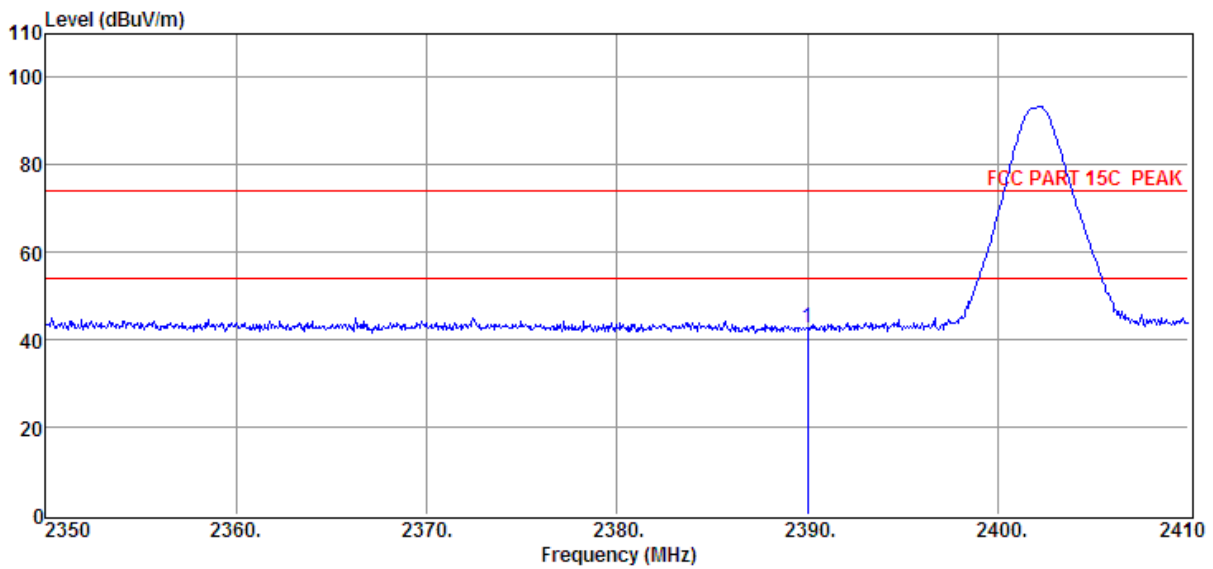
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	36.74	29.78	29.41	6.01	43.12	74.00	-30.88	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber	Tested By	: Rain
Test Date	: 2017-05-11	Model Number	: CR8005D
EUT	: Cruiser Deluxe Turntable	Test Mode	: Tx Mode
Power Supply	: AC 120V/60HZ	Antenna/Distance	: 2016 HF907/3m/HORIZONTAL
Condition	: Temp:24.5°C,Humi:55%, Press:100.1kPa		
Memo	: GFSK 2402		

Data: 4



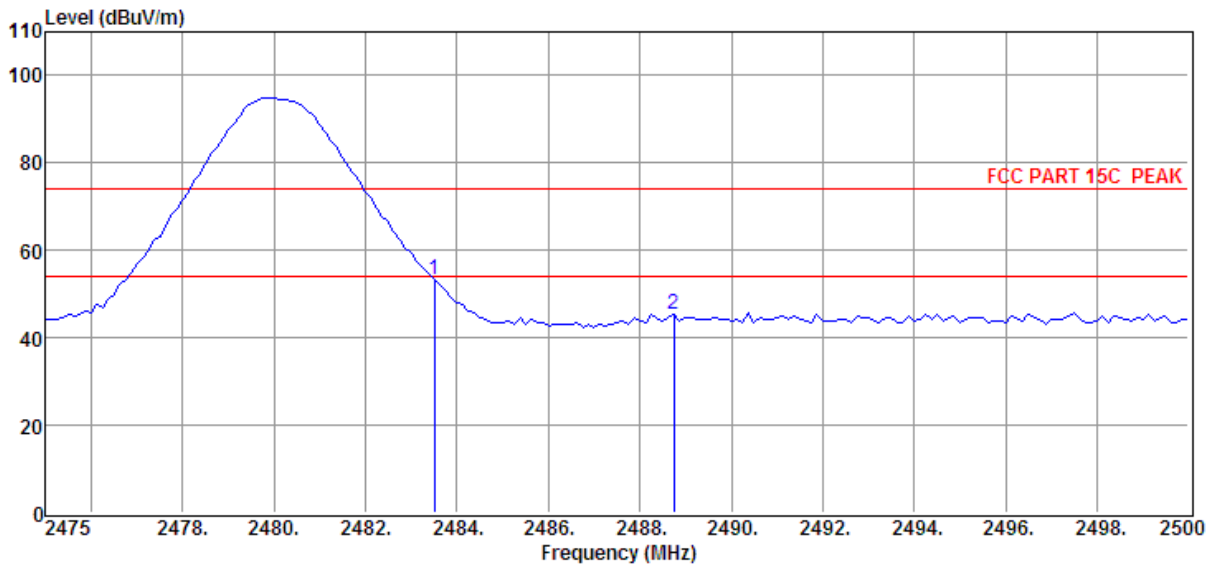
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	36.27	29.78	29.41	6.01	42.65	74.00	-31.35	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber D:\2017 RE1# Test Data\17Q0313-9\RF.EM6
Test Date : 2017-05-11 **Tested By** : Rain
EUT : Cruiser Deluxe Turntable **Model Number** : CR8005D
Power Supply : AC 120V/60HZ **Test Mode** : Tx Mode
Condition : Temp:24.5°C,Humi:55%,
 Press:100.1kPa **Antenna/Distance** : 2016 HF907/3m/VERTICAL
Memo : GFSK 2480

Data: 9



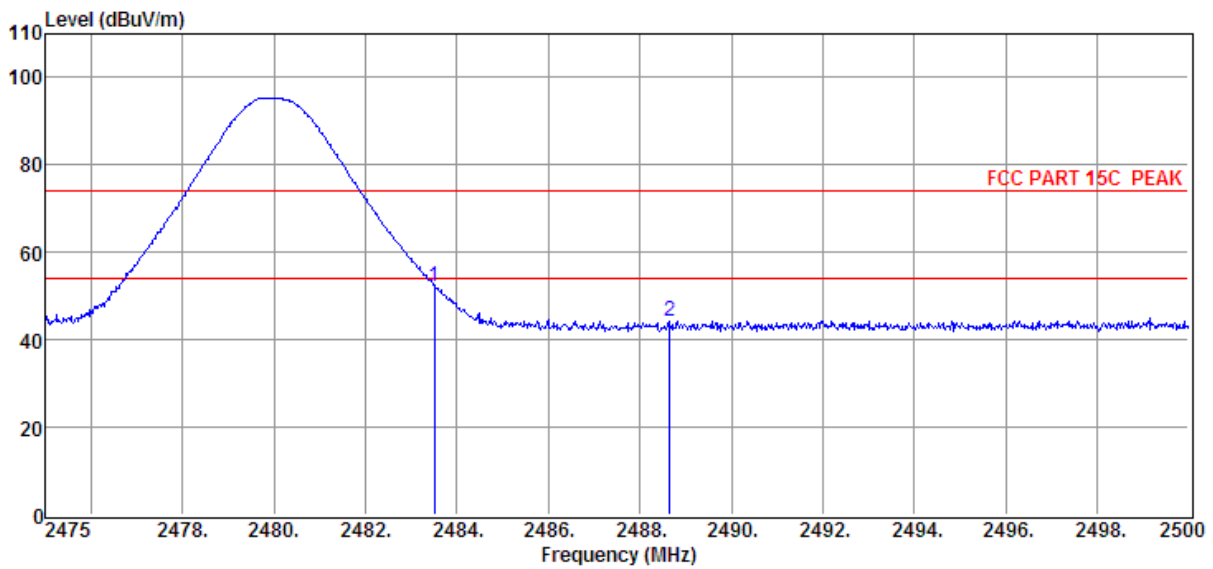
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	46.85	30.14	29.71	6.15	53.43	74.00	-20.57	Peak	VERTICAL
2	2488.75	38.91	30.16	29.71	6.15	45.51	74.00	-28.49	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber	Tested By	: Rain
Test Date	: 2017-05-11	Model Number	: CR8005D
EUT	: Cruiser Deluxe Turntable	Test Mode	: Tx Mode
Power Supply	: AC 120V/60HZ	Antenna/Distance	: 2016 HF907/3m/HORIZONTAL
Condition	: Temp:24.5°C,Humi:55%, Press:100.1kPa		
Memo	: GFSK 2480		

Data: 10



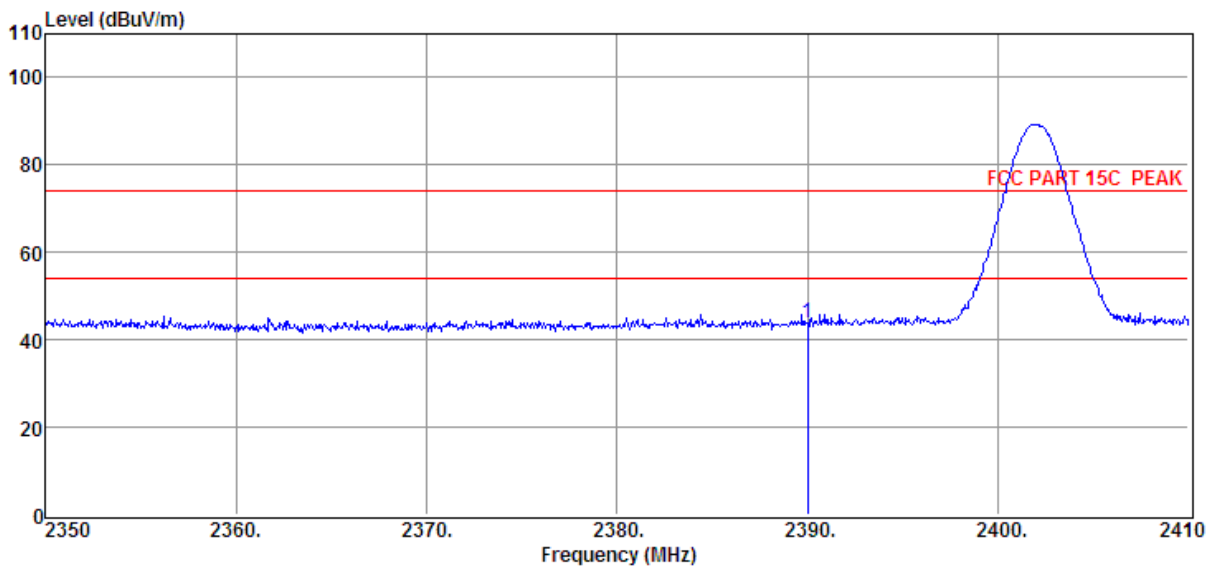
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	45.77	30.14	29.71	6.15	52.35	74.00	-21.65	Peak	HORIZONTAL
2	2488.65	37.59	30.16	29.71	6.15	44.19	74.00	-29.81	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber D:\2017 RE1# Test Data\17Q0313-9\RF.EM6
Test Date : 2017-05-11 **Tested By** : Rain
EUT : Cruiser Deluxe Turntable **Model Number** : CR8005D
Power Supply : AC 120V/60HZ **Test Mode** : Tx Mode
Condition : Temp:24.5°C,Humi:55%,
 Press:100.1kPa **Antenna/Distance** : 2016 HF907/3m/VERTICAL
Memo : 8-DPSK 2402

Data: 11



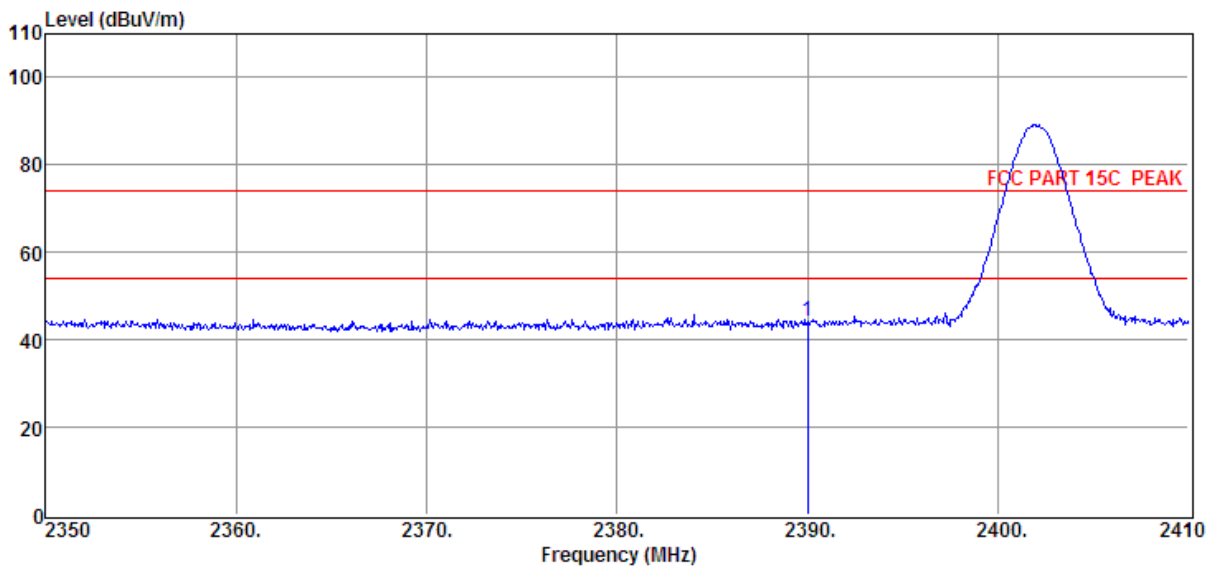
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	37.32	29.78	29.41	6.01	43.70	74.00	-30.30	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber D:\2017 RE1# Test Data\17Q0313-9\RF.EM6
Test Date : 2017-05-11 **Tested By** : Rain
EUT : Cruiser Deluxe Turntable **Model Number** : CR8005D
Power Supply : AC 120V/60HZ **Test Mode** : Tx Mode
Condition : Temp:24.5°C,Humi:55%,
 Press:100.1kPa **Antenna/Distance** : 2016 HF907/3m/HORIZONTAL
Memo : 8-DPSK 2402

Data: 12



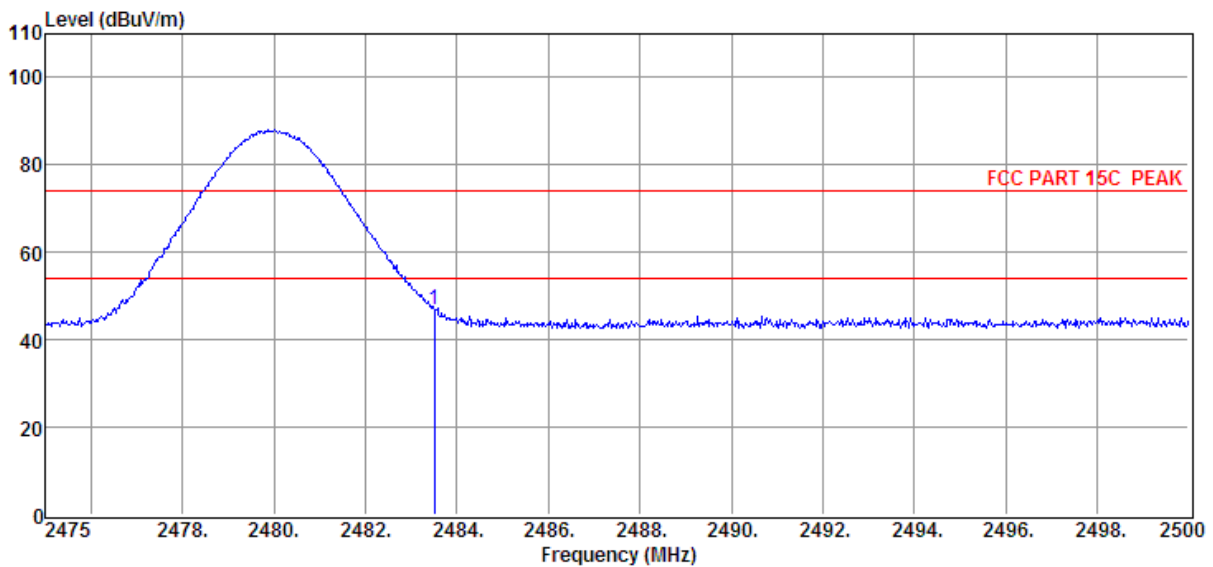
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2390.00	37.72	29.78	29.41	6.01	44.10	74.00	-29.90	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber	Tested By	: Rain
Test Date	: 2017-05-11	Model Number	: CR8005D
EUT	: Cruiser Deluxe Turntable	Test Mode	: Tx Mode
Power Supply	: AC 120V/60HZ	Antenna/Distance	: 2016 HF907/3m/HORIZONTAL
Condition	: Temp:24.5°C,Humi:55%, Press:100.1kPa		
Memo	: 8-DPSK 2480		

Data: 13



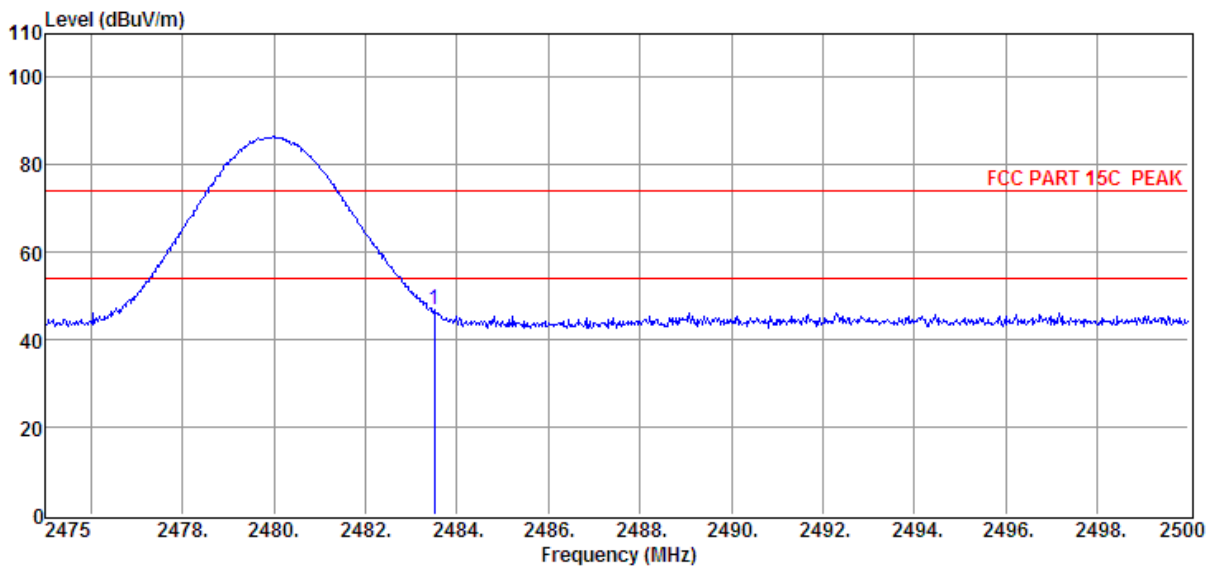
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	40.28	30.14	29.71	6.15	46.86	74.00	-27.14	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber D:\2017 RE1# Test Data\17Q0313-9\RF.EM6
Test Date : 2017-05-11 **Tested By** : Rain
EUT : Cruiser Deluxe Turntable **Model Number** : CR8005D
Power Supply : AC 120V/60HZ **Test Mode** : Tx Mode
Condition : Temp:24.5°C,Humi:55%,
 Press:100.1kPa **Antenna/Distance** : 2016 HF907/3m/VERTICAL
Memo : 8-DPSK 2480

Data: 14



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	40.27	30.14	29.71	6.15	46.85	74.00	-27.15	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

11. Band Edge Compliance (conducted method)

11.1. Block diagram of test setup

Same as section 4.1

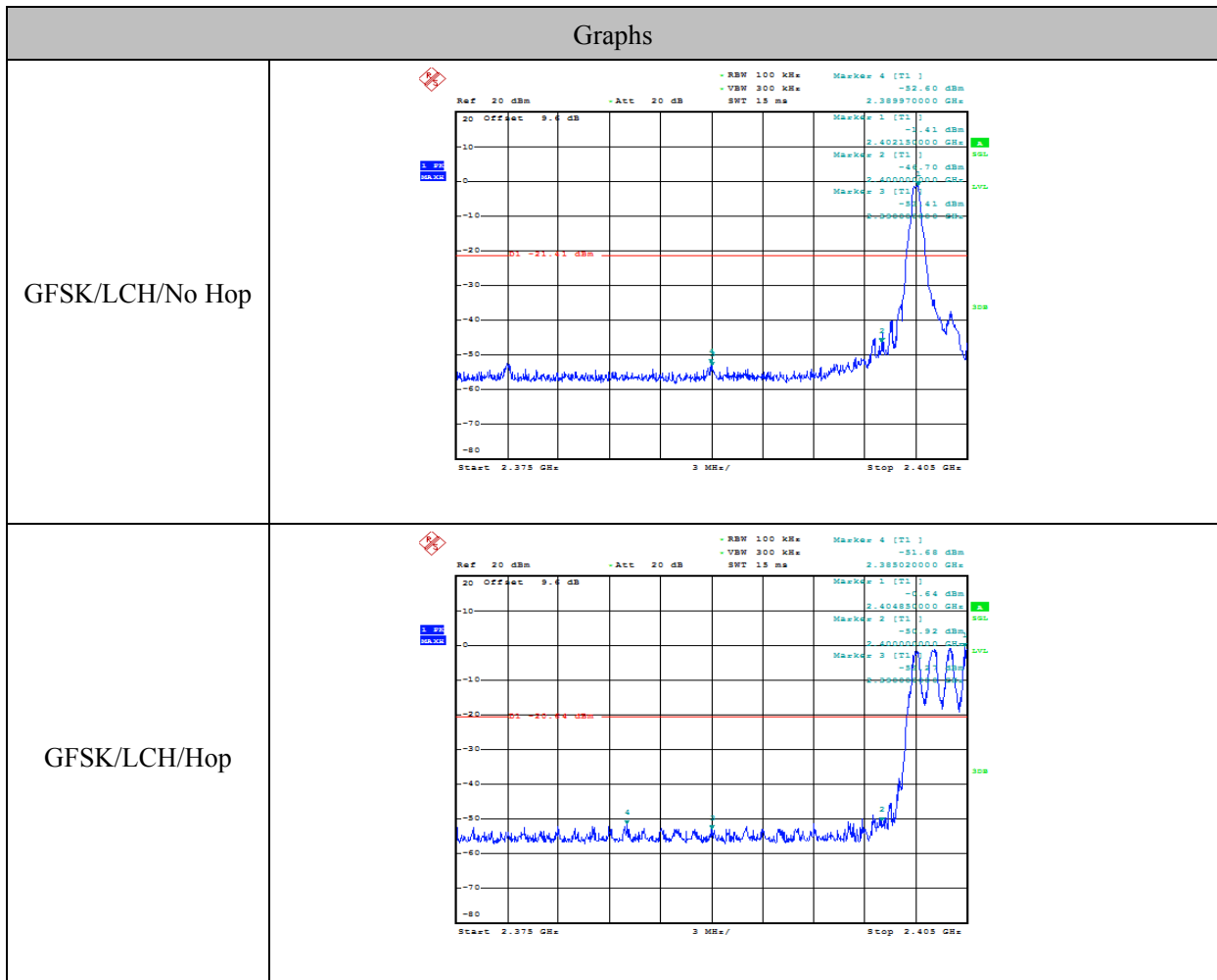
11.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB blow the fundamental.

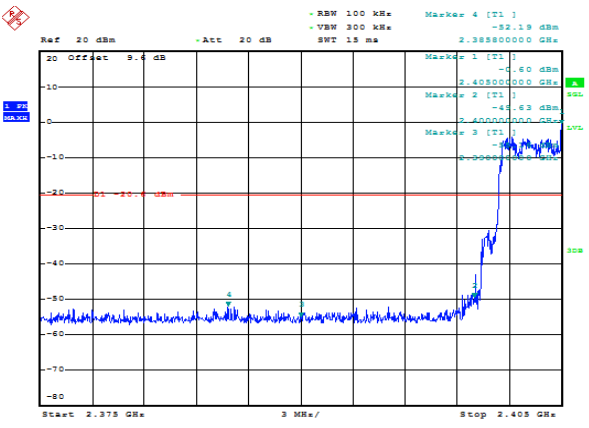
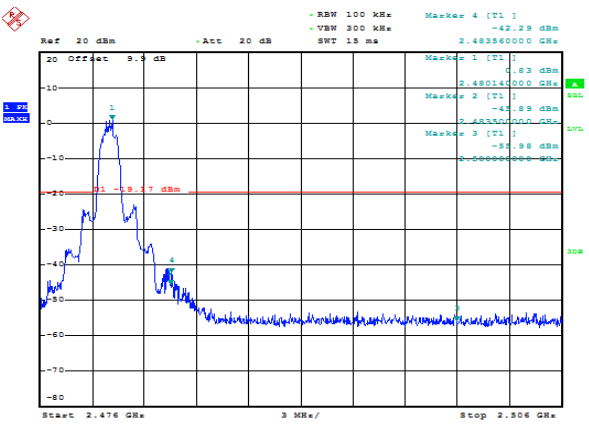
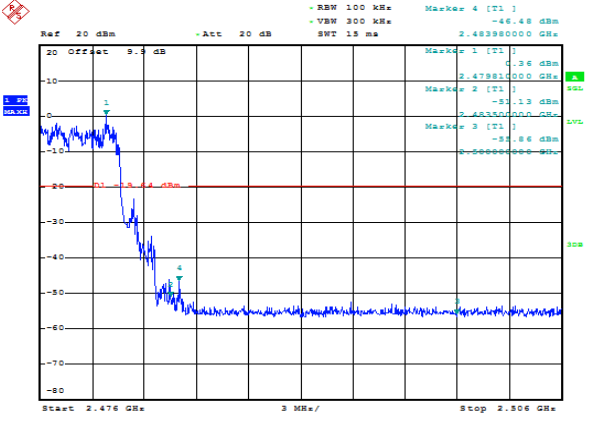
11.3. Test result

Mode	Freq (MHz)	Conclusion
GFSK	Hopping off 2402	PASS
	Hopping off 2480	PASS
	Hopping on	PASS
8-DPSK	Hopping off 2402	PASS
	Hopping off 2480	PASS
	Hopping on	PASS

11.4. Original test data

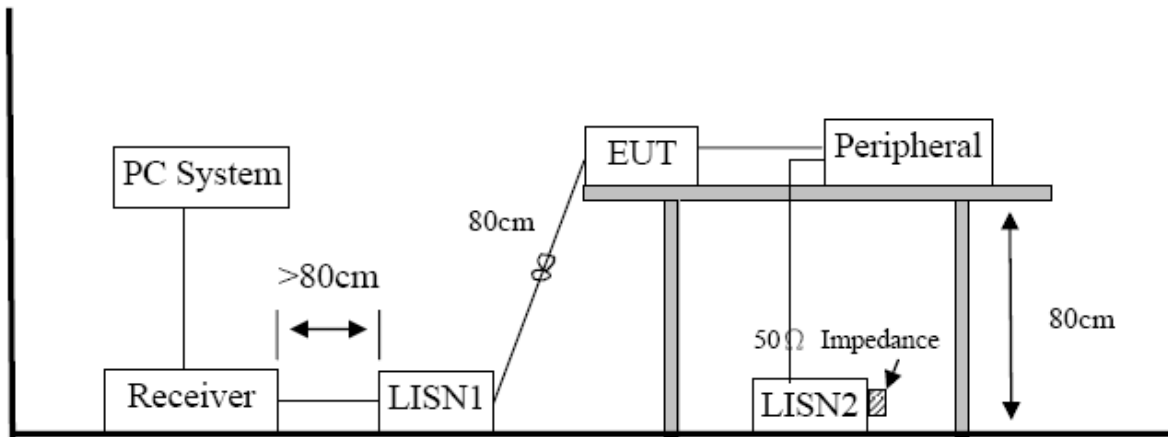


<p>GFSK/HCH/No Hop</p>	
<p>GFSK/HCH/Hop</p>	
<p>8DPSK/LCH/No Hop</p>	

<p>8DPSK/LCH/Hop</p>	
<p>8DPSK/HCH/No Hop</p>	
<p>8DPSK/HCH/Hop</p>	

12. Power Line Conducted Emission

12.1. Block diagram of test setup



12.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

12.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, 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.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

12.4. Test Result

PASS. (See below detailed test result)

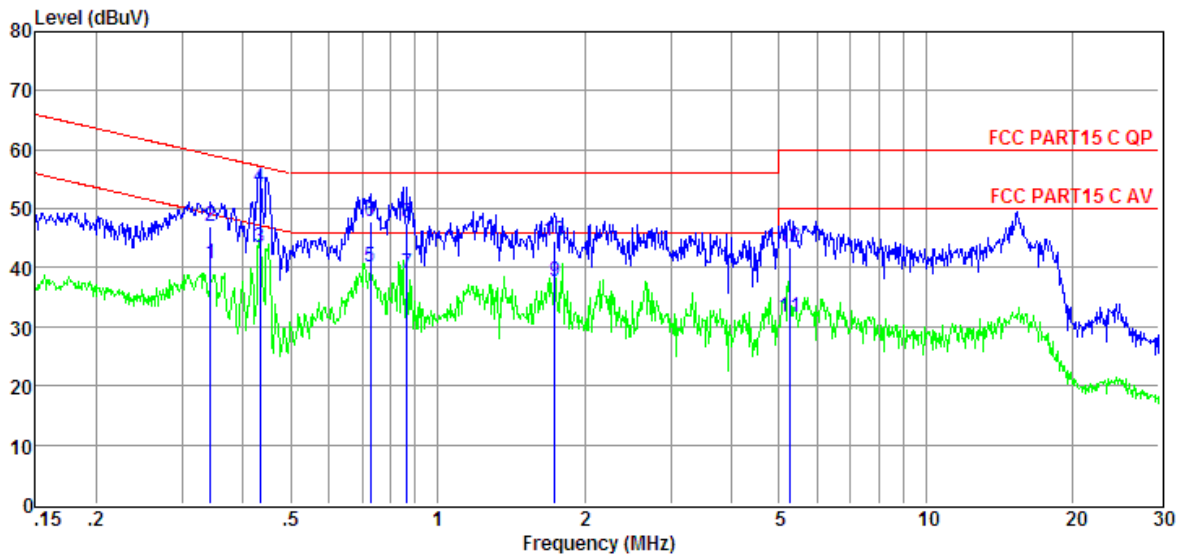
Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “----” means Peak detection; “-----” mans Average detection

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room E:\2017 CE report data\17Q0313-9\CE2.EM6
Test Date : 2017-03-14 **Tested By** : Xuemin
EUT : Suitcase Bluetooth Turntable Player **Model Number** : TT15075-9
Power Supply : AC 120V/60Hz **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
LISN : 2016 ENV216/NEUTRAL
 Press:100.1kPa

Data: 6



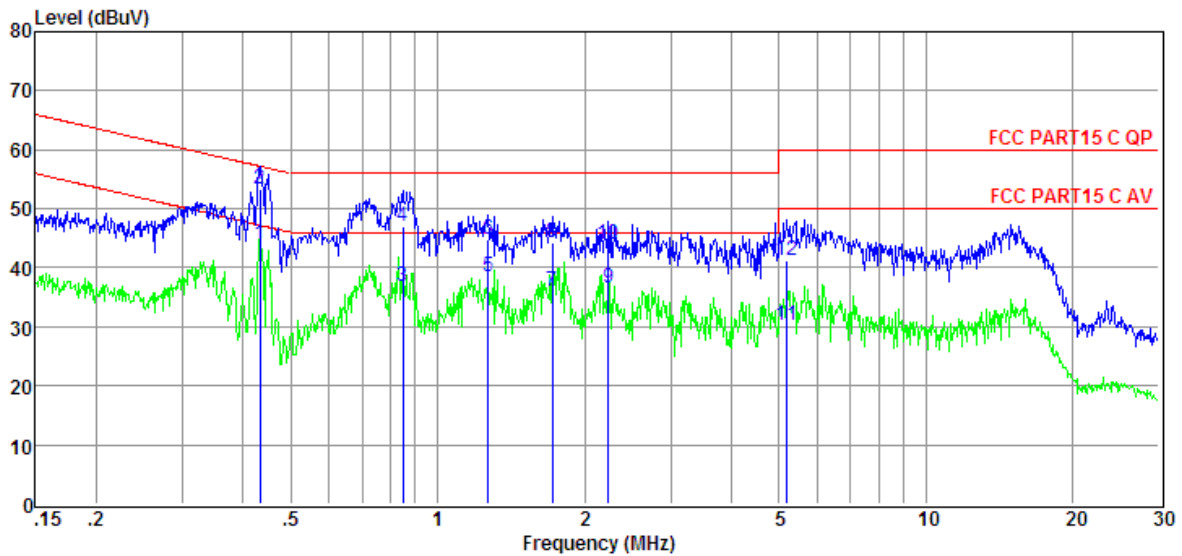
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.34	21.17	9.61	0.02	9.86	40.66	49.13	-8.47	Average	NEUTRAL
2	0.34	27.59	9.61	0.02	9.86	47.08	59.13	-12.05	QP	NEUTRAL
3	0.43	24.06	9.61	0.02	9.86	43.55	47.20	-3.65	Average	NEUTRAL
4	0.43	34.09	9.61	0.02	9.86	53.58	57.20	-3.62	QP	NEUTRAL
5	0.73	20.72	9.61	0.03	9.86	40.22	46.00	-5.78	Average	NEUTRAL
6	0.73	28.30	9.61	0.03	9.86	47.80	56.00	-8.20	QP	NEUTRAL
7	0.87	19.56	9.61	0.03	9.86	39.06	46.00	-6.94	Average	NEUTRAL
8	0.87	28.16	9.61	0.03	9.86	47.66	56.00	-8.34	QP	NEUTRAL
9	1.73	18.20	9.62	0.04	9.87	37.73	46.00	-8.27	Average	NEUTRAL
10	1.73	24.96	9.62	0.04	9.87	44.49	56.00	-11.51	QP	NEUTRAL
11	5.28	11.93	9.66	0.07	9.88	31.54	50.00	-18.46	Average	NEUTRAL
12	5.28	23.81	9.66	0.07	9.88	43.42	60.00	-16.58	QP	NEUTRAL

- Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room E:\2017 CE report data\17Q0313-9\CE2.EM6
Test Date : 2017-03-14 **Tested By** : Xuemin
EUT : Suitcase Bluetooth Turntable Player **Model Number** : TT15075-9
Power Supply : AC 120V/60Hz **Test Mode** : Tx mode
Condition : Temp:24.5°C,Humi:55%,
LISN : 2016 ENV216/LINE
Press:100.1kPa

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.43	24.55	9.61	0.02	9.86	44.04	47.20	-3.16	Average	LINE
2	0.43	33.73	9.61	0.02	9.86	53.22	57.20	-3.98	QP	LINE
3	0.85	17.41	9.61	0.03	9.86	36.91	46.00	-9.09	Average	LINE
4	0.85	27.42	9.61	0.03	9.86	46.92	56.00	-9.08	QP	LINE
5	1.27	18.84	9.62	0.03	9.86	38.35	46.00	-7.65	Average	LINE
6	1.27	25.38	9.62	0.03	9.86	44.89	56.00	-11.11	QP	LINE
7	1.72	16.48	9.62	0.04	9.86	36.00	46.00	-10.00	Average	LINE
8	1.72	24.72	9.62	0.04	9.86	44.24	56.00	-11.76	QP	LINE
9	2.24	16.97	9.64	0.04	9.87	36.52	46.00	-9.48	Average	LINE
10	2.24	24.52	9.64	0.04	9.87	44.07	56.00	-11.93	QP	LINE
11	5.19	10.69	9.66	0.07	9.88	30.30	50.00	-19.70	Average	LINE
12	5.19	21.71	9.66	0.07	9.88	41.32	60.00	-18.68	QP	LINE

- Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

13. Antenna Requirements

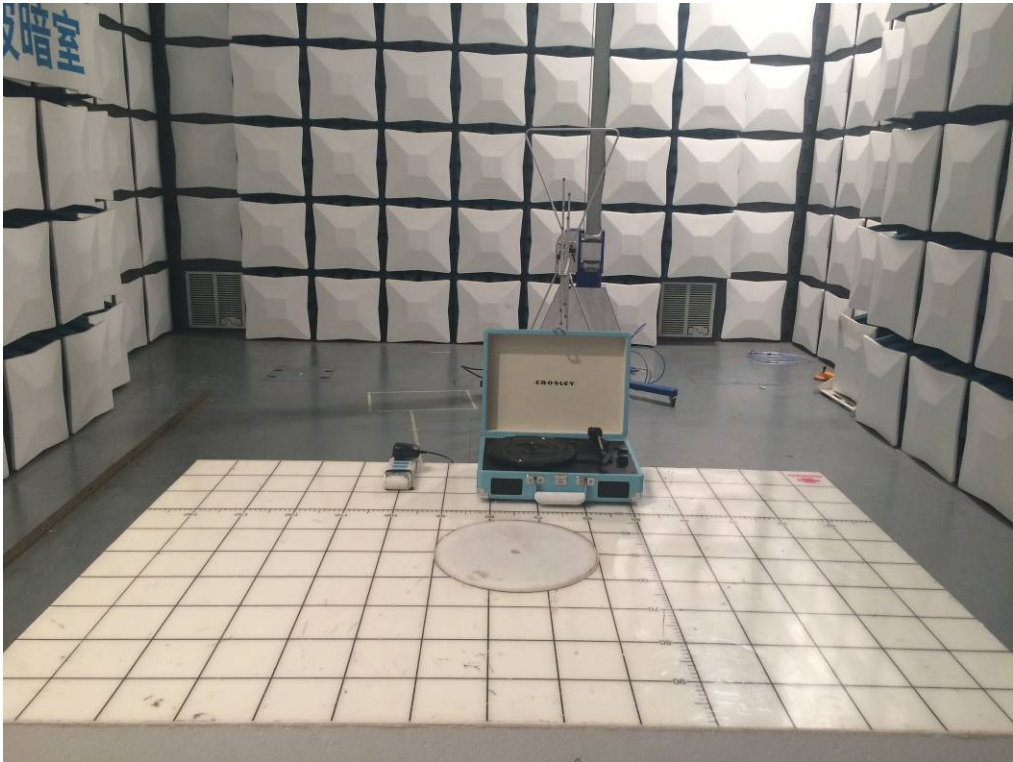
13.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

13.2. Result

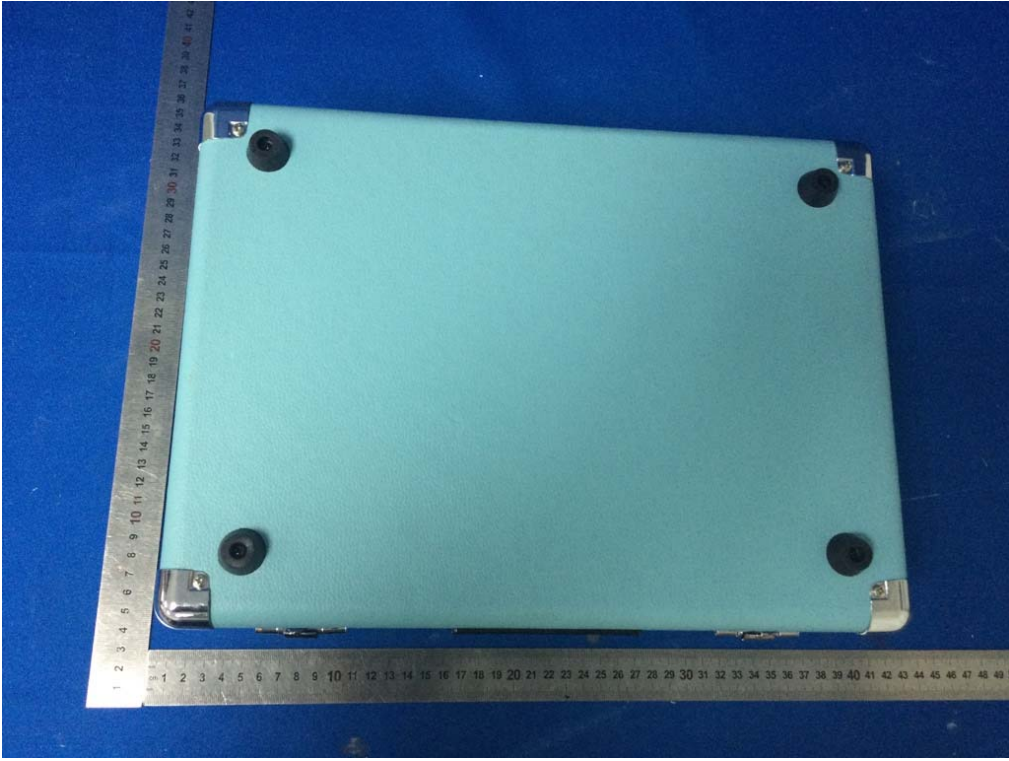
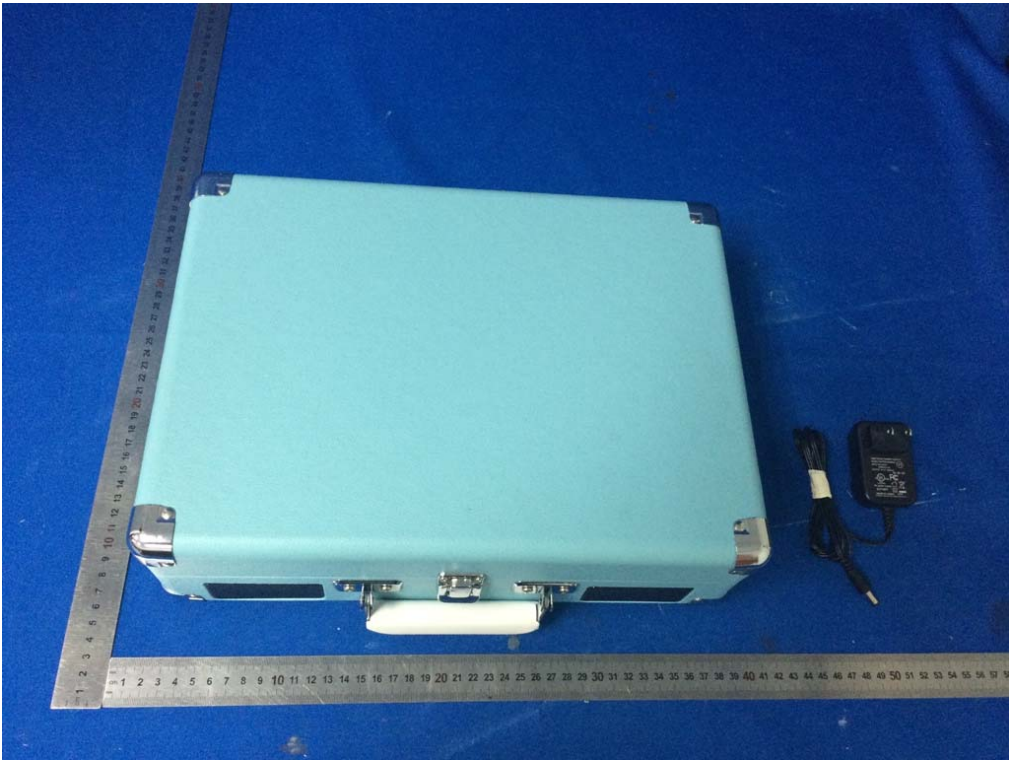
The antennas used for this product are integrated antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only -0.68dBi.

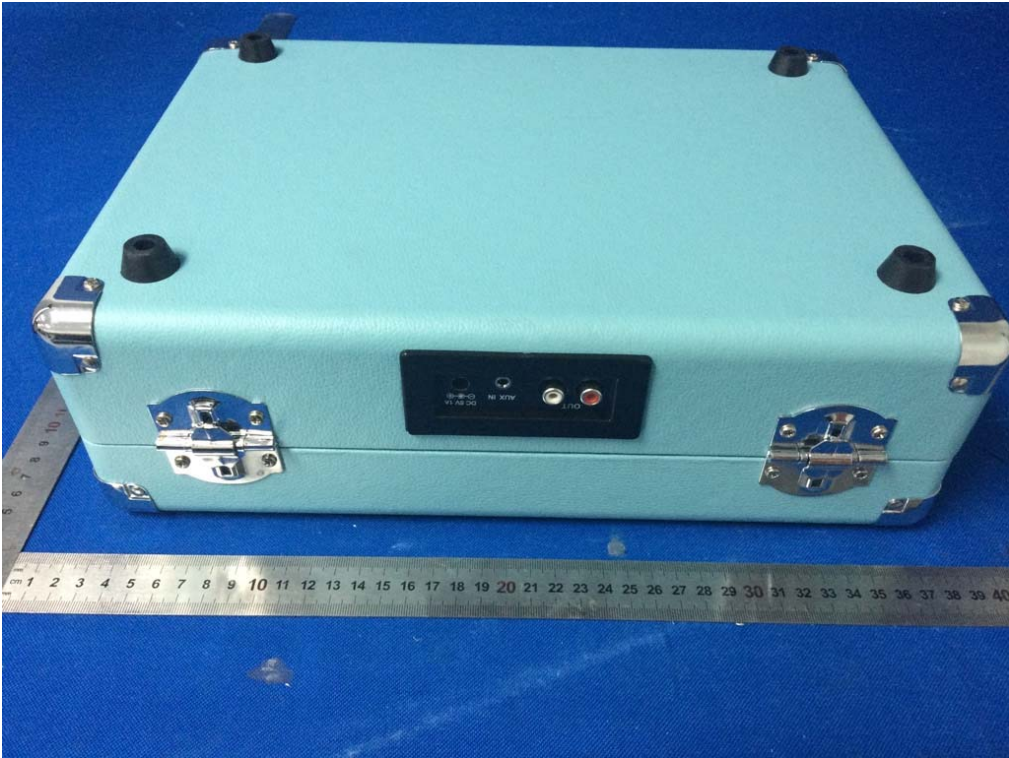
14. Test setup photograph

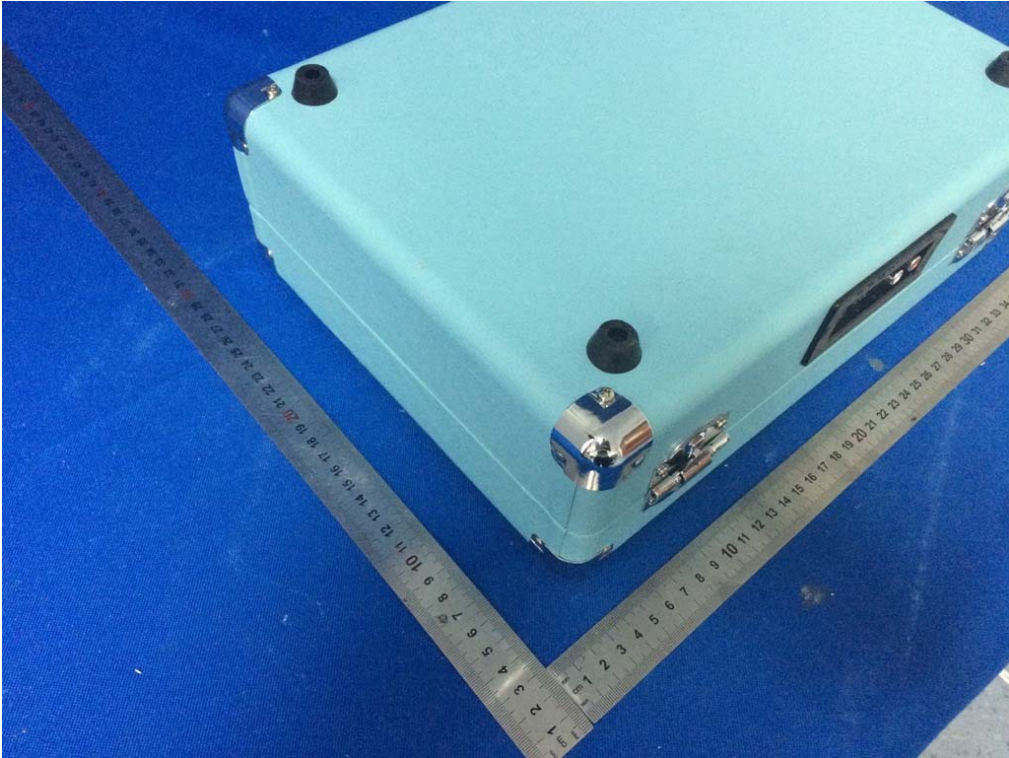




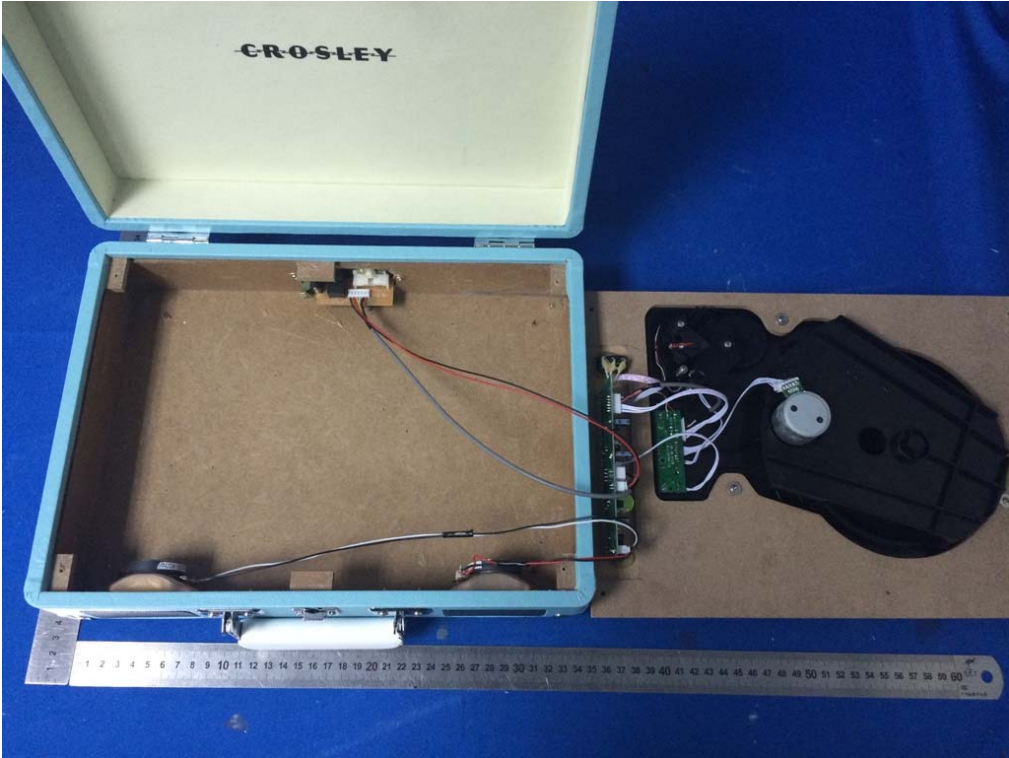
15. Photos of the EUT

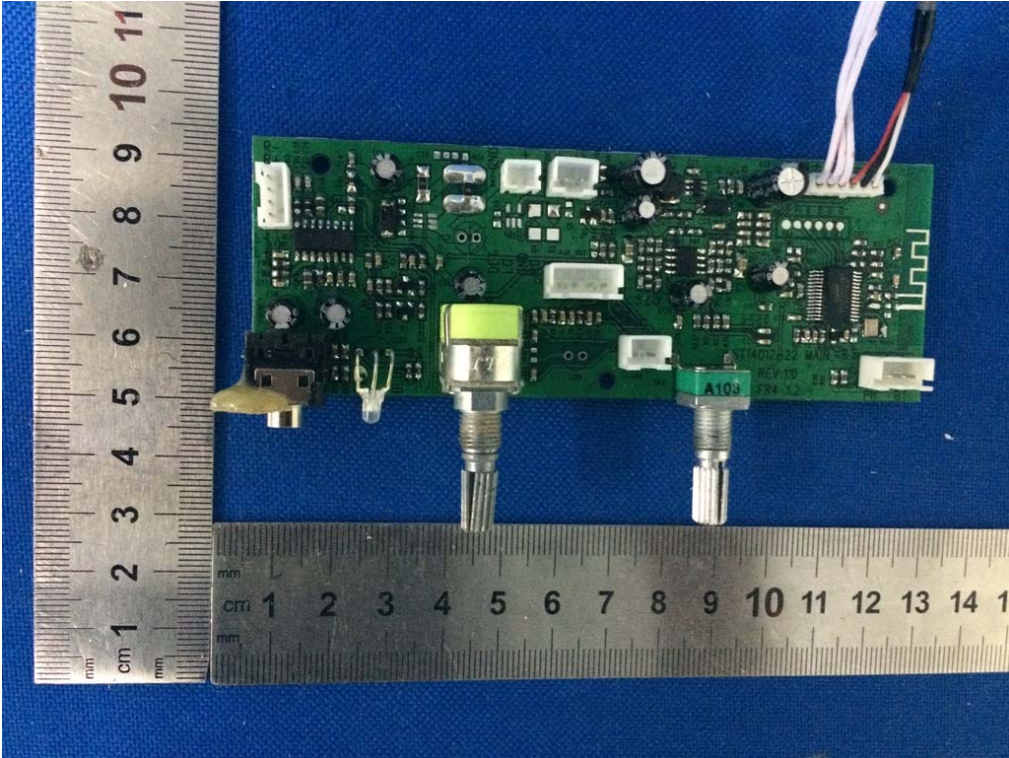
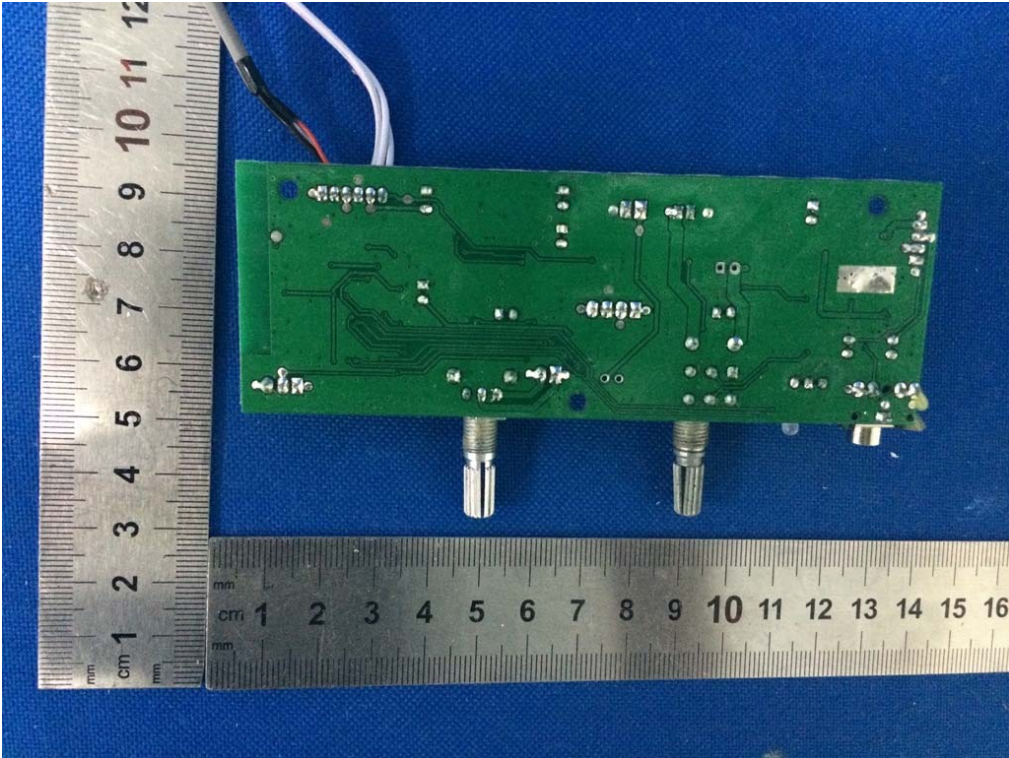


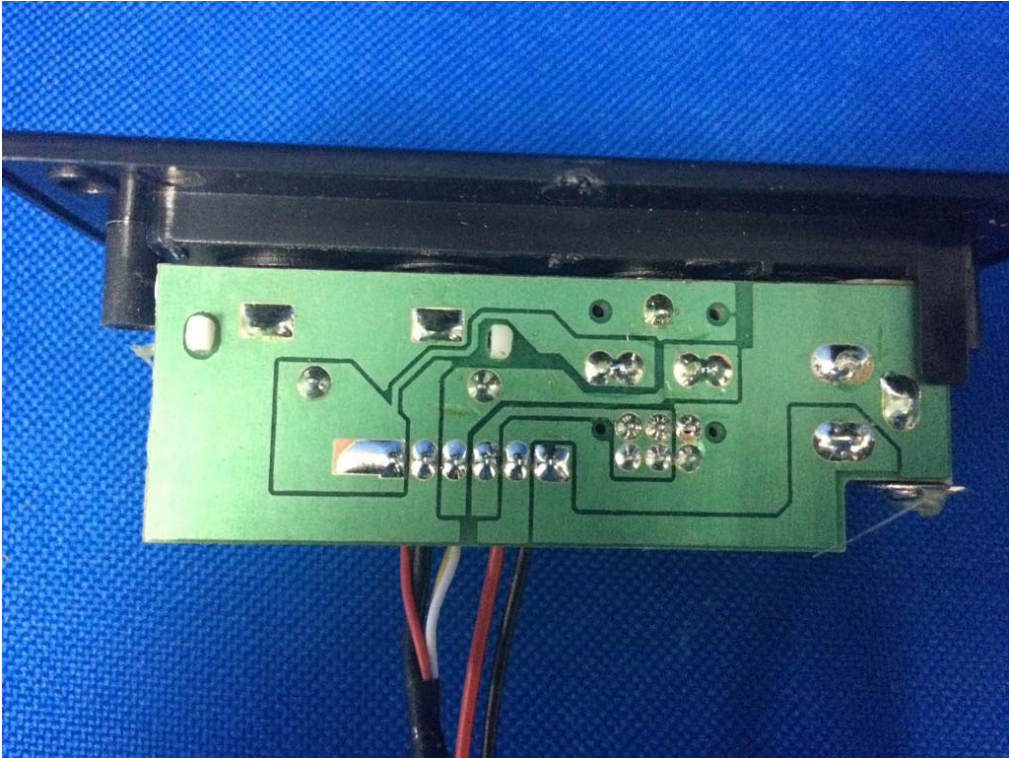
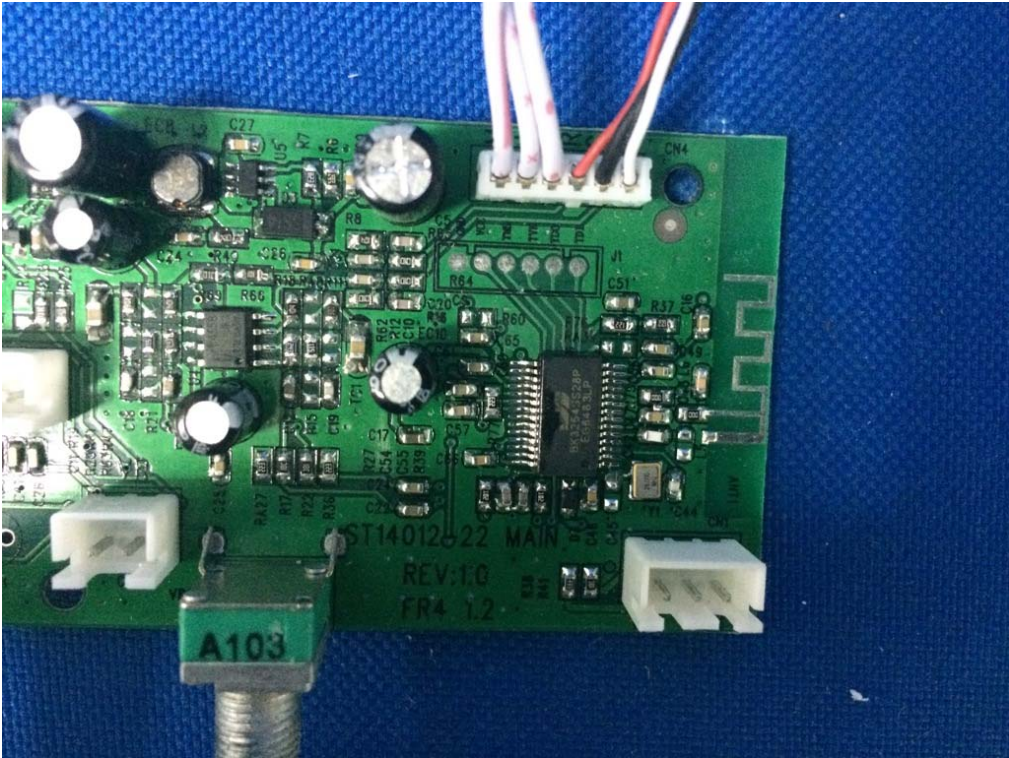


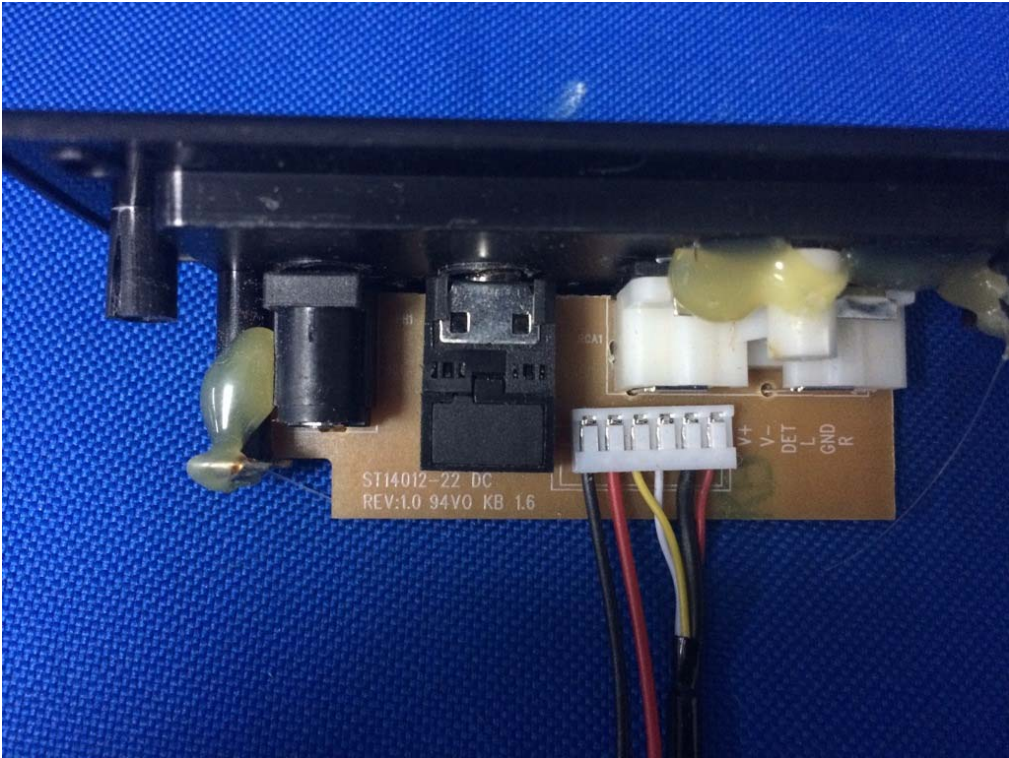












END OF REPORT