FCC Part 15C

Measurement And Test Report For

WUXI KYDZ CO.,LTD.

3F, 5 Bldg, Huaqing Creative Park, Huishan Economic Development Zone, Wuxi, Jiangsu

FCC ID: 2AE9ZTHL-5

Jun. 24, 2015

This Report Concerns: ☑ Original Report	Equipment Type: Car remote control
Report Number:	MTI150513001RF
Test Engineer:	David Chen Tim zhang
Reviewed By:	Tim Zhang
Approved & Authorized By:	Hebe Lee Hebe Lee MTI
Test Date:	May 15 - Jun. 17, 2015
Prepared By:	Shenzhen Microtest Technology Co.,Ltd 6F, Zhongbao Building, Gushu, Bao' an District, Shenzhen, P.R.China Tel: +86-755-8885 0135 Fax: +86-755-8885 0136

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1. Test Certification

Product:	Car remote control
Model No.:	THL-5
Applicant:	WUXI KYDZ CO.,LTD.
Address:	3F, 5 Bldg, Huaqing Creative Park, Huishan Economic Development Zone, Wuxi, Jiangsu.
Manufacturer:	WUXI KYDZ CO.,LTD.
Address:	3F, 5 Bldg, Huaqing Creative Park, Huishan Economic Development Zone, Wuxi, Jiangsu.
Date of Test:	May. 15 – Jun. 17, 2015
Applicable Standards:	FCC Part 15, Subpart C (15.231) KDB 447498 D01 V05 R02, clause 4.3.1

The above equipment has been tested by Shenzhen Microtest Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Radiated Emission Test	FCC Part 15.231(a)	PASS
Bandwidth	FCC Part 15.231	PASS
Release Time Measurement	FCC Part 15.231(a)	PASS
Duty Cycle	FCC Part 15.231	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	Car remote control
Model :	THL-5
Additional Model:	THL-2,THL-3,THL-4,THL-6
Trade Mark:	KYDZ
Operation Frequency:	315MHz
Modulation Type:	ООК
Antenna Type:	PCB LOOP Antenna
Antenna Gain:	5dBi
Power Supply:	DC Battery: DC 3V (CR2032)

Note:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.1. Block Diagram Showing the Configuration of System Tested

	EUT	

3.2. Description of Support Units

The EUT has been tested as an independent unit.

3.3. **Description of Test Mode**

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

Test Items	Note
Radiated Emission	Continuously transmitting
Bandwidth	Continuously transmitting
Duty Cycle	Continuously transmitting
Release Time	Normal Mode

Note:

- (1) During the testing procedure, the continuously transmitting mode was programmed by the customer.
- (2) The EUT is considered a portable unit, and it was pre-tested on the positioned of each 3 axis: X axis, Y axis and Z axis. The worst case was found positioned on Z-plane. There for only the test data of this Z-plane were used for radiated emission measurement test.

4. Facilities and Accreditations

4.1. Facilities

Shenzhen Toby Technology Co., Ltd.

Add.: 10/F.,A Block,Jiada R&D Bldg.,No.5 Songpingshan, Road, Science&Technology Park,

Shenzhen, 518057

FCC Registration No.:811562

4.2. 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 %.

No.	Item	MU
1	Conducted Emission	±1.38dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1G)	±4.68dB
5	All emissions, radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

5. Test Results and Measurement Data

5.1. Antenna requirement

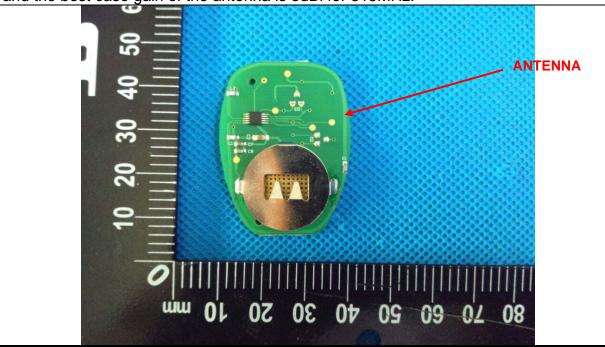
Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

The EUT transmitting antennas belongs to Dipole antenna which removable attached, and the best case gain of the antenna is 5dBi for 315MHz.



6. Conducted Emission

6.1 Test Specification

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4:2009		
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto
	Frequency range	Limit (d	dBuV)
	(MHz)	Quasi-peak	Average
Limits:	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	Refere	nce Plane	
Test Setup:	AUX Equipment E.U.T EMI Receiver Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m		
Test Mode:	Continuous transmitting mode		
Test Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement. 		
Test Result:	The test is not applicable		

6.1.2 Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100321	2015-08-09
50 Ω Coaxial Switch	Anritsu	MP59B	X10321	2015-08-09
L.I.S.N	R&S	ENV216	101131	2015-08-09
L.I.S.N	SCHWARZBZCK	NNBL 8226-2	8226-2/164	2015-08-09

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.1.3 Test data

The test is not applicable.

7. Radiated Emission Test

7.1 Test Standard and Limit

7.1.1Test Standard FCC Part 15.231(a)

7.1.2 Test Limit

According to FCC 15.231(a) requirement:

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolt/meter) at 3m	Field Strength of Spurious Emissions (microvolt/meter) at 3m
40.66~40.70	2250	225
70~130	1250	125
130~174	1250 to 3750(**)	125 to 375(**)
174~260	3750	375
260~470	3750 to 12500(**)	375 to 1250(**)
Above 470	12500	1250

^{**} Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

- (1) for the band 130~174 MHz, uV/m at 3 meters= 56.81818(F)-6136.3636;
- (2) for the band 260~470 MHz, uV/m at 3 meter= 41.6667(F)-7083.3333.

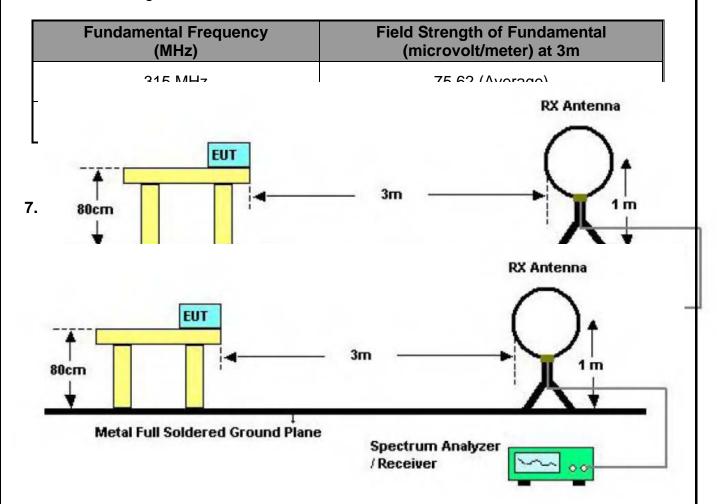
The maximum permitted unwanted emissions level is 20 dB below the maximum permitted fundamental level. In addition field strength of any emissions which appear inside of the restriction band shall not exceed the general radiated emissions limits in Section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	2400/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

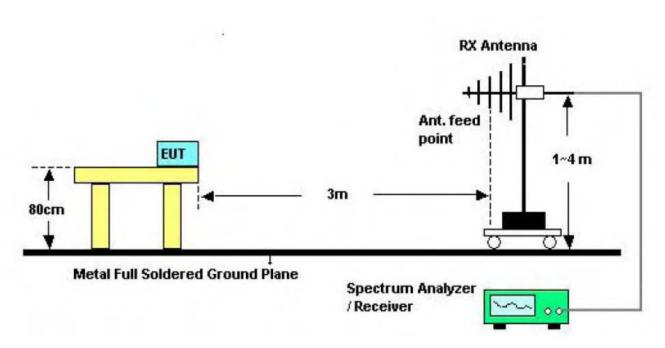
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

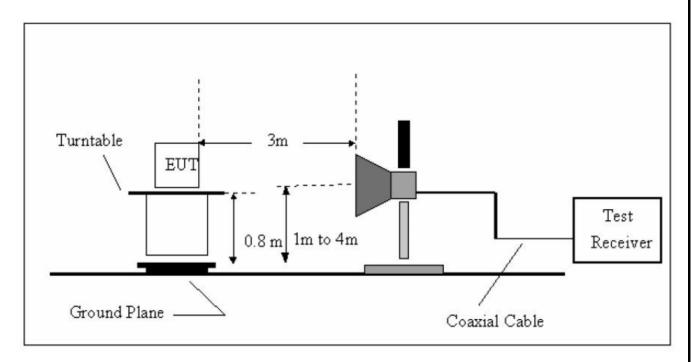
So the field strength of emission limits have been calculated in below table.



Bellow 30MHz Test Setup



Bellow 1000MHz Test Setup



Above 1GHz Test Setup

100.82.1 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

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- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) For the actual test configuration, please see the test setup photo.

7.3 EUT Operating Conditio

The Equipment Under Test was set to Continual Transmitting in maximum power.

7.4 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2015	Mar. 19, 2016
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 08, 2015	Aug.07, 2016
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 08, 2015	Aug.07, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2015	Mar.06, 2016
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2015	Mar.06, 2016
Pre-amplifier	HP	11909A	185903	Mar. 07, 2015	Mar.06, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 07, 2015	Mar.06, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 07, 2015	Mar.06, 2016
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Feb. 11, 2015	Feb.10, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

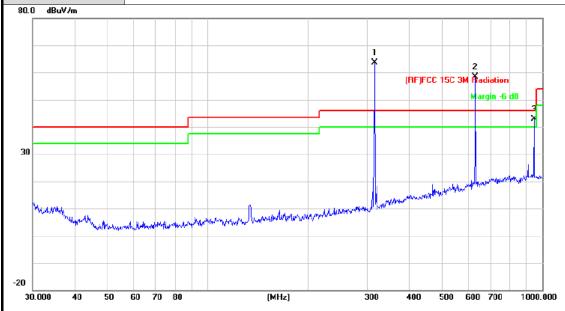
7.5 Test Data

Please refer to the following pages.

Radiated Emission Bellow 1 GHz

EUT:	Radio Emitters	Model Name :	THL-5
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3V		
Ant. Pol.	Vertical		
Test Mode:	TX Mode		
Remark:			

Remark:



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	315.4808	80.23	-16.50	63.73	46.00	17.73	peak			
2	Х	631.6884	66.93	-8.57	58.36	46.00	12.36	peak			
3	İ	945.4399	47.71	-4.83	42.88	46.00	-3.12	peak			

Emission Level= Read Level+ Correct Factor

EUT:	Radio Emitters	Model Name :	THL-5	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	DC 3V			
Ant. Pol.	Horizontal			
Test Mode:	TX Mode			
Remark:				
80.0 dBuV/m				
-20 30.000 40 50	60 70 80 (MHz	mutha to produce in the second state of the se	500 600 700 1000.000	
No. Mk. Freq.	Reading Correct Measure- Level Factor ment	1: "	ntenna Table leight Degree	
MHz	dBuV dB/m dBuV/m	dBuV/m dB Detector	cm degree Comment	
1 * 315.4808	84.73 -16.50 68.23	46.00 22.23 peak		
2 X 631.6884 3 X 945.4399	60.88 -8.57 52.31 57.10 -4.83 52.27	46.00 6.31 peak 46.00 6.27 peak		
	Read Level+ Correct Fac			

Note: (1) All Readings are Peak Value.

- (2) Emission Level= Reading Level+ Probe Factor +Cable Loss
- (3) The QP measurement was not performed when the peak measured data under the limit of QP detection.

Fundamental and Harmonics emissions

Freq.	Ant.Pol.		Emission Limit Margin(dE Level(dBuV) 3m(dBuV/m)				n(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
315	V	63.73	52.56	95.62	75.62	31.89	23.06
630	V	58.36	47.19	75.62	55.62	17.26	8.43
945	V	42.88	31.71	75.62	55.62	32.74	23.91
1260	V	46.74	35.57	75.62	55.62	28.88	20.05
1575	V	42.57	31.4	75.62	55.62	33.05	24.22
1890	V	38.69	27.52	75.62	55.62	36.93	28.1
2205	V	36.14	24.97	74	54	37.86	29.03
			•	Limit 3m(dBuV/m)			
Freq.	Ant.Pol.		ssion dBuV)			Margi	n(dB)
Freq. (MHz)	Ant.Pol.					Margi PK	n(dB) AV
•		Level(dBuV)	3m(dE	BuV/m)		, ,
(MHz)	H/V	Level(PK	dBuV) AV	3m(dE PK	BuV/m) AV	PK	AV
(MHz) 315	H/V H	Level(PK 68.23	dBuV) AV 57.06	3m(dE PK 95.62	AV 75.62	PK 27.39	AV 18.56
(MHz) 315 630	H/V H H	Level(PK 68.23 52.31	AV 57.06 41.14	3m(dE PK 95.62 75.62	AV 75.62 55.62	PK 27.39 23.31	AV 18.56 14.48
(MHz) 315 630 945	H/V H H	Level(PK 68.23 52.31 52.27	AV 57.06 41.14 41.1	3m(dE PK 95.62 75.62 75.62	AV 75.62 55.62 55.62	PK 27.39 23.31 23.35	AV 18.56 14.48 14.52
(MHz) 315 630 945 1260	H/V H H H	Level(PK 68.23 52.31 52.27 48.63	AV 57.06 41.14 41.1 37.46	3m(dE PK 95.62 75.62 75.62	AV 75.62 55.62 55.62 55.62	PK 27.39 23.31 23.35 26.99	AV 18.56 14.48 14.52 18.16

Other harmonics emissions are lower than 20dB below the allowable limit.

Note: (1) All Readings are Peak Value and AV. And AV is calculated by the following:

- Average = Peak Value + 20log(Duty Cycle), Final AV=PK-11.17
- (2) Emission Level= Reading Level + Probe Factor +Cable Loss
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Pulse Desensitization Correction Factor

Note:

- (1)The Total Pulse Width (PW)= 27.64 ms
- (2) 2/PW=2/27.64 (ms)= 0.07 kHz<100 kHz

Because 2/PW<RBW, so the PDCF is not needed.

8. Bandwidth

8.1 Test Standard and Limit

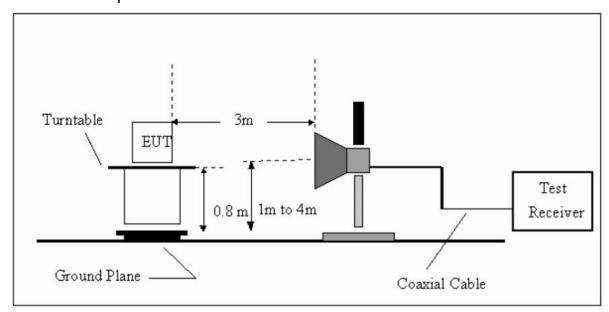
8.1.1 Test Standard FCC Part 15.231

8.1.2 Test Limit

The bandwidth of the emissions shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. So the emission bandwidth limits have been calculated in below table.

Fundamental Frequency	20 dB Bandwidth Limits (MHz)
315 MHz	0.7875

8.2 Test Setup



8.3 Test Procedure

- (1) Set Spectrum Analyzer Center Frequency= Fundamental Frequency, RBW=10 kHz, VBW= 30 kHz, Span= 1 MHz.
- (2) Measured the spectrum width with power higher than 20 dB below carrier.

8.4 EUT Operating Condition

The Equipment Under Test was Programmed to be in continuously transmitting mode.

8.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2015	Mar. 19, 2016
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 08, 2014	Aug.07, 2015
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 08, 2014	Aug.07, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2015	Mar.06, 2016

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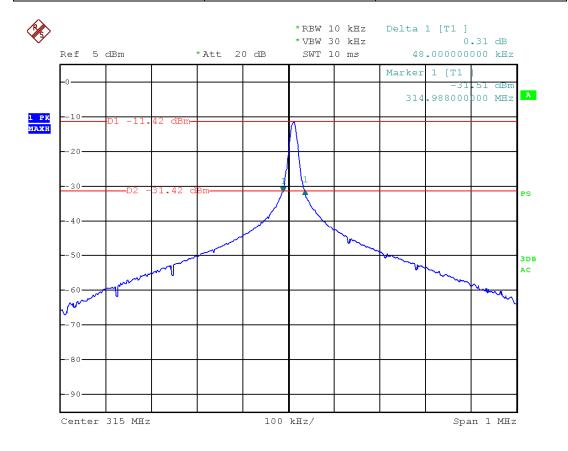
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2015	Mar.06, 2016
Pre-amplifier	HP	11909A	185903	Mar. 07, 2015	Mar.06, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 07, 2015	Mar.06, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 07, 2015	Mar.06, 2016
Signal	Rohde & Schwarz	SML03	IKW682-054	Feb. 11, 2015	Feb.10, 2016
Generator	Rondo d Conwarz	OWILOO	11(1/1002 001	1 00. 11, 2010	1 00.10, 2010
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

8.6 Test Condition

Temperature		25 ℃
Relative Humidity	:	65 %
Pressure	:	1010 hPa
Test Power	:	DC 3V

8.7 Test Data

Frequency (MHz)	20 dBc Bandwidth (kHz)	Result
315	48.00	PASS



9. Release Time Measurement

9.1 Test Standard and Limit

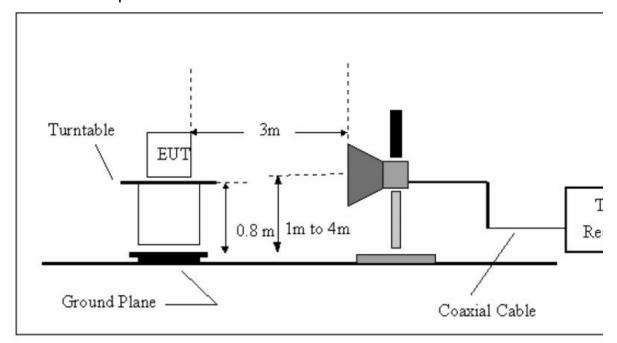
9.1.1 Test Standard

FCC Part 15.231 (a)(1)

9.1.2 Test Limit

According to FCC Part 15.231 (a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

9.2 Test Setup



9.3 Test Procedure

- (1) Setup the EUT as show in the block diagram above.
- (2) Set Spectrum Analyzer Centre Frequency= Fundamental Frequency, RBW=100 kHz, VBW= 100 kHz, Span= 0 Hz. Sweep Time= 5 Seconds.
- (3) Setup the EUT as normal operation and press Transmitter button.
- (4) Set Spectrum Analyzer View, Delta Mark time.

9.4 EUT Operating Condition

The EUT was set to work in transmitting mode.

9.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2015	Mar. 19, 2016
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 08, 2014	Aug.07, 2015
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 08, 2014	Aug.07, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2015	Mar.06, 2016

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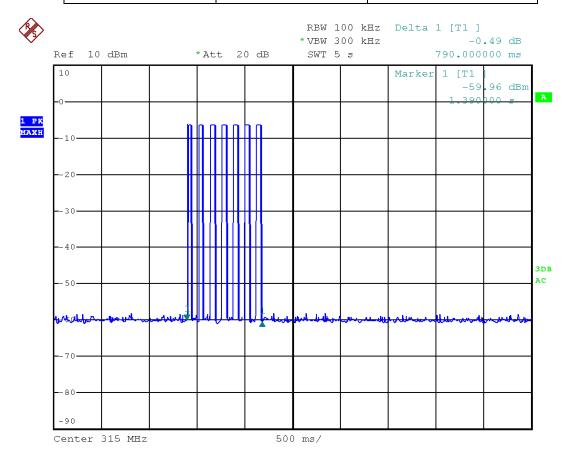
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2015	Mar.06, 2016
Pre-amplifier	HP	11909A	185903	Mar. 07, 2015	Mar.06, 2016
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Signal	Rohde & Schwarz	SML03	IKW682-054	Feb. 11, 2015	Feb.10, 2016
Generator	Ronde & Conwarz	OWIEGO	11(1/002 004	1 35. 11, 2010	1 00.10, 2010
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

9.6 Test Condition

Temperature	:	25 ℃
Relative Humidity	:	65 %
Pressure	:	1010 hPa
Test Power	:	DC 3V

9.7 Test Data

Release Time (s)	Limit (s)	Result
0.79	5	PASS

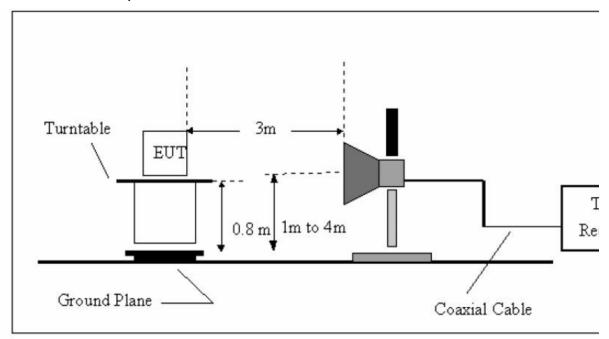


10. Duty Cycle

10.1. Test Standard and Limit

10.1.1 Test Standard FCC Part 15.231

10.2. Test Setup



10.3. Test Procedure

- (1) The EUT was placed on a turntable which is 0.8m above ground plane.
- (2) Set EUT operating in continuous transmitting mode.
- (3) Set the Spectrum Analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth (RBW) to 100 kHz and video bandwidth (VBW) to 300 kHz, Span was set to 0 Hz.
- (4) The Duty Cycle was measured and recorded.

10.4. EUT Operating Condition

The EUT was programmed to be in transmitting mode.

10.5. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2015	Mar. 19, 2016
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 08, 2014	Aug.07, 2015
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Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2015	Mar.06, 2016
Pre-amplifier	HP	11909A	185903	Mar. 07, 2015	Mar.06, 2016
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Generator	Trondo di Conwarz	OWIEGO			. 555, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

10.6. Test Condition

Temperature	25 ℃	
Relative Humidity	65 %	
Pressure	1010 hPa	
Test Power	DC 3V	

10.7. Test Data

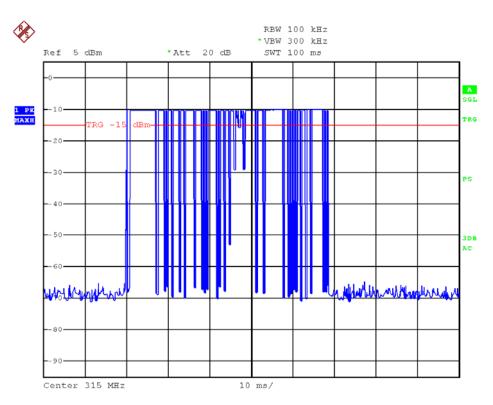
Please refer the following pages:

Plot 1: transmit once in 100ms, and each cycle is 100 ms.there are four kinds of pulse in each cycle, the pulses total: P1=1 , P2=10 , P3=15 , P4=51.

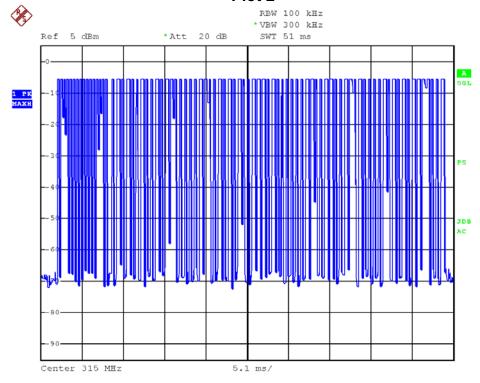
Plot 2: pulse 1 in a time period of 5.600 ms Plot 3: pulse 2 in a time period of 2.080 ms Plot 4: pulse 3 in a time period of 0.640 ms Plot 5: pulse 4 in a time period of 0.260 ms

Duty Cycle=ON/Total=(0.26*45+0.46*29)/100=27.64% 20 log(Duty Cycle)=-11.17 Average=Peak value+ 20log(Duty Cycle), AV=PK-11.17

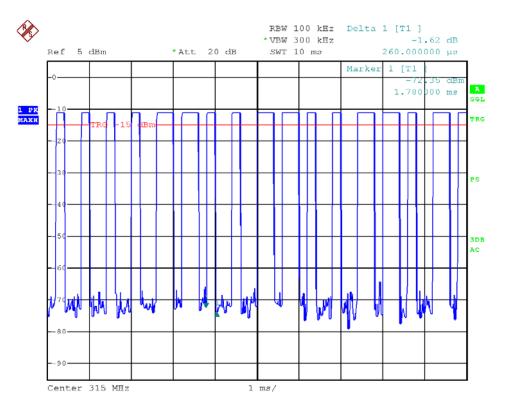
Plot 1



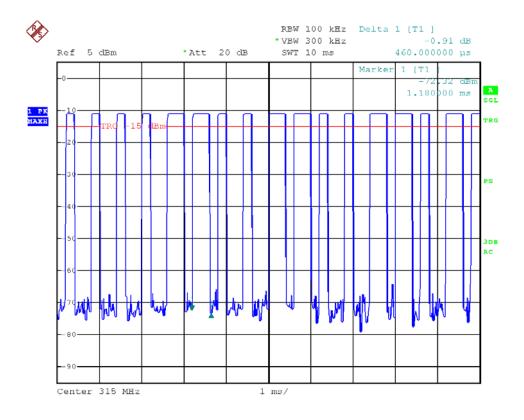
Plot 2



Plot 3



Plot 4



*****END OF REPORT****