



# **TEST REPORT**

Applicant	ZHUHAI SUPER BRIGHT NEW ENERGY LIMITED
Address	NO.9 XINGWAN 6TH ROAD,HONGWAN COMMERCE&LOGISTICS ZHUHAI,CHINA

Manufacturer or Supplier	ZHUHAI SUPER BRIGHT NEW ENERGY LIMITED
Address	NO.9 XINGWAN 6TH ROAD,HONGWAN COMMERCE&LOGISTICS ZHUHAI,CHINA
Product	Intelligent Solar Light
Brand Name	N/A
Model	DR-3156
Additional Model & Model Difference	DR-0059, DR-0078, DR-3138, DR-0499, DR-3177; See section 3.1
Date of tests	Aug. 14, 2013 ~ Aug. 21, 2013

the tests have been carried out according to the requirements of the following standards:

□ FCC Part 15, Subpart C, Section 15.231a (2012-10)

#### CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Prepared by Venless long	Approved by Glyn He
Specialist / EMC Department	Supervisor / EMC Department
verles	Glyn

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

Date: Aug. 21, 2013





# **TABLE OF CONTENTS**

RI	ELEA	SE C	ONTROL RECORD	4
1	SU	MMA	RY OF TEST RESULTS	5
2	ME	EASU	REMENT UNCERTAINTY	5
3	GE	NER	AL INFORMATION	6
	3.1	GEN	IERAL DESCRIPTION OF EUT	6
	3.2	DES	CRIPTION OF TEST MODES	6
	3.3	TES	T MODE APPLICABILITY AND TESTED CHANNEL DETAIL	7
	3.4	GEN	IERAL DESCRIPTION OF APPLIED STANDARDS	9
	3.5	DES	CRIPTION OF SUPPORT UNITS	9
4.	TE	ST T	YPES AND RESULTS	10
	4.1	RAD	DIATED EMISSION MEASUREMENT	10
	4.	1.1	LIMITS OF RADIATED EMISSION MEASUREMENT	10
	4.	1.2	TEST INSTRUMENTS	11
	4.	1.3	TEST PROCEDURES	12
	4.	1.4	DEVIATION FROM TEST STANDARD	12
	4.	1.5	TEST SETUP	13
	4.	1.6	EUT OPERATING CONDITIONS	13
	4.	1.7	TEST RESULTS	14
	4.2	20d	BANDWIDTH MEASUREMENT	19
	4.	2.1	LIMITS OF 20dB BANDWIDTH MEASUREMENT	19
	4.	2.2	TEST INSTRUMENTS	19
	4.	2.3	TEST PROCEDURE	20
	4.	2.4	DEVIATION FROM TEST STANDARD	20
	4.	2.5	TEST SETUP	20
	4.	2.6	EUT OPERATING CONDITIONS	20
	4.	2.7	TEST RESULTS	21
	4.3	DEA	CTIVATION TEST	22
	4.	3.1	LIMITS OF DEACTIVATION TEST	22
	4.	3.2	TEST INSTRUMENTS	22
		3.3	TEST PROCEDURE	
	4.	3.4	DEVIATION FROM TEST STANDARD	23
	4.	3.5	TEST SETUP	23





			Cert 2951.01
	4.3.6	EUT OPERATING CONDITIONS	23
	4.3.7	TEST RESULTS	24
5	РНОТО	OGRAPHS OF THE TEST CONFIGURATION	25
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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130813N001	Original release	Aug. 21, 2013

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Page 4 of 26





#### 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.231)			
STANDARD SECTION	TEST TYPE AND LIMIT	REMARK	
§15.203	Antenna Requirement	PASS	Compliant
§15.207 (a)	AC Power Conducted Emission	N/A	EUT is powered by battery
§15.209 §15.231(b)	Radiated Emission	PASS	Compliant
§15.231 (a)	Deactivation Testing	PASS	Compliant
§15.231(c)	Emission Bandwidth Measurement	PASS	Compliant

## 2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.67dB
	9KHz ~ 30MHz	2.5dB
Radiated emissions	30MHz ~ 1000MHz	4.81dB
radiated emissions	1GHz ~ 18GHz	4.3dB
	18GHz ~ 40GHz	1.94dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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#### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Intelligent Solar Light
MODEL NO.	DR-3156
FCC ID	2AAUTSOLARSYSTEM
NOMINAL VOLTAGE	DC 3.2V from Battery
MODULATION TYPE	ASK
OPERATING FREQUENCY	433.85MHz
NUMBER OF CHANNEL	1
ANTENNA TYPE	Integral PCB Antenna
I/O PORTS	Refer to the user's manual

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. Additional models DR-0059, DR-0078, DR-3138, DR-0499, DR-3177 are identical in circuitry and electrical, mechanical and physical construction with the test model DR-3156, with only difference being appearance and model name.

#### 3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Z plane for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

FREQUENCY	TEST MODES		
433.85MHz	Transmitting		

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#### 3.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE		AF	PPLICABLE 1	го		DESCRIPTION
MODE	RE≥1G	RE < 1G	PLC	EB	DT	
-	$\checkmark$	$\checkmark$	-	$\checkmark$	$\checkmark$	Power by battery

Where  $RE \ge 1G$ : Radiated Emission above 1GHz

PLC: Power Line Conducted Emission

**DT**: Deactivation Time measurement

**RE < 1G:** Radiated Emission below 1GHz

EB: 20dB Bandwidth measurement

#### **POWER LINE CONDUCTED EMISSION TEST:**

Pre-Scan has been conducted to determine the worst-case mode from all possible
combinations between available modulations, data rates and antenna ports (if EUT with
antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1	1	ASK

#### **RADIATED EMISSION TEST (ABOVE 1 GHz):**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations.

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1	1	ASK

#### **RADIATED EMISSION TEST (BELOW 1 GHz):**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations.

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1	1	ASK





#### **EMISSION BANDWIDTH MEASUREMENT:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations.

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1	1	ASK

#### **DEACTIVATION TIME MEASUREMENT:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations.

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1	1	ASK

#### **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE≥1G	25deg. C, 62%RH	DC 3.2V from Battery	Glyn He
RE<1G	25deg. C, 62%RH	DC 3.2V from Battery	Glyn He
EB	24deg. C, 60%RH	DC 3.2V from Battery	Glyn He
DT	24deg. C, 60%RH	DC 3.2V from Battery	Glyn He

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Page 8 of 26 Report Version 1





#### 3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C Section 15.231a (2012-10) ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

#### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A	N/A	N/A	N/A	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

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# 4. TEST TYPES AND RESULTS

#### 4.1 RADIATED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/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

According to §15.231(b), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emission (microvolts/meter)
40.66–40.70	2,250	225
70–130	1,250	125
130–174	<sup>1</sup> 1,250 to 3,750	<sup>1</sup> 125 to 375
174–260	3,750	375
260–470	<sup>1</sup> 3,750 to 12,500	<sup>1</sup> 375 to 1,250
Above 470	12,500	1,250

#### NOTE:

- 1. <sup>1</sup> Linear interpolations.
- 2. The lower limit shall apply at the transition frequencies.
- 3. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 4. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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#### 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	April 23,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Loop antenna (9kHz~30MHz)	Daze	ZN30900A	0708	Nov. 28,12	Nov. 27,13
Bilog Antenna (20M-2GHz)	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
Horn Antenna (1GHz -18GHz)	ЕМСО	3117	00062558	Oct.18,12	Oct.17,13
Pre-Amplifier (9kHz~1GHz)	SONOMA	310D	186955	Mar. 06,13	Mar. 05,14
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 14,13	May 13,14
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 31,12	Oct. 30,13
Test Software	ADT	ADT_Radiated _V7.6.15	N/A	N/A	N/A
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	April 23,14

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

- 2. The test site was performed in Chamber
- 3. The FCC Site Registration No. is 502831

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#### 4.1.3 TEST PROCEDURES

The basic test procedure was in accordance with ANSI C63.4 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

#### 4.1.4 DEVIATION FROM TEST STANDARD

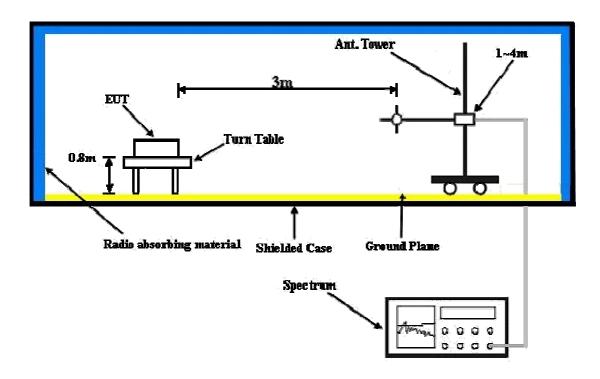
No deviation

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#### 4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Enable EUT under transmission condition continuously at specific channel frequency.

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#### 4.1.7 TEST RESULTS

#### **BELOW 1GHz WORST-CASE DATA: Transmitting**

	ANTE	ENNA POL	ARITY &	TEST DISTA	NCE: HOR	IZONTAL	AT 3M	
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	119.24 PK	12.53	5.19	17.72	43.5	-25.78	149	165
2	173.56 PK	11.59	9.13	20.72	43.5	-22.78	110	109
3	350.10 PK	17.49	12.02	29.51	46	-16.49	100	64
4	433.85 PK	20.33	56.33	76.66	100.82	-24.16	100	15
5	433.85 AV	-	-	68.01	80.82	-12.81	-	-
6	720.64 PK	26.4	3.08	29.48	46	-16.52	100	64
7	867.70 PK	28.34	38.15	66.49	80.82	-14.33	100	0
8	867.70 AV	-	-	57.84	60.82	-2.98	•	-
	AN <sup>*</sup>	TENNA PO	LARITY 8	& TEST DIST	ANCE: VE	RTICAL A	AT 3M	
		0	)	Fraissian			_	
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
No.		Factor	Value	Level			Height	Angle
	(MHz)	Factor (dB/m)	Value (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	Height (cm)	Angle (Degree)
1	(MHz) 111.48 PK	Factor (dB/m) 12.33	Value (dBuV) 7.73	Level (dBuV/m) 20.06	(dBuV/m) 43.5	(dB) -23.44	Height (cm)	Angle (Degree) 322
1 2	(MHz) 111.48 PK 173.56 PK	Factor (dB/m) 12.33 11.59	Value (dBuV) 7.73 9.16	Level (dBuV/m) 20.06 20.75	(dBuV/m) 43.5 43.5	(dB) -23.44 -22.75	Height (cm) 100	Angle (Degree) 322 290
1 2 3	(MHz) 111.48 PK 173.56 PK 433.85 PK	Factor (dB/m) 12.33 11.59	Value (dBuV) 7.73 9.16	Level (dBuV/m) 20.06 20.75 76.68	(dBuV/m) 43.5 43.5 100.82	-23.44 -22.75 -24.14	Height (cm) 100 100 100	Angle (Degree) 322 290 0
1 2 3 4	(MHz) 111.48 PK 173.56 PK 433.85 PK 433.85 AV	Factor (dB/m) 12.33 11.59 20.34	Value (dBuV) 7.73 9.16 56.34	Level (dBuV/m) 20.06 20.75 76.68 68.03	(dBuV/m) 43.5 43.5 100.82 80.82	(dB) -23.44 -22.75 -24.14 -12.79	Height (cm) 100 100 100 -	Angle (Degree) 322 290 0
1 2 3 4 5	(MHz) 111.48 PK 173.56 PK 433.85 PK 433.85 AV 751.68 PK	Factor (dB/m) 12.33 11.59 20.34 - 27.2	Value (dBuV) 7.73 9.16 56.34 - 1.65	Level (dBuV/m) 20.06 20.75 76.68 68.03 28.85	(dBuV/m) 43.5 43.5 100.82 80.82 46	(dB) -23.44 -22.75 -24.14 -12.79 -17.15	Height (cm) 100 100 100 - 100	Angle (Degree) 322 290 0 - 359

#### NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. Margin value = Emission level Limit value.
- 5. For the test results, the EUT had been tested from 9KHz ~5GHz. But only the worst case was shown in test report.
- 6. Fundamental AV value =PK Emission +20\*log(duty cycle)Where the duty factor is calculated from following formula:20 log (Duty cycle) = 20 log (21.28 ms / 57.6 ms) = -8.65 dB Please see page 16~18 for plotted duty.

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#### **ABOVE 1GHz WORST-CASE DATA: Transmitting**

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 5GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M							
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	1301.76 PK	26.2	31.4	57.6	74	-16.4	105	120
	1301.76 AV	26.2	22.75	48.95	54	-5.05	105	120
2	1735.68 PK	29.94	24.76	54.7	74	-19.3	100	140
	1735.68 AV	29.94	16.11	46.05	54	-7.95	100	140
3	2169.6 PK	34.42	20.08	54.5	74	-19.5	100	120
	2169.6 AV	34.42	11.43	45.85	54	-8.15	100	120
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M							
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	1301.76 PK	26.2	30.3	56.5	74	-17.5	105	120
	1301.76 AV	26.2	21.65	47.85	54	-6.15	105	120
2	1735.68 PK	29.94	24.76	54.7	74	-19.3	100	140
	1735.68 AV	29.94	16.11	46.05	54	-7.95	100	140
3	2169.6 PK	34.42	21.18	55.6	74	-18.4	100	120
	2169.6 AV	34.42	12.53	46.95	54	-7.05	100	120

#### NOTE:

- 1 The resolution bandwidth of test receiver/spectrum analyzer is 1MHz for Peak detection (PK) at frequency above 1GHz.
- 2 Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3 Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4 Margin value = Emission level Limit value.
- 5 Fundamental AV value =PK Emission +20\*log(duty cycle)Where the duty factor is calculated from following formula:20 log (Duty cycle) = 20 log (21.28 ms / 57.6 ms) = -8.65 dB Please see page 16~18 for plotted duty.

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Page 15 of 26





# **Duty Cycle:**

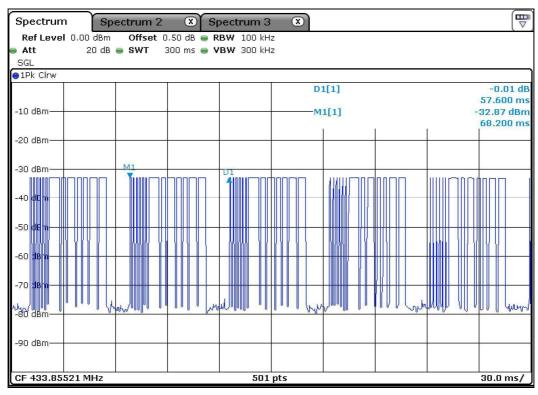
Tp = 57.6ms

Ton = 16\*0.56ms+8\*1.54ms=21.28ms

Duty Cycle = Ton / Tp \* 100% = 21.28/57.6\*100% = 36.94%

Factor = 20\*Log (Ton/Tp) = -8.65 dB

## Тp

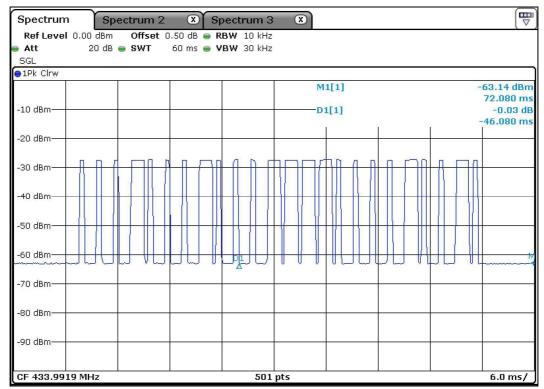


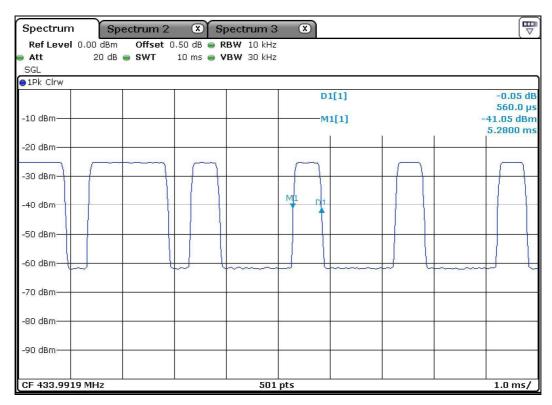
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#### **Ton**= 16\*0.56ms+8\*1.54ms=21.28ms

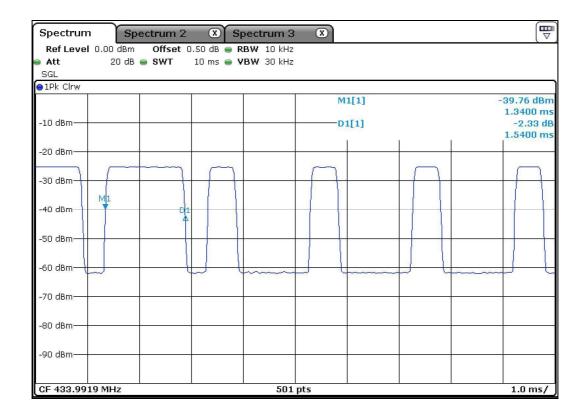




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#### 4.2 20dB BANDWIDTH MEASUREMENT

#### 4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Limit=Fundamental Frequency×0.25%=433.92MHz×0.25%=1084.8 kHz

#### 4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	Apr. 24,13	Apr. 23,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna (20MHz-2GHz)	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
Horn Antenna (1GHz -18GHz)	EMCO	3117	00062558	Oct.18,12	Oct.17,13
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B		May 14,13	May 13,14
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 31,12	Oct. 30,13
Test Software	ADT	ADT_Radiated _V7.6.15	N/A	N/A	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test site was performed in Chamber

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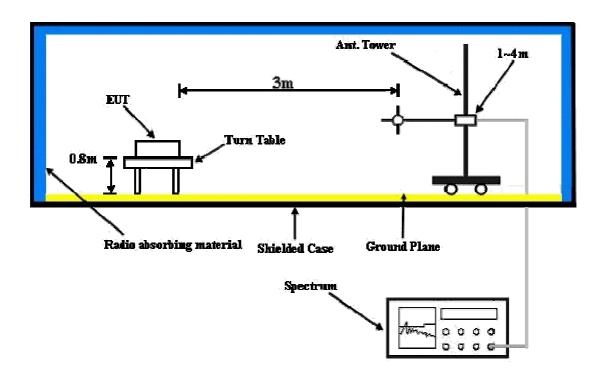
#### 4.2.3 TEST PROCEDURE

The spectrum analyzer was receiving the maximum emission level. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.2.5 TEST SETUP



#### 4.2.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Enable EUT under transmission condition continuously at specific channel frequency.

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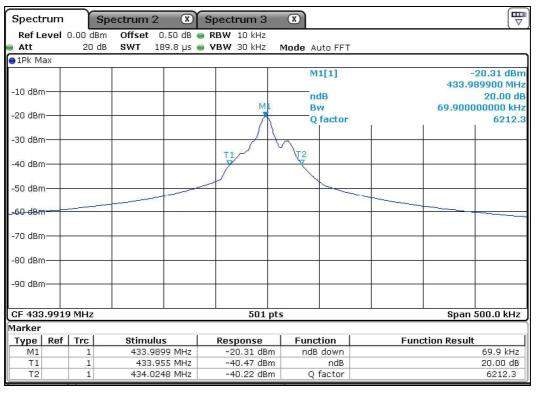




#### 4.2.7 TEST RESULTS

FREQUENCY (MHz)	20dB BANDWIDTH (kHz)	MAXIMUM LIMIT (kHz)	PASS/FAIL	
433.85	69.9	1084.8	PASS	

#### **Test Data:**



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#### 4.3 DEACTIVATION TEST

#### 4.3.1 LIMITS OF DEACTIVATION TEST

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.

15.231 (a)(2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

#### 4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	Apr. 24,13	Apr. 23,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
Horn Antenna (1GHz -18GHz)	EMCO	3117	00062558	Oct.18,12	Oct.17,13
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B		May 14,13	May 13,14
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 31,12	Oct. 30,13
Test Software	ADT	ADT_Radiated _V7.6.15	N/A	N/A	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA

2. The test site was performed in Chamber

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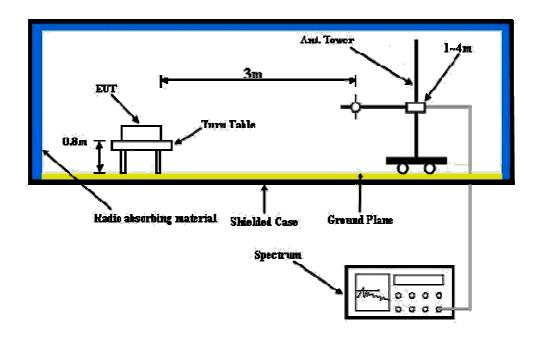
#### 4.3.3 TEST PROCEDURE

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 433.92MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the transmission duration was measured and recorded.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.3.5 TEST SETUP



#### 4.3.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Enable EUT under transmission condition continuously at specific channel frequency.

**Dongguan Branch** 

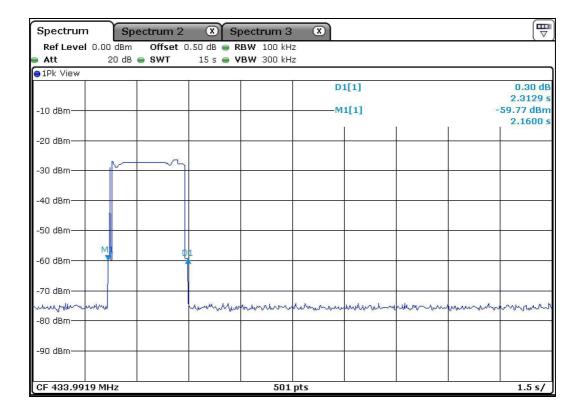




#### 4.3.7 TEST RESULTS

PULSE	FREQUENCY (MHz)	MAXIMUM LIMIT (sec)	PASS/FAIL	
1	433.85	5	PASS	

The plots of test results are attached as below.



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# 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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Page 25 of 26





# 6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---

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