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Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM150800489501

Email: ee.shenzhen@sgs.com Page: 1 of 25

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## **FCC TEST REPORT**

Application No.: SZEM1508004895CR (SGS GZ No.:GZEM1508004063CR)

**Applicant:** Capstone Industries, Inc.

Manufacturer: Minwa China (Huizhou) Electronics Co., Ltd Minwa China (Huizhou) Electronics Co., Ltd

**Product Name:** Remote control

Model No.: WRCO-RM

FCC ID: 2ACN4WRCO-RM

Standards: 47 CFR Part 15, Subpart C (2014)

Date of Receipt: 2015-07-15 (for original report SZEM150700402701)

**Date of Test:** 2015-07-15 to 2015-07-23(for original report SZEM150700402701)

**Date of Issue:** 2015-07-30 (for original report SZEM150700402701)

2015-08-11 (for new report SZEM150800489501)

Test Result: PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

#### Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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### 2 Version

Revision Record							
Version Chapter Date Modifier Remark							
00		2015-08-11		Original			

Authorized for issue by:		
Tested By	Eric Fu	2015-07-23
	(Eric Fu) /Project Engineer	Date
Prepared By	Jarole Chen	2015-08-11
	(Jade Chen) /Clerk	Date
Checked By	Owen 2hon	2015-08-11
	(Owen Zhou) /Reviewer	Date



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## 3 Test Summary

Test Item	Test Requirement	Test method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C Section	ANSI C62 10/2000)	DACC	
Antenna nequirement	15.203	ANSI C63.10(2009)	PASS	
AC Power Line Conducted	47 CFR Part 15, Subpart C Section	ANCI Cea 10/2000)	DACC	
Emission	15.207	ANSI C63.10(2009)	PASS	
Field Strength of the	47 CFR Part 15, Subpart C Section	ANCL CC2 10(0000)	DACC	
Fundamental Signal	15.231 (b)	ANSI C63.10(2009)	PASS	
Spurious Emissions	47 CFR Part 15, Subpart C Section	ANCI Cea 10/2000)	DACC	
Spurious Emissions	15.231 (b)/15.209	ANSI C63.10(2009)	PASS	
20dB Bandwidth	47 CFR Part 15, Subpart C Section	ANCI Cea 10/2000)	DACC	
2006 Ballowidtii	15.231 (c)	ANSI C63.10(2009)	PASS	
Dwell Time	47 CFR Part 15, Subpart C Section	ANCL CC2 10(0000)	DACC	
Dweii Tillie	15.231 (a)	ANSI C63.10(2009)	PASS	

#### Remark:

Original model No. in report SZEM15070040270101: WMRC1. New model No. in report SZEM150800489501:WRCO-RM.

Only the model WMRC1 was tested in report SZEM15070040270101.

This report was an additional report copied from the report SZEM15070040270101, just changed the model No., information of applicant and manufacture. Since the electrical circuit design, layout, components used and internal wiring for the model WMRC1 in the report SZEM15070040270101 was exactly the same as the model WRCO-RM in this report, only the model number is different.



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### 5 General Information

### 5.1 Client Information

Applicant:	Capstone Industries, Inc.				
Address of Applicant:	350 Jim Moran Blvd., Suite 120, Deerfield Beach, F133442, USA				
Manufacturer:	Minwa China (Huizhou) Electronics Co., Ltd				
Address of Manufacturer:	Huizhou Industrial Park, Minwa(Dalian)Industrial Park, Ruhu To Huicheng, Huizhou, 516169 Guangdong, China				
Factory:	Minwa China (Huizhou) Electronics Co., Ltd				
Address of Factory:	Huizhou Industrial Park, Minwa(Dalian)Industrial Park, Ruhu Town, Huicheng, Huizhou, 516169 Guangdong, China				

## 5.2 General Description of EUT

Product Name:	Remote control
Model No.:	WMRC1
Operation Frequency:	315MHz
Channel Numbers:	1
Modulation Type:	ASK
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	2dBi
Power Supply:	DC 24V



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### 5.3 Test Environment and Mode

Operating Environment:	Operating Environment:		
Temperature:	25.0 °C		
Humidity:	52 % RH		
Atmospheric Pressure:	1005 mbar		
Test mode:			
Transmitting mode:	Keep the EUT in transmitting mode with modulation.		

### 5.4 Description of Support Units

The EUT has been tested independent unit.

### 5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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### 5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

#### • FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2.

### 5.7 Deviation from Standards

None.

### 5.8 Abnormalities from Standard Conditions

None.

## 5.9 Other Information Requested by the Customer

None.



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### 5.10 Equipment List

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)	
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2016-05-13	
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16	
3	EMI Test software	AUDIX	E3	SEL0050	N/A	
4	Coaxial cable	SGS	N/A	SEL0027	2016-05-13	
5	Coaxial cable	SGS	N/A	SEL0189	2016-05-13	
6	Coaxial cable	SGS	N/A	SEL0121	2016-05-13	
7	Coaxial cable	SGS	N/A	SEL0178	2016-05-13	
8	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2015-10-24	
9	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-24	
10	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2016-05-13	
11	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-24	
12	Barometer	ChangChun	DYM3	SEL0088	2016-05-13	
13	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24	
14	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24	
15	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2015-10-24	
16	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2016-05-13	
17	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2016-05-13	



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				i age.	3 01 23
	RF connected test				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2016-04-25
8	Band filter	amideon	82346	SEL0094	2016-05-13
9	POWER METER	R&S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2016-04-25
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2015-10-24

Note: The calibration interval is one year, all the instruments are valid.



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### 6 Test results and Measurement Data

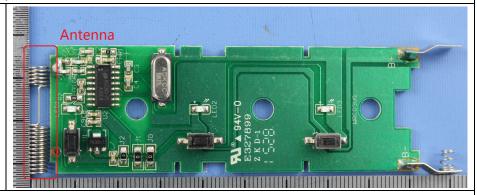
### 6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C 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.

#### **EUT Antenna:**



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.



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### 6.2 Spurious Emissions

### 6.2.1 Duty Cycle

Test Requirement:	47 CFR Part 15C Section 15.35 (c)		
•			
Test Method:	ANSI C63.10:2009		
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane		
Limit:	N/A		
Test Mode:	Transmitting mode		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		

#### Measurement Data

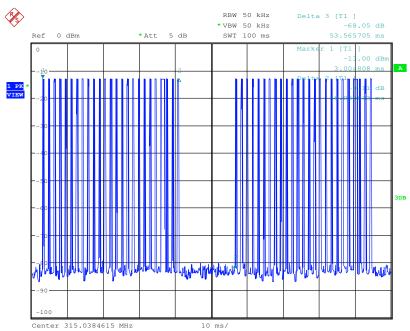
moacaroment Data	
Coloulata Farmula	PDCF=20 log(Duty cycle)
Calculate Formula:	Duty cycle= T on time / T period
	Ton time =21.108
Test data:	T period =100
	Average value= PK+20 log(Duty cycle)



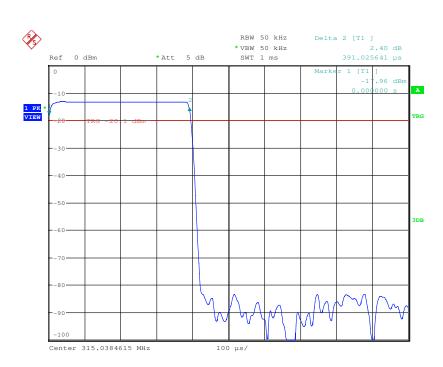
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### Test plot as follows: Duty cycle numbers



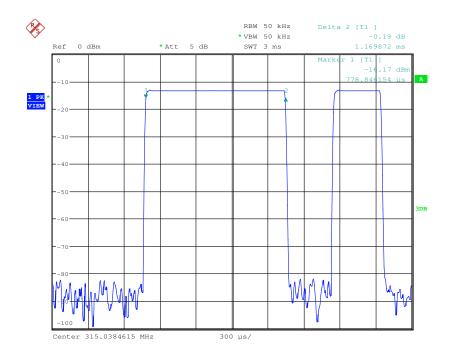
#### Time slot:





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### 6.2.2 Spurious Emissions

-						
Test Requirement:	47 CFR Part 15C Section 15.231(b) and 15.209					
Test Method:	ANSI C63.10: 2009					
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak	
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average	
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak	
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average	
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak	
	Ala a a 4 O L I =	Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	
Limit:	Гиодиолом	Field strength	Limit	Domork	Measurement	
(Spurious Emissions)	Frequency	(microvolt/meter)	(dBuV/m)	Remark	distance (m)	
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
	1.705MHz-30MHz	30	-	-	30	
	30MHz-88MHz	100	40.0	Quasi-peak	3	
	88MHz-216MHz	150	43.5	Quasi-peak	3	
	216MHz-960MHz	200	46.0	Quasi-peak	3	
	960MHz-1GHz	500	54.0	Quasi-peak	3	
	Above 1GHz	500	54.0	Average	3	
	Note: 15.35(b), Unless o	therwise specified,	the limit on	peak radio fred	quency	
	emissions is 20dB	above the maximu	m permitted	average emiss	sion limit	
	applicable to the equipment under test. This peak limit applies to the total peak					
	emission level radiated by the device.					
Limit:	Frequency Limit (dBuV/m @3m) Remark					
(Field strength of the	0458411-	75.62	2	Average Valu	ue	
fundamental signal)	315MHz	95.72	2	Peak Value	e	
	•		Į.			

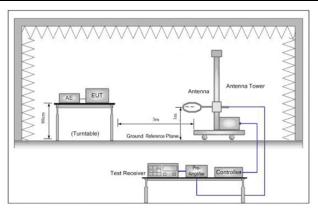
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Test Procedure:	<ul> <li>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna,</li> </ul>
	which was mounted on the top of a variable-height antenna tower.
	c. The antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Setup:	





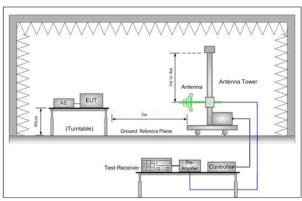


Figure 2. 30MHz to 1GHz



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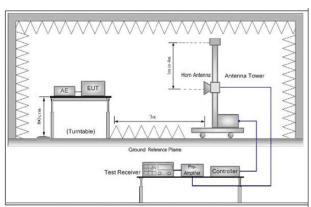


Figure 3. Above 1 GHz

Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

#### **Measurement Data**

### 6.2.2.1 Field Strength Of The Fundamental Signal

Peak value:								
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
315.48	2.85	14.34	0.00	58.62	75.81	95.62	-19.81	Horizontal
315.48	2.85	14.34	0.00	55.31	72.50	95.62	-23.12	Vertical

Average value:	
	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =21.108
Test data:	T period =100
	Average value= PK+20 log(Duty cycle)

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Average value= PK value+20 log(Duty cycle)

Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
315.48	62.30	75.62	-13.32	Horizontal
315.48	58.99	75.62	-16.63	Vertical



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#### 6.2.2.2 Spurious Emissions

#### Radiated emission below 1GHz

Test mode:	Tran	smitter mod	de Test	channel	315MHz	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
157.56	1.92	9.60	0.00	28.57	40.09	43.50	-3.41	Vertical
236.64	2.43	11.77	0.00	17.14	31.34	46.00	-14.66	Vertical
276.12	2.61	12.74	0.00	17.65	33.00	46.00	-13.00	Vertical
543.27	3.96	18.84	0.00	14.89	37.69	46.00	-8.31	Vertical
630.96	4.35	20.33	0.00	35.70	60.38	75.62	-15.24	Vertical
711.67	4.61	21.65	0.00	16.14	42.40	46.00	-3.60	Vertical
111.35	1.50	8.62	0.00	15.04	25.16	43.50	-18.34	Horizontal
157.56	1.92	9.60	0.00	23.73	35.25	43.50	-8.25	Horizontal
236.64	2.43	11.77	0.00	22.77	36.97	46.00	-9.03	Horizontal
276.12	2.61	12.74	0.00	22.43	37.78	46.00	-8.22	Horizontal
531.96	3.87	18.57	0.00	15.25	37.69	46.00	-8.31	Horizontal
630.96	4.35	20.33	0.00	20.51	45.19	75.62	-30.43	Horizontal





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#### **Above 1GHz**

#### Peak value:

i eak value.								
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1260.000	3.46	27.63	38.34	55.42	48.17	74.00	-25.83	Vertical
1575.000	3.77	29.05	38.38	48.91	43.35	74.00	-30.65	Vertical
1890.000	4.18	30.84	38.42	47.30	43.90	74.00	-30.10	Vertical
2205.000	4.63	31.10	38.44	51.76	49.05	74.00	-24.95	Vertical
2520.000	5.08	32.45	38.47	48.06	47.12	74.00	-26.88	Vertical
2835.000	5.54	32.06	38.49	49.06	48.17	74.00	-25.83	Vertical
1260.000	3.46	27.63	38.34	50.17	42.92	74.00	-31.08	Horizontal
1575.000	3.77	29.05	38.38	52.57	47.01	74.00	-26.99	Horizontal
1890.000	4.18	30.84	38.42	57.21	53.81	74.00	-20.19	Horizontal
2205.000	4.63	31.10	38.44	50.78	48.07	74.00	-25.93	Horizontal
2520.000	5.08	32.45	38.47	49.11	48.17	74.00	-25.83	Horizontal
2835.000	5.54	32.06	38.49	48.39	47.50	74.00	-26.50	Horizontal

#### Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



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### 6.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.231 (c)			
Test Method:	ANSI C63.10:2009			
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane			
Limit:	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. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.			
Test Mode:	Transmitting mode			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			

#### **Measurement Data**

20dB bandwidth (MHz)	Limit (MHz)	Results
17.147kHz	787.60	Pass

### Remark:

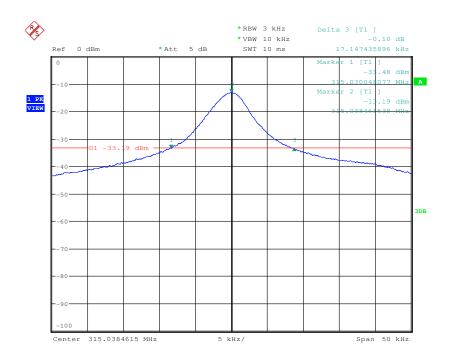
The bandwidth limit is 315.039\* 0.0025=787.60KHz



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### Test plot as follows:

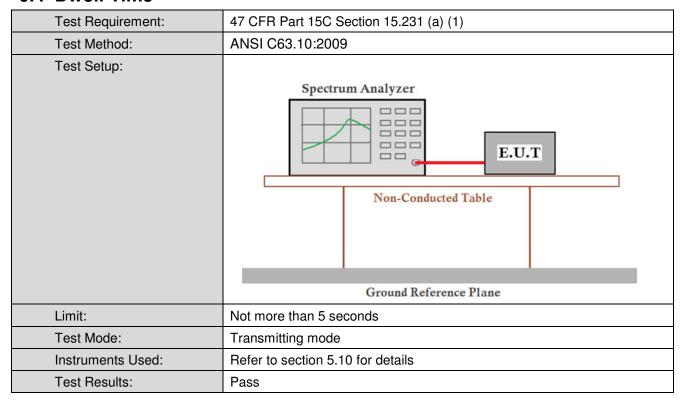




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### 6.4 Dwell Time



#### **Measurement Data**

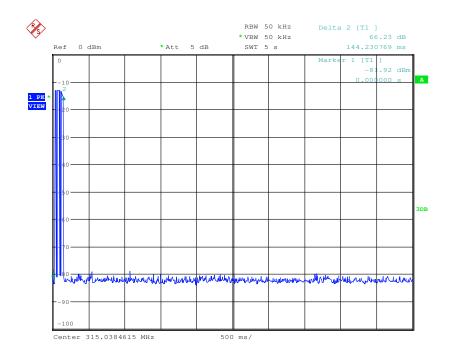
Test item	Limit (MHz)	Results
Transmitting time	<b>≤</b> 5S	0.144



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### Test plot as follows:





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## 7 Photographs - Test setup

### 7.1 Radiated Emission



## 7.2 Radiated Spurious Emission





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## 8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1508004895CR.