

Report No.: SZEM160900830801

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### FCC REPORT

Application No: SZEM1609008308CR

Applicant:Zmodo Technology Shenzhen Corp., Ltd.Manufacturer:Zmodo Technology Shenzhen Corp., Ltd.Factory:Zmodo Technology Shenzhen Corp., Ltd.

Product Name: Remote Control Model No.(EUT): ZM-SHAZ02W

Add Model No.: ZM-SHAZXX (The X is variables, First X=01 TO 99; Second X=W/B/S/G)

FCC ID: ZK8-SHAZ02W

**Standards:** 47 CFR Part 15, Subpart C (2015)

**Date of Receipt:** 2016-09-29

**Date of Test:** 2016-10-11 to 2016-10-14

**Date of Issue:** 2016-10-18

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	Version Chapter Date Modifier Remark						
00		2016-10-18		Original			

Authorized for issue by:		
Tested By	(Bill Chen) /Project Engineer	2016-10-14  Date
	(Sin Onen) // Toject Engineer	Dutc
Checked By	Eric Fu	2016-10-18
	(Eric Fu) /Reviewer	Date



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### 3 Test Summary

Test Item	Test Item Test Requirement Test method		Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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### 5 General Information

### 5.1 Client Information

Applicant:	Zmodo Technology Shenzhen Corp., Ltd.			
Address of Applicant:	25/F, Office Tower A, Financial Technology Building, 11 Keyuar Road, Nanshan District, Shenzhen, China			
Manufacturer:	Zmodo Technology Shenzhen Corp., Ltd.			
Address of Manufacturer:	25/F, Office Tower A, Financial Technology Building, 11 Keyuan Road, Nanshan District, Shenzhen, China			
Factory:	Zmodo Technology Shenzhen Corp., Ltd.			
Address of Factory:	25/F, Office Tower A, Financial Technology Building, 11 Keyuan Road, Nanshan District, Shenzhen, China			

### 5.2 General Description of EUT

Product Name:	Remote Control
Model No.:	ZM-SHAZ02W
Operation Frequency:	915MHz
Modulation Type:	FSK
Sample Type:	Portable production
Number of Channel:	1
Antenna Type:	Monopole
Antenna Gain:	-1.04dBi
Power Supply:	Battery:3.0 DC (3.0V x 1"CR2023"Size Battery)

#### Remark:

Model No.: ZM-SHAZ02W, ZM-SHAZXX (The X is variables, First X=01 TO 99; Second X=W/B/S/G) Only the model ZM-SHAZ02W was tested, since the circuitry design, PCB layout, electrical components used, internal wiring and functions were identical for all above models. Only different on model name and color.



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#### 5.3 Test Environment

Operating Environment	Operating Environment:				
Temperature:	25.0 °C				
Humidity:	53 % RH				
Atmospheric Pressure:	1005mbar				

### 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

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.

### 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.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 10m Semi-anechoic chamber and Shielded Room 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 and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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### 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

	RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09	
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25	
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09	

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2016-10-09	2017-10-09
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24
7	Horn Antenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12
8	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2016-10-09	2017-10-09
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



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### 6 Test results and Measurement Data

### 6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

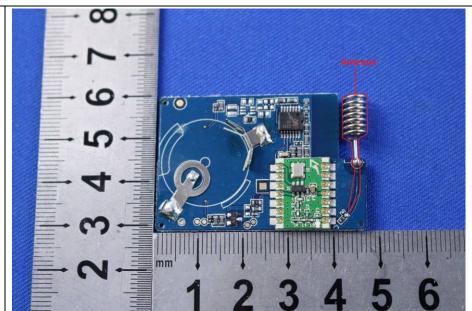
15.203 requirement:

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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **EUT Antenna:**



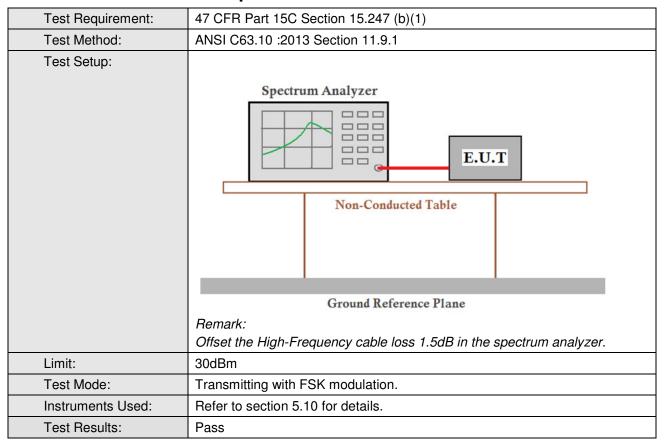
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.04dBi.



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### 6.2 Conducted Peak Output Power



#### **Measurement Data**

FSK mode						
Frequency	Frequency Peak Output Power (dBm) Limit (dBm) Result					
915MHz	9.65	30.00	Pass			

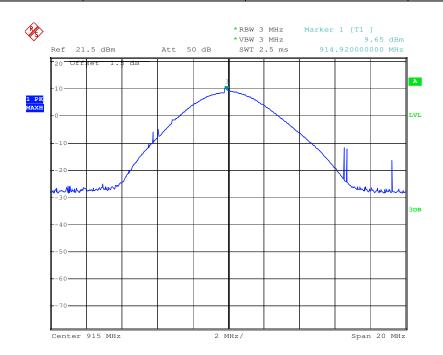


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#### Test plot as follows:

Test mode: FSK Frequency: 915MHz

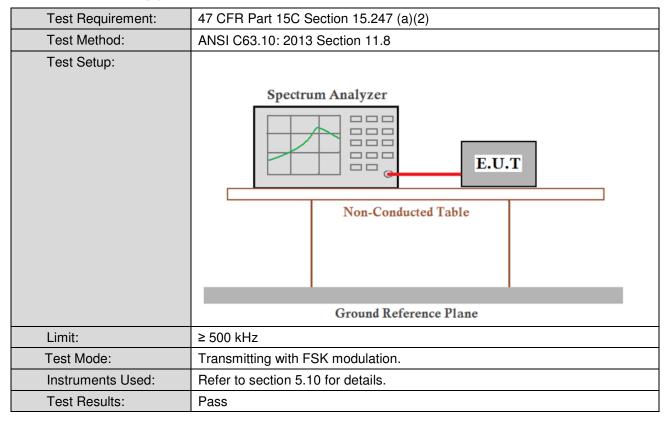




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### 6.3 6dB Occupy Bandwidth



#### **Measurement Data**

	FSK mode		
Frequency	6dB Occupy Bandwidth ((kHz)	Limit (kHz)	Result
915MHz	522	≥500	Pass

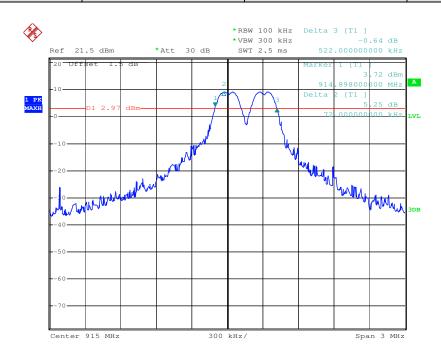


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#### Test plot as follows:

Test mode: FSK Frequency: 915MHz

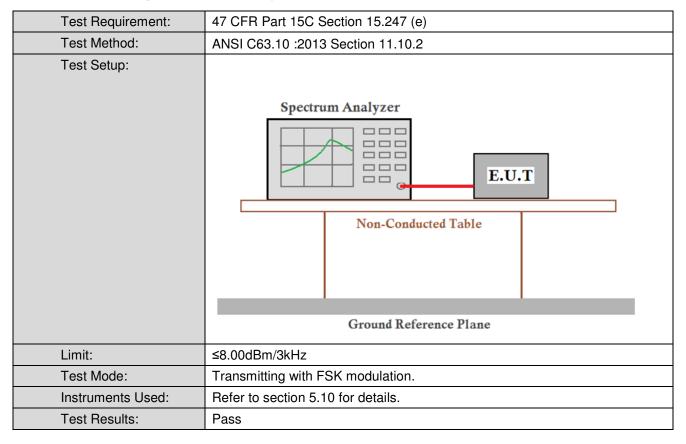




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### **6.4 Power Spectral Density**



#### **Measurement Data**

FSK mode					
Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
915MHz	7.36	≤8.00	Pass		

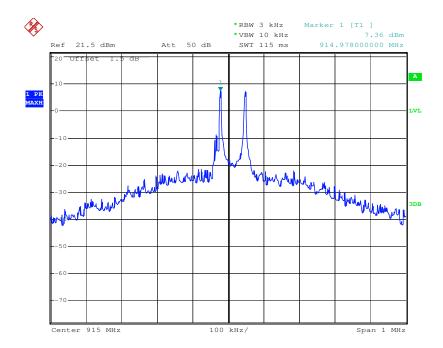


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Test plot as follows:

Test mode: FSK Frequency: 915MHz

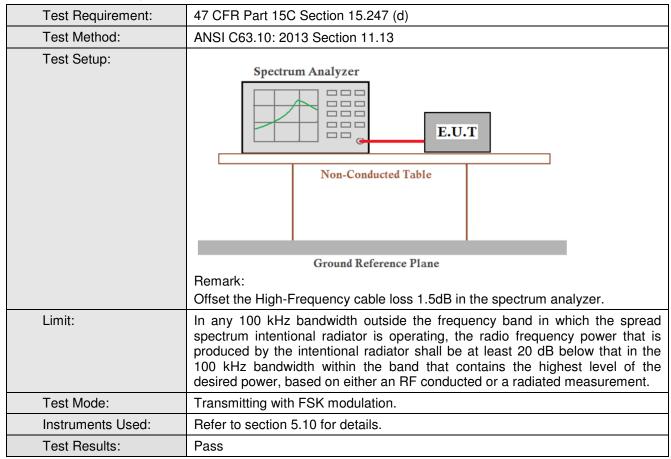




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### 6.5 Band-edge for RF Conducted Emissions





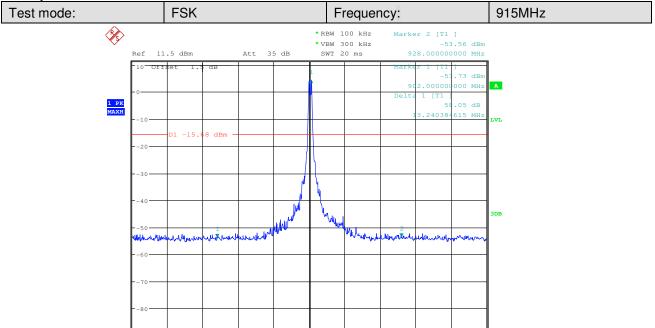
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Span 50 MHz

#### Test plot as follows:

Center 915 MHz



5 MHz/



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### **6.6 Spurious RF Conducted Emissions**

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane  Remark:  Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread
LIIIIIL.	spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Transmitting with FSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

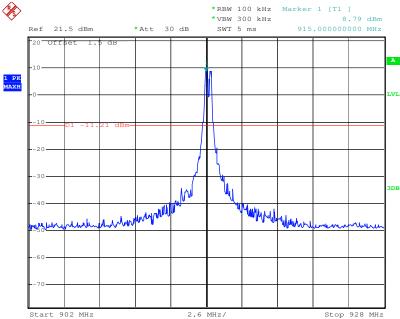


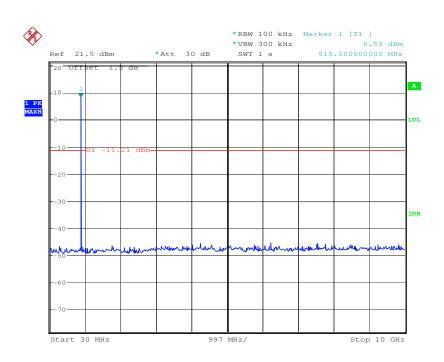
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#### Test plot as follows:









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### 6.7 Radiated Spurious Emission

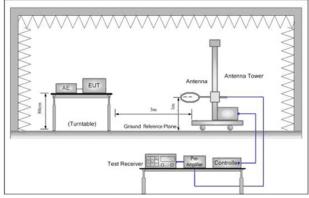
6.7.1 Spurious Emissions								
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205				
Test Method:	ANSI C63.10 :2013 Se	ctior	n 11.12					
Test Site:	Below 1GHz:							
	Measurement Distance Above 1GHz:							
	Measurement Distance: 3m (Full-Anechoic Chamber)							
Receiver Setup:	Frequency	Frequency Detector RBW VBW Remark						
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak		
	0.009MHz-0.090MH	0.009MHz-0.090MHz Average				Average		
	0.090MHz-0.110MHz Quasi-peak 10kHz 30kHz Qu							
	0.110MHz-0.490MH	0.110MHz-0.490MHz Pea			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		
	Above 1GHz		Peak	1MHz	3MHz	Peak		
	710070 10112		Peak	1MHz	10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2	400/F(kHz)	-	1	300		
	0.490MHz-1.705MHz	24	1000/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		500	54.0	Average	3		
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rad	20c quip	dB above the oment under t	maximum p est. This pe	ermitted ave	rage emission		



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#### Test Setup:



Antenna Tower

Antenna Tower

Ground Reference Plane

Test Receive Plane

Controller

Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

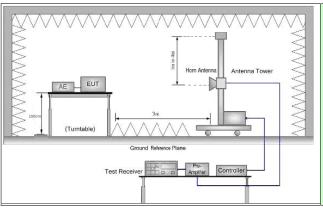


Figure 3. Above 1 GHz

#### Test Procedure:

- a. For below 1GHz, 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.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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

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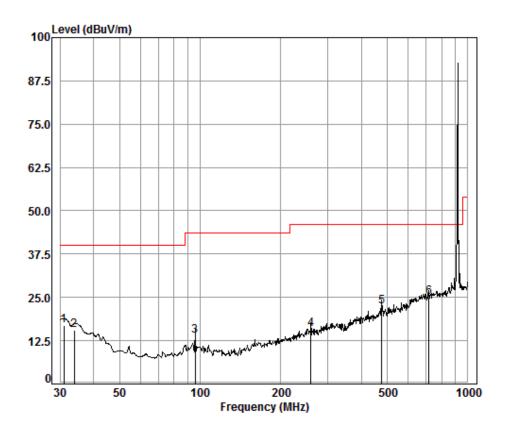
	margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.  h. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)  i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.  j. Repeat above procedures until all frequencies measured was complete.		
Exploratory Test Mode:	Transmitting with FSK modulation. Transmitting mode.		
Final Test Mode:	Transmitting with FSK modulation.  Pretest the EUT at Transmitting mode  For below 1GHz part, through pre-scan, the worst case is the lowest channel.  Only the worst case is recorded in the report.		
Instruments Used:	Refer to section 5.10 for details.		
Test Results:	Pass		



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Radiated Emission below 1GHz				
30MHz~1GHz (QP)				
Test mode:	Transmitting mode	Vertical		



Condition: 3m VERTICAL

Job No. : 8308CR Test mode: TX mode

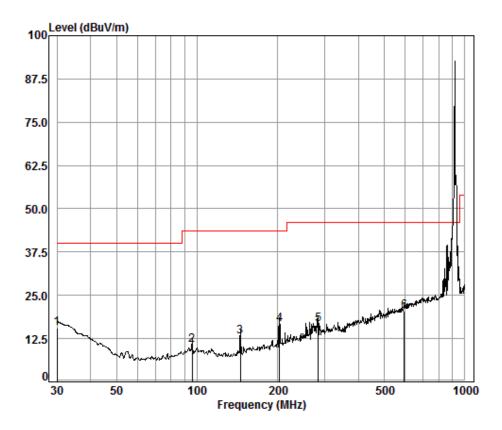
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	18.16	27.35	25.47	16.88	40.00	-23.12
2	33.92	0.60	16.51	27.34	25.65	15.42	40.00	-24.58
3	96.10	1.16	8.94	27.21	31.13	14.02	43.50	-29.48
4	259.23	1.72	12.48	26.51	28.03	15.72	46.00	-30.28
5	477.17	2.52	17.80	27.60	29.53	22.25	46.00	-23.75
6	716.68	2.96	21.60	27.39	27.94	25.11	46.00	-20.89



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Test mode:	Transmitting mode	Horizontal



Condition: 3m Horizontal

Job No. : 8308CR Test mode: TX mode

	Freq			Preamp Factor		Level		Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	18.70	27.36	23.59	15.53	40.00	-24.47
2	96.10	1.16	8.94	27.21	27.67	10.56	43.50	-32.94
3	145.35	1.31	8.58	26.93	30.08	13.04	43.50	-30.46
4	203.52	1.42	10.38	26.69	31.46	16.57	43.50	-26.93
5	283.98	1.83	13.20	26.44	28.15	16.74	46.00	-29.26
6	595.13	2.70	19.66	27.55	25.75	20.56	46.00	-25.44



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Transmitte	Transmitter Emission above 1GHz							
Test mode:		FSK	Frequ	uency:	915MHz	Rer	nark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit	Polarization
1830.00	27.18	4.84	38.09	51.08	45.01	74.00	-28.99	Vertical
2745.00	30.37	5.68	38.18	46.47	44.34	74.00	-29.66	Vertical
3660.00	32.67	6.43	38.55	44.05	44.60	74.00	-29.40	Vertical
4909.08	34.34	7.87	39.07	45.57	48.71	74.00	-25.29	Vertical
6683.44	35.63	9.23	38.58	45.04	51.32	74.00	-22.68	Vertical
9078.21	36.74	10.72	37.26	42.50	52.70	74.00	-21.30	Vertical
1348.96	25.17	4.28	38.04	44.78	36.19	74.00	-37.81	Horizontal
1830.00	27.18	4.84	38.09	49.83	43.76	74.00	-30.24	Horizontal
2745.00	30.37	5.68	38.18	50.77	48.64	74.00	-25.36	Horizontal
3660.00	32.67	6.43	38.55	44.12	44.67	74.00	-29.33	Horizontal
5236.00	34.45	8.12	39.07	45.94	49.44	74.00	-24.56	Horizontal
7709.04	36.43	9.93	37.68	44.11	52.79	74.00	-21.21	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) Scan from 9kHz to 10GHz, 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. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 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.

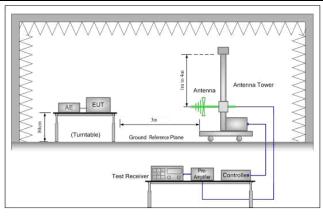


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### 6.8 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12				
Test Site:	Above 1GHz:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
	Measurement Distance: 3m	(Full-Anechoic Chamber)				
Limit:	Frequency	Limit (dBuV/m @3m)	Remark			
	30MHz-88MHz	40.0	Quasi-peak Value			
	88MHz-216MHz 43.5 Quasi-peak V					
	216MHz-960MHz	46.0	Quasi-peak Value			
	960MHz-1GHz	54.0	Quasi-peak Value			
	Above 1GHz 54.0 Average Value 74.0 Peak Value					
Test Setup:						



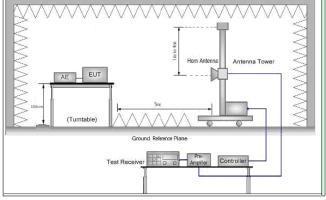


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

#### Test Procedure:

- a. For below 1GHz, 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.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel

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	<ul> <li>h. Test the EUT in the lowest channel, the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Exploratory Test	Transmitting with FSK modulation.
Mode:	Transmitting mode.
Final Test Mode:	Transmitting with FSK modulation.
	Pretest the EUT at Transmitting mode
	Only the worst case is recorded in the report.
Instruments	Refer to section 5.10 for details.
Used:	
Test Results:	Pass

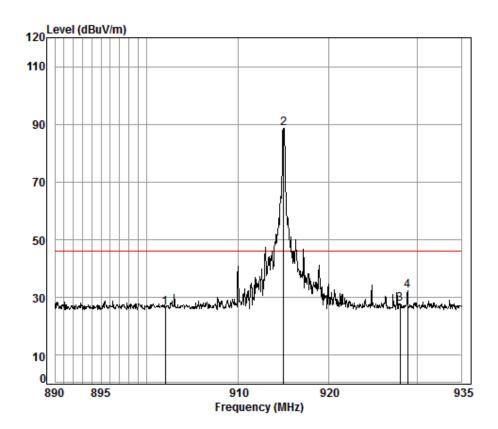


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#### Test plot as follows:

Frequency:	915MHz	Remark:	Peak	Vertical



Condition: 3m VERTICAL

Job No. : 8308CR Test mode: TX mode

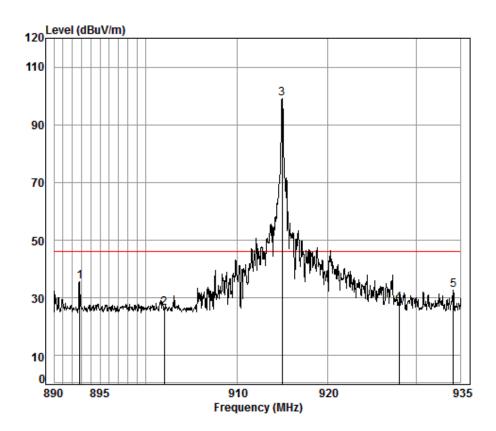
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB				dD:///m	dD.W/m	dB
	MUZ	uв	ub/m	dB	abuv	abuv/m	abuv/m	uв
1	902.00	3.60	23.21	26.75	26.53	26.59	46.00	-19.41
2 pp	915.02	3.62	23.26	26.71	88.46	88.63	46.00	42.63
3	928.00	3.63	23.30	26.64	27.55	27.84	46.00	-18.16
4	928.84	3.63	23.30	26.64	31.99	32.28	46.00	-13.72



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Frequency:   915MHz   Remark:   Peak   Horizontal	Frequency:	915MHz	Remark:	Peak	Horizontal
---------------------------------------------------	------------	--------	---------	------	------------



Condition: 3m HORIZONTAL

Job No. : 8308CR Test mode: TX mode

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	892.81	3.58	23.14	26.82	35.67	35.57	46.00	-10.43
2	902.00	3.60	23.21	26.75	26.56	26.62	46.00	-19.38
3 pp	914.97	3.62	23.26	26.71	98.98	99.15	46.00	53.15
4	928.00	3.63	23.30	26.64	27.99	28.28	46.00	-17.72
5	934.12	3.64	23.30	26.61	32.46	32.79	46.00	-13.21

#### Note:

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

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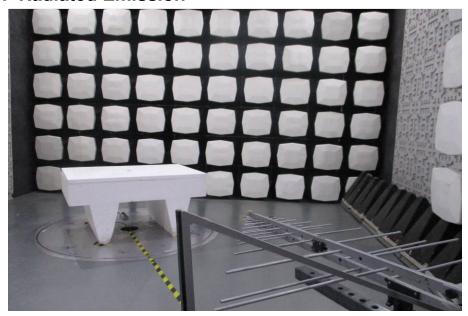
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### 7 Photographs - EUT Test Setup

Test model No.: ZM-SHAZ02W

#### 7.1 Radiated Emission



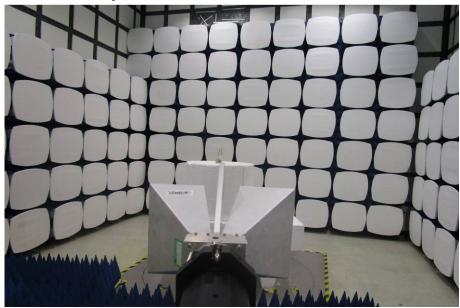




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### 7.2 Radiated Spurious Emission







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### 8 Photographs - EUT Constructional Details

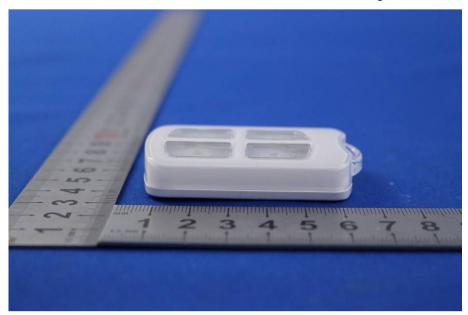


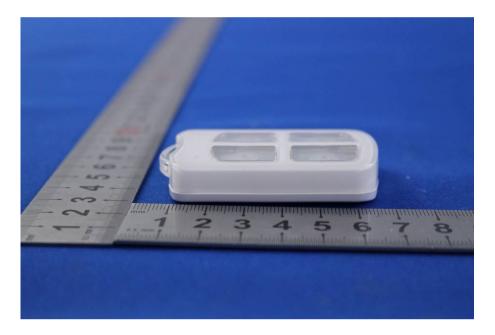




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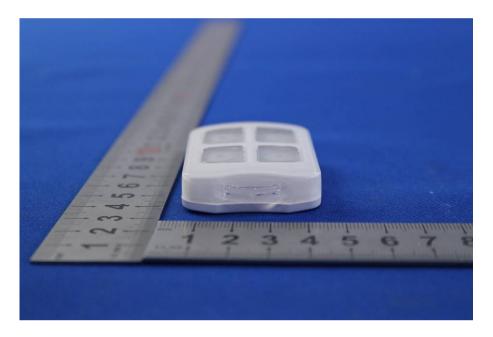




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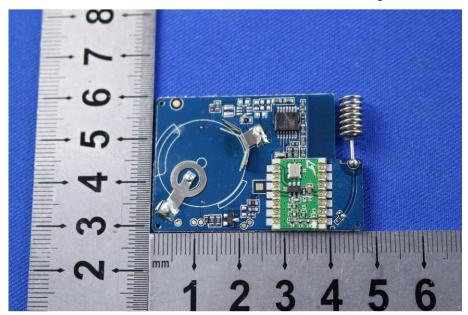


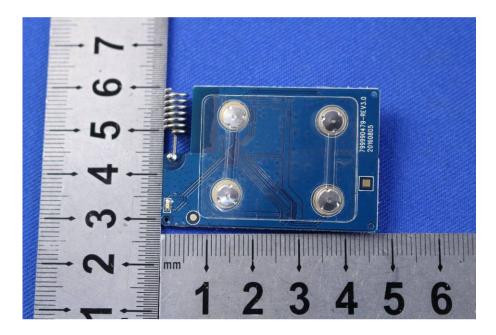




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