

FCC PART 15.249 TEST REPORT

For

Jiaxing Shufude Electric Bed Co., Ltd.

East No. 07 Provincial Road, Tengyun Village Wangjiangjing Development Zone, Jiaxing, Zhejiang, China

FCC ID: WKZ-RF358C

Report Type:		Product Type:		
Original Report		39WirelessRemote		
Test Engineer:	Matt Yao	<i>^</i>	Needt Jas	
Report Number:	RKS151119002	2-00A		
Report Date:	2015-11-23			
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Jiaxing Shufude Electric Bed Co., Ltd.'s product, model number: RF358C (FCC ID: WKZ-RF358C) (the "EUT") in this report was a Wireless Remote, was measured approximately: 152 mm (L) x56mm (W) x 19mm (H), Weight:105g, rated input voltage: DC 4.5V DC 1.5V*3 AA battery.

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All measurement and test data in this report was gathered from production sample serial number: 20151109008. (Assigned by BACL, Kunshan). The EUT was received on 2015-11-09.

Objective

This type approval report is prepared on behalf of Jiaxing Shufude Electric Bed Co., Ltd. in accordance with Part 2-Subpart J, and Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.249 rules.

Related Submittal(s)/Grant(s)

N/A.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Lab Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the Chenghu Road, Kunshan Development Zone No.248, Kunshan, Jiangsu, China.

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Justification

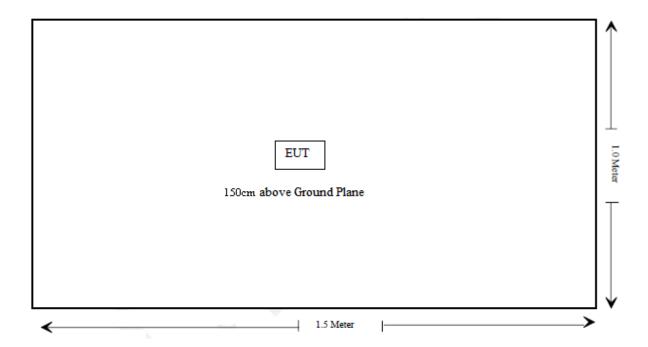
The system was configured in testing mode which was provided by manufacturer.

EUT was tested with Channel 2403MHz, 2440MHz and 2480MHz.

EUT Exercise Software

No software was used during the test.

Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conduction Emissions	Not Applicable*
15.205, §15.209, §15.249	Radiated Emissions	Compliance
§15.249(d)	Out of Band Emission	Compliance
§15.215 (c)	20 dB Bandwidth	Compliance

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^{*}Not Applicable: The EUT is battery operated equipment.

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

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Antenna Connector Construction

The EUT has one integral antenna arrangement and antenna gain is 1dBi, which was permanently attached ,fulfill the requirement of this section, please refer to the EUT photos.

Result: Compliant.

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FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS& OUT OF BAND EMISSION

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Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0-24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Kunshan) is:

30M~200MHz: 5.0 dB 200M~1GHz: 6.2 dB 1G~6GHz: 4.45 dB 6G~18GHz: 5.23 dB

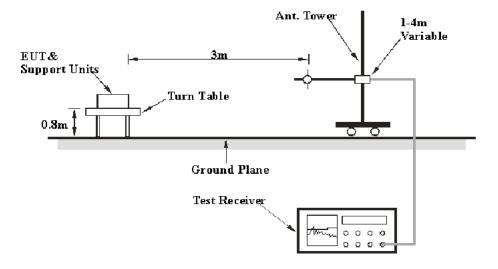
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Table 1 – Values of U_{cispr}

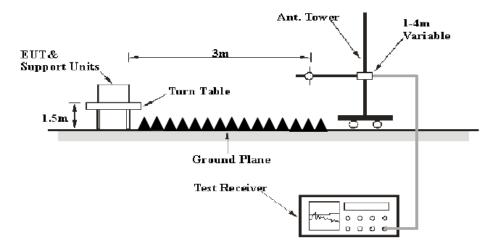
Measurement	$U_{ m cispr}$
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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Test Equipment Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 CHz	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz	/	Ave.

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Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –Corrected Amplitude

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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sonoma Instrunent	Amplifier	330	171377	2015-09-16	2016-09-16
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2015-05-20	2016-05-19
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2015-11-07	2016-11-06
ETS	Horn Antenna	3115	6229	2015-11-07	2016-11-06
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2015-11-04	2016-11-03
Mini	Pre-amplifier	ZVA-183-S+	857001418	2015-09-16	2016-09-16
R&S	Auto test Software	EMC32	V 09.10.0	-	-
BACL	RF cable	KS-LAB-012	KS-LAB-012	2015-06-16	2015-12-15

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Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249, with the worst margin reading of:

4.93 dB at 4806 MHz in the Horizontal polarization for Low Channel

Test Data

Environmental Conditions

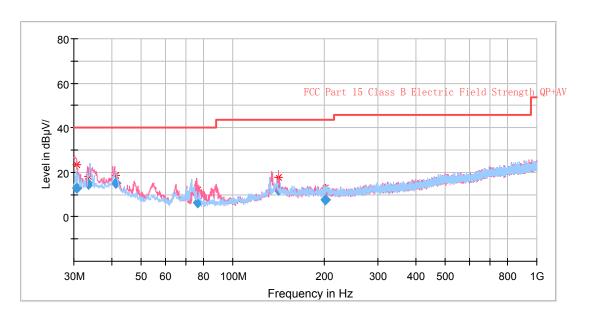
Temperature:	25.6°C
Relative Humidity:	52%
ATM Pressure:	101.2 kPa

The testing was performed by Matt Yao on 2015-11-19.

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

30MHz-1GHz:



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Frequency (MHz)	R	eceiver		Rx An	tenna	Corrected	Corrected	FCC 1 15.249/2	
	Reading (dBμV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dB µ V/m)	Margin (dB)
30.593572	23.59	QP	0.0	100.0	V	-10.5	13.09	40.00	26.91
33.565600	25.19	QP	67.0	100.0	Н	-10.4	14.79	40.00	25.21
41.120450	26.09	QP	358.0	100.0	V	-10.9	15.19	40.00	24.81
76.673000	23.41	QP	228.0	100.0	V	-17.1	6.31	40.00	33.69
141.002450	23.75	QP	290.0	100.0	V	-11.8	11.95	43.50	31.55
202.121150	19.72	QP	214.0	100.0	V	-12.3	7.42	43.50	36.08

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Test Mode: Transmitting (Scan with X, Y, Z axis, the worst case is X axis)

Frequency	R	eceiver	Turntable	Rx An	itenna	Correcte d Factor	Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	(dB)	Amplitude (dBμV/m)	Limit (dB µ V/m)	Margin (dB)
			Low Cha	annel (2403	3 MHz)				
2403	88.04	PK	160	150	V	3.0	91.04	114	22.96
2403	83.77	Ave	160	150	V	3.0	86.77	94	7.23
2403	87.02	PK	220	200	Н	3.0	90.02	114	23.98
2403	82.62	Ave	220	200	Н	3.0	85.62	94	8.38
1201	48.83	PK	288	200	Н	-2.1	46.73	74	27.27
1201	46.46	Ave	288	200	Н	-2.1	44.36	54	9.64
2326	35.21	PK	40	300	V	4.1	39.31	74	34.69
2326	21.29	Ave	40	300	V	4.1	25.39	54	28.61
2390	34.07	PK	299	100	V	4.1	38.17	74	35.83
2390	21.30	Ave	299	100	V	4.1	25.40	54	28.60
2400	46.47	PK	157	150	V	3.0	49.47	74	24.53
2400	40.52	Ave	157	150	V	3.0	43.52	54	10.48
4806	39.39	PK	202	100	Н	13.7	53.09	74	20.91
4806	35.37	Ave	202	100	Н	13.7	49.07	54	4.93
7209	29.27	PK	288	100	V	22.2	51.47	74	22.53
7209	15.25	Ave	288	100	V	22.2	37.45	54	13.48

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Frequency	Receiver		Turntable	Rx Ar			ecte Corrected	FCC Part 15.249/205/209	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	d Factor (dB)	Amplitude (dBµV/m)	Limit (dB µ V/m)	Margin (dB)
			Middle C	hannel (24	40MHz)				
2440	88.27	PK	210	150	V	3.0	91.27	114	22.73
2440	83.81	Ave	210	150	V	3.0	86.81	94	7.19
2440	87.25	PK	130	200	Н	3.0	90.25	114	23.75
2440	82.93	Ave	130	200	Н	3.0	85.93	94	8.07
1220	48.64	PK	288	200	Н	-1.9	46.74	74	27.26
1220	46.13	Ave	288	200	Н	-1.9	44.23	54	9.77
4880	38.51	PK	186	100	Н	13.9	52.41	74	21.59
4880	34.16	Ave	186	100	Н	13.9	48.06	54	5.94
6980	33.80	PK	57	200	V	19.8	53.6	74	20.40
6980	20.45	Ave	57	200	V	19.8	40.25	54	13.75
7499	30.44	PK	21	200	Н	21.4	51.84	74	22.16
7499	16.70	Ave	21	200	Н	21.4	38.10	54	15.90
7320	33.65	PK	78	200	V	20.8	54.45	74	19.55
7320	22.43	Ave	78	200	V	20.8	43.23	54	10.77
	Receiver			Rx Antenna		Correcte			
Frequency	R	eceiver	Turntable	Rx An	itenna				
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Rx An	Polar (H/V)	Correcte d Factor (dB)	Corrected Amplitude (dBµV/m)		
	Reading	Detector	Degree	Height	Polar (H/V)	d Factor	Amplitude	15.249 Limit (dB µ	/205/209 Margin
	Reading	Detector	Degree	Height (cm)	Polar (H/V)	d Factor	Amplitude	15.249 Limit (dB µ	/205/209 Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/Ave.)	Degree High Ch	Height (cm)	Polar (H/V)	d Factor (dB)	Amplitude (dBμV/m)	15.249 Limit (dB µ V/m)	/205/209 Margin (dB)
(MHz) 2480	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree High Ch	Height (cm)	Polar (H/V)	d Factor (dB)	Amplitude (dBμV/m)	15.249 Limit (dB µ V/m)	/205/209 Margin (dB)
2480 2480	Reading (dBμV) 86.50 81.69	Detector (PK/QP/Ave.) PK Ave	High Ch	Height (cm) annel (248 150 150	Polar (H/V) 0MHz) V	3.0 3.0	Amplitude (dBμV/m) 89.50 84.69	15.249 Limit (dB V/m) 114 94	/205/209 Margin (dB) 24.50 9.31
2480 2480 2480 2480	Reading (dBμV) 86.50 81.69 85.31	Detector (PK/QP/Ave.) PK Ave PK	High Ch 62 62 230	Height (cm) annel (248 150 150 200	Polar (H/V) 0MHz) V V H	3.0 3.0 3.0	Amplitude (dBμV/m) 89.50 84.69 88.31	15.249 Limit (dB µ V/m) 114 94 114	/205/209 Margin (dB) 24.50 9.31 25.69
2480 2480 2480 2480 2480	Reading (dBμV) 86.50 81.69 85.31 80.57	PK Ave PK Ave	High Ch 62 62 230 230	Height (cm) annel (248 150 150 200 200	Polar (H/V) 0MHz) V V H H	3.0 3.0 3.0 3.0 3.0	89.50 84.69 88.31 83.57	15.249 Limit (dB µ V/m) 114 94 114 94	/205/209 Margin (dB) 24.50 9.31 25.69 10.43
2480 2480 2480 2480 1238	Reading (dBμV) 86.50 81.69 85.31 80.57 47.41	PK Ave PK Ave PK	High Ch 62 62 230 230 188	Height (cm) annel (248 150 150 200 200 200	Polar (H/V) 0MHz) V V H H H	3.0 3.0 3.0 3.0 -1.8	89.50 84.69 88.31 83.57 45.61	15.249 Limit (dB µ V/m) 114 94 114 94 54	/205/209 Margin (dB) 24.50 9.31 25.69 10.43 8.39
2480 2480 2480 2480 1238 1238	Reading (dBμV) 86.50 81.69 85.31 80.57 47.41 44.24	PK Ave PK Ave PK Ave Ave	High Ch 62 62 230 230 188 188	Height (cm) annel (248 150 150 200 200 200 200	Polar (H/V) 0MHz) V V H H H	3.0 3.0 3.0 3.0 -1.8 -1.8	89.50 84.69 88.31 83.57 45.61 42.44	15.249 Limit (dB µ V/m) 114 94 114 94 74	Margin (dB) 24.50 9.31 25.69 10.43 8.39 31.56
2480 2480 2480 2480 1238 1238 2483.5	Reading (dBμV) 86.50 81.69 85.31 80.57 47.41 44.24 21.63	PK Ave PK Ave PK Ave Ave Ave Ave	High Ch 62 62 230 230 188 188 284	Height (cm) annel (248 150 150 200 200 200 200 200 200	Polar (H/V) OMHz) V V H H H H	3.0 3.0 3.0 3.0 3.0 -1.8 -1.8 4.2	89.50 84.69 88.31 83.57 45.61 42.44 25.83	15.249 Limit (dB µ V/m) 114 94 114 94 54 74 54	/205/209 Margin (dB) 24.50 9.31 25.69 10.43 8.39 31.56 28.17
2480 2480 2480 2480 1238 1238 2483.5 2483.5	Reading (dBμV) 86.50 81.69 85.31 80.57 47.41 44.24 21.63 34.82	PK Ave PK Ave PK Ave PK Ave PK Ave	High Ch 62 62 230 230 188 188 284 284	Height (cm) annel (248 150 150 200 200 200 200 200 200	Polar (H/V) OMHz) V H H H H	3.0 3.0 3.0 3.0 -1.8 -1.8 4.2 4.2	89.50 84.69 88.31 83.57 45.61 42.44 25.83 39.02	15.249 Limit (dB µ V/m) 114 94 114 94 54 74 74	/205/209 Margin (dB) 24.50 9.31 25.69 10.43 8.39 31.56 28.17 34.98
2480 2480 2480 2480 1238 1238 2483.5 2483.5 2505	Reading (dBμV) 86.50 81.69 85.31 80.57 47.41 44.24 21.63 34.82 20.48	PK Ave PK Ave PK Ave PK Ave Ave Ave Ave Ave	High Ch 62 62 230 230 188 188 284 284 225	Height (cm) annel (248 150 150 200 200 200 200 200 200	Polar (H/V) OMHz) V V H H H H V	3.0 3.0 3.0 3.0 -1.8 -1.8 4.2 4.2	89.50 84.69 88.31 83.57 45.61 42.44 25.83 39.02 24.68	15.249 Limit (dB µ V/m) 114 94 114 94 54 74 54 74 54	24.50 9.31 25.69 10.43 8.39 31.56 28.17 34.98 29.32
2480 2480 2480 2480 1238 1238 2483.5 2483.5 2505 2505	Reading (dBμV) 86.50 81.69 85.31 80.57 47.41 44.24 21.63 34.82 20.48 33.80	PK Ave	High Ch 62 62 230 230 188 188 284 284 225 225	Height (cm) annel (248 150 150 200 200 200 200 200 200	Polar (H/V) OMHz) V H H H H V V	3.0 3.0 3.0 3.0 -1.8 -1.8 4.2 4.2 4.2	89.50 84.69 88.31 83.57 45.61 42.44 25.83 39.02 24.68 38.00	15.249 Limit (dB µ V/m) 114 94 114 94 54 74 54 74	/205/209 Margin (dB) 24.50 9.31 25.69 10.43 8.39 31.56 28.17 34.98 29.32 36.00
2480 2480 2480 2480 1238 1238 2483.5 2483.5 2505 2505 4960	Reading (dBμV) 86.50 81.69 85.31 80.57 47.41 44.24 21.63 34.82 20.48 33.80 38.95	PK Ave	High Ch 62 62 230 230 188 188 284 284 225 225	Height (cm) annel (248 150 150 200 200 200 200 200 200	Polar (H/V) OMHz) V V H H H H V V V	3.0 3.0 3.0 3.0 3.0 -1.8 -1.8 4.2 4.2 4.2 4.2	89.50 84.69 88.31 83.57 45.61 42.44 25.83 39.02 24.68 38.00 52.95	15.249 Limit (dB µ V/m) 114 94 114 94 54 74 54 74 74	Margin (dB) 24.50 9.31 25.69 10.43 8.39 31.56 28.17 34.98 29.32 36.00 21.05

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FCC §15.215(c) – 20 dB BANDWIDTH TESTING

Applicable Standard

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

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Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2015-11-4	2016-11-3
Dressler	Attenuator	ATT 6/75	510020010004	2015-11-12	2016-11-12
BACL	RF cable	KS-LAB-010	KS-LAB-010	2015-06-16	2015-12-15

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25.6°C
Relative Humidity:	51 %
ATM Pressure:	101.2kPa

^{*} The testing was performed by Matt Yao on 2015-11-20.

Test Result: Compliant.

Please refer to following tables and plots

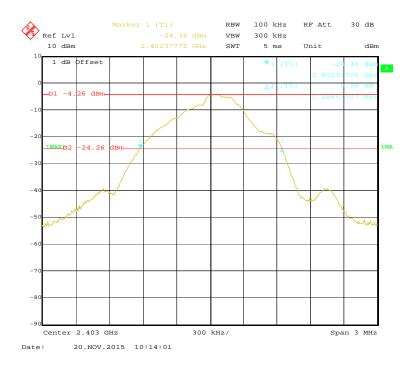
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Test Mode: Transmitting

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2403	1.27
Middle	2440	1.22
High	2480	1.26

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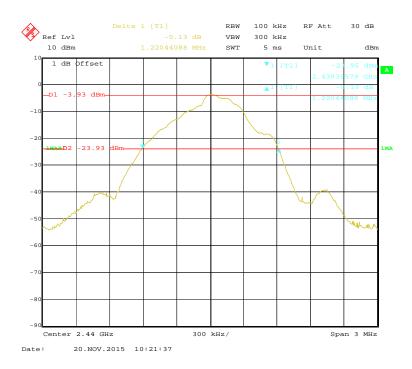
Low Channel



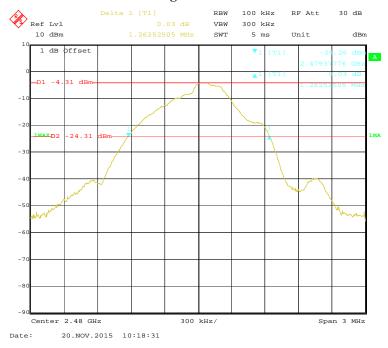
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Middle Channel

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High Channel



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

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