



APPLICATION CERTIFICATION FCC Part 15C On Behalf of Recordex USA, Inc.

> Wireless Microphone Model No.: ST-MIC-RF-T

FCC ID: 2ADKE-ST-MIC-T

Prepared for : Recordex USA, Inc.

Address : 10-50 46th Avenue, Long Island City, New York United

States 11101

Prepared by : ACCURATE TECHNOLOGY CO., LTD

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Report No. : ATE20151827

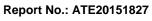
Date of Test : Aug 19-29, 2015

Date of Report : Aug 31, 2015

Report No.: ATE20151827 Page 2 of 55

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Test Report Certification

Applicant : Recordex USA, Inc.

Manufacturer : Recordex USA, Inc.

EUT Description : Wireless Microphone

(A) MODEL NO.: ST-MIC-RF-T(B) Trade Name.: RECORDEX

(C) POWER SUPPLY: 3.7V (Powered by Battery)

(D) POWER SUPPLY: Model:BYX0500600(Adapter)

INPUT: 100-240V~50/60Hz

OUTPUT: 5V/600mA

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247 ANSI C63.10: 2013

The EUT was tested according to DTS test procedure of Jun 05, 2014 KDB558074 D01 DTS Meas Guidance v03r02 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test :	Aug 19-29, 2015
Date of Report :	Aug 31, 2015
Prepared by :	Mark Ther
	(Mark Chen, Engineer)
Approved & Authorized Signer :	Lemb
	(Sean Liu, Manager)



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1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : Wireless Microphone

Model Number : ST-MIC-RF-T

Frequency Range : 2405-2480MHz

Number of Channels : 16 Antenna Gain : 2dBi

Type of Antenna : Detachable Antenna

Power Supply : 3.7V (Powered by Adapter)
Adapter : Model:BYX-0500600

INPUT:100-240V~50/60Hz

OUTPUT:5V/600mA

Adapter information : /

Data Rate : 250Mbps Modulation Type : OQPSK

Applicant : Recordex USA, Inc.

Address : 10-50 46th Avenue, Long Island City, New York United

States 11101

Manufacturer : Recordex USA, Inc.

Address : 10-50 46th Avenue, Long Island City, New York United

States 11101

Date of sample received: Aug 19, 2015
Date of Test: Aug 19-29, 2015

1.2. Accessory and Auxiliary Equipment

N/A



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1.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee

for Laboratories

The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

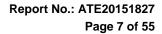
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)





2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Туре	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 11, 2015	Jan. 10, 2016
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2015	Jan. 10, 2016
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2015	Jan. 10, 2016
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 11, 2015	Jan. 10, 2016
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2015	Jan. 14, 2016
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2015	Jan. 14, 2016
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2015	Jan. 14, 2016
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2015	Jan. 14, 2016
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2015	Jan. 10, 2016
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2015	Jan. 10, 2016
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 11, 2015	Jan. 10, 2016
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 11, 2015	Jan. 10, 2016





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3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 2405MHz Middle Channel: 2440MHz High Channel: 2480MHz

3.2. Configuration and peripherals

EUT

Figure 1 Setup: Transmitting mode





4. TEST PROCEDURES AND RESULTS

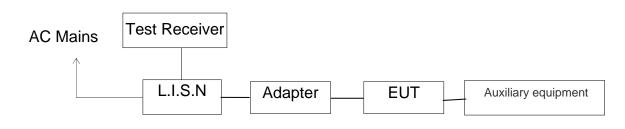
FCC Rules	Description of Test	Result
Section 15.207	Power Line Conducted Emission	Compliant
Section 15.247(a)(2)	6dB&20dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant



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5. POWER LINE CONDUCTED MEASUREMENT

5.1.Block Diagram of Test Setup



(EUT: ST-MIC-RF-T)

5.2. Power Line Conducted Emission Measurement Limits

Frequency	Limit dB(μV)				
(MHz)	Quasi-peak Level	Average Level			
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *			
0.50 - 5.00	56.0	46.0			
5.00 - 30.00	60.0	50.0			

NOTE1: The lower limit shall apply at the transition frequencies.

NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.4.2. Turn on the power of all equipment.
- 5.4.3.Let the EUT work in test mode and measure it.



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5.5.Test Procedure

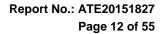
The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6. Power Line Conducted Emission Measurement Results

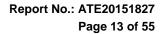
PASS





The frequency range from 150kHz to 30MHz is checked.

Test mode : Charging (120V/60HZ)										
MEASUREMENT RESULT: "RECOO3_fin"										
2015-8-21 8:44 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE			
0.158000 0.924000 24.000500	48.60 27.30 37.00	10.4 11.6 12.0	66 56 60	17.0 28.7 23.0	QP QP QP	L1 L1 L1	GND GND GND			
MEASUREMENT	RESULT:	"RECO	03_fin	2"						
2015-8-21 8:44 Frequency MHz					Detector	Line	PE			
0.332000 2.027000 24.000500	31.40 15.50 30.40	11.1 11.7 12.0	49 46 50	18.0 30.5 19.6	ΑV	L1 L1 L1	GIND			
MEASUREMENT	RESULT	: "RECO	04_fiı	1"						
2015-8-21 8:4 Frequency MHz				Margin dB	Detector	Line	PE			
0.156000 0.920000 24.000500	47.10 33.00 37.50	10.4 11.6 12.0	66 56 60	18.6 23.0 22.5	QP QP QP	N N N	GND GND GND			
MEASUREMENT	RESULT	: "RECO	04_fiı	12"						
2015-8-21 8:4 Frequency MHz				Margin dB	Detector	Line	PE			
0.328000 0.920000 24.000500	23.70	11.1 11.6 12.0	46	22.3	AV	N N N	GND GND GND			

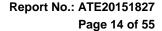




Test mode : 0	Test mode : Charging (240V/60HZ)									
ME' A CITOFME NO	DECTIT TO	יישקאר יי	02 fin	,,						
MEASUREMENT RESULT: "WMI002_fin"										
2015-8-26 17:0 Frequency MHz		dB	dΒμV	dB		Line	PE			
0.166000 0.768000 2.157500 28.190000	44.50 34.50 30.20 25.50	10.4 11.5 11.7 12.0	65 56 56 60	20.7 21.5 25.8 34.5	QP QP QP QP	L1 L1 L1 L1	GND GND GND GND			
MEASUREMENT RESULT: "WMI002_fin2"										
2015-8-26 17:0										
Frequency MHz	Level dBµV	Transd dB	Limit dBµV		Detector	Line	PE			
0.330000 0.784000 2.463500 28.536500	35.00 28.00 23.10 14.20	11.1 11.6 11.7 12.0	50 46 46 50	14.5 18.0 22.9 35.8	AV AV AV AV	L1 L1 L1 L1	GND GND GND GND			
MEASUREMENT 2015-8-26 17:		': "WMIC	001_fi	n"						
Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE			
0.166000 0.828000 2.153000 29.976500	46.50 29.40 29.30 25.20	10.4 11.6 11.7 12.0	65 56 56 60	18.7 26.6 26.7 34.8	QP OP	N N N	GND GND GND GND			
MEASUREMENT	RESULT	': "WMIC	001_fi	n2"						
2015-8-26 17 : Frequency MHz	Level	Transd dB			Detector	Line	PE			
0.332000 2.094500 2.405000 28.770500	31.70 16.80 14.80 11.80	11.1 11.7 11.7 12.0	49 46 46 50	17.7 29.2 31.2 38.2	AV AV	N N N N	GND GND GND GND			

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.





ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Wireless Microphone M/N:ST-MIC-RF-T

Manufacturer: Recordex Operating Condition: Charging

Test Site: 2#Shielding Room

Operator: star

Test Specification: L 120V/60Hz

Report No.:ATE20151827 Comment: Start of Test: 2015-8-21 / 8:42:55

SCAN TABLE: "V 150K-30MHz fin"

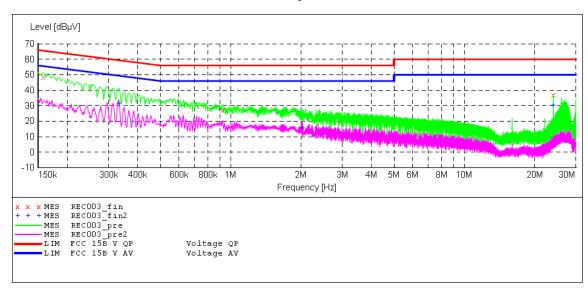
_SUB_STD_VTERM2 1.70 Short Description:

Start Stop Step Detector Meas. ΙF Transducer

Width Bandw. Time

Frequency Frequency 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)

Average

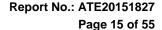


MEASUREMENT RESULT: "REC003 fin"

2015-8-21 8:44 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.158000	48.60	10.4	66	17.0	QP	L1	GND
0.924000	27.30	11.6	56	28.7	QP	L1	GND
24.000500	37.00	12.0	60	23.0	QP	L1	GND

MEASUREMENT RESULT: "REC003 fin2"

2015-8-21 8:44 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.332000	31.40	11.1	49	18.0	AV	L1	GND
2.027000	15.50	11.7	46	30.5		L1	GND
24.000500	30.40	12.0	50	19.6		L1	GND





ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Wireless Microphone M/N:ST-MIC-RF-T

Manufacturer: Recordex Operating Condition: Charging

Test Site: 2#Shielding Room

Operator: star

Test Specification: N 120V/60Hz

Comment: Report No.:ATE20151827 2015-8-21 / 8:45:20 Start of Test:

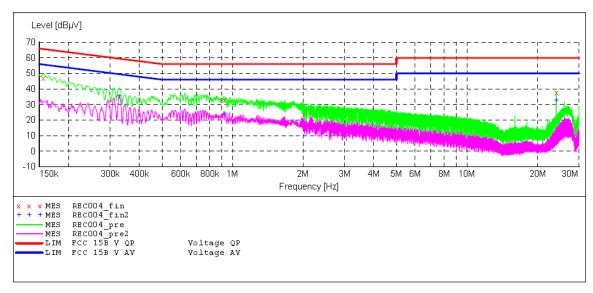
SCAN TABLE: "V 150K-30MHz fin" Short Description: _SUB_S _SUB_STD_VTERM2 1.70

Start Stop Detector Meas. ΙF Step Transducer

Frequency Frequency Width Time Bandw.

9 kHz 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s LISN (ESH3-Z5)

Average

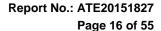


MEASUREMENT RESULT: "RECO04 fin"

2015-8-21	8:46						
Frequen	icy Le	vel Trans	d Limit	Margin	Detector	Line	PE
M	Hz di	BµV di	B dBµV	dB			
0.1560	00 47	.10 10.	4 66	18.6	QP	N	GND
0.9200	00 33	.00 11.	6 56	23.0	QP	N	GND
24.0005	00 37	.50 12.	0 60	22.5	QP	N	GND

MEASUREMENT RESULT: "REC004 fin2"

2015-8-21 8:4	-	m	T 2 2 L	M	D-++	T	DE
Frequency MHz	Level dBuV	Transd dB	dBuV	Margin dB	Detector	Line	PE
0.328000	35.40	11.1	50	14.1	AV	N	GND
0.920000	23.70	11.6	46	22.3	AV	N	GND
24.000500	32.80	12.0	50	17.2	AV	N	GND





ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Wireless Microphone M/N:ST-MIC-T

Manufacturer: Recordex Operating Condition: Charging

Test Site: 2#Shielding Room

Operator: Star

Test Specification: L 240V/60Hz

Comment: Report No.:ATE20151827 Start of Test: 2015-8-26 / 17:08:15

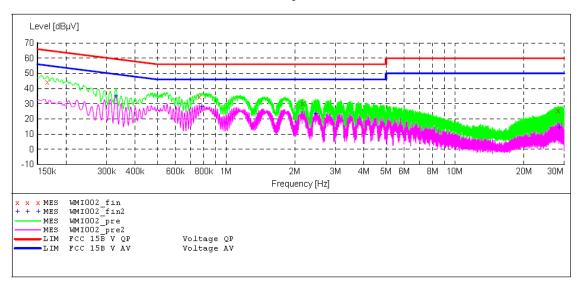
SCAN TABLE: "V 150K-30MHz fin"

Short Description: __SUB_STD_VTERM2 1.70

Start Stop Step Detector Meas. IF Transducer

Frequency Frequency Width Time Bandw.
150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Ãverage



MEASUREMENT RESULT: "WMI002 fin"

17:09						
2			_	Detector	Line	PΕ
Hz dBµ\	/ dB	dΒμV	dB			
00 44.50	10.4	65	20.7	OP	L1	GND
00 34.50	11.5	56	21.5	Q̃Ρ	L1	GND
00 30.20	11.7	56	25.8	QΡ	L1	GND
00 25.50	12.0	60	34.5	QP	L1	GND
	cy Level Hz dBμV 00 44.50 00 34.50 00 30.20	cy Level Transd Hz dBμV dB 00 44.50 10.4 00 34.50 11.5 00 30.20 11.7	Cy Level Transd Limit Hz dBμV dB dBμV 00 44.50 10.4 65 00 34.50 11.5 56 00 30.20 11.7 56	Cy Level Transd Limit Margin Hz dBμV dB dBμV dB 00 44.50 10.4 65 20.7 00 34.50 11.5 56 21.5 00 30.20 11.7 56 25.8	Cy Level Transd Limit Margin Detector Hz dBμV dB dBμV dB 00 44.50 10.4 65 20.7 QP 00 34.50 11.5 56 21.5 QP 00 30.20 11.7 56 25.8 QP	Cy Level Transd Limit Margin Detector Line Hz dBμV dB dBμV dB 00 44.50 10.4 65 20.7 QP L1 00 34.50 11.5 56 21.5 QP L1 00 30.20 11.7 56 25.8 QP L1

MEASUREMENT RESULT: "WMI002 fin2"

2015-8-26 17:	09						
Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
	,						
0.330000	35.00	11.1	50	14.5	AV	L1	GND
0.784000	28.00	11.6	46	18.0	AV	L1	GND
2.463500	23.10	11.7	46	22.9	AV	L1	GND
28.536500	14.20	12.0	50	35.8	AV	L1	GND





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ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

Wireless Microphone M/N:ST-MIC-T

Manufacturer: Recordex Operating Condition: Charging

Test Site: 2#Shielding Room

Operator: Star

Test Specification: N 240V/60Hz

Report No.:ATE20151827 Comment: Start of Test: 2015-8-26 / 17:03:59

SCAN TABLE: "V 150K-30MHz fin" Short Description: _SUB_S

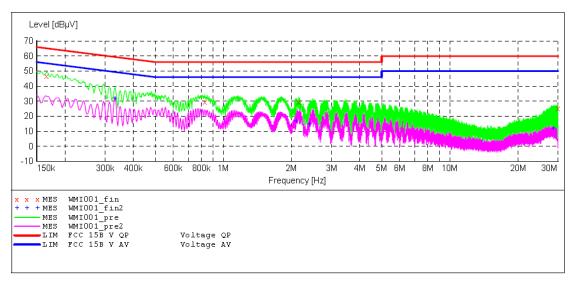
______SUB_STD_VTERM2 1.70

Start Stop Step Detector Meas. ΙF Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 ki Time Bandw.

4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Äverage



MEASUREMENT RESULT: "WMI001 fin"

2	015-8-26 17:	07						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
	MHz	dΒμV	dB	dΒμV	dB			
	0.166000	46.50	10.4	65	18.7	OP	N	GND
	0.828000	29.40	11.6	56	26.6	~	N	GND
	2.153000	29.30	11.7	56	26.7	Q̃Ρ	N	GND
	29.976500	25.20	12.0	60	34.8	OP	N	GND

MEASUREMENT RESULT: "WMI001 fin2"

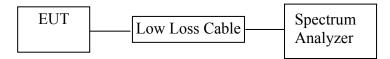
2015-8-26 1	.7:07						
Frequency	Level	Transd	Limit	Marqin	Detector	Line	PΕ
MHz	: dBuV	dB	dΒμV	ďB			
	'						
0.332000	31.70	11.1	49	17.7	AV	N	GND
2.094500	16.80	11.7	46	29.2	AV	N	GND
2.405000	14.80	11.7	46	31.2	AV	N	GND
28.770500	11.80	12.0	50	38.2	AV	N	GND



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6. 6DB&20DB BANDWIDTH MEASUREMENT

6.1.Block Diagram of Test Setup



6.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a) (2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.3.EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT and simulator as shown as Section 5.1.
- 6.4.2. Turn on the power of all equipment.
- 6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2405-2480. We select 2405MHz, 2440MHz, 2480MHz TX frequency to transmit.

6.5. Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz.
- 2. Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

20dB bandwidth

- 1. Set resolution bandwidth (RBW) = 1%-5% OBW.
- 2. Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- 3. Detector = Peak.



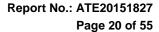
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- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the -20 dB levels with respect to the reference level

6.6. Test Result

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2405	1.74	2.97	> 0.5MHz
Middle	2440	1.73	2.70	> 0.5MHz
High	2480	1.64	2.72	> 0.5MHz

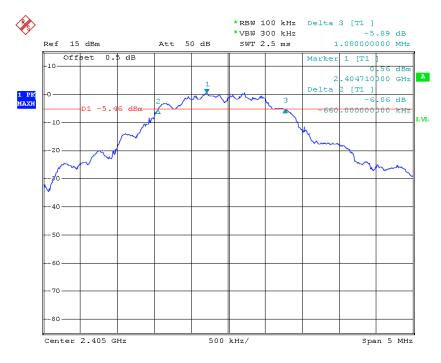




The spectrum analyzer plots are attached as below.

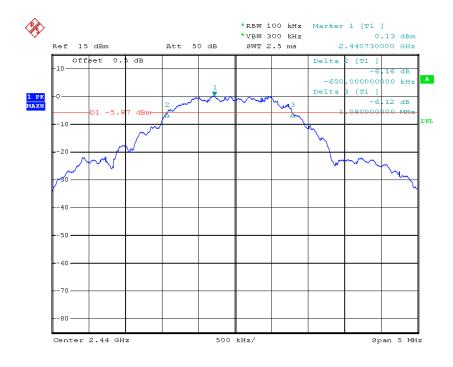
6dB Bandwidth

Channel Low 2405MHz

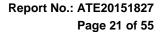


Date: 22.AUG.2015 14:20:35

Channel Middle 2440MHz



Date: 22.AUG.2015 14:21:57



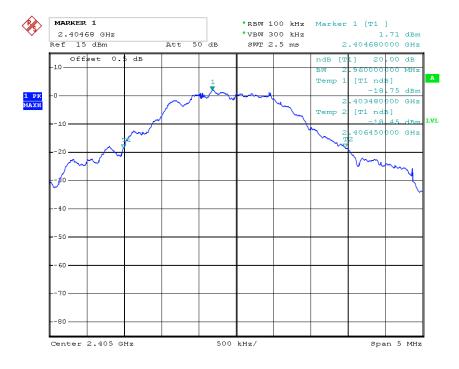


Channel High 2480MHz

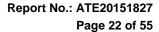


Date: 22.AUG.2015 14:23:52

20dB Bandwidth Channel Low 2405MHz



Date: 22.AUG.2015 14:24:52

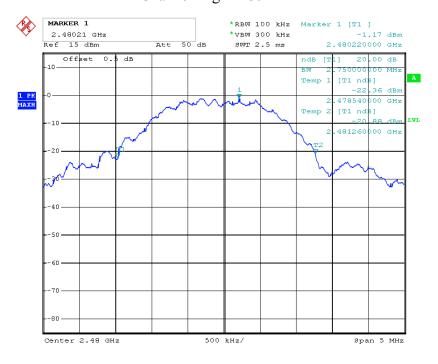




Channel Middle 2440MHz



Channel High 2480MHz



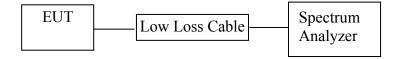
Date: 22.AUG.2015 14:29:40



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7. MAXIMUM CONDUCTED (PEAK) OUTPUT POWER

7.1.Block Diagram of Test Setup



7.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

7.3.EUT Configuration on Measurement

The equipment is installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

- 7.4.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.4.2. Turn on the power of all equipment.
- 7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2405-2480MHzMHz. We select 2405MHz, 2440MHz, 2480MHz TX frequency to transmit

7.5. Test Procedure

- 7.5.1.The EUT was tested according to DTS test procedure of Jun 05, 2014 KDB558074 D01 DTS Meas Guidance v03r02 for compliance to FCC 47CFR 15.247 requirements.
- 7.5.2. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 7.5.3.Set the RBW \geq *DTS bandwidth*, Set VBW \geq 3 × RBW. Set span \geq 3 x RBW, Sweep time = auto, Detector = peak, Trace mode = max hold, Allow trace to fully stabilize, Use peak marker function to determine the peak amplitude level.
- 7.5.4. Measurement the Maximum conducted (Peak) output power.



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7.6.Test Result

Channel	Frequency (MHz)	Peak output power (dBm)	Peak output power (mW)	Limits dBm / W
Low	2405	1.49	1.41	30 dBm / 1 W
Middle	2440	3.57	2.28	30 dBm / 1 W
High	2480	1.16	1.31	30 dBm / 1 W

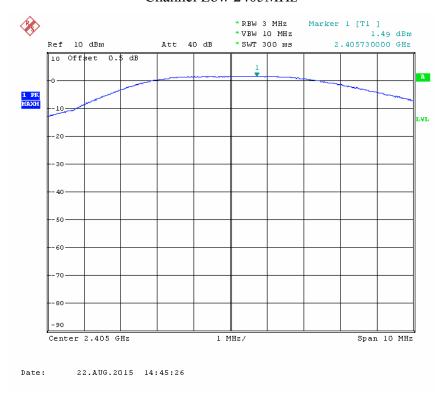
The spectrum analyzer plots are attached as below.



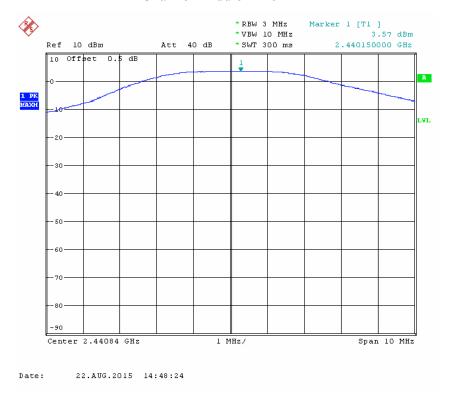


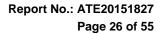
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Channel Low 2405MHz

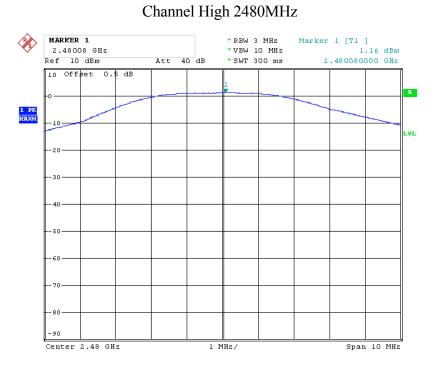


Channel Middle 2440MHz









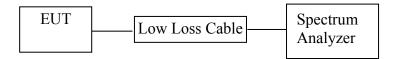
22.AUG.2015 14:53:23



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8. POWER SPECTRAL DENSITY MEASUREMENT

8.1.Block Diagram of Test Setup



8.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

- 8.4.1. Setup the EUT and simulator as shown as Section 8.1.
- 8.4.2. Turn on the power of all equipment.
- 8.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2405-2480MHz. We select 2405MHz, 2440MHz, 2480MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2.Measurement Procedure PKPSD:

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.



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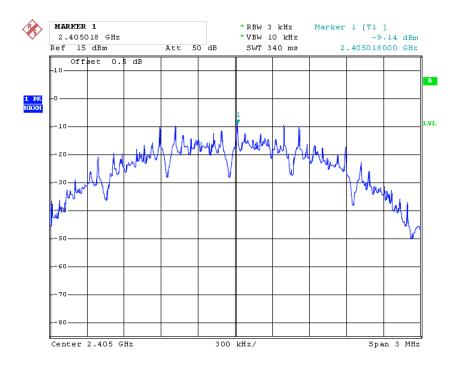
- 3. Set the RBW 3 kHz \leq RBW \leq 100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 8.5.3.Measurement the maximum power spectral density.

8.6. Test Result

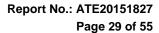
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2405	-9.14	8 dBm
Middle	2440	-10.44	8 dBm
High	2480	-10.20	8 dBm

The spectrum analyzer plots are attached as below.

Channel Low 2405MHz

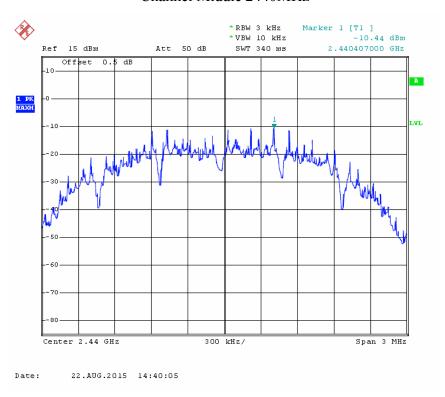


Date: 22.AUG.2015 14:38:21

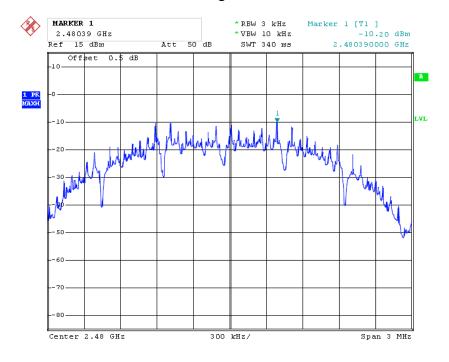




Channel Middle 2440MHz



Channel High 2480MHz



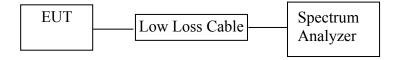
Date: 22.AUG.2015 14:42:25



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9. BAND EDGE COMPLIANCE TEST

9.1.Block Diagram of Test Setup



9.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4. Operating Condition of EUT

- 9.4.1. Setup the EUT and simulator as shown as Section 9.1.
- 9.4.2. Turn on the power of all equipment.
- 9.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2405-2480MHz MHz. We select 2405MHz, 2480MHz, TX frequency to transmit.



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9.5. Test Procedure

Conducted Band Edge:

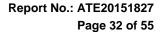
- 9.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 9.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

- 9.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 9.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 9.5.5.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 9.5.6.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
- 9.5.7.RBW=1MHz, VBW=1MHz
- 9.5.8. The band edges was measured and recorded.

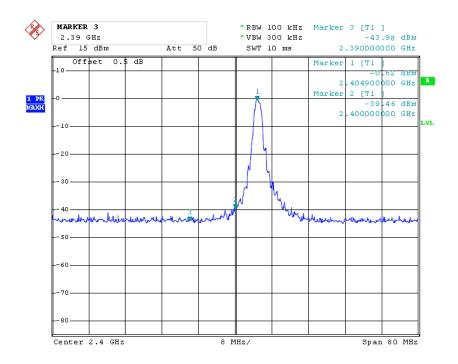
9.6 Test Result

Frequency	Result of Band Edge	Limit of Band Edge
(MHz)	(dBc)	(dBc)
2405	38.84	> 20dBc
2480	35.98	> 20dBc



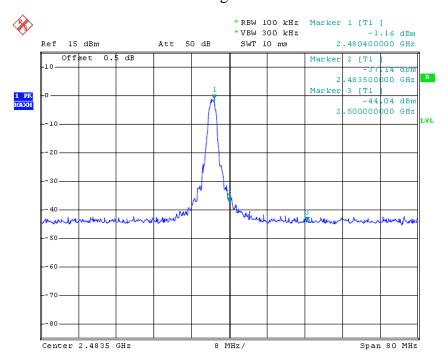


Channel Low 2405MHz



Date: 22.AUG.2015 14:34:17

Channel High 2480MHz



Date: 21.AUG.2015 14:35:51



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Radiated Band Edge Result

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
 - Result = Reading + Corrected Factor
- 3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX modes then measure it. We select 2405MHz, 2480MHz TX frequency to transmit

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz
- 3. All modes of operation were investigated and the worst-case emissions are reported.



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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Polarization: Horizontal Power Source: DC 3.7V

Date: 2015/08/31 Time: 14:21:49

Engineer Signature: Star

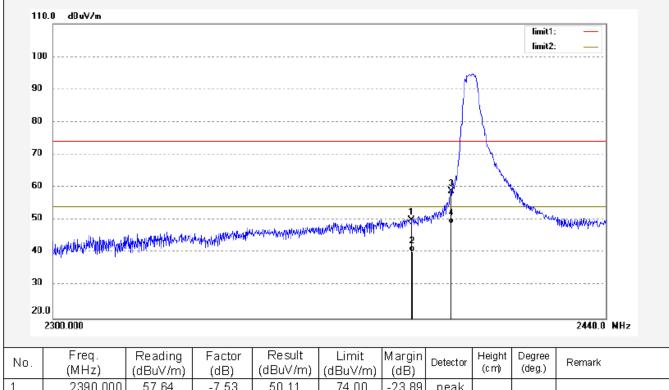
Distance: 3m

Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wireless Microphone

Mode: TX 2405MHz Model: ST-MIC-RF-T Manufacturer: Recordex

Job No.: STAR2015 #539

Note: Report NO.:ATE20151827



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	57.64	-7.53	50.11	74.00	-23.89	peak			
2	2390.000	47.90	-7.53	40.37	54.00	-13.63	AVG			
3	2400.000	66.37	-7.46	58.91	74.00	-15.09	peak			
4	2400.000	56.48	-7.46	49.02	54.00	-4.98	AVG			

Note: Average measurement with peak detection at No.2&4





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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R.China

Site: 2# Chamber Tel:+86-0755-26503290 Fax: +86-0755-26503396

Standard: FCC PK

Test item: Radiation Test

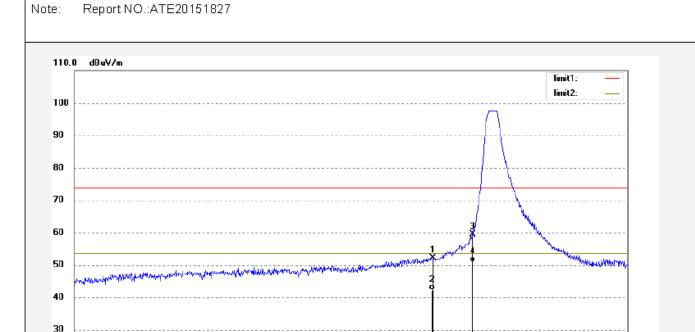
Temp.(C)/Hum.(%) 23 C / 48 % EUT: Wireless Microphone

Mode: TX 2405MHz Model: ST-MIC-RF-T Manufacturer: Recordex

Polarization: Vertical Power Source: DC 3.7V

Date: 2015/08/31 Time: 14:18:27 Engineer Signature:

Star Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	60.30	-7.53	52.77	74.00	-21.23	peak			
2	2390.000	50.46	-7.53	42.93	54.00	-11.07	AVG			
3	2400.000	67.39	-7.46	59.93	74.00	-14.07	peak			
4	2400.000	58.91	-7.46	51.45	54.00	-2.55	AVG			

Note: Average measurement with peak detection at No.2&4

2300.000

2440.0 MHz



Site: 2# Chamber

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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Fax:+86-0755-26503396

Job No.:STAR2015 #540Polarization:HorizontalStandard:FCC PKPower Source:DC 3.7V

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Wireless Microphone

Mode: TX 2480MHz

Model: ST-MIC-RF-T

Manufacturer: Recordex

Test item: Radiation Test

Note: Report NO.:ATE20151827

Date: 2015/08/31
Time: 14:24:47
Engineer Signature:

Distance: 3m

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	69.59	-7.37	62.22	74.00	-11.78	peak			
2	2483.500	58.60	-7.37	51.23	54.00	-2.77	AVG			
3	2500.000	53.90	-7.40	46.50	74.00	-27.50	peak			
4	2500.000	43.82	-7.40	36.42	54.00	-17.58	AVG			

Note: Average measurement with peak detection at No.2&4



ATC[®]

Standard: FCC PK

EUT:

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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Polarization: Vertical Power Source: DC 3.7V

Report No.: ATE20151827

Site: 2# Chamber

Tel:+86-0755-26503290

Fax: +86-0755-26503396

Date: 2015/08/31 Time: 14:27:50 Engineer Signature: Distance: 3m

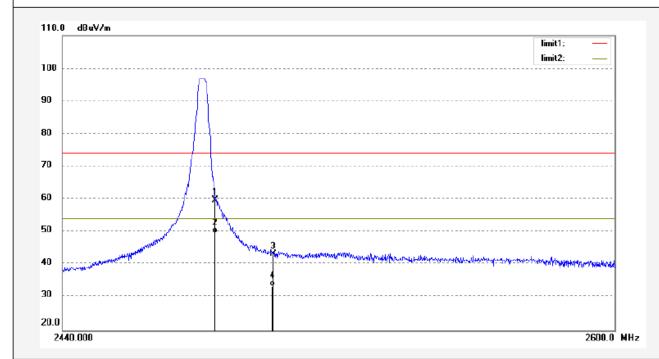
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %

Wireless Microphone

Mode: TX 2480MHz Model: ST-MIC-RF-T Manufacturer: Recordex

Job No.: STAR2015 #541

Note: Report NO.:ATE20151827



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	67.08	-7.37	59.71	74.00	-14.29	peak			
2	2483.500	57.00	-7.37	49.63	54.00	-4.37	AVG			
3	2500.000	50.64	-7.40	43.24	74.00	-30.76	peak			
4	2500.000	40.69	-7.40	33.29	54.00	-20.71	AVG			

Note: Average measurement with peak detection at No.2&4

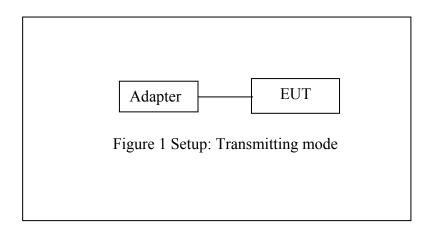


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10. RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

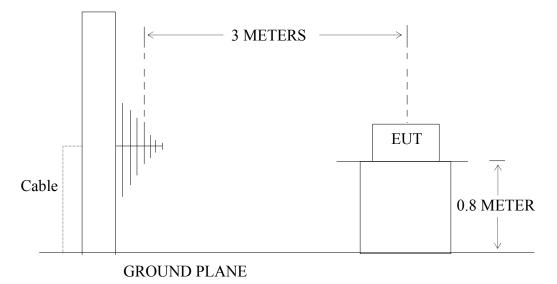
10.1.1.Block diagram of connection between the EUT and peripherals



10.1.2.Semi-Anechoic Chamber Test Setup Diagram

Below 1GHz

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS

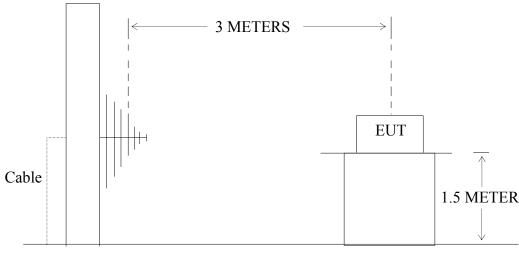




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Above 1GHz

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



GROUND PLANE

10.2. The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).



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10.3. Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	$\binom{2}{2}$
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

²Above 38.6



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10.5. Operating Condition of EUT

- 10.5.1. Setup the EUT and simulator as shown as Section 10.1.
- 10.5.2. Turn on the power of all equipment.
- 10.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2405-2480MHz. We select 2405MHz, 2440MHz, 2480MHz TX frequency to transmit.

10.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The frequency range from 30MHz to 25000MHz is checked.

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.



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10.7. The Field Strength of Radiation Emission Measurement Results

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

- 2. *: Denotes restricted band of operation.
- 3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.
- 4. The EUT is tested radiation emission at each test mode (TX) in three axes. The worst emissions are reported in all test mode and channels.
 - 5. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.



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Below 1G



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Polarization: Horizontal

Distance: 3m

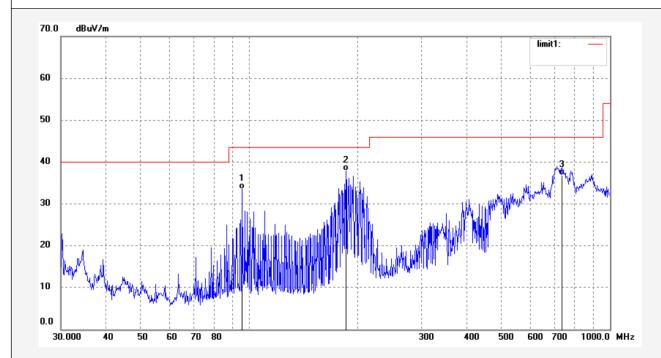
Standard: FCC Class B 3M Radiated Power Source: DC 3.7V
Test item: Radiation Test Date: 15/08/21/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/33/43
EUT: Wireless Microphone Engineer Signature:

Mode: TX 2405MHz

Model: ST-MIC-RF-T

Manufacturer: Recordex

Job No.: STAR2015 #1688



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	95.6485	55.00	-21.48	33.52	43.50	-9.98	QP			
2	185.1626	57.76	-19.85	37.91	43.50	-5.59	QP			
3	736.6209	43.86	-7.07	36.79	46.00	-9.21	QP			



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Distance: 3m

Job No.: STAR2015 #1687 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3.7V

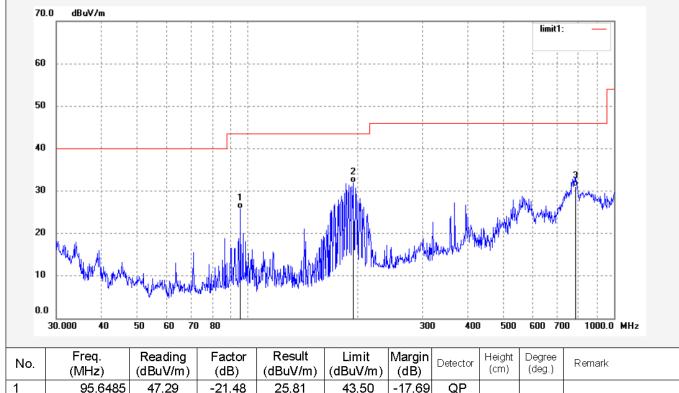
Test item: Radiation Test Power Source: DC

Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/32/09
EUT: Wireless Microphone Engineer Signature:

Mode: TX 2405MHz

Model: ST-MIC-RF-T

Manufacturer: Recordex



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	95.6485	47.29	-21.48	25.81	43.50	-17.69	QP			
2	193.8163	50.99	-19.08	31.91	43.50	-11.59	QР			
3	787.4749	37.15	-6.10	31.05	46.00	-14.95	QP			



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Polarization: Horizontal Power Source: DC 3.7V

Date: 15/08/21/

Time: 9/35/34 Star

Engineer Signature:

Distance: 3m

Job No.: STAR2015 #1689

Standard: FCC Class B 3M Radiated

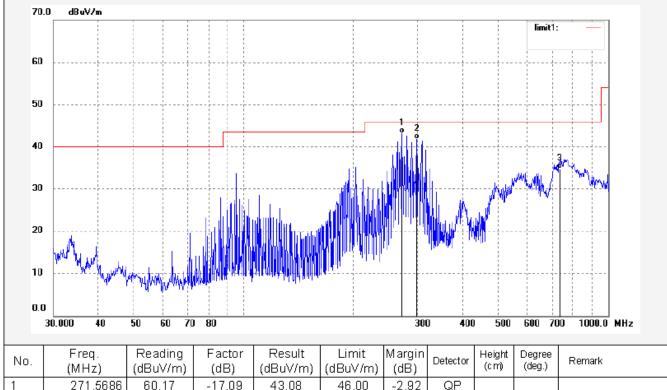
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Wireless Microphone

Mode: TX 2440MHz

Model: ST-MIC-RF-T

Manufacturer: Recordex



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	271.5686	60.17	-17.09	43.08	46.00	-2.92	QP			
2	298.5932	57.96	-16.30	41.66	46.00	-4.34	QP			
3	736.6209	41.84	-7.07	34.77	46.00	-11.23	QP			



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Job No.: STAR2015 #1690

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Wireless Microphone

Mode: TX 2440MHz

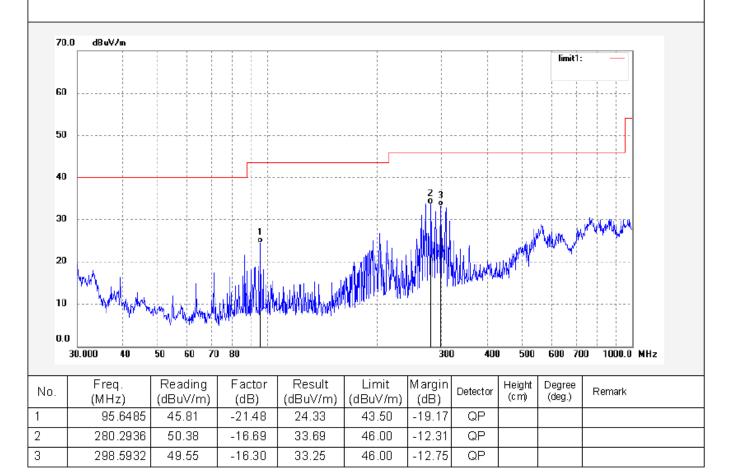
Model: ST-MIC-RF-T

Manufacturer: Recordex

Note: Report No.:ATE20151827

Polarization: Vertical Power Source: DC 3.7V

Date: 15/08/21/ Time: 9/36/22 Engineer Signature: Distance: 3m





Site: 1# Chamber

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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Polarization: Horizontal Power Source: DC 3.7V

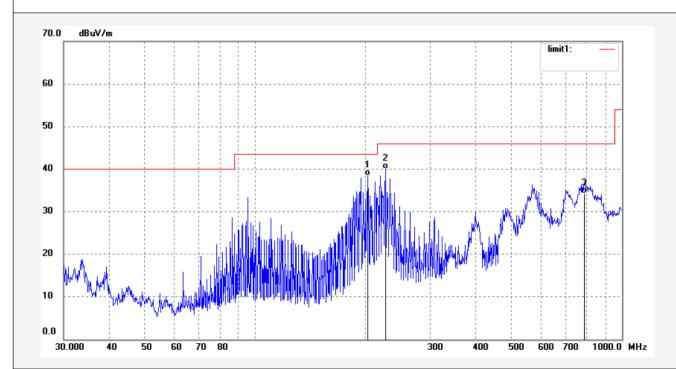
Date: 15/08/21/
Time: 9/39/19
Engineer Signature:
Distance: 3m

Job No.: STAR2015 #1692 Standard: FCC Class B 3M Radiated

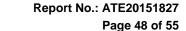
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Wireless Microphone

Mode: TX 2480MHz
Model: ST-MIC-RF-T
Manufacturer: Recordex



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	202.8745	56.93	-18.60	38.33	43.50	-5.17	QP			
2	226.2202	58.40	-18.35	40.05	46.00	-5.95	QP			
3	790.2466	40.23	-6.05	34.18	46.00	-11.82	QP			



Site: 1# Chamber



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Job No.: STAR2015 #1691

Standard: FCC Class B 3M Radiated

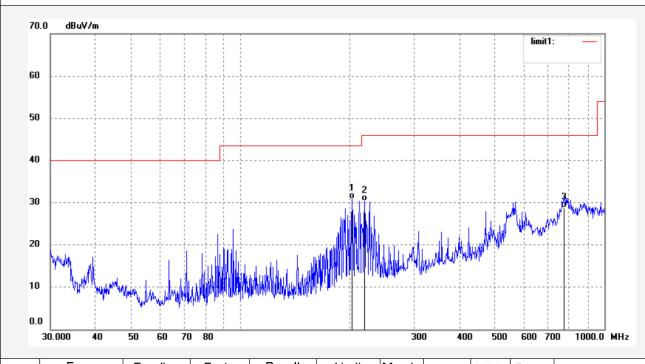
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Wireless Microphone

Mode: TX 2480MHz Model: ST-MIC-RF-T Manufacturer: Recordex

Note: Report No.:ATE20151827 Polarization: Vertical Power Source: DC 3.7V

Date: 15/08/21/ Time: 9/37/34 Engineer Signature: Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	202.8745	49.51	-18.60	30.91	43.50	-12.59	QP			
2	219.1785	48.83	-18.40	30.43	46.00	-15.57	QP			
3	773.7614	35.12	-6.35	28.77	46.00	-17.23	QP			



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Above 1G



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Polarization: Horizontal Power Source: DC 3.7V

Date: 15/08/21/ Time: 9/57/47 Engineer Signature:

Distance: 3m

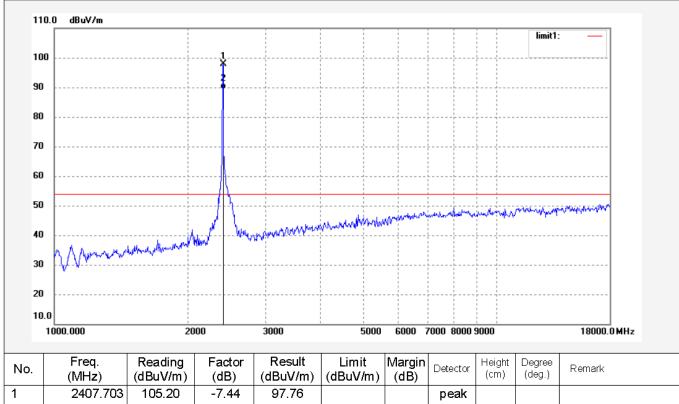
Job No.: STAR2015 #513 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Wireless Microphone

Mode: TX 2405MHz Model: ST-MIC-RF-T Manufacturer: Recordex

Note: Report NO .: ATE20151827



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2407.703	105.20	-7.44	97.76			peak			
2	2407.703	96.87	-7.44	89.43			AVG			



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Report No.: ATE20151827

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Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT:

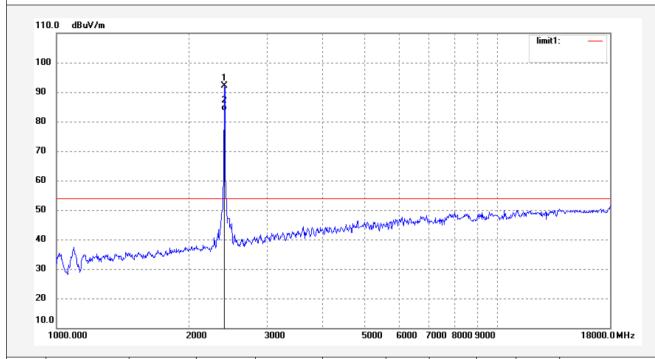
Mode: TX 2405MHz Model: ST-MIC-RF-T Manufacturer: Recordex

Wireless Microphone

Note: Report NO .: ATE20151827 Polarization: Vertical

Power Source: DC 3.7V

Date: 15/08/21/ Time: 9/56/25 Engineer Signature: Distance: 3m



Science & Industry Park, Nanshan Shenzhen, P.R. China

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2400.753	99.62	-7.46	92.16			peak				
2	2400.753	91.13	-7.46	83.67			AVG				



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> Polarization: Horizontal Power Source: DC 3.7V

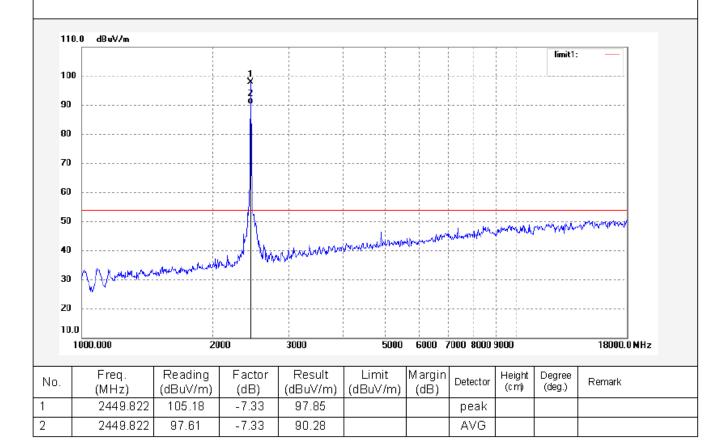
> > Date: 15/08/21/
> > Time: 10/03/54
> > Engineer Signature:
> > Distance: 3m

Standard: FCC Class B 3M Radiated
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Wireless Microphone

STAR2015 #514

Mode: TX 2440MHz Model: ST-MIC-RF-T Manufacturer: Recordex





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Site: 1# Chamber Tel:+86-0755-26503290 Fax: +86-0755-26503396

Job No.: STAR2015 #515

Standard: FCC Class B 3M Radiated

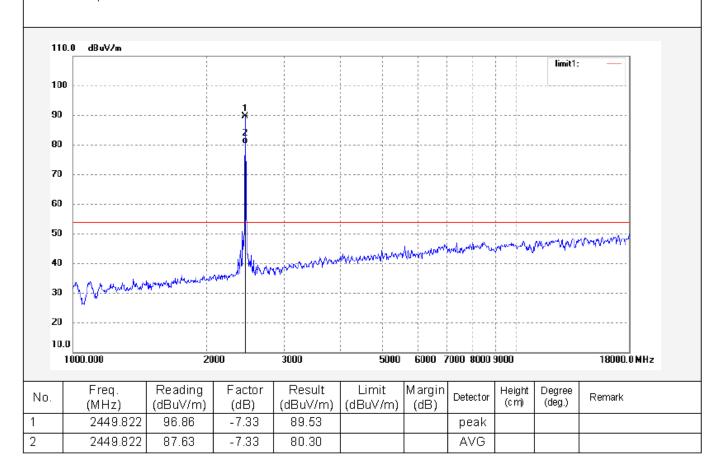
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Wireless Microphone

Mode: TX 2440MHz Model: ST-MIC-RF-T Manufacturer: Recordex

Note: Report NO::ATE20151827 Polarization: Vertical Power Source: DC 3.7V

Date: 15/08/21/ Time: 10/07/55 Engineer Signature: Distance: 3m





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> Polarization: Horizontal Power Source: DC 3.7V

Date: 15/08/21/ Time: 10/12/08 Engineer Signature: Distance: 3m

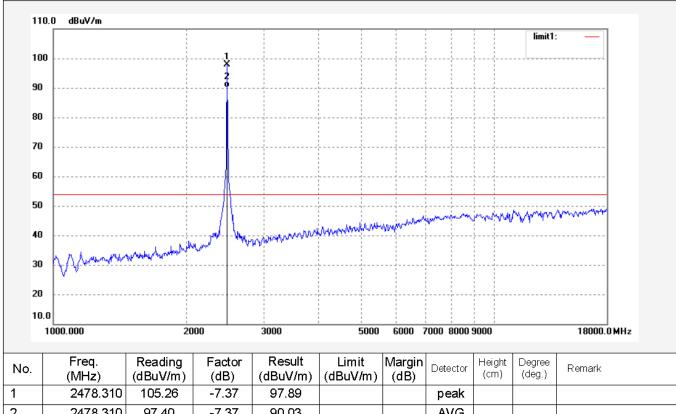
Job No.: STAR2015 #517 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Wireless Microphone

Mode: TX 2480MHz Model: ST-MIC-RF-T Manufacturer: Recordex

Report NO::ATE20151827 Note:





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Report No.: ATE20151827

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Job No.: STAR2015 #516

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Wireless Microphone

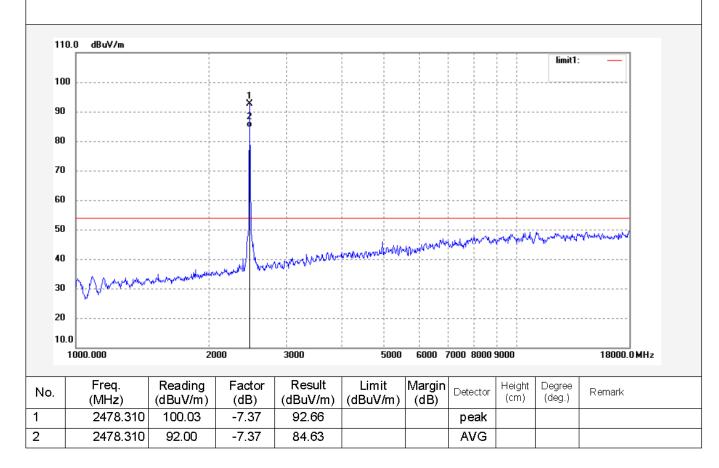
Mode: TX 2480MHz
Model: ST-MIC-RF-T
Manufacturer: Recordex

Note: Report NO .: ATE20151827

Polarization: Vertical
Power Source: DC 3.7V

Date: 15/08/21/ Time: 10/09/48 Engineer Signature:

Distance: 3m





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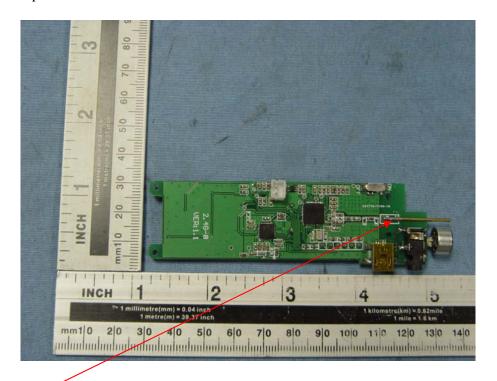
11.ANTENNA REQUIREMENT

11.1.The Requirement

According to Section 15.203, 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.

11.2.Antenna Construction

Device is equipped with detachable antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 2.0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna