FCC CERTIFICATION On Behalf of Estes-Cox Corporation d/b/a Estes Industries and Cox

2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes Model No.: #4550-3

FCC ID: M45-45503

Prepared for Address	:	Estes-Cox Corporation d/b/a Estes Industries and Cox 1295 H Street, 227 Penrose, Colorado 81240 United States
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Report Number	:	ATE20130975
Date of Test	:	May 20-30, 2013
Date of Report	:	May 31, 2013

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APPENDIX I (TEST CURVES) (26 pages)

Test Report Certification

Applicant	:	Estes-Cox Corporation d/b/a Estes Industries and Cox	
Manufacturer	:	SHANG HAI C.C.LEE MODEL CO., LTD.	
EUT Description	:	2.4GHz two-channel radio transmitter for use with radio-controlled mode airplanes	
		(A) MODEL NO.: #4550-3	
		(B) POWER SUPPLY: 9V DC ("AA" batteries $6 \times$)	

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.4: 2009

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 Section15.249 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 :

Prepared by :

Kenty Cheng

May 20-30, 2013

(Kelly Cheng, Engineer)

Approved & Authorized Signer :

(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes
Model Number	:	#4550-3
Power Supply	:	9V DC ("AA" batteries $6 \times$)
Operate Frequency	:	2402.000-2480.000MHz
Modulation Type	:	GFSK
Applicant Address	:	Estes-Cox Corporation d/b/a Estes Industries and Cox 1295 H Street, 227 Penrose, Colorado 81240 United States
Manufacturer Address	:	SHANG HAI C.C.LEE MODEL CO., LTD. No.1289, MIDDLE JIASONG ROAD, HUAXIN TOWN, QINGPU AREA, SHANGHAI, CHINA
Date of sample received	:	May 15, 2013
Date of Test	:	May 20-30, 2013

1.2.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 Site Location	:	ACCURATE TECHNOLOGY CO. LTD F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Kind of equipment	Manufacturer	Туре	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2013	Jan. 11, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2013	Jan. 11, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2013	Jan. 11, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 12, 2013	Jan. 11, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2013	Feb. 05, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Feb. 06, 2013	Feb. 05, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014

Table 1: List of Test and Measurement Equipment

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.249(a)	Fundamental and Harmonics Radiated Emission	Compliant
Section 15.249(d)	Spurious Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: "N/A" means "Not applicable".

4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

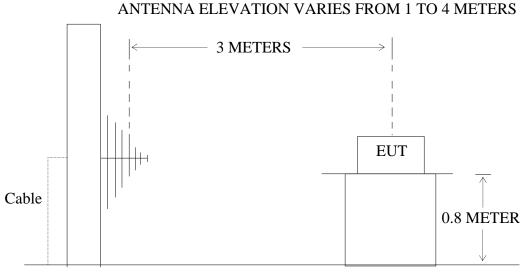
4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: 2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram



GROUND PLANE

(EUT: 2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes)

4.2.The Emission Limit

4.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 2.4 to 2.4835GHz, The fundamental field strength shall not exceed 94 dB μ V/m and the harmonics shall not exceed 54 dB μ V/m.

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

4.2.2.According to section 15.249(e), as shown in section 15.35(b), 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.

4.3.Configuration of EUT on Measurement

The following 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.

4.3.1. 2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes (EUT)

Model Number	:	#4550-3
Serial Number	:	N/A
Manufacturer	:	SHANG HAI C.C.LEE MODEL CO., LTD.

4.4.Operating Condition of EUT

- 4.4.1.Setup the EUT and simulator as shown as Section 4.1.
- 4.4.2.Turn on the power of all equipment.
- 4.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000-2480.000MHz. We are select 2402.000MHz, 2441.000MHz, 2480.000MHz TX frequency to transmit.

4.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. 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 interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

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

4.6.The Field Strength of Radiation Emission Measurement Results **PASS.**

Date of Test:	May 27, 2013	Temperature:	25°C
	2.4GHz two-channel radio		
	transmitter for use with		
EUT:	radio-controlled model airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2402.000MHz	Test Engineer:	Alen

Fundamental Radiated Emissions

Frequency	Reading(dBµV/m)	Factor(dB)	Result(c	lBµV/m)	Limit(d)	BμV/m)	Marg	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2402.000	88.32	91.21	-7.54	80.78	83.67	94.00	114.00	-9.22	-30.33	Vertical
2402.000	86.87	89.46	-7.54	79.33	81.92	94.00	114.00	-10.67	-32.08	Horizontal

Harmonics Radiated Emissions

Frequency	Reading(dBµV/m)	Factor(dB)	Result(c	BµV/m)	Limit(d	BμV/m)	Marg	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
4804.000	48.10	51.05	-0.71	47.39	50.34	54.00	74.00	-6.61	-23.66	Vertical
4804.000	50.23	52.86	-0.71	49.52	52.15	54.00	74.00	-4.84	-21.85	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	May 27, 2013	Temperature:	25°C
	2.4GHz two-channel radio		
	transmitter for use with		
EUT:	radio-controlled model airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2441.000MHz	Test Engineer:	Alen

Fundamental Radiated Emissions

Frequency	Reading(dBµV/m)	Factor(dB)	Result(d	BμV/m)	Limit(dl	BμV/m)	Marg	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2441.000	85.45	88.24	-7.42	78.03	80.82	94.00	114.00	-15.97	-30.18	Vertical
2441.000	83.74	86.42	-7.42	76.32	79.00	94.00	114.00	-17.68	-35.00	Horizontal

Harmonics Radiated Emissions

Frequency	Reading(dBμV/m)	Factor(dB)	Result(d	BµV/m)	Limit(d	BμV/m)	Margi	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
4876.000	43.56	46.25	-0.23	43.33	46.02	54.00	74.00	-10.67	-27.98	Vertical
4876.000	47.21	49.90	-0.23	46.98	49.67	54.00	74.00	-7.02	-24.33	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	May 27, 2013	Temperature:	25°C
	2.4GHz two-channel radio		
	transmitter for use with		
EUT:	radio-controlled model airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2480.000MHz	Test Engineer:	Alen

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBµV/m	Factor(dB) Corr.	Result(d	BμV/m)	Limit(dl	BμV/m)	Margi	in(dB)	Polarization
(11112)	AV	PEAK	Con.	AV	PEAK	AV	PEAK	AV	PEAK	
2480.000	90.03	92.38	-7.33	82.70	85.05	94.00	114.00	-11.30	-28.95	Vertical
2480.000	86.69	89.57	-7.33	79.36	82.24	94.00	114.00	-14.64	-31.76	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBµV/m	Factor(dB) Corr.	Result(d	BμV/m)	Limit(d	BµV/m)	Marg	in(dB)	Polarization
	AV	PEAK	Con.	AV	PEAK	AV	PEAK	AV	PEAK	
4960.000	47.09	49.72	0.30	47.39	50.02	54.00	74.00	-6.61	-23.98	Vertical
4960.000	45.12	47.94	0.30	45.42	48.24	54.00	74.00	-8.58	-25.76	Horizontal

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:

 $Result = Reading + Corrected \ Factor$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

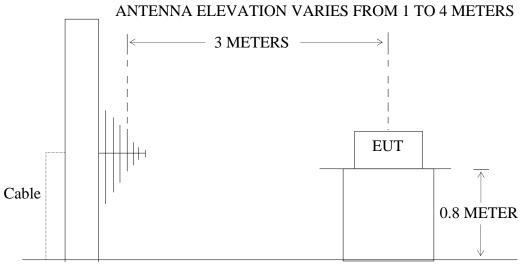
5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators



(EUT: 2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



GROUND PLANE

(EUT: 2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes)

5.2. The Emission Limit For Section 15.249(d)

5.2.1.Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

	Limit						
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is				
0.009 - 0.490	2400/F(kHz)	300	performed with Average detector.				

0.490 – 1.705	24000/F(kHz)	30	Except those frequency bands mention above, the
1.705 - 30.0	30	30	final measurement for frequencies below
30 - 88	100	3	1000MHz is performed with Quasi Peak detector.
88 - 216	150	3	
216 - 960	200	3	
Above 960	500	3	

5.3.EUT Configuration on Measurement

The following 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.

5.3.1. 2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes (EUT)

Model Number	:	#4550-3
Serial Number	:	N/A
Manufacturer	:	SHANG HAI C.C.LEE MODEL CO., LTD.

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 TX modes measure it. The transmit frequency are 2402.000-2480.000MHz. We are select 2402.000MHz, 2441.000MHz, 2480.000MHz TX frequency to transmit.

5.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. 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 bilog 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 interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

5.6. The Emission Measurement Result

PASS.

Date of Test:	May 27-29, 2013	Temperature:	25°C
	2.4GHz two-channel radio		
	transmitter for use with		
EUT:	radio-controlled model airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2402.000MHz	Test Engineer:	Alen

Below 30MHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	-	-	-	-	Х
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-25GHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	_	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	May 27-29, 2013	Temperature:	25°C
	2.4GHz two-channel radio		
	transmitter for use with		
EUT:	radio-controlled model airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2441.000MHz	Test Engineer:	Alen

Below 30MHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	-	-	-	-	Х
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-25GH

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	_	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	May 27-29, 2013	Temperature:	25°C
	2.4GHz two-channel radio		
	transmitter for use with		
EUT:	radio-controlled model airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2480.000MHz	Test Engineer:	Alen

Below 30MHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	-	-	-	-	Х
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-25GH

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	_	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

6. BAND EDGES

6.1.The Requirement

6.1.1.Band Edge from 2400MHz to 2483.5MHz. Emission 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 Section 15.209, whichever is the lesser attenuation.

6.2.EUT Configuration on Measurement

The following 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.

6.2.1. 2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes (EUT)

Model Number	:	#4550-3
Serial Number	:	N/A
Manufacturer	:	SHANG HAI C.C.LEE MODEL CO., LTD.

6.3. Operating Condition of EUT

6.3.1.Setup the EUT and simulator as shown as Section 4.1.

- 6.3.2.Turn on the power of all equipment.
- 6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000-2480.000MHz MHz. We are select 2402.000MHz, 2480.000MHz TX frequency to transmit.

6.4. Test Procedure

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

6.5.The Measurement Result

Pass.

Date of Test:	May 27, 2013	Temperature:	25°C
	2.4GHz two-channel radio transmitter		
	for use with radio-controlled model		
EUT:	airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2402.000MHz(Hopping)	Test Engineer:	Alen

Frequency	Reading(c	lBμV/m)	Factor(dB)	Result(c	lBµV/m)	n) Limit(dBµV/n		/m) Margin(dl		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2379.603	48.87	53.95	-7.59	41.28	46.36	54.00	74.00	-12.72	-27.64	Vertical
2400.000	50.68	55.68	-7.46	43.22	48.22	54.00	74.00	-10.78	-25.78	Vertical
2397.055	45.62	50.80	-7.48	38.14	43.32	54.00	74.00	-15.86	-30.68	Horizontal
2400.000	48.10	52.79	-7.46	40.64	45.33	54.00	74.00	-13.36	-28.67	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	May 27, 2013	Temperature:	25°C
	2.4GHz two-channel radio transmitter		
	for use with radio-controlled model		
EUT:	airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2480.000MHz (Hopping)	Test Engineer:	Alen

Frequency	Reading(c	dBμV/m)	Factor(dB)	Result(dBµV/m) Limit(dBµV/m)		Margi	n(dB)	Polarization		
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	55.98	60.85	-7.37	48.61	53.48	54.00	74.00	-5.39	-20.52	Vertical
2483.971	55.12	60.22	-7.38	47.74	52.84	54.00	74.00	-6.26	-21.16	Vertical
2483.500	53.65	58.27	-7.38	46.27	50.89	54.00	74.00	-7.37	-23.11	Horizontal
2483.770	50.25	55.18	-7.38	42.87	47.80	54.00	74.00	-11.13	-26.20	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	May 27, 2013	Temperature:	25°C
	2.4GHz two-channel radio transmitter		
	for use with radio-controlled model		
EUT:	airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2402.000MHz(Non-hopping)	Test Engineer:	Alen

Frequency	Reading(c	dBµV/m)	Factor(dB)	Result(dBµV/m)		Limit(dI	BμV/m)	Margi	n(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2397.055	47.63	51.25	-7.48	40.15	43.77	54.00	74.00	-13.85	-30.23	Vertical
2399.976	50.32	54.68	-7.46	42.86	47.22	54.00	74.00	-11.14	-26.78	Vertical
2398.880	50.02	54.47	-7.46	42.56	47.01	54.00	74.00	-11.44	-26.99	Horizontal
2400.098	46.52	50.82	-7.46	39.06	43.36	54.00	74.00	-14.94	-30.64	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	May 27, 2013	Temperature:	25°C
	2.4GHz two-channel radio transmitter		
	for use with radio-controlled model		
EUT:	airplanes	Humidity:	50%
Model No.:	#4550-3	Power Supply:	DC 9V
Test Mode:	TX 2480.000MHz (Non-hopping)	Test Engineer:	Alen

Frequency	Reading(c	Reading(dBµV/m) Fa		Result(dBµV/m)		Limit(dl	BμV/m)	Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	50.36	54.62	-7.37	42.99	47.25	54.00	74.00	-11.01	-26.75	Vertical
2483.810	50.04	53.68	-7.38	42.66	46.30	54.00	74.00	-11.34	-27.70	Vertical
2483.500	53.28	57.81	-7.37	45.91	50.44	54.00	74.00	-8.09	-23.56	Horizontal
2484.051	52.35	56.57	-7.38	44.97	49.19	54.00	74.00	-9.03	-24.81	Horizontal

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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

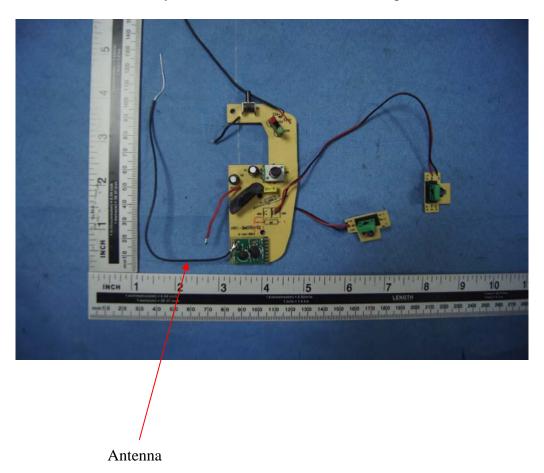
7. ANTENNA REQUIREMENT

7.1.The Requirement

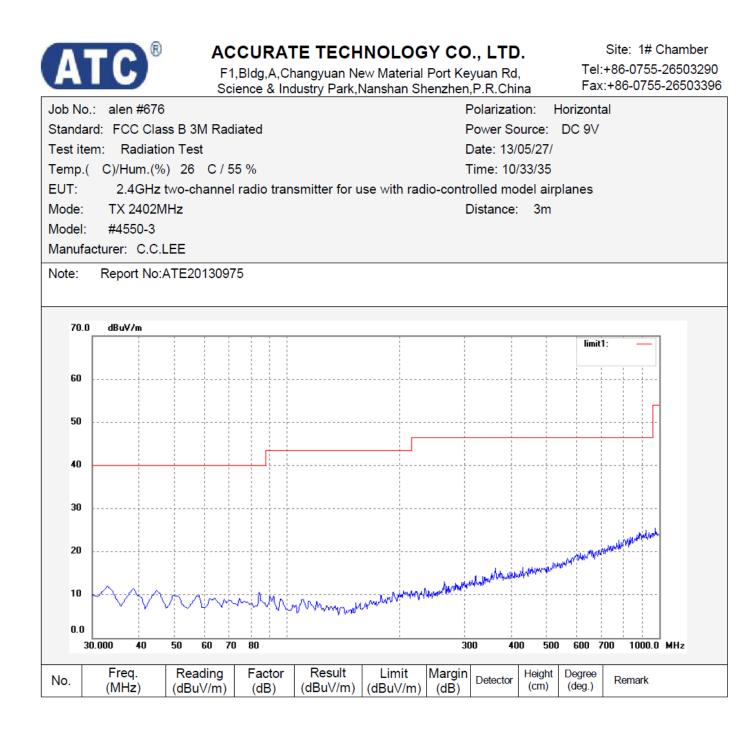
7.1.1.According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

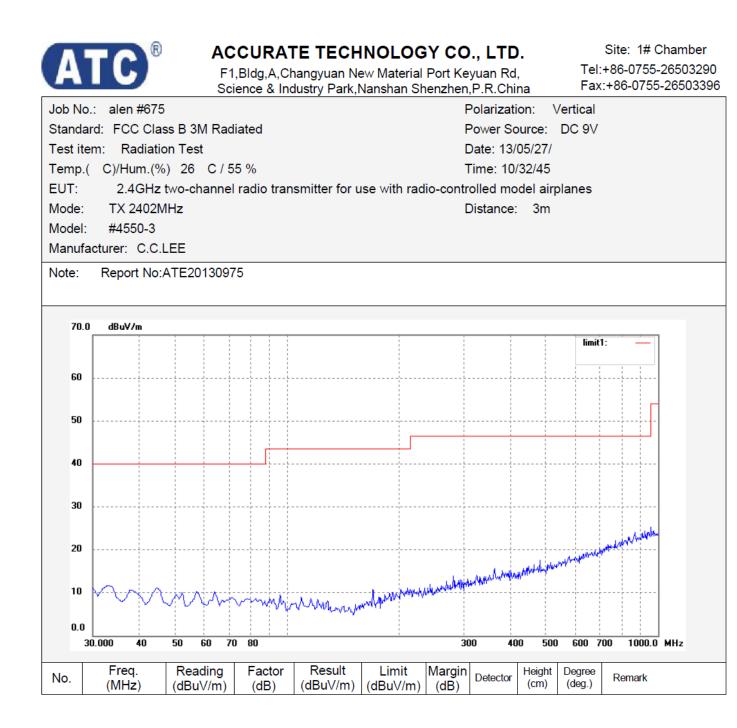
7.2. Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement.

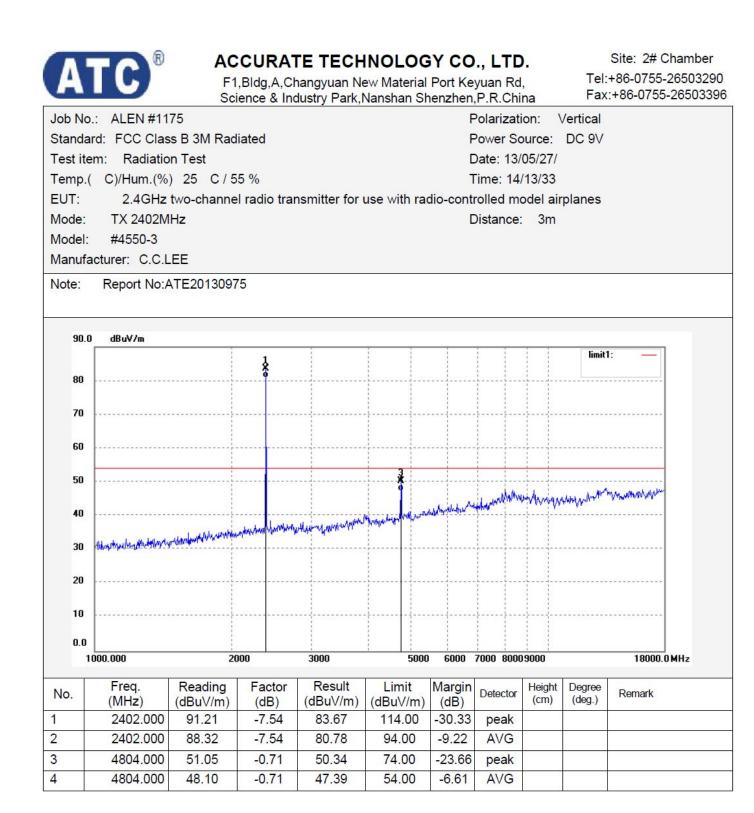


APPENDIX I (Test Curves)





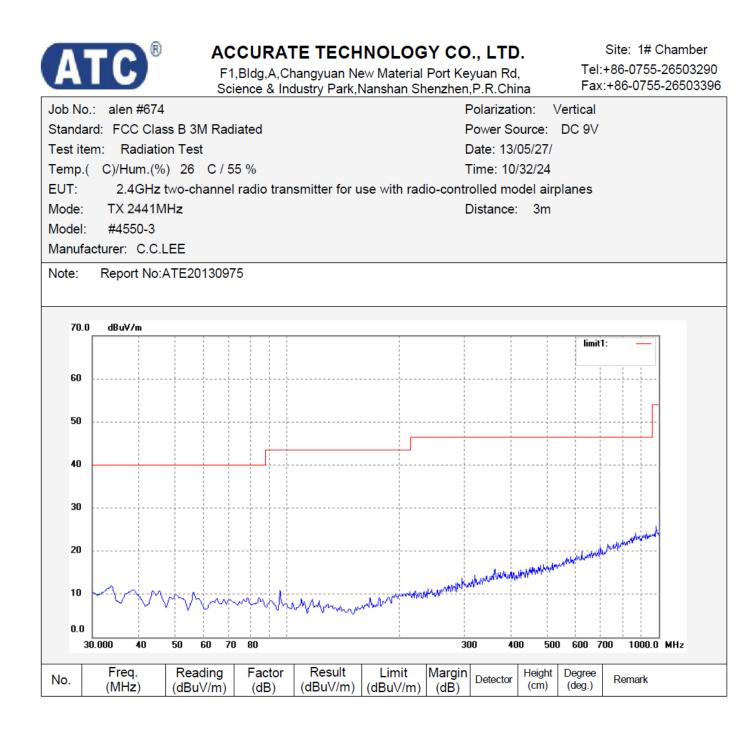
A	TC®	F1	,Bldg,A,Cł	TE TECH nangyuan Ne dustry Park,I	ew Material	Port Ke	yuan Rd,			Site: 2# Chamber +86-0755-26503290 :+86-0755-26503396
Job N	o.: ALEN #11	74				F	Polarizati	on: H	Horizonta	al
Stand	ard: FCC Clas	s B 3M Rad	iated			F	Power So	urce:	DC 9V	
Test i	tem: Radiatio	n Test				0	Date: 13/0	05/27/		
Temp	.(C)/Hum.(%) 25 C/5	5 %			г	ime: 14/	11/50		
EUT:	2.4GHz t	wo-channel	radio trans	mitter for us	e with radio	- control	led mode	el airpla	ines	
Mode		Hz				I	Distance	: 3m		
Mode										
Manu	facturer: C.C.L	.EE								
Note:	Report No:	ATE2013097	75							
90	.0 dBuV/m									
			1						limit	I:
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	89.46	-7.54	81.92	114.00	-32.08	peak			
2	2402.000	86.87	-7.54	79.33	94.00	-10.67	AVG			
3	4804.000	52.86	-0.71	52.15	74.00	-21.85	peak			
4	4804.000	50.23	-0.71	49.52	54.00	-4.48	AVG			



ATC	ACCURAT F1,Bldg,A,Cha Science & Inde	angyuan Ne	ew Material	Port Ke	yuan Rd	,			chamber 26503290 -26503396
Job No.: Alen #689				F	olarizati	on: H	lorizont	al	
Standard: FCC 15C				F	ower So	ource:	DC 9V		
Test item: Radiation Test				0)ate: 13/	05/29/			
Temp.(C)/Hum.(%) 25	C / 50 %			т	ime: 13:	22:56			
EUT: 2.4GHz two-cha		mitter for us	se with radio	o-contro	lled mod	el airpla	anes		
Mode: TX 2402MHz)istance:				
Model: #4550-3									
Manufacturer: C.C.LEE									
70.0 dBuV/m	0975								
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18000.000	20000)						25000.	MHz
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ATC	ACCURA F1,Bldg,A,Cl Science & Inc	hangyuan Ne	ew Material	Port Ke	yuan Rd	,		Site: 966 chamber +86-0755-26503290 ::+86-0755-26503396
Job No.: Alen #688		-		F	olarizati	on: \	/ertical	
Standard: FCC 15C				F	ower So	ource:	DC 9V	
Test item: Radiation Test				E)ate: 13/	05/29/		
Temp.(C)/Hum.(%) 25 (C / 50 %			Т	ime: 13:	21:05		
EUT: 2.4GHz two-cha		smitter for u	ise with rad				lanes	
Mode: TX 2402MHz)istance:			
Model: #4550-3				-	incluinee.	•		
Manufacturer: C.C.LEE								
70.0 dBuV/m								
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18000.000	2000	0						25000.0 MHz
Freq. Readi	ng Factor	Result	Limit	Margin		Height	Degree	
No. (MHz) (dBuV/		(dBuV/m)	(dBuV/m)	(dB)	Detector	(cm)	(deg.)	Remark



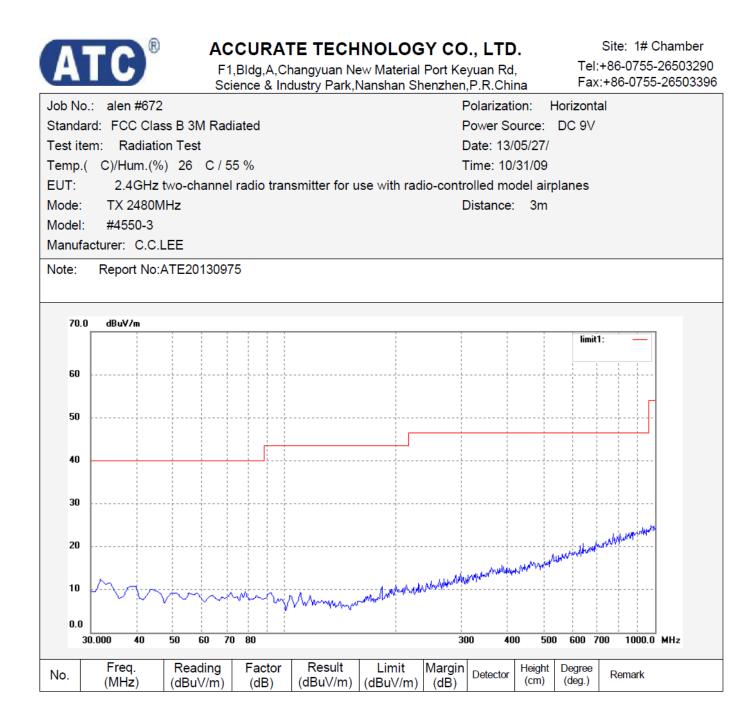


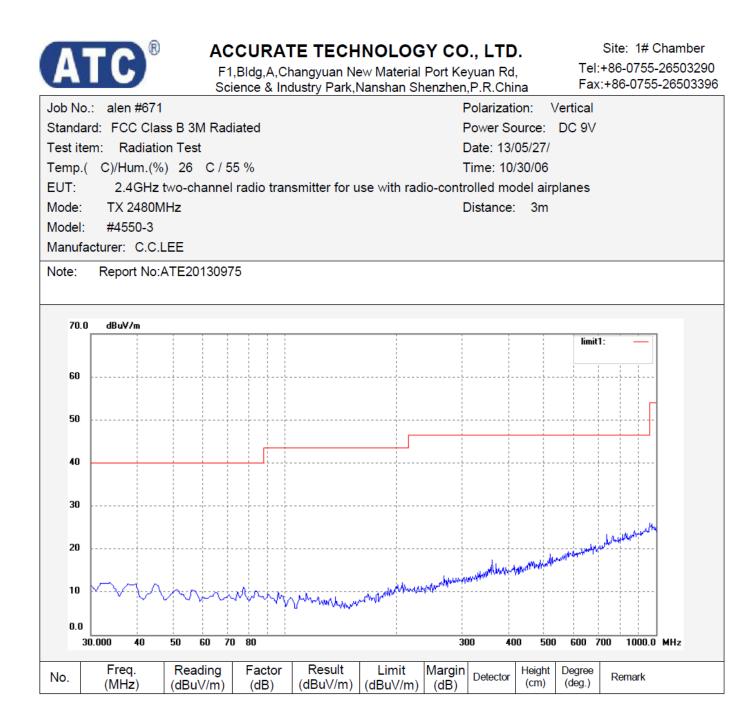
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Tel:+86-0755-26503 Fax:+86-0755-26503 Fax:+86-0755-26503									Site: 2# Chamber +86-0755-26503290 :+86-0755-26503396		
Job	No	.: ALEN #11						olarizati		Horizonta	al
Sta	nda	rd: FCC Clas	s B 3M Rad	liated			F	ower So	urce:	DC 9V	
Tes	st ite	em: Radiatio	on Test				D	ate: 13/	05/27/		
Ten	np.(C)/Hum.(%) 25 C/5	5 %			Т	'ime: 14/	18/31		
EU	T:	2.4GHz t	wo-channel	radio trans	smitter for us	e with radio	-controlle	ed mode	l airpla	nes	
Moo	de:	TX 2441M	lHz				D	istance:	3m		
Moo											
Mai	nufa	acturer: C.C.L	.EE								
Not	e:	Report No:	ATE2013097	75							
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1	+	2441.000	86.42	-7.42	79.00	114.00	-35.00	peak	1	(3-)	
2	+	2441000	83.74	-7.42	76.32	94.00	-17.68	AVG			
3	+	4876.000	49.90	-0.23	49.67	74.00	-24.33	peak			
4		4876.000	47.21	-0.23	46.98	54.00	-7.02	AVG			

A	TC®	F1	l,Bldg,A,Cł	TE TECH nangyuan Ne dustry Park,I	ew Material	Port Ke	yuan Rd	,		Site: 2# Chamber +86-0755-26503290 :+86-0755-26503396
Job N	lo.: ALEN #11	79				F	Polarizati	on: \	/ertical	
Stand	lard: FCC Clas	s B 3M Rad	liated			F	Power So	ource:	DC 9V	
Test i	tem: Radiatio	on Test				[Date: 13/	05/27/		
Temp	o.(C)/Hum.(%) 25 C/5	55 %			٦	ime: 14/	20/02		
EUT:	2.4GHz t	wo-channel	radio trans	mitter for us	e with radio	-controll	ed mode	l airpla	nes	
Mode	: TX 2441M	1Hz				[Distance:	3m		
Mode										
Manu	facturer: C.C.L	.EE								
Note:	Report No:	ATE2013097	75							
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	1000.000	20	000	3000	5000	6000	7000 8000	9000		18000.0 MHz
No.	Freq.	Reading	Factor	Result	Limit	Margin	Detector	Height	Degree	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	- Contain
1	2441.000	88.24	-7.42	80.82	114.00	-30.18	peak			
2	2441.000	85.45	-7.42	78.03	94.00	-15.97	AVG			
3	4876.000	46.25	-0.23	46.02	74.00	-27.98	peak			
4	4876.000	43.56	-0.23	43.33	54.00	-10.67	AVG			

A	TC®	F1	,Bldg,A,Cł	TE TECH nangyuan Ne dustry Park,N	ew Material	Port Ke	yuan Rd	,			chamber -26503290 -26503396
Job No	.: Alen #690			-		F	olarizati	on: H	lorizont	al	
Standa	ard: FCC 15C					F	ower So	ource:	DC 9V		
Test ite	em: Radiatio	n Test				C)ate: 13/	05/29/			
Temp.	(C)/Hum.(%) 25 C/5	0 %			т	ime: 13:	24:38			
EUT:		wo-channel		smitter for us	se with radio	o-contro	lled mod	el airpl	anes		
Mode:)istance:				
Model	177 644 10					-		•			
	acturer: C.C.L	FF									
Note:	Report No:AT	E20130975									
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
	(11112)	(aba v/m)	(GD)			(GD)		()	(

(A'	TC®	F1	,Bldg,A,Cł	TE TECH nangyuan No dustry Park,I	ew Material	Port Ke	yuan Rd	,		Site: 966 chamber +86-0755-26503290 ::+86-0755-26503396
Job No	.: Alen #691					F	Polarizati	on: ∖	/ertical	
Standa	rd: FCC 15C					F	ower Sc	ource:	DC 9V	
Test ite	m: Radiatio	on Test				0)ate: 13/	05/29/		
Temp.(C)/Hum.(%) 25 C/5	0 %			т	ime: 13:	25:42		
EUT:	· · · ·	·		smitter for u	se with radi	o-contro	lled mod	el airpla	anes	
Mode:	TX 2441M)istance:			
Model:	#4550-3					-		•		
	ncturer: C.C.I	FF								
Note: F	Report No:AT	E20130975								
70.0	dBu∀/m									
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



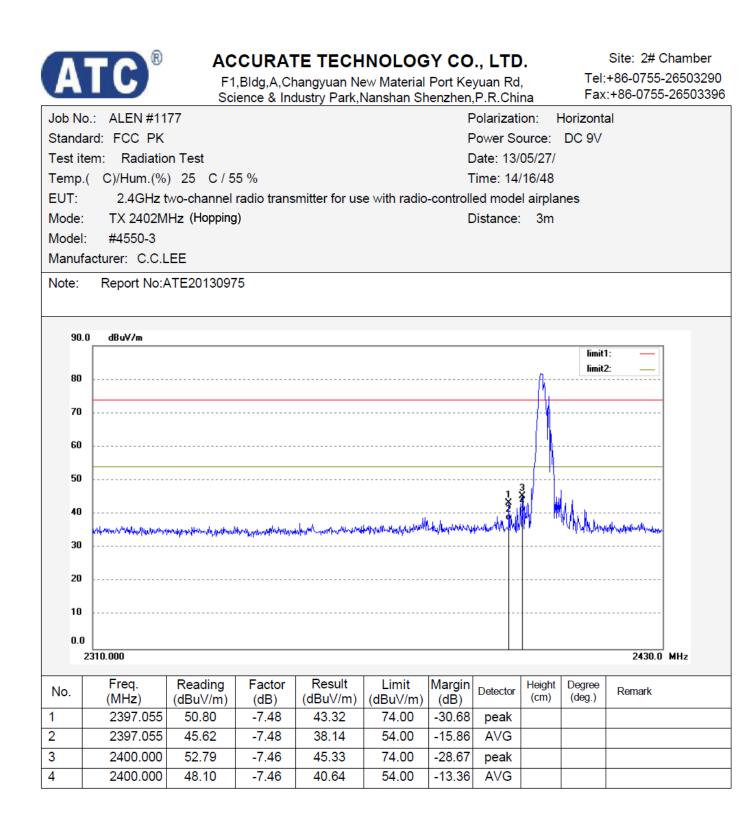


Recurrence Accurate technology co., Ltp. Site: 2# Chamber F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 2# Chamber											
Job	No	.: ALEN #11	81				P	olarizati	on: H	lorizont	al
Sta	nda	rd: FCC Clas	s B 3M Rad	liated			P	ower So	ource:	DC 9V	
Tes	t ite	em: Radiatio	n Test		D	ate: 13/	05/27/				
Ten	np.(C)/Hum.(%) 25 C/5	5 %			т	ime: 14/	22/59		
EU	T:	2.4GHz t	wo-channel	radio trans	mitter for us	e with radio	-controlle	ed mode	l airplaı	nes	
Moo	Mode: TX 2480MHz Distance: 3m										
	Model: #4550-3										
Mar	nufa	acturer: C.C.L	.EE								
Not	e:	Report No:	ATE2013097	75							
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1	\top	2480.000	89.57	-7.33	82.24	114.00	-31.76	peak			
2		2480.000	86.69	-7.33	79.36	94.00	-14.64	AVG			
3		4960.000	47.94	0.30	48.24	74.00	-25.76	peak			
4		4960.000	45.12	0.30	45.42	54.00	-8.58	AVG			

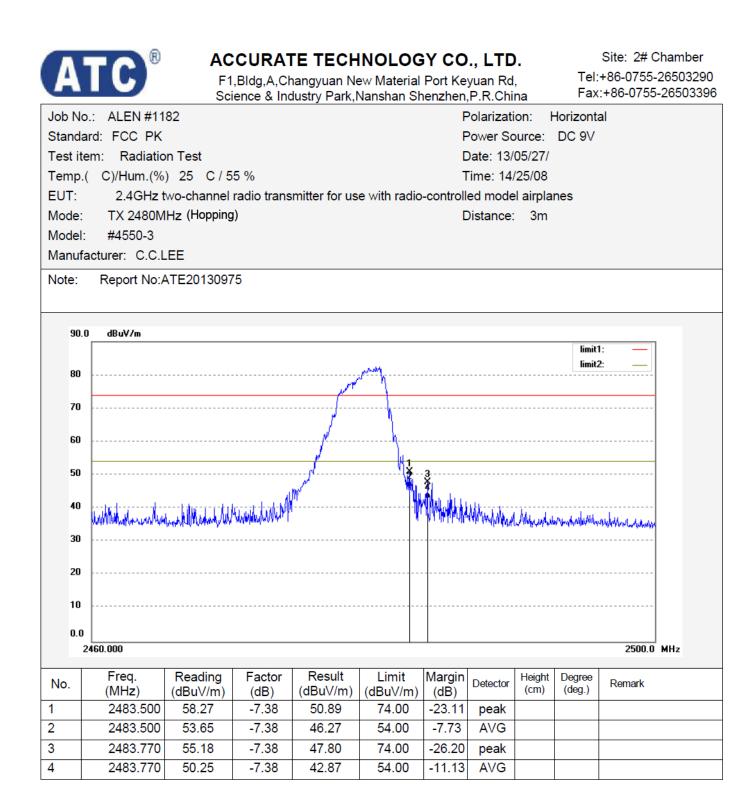
	1	C	F1	,Bldg,A,Cł	TE TECH nangyuan Ne dustry Park,I	ew Material	Port Ke	yuan Rd	,		Site: 2# Chamber +86-0755-2650329 :+86-0755-2650339	
Job	No.	: ALEN #11			-			olarizati		/ertical		
Star	ndai	rd: FCC Clas	s B 3M Rad	iated			F	ower So	urce:	DC 9V		
Tes	t ite	m: Radiatio	n Test				D	ate: 13/	05/27/			
Tem	ıр.(C)/Hum.(%) 25 C/5	5 %			т	ime: 14/	21/26			
EUT	Г:	2.4GHz t	wo-channel	radio trans	mitter for us	e with radio	-controlle	ed mode	l airpla	nes		
Mode: TX 2480MHz Distance: 3m												
Mod	Model: #4550-3											
Mar	nufa	cturer: C.C.L	.EE									
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No.		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	Remark	
1		2480.000	92.38	-7.33	85.05	114.00	-28.95	•				
2		2480.000	90.03	-7.33	82.70	94.00	-11.30	AVG				
3		4960.000	49.72	0.30	50.02	74.00	-23.98	•				
4		4960.000	47.09	0.30	47.39	54.00	-6.61	AVG				

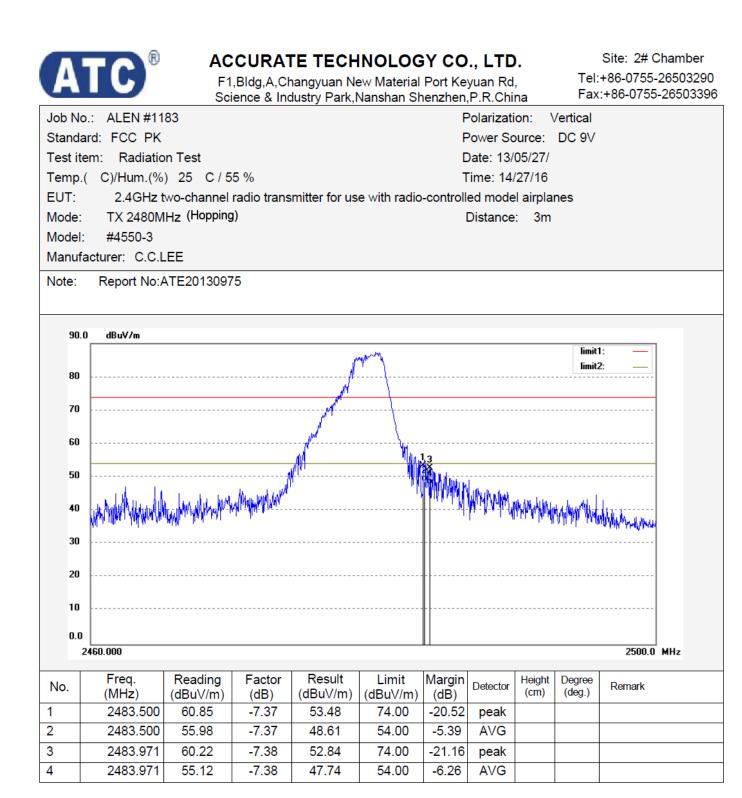
ACCURATE TECHNOLOGY CO., LTD. Site: 966 C F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Fax:+86-0755-2										26503290	
Job No	.: Alen #693					F	olarizati	on: H	lorizont	al	
Standa	rd: FCC 15C					F	ower So	ource:	DC 9V		
Test ite	em: Radiatio	n Test				C)ate: 13/	05/29/			
	C)/Hum.(%) %	Time: 13:32:35							
EUT:		wo-channel		smitter for us	se with radi				anes		
Mode:	TX 2480M)istance:				
Model:	#4550-3					_					
	acturer: C.C.L	FF									
Note:	Report No:ATI	E20130975									
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	

A	TC	F1	,Bldg,A,Cł	TE TECH nangyuan Ne dustry Park,N	ew Material	Port Ke	yuan Rd	,		Site: 966 chamber +86-0755-26503290 :+86-0755-26503396			
Job No	.: Alen #692	2				F	olarizati	ion: \	/ertical				
Standa	rd: FCC 150	>				F	ower So	ource:	DC 9V				
Test ite	m: Radiati	on Test			Date: 13/05/29/								
Temp.(C)/Hum.(%	5) 25 C/5	0 %			Time: 13:28:59							
EUT: 2.4GHz two-channel radio transmitter for use with radio-controlled model airplanes													
Mode:	TX 2480N	/Hz				C	istance:	3m					
Model:	#4550-3												
Manufa	acturer: C.C.	LEE											
	Report No:AT	E20130975											
70.0	dBu∀/m												
60									limit				
50	hangeneral how the strik	util and the second	WANNAMAN	1-4-annutration/M	WHIMMAN John march of	(order) Maria and			LANDAR NO	an all all and all all all all all all all all all al			
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30													
20													
10													
0.0	8000.000		2000	0						25000.0 MHz			
		_		•		Ia a b							
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark			



A	TC®	F1	,Bldg,A,Cł	TE TECH nangyuan Ne dustry Park,I	ew Material	Port Ke	yuan Rd	,		Site: 2# Chan +86-0755-2650 :+86-0755-265	03290	
Job No	.: ALEN #11	76				F	Polarizati	on: \	/ertical			
Standa	rd: FCC PK					F	Power Sc	ource:	DC 9V			
Fest ite	em: Radiatio	n Test				[) Date: 13/	05/27/				
Гemp.(np.(C)/Hum.(%) 25 C / 55 % Time: 14					ime: 14	/15/24					
EUT:	2.4GHz	wo-channel	radio tran	smitter for u	ise with rad	io-contr	olled mo	del airp	blanes			
Node:	e: TX 2402MHz (Hopping) Distance:					3m						
Nodel:	#4550-3											
Manufa	acturer: C.C.L	.EE										
Note:	Report No:A	ATE2013097	'5									
90.0	dBuV/m								limit	I·		
								٥	limit			
80								ft				
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0.0												
2	310.000									2430.0 MHz		
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark		
1	2379.603	53.95	-7.59	46.36	74.00	-27.64	peak					
	2379.603	48.87	-7.59	41.28	54.00	-12.72	AVG					
2					1							
3	2400.000	55.68	-7.46	48.22	74.00	-25.78	peak					



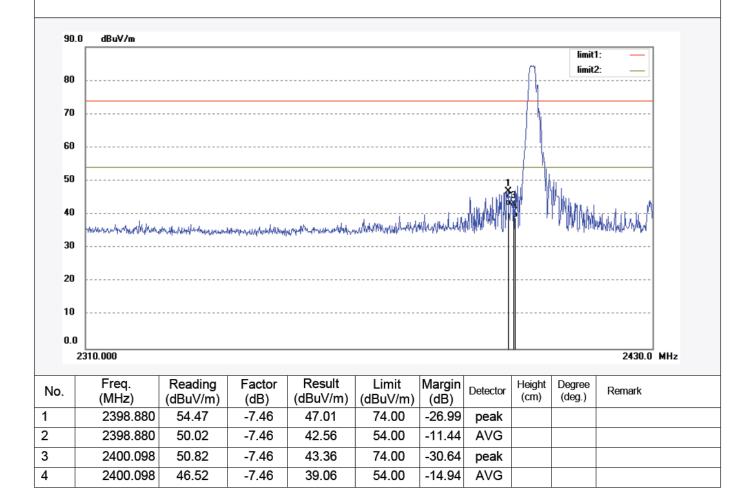




ACCURATE TECHNOLOGY CO., LTD.

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

Science & Industry Fark, Narishan She	
Job No.: ALEN #1183	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 9V
Test item: Radiation Test	Date: 13/05/27/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/22/17
EUT: 2.4GHz two-channel radio transmitter for use with radio	o-controlled model airplanes
Mode: TX 2402MHz(Non-hopping)	Distance: 3m
Model: #4550-3	
Manufacturer: C.C.LEE	
Note: Report No:ATE20130975	





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Job No.: ALEN #1183	Polarization: Vertical					
Standard: FCC PK	Power Source: DC 9V					
Test item: Radiation Test	Date: 13/05/27/					
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/23/41					
EUT: 2.4GHz two-channel radio transmitter for use with radio-con	ntrolled model airplanes					
Mode: TX 2402MHz (Non-hopping)	Distance: 3m					
Model: #4550-3						
Manufacturer: C.C.LEE						

Note: Report No:ATE20130975

