

FCC CERTIFICATION  
On Behalf of  
LB Technology Co., Ltd.

LBA 7130RF  
Model No.: LBA 7130RF

FCC ID: OIE51402TR

Prepared for : LB Technology Co., Ltd.  
Address : No. 5 of Xiaoyang Rd, First Industrial Park, Tanzhou  
Town, Zhongshan City, Guangdong, China

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

Tel: (0755) 26503290  
Fax: (0755) 26503396

Report Number : ATE20130085  
Date of Test : Jan 16, 2013  
Date of Report : Jan 16-Feb 23, 2013

## TABLE OF CONTENTS

Description	Page
<b>Test Report Certification</b>	
<b>1. GENERAL INFORMATION .....</b>	<b>4</b>
1.1. Description of Device (EUT).....	4
1.2. Description of Test Facility .....	4
1.3. Measurement Uncertainty .....	5
<b>2. MEASURING DEVICE AND TEST EQUIPMENT .....</b>	<b>6</b>
<b>3. SUMMARY OF TEST RESULTS.....</b>	<b>7</b>
<b>4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A) 8</b>	<b>8</b>
4.1. Block Diagram of Test Setup.....	8
4.2. The Emission Limit .....	9
4.3. Configuration of EUT on Measurement .....	9
4.4. Operating Condition of EUT .....	9
4.5. Test Procedure .....	10
4.6. The Field Strength of Radiation Emission Measurement Results .....	11
<b>5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D) .....</b>	<b>14</b>
5.1. Block Diagram of Test Setup.....	14
5.2. The Emission Limit For Section 15.249(d) .....	15
5.3. EUT Configuration on Measurement .....	15
5.4. Operating Condition of EUT .....	15
5.5. Test Procedure .....	16
5.6. The Emission Measurement Result .....	17
<b>6. BAND EDGES .....</b>	<b>20</b>
6.1. The Requirement .....	20
6.2. EUT Configuration on Measurement .....	20
6.3. Operating Condition of EUT .....	20
6.4. Test Procedure .....	20
6.5. The Measurement Result .....	21
<b>7. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A) ..</b>	<b>23</b>
7.1. Block Diagram of Test Setup.....	23
7.2. The Emission Limit .....	23
7.3. Configuration of EUT on Measurement .....	24
7.4. Operating Condition of EUT .....	24
7.5. Test Procedure .....	24
7.6. Power Line Conducted Emission Measurement Results .....	25
<b>8. ANTENNA REQUIREMENT.....</b>	<b>28</b>
8.1. The Requirement .....	28
8.2. Antenna Construction .....	28

APPENDIX I ( TEST CURVES) (28 pages)

## Test Report Certification

Applicant : LB Technology Co., Ltd.  
Manufacturer : LB Technology Co., Ltd.  
EUT Description : LBA 7130RF  
(A) MODEL NO.: LBA 7130RF  
(B) Trade Name.: LBtech  
(C) POWER SUPPLY: AC 120V

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 Section 15.249 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 : Jan 16-Feb 23, 2013

Prepared by :   
(Engineer)

Approved & Authorized Signer :   
(Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT : LBA 7130RF

Model Number : LBA 7130RF

Power Supply : AC 120V

Operate Frequency : 2408-2468 MHz

Applicant : LB Technology Co., Ltd.  
Address : No. 5 of Xiaoyang Rd, First Industrial Park, Tanzhou Town, Zhongshan City, Guangdong, China

Manufacturer : LB Technology Co., Ltd.  
Address : No. 5 of Xiaoyang Rd, First Industrial Park, Tanzhou Town, Zhongshan City, Guangdong, China

Date of sample received : Jan 16, 2013

Date of Test : Jan 16-Feb 23 , 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 : ACCURATE TECHNOLOGY CO. LTD  
Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.  
Science & Industry Park, Nanshan, Shenzhen, Guangdong  
P.R. China

### 1.3.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

**Table 1: List of Test and Measurement Equipment**

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 12, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Oct. 30, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2014

### 3. SUMMARY OF TEST RESULTS

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
Section 15.207	Conducted Emission	Compliant
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)

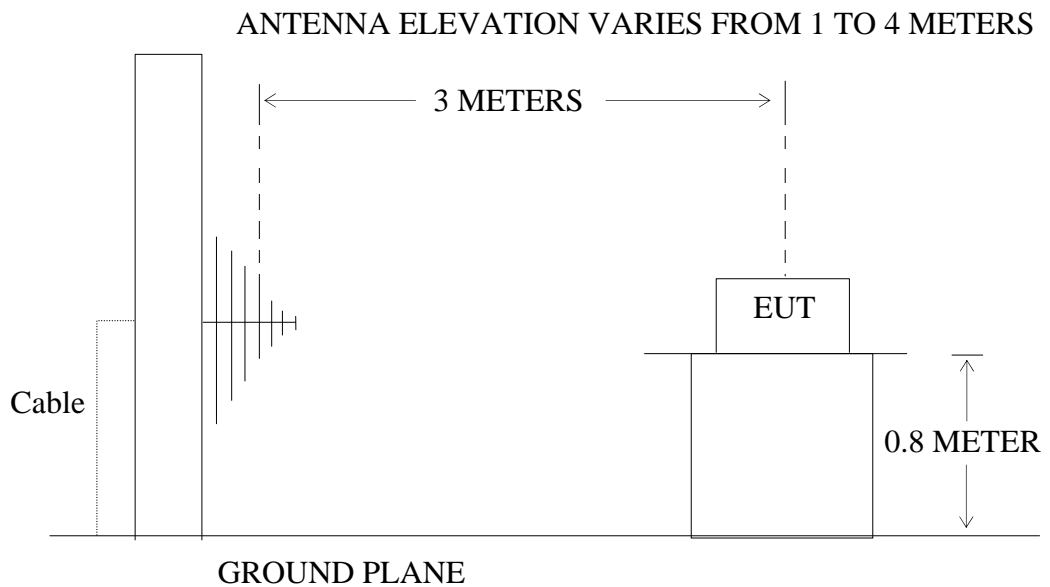
### 4.1. Block Diagram of Test Setup

#### 4.1.1. Block diagram of connection between the EUT and simulators



(EUT: LBA 7130RF)

#### 4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: LBA 7130RF)



## 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 $\mu$ V/m and the harmonics shall not exceed 54 dB $\mu$ V/m.

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of harmonics (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. LBA 7130RF (EUT)

Model Number : LBA 7130RF  
 Serial Number : N/A  
 Manufacturer : LB Technology 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 2408 - 2468 MHz. We are select 2408 MHz, 2440MHz, and 2468 MHz 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 120 kHz 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:	Feb 23, 2013	Temperature:	25°C
EUT:	LBA 7130RF	Humidity:	50%
Model No.:	LBA 7130RF	Power Supply:	AC 120V
Test Mode:	TX 2408MHz	Test Engineer:	Allen

#### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2408.000	79.32	83.04	-7.59	71.73	75.45	94	114	-22.27	-38.55	Vertical
2408.000	80.32	83.88	-7.59	72.73	76.29	94	114	-21.27	-37.71	Horizontal

#### Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4816.000	50.36	52.95	-0.71	49.65	52.24	54	74	-4.35	-21.76	Vertical
4816.000	49.65	81.83	-0.71	48.94	51.12	54	74	-5.06	-22.88	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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>Feb 23, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>LBA 7130RF</u>	Humidity:	<u>50%</u>
Model No.:	<u>LBA 7130RF</u>	Power Supply:	<u>AC 120V</u>
Test Mode:	<u>TX 2440MHz</u>	Test Engineer:	<u>Allen</u>

### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2440.000	80.12	83.14	-7.40	72.72	75.74	94	114	-21.28	-38.26	Vertical
2440.000	79.01	82.57	-7.40	71.61	75.17	94	114	-22.39	-38.83	Horizontal

### Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4880.000	48.68	50.60	-0.23	48.45	50.37	54	74	-5.55	-23.63	Vertical
4880.000	48.89	50.85	-0.23	48.66	50.62	54	74	-5.34	-23.38	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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>Feb 23, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>LBA 7130RF</u>	Humidity:	<u>50%</u>
Model No.:	<u>LBA 7130RF</u>	Power Supply:	<u>AC 120V</u>
Test Mode:	<u>TX 2468MHz</u>	Test Engineer:	<u>Allen</u>

### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2468.000	80.04	83.17	-7.33	72.71	75.84	94	114	-21.29	-38.16	Vertical
2468.000	80.12	83.71	-7.33	72.79	76.38	94	114	-21.21	-37.62	Horizontal

### Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4936.000	48.03	50.00	0.24	48.27	50.24	54	74	-5.73	-23.76	Vertical
4936.000	48.58	50.42	0.24	48.82	50.66	54	74	-5.18	-23.34	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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. The spectral diagrams in appendix I display the measurement of peak values.

## 5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

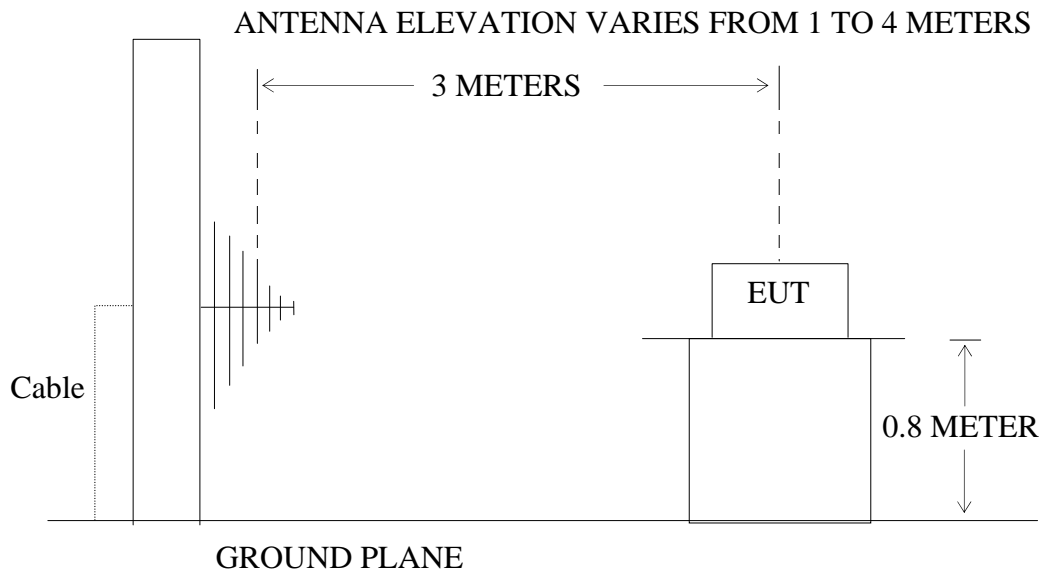
### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block diagram of connection between the EUT and simulators



(EUT: LBA 7130RF)

#### 5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: LBA 7130RF)

## 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.

### Radiation Emission Measurement Limits According to Section 15.209

Frequency (MHz)	Limit		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.
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB $\mu$ V/m)	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	

## 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. LBA 7130RF (EUT)

Model Number : LBA 7130RF  
 Serial Number : N/A  
 Manufacturer : LB Technology 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 2408 - 2468 MHz. We are select 2408MHz, 2440MHz, and 2468MHz 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 120 kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

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

The final measurement in band 9-90 kHz, 110-490 kHz 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:	<u>Feb 20, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>LBA 7130RF</u>	Humidity:	<u>50%</u>
Model No.:	<u>LBA 7130RF</u>	Power Supply:	<u>AC 120V</u>
Test Mode:	<u>TX 2408MHz</u>	Test Engineer:	<u>Allen</u>

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
541.3724	53.06	-12.87	40.19	46.00	-5.81	Vertical
704.2260	50.01	-9.71	40.30	46.00	-5.70	Vertical
866.0878	47.05	-6.69	40.30	46.00	-5.64	Vertical
270.3747	58.64	-18.68	39.96	46.00	-6.04	Horizontal
324.4560	58.30	-17.22	41.08	46.00	-4.92	Horizontal
866.0878	47.24	-6.69	40.55	46.00	-5.45	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:  

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	Feb 20 , 2013	Temperature:	25°C
EUT:	LBA 7130RF	Humidity:	50%
Model No.:	LBA 7130RF	Power Supply:	AC 120V
Test Mode:	TX 2440MHz	Test Engineer:	Allen

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
324.4560	54.32	-16.80	37.52	46.00	-8.48	Vertical
541.3724	53.12	-12.87	40.25	46.00	-5.75	Vertical
649.6597	51.40	-10.66	40.74	46.00	-5.26	Vertical
270.3747	57.56	-18.68	38.88	46.00	-7.12	Horizontal
324.4560	57.36	-17.22	40.14	46.00	-5.86	Horizontal
649.6597	50.54	-10.66	39.88	46.00	-6.12	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:  

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	Feb 20, 2013	Temperature:	25°C
EUT:	LBA 7130RF	Humidity:	50%
Model No.:	LBA 7130RF	Power Supply:	AC 120V
Test Mode:	TX 2468MHz	Test Engineer:	Allen

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
541.3724	53.10	-12.87	40.23	46.00	-5.77	Vertical
758.0407	49.56	-8.45	41.11	46.00	-4.89	Vertical
972.3374	46.45	-5.08	41.37	46.00	-12.63	Vertical
270.3748	58.78	-18.68	40.10	46.00	-5.90	Horizontal
324.4561	57.39	-17.22	40.17	46.00	-5.83	Horizontal
758.0408	48.06	-8.45	39.61	46.00	-6.39	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:  

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

## 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. LBA 7130RF (EUT)

Model Number : LBA 7130RF  
Serial Number : N/A  
Manufacturer : LB Technology 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 2408-2468 MHz. We are select 2408MHz, 2468MHz 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:	<u>Feb 23, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>LBA 7130RF</u>	Humidity:	<u>50%</u>
Model No.:	<u>LBA 7130RF</u>	Power Supply:	<u>AC 120V</u>
Test Mode:	<u>TX 2408MHz</u>	Test Engineer:	<u>Allen</u>

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2346.790	56.02	59.33	-7.80	48.22	51.53	54	74	-5.78	-22.47	Vertical
2376.027	43.46	47.09	-7.62	35.84	39.47	54	74	-18.16	-34.53	Vertical
2346.928	55.68	59.53	-7.80	47.88	51.73	54	74	-6.12	-22.27	Horizontal
2375.887	43.42	47.16	-7.62	35.80	39.54	54	74	-18.20	-34.46	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:  

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	Jan 23, 2013	Temperature:	25°C
EUT:	LBA 7130RF	Humidity:	50%
Model No.:	LBA 7130RF	Power Supply:	AC 120V
Test Mode:	TX 2468 MHz	Test Engineer:	Allen

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.506	47.12	50.21	-7.37	39.75	42.84	54	74	-14.25	-31.16	Vertical
3484.360	45.98	51.05	-7.38	38.60	43.67	54	74	-15.40	-30.33	Vertical
2483.506	45.32	49.25	-7.37	37.95	41.88	54	74	-16.05	-32.12	Horizontal
2484.059	48.12	52.20	-7.38	40.74	44.82	54	74	-13.26	-29.18	Horizontal

## Note:

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

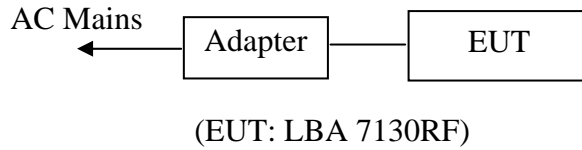
$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
- The spectral diagrams in appendix I display the measurement of peak values.

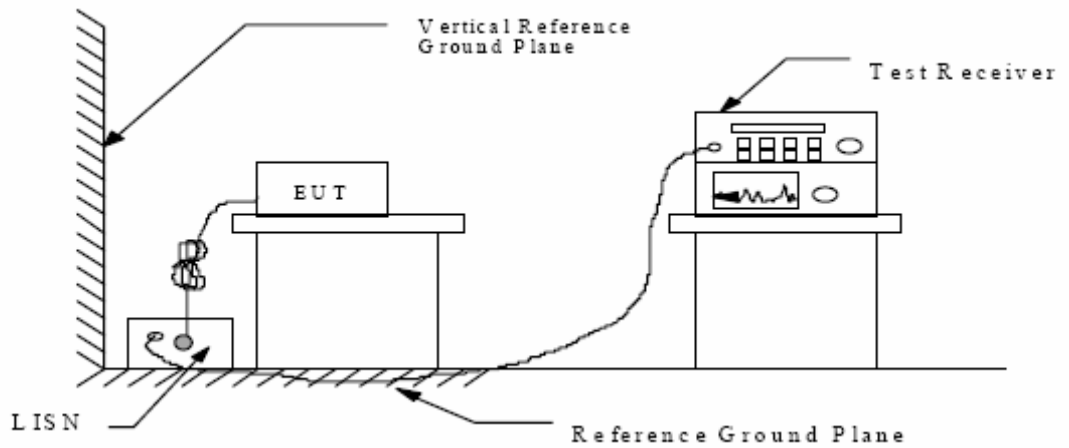
## 7. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

### 7.1. Block Diagram of Test Setup

#### 7.1.1. Block diagram of connection between the EUT and simulators



#### 7.1.2. Shielding Room Test Setup Diagram



(EUT: LBA 7130RF)

### 7.2. The Emission Limit

#### 7.2.1. Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	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

\* Decreases with the logarithm of the frequency.

### 7.3.Configuration of EUT on Measurement

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

#### 7.3.1. LBA 7130RF (EUT)

Model Number : LBA 7130RF  
Serial Number : N/A  
Manufacturer : LB Technology Co., Ltd.

### 7.4.Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 11.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX (Operation) mode measure it.

### 7.5.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: 2009 on Conducted Emission Measurement.

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

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



## 7.6. Power Line Conducted Emission Measurement Results

**PASS.**

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

Date of Test:	<u>Feb 20, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>LBA 7130RF</u>	Humidity:	<u>50%</u>
Model No.:	<u>LBA 7130RF</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>operation</u>	Test Engineer:	<u>Alen</u>

Frequency (MHz)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Line
0.150000	54.00	66	12.0	QP	Neutral
0.178091	52.60	65	12.0	QP	
0.437246	42.40	57	14.7	QP	
0.178803	40.00	55	14.5	AV	
0.433769	38.50	47	8.7	AV	
0.469822	34.00	47	12.5	AV	
0.150000	54.20	66	11.8	QP	Live
0.181681	52.70	64	11.7	QP	
0.435504	42.50	57	14.6	QP	
0.180957	41.20	54	13.2	AV	
0.435504	36.70	47	10.4	AV	
0.469822	35.30	47	11.2	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.  
The spectral diagrams are attached as below.

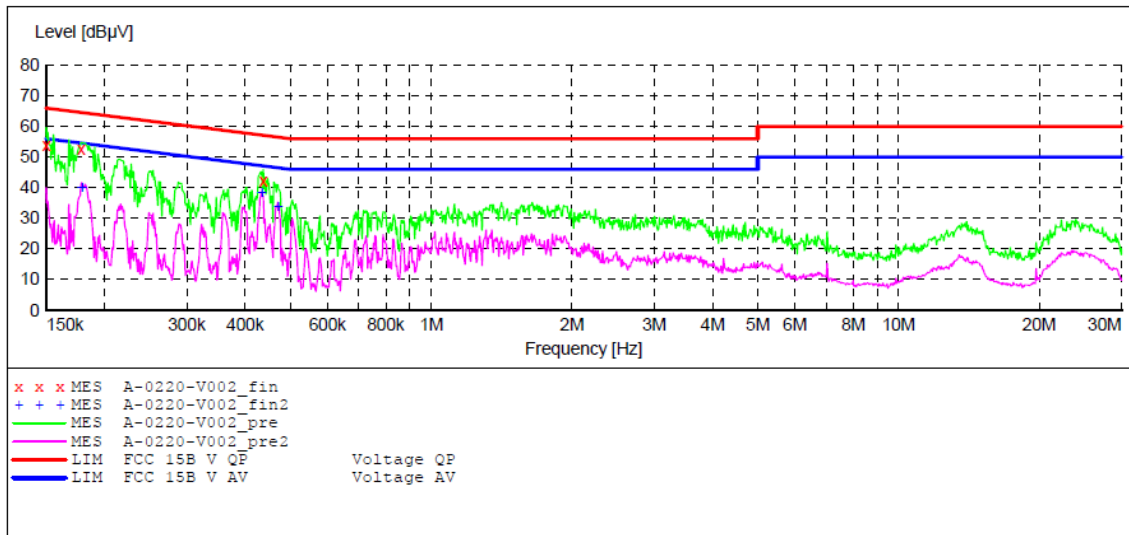
**ACCURATE TECHNOLOGY CO.,LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: LBA 7130RF M/N:LBA 7130RF  
 Manufacturer: LBtech  
 Operating Condition: Operation  
 Test Site: 1#Shielding Room  
 Operator: Alen  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2/20/2013 / 9:59:28AM

**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 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "A-0220-V002\_fin"**

2/20/2013 10:01AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	54.00	11.2	66	12.0	QP	N	GND
0.178091	52.60	11.2	65	12.0	QP	N	GND
0.437246	42.40	11.2	57	14.7	QP	N	GND

**MEASUREMENT RESULT: "A-0220-V002\_fin2"**

2/20/2013 10:01AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178803	40.00	11.2	55	14.5	AV	N	GND
0.433769	38.50	11.2	47	8.7	AV	N	GND
0.469822	34.00	11.2	47	12.5	AV	N	GND

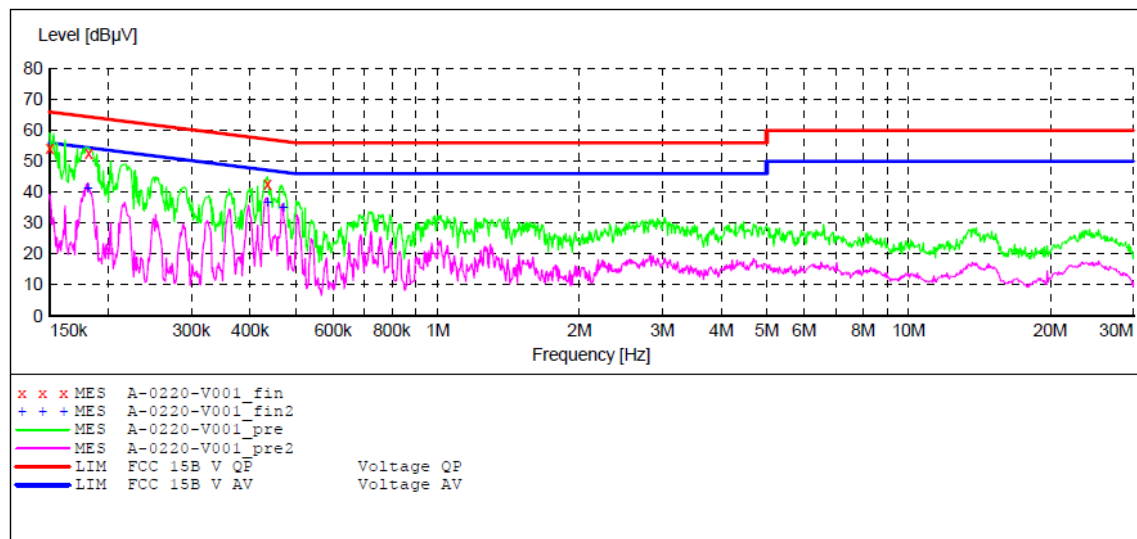
**ACCURATE TECHNOLOGY CO.,LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: LBA 7130RF M/N:LBA 7130RF  
 Manufacturer: LBtech  
 Operating Condition: Operation  
 Test Site: 1#Shielding Room  
 Operator: Alen  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2/20/2013 / 9:56:20AM

**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 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "A-0220-V001\_fin"**

2/20/2013 9:58AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	54.20	11.2	66	11.8	QP	L1	GND
0.181681	52.70	11.2	64	11.7	QP	L1	GND
0.435504	42.50	11.2	57	14.6	QP	L1	GND

**MEASUREMENT RESULT: "A-0220-V001\_fin2"**

2/20/2013 9:58AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180957	41.20	11.2	54	13.2	AV	L1	GND
0.435504	36.70	11.2	47	10.4	AV	L1	GND
0.469822	35.30	11.2	47	11.2	AV	L1	GND

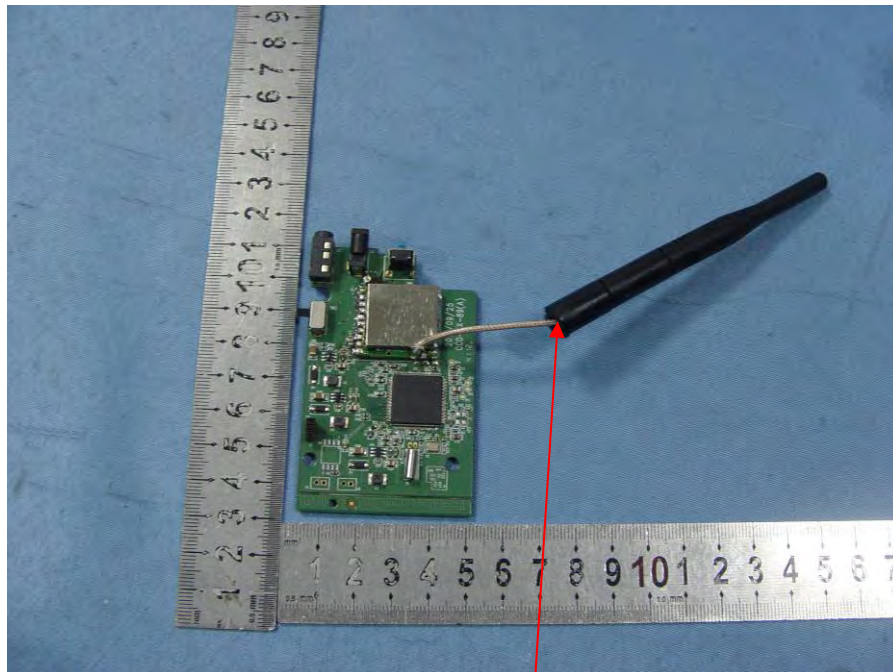
## 8. ANTENNA REQUIREMENT

### 8.1.The Requirement

8.1.1. 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.

### 8.2.Antenna Construction

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



Antenna

# APPENDIX I (Test Curves)



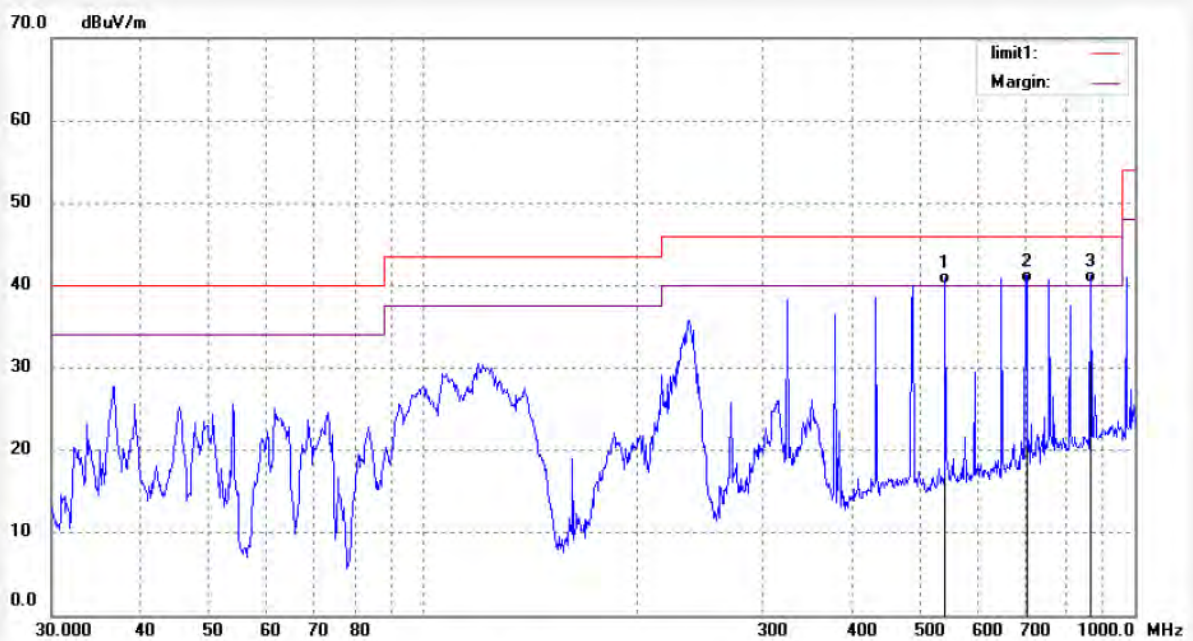
**ACCURATE TECHNOLOGY CO., LTD.**

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

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

Job No.: alen #151	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/20/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 9/00/08
EUT: LBA 7130RF	Engineer Signature: alen
Mode: TX 2408MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	541.3724	53.06	-12.87	40.19	46.00	-5.81	QP			
2	704.2260	50.01	-9.71	40.30	46.00	-5.70	QP			
3	866.0878	47.05	-6.69	40.36	46.00	-5.64	QP			



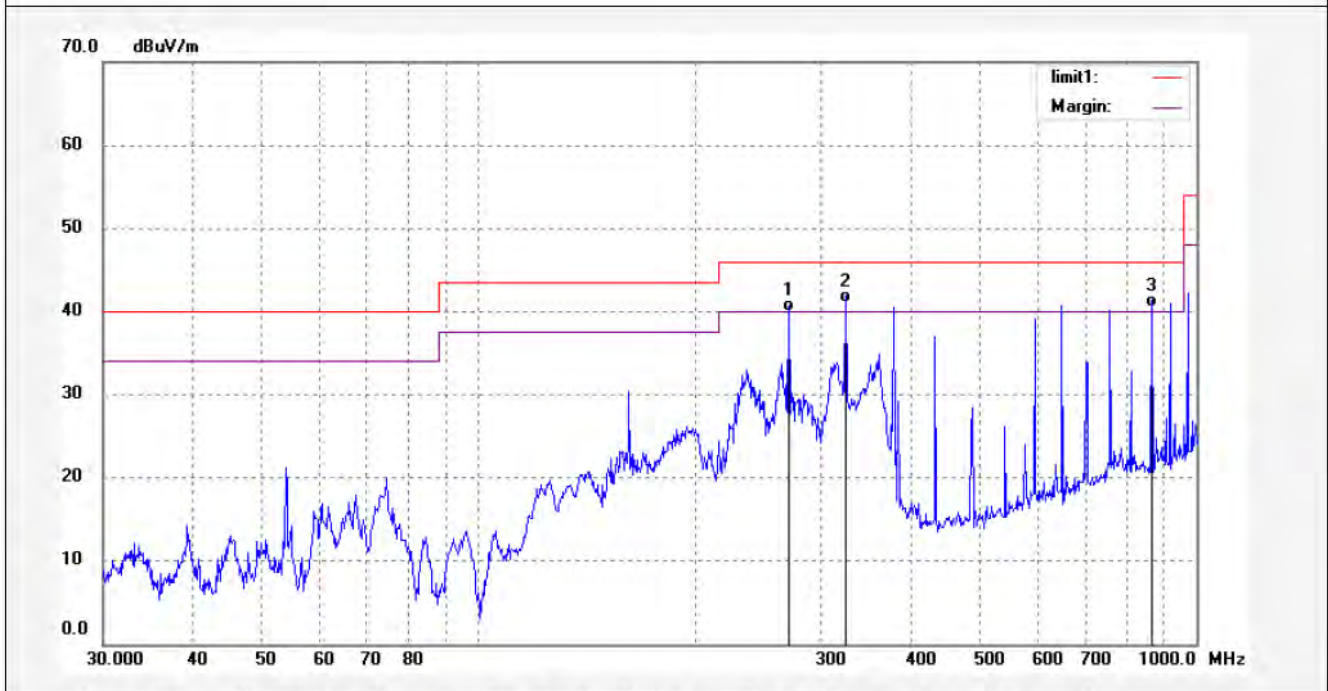
**ACCURATE TECHNOLOGY CO., LTD.**

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

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

Job No.: alen #152	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/20/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 9/00/47
EUT: LBA 7130RF	Engineer Signature: alen
Mode: TX 2408MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	270.3747	58.64	-18.68	39.96	46.00	-6.04	QP			
2	324.4560	58.30	-17.22	41.08	46.00	-4.92	QP			
3	866.0878	47.24	-6.69	40.55	46.00	-5.45	QP			



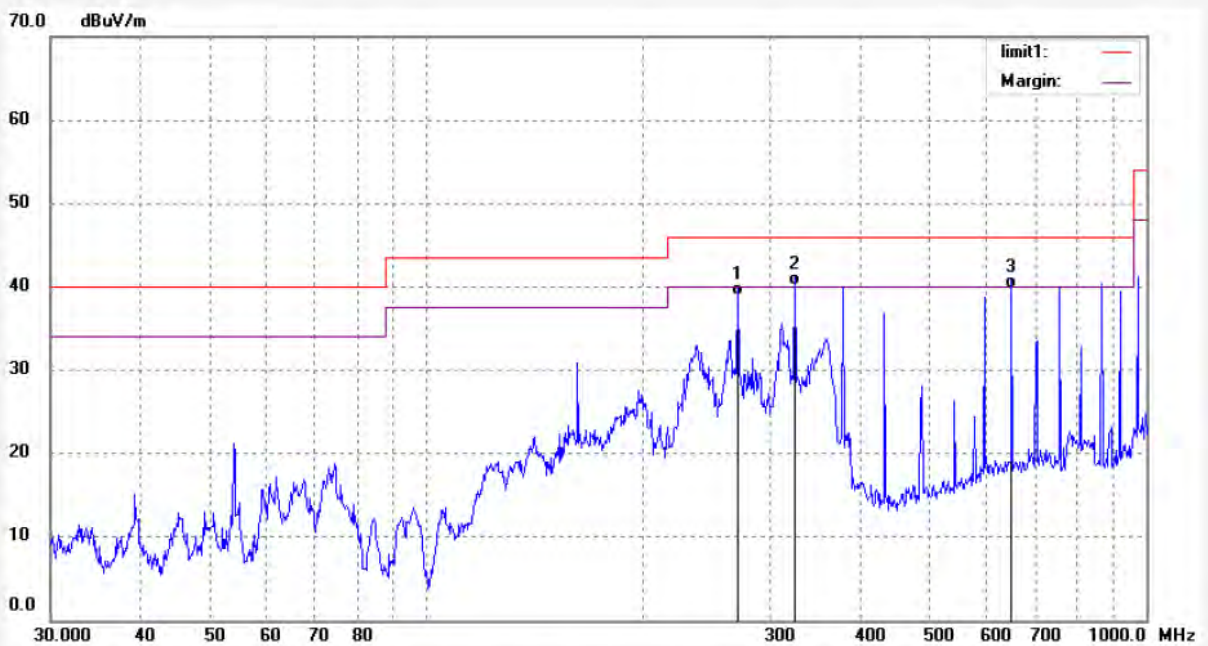
**ACCURATE TECHNOLOGY CO., LTD.**

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

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

Job No.: alen #153	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/20/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 9/01/16
EUT: LBA 7130RF	Engineer Signature: alen
Mode: TX 2440MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	270.3747	57.56	-18.68	38.88	46.00	-7.12	QP			
2	324.4560	57.36	-17.22	40.14	46.00	-5.86	QP			
3	649.6597	50.54	-10.66	39.88	46.00	-6.12	QP			





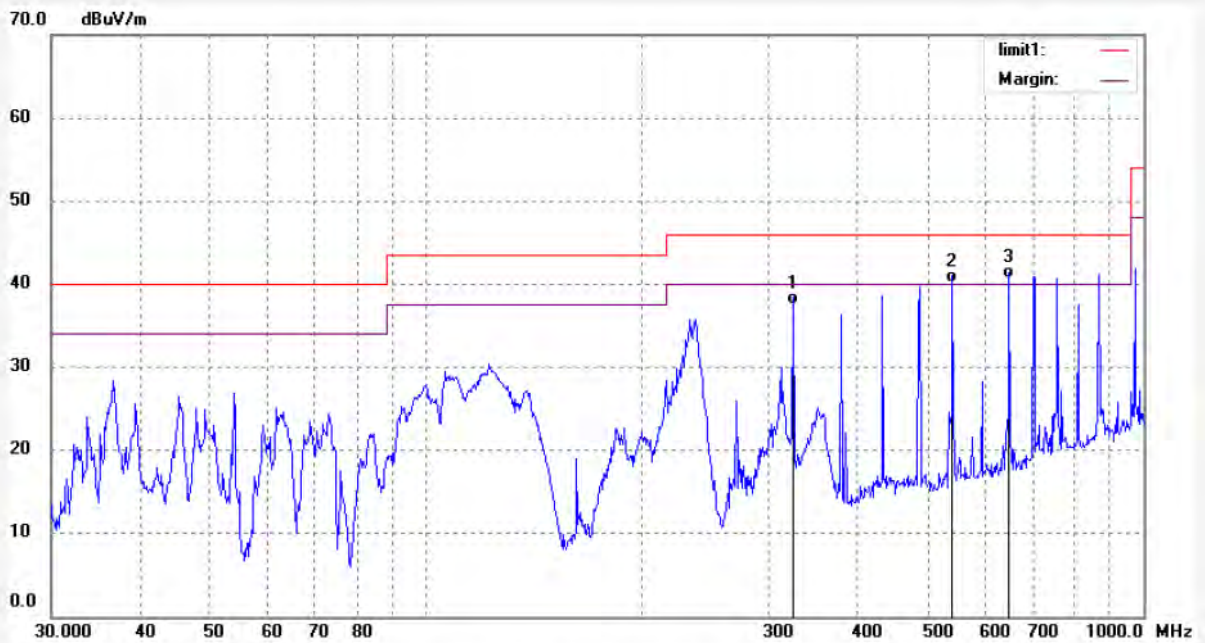
**ACCURATE TECHNOLOGY CO., LTD.**

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

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

Job No.: alen #154	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/20/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 9/01/50
EUT: LBA 7130RF	Engineer Signature: alen
Mode: TX 2440MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	324.4560	54.32	-16.80	37.52	46.00	-8.48	QP			
2	541.3724	53.12	-12.87	40.25	46.00	-5.75	QP			
3	649.6597	51.40	-10.66	40.74	46.00	-5.26	QP			



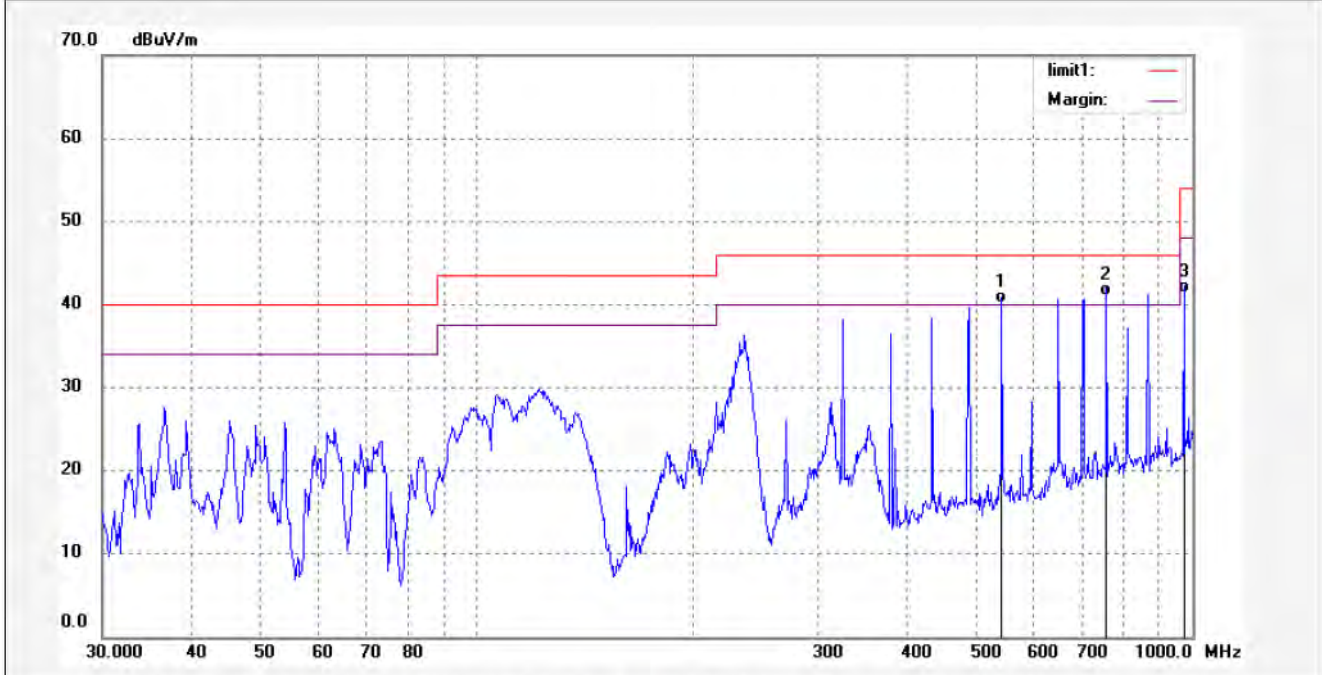
**ACCURATE TECHNOLOGY CO., LTD.**

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

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

Job No.: alen #155	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/20/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 9/02/06
EUT: LBA 7130RF	Engineer Signature: alen
Mode: TX 2468MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	541.3724	53.10	-12.87	40.23	46.00	-5.77	QP			
2	758.0407	49.56	-8.45	41.11	46.00	-4.89	QP			
3	972.3374	46.45	-5.08	41.37	54.00	-12.63	QP			



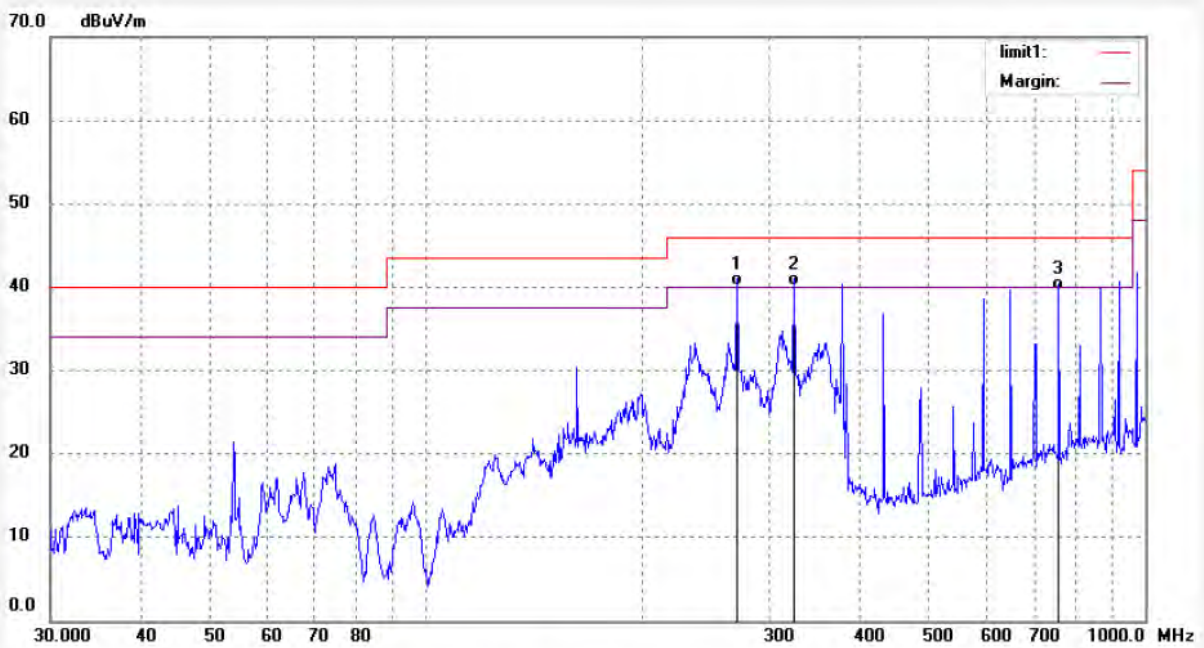
**ACCURATE TECHNOLOGY CO., LTD.**

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

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

Job No.: alen #156	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/20/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 9/02/48
EUT: LBA 7130RF	Engineer Signature: alen
Mode: TX 2468MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	270.3748	58.78	-18.68	40.10	46.00	-5.90	QP			
2	324.4561	57.39	-17.22	40.17	46.00	-5.83	QP			
3	758.0408	48.06	-8.45	39.61	46.00	-6.39	QP			



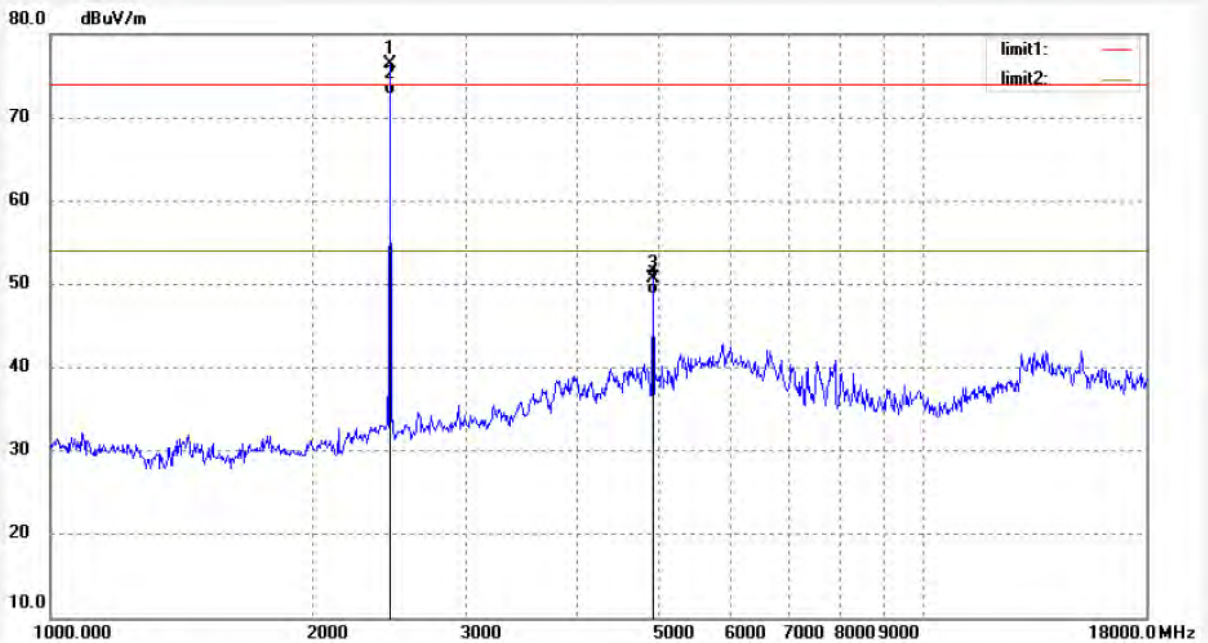
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #913	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/35/20
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2468MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2468.000	83.71	-7.33	76.38	114.00	-37.62	peak			
2	2468.000	80.12	-7.33	72.79	94.00	-21.21	AVG			
3	4936.000	50.42	0.24	50.66	74.00	-23.34	peak			
4	4936.000	48.58	0.24	48.82	54.00	-5.18	AVG			



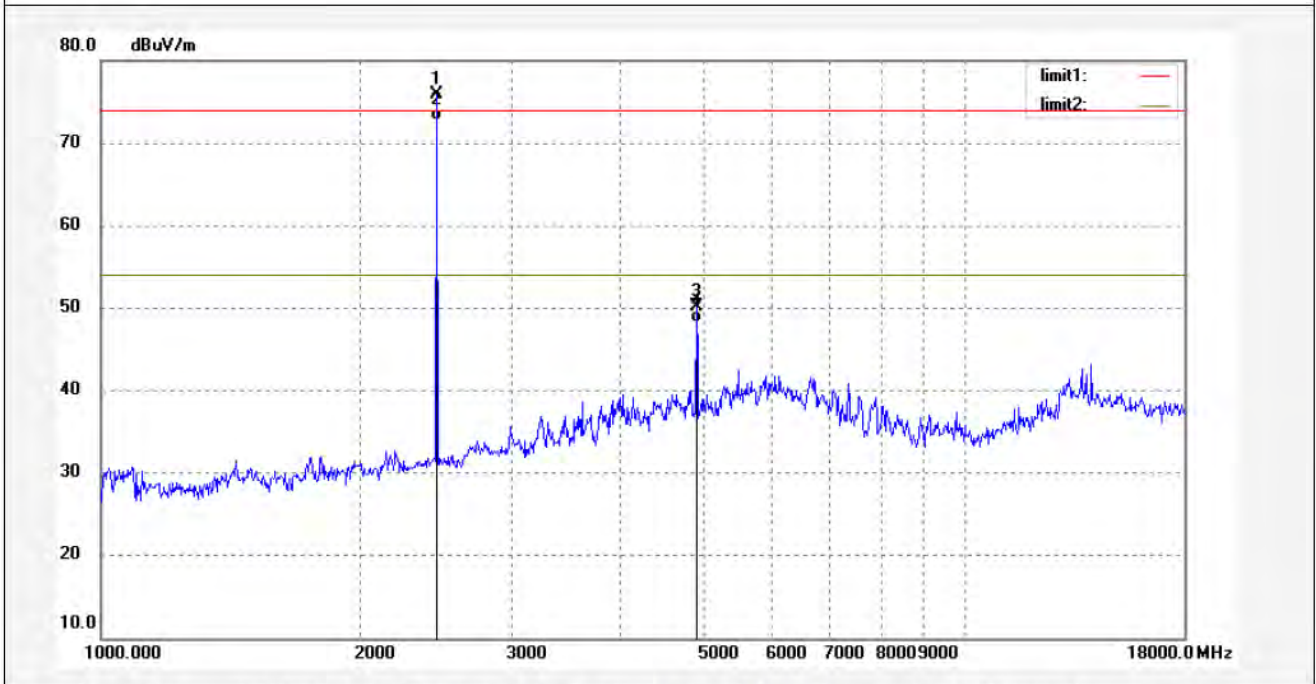
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #914	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/38/07
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2468MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2468.000	83.17	-7.33	75.84	114.00	-38.16	peak			
2	2468.000	80.04	-7.33	72.71	94.00	-21.29	AVG			
3	4936.000	50.00	0.24	50.24	74.00	-23.76	peak			
4	4936.000	48.03	0.24	48.27	54.00	-5.73	AVG			



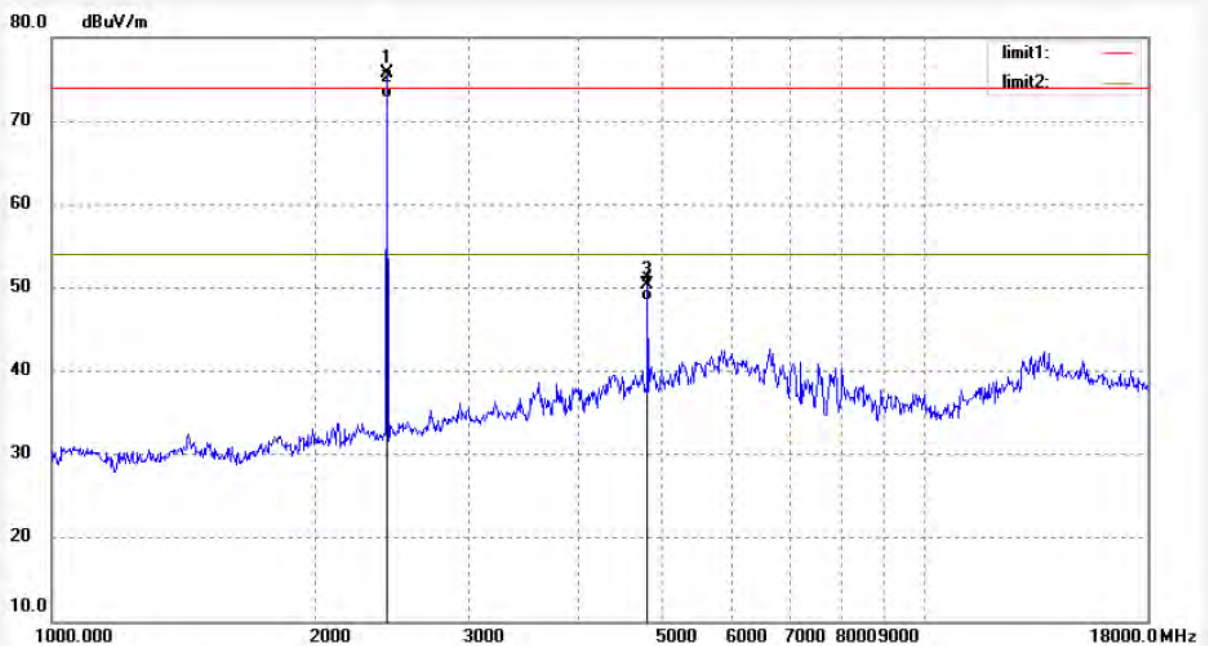
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #918	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/46/43
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2440MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	83.14	-7.40	75.74	114.00	-38.26	peak			
2	2440.000	80.12	-7.40	72.72	94.00	-21.28	AVG			
3	4880.000	50.60	-0.23	50.37	74.00	-23.63	peak			
4	4880.000	48.68	-0.23	48.45	54.00	-5.55	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

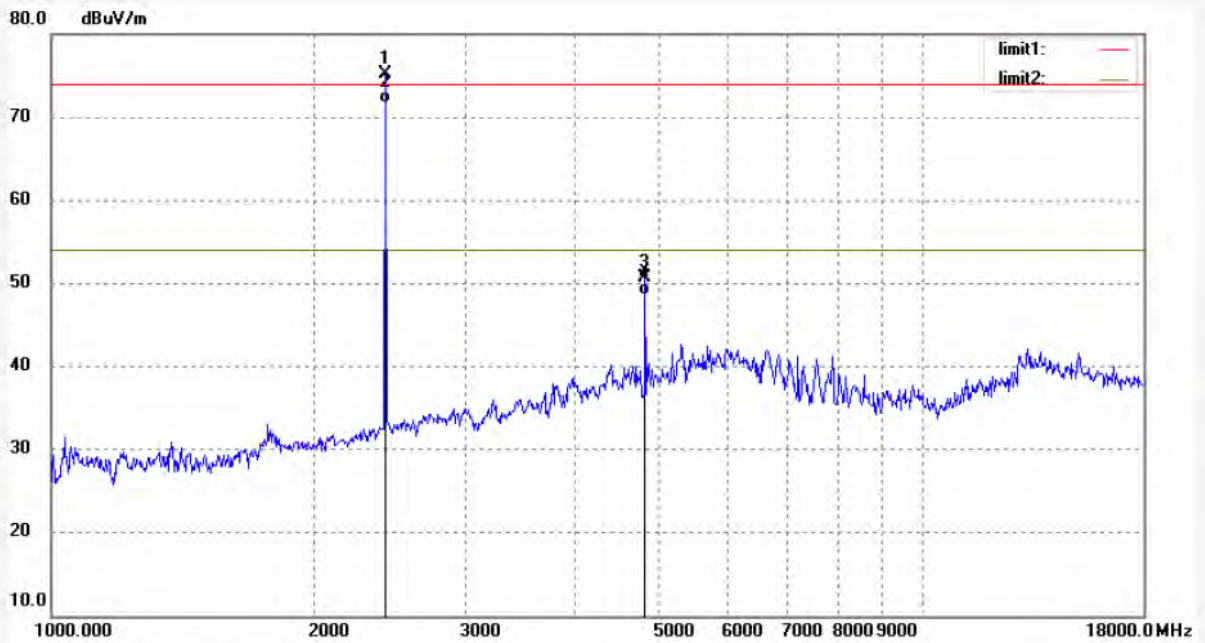
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: ALEN #919  
Standard: FCC PK  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 26 C / 55 %  
EUT: LBA 7130RF  
Mode: TX 2440MHz  
Model: LBA 7130RF  
Manufacturer: LBtech

Polarization: Horizontal  
Power Source: AC 120V/60Hz  
Date: 13/02/23/  
Time: 8/47/26  
Engineer Signature:  
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	82.57	-7.40	75.17	114.00	-38.83	peak			
2	2440.000	79.01	-7.40	71.61	94.00	-22.39	AVG			
3	4880.000	50.85	-0.23	50.62	74.00	-23.38	peak			
4	4880.000	48.89	-0.23	48.66	54.00	-5.34	AVG			



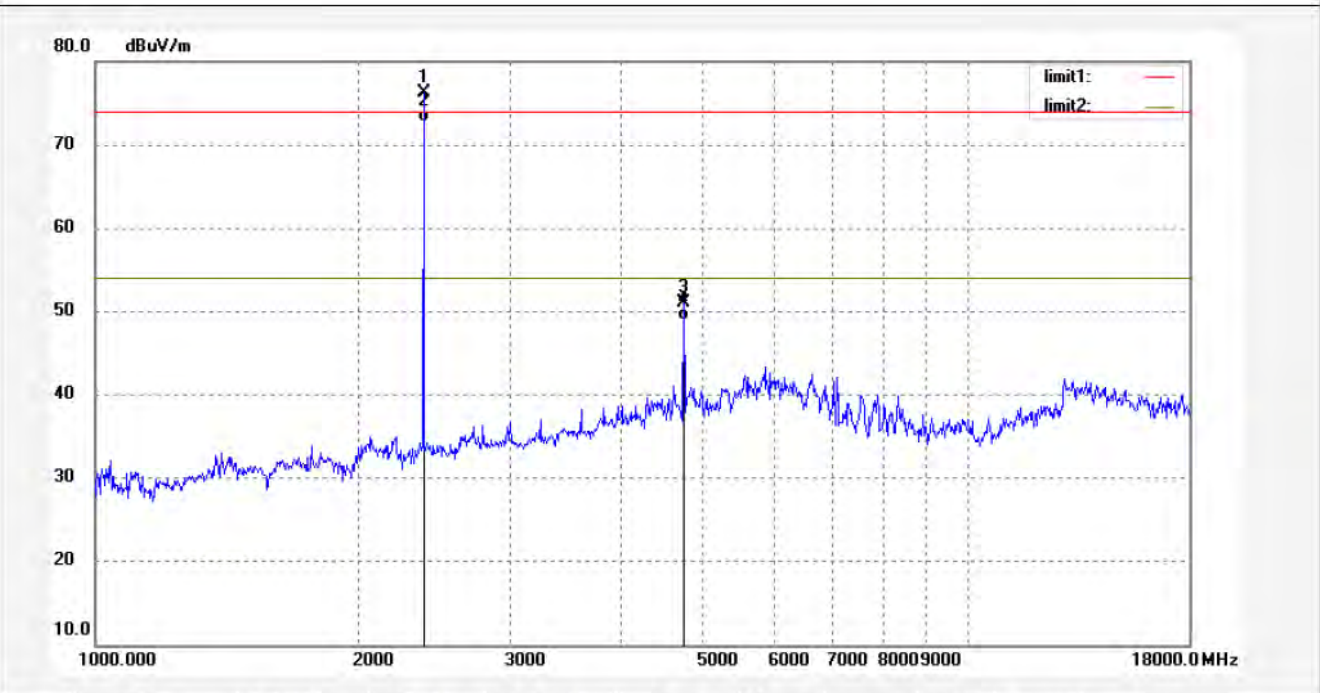
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #920	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/50/01
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2408MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.000	83.88	-7.59	76.29	114.00	-37.71	peak			
2	2408.000	80.32	-7.59	72.73	94.00	-21.27	AVG			
3	4816.000	51.83	-0.71	51.12	74.00	-22.88	peak			
4	4816.000	49.65	-0.71	48.94	54.00	-5.06	AVG			





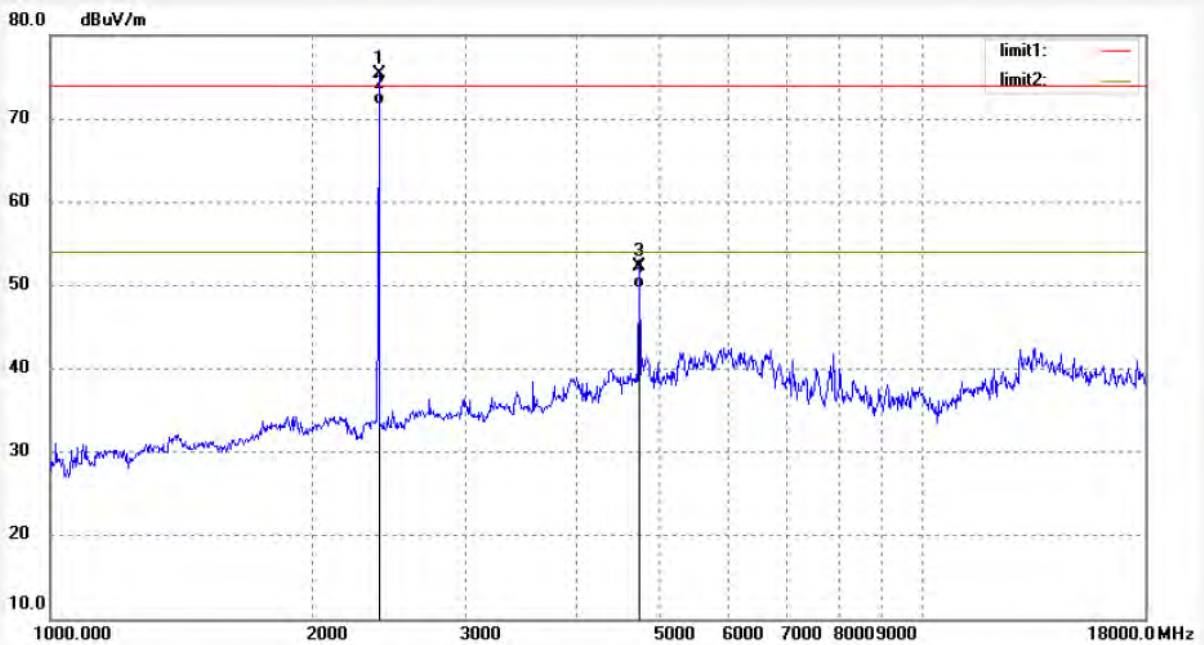
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #921	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/51/04
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2408MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.000	83.04	-7.59	75.45	114.00	-38.55	peak			
2	2408.000	79.32	-7.59	71.73	94.00	-22.27	AVG			
3	4816.000	52.95	-0.71	52.24	74.00	-21.76	peak			
4	4816.000	50.36	-0.71	49.65	54.00	-4.35	AVG			



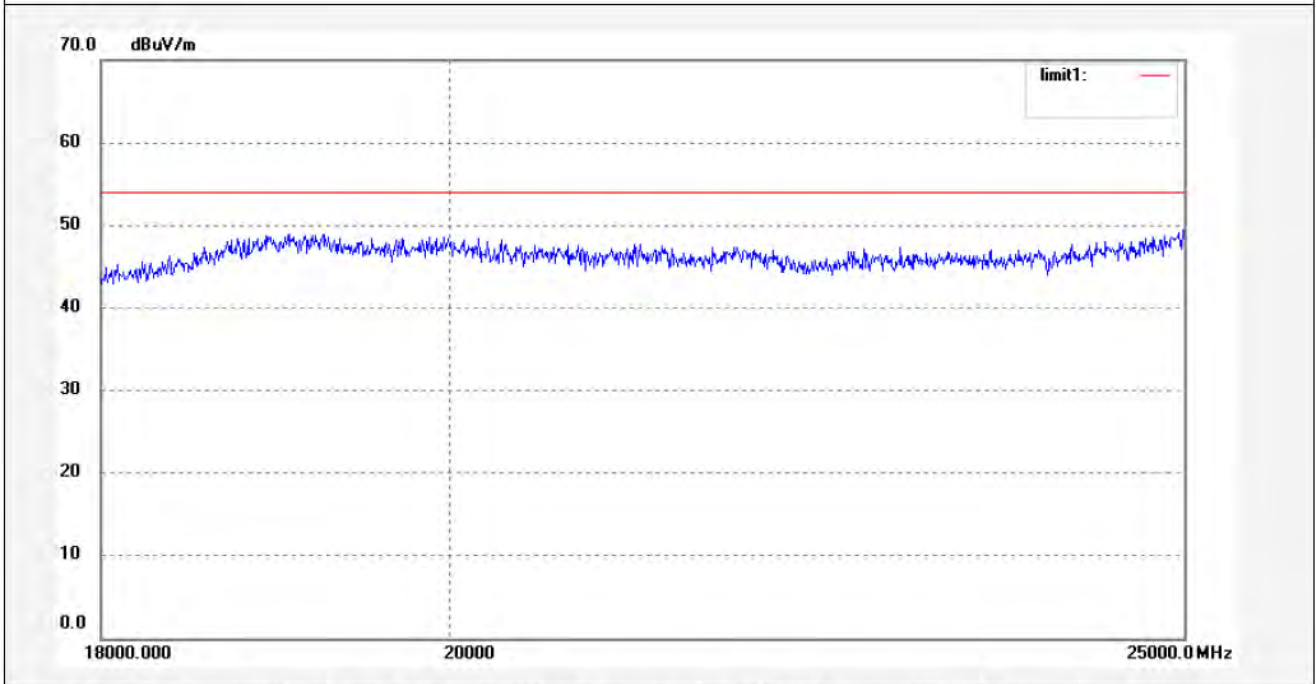
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Alen #248	Polarization: Vertical
Standard: FCC 15C	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/18/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 10:32:05
EUT: LBA 7130RF	Engineer Signature: Alen
Mode: TX 2408MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------



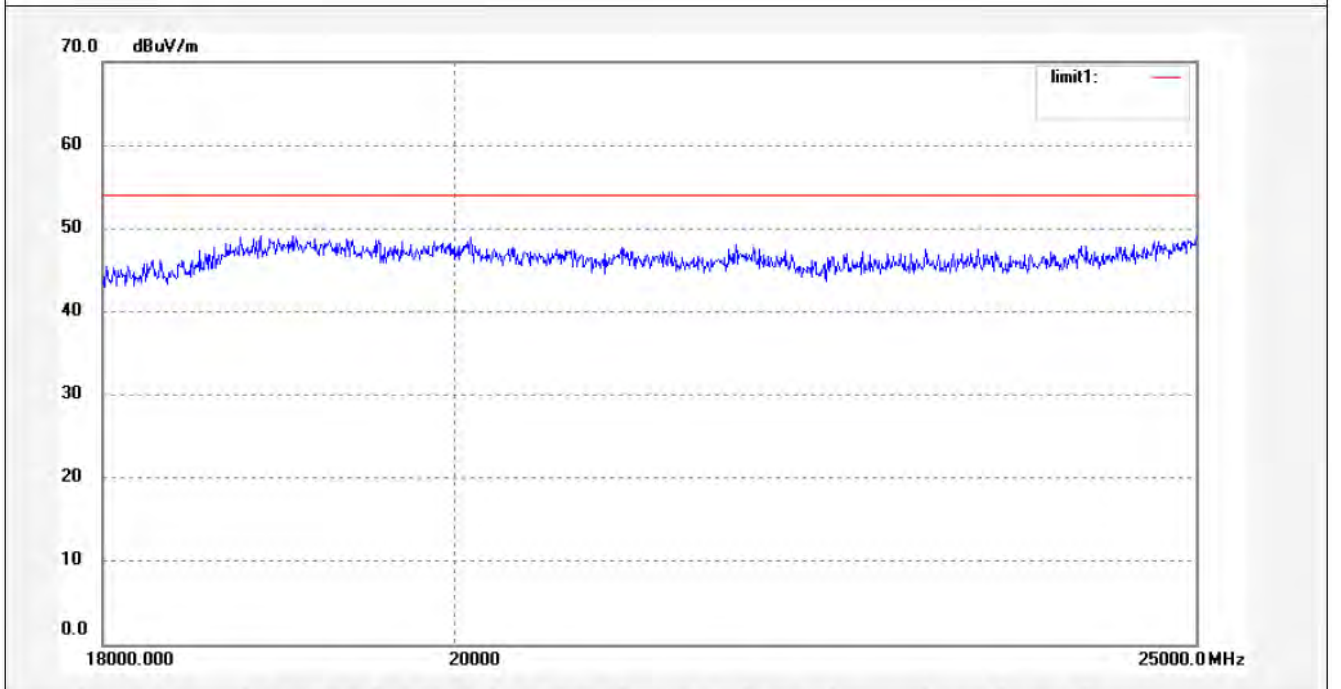
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Alen #249	Polarization: Horizontal
Standard: FCC 15C	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/18/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 10:37:56
EUT: LBA 7130RF	Engineer Signature: Alen
Mode: TX 2408MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------



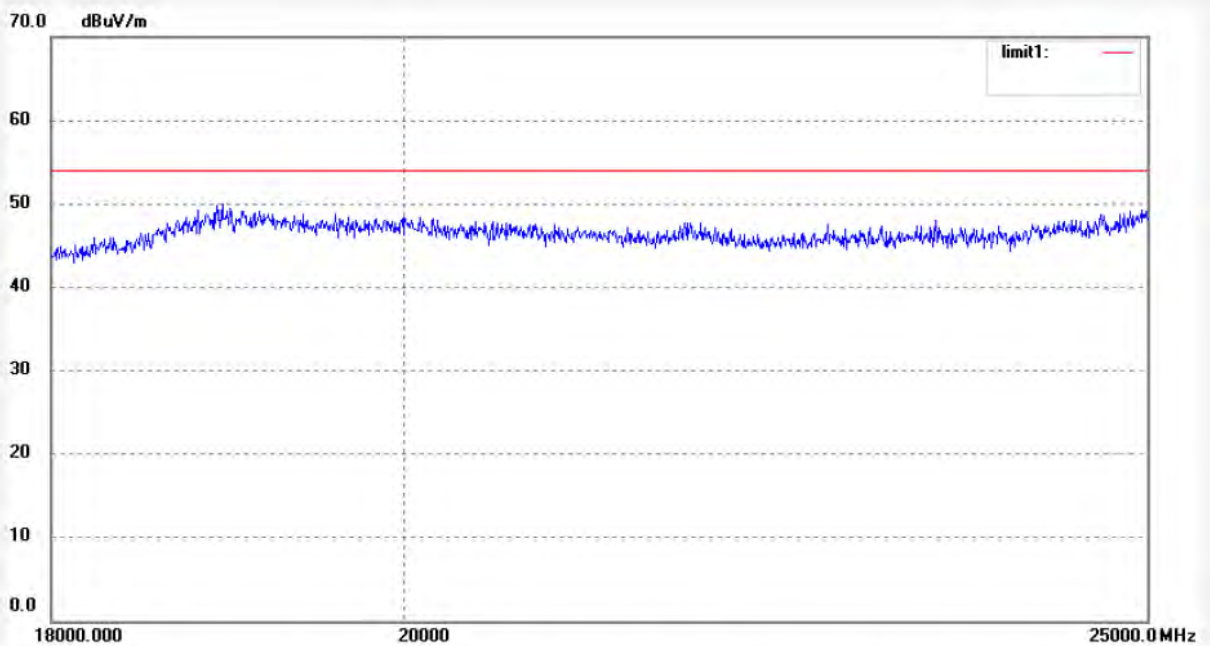
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Alen #250	Polarization: Horizontal
Standard: FCC 15C	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/18/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 10:40:38
EUT: LBA 7130RF	Engineer Signature: Alen
Mode: TX 2440MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------



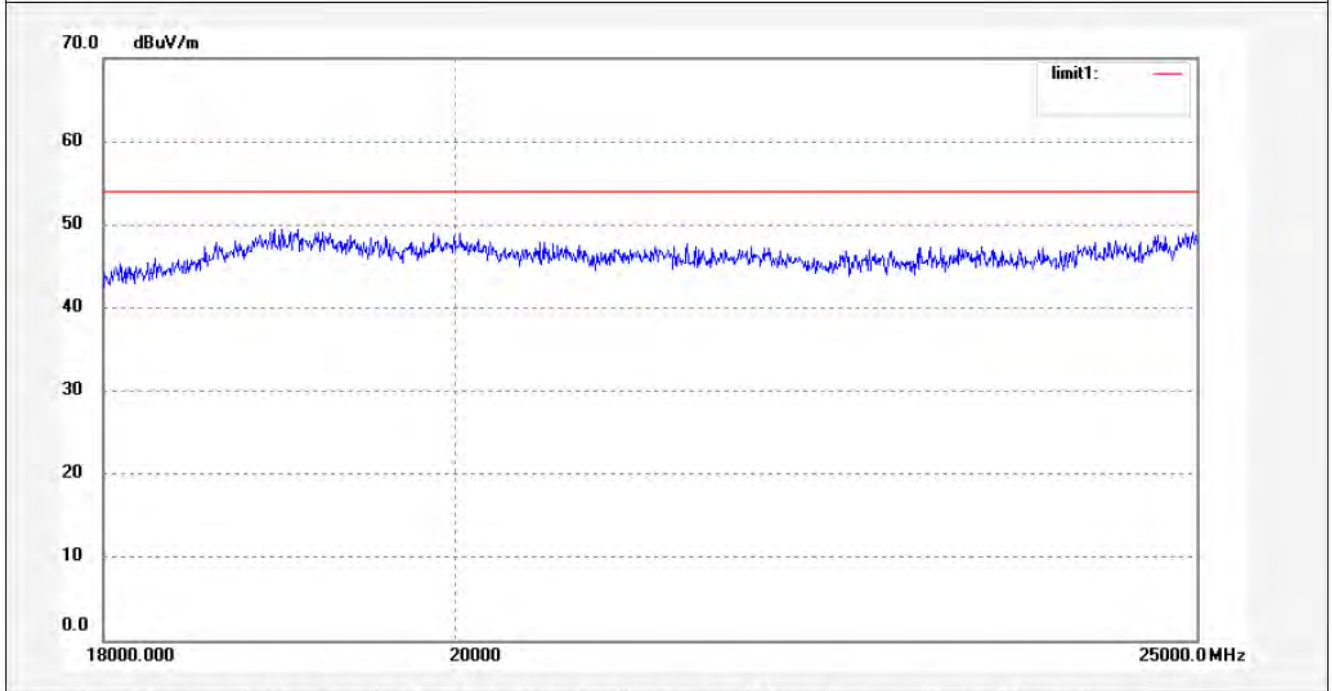
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Alen #251	Polarization: Vertical
Standard: FCC 15C	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/18/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 10:44:42
EUT: LBA 7130RF	Engineer Signature: Alen
Mode: TX 2440MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------



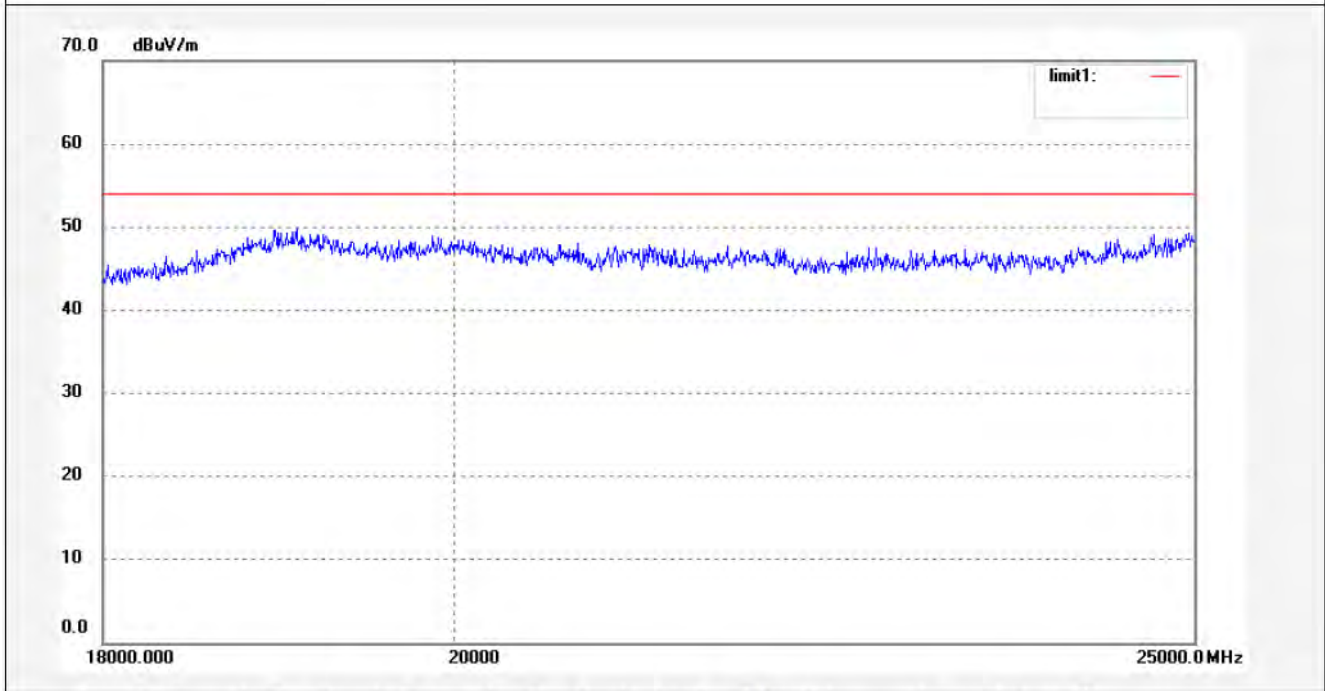
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Alen #252	Polarization: Vertical
Standard: FCC 15C	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/18/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 10:48:59
EUT: LBA 7130RF	Engineer Signature: Alen
Mode: TX 2468MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------



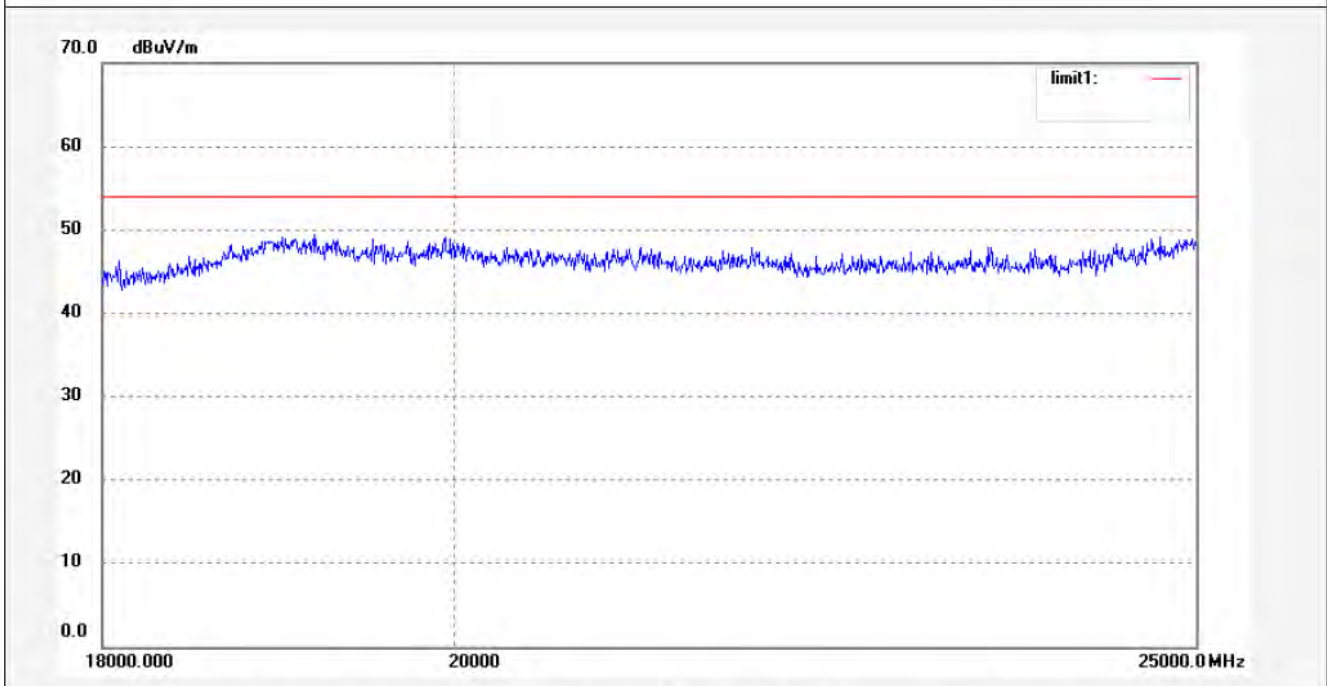
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Alen #253	Polarization: Horizontal
Standard: FCC 15C	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/18/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 10:52:35
EUT: LBA 7130RF	Engineer Signature: Alen
Mode: TX 2468MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	------------------	-------------	-----------------	----------------	-------------	----------	-------------	---------------	--------



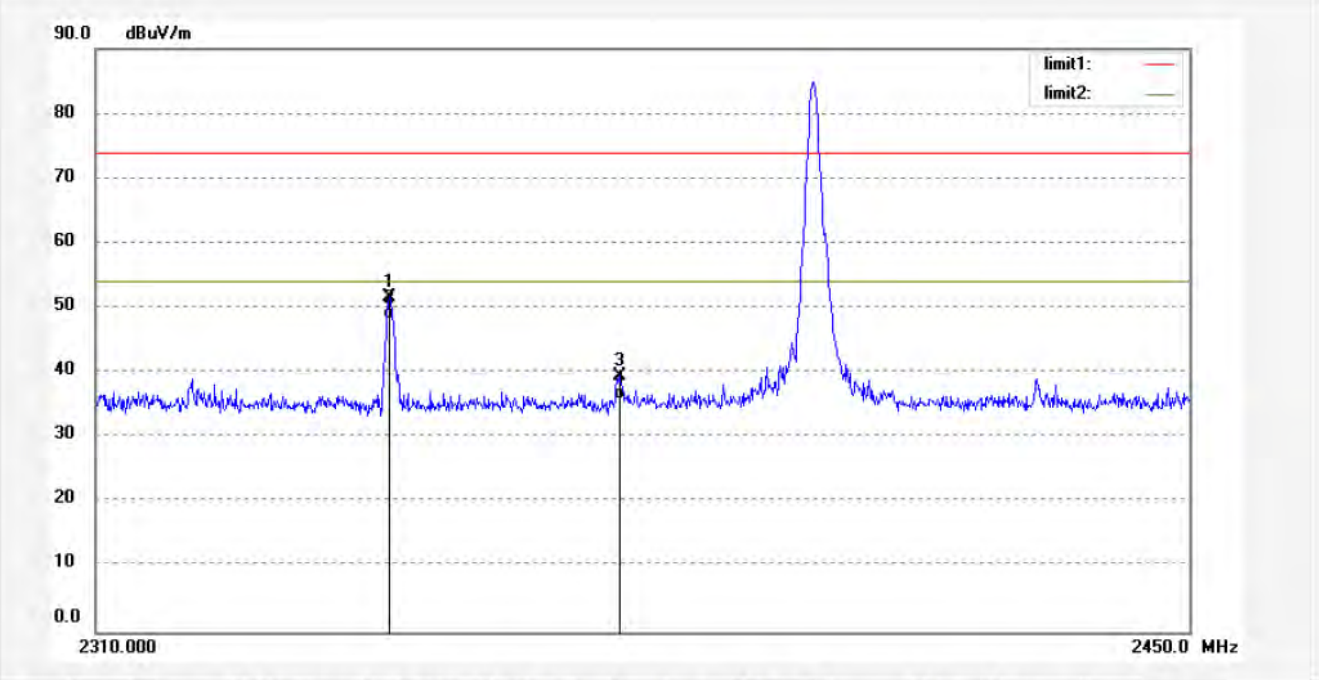
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #922	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/53/13
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2408MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2346.790	59.33	-7.80	51.53	74.00	-22.47	peak			
2	2346.790	56.02	-7.80	48.22	54.00	-5.78	AVG			
3	2376.027	47.09	-7.62	39.47	74.00	-34.53	peak			
4	2376.027	43.46	-7.62	35.84	54.00	-18.16	AVG			





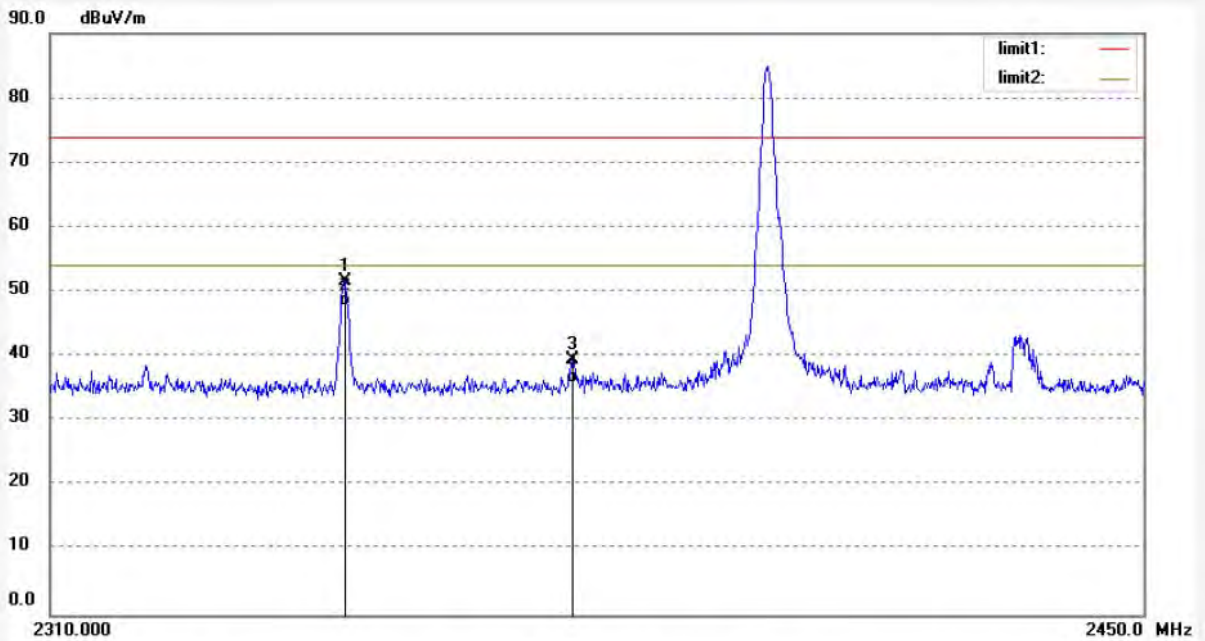
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #923	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/54/19
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2408MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2346.928	59.53	-7.80	51.73	74.00	-22.27	peak			
2	2346.928	55.68	-7.80	47.88	54.00	-6.12	AVG			
3	2375.887	47.16	-7.62	39.54	74.00	-34.46	peak			
4	2375.887	43.42	-7.62	35.80	54.00	-18.20	AVG			



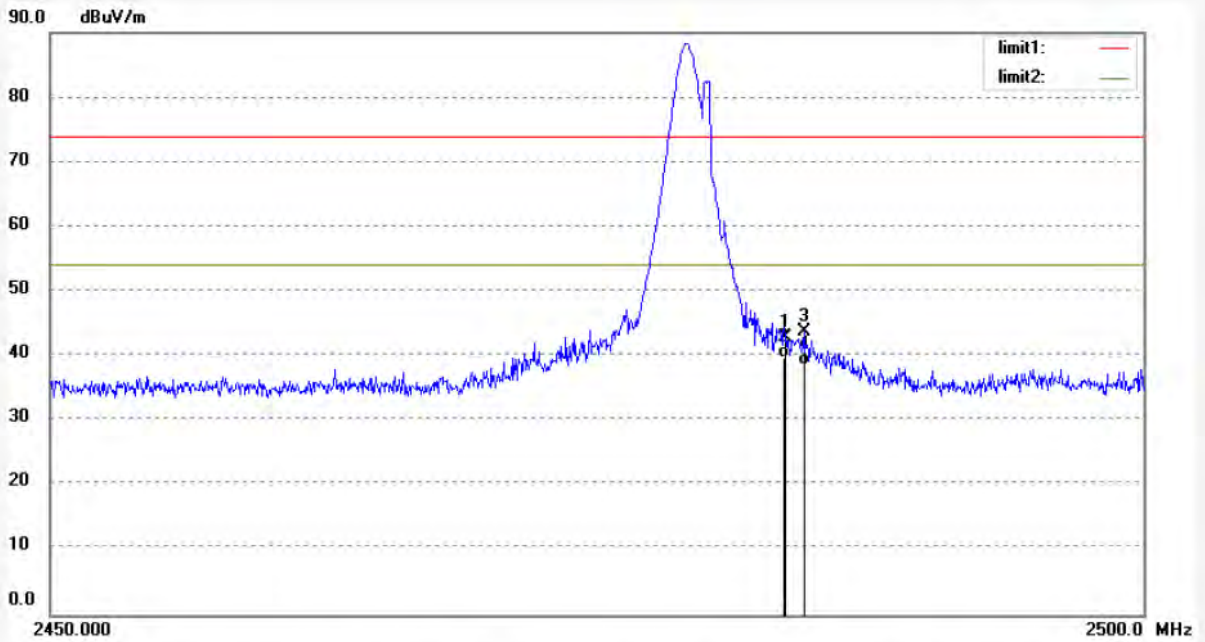
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #924	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/41/44
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2468MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.506	50.21	-7.37	42.84	74.00	-31.16	peak			
2	2483.506	47.12	-7.37	39.75	54.00	-14.25	AVG			
3	2484.360	51.05	-7.38	43.67	74.00	-30.33	peak			
4	2484.360	45.98	-7.38	38.60	54.00	-15.40	AVG			



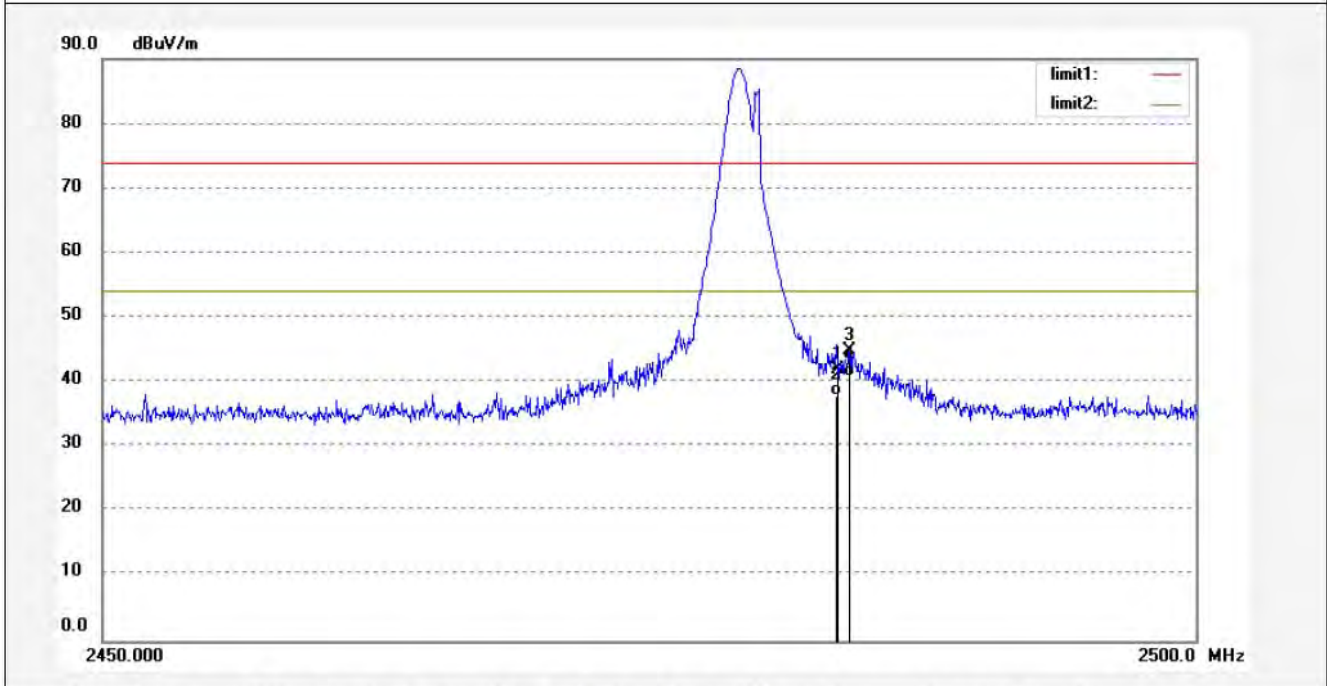
**ACCURATE TECHNOLOGY CO., LTD.**

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

Job No.: ALEN #925	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/23/
Temp.( C)/Hum.(%) 26 C / 55 %	Time: 8/40/57
EUT: LBA 7130RF	Engineer Signature:
Mode: TX 2468MHz	Distance: 3m
Model: LBA 7130RF	
Manufacturer: LBtech	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.506	49.25	-7.37	41.88	74.00	-32.12	peak			
2	2483.506	45.32	-7.37	37.95	54.00	-16.05	AVG			
3	2484.059	52.20	-7.38	44.82	74.00	-29.18	peak			
4	2484.059	48.12	-7.38	40.74	54.00	-13.26	AVG			