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APPLICATION CERTIFICATION FCC Part 15C On Behalf of OKIN Refined Electric Technology Co., Ltd

Remote Handset

Model No.: JLDK.37.17.01, JLDK.37.18.01, JLDK.37.18.02, JLDK.37.09.01, JLDK.37.06.01, JLDK.37.17.03, JLDK.37.18.05, JLDK.37.18.06, JLDK.37.09.03, JLDK.37.06.03, JLDK.37.17.02, JLDK.37.18.03, JLDK.37.18.04, JLDK.37.09.02, JLDK.37.06.02

FCC ID: PCU-JLDK37

Prepared for : OKIN Refined Electric Technology Co., Ltd

Address : Plant 4, No. 410 Xinyonglian Road, Wangjiangjing

Development Zone, Jiaxing, Zhejiang, China

Prepared by : ACCURATE TECHNOLOGY CO., LTD

Address : F1, Bldg. A, Chan Yuan New Material Port, Keyuan

Rd. Science & Industry Park, Nan Shan, Shenzhen,

Guangdong P.R. China

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

Report Number: ATE20161015

Date of Test : May 24, 2016--May 31, 2016

Date of Report: May 31, 2016





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The Requirement60

ANTENNA REQUIREMENT......60

7.5. 7.6.

7.7.

8.1.

8.2.

8.



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Test Report Certification

Applicant: OKIN Refined Electric Technology Co., Ltd

Address : Plant 4, No. 410 Xinyonglian Road, Wangjiangjing

Development Zone, Jiaxing, Zhejiang, China

Manufacturer: OKIN Refined Electric Technology Co., Ltd

Address : Plant 4, No. 410 Xinyonglian Road, Wangjiangjing

Development Zone, Jiaxing, Zhejiang, China

Product : Remote Handset

JLDK.37.17.01, JLDK.37.18.01, JLDK.37.18.02,

JLDK.37.09.01, JLDK.37.06.01, JLDK.37.17.03,

Model No. : JLDK.37.18.05, JLDK.37.18.06, JLDK.37.09.03,

JLDK.37.06.03, JLDK.37.17.02, JLDK.37.18.03,

JLDK.37.18.04, JLDK.37.09.02, JLDK.37.06.02

Trade Name : ComfortBase, KINGSDOWN, KING KOIL

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.10: 2013

The EUT was tested according to FCC 47CFR 15.249 for compliance to FCC 47CFR 15.249 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 15.249 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 :	May 24, 2016May 31, 2016
Date of Report :	May 31, 2016
Prepared by :	7 in Zhang
	(Tim.zhang, Engineer)
Approved & Authorized Signer :	Lemb
	(Sean Liu, Manager)



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1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT Remote Handset

Model Number JLDK.37.17.01, JLDK.37.18.01, JLDK.37.18.02,

> JLDK.37.09.01, JLDK.37.06.01, JLDK.37.17.03, JLDK.37.18.05, JLDK.37.18.06, JLDK.37.09.03, JLDK.37.06.03, JLDK.37.17.02, JLDK.37.18.03, JLDK.37.18.04, JLDK.37.09.02, JLDK.37.06.02

Power Supply 4.5V DC (batteries $3\times$) :

Operate Frequency : 2406.999080-2457.387561MHz

Antenna Gain 0dBi

Antenna type PCB Antenna

Applicant OKIN Refined Electric Technology Co., Ltd

Address Plant 4, No. 410 Xinyonglian Road, Wangjiangjing

Development Zone, Jiaxing, Zhejiang, China

Manufacturer OKIN Refined Electric Technology Co., Ltd

Address Plant 4, No. 410 Xinyonglian Road, Wangjiangjing

Development Zone, Jiaxing, Zhejiang, China

Date of sample received: May 24, 2016

Date of Test May 24, 2016--May 31, 2016

1.2. Special 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

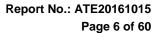
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)

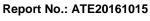




2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Туре	S/N	Calibrated dates	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 09, 2016	One Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 09, 2016	One Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 09, 2016	One Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 09, 2016	One Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 14, 2016	One Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2016	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2016	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 14, 2016	One Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 09, 2016	One Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 09, 2016	One Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 09, 2016	One Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 09, 2016	One Year





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3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

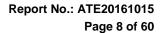
The mode is used: **Transmitting mode**

Low Channel: 2406.999080MHz Middle Channel: 2431.793833MHz High Channel: 2457.387561MHz

3.2. Configuration and peripherals

EUT

Figure 1 Setup: Transmitting mode



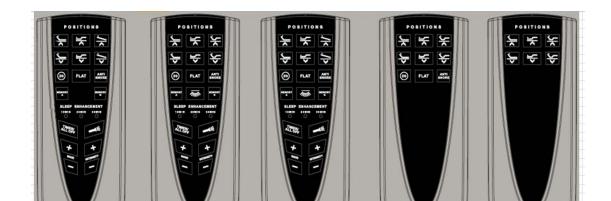
JLDK. 37. 06. 01

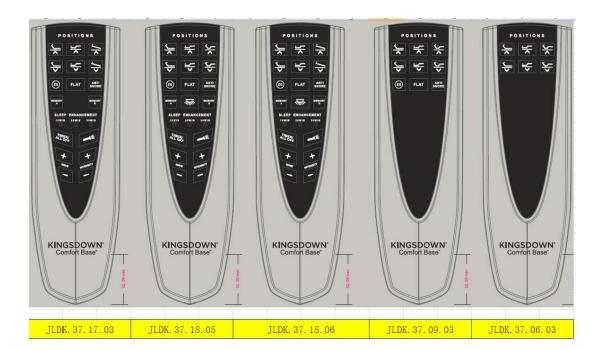


3.3. Product introduction

JLDK. 37. 17. 01

JLDK. 37. 18. 01



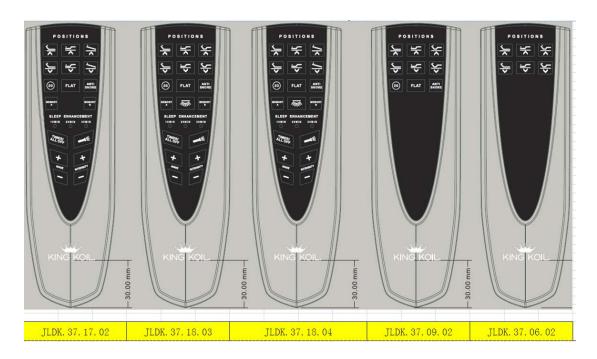


JLDK. 37. 18. 02

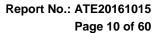
JLDK. 37. 09. 01







Note: Please look at the differences between the three groups of photos above. Please focus on the number of keys, product models and trademarks. You can find the number of keys and Trade Mark are different, besides, the software programs is different. Photos showing the corresponding product model. But they have the same PCB board and RF module. After evaluation, we will test five groups of samples about the Radiated spurious emission(below 1GHz) and then record in the report. We choose a sample to test other project, the model of sample is JLDK.37.17.01.

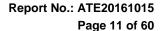




4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result			
Section 15.215(c)	20dB Bandwidth	Compliant			
Section 15.249(d)	Band Edge Compliance Test	Compliant			
Section 15.205(a), Section 15.209(a), Section 15.249, Section 15.35	Radiated Spurious Emission Test	Compliant			
Section 15.207	AC Power Line Conducted Emission Test	N/A			
Section 15.203	Antenna Requirement	Compliant			

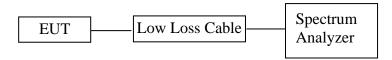
Note: The power supply mode of the EUT is DC 4.5V(Battery 3*), According to the FCC standard requirements, conducted emission is not applicable.





5. 20DB BANDWIDTH MEASUREMENT

5.1.Block Diagram of Test Setup



5.2. The Requirement For Section 15.215(c)

The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset while the long-term distribution appears evenly distributed.

5.3. Operating Condition of EUT

- 5.3.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.3.2. Turn on the power of all equipment.
- 5.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 2406.999080, 2431.793833, 2457.387561MHz.

5.4.Test Procedure

- 5.4.1. Place the EUT on the table and set it in transmitting mode.
- 5.4.2.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 5.4.3.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz, Detector function=peak, Trace=max hold, Sweep=auto.
- 5.4.4.Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

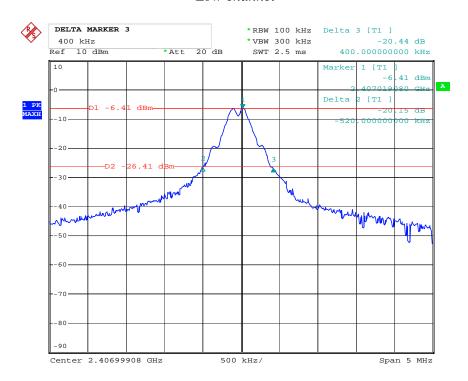


5.5.Test Result

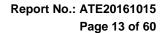
Channel	Frequency(MHz)	20 dB Bandwidth(MHz)				
Low	2406.999080	0.920				
Middle	2431.793833	0.950				
High	2457.387561	0.940				

The spectrum analyzer plots are attached as below.

Low channel

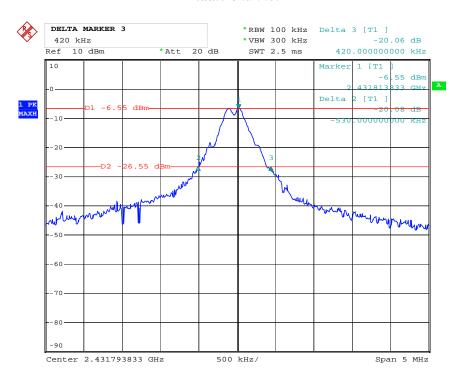


Date: 25.MAY.2016 15:27:03



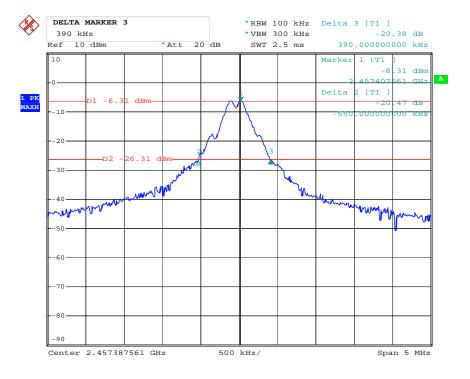


Middle channel



Date: 25.MAY.2016 14:51:54

High channel



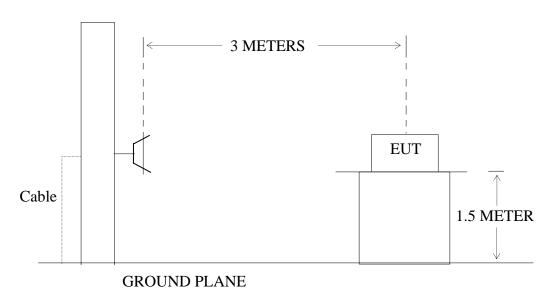
Date: 25.MAY.2016 15:04:54



6. BAND EDGE COMPLIANCE TEST

6.1.Block Diagram of Test Setup

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



6.2. The Requirement For Section 15.249

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 A8.4(4), the attenuation required 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).

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.



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6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT and simulator as shown as Section 6.1.
- 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 2406.999080, 2457.387561.

6.5. Test Procedure

Radiate Band Edge:

- 6.5.1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
- 6.5.2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 6.5.3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 6.5.4. 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

6.5.5. The band edges was measured and recorded.

6.6.Test Result



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Page 16 of 60 Site: 2# Chamber

Report No.: ATE20161015

Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: Ricky 2016 #743 Polarization: Horizontal Standard: FCC PK Power Source: DC 4.5V

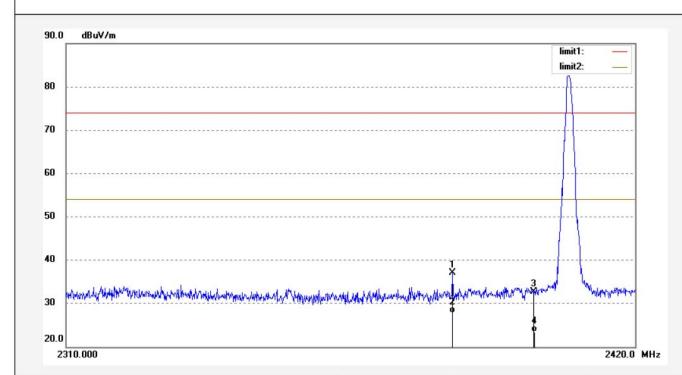
Test item: Radiation Test Date: 16/05/31/

 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 10/24/18

 EUT: Remote Handset
 Engineer Signature:

 Mode: TX 2406.999080MHz
 Distance: 3m

Model: JLDK.37.17.01 Manufacturer: OKIN



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2384.171	44.64	-7.61	37.03	74.00	-36.97	peak			
2	2384.171	35.45	-7.61	27.84	54.00	-26.16	AVG			
3	2400.000	40.11	-7.50	32.61	74.00	-41.39	peak			
4	2400.000	30.98	-7.50	23.48	54.00	-30.52	AVG	×	· · · · · · · · · · · · · · · · · · ·	



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Page 17 of 60

Report No.: ATE20161015

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

Job No.: Ricky 2016 #742 Polarization: Vertical
Standard: FCC PK Power Source: DC 4.5V

Test item: Radiation Test Power Source: DC 4.5

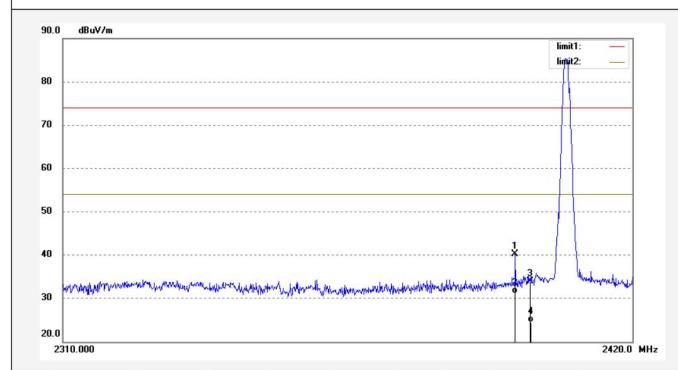
 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 10/22/51

 EUT: Remote Handset
 Engineer Signature:

 Mode: TX 2406.999080MHz
 Distance: 3m

Model: JLDK.37.17.01

Manufacturer: OKIN



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2396.985	47.73	-7.52	40.21	74.00	-33.79	peak			
2	2396.985	38.55	-7.52	31.03	54.00	-22.97	AVG		.)	
3	2400.000	41.33	-7.50	33.83	74.00	-40.17	peak			
4	2400.000	32.01	-7.50	24.51	54.00	-29.49	AVG		·	



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Page 18 of 60

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Report No.: ATE20161015

Polarization: Horizontal Power Source: DC 4.5V

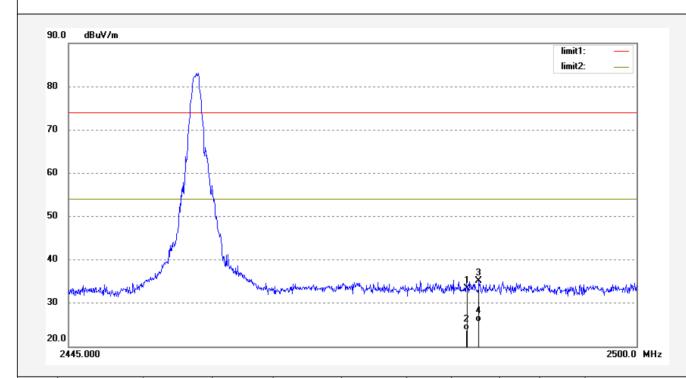
Date: 16/05/31/ Time: 10/26/37 Engineer Signature: Distance: 3m

Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %

Job No.: Ricky 2016 #744

EUT: Remote Handset
Mode: TX 2457.387561MHz

Model: JLDK.37.17.01 Manufacturer: OKIN



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	40.75	-7.38	33.37	74.00	-40.63	peak			
2	2483.500	31.15	-7.38	23.77	54.00	-30.23	AVG			
3	2484.612	42.46	-7.39	35.07	74.00	-38.93	peak			
4	2484.612	33.11	-7.39	25.72	54.00	-28.28	AVG			



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

Report No.: ATE20161015

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Job No.: Ricky 2016 #745

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset

Mode: TX 2457.387561MHz

Model: JLDK.37.17.01

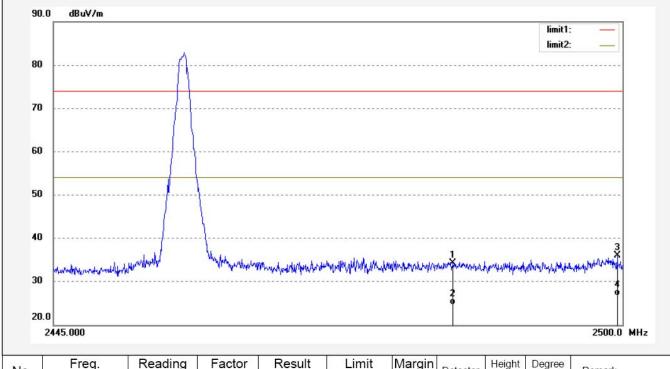
Manufacturer: OKIN

Note: Report NO.:ATE20161015

Polarization: Vertical

Power Source: DC 4.5V

Date: 16/05/31/ Time: 10/28/44 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	41.59	-7.38	34.21	74.00	-39.79	peak			
2	2483.500	32.08	-7.38	24.70	54.00	-29.30	AVG			
3	2499.499	43.39	-7.40	35.99	74.00	-38.01	peak			
4	2499.499	34.19	-7.40	26.79	54.00	-27.21	AVG			

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.
- 4. The average measurement was not performed when peak measured data under the limit of average detection.



7. RADIATED SPURIOUS EMISSION TEST

7.1.Block Diagram of Test Setup

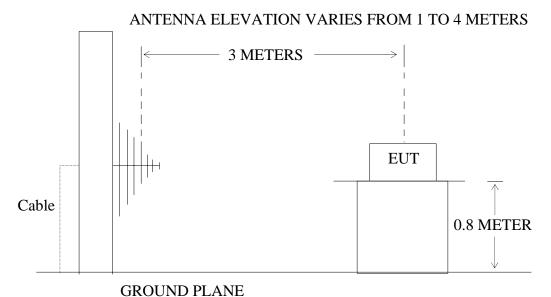
7.1.1.Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: Remote Handset)

7.1.2.Semi-Anechoic Chamber Test Setup Diagram



Cable

Cable

1.5 METER

GROUND PLANE



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7.2. The Limit For Section 15.249

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 A8.4(4), 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).

7.3. Restricted bands of operation

7.3.1.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:

	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	$\binom{2}{}$									
13.36-13.41												

Until 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.

²Above 38.6



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7.4. 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.

7.5. Operating Condition of EUT

- 7.5.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.5.2. Turn on the power of all equipment.
- 7.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2406.999080, 2431.793833, 2457.387561.

7.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter(Below 1GHz) and 1.5m(above 1GHz) 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 C63.10: 2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

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

The frequency range from 9 kHz to 25GHz 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.

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz

Peak detector above 1GHz

RBW (1 MHz), VBW (3MHz) for Peak measurement

RBW (1 MHz), VBW (10Hz) for AV measurement

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

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



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

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

- 2. *: Denotes restricted band of operation.
- 3. The EUT is tested radiation emission in three axes. The worst emissions are reported in all channels.
- 4. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.
- 5. The average measurement was not performed when peak measured data under the limit of average detection.
- 6. The 18-25GHz emissions are not reported, because the levels are too low against the limit



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

Fax:+86-0755-26503396

Below 1GHz(Model: JLDK.37.17.01)



ACCURATE TECHNOLOGY CO., LTD.

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

Polarization: Horizontal Power Source: DC 4.5V

Date: 16/05/28/
Time: 10/53/11
Engineer Signature:
Distance: 3m

Job No.: Ricky 2016 #696 Standard: FCC Class B 3M Radiated

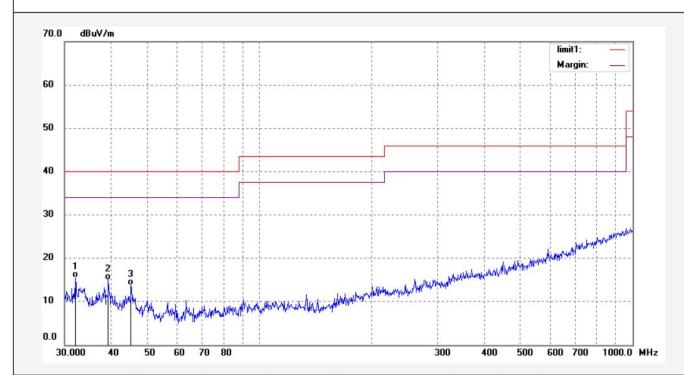
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset

Mode: TX 2406.999080MHz

Model: JLDK.37.17.01 Manufacturer: OKIN



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.0711	32.59	-17.09	15.50	40.00	-24.50	QP			
2	39.3204	33.93	-18.88	15.05	40.00	-24.95	QP			
3	45.2538	33.15	-19.45	13.70	40.00	-26.30	QP			



Page 25 of 60 Site: 1# Chamber Tel:+86-0755-26503290

Fax:+86-0755-26503396

Report No.: ATE20161015

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

Vertical

Date: 16/05/28/ Time: 10/55/28 Engineer Signature: Distance: 3m

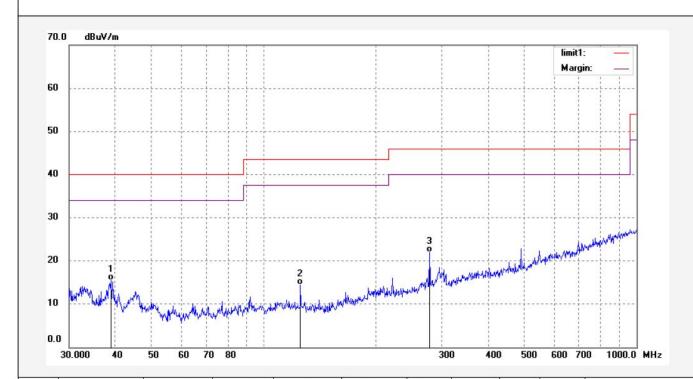
Job No.: Ricky 2016 #697 Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Remote Handset Mode: TX 2406.999080MHz

Model: JLDK.37.17.01 Manufacturer: OKIN

Test item: Radiation Test

Report NO.:ATE20161015 Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	38.9080	34.19	-18.75	15.44	40.00	-24.56	QP			
2	125.3645	35.99	-21.56	14.43	43.50	-29.07	QP			
3	278.3308	38.80	-16.80	22.00	46.00	-24.00	QP			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Page 26 of 60
Site: 1# Chamber

Report No.: ATE20161015

Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: Ricky 2016 #695

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset

Mode: TX 2431.793833MHz

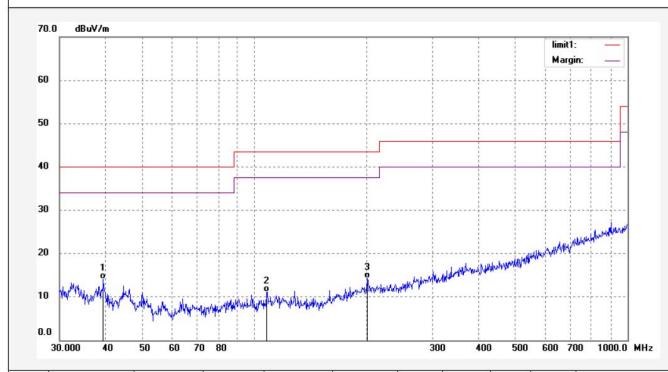
Model: JLDK.37.17.01 Manufacturer: OKIN

Note: Report NO.:ATE20161015

Polarization: Horizontal

Power Source: DC 4.5V

Date: 16/05/28/ Time: 10/52/15 Engineer Signature: Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.3204	33.01	-18.88	14.13	40.00	-25.87	QP			
2	107.7854	32.60	-21.43	11.17	43.50	-32.33	QP			
3	200.7473	33.01	-18.68	14.33	43.50	-29.17	QP			





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Fax:+86-0755-26503396

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Job No.: Ricky 2016 #694 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

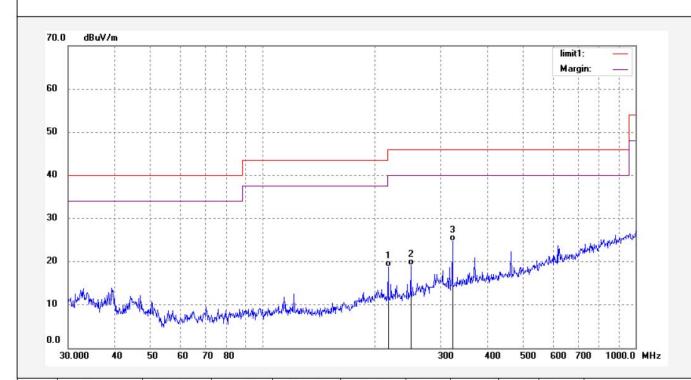
Standard: FCC Class B 3M Radiated Power Source: DC 4.5
Test item: Radiation Test Date: 16/05/28/
Temp.(C)/Hum.(%) 25 C / 55 %
Time: 10/51/29

EUT: Remote Handset Engineer Signature:

Mode: TX 2431.793833MHz

Distance: 3m

Model: JLDK.37.17.01 Manufacturer: OKIN



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	216.8803	37.24	-18.42	18.82	46.00	-27.18	QP			
2	249.6074	37.30	-18.17	19.13	46.00	-26.87	QP			
3	322.5896	40.48	-15.68	24.80	46.00	-21.20	QP			



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

Report No.: ATE20161015

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Job No.: Ricky 2016 #692 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

Test item: Radiation Test

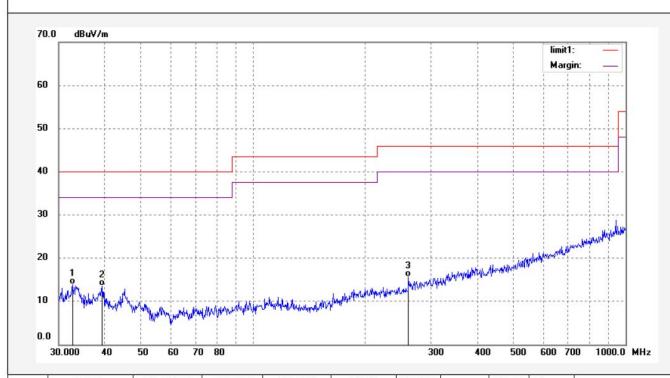
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset Mode: TX 2457.387561MHz

Model: JLDK.37.17.01 Manufacturer: OKIN

Note: Report NO.:ATE20161015

Date: 16/05/28/ Time: 10/49/43 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	32.6395	31.04	-17.17	13.87	40.00	-26.13	QP			
2	39.1825	32.50	-18.85	13.65	40.00	-26.35	QP			
3	261.2730	33.08	-17.50	15.58	46.00	-30.42	QP			





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

Report No.: ATE20161015

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Job No.: Ricky 2016 #693

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset

Mode: TX 2457.387561MHz

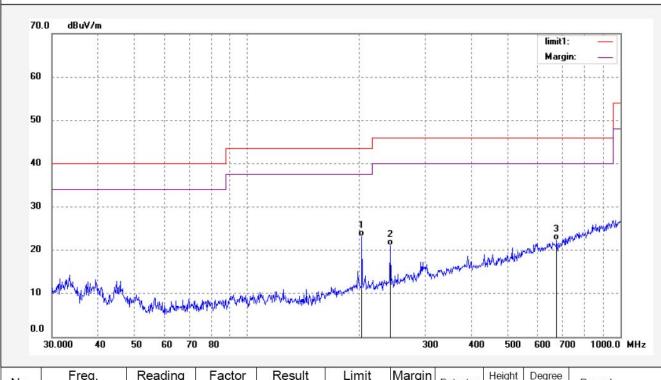
Model: JLDK.37.17.01 Manufacturer: OKIN

Note: Report NO.:ATE20161015

Polarization: Vertical
Power Source: DC 4.5V

Date: 16/05/28/ Time: 10/50/40 Engineer Signature:

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	202.8745	41.74	-18.60	23.14	43.50	-20.36	QP			
2	241.8377	39.27	-18.23	21.04	46.00	-24.96	QP			
3	674.6768	30.66	-8.41	22.25	46.00	-23.75	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Below 1GHz(Model: JLDK.37.18.01)



ACCURATE TECHNOLOGY CO., LTD.

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

Date: 16/05/31/

Job No.: Ricky 2016 #734 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

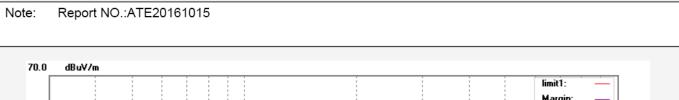
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %

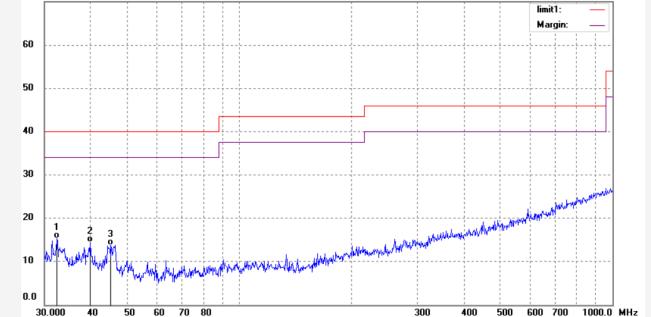
 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 10/16/37

 EUT: Remote Handset
 Engineer Signature:

 Mode: TX 2406.999080MHz
 Distance: 3m

Model: JLDK.37.18.01 Manufacturer: OKIN





No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4107	32.46	-17.14	15.32	40.00	-24.68	QP			
2	39.8768	33.47	-19.06	14.41	40.00	-25.59	QP			
3	45.2536	33.15	-19.45	13.70	40.00	-26.30	QP			



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Job No.: Ricky 2016 #735

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset

Mode: TX 2406.999080MHz

Model: JLDK.37.18.01 Manufacturer: OKIN

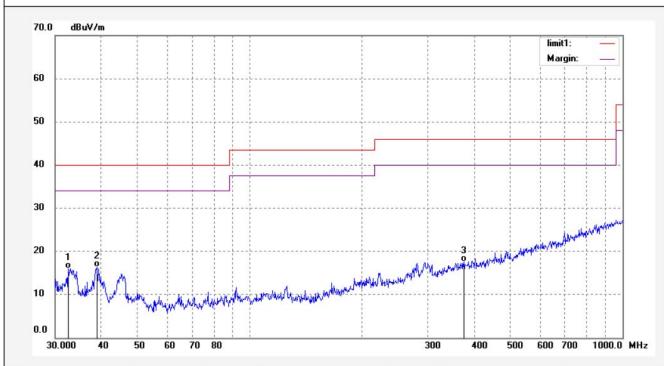
Note: Report NO.:ATE20161015

Polarization: Vertical

Power Source: DC 4.5V

Date: 16/05/31/ Time: 10/18/54 Engineer Signature:

Distance: 3m



No.	Freq.	Reading	Factor	Result		Margin	Detector	Height	Degree	Remark
2000000	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	0.511045.00041.0004	(cm)	(deg.)	6.1.102095.0.0000 P-6010.0P-001
1	32.5248	33.22	-17.15	16.07	40.00	-23.93	QP			
2	38.9080	35.19	-18.75	16.44	40.00	-23.56	QP			
3	375.2022	33.41	-15.82	17.59	46.00	-28.41	QP			



Site: 2# Chamber

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

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Job No.: Ricky 2016 #733

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset

Mode: TX 2431.793833MHz

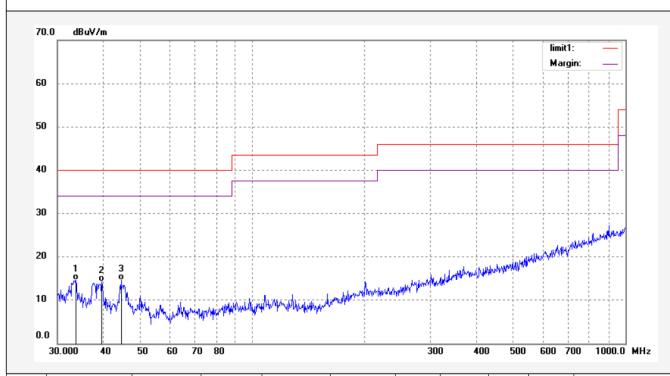
Model: JLDK.37.18.01 Manufacturer: OKIN

Note: Report NO.:ATE20161015

Polarization: Horizontal Power Source: DC 4.5V

Date: 16/05/31/ Time: 10/14/45

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	33.6880	31.96	-17.32	14.64	40.00	-25.36	QP			
2	39.4587	33.27	-18.93	14.34	40.00	-25.66	QP			
3	44.4656	33.94	-19.36	14.58	40.00	-25.42	QP			



Page 33 of 60 Site: 2# Chamber

Report No.: ATE20161015

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

Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: Ricky 2016 #732

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Manufacturer: OKIN

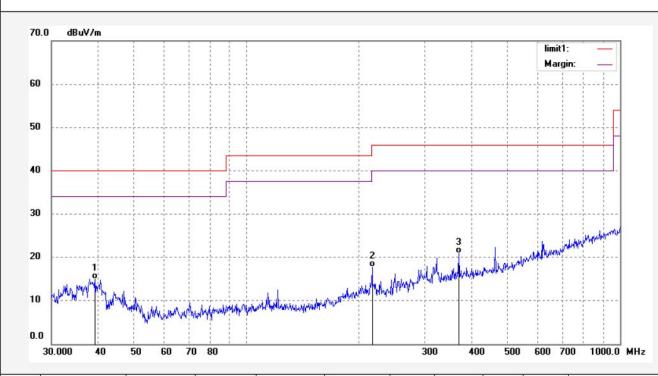
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset TX 2431.793833MHz Mode: Model: JLDK.37.18.01

Note: Report NO.:ATE20161015 Polarization: Vertical

Power Source: DC 4.5V

Date: 16/05/31/ Time: 10/13/22 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	39.3203	33.83	-18.88	14.95	40.00	-25.05	QP			
2	216.8803	37.78	-19.96	17.82	46.00	-28.18	QP			
3	369.9658	36.76	-15.86	20.90	46.00	-25.10	QP			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Report No.: ATE20161015 Page 34 of 60

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

Job No.: Ricky 2016 #730 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

Power Source: DC 4.5V Date: 16/05/31/

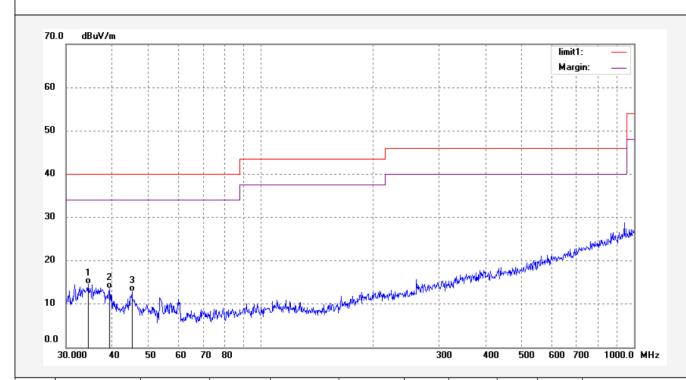
 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 10/09/33

 EUT: Remote Handset
 Engineer Signature:

 Mode: TX 2457.387561MHz
 Distance: 3m

Model: JLDK.37.18.01 Manufacturer: OKIN

Test item: Radiation Test



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	32.00	-17.42	14.58	40.00	-25.42	QP			
2	39.1824	32.50	-18.85	13.65	40.00	-26.35	QP			
3	45.0951	32.27	-19.41	12.86	40.00	-27.14	QP			



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Site: 2# Chamber

Report No.: ATE20161015

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

Job No.: Ricky 2016 #731

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset

Mode: TX 2457.387561MHz

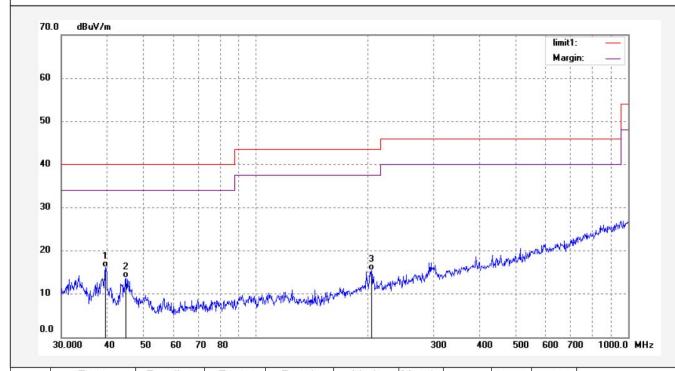
Model: JLDK.37.18.01 Manufacturer: OKIN

Note: Report NO.:ATE20161015

Polarization: Vertical

Power Source: DC 4.5V

Date: 16/05/31/ Time: 10/11/36 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	39.4587	35.04	-18.93	16.11	40.00	-23.89	QP			
2	44.7792	33.18	-19.37	13.81	40.00	-26.19	QP			
3	204.3052	35.55	-20.08	15.47	43.50	-28.03	QP			



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

Fax:+86-0755-26503396

Below 1GHz(Model: JLDK.37.18.02)



ACCURATE TECHNOLOGY CO., LTD.

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

Polarization: Horizontal
Power Source: DC 4.5V

Date: 16/05/31/ Time: 10/20/39 Engineer Signature: Distance: 3m

Job No.: Ricky 2016 #737

Standard: FCC Class B 3M Radiated

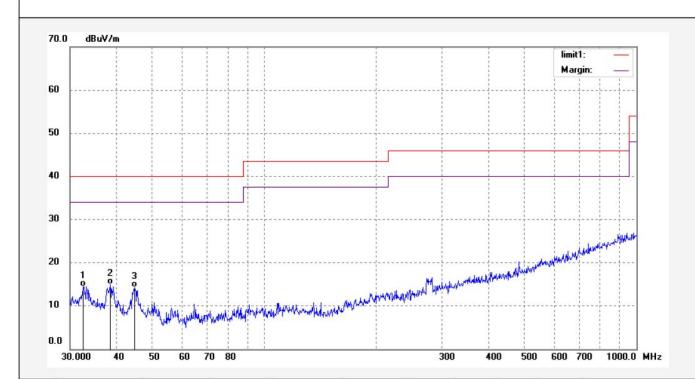
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset

Mode: TX 2406.999080MHz

Model: JLDK.37.18.02

Manufacturer: OKIN



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.5248	31.66	-17.15	14.51	40.00	-25.49	QP			
2	38.5001	33.68	-18.63	15.05	40.00	-24.95	QP			
3	44.7792	33.70	-19.37	14.33	40.00	-25.67	QP			



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

Report No.: ATE20161015

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

Job No.: Ricky 2016 #736 Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

Test item: Radiation Test

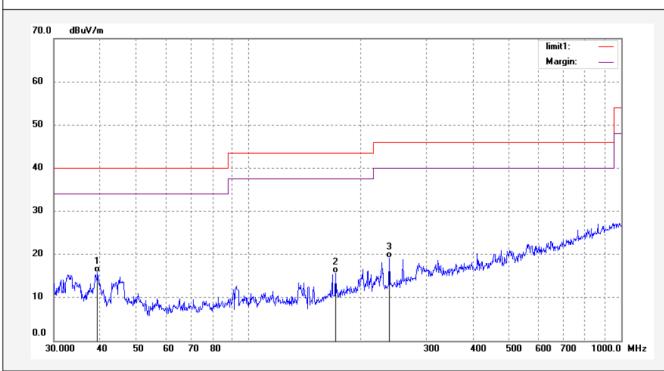
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset Mode: TX 2406.999080MHz Model: JLDK.37.18.02

Manufacturer: OKIN

Note: Report NO.:ATE20161015 Polarization: Vertical

Date: 16/05/31/ Time: 10/20/39 Engineer Signature: Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.3203	34.77	-18.88	15.89	40.00	-24.11	QP			
2	171.3890	37.67	-21.94	15.73	43.50	-27.77	QP			
3	238.4626	38.98	-19.82	19.16	46.00	-26.84	QP			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Page 38 of 60
Site: 2# Chamber

Report No.: ATE20161015

Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: Ricky 2016 #738 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

Date: 16/05/31/ Time: 10/20/39

Engineer Signature:
Distance: 3m

Temp.(C)/Hum.(%) 25 C / 55 %

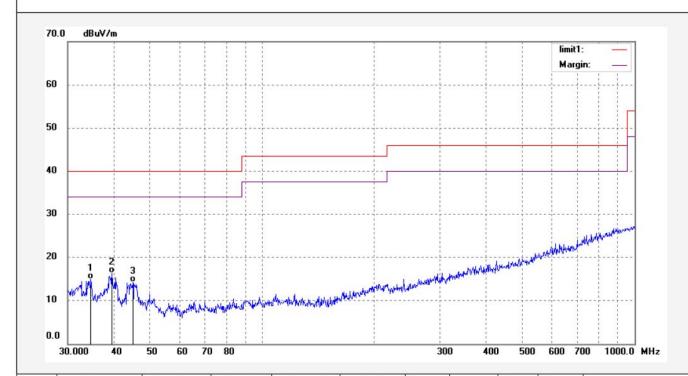
Test item: Radiation Test

Manufacturer: OKIN

EUT: Remote Handset

Mode: TX 2431.793833MHz

Model: JLDK.37.18.02



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.6484	32.40	-17.45	14.95	40.00	-25.05	QP			
2	39.4587	35.22	-18.93	16.29	40.00	-23.71	QP			
3	44.9369	33.65	-19.39	14.26	40.00	-25.74	QP			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Page 39 of 60
Site: 2# Chamber

Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20161015

Job No.: Ricky 2016 #739 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

Standard: FCC Class B 3M Radiated Power Source: DC 4.5

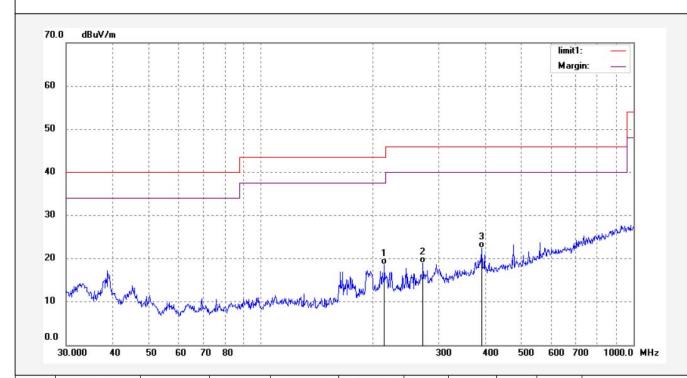
Test item: Radiation Test Date: 16/05/31/

 Temp.(C)/Hum.(%) 25 C / 55 %
 Time: 10/20/39

 EUT: Remote Handset
 Engineer Signature:

 Mode: TX 2431.793833MHz
 Distance: 3m

Model: JLDK.37.18.02 Manufacturer: OKIN



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	214.6063	38.63	-19.97	18.66	43.50	-24.84	QP			
2	272.5246	37.57	-18.62	18.95	46.00	-27.05	QP			
3	391.3599	38.27	-15.72	22.55	46.00	-23.45	QP			



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Report No.: ATE20161015

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Job No.: Ricky 2016 #741 Standard: FCC Class B 3M Radiated Power Source: DC 4.5V

Test item: Radiation Test

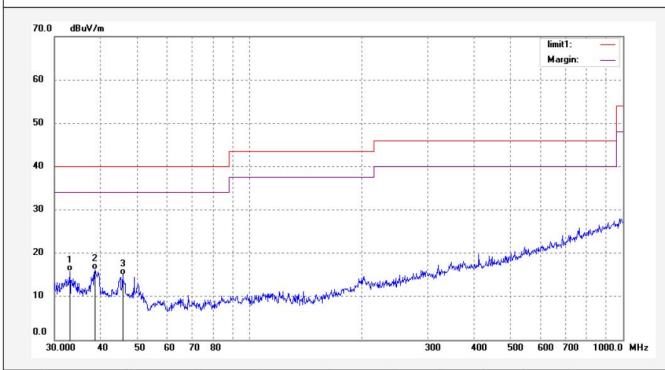
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Remote Handset TX 2457.387561MHz Mode: Model: JLDK.37.18.02

Manufacturer: OKIN

Note: Report NO.:ATE20161015 Horizontal

Date: 16/05/31/ Time: 10/20/39 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	32.9853	33.12	-17.22	15.90	40.00	-24.10	QP			
2	38.5001	34.76	-18.63	16.13	40.00	-23.87	QP	0		
3	45.7331	34.63	-19.58	15.05	40.00	-24.95	QP			