

<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>50063612 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>164077661</b>	Seite 1 von 22 Page 1 of 22
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	<b>334006</b>	<b>Auftragsdatum:</b> <i>Order date:</i>	<b>02.11.2016</b>	
<b>Auftraggeber:</b> <i>Client:</i>	<b>Primax Electronics Ltd., No. 669, Ruey Kuang Rd., Neihu, Taipei 114, Taiwan, R.O.C.</b>			
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>Lenovo Essential Wireless Keyboard</b>			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	<b>KBRFBU71</b>			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	<b>FCC &amp; IC approval</b>			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	<b>CFR47 FCC Part 15: Subpart C Section 15.249 RSS-210 Issue 9 August 2016 RSS-Gen Issue 4 November 2014</b>			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	<b>01.11.2016</b>	Refer to photo document		
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	<b>A000449456-001, A000449456-002</b>			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	<b>09.11.2016 - 25.11.2016</b>			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	<b>Accurate Technology Co., Ltd.</b>			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	<b>TÜV Rheinland (Shenzhen) Co., Ltd.</b>			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
<b>25.11.2016</b>	<b>Sam Lin / Assistant Manager</b>	<b>25.11.2016</b>	<b>Winnie Hou / Technical Certifier</b>	
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>
				<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>		This report is for DXX equipment class.		
FCC ID: EMJKKBRFBU71				
IC: 4251A-KKBRFBU71				
HVIN: KBRFBU71				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged</i>		
<b>* Legende:</b>	<b>1 = sehr gut</b>	<b>2 = gut</b>	<b>3 = befriedigend</b>	<b>4 = ausreichend</b>
	<b>P(ass) = entspricht o.g. Prüfgrundlage(n)</b>	<b>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</b>	<b>N/A = nicht anwendbar</b>	<b>N/T = nicht getestet</b>
<b>Legend:</b>	<b>1 = very good</b>	<b>2 = good</b>	<b>3 = satisfactory</b>	<b>4 = sufficient</b>
	<b>P(ass) = passed a.m. test specification(s)</b>	<b>F(ail) = failed a.m. test specification(s)</b>	<b>N/A = not applicable</b>	<b>N/T = not tested</b>
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

v04

**Prüfbericht - Nr.: 50063612 001**  
*Test Report No.*

**Seite 2 von 22**  
*Page 2 of 22*

## TEST SUMMARY

### **5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

### **5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS**

*RESULT: Pass*

### **5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH**

*RESULT: Pass*

### **5.1.4 OUT-OF-BAND EMISSIONS**

*RESULT: Pass*

## CONTENTS

<b>1.</b>	<b>GENERAL REMARKS .....</b>	<b>4</b>
<b>1.1</b>	<b>COMPLEMENTARY MATERIALS .....</b>	<b>4</b>
<b>2.</b>	<b>TEST SITES .....</b>	<b>4</b>
<b>2.1</b>	<b>TEST FACILITIES .....</b>	<b>4</b>
<b>2.2</b>	<b>LIST OF TEST AND MEASUREMENT INSTRUMENTS.....</b>	<b>5</b>
<b>2.3</b>	<b>TRACEABILITY .....</b>	<b>6</b>
<b>2.4</b>	<b>CALIBRATION .....</b>	<b>6</b>
<b>2.5</b>	<b>MEASUREMENT UNCERTAINTY.....</b>	<b>6</b>
<b>2.6</b>	<b>LOCATION OF ORIGINAL DATA.....</b>	<b>6</b>
<b>2.7</b>	<b>STATUS OF FACILITY USED FOR TESTING.....</b>	<b>6</b>
<b>3.</b>	<b>GENERAL PRODUCT INFORMATION .....</b>	<b>7</b>
<b>3.1</b>	<b>PRODUCT FUNCTION AND INTENDED USE.....</b>	<b>7</b>
<b>3.2</b>	<b>RATINGS AND SYSTEM DETAILS .....</b>	<b>7</b>
<b>3.3</b>	<b>INDEPENDENT OPERATION MODES .....</b>	<b>8</b>
<b>3.4</b>	<b>NOISE GENERATING AND NOISE SUPPRESSING PARTS .....</b>	<b>9</b>
<b>3.5</b>	<b>SUBMITTED DOCUMENTS .....</b>	<b>9</b>
<b>4.</b>	<b>TEST SET-UP AND OPERATION MODES .....</b>	<b>9</b>
<b>4.1</b>	<b>PRINCIPLE OF CONFIGURATION SELECTION.....</b>	<b>9</b>
<b>4.2</b>	<b>TEST OPERATION AND TEST SOFTWARE .....</b>	<b>9</b>
<b>4.3</b>	<b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT .....</b>	<b>10</b>
<b>4.4</b>	<b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....</b>	<b>10</b>
<b>4.5</b>	<b>TEST SETUP DIAGRAM .....</b>	<b>11</b>
<b>5.</b>	<b>TEST RESULTS .....</b>	<b>13</b>
<b>5.1</b>	<b>TRANSMITTER REQUIREMENT &amp; TEST SUITES .....</b>	<b>13</b>
<b>5.1.1</b>	<i>Antenna Requirement .....</i>	<b>13</b>
<b>5.1.2</b>	<i>Field strength of fundamental and harmonics.....</i>	<b>14</b>
<b>5.1.3</b>	<i>20dB Bandwidth and 99% Bandwidth.....</i>	<b>16</b>
<b>5.1.4</b>	<i>Out-of-band emissions.....</i>	<b>19</b>
<b>6.</b>	<b>PHOTOGRAPHS OF THE TEST SET-UP .....</b>	<b>20</b>
<b>7.</b>	<b>LIST OF TABLES .....</b>	<b>22</b>
<b>8.</b>	<b>LIST OF PHOTOGRAPHS .....</b>	<b>22</b>

## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 2.4 GHz Wireless mode

## 2. Test Sites

### 2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051 & IC Registration Number: 5077A-2)

F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park,  
Nanshan District, Shenzhen, 518057, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

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

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
<b>Radio Spectrum Test</b>				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	Jan. 09, 2017
<b>Radiated emissions</b>				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	Jan. 09, 2017
Test Receiver	Rohde& Schwarz	ESCS30	100307	Jul. 09, 2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.14, 2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 14, 2017
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan. 09, 2017
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 09, 2017

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table,

Items		Extended Uncertainty
CE	Disturbance Voltage (dBuV)	U=1.94dB, k=2, $\sigma=95\%$
RE (9kHz-30MHz)	Field strength (dBuV/m)	U=3.08dB, k=2, $\sigma=95\%$
RE (30-1000MHz)	Field strength (dBuV/m)	U=4.42dB, k=2, $\sigma=95\%$
RE (above 1000MHz)	Field strength (dBuV/m)	U=4.06dB, k=2, $\sigma=95\%$

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Accurate Technology Co., Ltd. facility located at F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen, 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is Lenovo 2.4GHz wireless keyboard.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 2: Technical Specification of EUT**

<b>Technical Specification</b>	<b>Value</b>
Kind of Equipment:	Lenovo Essential Wireless Keyboard
Type Designation:	KBRFBU71
FCC ID:	EMJKKBRFBU71
IC:	4251A-KKBRFBU71
HVIN:	KBRFBU71
Type of Equipment:	Class B digital equipment
Equipment Class:	DXX
Wireless Technology:	2.4 GHz Wireless
Rated output power:	0 dBm
Operating Frequency Range:	2402-2479 MHz for 2.4 GHz Wireless
Channel Number:	78 channels for 2.4 GHz Wireless
Channel Separation:	1 MHz for 2.4 GHz Wireless
Type of Modulation:	GFSK
Operating Voltage:	DC 3V via AA ALKALINE battery
Operating Temperature Range:	0°C to 40°C
Antenna Type:	Printed PCB Antenna for 2.4 GHz
Smart Antenna Systems:	Not Applicable
Number of Antenna:	1
Antenna Gain:	Max. -4.47dBi

**Table 3: List of Radio Frequency Channel, 2.4 GHz Wireless**

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00
12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00
14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	--	--
16	2418.00	37	2439.00	58	2460.00	--	--
17	2419.00	38	2440.00	59	2461.00	--	--
18	2420.00	39	2441.00	60	2462.00	--	--
19	2421.00	40	2442.00	61	2463.00	--	--
20	2422.00	41	2443.00	62	2464.00	--	--

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. 2.4GHz Wireless operating
  - 1. Transmitting
    - a. Low channel
    - b. Middle channel
    - c. High channel
  - 2. Receiving
    - a. Low channel
    - b. Middle channel
    - c. High channel
- B. Standby
- C. Off



### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- Bill of Material	- Circuit Diagram
- PCB Layout	- Instruction Manual
- Photo Document	- Rating Label

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.

**Table 4: List of Frequencies under Test, 2.4 GHz Wireless operation**

RF channel of 2.4 GHz Wireless			
Test Channel	Channel Number	Frequency (MHz)	Remark
Low	0	2402.00	Max. output power level
Middle	39	2441.00	Max. output power level
High	77	2479.00	Max. output power level

## 4.3 Special Accessories and Auxiliary Equipment

**Table 5: List of Accessories and Auxiliary Equipment**

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	ThinkPad X240	PD-01UAM3	Input: DC 20V, 3.25A
Printer	HP	HP Laserjet 1015	CNFG030424	--
2.4 GHz USB Dongle	Lenovo	MORFFHL-D	--	Input: DC 5V

## 4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

### 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test below 1 GHz

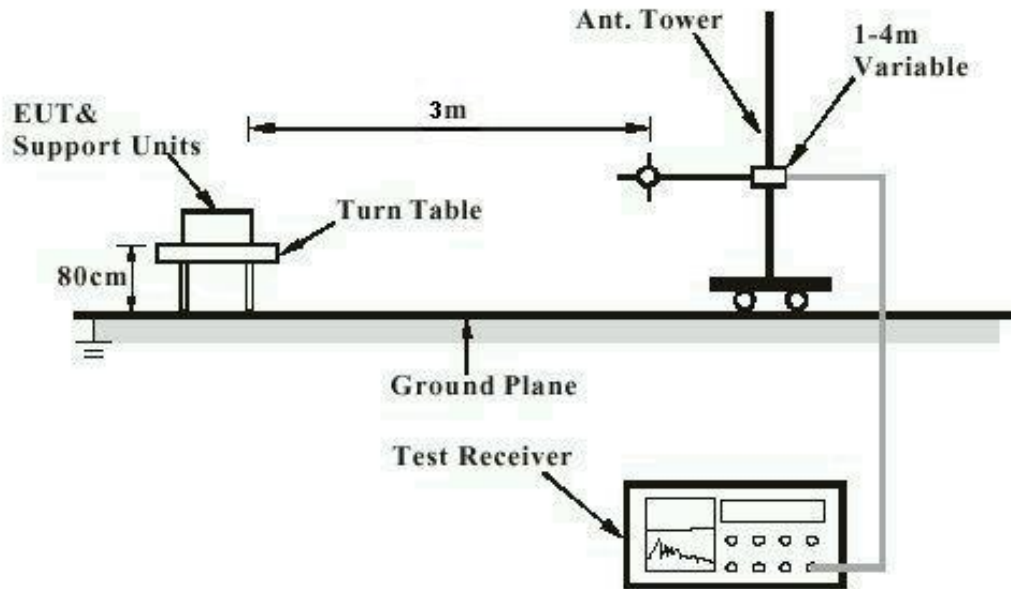


Diagram of Measurement Configuration for Radiation Test above 1 GHz

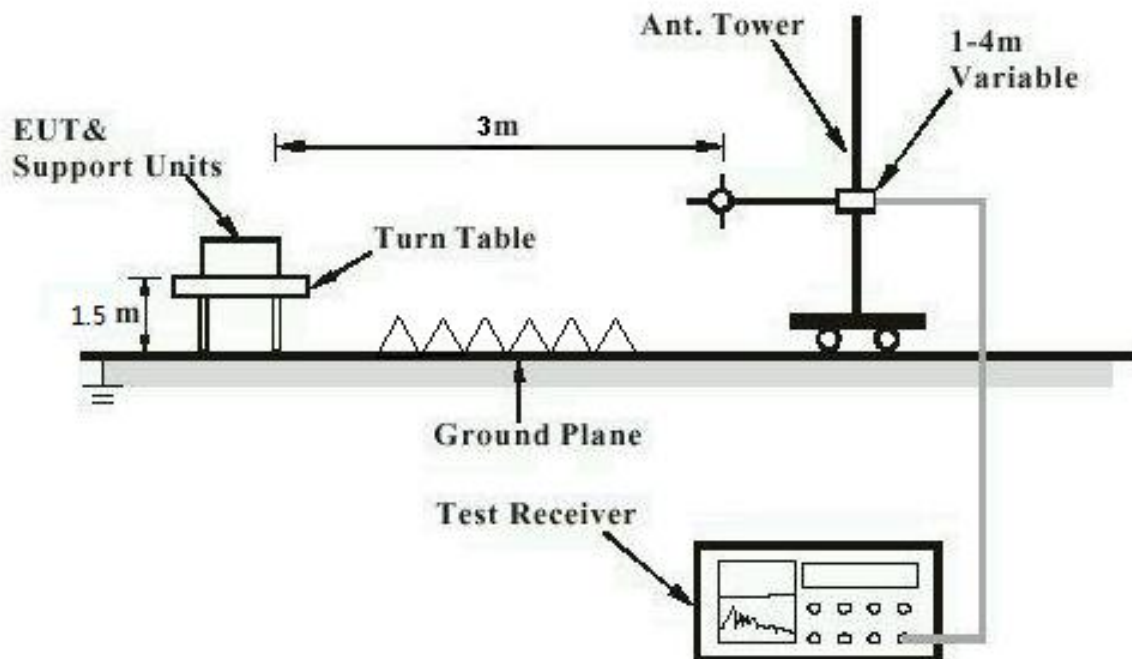


Diagram of Measurement Equipment Configuration for Conduction Measurement

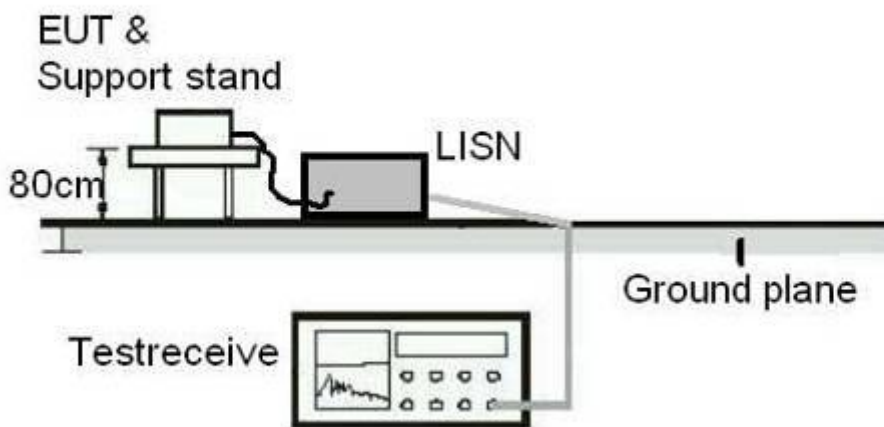
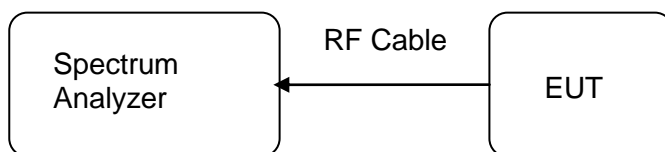


Diagram of Measurement Equipment Configuration for Transmitter Measurement



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Pass**

Test date : 2016-11-10 to 2016-11-25  
Test standard : Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -4.47 dBi for 2.4 GHz, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to compliance the provision.

Refer to EUT photo for details.



**Produkte**  
Products

**Prüfbericht - Nr.: 50063612 001**  
Test Report No.

**Seite 15 von 22**  
Page 15 of 22

	4985	50.62	114	Peak	Vertical	Pass
		42.35	94	Average		
2479	80.83	114	Peak			
	79.33	94	Average			
4985	47.53	114	Peak			
	39.41	94	Average			

### 5.1.3 20dB Bandwidth and 99% Bandwidth

**RESULT:**
**Pass**

Date of testing : 2016-11-10 to 2016-11-25  
 Test standard : FCC part 15.215  
                   : Clause 6.6 of RSS-Gen  
 Basic standard : ANSI C63.10:2013  
 Kind of test site : Shielded room

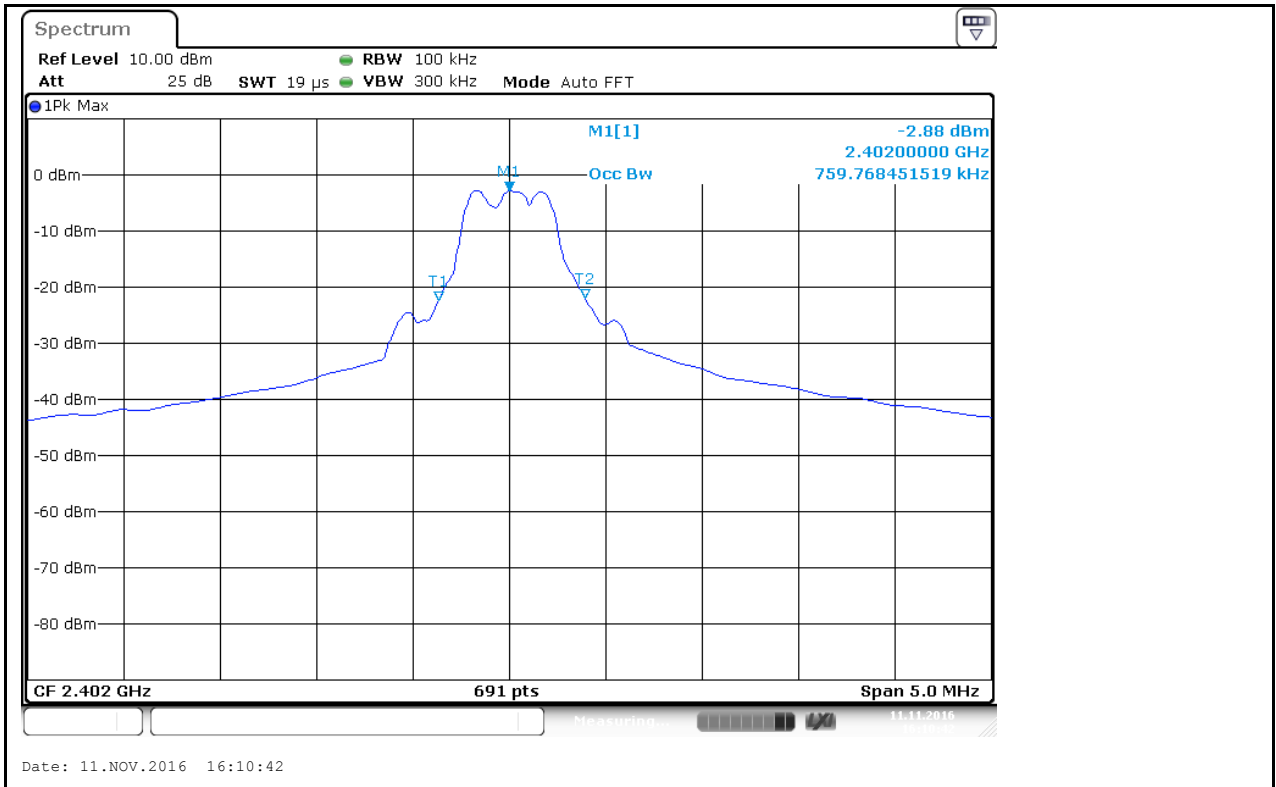
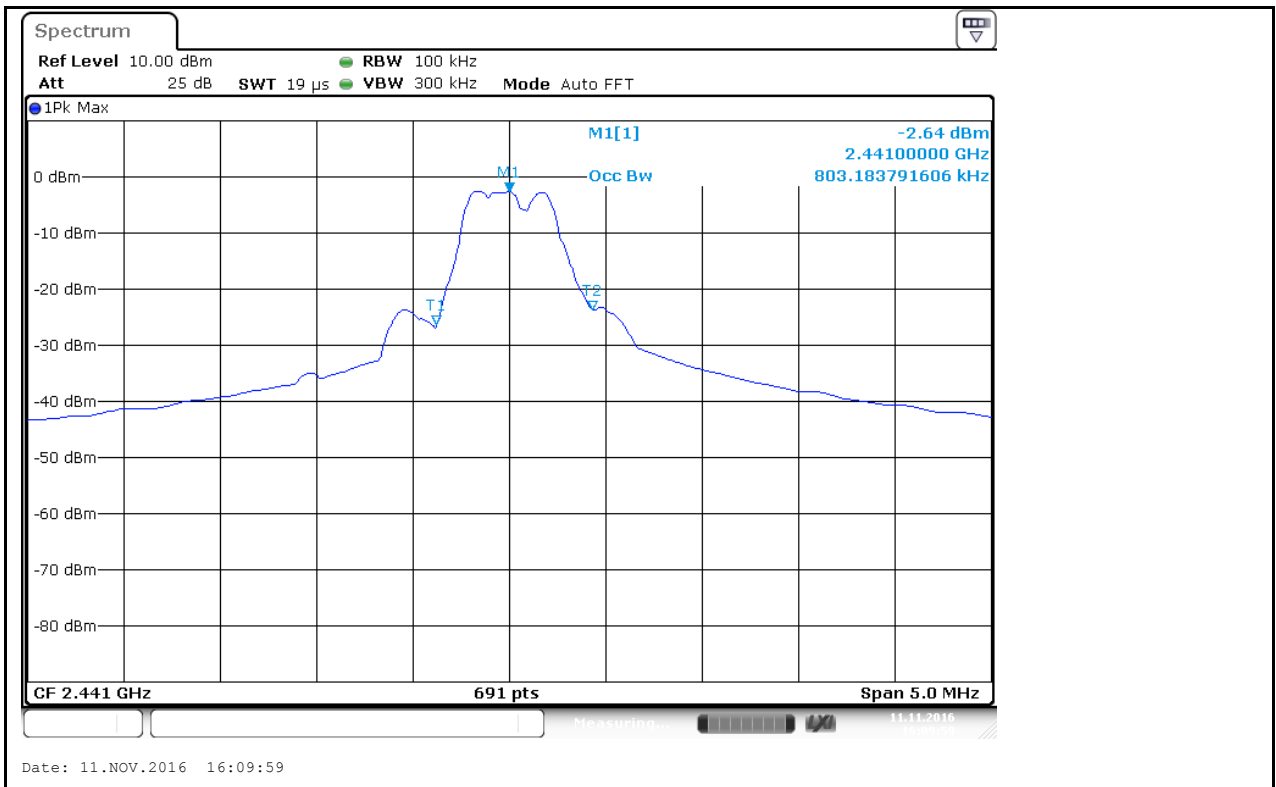
**Test setup**

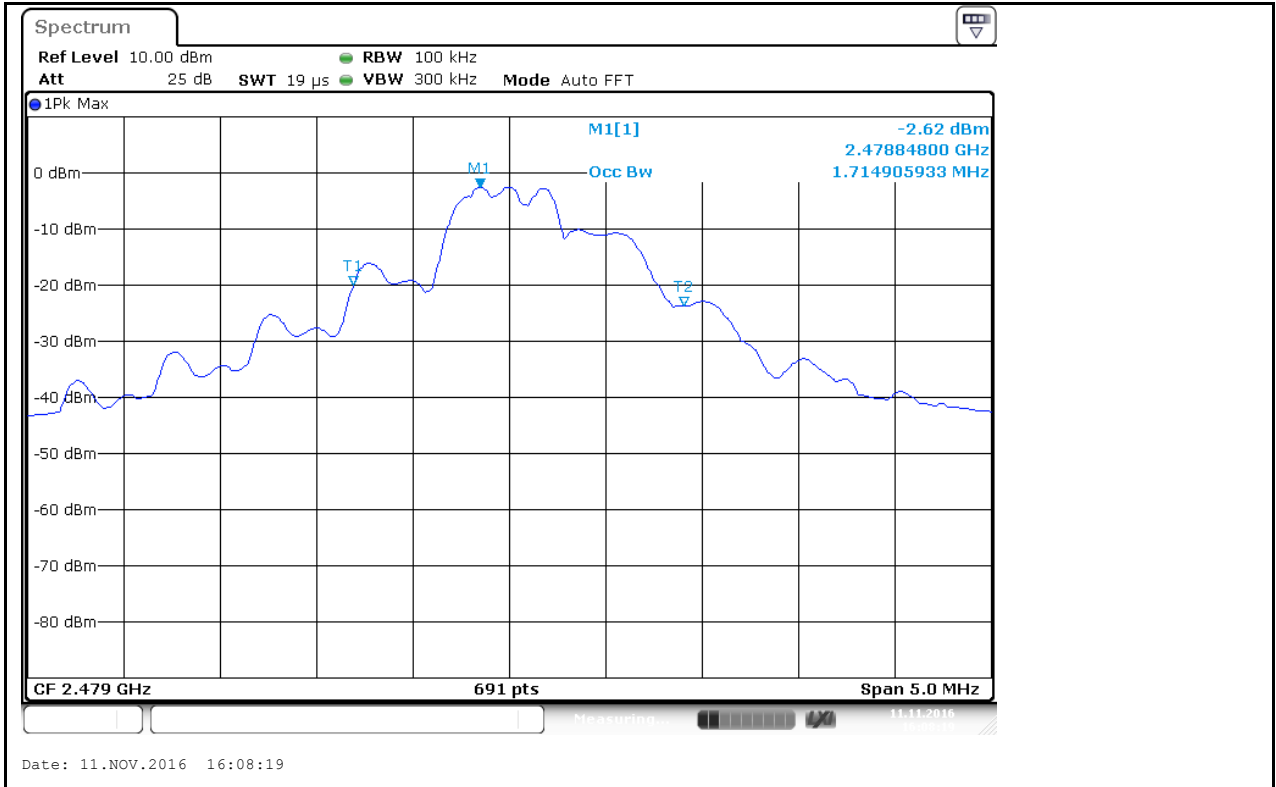
Test Channel : Low/ Middle/ High  
 Operation mode : A.1  
 Ambient temperature : 23°C  
 Relative humidity : 48%  
 Atmospheric pressure : 101.0 kPa

**Table 7: Test result of 20dB Bandwidth and 99% Bandwidth, 2.4 GHz Wireless operation**

2.4 GHz Wireless				
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Verdict
Low Channel	2402	842.2	759.77	Pass
Mid Channel	2439	790.2	803.18	Pass
High Channel	2479	1550.0	1714.91	Pass



**Test Graph of 99% Bandwidth, 2.4 GHz Wireless mode**  
**Low Channel**

**Middle Channel**


**High Channel**


## 5.1.4 Out-of-band emissions

**RESULT:****Pass**

Date of testing : 2016-11-10 to 2016-11-25  
Test standard : FCC part 15.249(d)  
Annex B.10 (b) of RSS-210  
Basic standard : ANSI C63.10:2013  
Limits : Refer to 15.249(d)  
Annex B.10 (b) of RSS-210  
Kind of test site : 3m Semi-Anechoic Chamber

**Test setup**

Test Channel : Low/ Middle/ High  
Operation mode : A.1  
Ambient temperature : 23°C  
Relative humidity : 48%  
Atmospheric pressure : 101.0 kPa

Refer to attached Appendix A for details.

## 7. List of Tables

Table 1: List of Test and Measurement Equipment .....	5
Table 2: Technical Specification of EUT .....	7
Table 3: List of Radio Frequency Channel, 2.4 GHz Wireless .....	8
Table 4: List of Frequencies under Test, 2.4 GHz Wireless operation .....	9
Table 5: List of Accessories and Auxiliary Equipment .....	10
Table 6: Test result of Field strength of fundamental and harmonics, 2.4 GHz Wireless operation .....	14
Table 7: Test result of 20dB Bandwidth and 99% Bandwidth, 2.4 GHz Wireless operation .....	16

## 8. List of Photographs

Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz) .....	20
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz) .....	20
Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz) .....	21
Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz) .....	21

# Appendix A

## Test Results of 2.4 GHz Wireless Mode

<b>APPENDIX A.1: SPURIOUS EMISSIONS OF 2.4 GHZ WIRELESS OPERATION .....</b>	<b>2</b>
<i>Low Channel.....</i>	<i>2</i>
<i>Middle Channel.....</i>	<i>11</i>
<i>High Channel.....</i>	<i>20</i>
<b>APPENDIX A.2: RADIATED EMISSIONS IN RESTRICTED BANDS - 2.4 GHZ WIRELESS OPERATION .....</b>	<b>29</b>
<i>Low Channel.....</i>	<i>29</i>
<i>High Channel.....</i>	<i>31</i>

**Appendix A.1: Spurious Emissions of 2.4 GHz Wireless operation**  
Low Channel

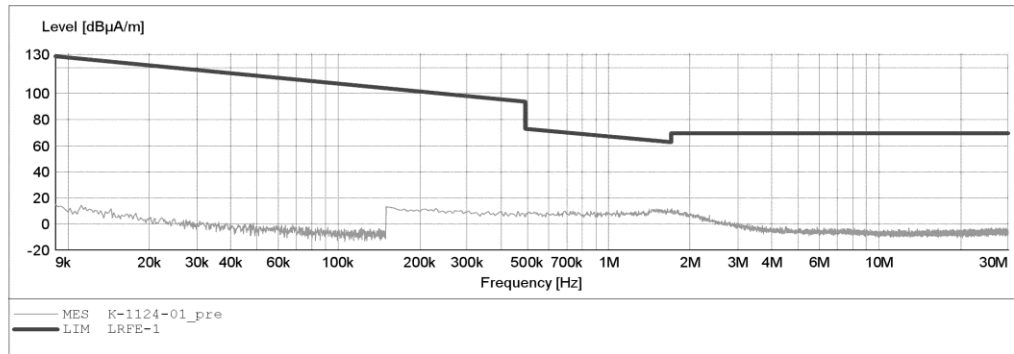
*ACCURATE TECHNOLOGY CO.,LTD*

*FCC Class B 3M Radiated*

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2402MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: X  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Start	Stop	Step	_SUB_STD_VTERM2	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	1.70	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz		QuasiPeak	1.0 s	9 kHz	1516M



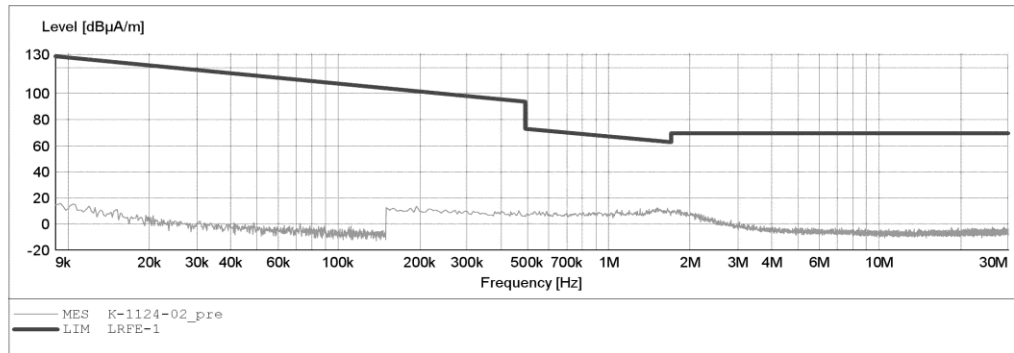
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2402MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: Y  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



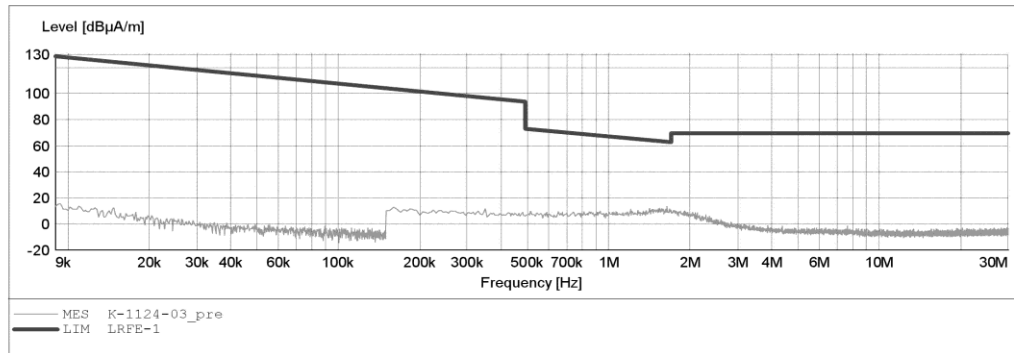
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2402MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: Z  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M







**ACCURATE TECHNOLOGY CO., LTD.**

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

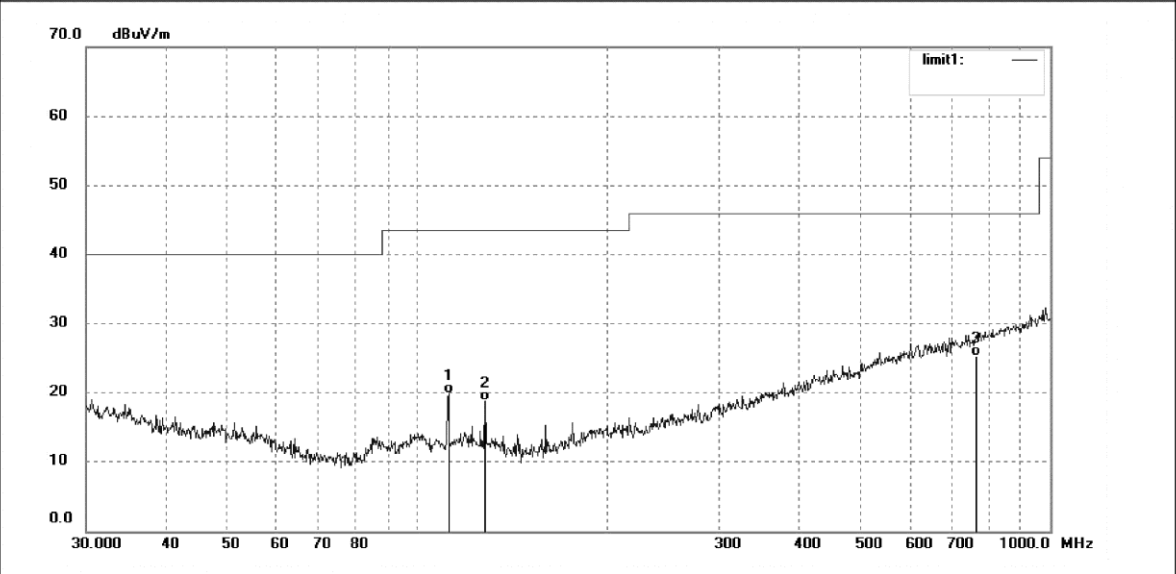
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1478	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	33.42	-13.50	19.92	43.50	-23.58	QP			
2	128.1128	32.46	-13.71	18.75	43.50	-24.75	QP			
3	763.3757	25.34	-0.05	25.29	46.00	-20.71	QP			



**ACCURATE TECHNOLOGY CO., LTD.**

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

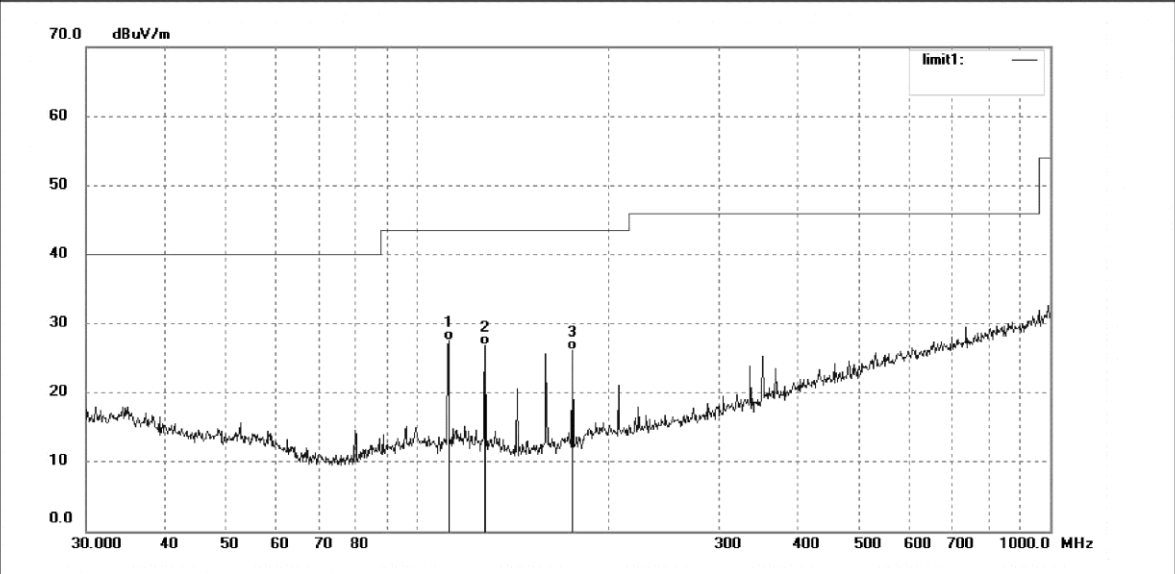
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1479	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	41.00	-13.50	27.50	43.50	-16.00	QP			
2	128.1127	40.65	-13.71	26.94	43.50	-16.56	QP			
3	176.2684	39.60	-13.44	26.16	43.50	-17.34	QP			



**ACCURATE TECHNOLOGY CO., LTD.**

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

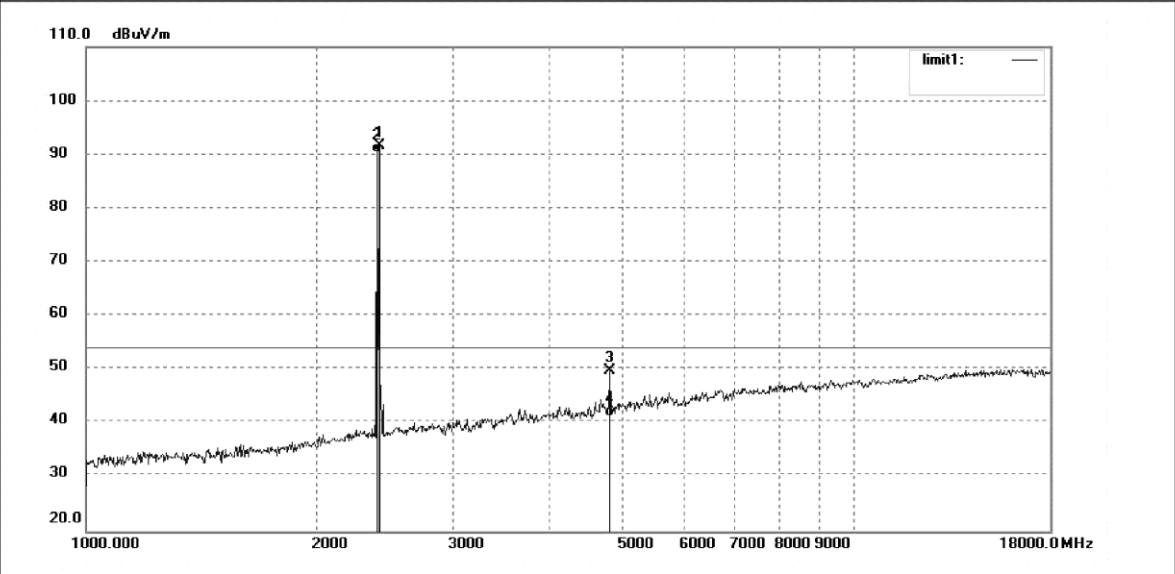
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1484	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	93.29	-1.61	91.68	114.00	-22.32	peak			
2	2402.000	91.99	-1.61	90.38	94.00	-3.62	AVG			
3	4804.021	44.97	4.90	49.87	74.00	-24.13	peak			
4	4804.021	36.45	4.90	41.35	54.00	-12.65	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

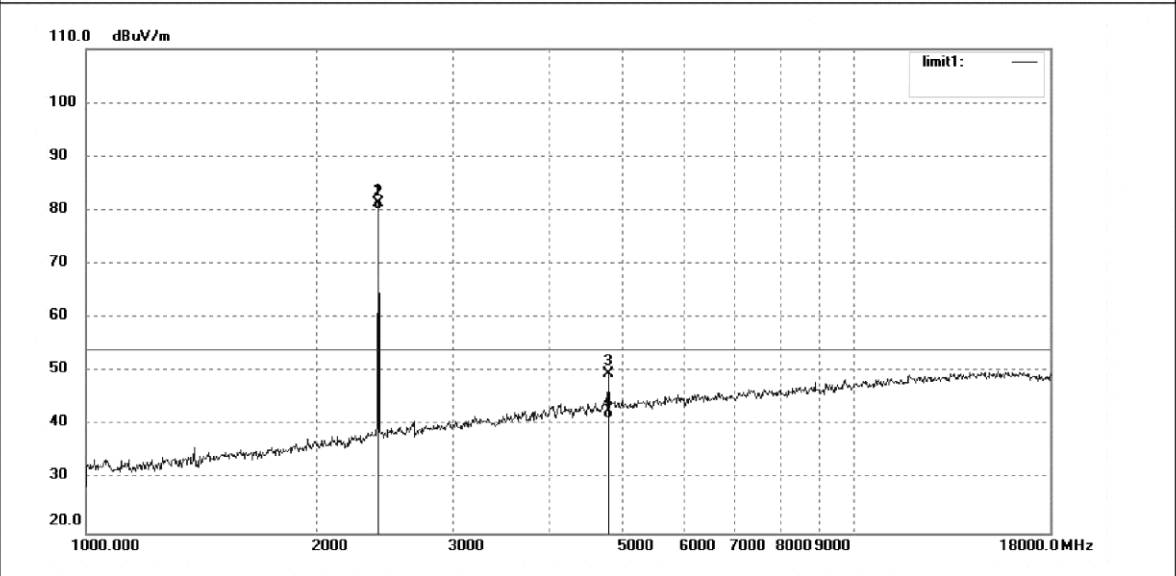
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1485	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	82.99	-1.61	81.38	114.00	-32.62	peak			
2	2402.000	81.69	-1.61	80.08	94.00	-13.92	AVG			
3	4804.025	44.58	4.90	49.48	74.00	-24.52	peak			
4	4804.025	36.45	4.90	41.35	54.00	-12.65	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

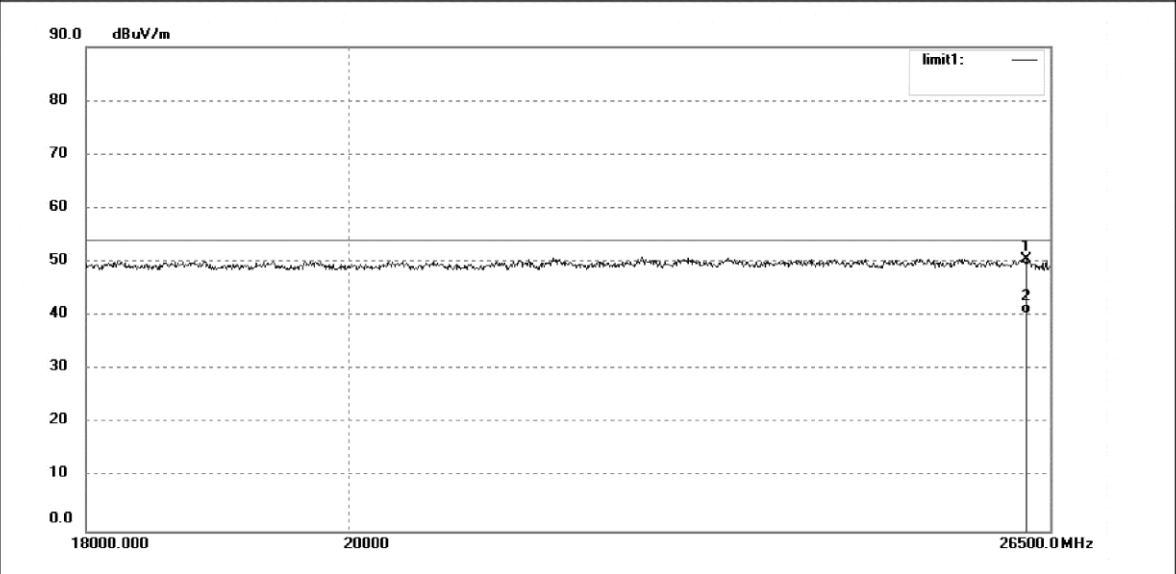
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1494	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26244.998	9.50	40.94	50.44	74.00	-23.56	peak			
2	26244.998	-0.56	40.94	40.38	54.00	-13.62	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

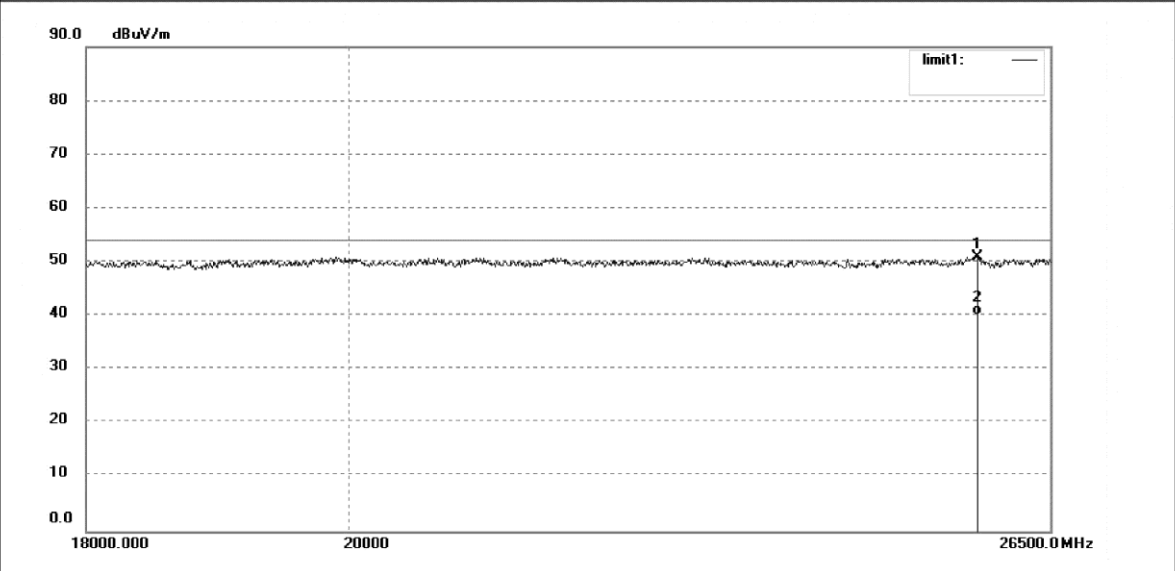
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1495	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25732.376	10.78	40.11	50.89	74.00	-23.11	peak			
2	25732.376	0.00	40.11	40.11	54.00	-13.89	AVG			

**Middle Channel**

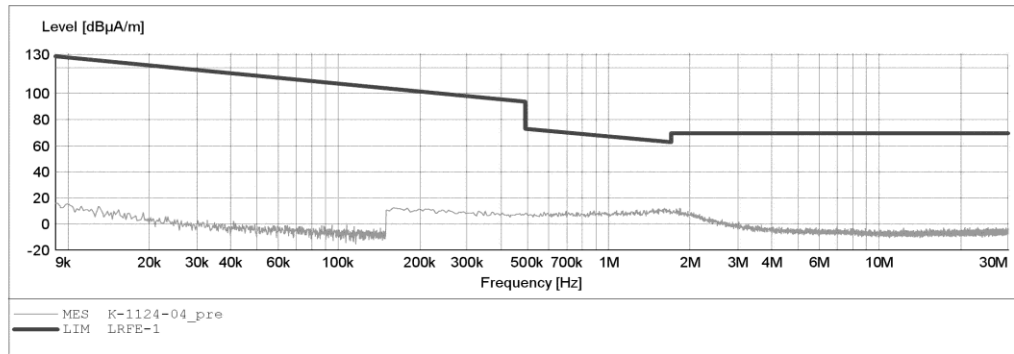
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3M Radiated**

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2441MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: X  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



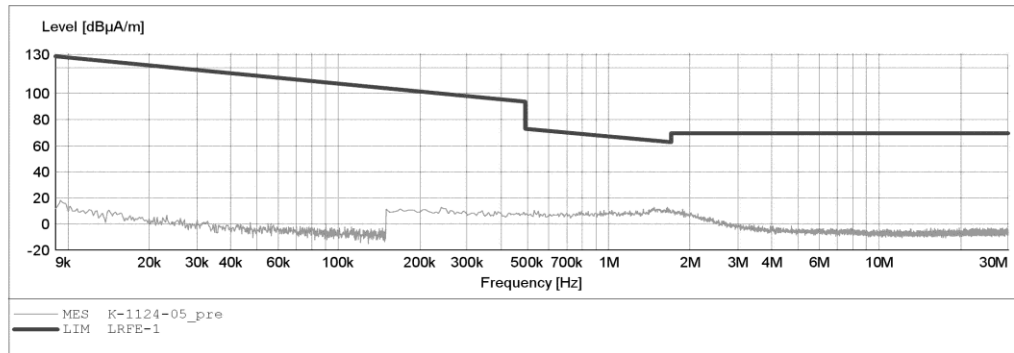
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2441MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: Y  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M





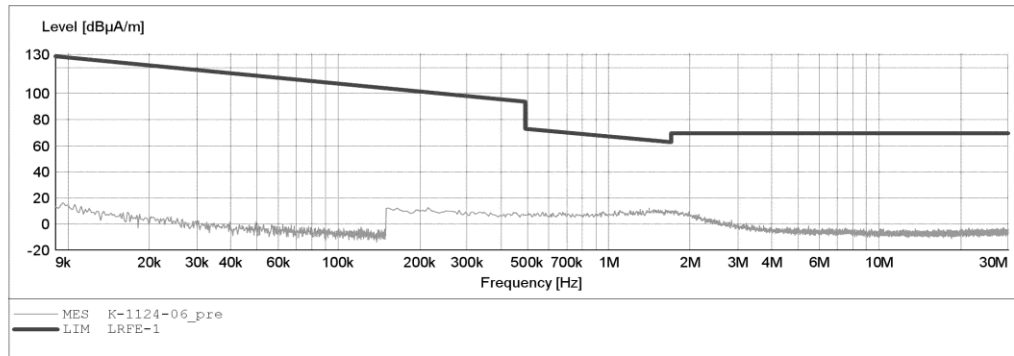
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2441MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: Z  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M





**ACCURATE TECHNOLOGY CO., LTD.**

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

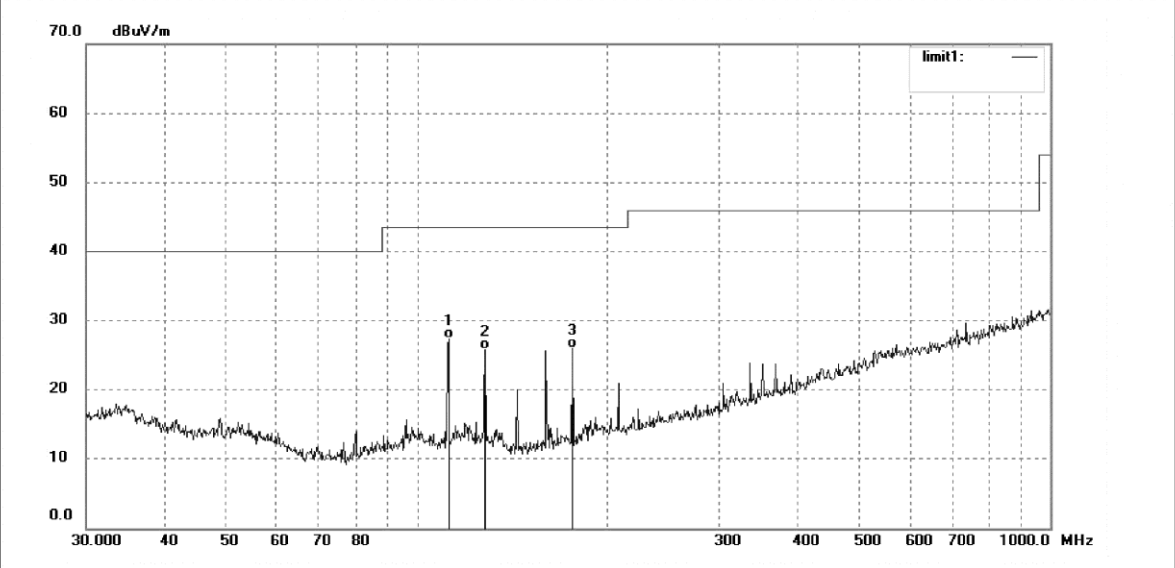
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1480	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	40.89	-13.50	27.39	43.50	-16.11	QP			
2	128.1127	39.58	-13.71	25.87	43.50	-17.63	QP			
3	176.2684	39.39	-13.44	25.95	43.50	-17.55	QP			



**ACCURATE TECHNOLOGY CO., LTD.**

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

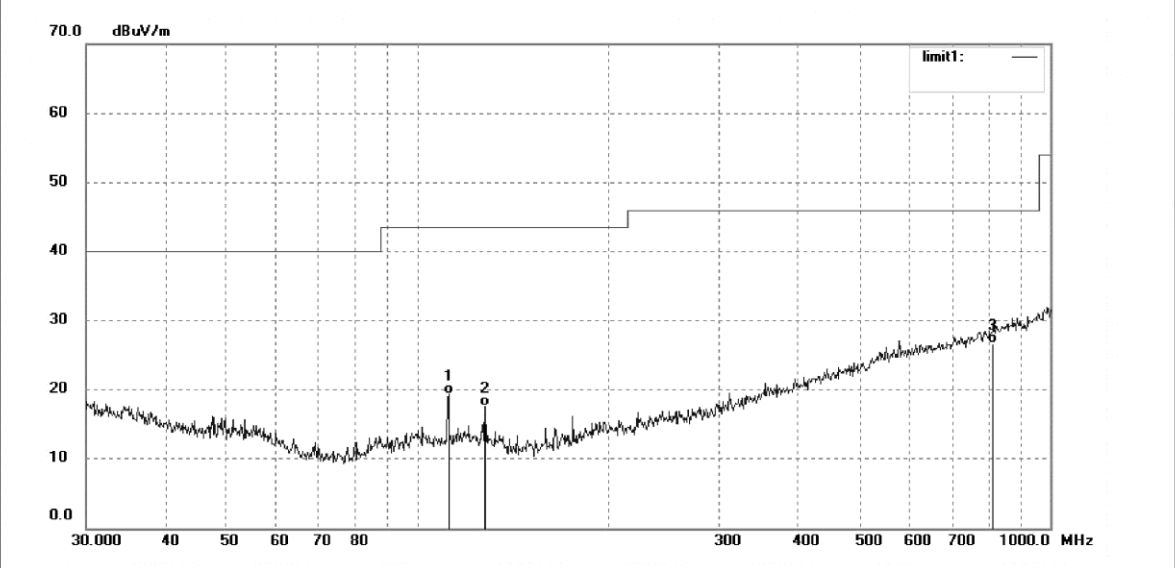
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1481	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	32.83	-13.50	19.33	43.50	-24.17	QP			
2	128.1127	31.34	-13.71	17.63	43.50	-25.87	QP			
3	813.1114	25.61	1.04	26.65	46.00	-19.35	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.: lenovo #1488

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2441MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

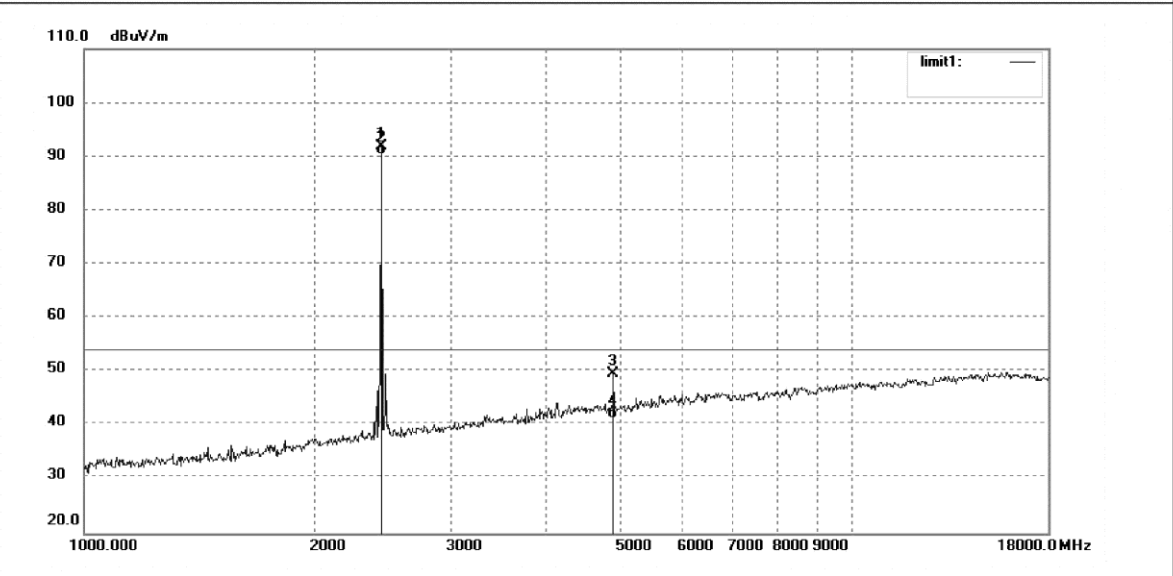
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

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	2441.000	93.27	-1.44	91.83	114.00	-22.17	peak			
2	2441.000	91.77	-1.44	90.33	94.00	-3.67	AVG			
3	4882.028	43.89	5.61	49.50	74.00	-24.50	peak			
4	4882.028	35.73	5.61	41.34	54.00	-12.66	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

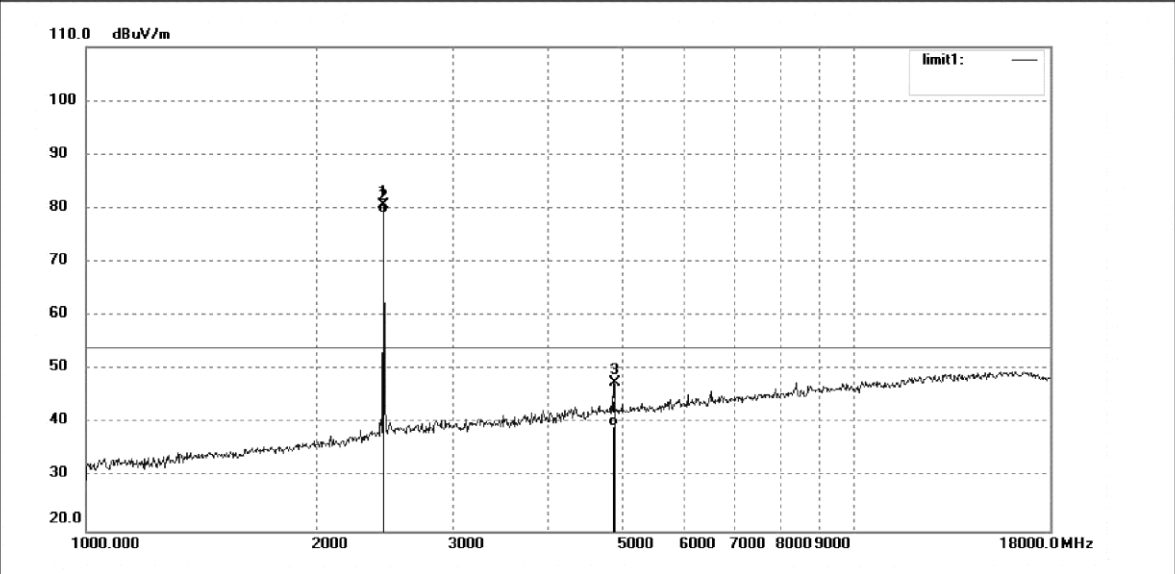
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1489	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	82.09	-1.44	80.65	114.00	-33.35	peak			
2	2441.000	80.59	-1.44	79.15	94.00	-14.85	AVG			
3	4882.024	41.92	5.61	47.53	74.00	-26.47	peak			
4	4882.024	33.93	5.61	39.54	54.00	-14.46	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

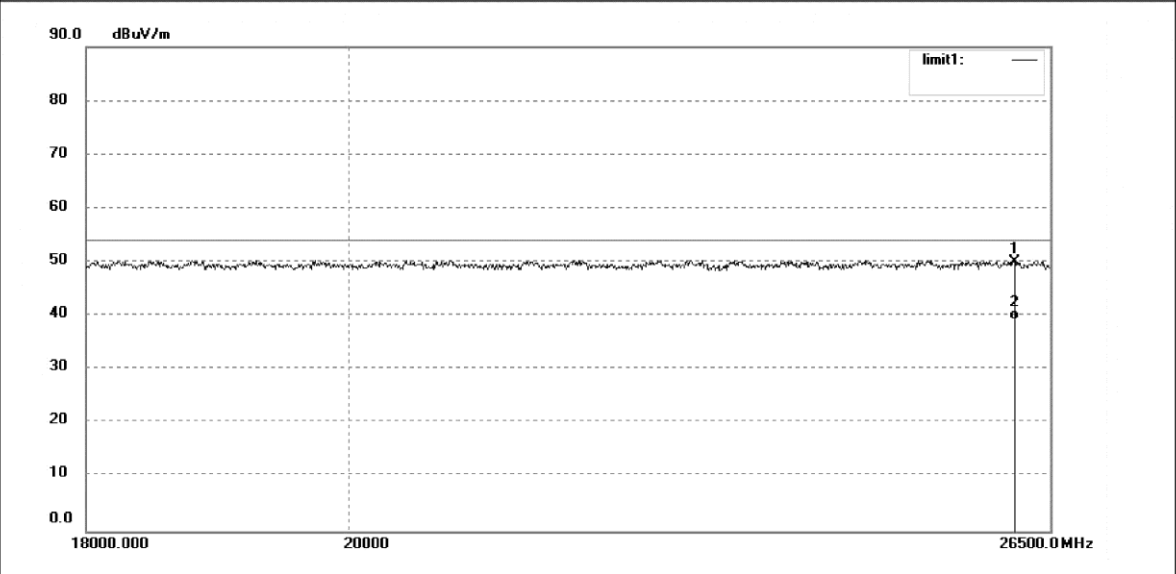
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1496	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26123.470	9.85	40.31	50.16	74.00	-23.84	peak			
2	26123.470	-0.97	40.31	39.34	54.00	-14.66	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

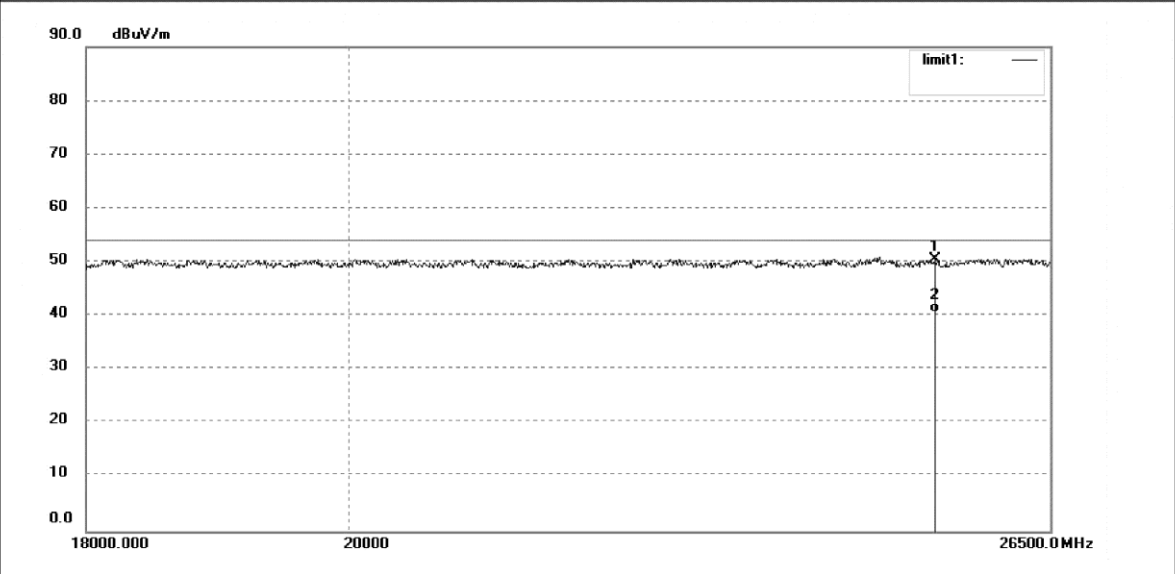
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1497	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25298.168	9.41	41.09	50.50	74.00	-23.50	peak			
2	25298.168	-0.52	41.09	40.57	54.00	-13.43	AVG			

High Channel

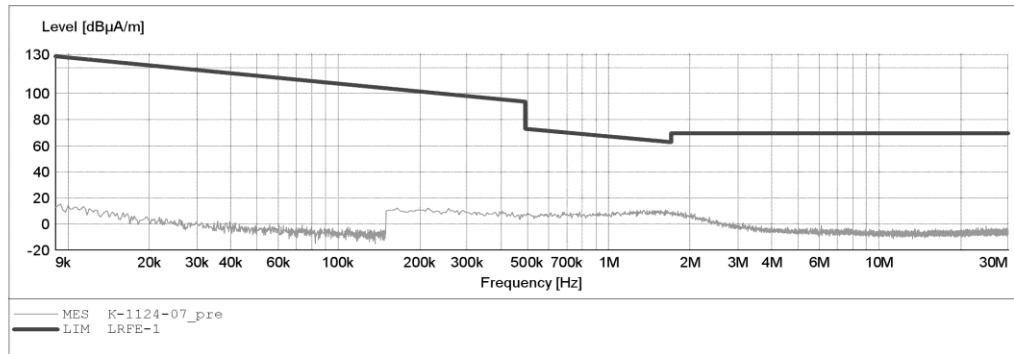
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3M Radiated**

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2479MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: X  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M





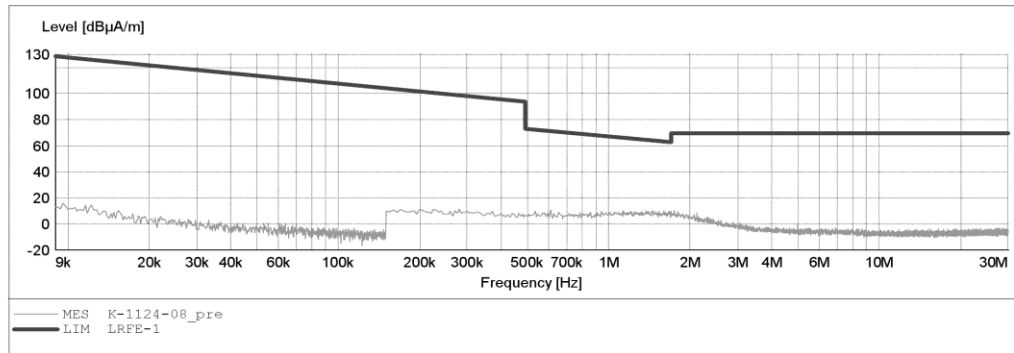
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2479MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: Y  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



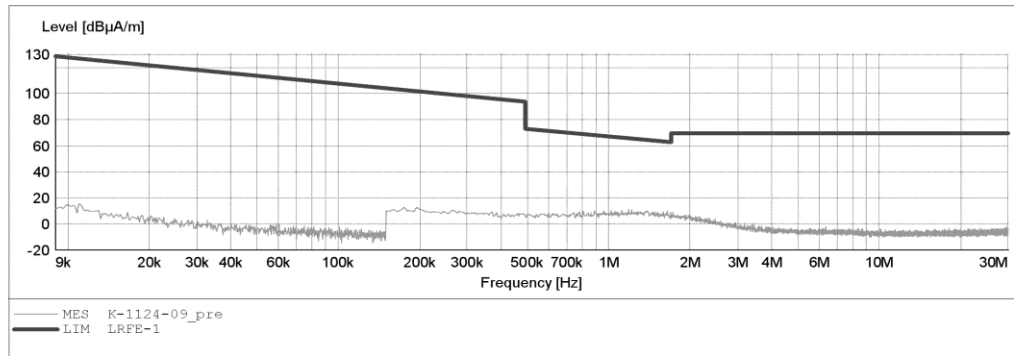
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71  
 Manufacturer: Lenovo  
 Operating Condition: TX 2479MHz  
 Test Site: 2# Chamber  
 Operator: LGWADE  
 Test Specification: DC 3V  
 Comment: Z  
 Start of Test: 2016-11-24 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M





**ACCURATE TECHNOLOGY CO., LTD.**

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

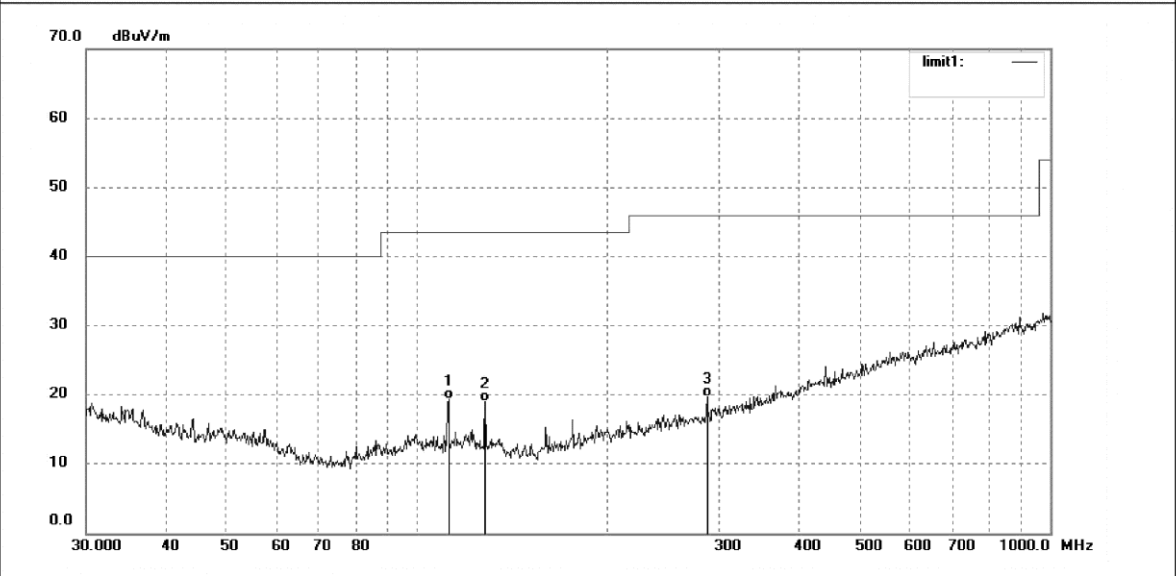
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1482	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2479MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	32.83	-13.50	19.33	43.50	-24.17	QP			
2	128.1127	32.66	-13.71	18.95	43.50	-24.55	QP			
3	286.9823	29.00	-9.38	19.62	46.00	-26.38	QP			



**ACCURATE TECHNOLOGY CO., LTD.**

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

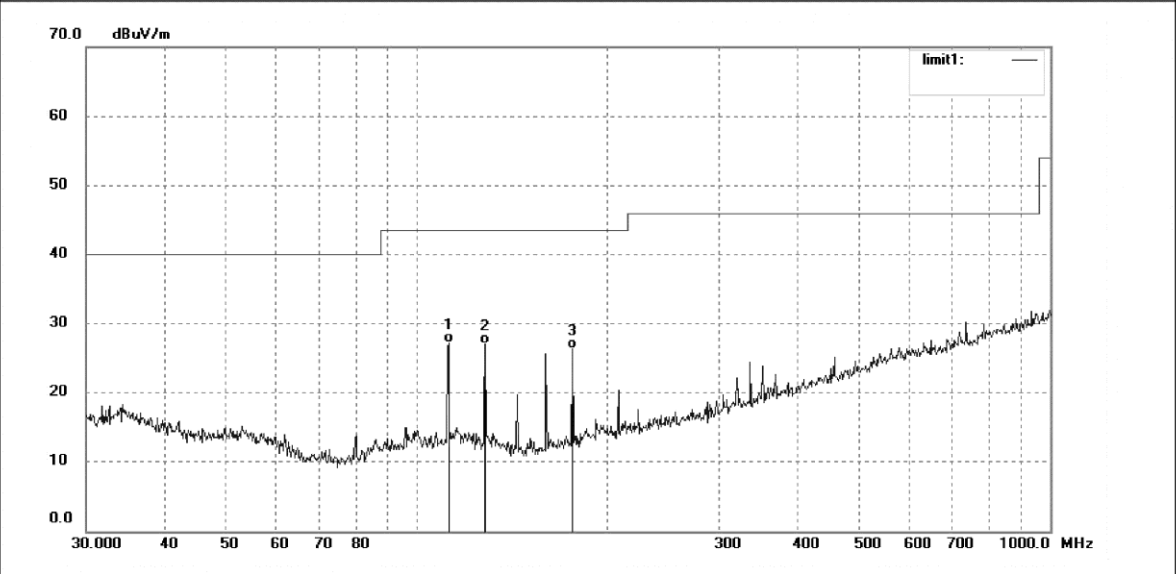
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1483	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2479MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	40.70	-13.50	27.20	43.50	-16.30	QP			
2	128.1127	40.83	-13.71	27.12	43.50	-16.38	QP			
3	176.2684	39.76	-13.44	26.32	43.50	-17.18	QP			



**ACCURATE TECHNOLOGY CO., LTD.**

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

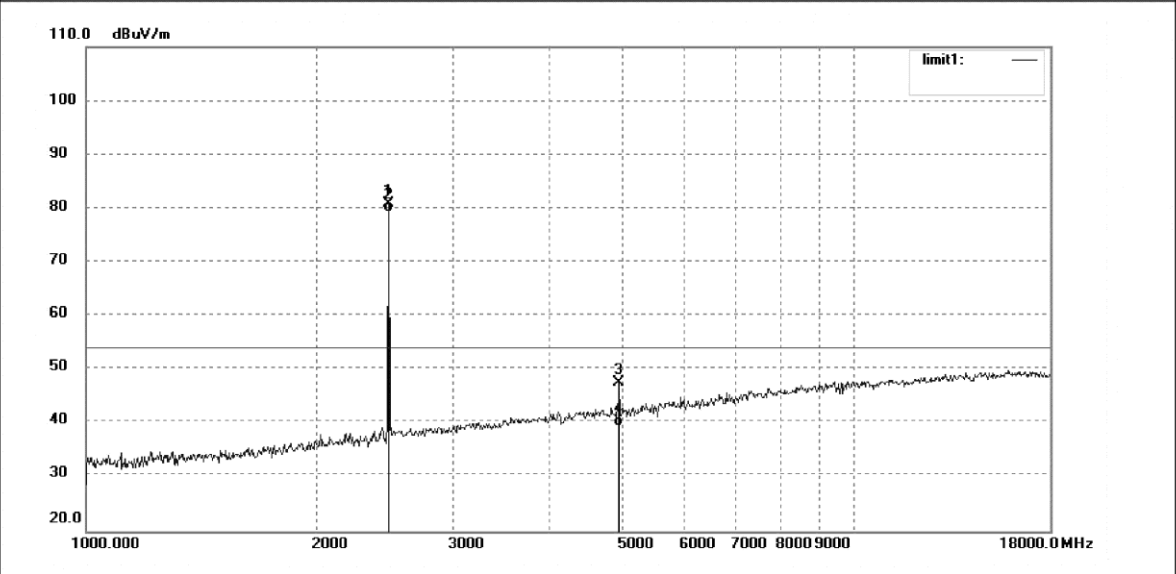
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1490	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2479MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	82.23	-1.40	80.83	114.00	-33.17	peak			
2	2479.000	80.73	-1.40	79.33	94.00	-14.67	AVG			
3	4958.025	41.45	6.08	47.53	74.00	-26.47	peak			
4	4958.025	33.33	6.08	39.41	54.00	-14.59	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

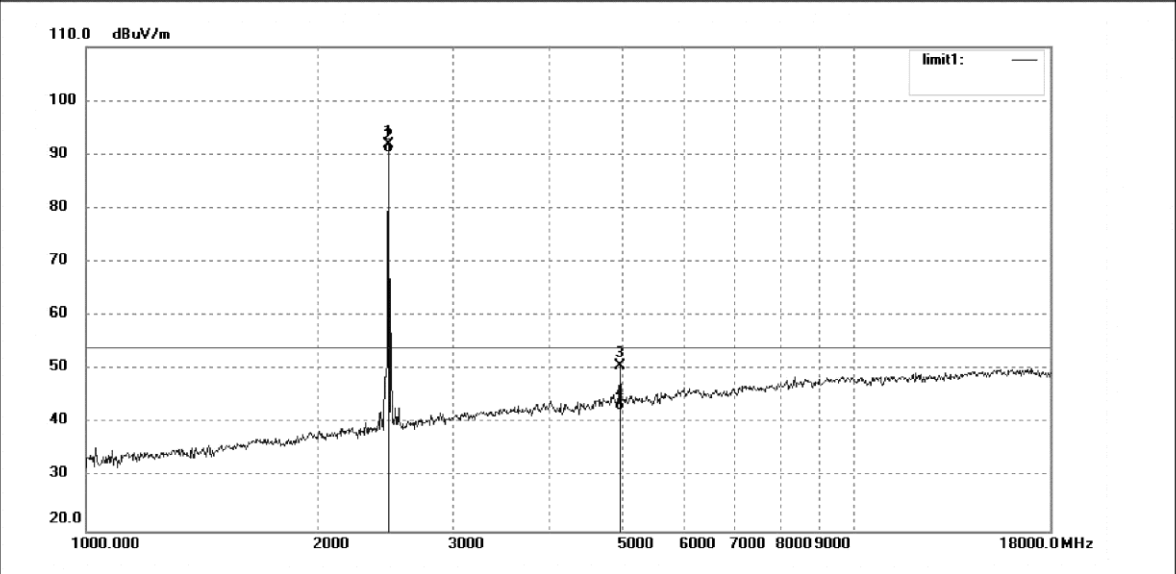
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1491	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2479MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	93.22	-1.40	91.82	114.00	-22.18	peak			
2	2479.000	91.72	-1.40	90.32	94.00	-3.68	AVG			
3	4958.027	44.54	6.08	50.62	74.00	-23.38	peak			
4	4958.027	36.27	6.08	42.35	54.00	-11.65	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

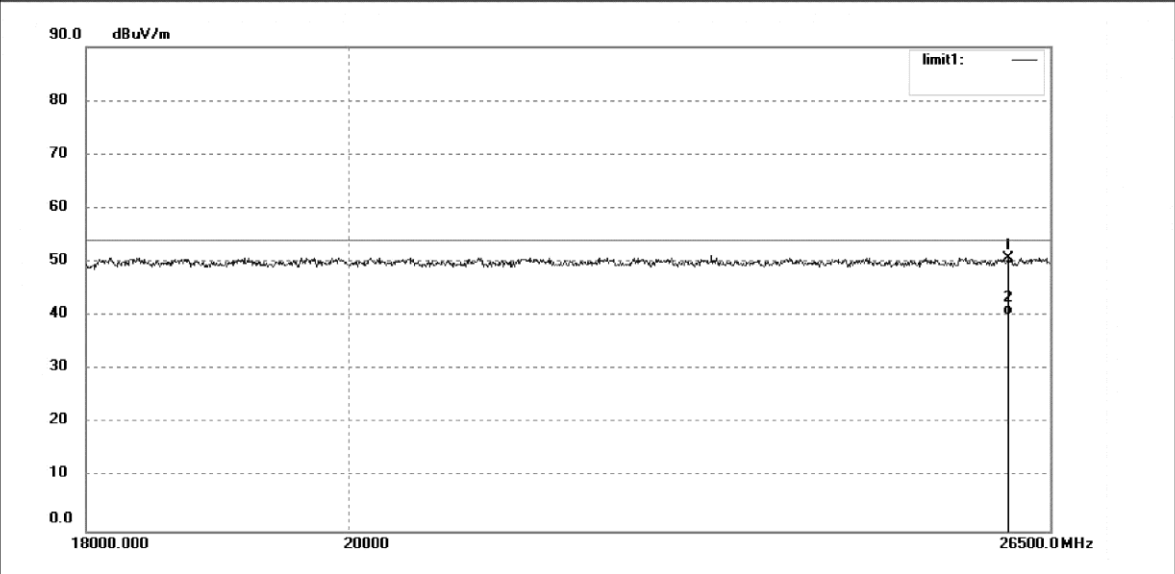
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1498	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2479MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26062.917	9.70	40.97	50.67	74.00	-23.33	peak			
2	26062.917	-0.70	40.97	40.27	54.00	-13.73	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

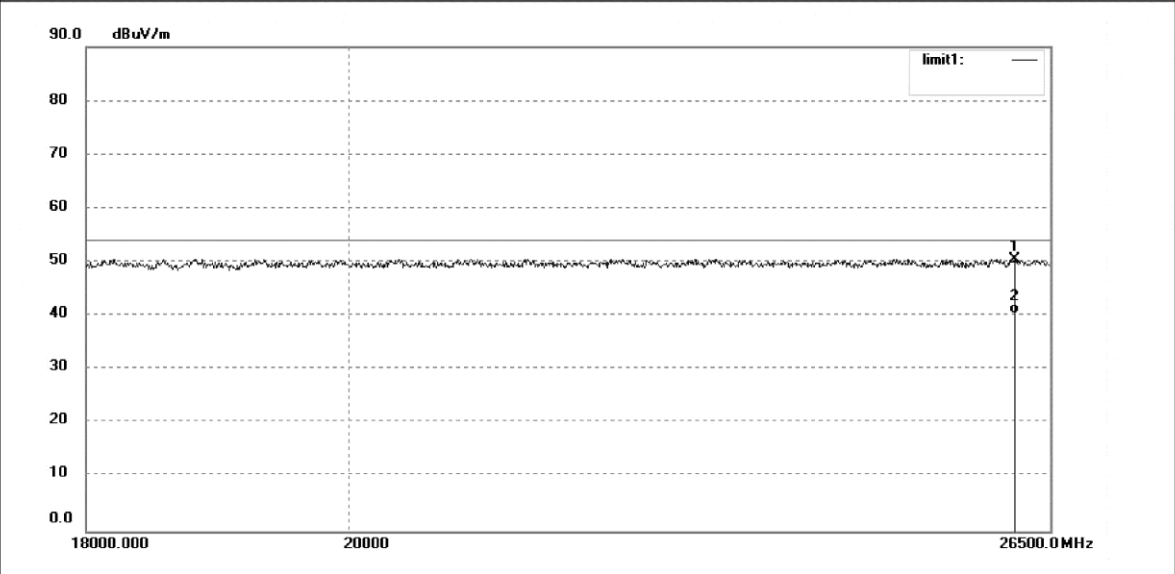
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1499	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2479MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26123.470	10.19	40.31	50.50	74.00	-23.50	peak			
2	26123.470	0.04	40.31	40.35	54.00	-13.65	AVG			



**Appendix A.2: Radiated Emissions in Restricted Bands - 2.4 GHz Wireless operation**  
 Low Channel
**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.: lenovo #1486

Standard: FCC Part 15 (Band Edge)

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

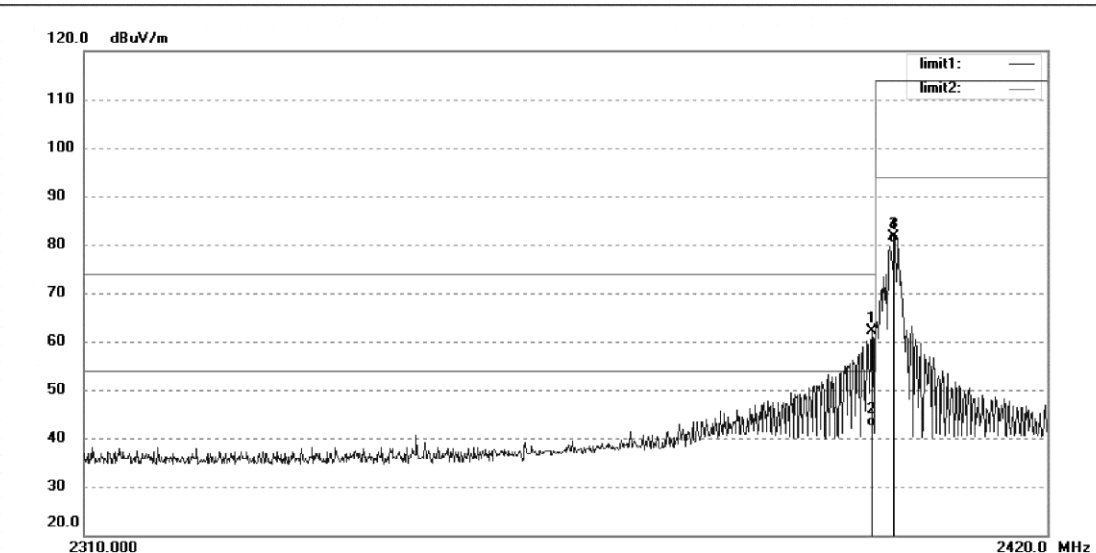
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

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	2399.650	63.77	-1.62	62.15	74.00	-11.85	peak			
2	2399.650	43.97	-1.62	42.35	54.00	-11.65	AVG			
3	2402.000	83.20	-1.61	81.59	114.00	-32.41	peak			
4	2402.000	81.90	-1.61	80.29	94.00	-13.71	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

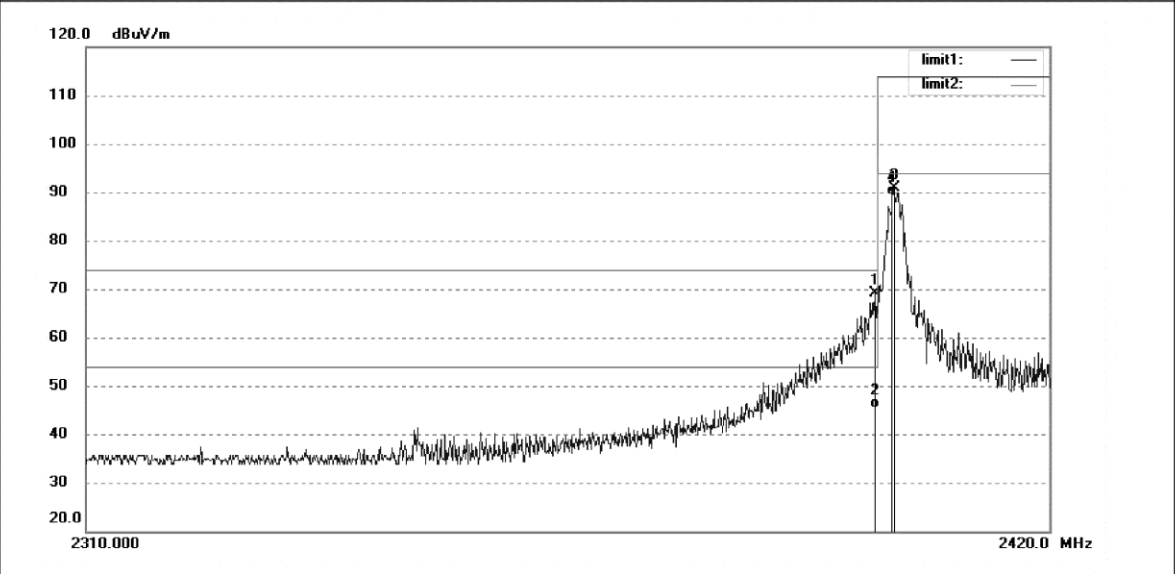
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1487	Polarization: Horizontal
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2399.760	70.65	-1.62	69.03	74.00	-4.97	peak			
2	2399.760	46.96	-1.62	45.34	54.00	-8.66	AVG			
3	2402.000	92.40	-1.61	90.79	114.00	-23.21	peak			
4	2402.000	91.10	-1.61	89.49	94.00	-4.51	AVG			

High Channel



**ACCURATE TECHNOLOGY CO., LTD.**

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

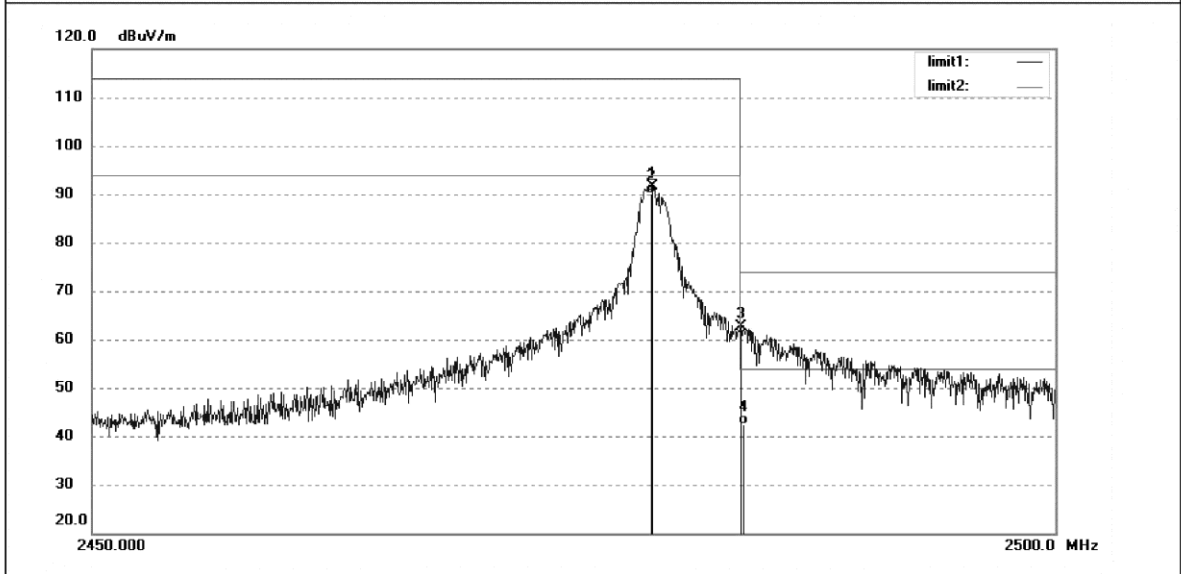
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1492	Polarization: Horizontal
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2479MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	92.96	-1.40	91.56	114.00	-22.44	peak			
2	2479.000	91.46	-1.40	90.06	94.00	-3.94	AVG			
3	2483.600	63.97	-1.40	62.57	74.00	-11.43	peak			
4	2483.600	43.75	-1.40	42.35	54.00	-11.65	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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

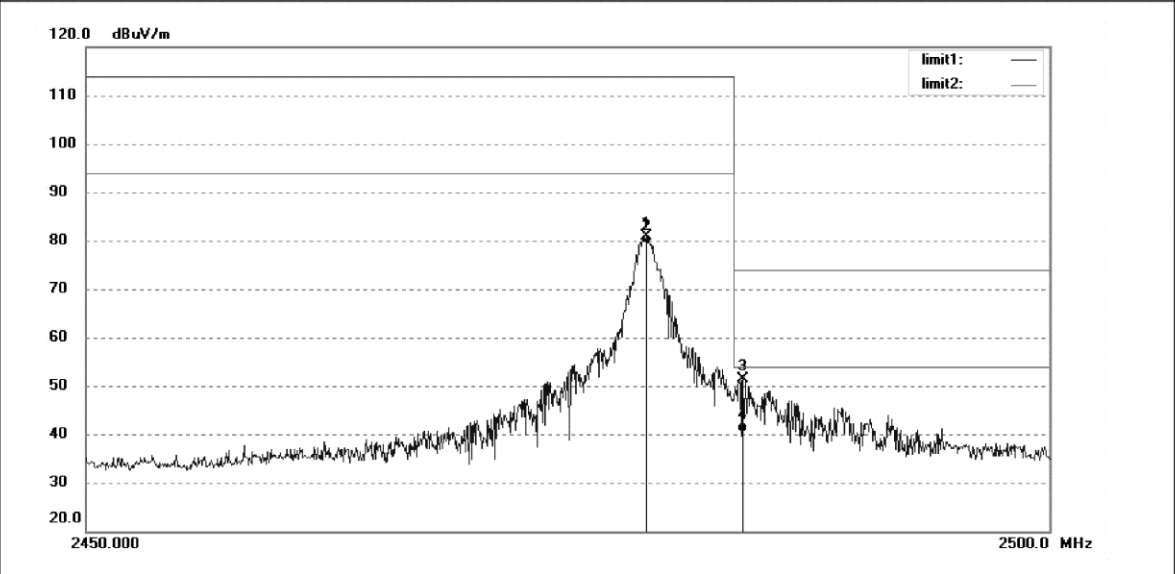
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lenovo #1493	Polarization: Vertical
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 16/11/25/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo Essential Wireless Keyboard	Engineer Signature: LGWADE
Mode: TX 2479MHz	Distance: 3m
Model: KBRFBU71	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	82.18	-1.40	80.78	114.00	-33.22	peak			
2	2479.000	80.68	-1.40	79.28	94.00	-14.72	AVG			
3	2484.000	52.81	-1.41	51.40	74.00	-22.60	peak			
4	2484.000	41.76	-1.41	40.35	54.00	-13.65	AVG			