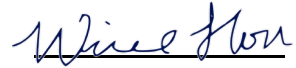


|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                           |                                                                                            |                                                                                       |                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | <b>60414293 002</b>                                                                                                                       | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>                                                  | 168274339                                                                             | Seite 1 von 18<br><i>Page 1 of 18</i> |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                                                                       | <b>Auftragsdatum:</b><br><i>Order date:</i>                                                | 2020-07-21                                                                            |                                       |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>LENOVO (BEIJING) LIMITED</b><br>201-H2-6, Floor 2, Building2, No.6 Shangdi West Road, Haidian District, Beijing<br>100085, P.R.China   |                                                                                            |                                                                                       |                                       |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                | Wireless Receiver                                                                                                                         |                                                                                            |                                                                                       |                                       |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type No.:</i>                                                                                                                                                                                                                                                                                                                                                                                         | RG51-6108                                                                                                                                 |                                                                                            |                                                                                       |                                       |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                           | FCC approval                                                                                                                              |                                                                                            |                                                                                       |                                       |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | CFR47 FCC Part 15: Subpart C Section 15.249<br>CFR47 FCC Part 15: Subpart C Section 15.209<br>CFR47 FCC Part 15: Subpart C Section 15.207 |                                                                                            |                                                                                       |                                       |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                               | 2020-08-04                                                                                                                                | Please refer to photo documents                                                            |                                                                                       |                                       |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                          | A002878830-001~003                                                                                                                        |                                                                                            |                                                                                       |                                       |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                             | 2020-08-05 - 2020-09-08                                                                                                                   |                                                                                            |                                                                                       |                                       |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | TÜV Rheinland (Shenzhen)<br>Co., Ltd.                                                                                                     |                                                                                            |                                                                                       |                                       |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                     | TÜV Rheinland (Shenzhen)<br>Co., Ltd.                                                                                                     |                                                                                            |                                                                                       |                                       |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                              | Pass                                                                                                                                      |                                                                                            |                                                                                       |                                       |
| <b>geprüft von:</b><br><i>tested by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        | <b>genehmigt von:</b><br><i>authorized by:</i>                                             |  |                                       |
| <b>Datum:</b><br><i>Date:</i>                                                                                                                                                                                                                                                                                                                                                                                                                              | 2020-09-09                                                                                                                                | <b>Ausstellungsdatum:</b><br><i>Issue date:</i>                                            | 2020-09-09                                                                            |                                       |
| <b>Stellung / Position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lin Lin / Senior Project Manager                                                                                                          | <b>Stellung / Position</b>                                                                 | Winnie Hou / Technical Certifier                                                      |                                       |
| <b>Sonstiges / Other:</b><br>FCC ID: A5MRG51-6108                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                           |                                                                                            |                                                                                       |                                       |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                           | <b>Prüfmuster vollständig und unbeschädigt</b><br><i>Test item complete and undamaged:</i> |                                                                                       |                                       |
| * Legende: 1 = sehr gut 2 = gut 3 = befriedigend<br>P(ass) = entspricht o.g. Prüfgrundlage(n)                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                           | 4 = ausreichend 5 = mangelhaft<br>N/A = nicht anwendbar N/T = nicht getestet               |                                                                                       |                                       |
| Legend: 1 = very good 2 = good 3 = satisfactory<br>P(ass) = passed a.m. test specifications(s)                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                           | 4 = sufficient 5 = poor<br>N/A = not applicable N/T = not tested                           |                                                                                       |                                       |
| <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><br><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> |                                                                                                                                           |                                                                                            |                                                                                       |                                       |

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## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

RESULT: Pass

**5.1.2 FUNDAMENTAL & HARMONICS RADIATED EMISSION**

RESULT: Pass

**5.1.3 20dB BANDWIDTH**

RESULT: Pass

**5.1.4 RADIATED SPURIOUS EMISSION & BAND EDGE**

RESULT: Pass

**5.1.5 CONDUCTED EMISSION ON AC MAINS**

RESULT: Pass

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# 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: Photographs of the Test Set-up

Appendix B: Test Results of General 2.4GHz.

## 2 Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Registration No.: CN1260

### 2.2 List of Test and Measurement Instruments

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

**TÜV Rheinland (Shenzhen) Co., Ltd.**

| <b>Unwanted Emission Testing (TS9975)</b> |                     |                   |                   |                   |
|-------------------------------------------|---------------------|-------------------|-------------------|-------------------|
| <b>Equipment</b>                          | <b>Manufacturer</b> | <b>Model</b>      | <b>Serial No.</b> | <b>Cal. until</b> |
| EMI Test Receiver                         | R&S                 | ESR 7             | 102021            | 2021-08-11        |
| Signal Analyzer                           | R&S                 | FSV 40            | 101439            | 2021-08-10        |
| System Controller Interface               | R&S                 | SCI-100           | S10010038         | N/A               |
| Filterbank                                | R&S                 | Wlan              | 100759            | 2021-08-10        |
| OSP                                       | R&S                 | OSP 120           | 102040            | N/A               |
| Pre-amplifier                             | R&S                 | SCU08F1           | 08320031          | 2021-08-10        |
| Amplifier                                 | R&S                 | SCU-18F           | 180070            | 2021-08-10        |
| Amplifier                                 | R&S                 | SCU40A            | 100475            | 2020-09-20        |
| Trilog Broadband Antenna (30 MHz - 7 GHz) | Schwarzbeck         | VULB 9162         | 193               | 2022-08-08        |
| Double-Ridged Antenna (1 -18 GHz)         | ETS-LINDGREN        | 3117              | 00218717          | 2022-08-08        |
| Wideband Ridged Horn Antenna (18-40 GHz)  | Steatite            | QMS-00880         | 19067             | 2022-08-08        |
| Active Loop Antenna                       | Schwarzbeck         | FMZB 1513         | 302               | 2020-09-30        |
| Wideband Ridged Horn Antenna (12-18 GHz)  | Steatite            | QMS-00208         | 18313             | 2021-09-02        |
| Test software                             | R&S                 | EMC32 (V10.60.10) | N/A               | N/A               |
| Control PC                                | Dell                | OptiPlex 7050     | 36NV9P2           | N/A               |
| 3m Semi-Anechoic Chamber                  | Albatross           | SAC-3m            | APC17151-SAC      | 2021-07-06        |

| Conducted Emission on AC Mains |              |                     |            |             |
|--------------------------------|--------------|---------------------|------------|-------------|
| Equipment                      | Manufacturer | Model No.           | Serial No. | Cali. until |
| EMI Test Receiver              | R&S          | ESR3                | 102428     | 2021-08-16  |
| Artificial Mains Network       | R&S          | ENV216              | 102333     | 2021-08-16  |
| EMC32 test software            | R&S          | EMC32(Ver.10.50.01) | N/A        | N/A         |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, 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.

| Parameter                                              | Uncertainty                   |
|--------------------------------------------------------|-------------------------------|
| Radio Frequency                                        | $\pm 1 \times 10^{-7}$        |
| RF Power (conducted)                                   | $\pm 2.5$ dB                  |
| Radiated Emission of Transmitter, valid up to 26.5 GHz | $\pm 6$ dB                    |
| Radiated Emission of Receiver, valid up to 26.5 GHz    | $\pm 6$ dB                    |
| Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz) | $\pm 3.70$ dB / $\pm 3.30$ dB |
| Radiated Emission (3m SAC), 30MHz to 1000MHz           | $\pm 4.52$ dB                 |
| Radiated Emission (3m SAC), above 1000MHz              | $\pm 4.37$ dB                 |
| Temperature                                            | $\pm 1$ °C                    |
| Humidity                                               | $\pm 5$ %                     |
| Voltage (DC)                                           | $\pm 1$ %                     |

## 2.6 Location of Original Data

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

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## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of 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 a USB dongle, which supports 2.4GHz wireless technology.

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

#### 3.2 Ratings and System Details

Table 2: Technical Specification of EUT

| General Information of EUT | Value                                           |
|----------------------------|-------------------------------------------------|
| Kind of Equipment          | Wireless Receiver                               |
| Type Designation           | RG51-6108                                       |
| FCC ID                     | A5MRG51-6108                                    |
| Operating Voltage          | DC 5.0V via USB port                            |
| Frequency Range            | 2405-2475 MHz                                   |
| Type of Modulation         | GFSK (non-FHSS)                                 |
| Channel Number             | 16 channels                                     |
| Channel Separation         | 2MHz, 3MHz, 4MHz, 5MHz, 6MHz, 7MHz, 8MHz, 10MHz |
| Antenna Type               | Integral Antenna                                |
| Antenna Gain               | -0.71 dBi                                       |

Table 3: RF Channel and Frequency of Transmitter

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 1          | 2405            | 2          | 2407            | 3          | 2414            | 4          | 2419            |
| 5          | 2422            | 6          | 2426            | 7          | 2436            | 8          | 2439            |
| 9          | 2441            | 10         | 2445            | 11         | 2453            | 12         | 2459            |
| 13         | 2463            | 14         | 2466            | 15         | 2473            | 16         | 2475            |

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Transmitting mode
- B. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- Application Form

## 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. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model RG51-6108 in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

| Description     | Manufacturer | Model         | S/N      | Rating  |
|-----------------|--------------|---------------|----------|---------|
| Wireless mouse  | Lenovo       | L530-A        | N/A      | DC 1.5V |
| Portable Laptop | Lenovo       | ThinkPad T480 | 10Q67059 | N/A     |

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

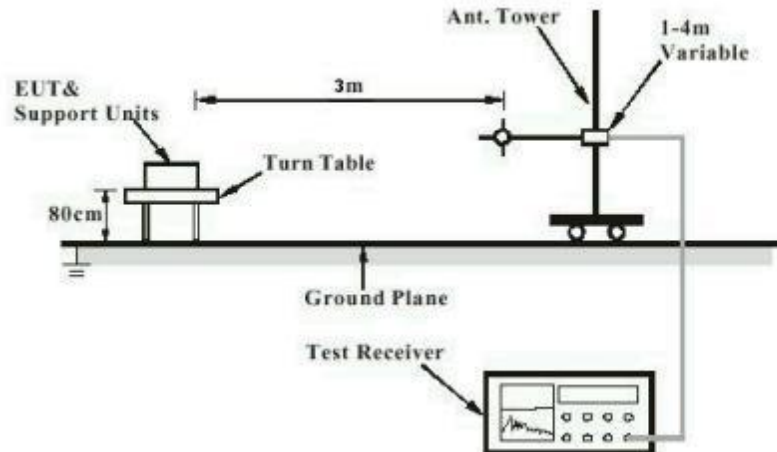
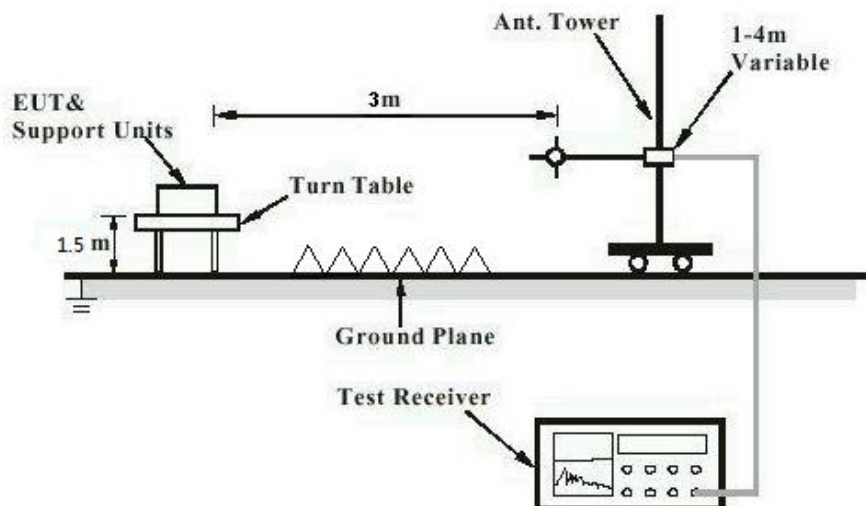
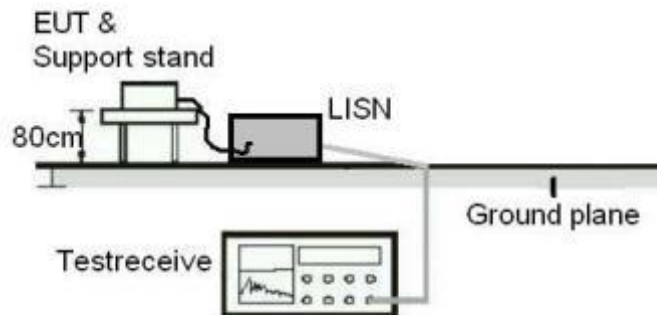


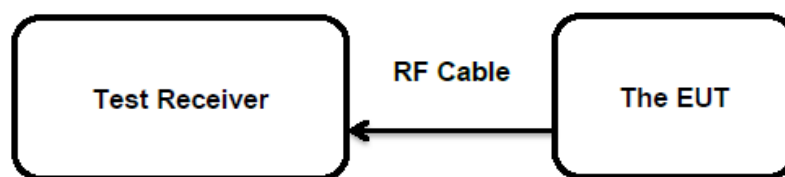
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



### Diagram of Measurement Configuration for Mains Conduction Measurement



### Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

Pass

**Test Specification**

Test standard : FCC Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -0.71 dBi, and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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## 5.1.2 Fundamental & Harmonics Radiated Emission

**RESULT:****Pass****Test Specification**

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Test standard     | : FCC Part 15.249(a)                                  |
| Basic standard    | : ANSI C63.10: 2013                                   |
| Limits            | : Refer to FCC Part 15.249(a) & 15.209(a)             |
| Kind of test site | : 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber |

**Test Setup**

|                      |                         |
|----------------------|-------------------------|
| Date of testing      | : 2020-08-07~2020-09-02 |
| Input voltage        | : DC 5.0V via USB port  |
| Operation mode       | : A                     |
| Test channel         | : Low / Middle / High   |
| Ambient temperature  | : Refer to test result  |
| Relative humidity    | : Refer to test result  |
| Atmospheric pressure | : 101 kPa               |

For the measurement records, refer to the appendix B.

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### 5.1.3 20dB Bandwidth

RESULT:

**Pass****Test Specification**

|                   |                     |
|-------------------|---------------------|
| Test standard     | : FCC Part 15.215   |
| Basic standard    | : ANSI C63.10: 2013 |
| Kind of test site | : Shielded Room     |

**Test Setup**

|                      |                        |
|----------------------|------------------------|
| Date of testing      | : 2020-09-03           |
| Input voltage        | : DC 5.0V via USB port |
| Operation mode       | : A                    |
| Test channel         | : Low / Middle / High  |
| Ambient temperature  | : 22 °C                |
| Relative humidity    | : 52 %                 |
| Atmospheric pressure | : 101 kPa              |

For the measurement records, refer to the appendix B.

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### 5.1.4 Radiated Spurious Emission & Band Edge

RESULT:

Pass

**Test Specification**

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Test standard     | : FCC Part 15.249(a)                                  |
| Basic standard    | : ANSI C63.10: 2013                                   |
| Limits            | : Refer to FCC Part 15.249(a) & 15.209(a)             |
| Kind of test site | : 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber |

**Test Setup**

|                      |                        |
|----------------------|------------------------|
| Date of testing      | : 2020-09-02           |
| Input voltage        | : DC 5.0V via USB port |
| Operation mode       | : A                    |
| Test channel         | : Low / Middle / High  |
| Ambient temperature  | : 22 °C                |
| Relative humidity    | : 52 %                 |
| Atmospheric pressure | : 101 kPa              |

## Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

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### 5.1.5 Conducted Emission on AC Mains

RESULT:

Pass

**Test Specification**

|                   |                      |
|-------------------|----------------------|
| Test standard     | : FCC Part 15.207(a) |
| Basic standard    | : ANSI C63.10: 2013  |
| Frequency range   | : 0.15 – 30MHz       |
| Limits            | : FCC Part 15.207(a) |
| Kind of test site | : Shielded Room      |

**Test Setup**

|                      |              |
|----------------------|--------------|
| Date of testing      | : 2020-08-21 |
| Input voltage        | : DC 1.5V    |
| Operation mode       | : A          |
| Ambient temperature  | : 22 °C      |
| Relative humidity    | : 54 %       |
| Atmospheric pressure | : 101 kPa    |

For the measurement records, refer to the appendix B.

## 6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

## 7 List of Tables

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