

Test Report No:  
2330747R-RFUSV01S-A

## TEST REPORT

### FCC Rules&Regulations

|                                 |                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                    | Bluetooth Keyboard                                                                                                                                 |
| Brand Name                      | Leopold                                                                                                                                            |
| Model No.                       | FC630MBT                                                                                                                                           |
| FCC ID                          | RPK-FC630MBT                                                                                                                                       |
| Applicant's Name / Address      | Leopold Co., Ltd.<br>B-dong-306, DaebangTriplaon BusinessTower, 158,<br>Haneulmaeul-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do,<br>Republic of Korea |
| Manufacturer's Name / Address   | Datacomp Electronics Co.,Ltd.<br>No.38, Sec.2, Nankan Rd., Lujhu Dist., Taoyuan City<br>338,Taiwan.(R.O.C)                                         |
| Test Method Requested, Standard | FCC CFR Title 47 Part 15 Subpart C Section 15.247<br>ANSI C63.10-2013                                                                              |
| Verdict Summary                 | IN COMPLIANCE                                                                                                                                      |
| Documented By                   | <i>Hailey Peng</i><br>Hailey Peng / Senior Engineer                                                                                                |
| Approved By                     | <i>Rueyyan Lin</i><br>Rueyyan Lin / Supervisor                                                                                                     |
| Date of Receipt                 | Mar. 21, 2023                                                                                                                                      |
| Date of Issue                   | May 11, 2023                                                                                                                                       |
| Report Version                  | V1.0                                                                                                                                               |

## INDEX

|                                                                                  | page |
|----------------------------------------------------------------------------------|------|
| Competences and Guarantees.....                                                  | 4    |
| General Conditions .....                                                         | 4    |
| Revision History .....                                                           | 5    |
| 1. General Information.....                                                      | 6    |
| 1.1. EUT Description .....                                                       | 6    |
| 1.2. Test Mode .....                                                             | 8    |
| 1.3. Comments and Remarks.....                                                   | 8    |
| 1.4. Tested System Details .....                                                 | 9    |
| 1.5. Configuration of tested System .....                                        | 9    |
| 1.6. EUT Operation of during Test.....                                           | 9    |
| 1.7. Test Facility.....                                                          | 10   |
| 1.8. List of Test Equipment .....                                                | 12   |
| 1.9. Measurement Uncertainty .....                                               | 13   |
| 1.10. Duty Cycle .....                                                           | 14   |
| 2. AC Power Line Conducted Emission .....                                        | 15   |
| 2.1. Test Setup.....                                                             | 15   |
| 2.2. Test Limit .....                                                            | 15   |
| 2.3. Test Procedure .....                                                        | 15   |
| 2.4. Test Specification.....                                                     | 15   |
| 2.5. Test Result of AC Power Line Conducted Emission.....                        | 16   |
| 3. Maximum Conducted Output Power .....                                          | 18   |
| 3.1. Test Setup.....                                                             | 18   |
| 3.2. Test Limit .....                                                            | 18   |
| 3.3. Test Procedures.....                                                        | 18   |
| 3.4. Test Specification.....                                                     | 18   |
| 3.5. Test Result of Maximum Conducted Output Power .....                         | 19   |
| 4. Radiated Emission.....                                                        | 20   |
| 4.1. Test Setup.....                                                             | 20   |
| 4.2. Test Limit .....                                                            | 21   |
| 4.3. Test Procedure .....                                                        | 22   |
| 4.4. Test Specification.....                                                     | 22   |
| 4.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz) .....                    | 23   |
| 4.6. Test Result of Radiated Emissions (1 GHz ~ 10 <sup>th</sup> Harmonic) ..... | 24   |
| 5. Antenna Port Conducted Emission .....                                         | 26   |
| 5.1. Test Setup.....                                                             | 26   |
| 5.2. Test Limit .....                                                            | 26   |

|                          |                                                      |    |
|--------------------------|------------------------------------------------------|----|
| 5.3.                     | Test Procedure .....                                 | 26 |
| 5.4.                     | Test Specification.....                              | 26 |
| 5.5.                     | Test Result of Antenna Port Conducted Emission ..... | 27 |
| 6.                       | Radiated Emission Band Edge.....                     | 29 |
| 6.1.                     | Test Setup.....                                      | 29 |
| 6.2.                     | Test Limit .....                                     | 29 |
| 6.3.                     | Test Procedure .....                                 | 30 |
| 6.4.                     | Test Specification.....                              | 30 |
| 6.5.                     | Test Result of Radiated Emission Band Edge.....      | 31 |
| 7.                       | Number of Hopping Frequency .....                    | 34 |
| 7.1.                     | Test Setup.....                                      | 34 |
| 7.2.                     | Test Limit .....                                     | 34 |
| 7.3.                     | Test Procedures.....                                 | 34 |
| 7.4.                     | Test Specification.....                              | 34 |
| 7.5.                     | Test Result of Number of Hopping Frequency .....     | 35 |
| 8.                       | Carrier Frequency Separation .....                   | 36 |
| 8.1.                     | Test Setup.....                                      | 36 |
| 8.2.                     | Test Limit .....                                     | 36 |
| 8.3.                     | Test Procedures.....                                 | 36 |
| 8.4.                     | Test Specification.....                              | 36 |
| 8.5.                     | Test Result of Carrier Frequency Separation .....    | 37 |
| 9.                       | 20dB Bandwidth .....                                 | 38 |
| 9.1.                     | Test Setup.....                                      | 38 |
| 9.2.                     | Test Limit .....                                     | 38 |
| 9.3.                     | Test Procedures.....                                 | 38 |
| 9.4.                     | Test Specification.....                              | 38 |
| 9.5.                     | Test Result of 20dB Bandwidth .....                  | 39 |
| 10.                      | Dwell Time.....                                      | 40 |
| 10.1.                    | Test Setup.....                                      | 40 |
| 10.2.                    | Test Limit .....                                     | 40 |
| 10.3.                    | Test Procedures.....                                 | 41 |
| 10.4.                    | Test Specification.....                              | 41 |
| 10.5.                    | Test Result of Dwell Time .....                      | 42 |
|                          | Appendix A .....                                     | 43 |
| <input type="checkbox"/> | Test Setup Photograph.....                           | 43 |

## Competences and Guarantees

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DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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## General Conditions

---

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

| Version | Description             | Issued Date  |
|---------|-------------------------|--------------|
| V1.0    | Initial issue of report | May 11, 2023 |
|         |                         |              |
|         |                         |              |
|         |                         |              |
|         |                         |              |
|         |                         |              |
|         |                         |              |
|         |                         |              |
|         |                         |              |
|         |                         |              |

## 1. General Information

### 1.1. EUT Description

|                    |                                                             |
|--------------------|-------------------------------------------------------------|
| Product Name       | Bluetooth Keyboard                                          |
| Brand Name         | Leopold                                                     |
| Model No.          | FC630MBT                                                    |
| EUT Voltage        | DC 5V (host equipment)<br>DC 3V for battery (AAA battery*2) |
| Frequency Range    | 2402 ~ 2480 MHz                                             |
| Channel Number     | 79 Channels                                                 |
| Type of Modulation | Frequency Hopping Spread Spectrum                           |
| Data Rate          | BR uses a GFSK (1 Mbps)                                     |

| Accessories Information |                     |            |              |                |
|-------------------------|---------------------|------------|--------------|----------------|
| No.                     | Equipment Name      | Brand Name | Model No.    | Description    |
| 1                       | USB to Type C Cable | Kun        | U20AMCM18MBK | Shielded, 1.8m |

| Antenna Information |            |           |      |            |
|---------------------|------------|-----------|------|------------|
| Ant.                | Brand Name | Model No. | Type | Gain (dBi) |
| 0                   | YoFree     | YFBT01    | PCB  | 2.78       |

| EUT Operational Condition |              |
|---------------------------|--------------|
| Testing Voltage           | AC 120V/60Hz |

| Working Frequency of Each Channel |           |         |           |         |           |         |           |
|-----------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                           | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 00                                | 2402 MHz  | 20      | 2422 MHz  | 40      | 2442 MHz  | 60      | 2462 MHz  |
| 01                                | 2403 MHz  | 21      | 2423 MHz  | 41      | 2443 MHz  | 61      | 2463 MHz  |
| 02                                | 2404 MHz  | 22      | 2424 MHz  | 42      | 2444 MHz  | 62      | 2464 MHz  |
| 03                                | 2405 MHz  | 23      | 2425 MHz  | 43      | 2445 MHz  | 63      | 2465 MHz  |
| 04                                | 2406 MHz  | 24      | 2426 MHz  | 44      | 2446 MHz  | 64      | 2466 MHz  |
| 05                                | 2407 MHz  | 25      | 2427 MHz  | 45      | 2447 MHz  | 65      | 2467 MHz  |
| 06                                | 2408 MHz  | 26      | 2428 MHz  | 46      | 2448 MHz  | 66      | 2468 MHz  |
| 07                                | 2409 MHz  | 27      | 2429 MHz  | 47      | 2449 MHz  | 67      | 2469 MHz  |
| 08                                | 2410 MHz  | 28      | 2430 MHz  | 48      | 2450 MHz  | 68      | 2470 MHz  |
| 09                                | 2411 MHz  | 29      | 2431 MHz  | 49      | 2451 MHz  | 69      | 2471 MHz  |
| 10                                | 2412 MHz  | 30      | 2432 MHz  | 50      | 2452 MHz  | 70      | 2472 MHz  |
| 11                                | 2413 MHz  | 31      | 2433 MHz  | 51      | 2453 MHz  | 71      | 2473 MHz  |
| 12                                | 2414 MHz  | 32      | 2434 MHz  | 52      | 2454 MHz  | 72      | 2474 MHz  |
| 13                                | 2415 MHz  | 33      | 2435 MHz  | 53      | 2455 MHz  | 73      | 2475 MHz  |
| 14                                | 2416 MHz  | 34      | 2436 MHz  | 54      | 2456 MHz  | 74      | 2476 MHz  |
| 15                                | 2417 MHz  | 35      | 2437 MHz  | 55      | 2457 MHz  | 75      | 2477 MHz  |
| 16                                | 2418 MHz  | 36      | 2438 MHz  | 56      | 2458 MHz  | 76      | 2478 MHz  |
| 17                                | 2419 MHz  | 37      | 2439 MHz  | 57      | 2459 MHz  | 77      | 2479 MHz  |
| 18                                | 2420 MHz  | 38      | 2440 MHz  | 58      | 2460 MHz  | 78      | 2480 MHz  |
| 19                                | 2421 MHz  | 39      | 2441 MHz  | 59      | 2461 MHz  | -       | -         |

## Note:

1. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and then shown on this report.
2. The above EUT information is declared by the manufacturer.

## 1.2. Test Mode

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

| Test Mode                        | Mode 1: Transmit |            |              |        |
|----------------------------------|------------------|------------|--------------|--------|
| Test Items                       | Test Mode        | Modulation | Channel      | Result |
| AC Power Line Conducted Emission | Mode 1           | GFSK       | 00           | Pass   |
| Maximum Conducted Output Power   | Mode 1           | GFSK       | 00/39/78     | Pass   |
| Radiated Emission Below 1 GHz    | Mode 1           | GFSK       | 00           | Pass   |
| Radiated Emission Above 1 GHz    | Mode 1           | GFSK       | 00/39/78     | Pass   |
| Antenna Port Conducted Emission  | Mode 1           | GFSK       | 00/39/78     | Pass   |
| Radiated Emission Band Edge      | Mode 1           | GFSK       | 00/39/78     | Pass   |
| Number of Hopping Frequency      | Mode 1           | GFSK       | Hopping mode | Pass   |
| Carrier Frequency Separation     | Mode 1           | GFSK       | 00/39/78     | Pass   |
| 20dB Bandwidth                   | Mode 1           | GFSK       | 00/39/78     | Pass   |
| Dwell Time                       | Mode 1           | GFSK       | 00/39/78     | Pass   |

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
3. For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.

## 1.3. Comments and Remarks

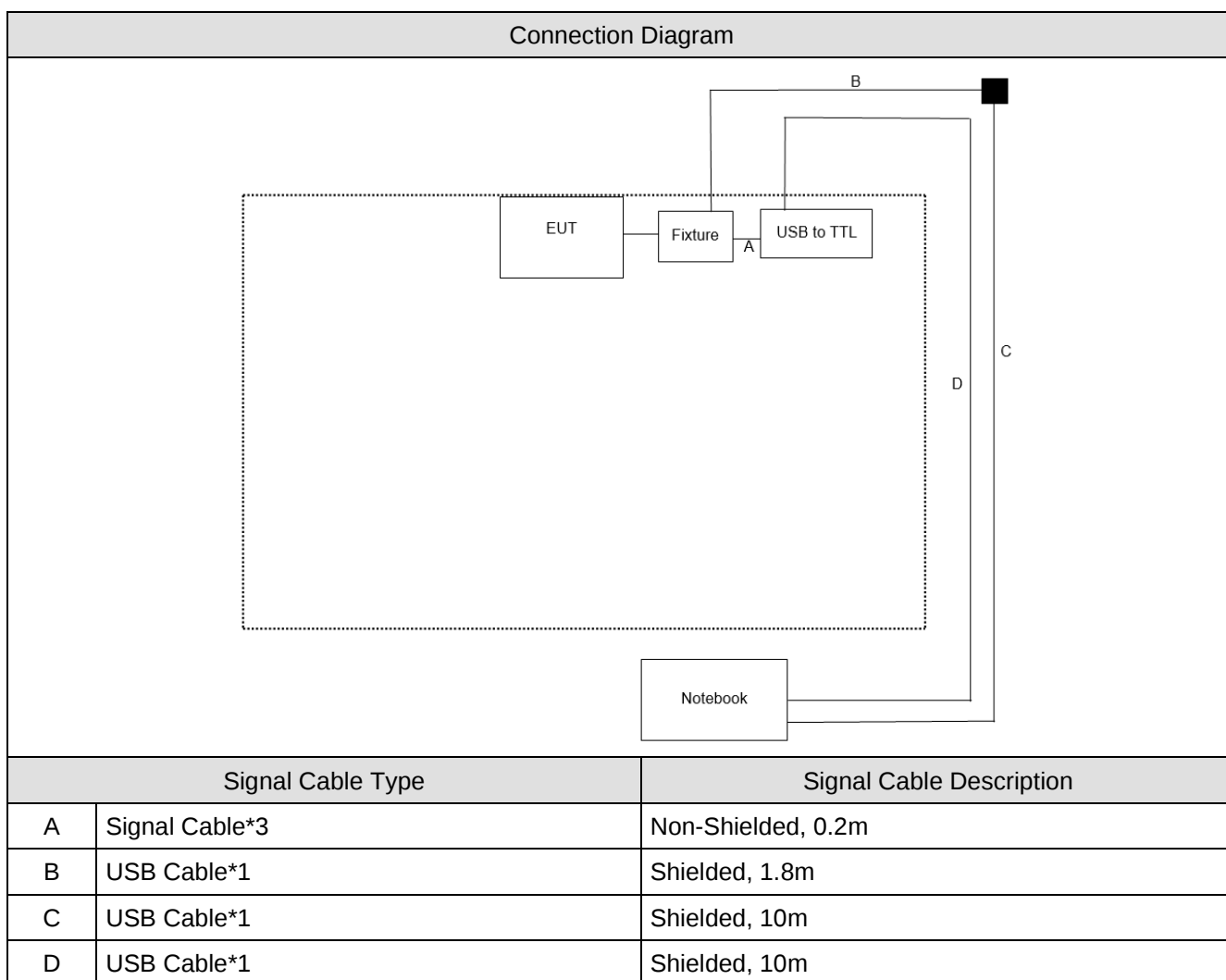
The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

## 1.4. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system.

|   | Product    | Manufacturer | Model No.      | Serial No. |
|---|------------|--------------|----------------|------------|
| 1 | Fixture    | SparkFun     | C9-16          | N/A        |
| 2 | USB to TTL | JIN HUA      | 2.42E+12       | N/A        |
| 3 | Notebook   | DELL         | Latitude E6320 | 8208580717 |

## 1.5. Configuration of tested System



## 1.6. EUT Operation of during Test

|   |                                                               |
|---|---------------------------------------------------------------|
| 1 | Execute control command by software "BlueTool v1.8.3.5".      |
| 2 | Configure the test mode, the test channel, and the data rate. |
| 3 | Press "Start TX" to start the continuous transmitting.        |
| 4 | Verify that the EUT works properly.                           |

## 1.7. Test Facility

Ambient conditions in the laboratory:

| Items            | Test Item                        | Actually | Tested by   | Test Date  | Test Site |
|------------------|----------------------------------|----------|-------------|------------|-----------|
| Temperature (°C) | AC Power Line Conducted Emission | 22.2     | Scott Chang | 2023/04/24 | HC-SR02   |
| Humidity (%RH)   |                                  | 58       |             |            |           |
| Temperature (°C) | Maximum Conducted Output Power   | 20.5     | Scott Chang | 2023/04/07 | HC-SR12   |
| Humidity (%RH)   |                                  | 58       |             |            |           |
| Temperature (°C) | Radiated Emission                | 21       | Scott Chang | 2023/04/06 | HC-CB04   |
| Humidity (%RH)   |                                  | 55       |             |            |           |
| Temperature (°C) | Antenna Port Conducted Emission  | 20.5     | Scott Chang | 2023/04/07 | HC-SR12   |
| Humidity (%RH)   |                                  | 58       |             |            |           |
| Temperature (°C) | Radiated Emission Band Edge      | 21       | Scott Chang | 2023/04/06 | HC-CB04   |
| Humidity (%RH)   |                                  | 55       |             |            |           |
| Temperature (°C) | Number of Hopping Frequency      | 20.5     | Scott Chang | 2023/04/07 | HC-SR12   |
| Humidity (%RH)   |                                  | 58       |             |            |           |
| Temperature (°C) | Carrier Frequency Separation     | 20.5     | Scott Chang | 2023/04/07 | HC-SR12   |
| Humidity (%RH)   |                                  | 58       |             |            |           |
| Temperature (°C) | 20dB Bandwidth                   | 20.5     | Scott Chang | 2023/04/07 | HC-SR12   |
| Humidity (%RH)   |                                  | 58       |             |            |           |
| Temperature (°C) | Dwell Time                       | 20.5     | Scott Chang | 2023/04/07 | HC-SR12   |
| Humidity (%RH)   |                                  | 58       |             |            |           |

Note: Test site information refers to Laboratory Information.

**Laboratory Information****USA : FCC Registration Number: TW3024****Canada : CAB identifier : TW3024**

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our

Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

|                                                                                                                                                |                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Laboratory                                                                                                                                | DEKRA Testing and Certification Co., Ltd.                                                                                                                                                    |
| Address                                                                                                                                        | 1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County<br>31061, Taiwan, R.O.C.<br>2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County<br>31061, Taiwan, R.O.C. |
| Phone number                                                                                                                                   | 1. +886-3-582-8001<br>2. +886-3-582-8001                                                                                                                                                     |
| Fax number                                                                                                                                     | 1. +886-3-582-8958<br>2. +886-3-582-8958                                                                                                                                                     |
| Email address                                                                                                                                  | <a href="mailto:info.tw@dekra.com">info.tw@dekra.com</a>                                                                                                                                     |
| Website                                                                                                                                        | <a href="http://www.dekra.com.tw">http://www.dekra.com.tw</a>                                                                                                                                |
| Note: Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12. |                                                                                                                                                                                              |

## 1.8. List of Test Equipment

### HC-SR02

| Instrument               | Manufacturer | Model No.             | Serial No. | Cal. Date  | Next Cal. Date |
|--------------------------|--------------|-----------------------|------------|------------|----------------|
| Artificial Mains Network | R&S          | ENV4200               | 848411/010 | 2022/12/19 | 2023/12/18     |
| EMI Test Receiver        | R&S          | ESR3                  | 102608     | 2022/09/28 | 2023/09/27     |
| Two-Line V-Network       | R&S          | ENV216                | 100096     | 2022/05/17 | 2023/05/16     |
| Coaxial Cable(9 m)       | Harbour      | RG-400                | HC-SR02    | 2022/08/15 | 2023/08/14     |
| EMI Testing System       | AUDIX        | e3 210616<br>dekra V9 | HC-SR02    | N/A        | N/A            |

### HC-SR12

| Instrument                                | Manufacturer | Model No. | Serial No. | Cal. Date  | Next Cal. Date |
|-------------------------------------------|--------------|-----------|------------|------------|----------------|
| High Speed Peak Power<br>Meter Dual Input | Anritsu      | ML2496A   | 1602004    | 2022/11/02 | 2023/11/01     |
| Pulse Power Sensor                        | Anritsu      | MA2411B   | 1531043    | 2022/11/02 | 2023/11/01     |
| Pulse Power Sensor                        | Anritsu      | MA2411B   | 1531044    | 2022/11/02 | 2023/11/01     |
| Signal and Spectrum Analyzer              | R&S          | FSVA40    | 101435     | 2022/05/30 | 2023/05/29     |

### HC-CB04

| Instrument                 | Manufacturer  | Model No.    | Serial No.  | Cal. Date  | Next Cal. Date |
|----------------------------|---------------|--------------|-------------|------------|----------------|
| Signal Analyzer            | R&S           | FSVA40       | 101455      | 2022/09/29 | 2023/09/28     |
| Trilog Broadband Antenna   | Schwarzbeck   | VULB 9168    | 1209        | 2022/06/14 | 2023/06/13     |
| Double Ridged Horn Antenna | RF SPIN       | DRH18-E      | 211212A18EN | 2022/11/15 | 2023/11/14     |
| Horn Antenna               | Schwarzbeck   | BBHA 9170    | 203         | 2023/02/13 | 2024/02/12     |
| Pre-Amplifier              | EMCI          | EMC01820I    | 980364      | 2022/06/10 | 2023/06/09     |
| Pre-Amplifier              | EMEC          | EM01G18GA    | 060835      | 2022/07/04 | 2023/07/03     |
| Pre-Amplifier              | DEKRA         | AP-400C      | 201801231   | 2022/09/27 | 2023/09/26     |
| EMI Test Receiver          | R&S           | ESR7         | 102260      | 2022/12/01 | 2023/11/30     |
| Magnetic Loop Antenna      | Teseq         | HLA 6121     | 44287       | 2022/10/21 | 2023/10/20     |
| Coaxial Cable(10m)         | Suhner        | SF102_SF104  | HC-CB04     | 2022/08/08 | 2023/08/07     |
| Coaxial Cable(3m)          | Suhner,RosnoI | SF102_UP0264 | HC-CB04_1   | 2022/08/14 | 2023/08/13     |
| Radiated Software          | AUDIX         | e3 V9        | HC-CB04_1   | N/A        | N/A            |

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

## 1.9. Measurement Uncertainty

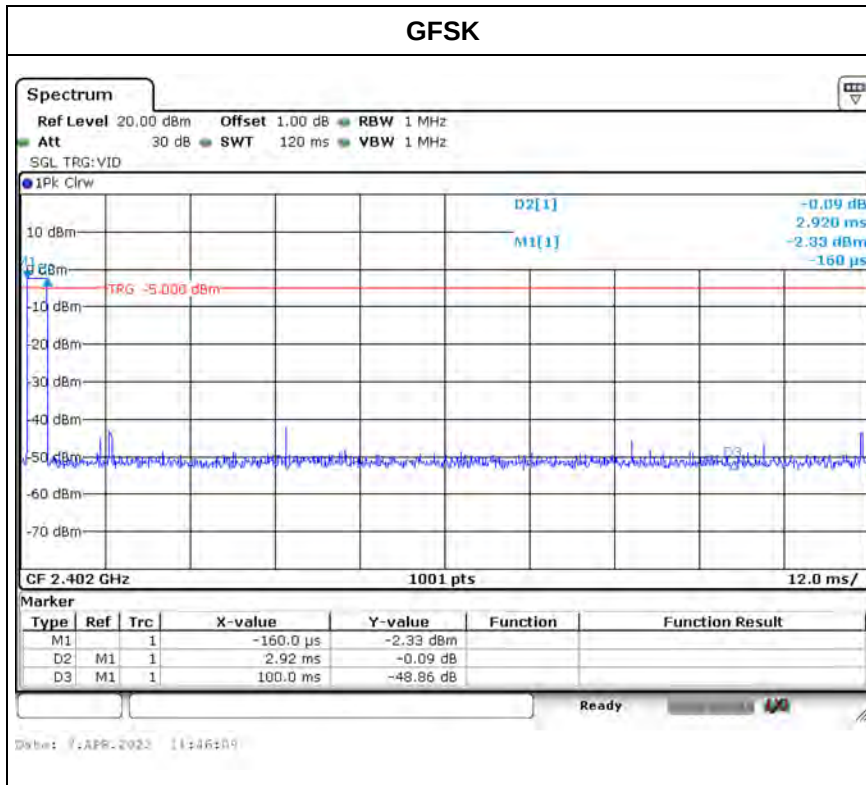
Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ )).

| Test item                        | Uncertainty                                            |
|----------------------------------|--------------------------------------------------------|
| AC Power Line Conducted Emission | $\pm 2.34$ dB                                          |
| Maximum Conducted Output Power   | $\pm 1.16$ dB                                          |
| Radiated Emission                | $\pm 3.52$ dB below 1 GHz<br>$\pm 3.56$ dB above 1 GHz |
| Antenna Port Conducted Emission  | $\pm 2.47$ dB                                          |
| Radiated Emission Band Edge      | $\pm 3.56$ dB                                          |
| Number of Hopping Frequency      | N/A                                                    |
| Carrier Frequency Separation     | $\pm 282.55$ Hz                                        |
| 20dB Bandwidth                   | $\pm 282.55$ Hz                                        |
| Dwell Time                       | $\pm 19.555$ msec                                      |

### 1.10. Duty Cycle

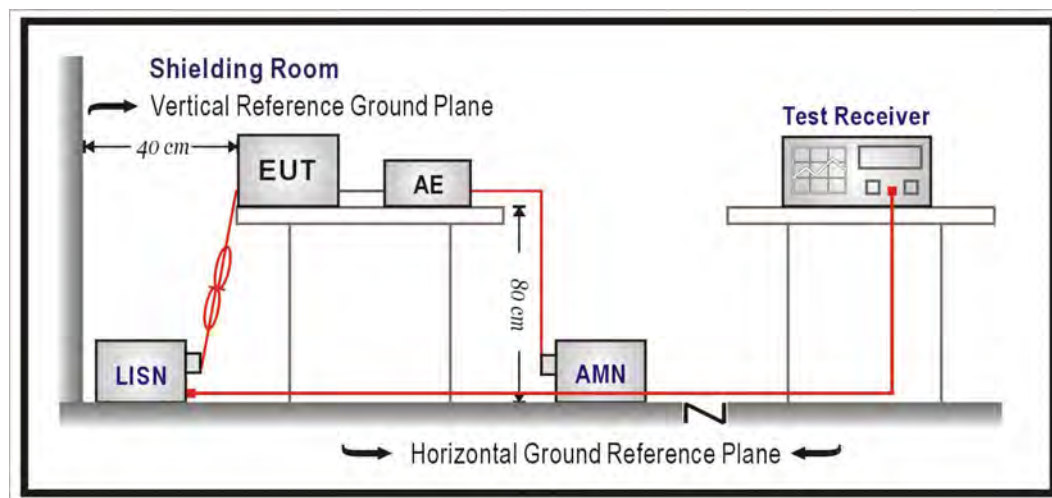
| Modulation | On Times<br>(ms) | On+Off Times<br>(ms) | Duty Cycle<br>(%) | Duty Cycle Correction Factor<br>(dB) |
|------------|------------------|----------------------|-------------------|--------------------------------------|
| GFSK       | 2.92             | 100                  | 2.92              | -30.69                               |

Note: If the duty cycle correction factor lower than -20dB, the Max. duty cycle correction factor is -20dB.



## 2. AC Power Line Conducted Emission

### 2.1. Test Setup



### 2.2. Test Limit

| Frequency (MHz) | QP (dBuV) | AV (dBuV) |
|-----------------|-----------|-----------|
| 0.15 - 0.50     | 66 - 56   | 56 - 46   |
| 0.50 - 5.0      | 56        | 46        |
| 5.0 - 30        | 60        | 50        |

Remarks: In the above table, the tighter limit applies at the band edges.

### 2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50 ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

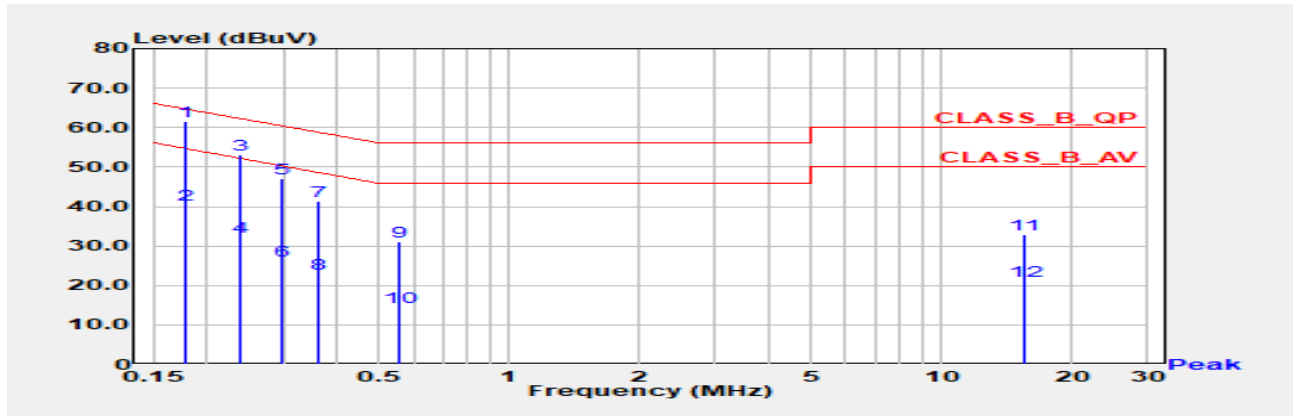
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

### 2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207.

## 2.5. Test Result of AC Power Line Conducted Emission

|                |                  |       |      |
|----------------|------------------|-------|------|
| Test Mode      | Mode 1: Transmit | Phase | Line |
| Test Condition | GFSK / 2402 MHz  |       |      |

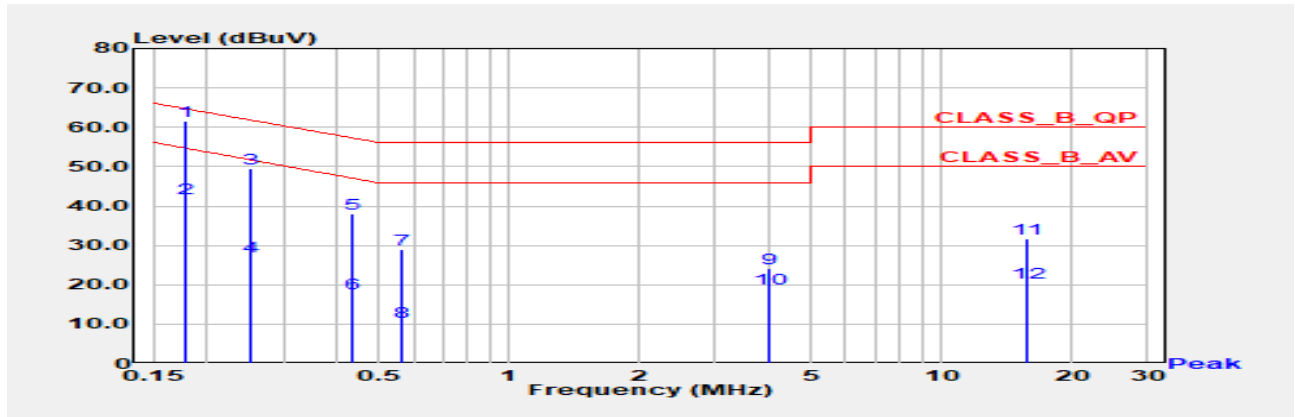


| No | Frequency (MHz) | Emission Level (dBUV) | Limit (dBUV) | Margin (dB) | Reading Level (dBUV) | Correct Factor (dB) | Detector Type |
|----|-----------------|-----------------------|--------------|-------------|----------------------|---------------------|---------------|
| *1 | 0.177           | 61.56                 | 64.63        | -3.07       | 51.94                | 9.62                | QP            |
| 2  | 0.177           | 40.57                 | 54.63        | -14.06      | 30.95                | 9.62                | AV            |
| 3  | 0.238           | 53.18                 | 62.17        | -8.99       | 43.56                | 9.62                | QP            |
| 4  | 0.238           | 32.27                 | 52.17        | -19.90      | 22.65                | 9.62                | AV            |
| 5  | 0.298           | 46.97                 | 60.28        | -13.31      | 37.34                | 9.63                | QP            |
| 6  | 0.298           | 26.16                 | 50.28        | -24.13      | 16.53                | 9.63                | AV            |
| 7  | 0.364           | 41.33                 | 58.64        | -17.32      | 31.69                | 9.64                | QP            |
| 8  | 0.364           | 22.94                 | 48.64        | -25.71      | 13.30                | 9.64                | AV            |
| 9  | 0.559           | 31.04                 | 56.00        | -24.96      | 21.38                | 9.66                | QP            |
| 10 | 0.559           | 14.63                 | 46.00        | -31.37      | 4.97                 | 9.66                | AV            |
| 11 | 15.560          | 32.88                 | 60.00        | -27.12      | 22.64                | 10.24               | QP            |
| 12 | 15.560          | 21.09                 | 50.00        | -28.91      | 10.84                | 10.24               | AV            |

Remark:

1. "\*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

|                |                  |       |         |
|----------------|------------------|-------|---------|
| Test Mode      | Mode 1: Transmit | Phase | Neutral |
| Test Condition | GFSK / 2402 MHz  |       |         |

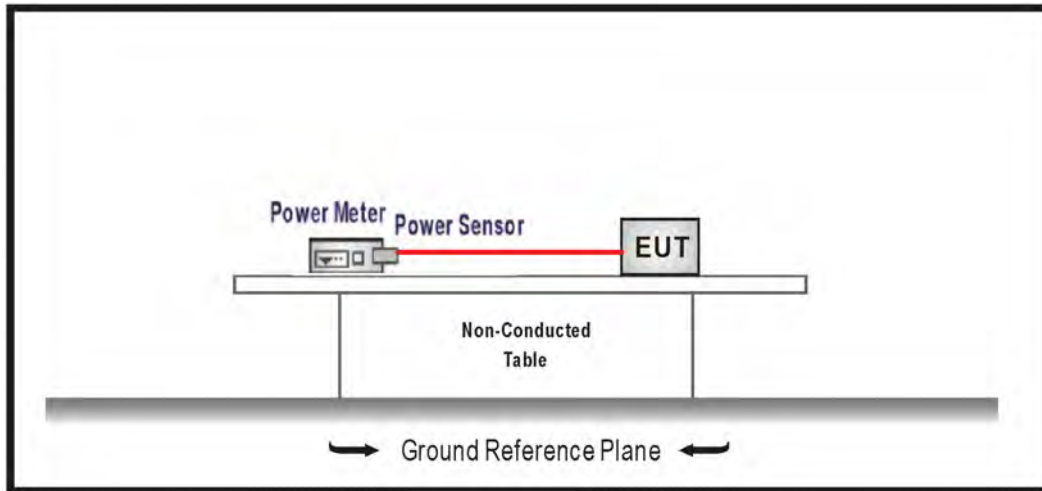


## Remark:

1. "\*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

### 3. Maximum Conducted Output Power

#### 3.1. Test Setup



#### 3.2. Test Limit

For frequency hopping systems operating in the 2400 ~ 2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725 ~ 5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400 ~ 2483.5 MHz band: 0.125 watts.

#### 3.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

#### 3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

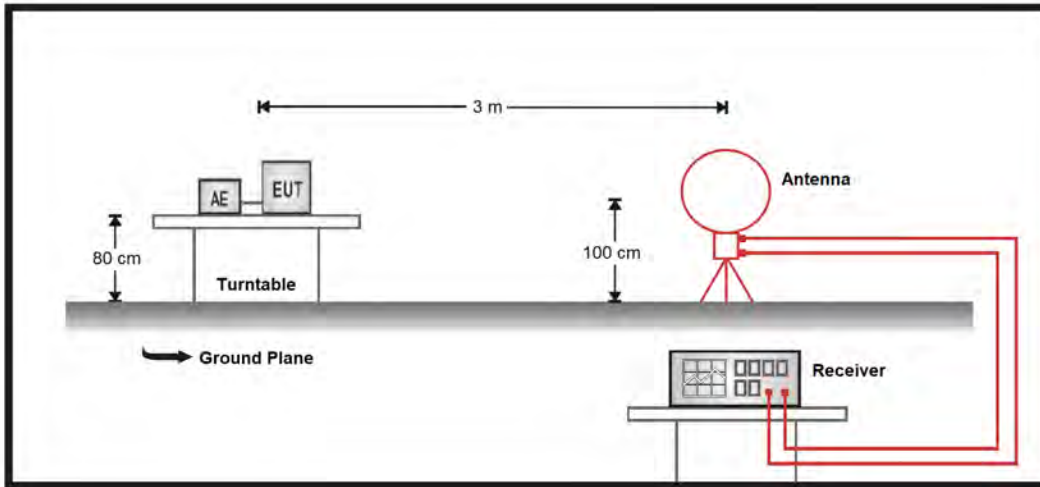
**3.5. Test Result of Maximum Conducted Output Power**

| Modulation | Channel | Frequency (MHz) | Measure Level (dBm) | Limit (dBm)  | Result |
|------------|---------|-----------------|---------------------|--------------|--------|
| GFSK       | 00      | 2402            | -1.49               | $\leq 20.97$ | Pass   |
|            | 39      | 2441            | -1.33               | $\leq 20.97$ | Pass   |
|            | 78      | 2480            | -1.32               | $\leq 20.97$ | Pass   |

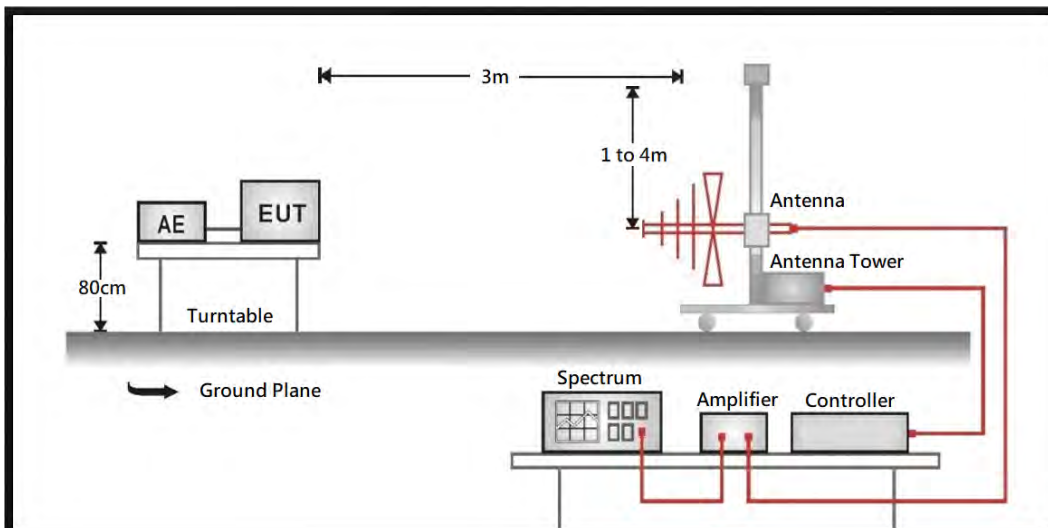
## 4. Radiated Emission

### 4.1. Test Setup

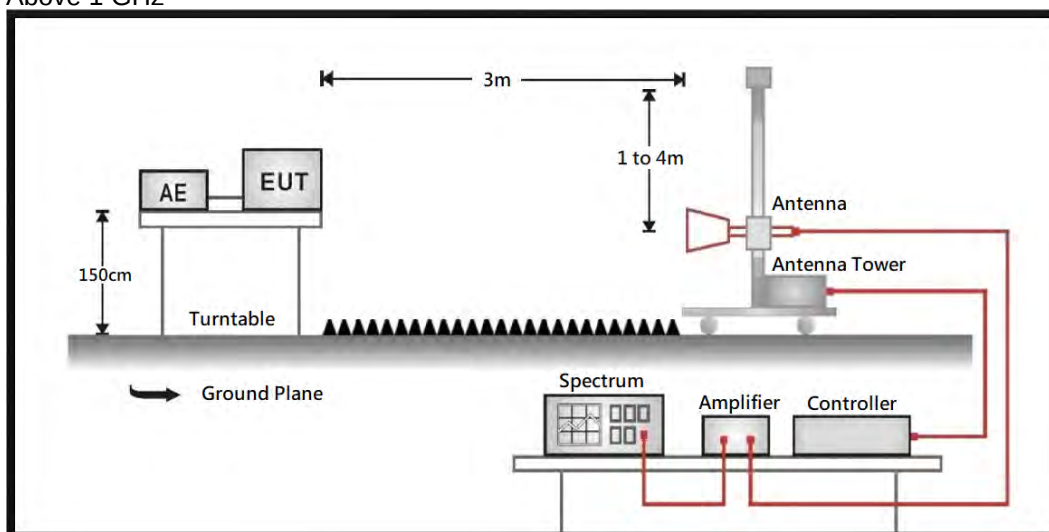
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



## 4.2. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

| Frequency (MHz) | Field strength (uV/m) | Field strength (dBuV/m)         | Measurement distance (m) |
|-----------------|-----------------------|---------------------------------|--------------------------|
| 0.009 – 0.490   | $2400/F(\text{kHz})$  | $20 \log (2400/F(\text{kHz}))$  | 300                      |
| 0.490 – 1.705   | $24000/F(\text{kHz})$ | $20 \log (24000/F(\text{kHz}))$ | 30                       |
| 1.705 - 30      | 30                    | 29.5                            | 30                       |
| 30 - 88         | 100                   | 40                              | 3                        |
| 88 - 216        | 150                   | 43.5                            | 3                        |
| 216 - 960       | 200                   | 46                              | 3                        |
| Above 960       | 500                   | 54                              | 3                        |

Remarks:

1. Field strength (dBuV/m) =  $20 \log$  Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

### 4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies from 9kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1MHz.

### 4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.