

Test Report No:  
2540096R-RFUSV01S-A

## TEST REPORT

### FCC Rules & Regulations

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Product Name                    | TOSIBOX 675 US                                                                       |
| Brand Name                      | TOSIBOX                                                                              |
| Model No.                       | TOSIBOX 675 US                                                                       |
| FCC ID                          | 2AHCNNODE675                                                                         |
| Contains FCC ID                 | XMR2022EG060KNA                                                                      |
| Applicant's Name / Address      | Tosibox Oy<br>Elektroniikkatie 2A, 90590 OULU Finland                                |
| Manufacturer's Name             | Tosibox Oy                                                                           |
| Test Method Requested, Standard | FCC CFR Title 47 Part 15 Subpart C Section 15.247                                    |
| Verdict Summary                 | IN COMPLIANCE                                                                        |
| Documented by Jinn Chen         |  |
| Tested by Daniel Wu             |   |
| Approved by Steven Tsai         |   |
| Date of Receipt                 | 2025/04/02                                                                           |
| Date of Issue                   | 2025/06/18                                                                           |
| Report Version                  | V1.0                                                                                 |

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## 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

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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 | 2025/06/18  |

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## Summary of Test Result

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| Report Clause | Test Items                          | Result (PASS/FAIL) | Remark |
|---------------|-------------------------------------|--------------------|--------|
| 3             | AC Power Line Conducted Emission    | PASS               | -      |
| 4             | 6 dB Bandwidth                      | PASS               | -      |
| 5             | Maximum Peak Conducted Output Power | PASS               | -      |
| 6             | Power Spectral Density              | PASS               | -      |
| 7             | Antenna Port Conducted Emission     | PASS               | -      |
| 8             | Radiated Emission                   | PASS               | -      |

### Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 1. General Information

### 1.1. EUT Description

|                                      |                           |                               |
|--------------------------------------|---------------------------|-------------------------------|
| Frequency Range                      | 2400 ~ 2483.5 MHz         |                               |
| Operating Frequency / Channel Number | IEEE 802.11b/g/n (20 MHz) | 2412 ~ 2462 MHz / 11 Channels |
| Type of Modulation                   | IEEE 802.11b              | DSSS-DBPSK, DQPSK, CCK        |
|                                      | IEEE 802.11g/n            | OFDM-BPSK, QPSK, 16QAM, 64QAM |

| Accessories Information |                                  |                                      |                    |                                                               |                                          |
|-------------------------|----------------------------------|--------------------------------------|--------------------|---------------------------------------------------------------|------------------------------------------|
| No.                     | Equipment Name                   | Brand Name                           | Model No.          | Rating                                                        | Remark                                   |
| 1                       | SWITCHING ADAPTER                | Shenzen Aquilstar Technology CO LTD. | ASSA13A-120150     | Input: AC 100-240V~0.6A<br>50-60Hz<br>Output: 12.0V1.5A 18.0W | With power cable :<br>Non-Shielded, 2.0m |
| No.                     | Equipment Name                   |                                      | Description        |                                                               |                                          |
| 2                       | DIN clip                         |                                      | -                  |                                                               |                                          |
| 3                       | POWER CABLE WITH 4-WAY OPEN WIRE |                                      | Non-Shielded, 1.0m |                                                               |                                          |

| Antenna Information |            |                 |        |                 |
|---------------------|------------|-----------------|--------|-----------------|
| Item.               | Brand Name | Part No.        | Type   | Gain (dBi)      |
| 1                   | Teltonika  | PR14RD35 (main) | Dipole | 2.76 for 2.4GHz |
|                     |            | PR14RD35 (aux)  |        | 2.76 for 2.4GHz |

|                        |      |
|------------------------|------|
| Directional Gain (dBi) | 5.77 |
|------------------------|------|

Note:

1. The above EUT information is declared by the manufacturer.
2. The antenna of EUT conforms to FCC 15.203.

**For 802.11b/g Mode: (1TX, 1RX) Diversity**

**For 802.11n Mode: (2TX, 2RX) MIMO**

## 1.2. EUT Information

|                      |                                     |                     |                                     |                     |
|----------------------|-------------------------------------|---------------------|-------------------------------------|---------------------|
| EUT Power Type       | From Adapter / DC 9-50 V / PoE      |                     |                                     |                     |
| EUT Function         | <input checked="" type="checkbox"/> | Point-to-multipoint | <input type="checkbox"/>            | Point-to-point      |
| Beamforming Function | <input type="checkbox"/>            | With beamforming    | <input checked="" type="checkbox"/> | Without beamforming |

## 1.3. Testing Location Information

|        |                                                       |
|--------|-------------------------------------------------------|
| USA    | FCC Designation Number: TW0033                        |
| Canada | CAB Identifier Number: TW3023 / Company Number: 26930 |

|                  |                         |
|------------------|-------------------------|
| Site Description | Accredited by TAF       |
|                  | Accredited Number: 3023 |

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Test Laboratory    | DEKRA Testing and Certification Co., Ltd.                                 |
|                    | Linkou Laboratory                                                         |
| Address            | No. 85, Wenlin St., Linkou Dist., New Taipei City 244017, Taiwan, R.O.C.  |
| Performed Location | No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C. |
| Phone Number       | +886-3-275-7255                                                           |
| Fax Number         | +886-3-327-8031                                                           |

Ambient conditions in the laboratory:

| Performed Item                   | Items            | Required | Actual  | Test Date             |
|----------------------------------|------------------|----------|---------|-----------------------|
| AC Power Line Conducted Emission | Temperature (°C) | 10~40 °C | 25.1 °C | 2025/05/27            |
|                                  | Humidity (%RH)   | 10~90 %  | 54.9 %  |                       |
| Radiated Emission                | Temperature (°C) | 10~40 °C | 24.1 °C | 2025/05/20~2025/05/22 |
|                                  | Humidity (%RH)   | 10~90 %  | 61.5 %  |                       |
| RF Conducted Emission            | Temperature (°C) | 10~40 °C | 24.3 °C | 2025/05/22            |
|                                  | Humidity (%RH)   | 10~90 %  | 64.6 %  |                       |

#### 1.4. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

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.

| Test Item                           | Uncertainty                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| AC Power Line Conducted Emission    | $\pm 3.50$ dB                                                                                                             |
| 6dB Bandwidth                       | $\pm 1580.61$ Hz                                                                                                          |
| Maximum Peak Conducted Output Power | Spectrum Analyzer: $\pm 2.13$ dB<br>Power Meter: $\pm 1.07$ dB                                                            |
| Power Spectral Density              | $\pm 2.13$ dB                                                                                                             |
| Antenna Port Conducted Emission     | $\pm 2.13$ dB                                                                                                             |
| Radiated Emission                   | 9 kHz~30 MHz: $\pm 3.30$ dB<br>30 MHz~1 GHz: $\pm 5.19$ dB<br>1 GHz~18 GHz: $\pm 4.46$ dB<br>18 GHz~40 GHz: $\pm 4.19$ dB |
| Duty Cycle                          | $\pm 0.62$ %                                                                                                              |

## 1.5. List of Test Equipment

### For Conduction Measurements / HY-SR01

|   | Equipment          | Manufacturer | Model No. | Serial No. | Cal. Date  | Due Date   |
|---|--------------------|--------------|-----------|------------|------------|------------|
| V | EMI Test Receiver  | R&S          | ESR7      | 101601     | 2024/06/24 | 2025/06/23 |
| V | Two-Line V-Network | R&S          | ENV216    | 101306     | 2024/04/01 | 2026/03/31 |
| V | Two-Line V-Network | R&S          | ENV216    | 101307     | 2023/08/17 | 2025/08/16 |
| V | Coaxial Cable      | SUHNER       | RG400_BNC | RF001      | 2025/01/10 | 2026/01/09 |

Note:

1. Two-Line V-Network is calibrated every two years, the other equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

### For Conducted Measurements / HY-SR02

|   | Equipment             | Manufacturer | Model No. | Serial No. | Cal. Date  | Due Date   |
|---|-----------------------|--------------|-----------|------------|------------|------------|
| V | Spectrum Analyzer     | R&S          | FSV30     | 103466     | 2024/12/18 | 2025/12/17 |
| V | Peak Power Analyzer   | KEYSIGHT     | 8990B     | MY51000539 | 2025/05/05 | 2026/05/04 |
| V | Wideband Power Sensor | KEYSIGHT     | N1923A    | MY59240002 | 2025/05/07 | 2026/05/06 |
| V | Wideband Power Sensor | KEYSIGHT     | N1923A    | MY59240003 | 2025/05/07 | 2026/05/06 |

Note:

1. All equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version : DTC\_RF\_Tool\_Release V100

### For Radiated Measurements /HY-CB02

|   | Equipment         | Manufacturer  | Model No.         | Serial No.   | Cal. Date  | Due Date   |
|---|-------------------|---------------|-------------------|--------------|------------|------------|
| V | Loop Antenna      | TESEQ         | HLA6121           | 49611        | 2025/02/18 | 2026/02/17 |
| V | Bi-Log Antenna    | SCHWARZBECK   | VULB9168          | 9168-0675    | 2023/08/09 | 2025/08/08 |
| V | Horn Antenna      | RF SPIN       | DRH18-E           | 210503A18ES  | 2024/02/29 | 2026/02/28 |
| V | Horn Antenna      | Com-Power     | AH-840            | 101101       | 2023/12/04 | 2025/12/03 |
| V | Pre-Amplifier     | SGH           | SGH0301           | 20230308-1   | 2025/02/06 | 2026/02/05 |
| V | Pre-Amplifier     | SGH           | SGH118-HS         | 20211102-1   | 2025/01/10 | 2026/01/09 |
| V | Pre-Amplifier     | EMCI          | EMC05820SE        | 980285       | 2025/01/10 | 2026/01/09 |
| V | Pre-Amplifier     | MICZEN        | MZLNA1850GAC40    | WB0103001    | 2025/01/10 | 2026/01/09 |
| V | Pre-Amplifier     | EMCI          | EMC184045SE       | 980369       | 2025/01/10 | 2026/01/09 |
| V | Coaxial Cable     | EMCI          | EMC102-KM-KM-600  | 1160311      | 2025/01/10 | 2026/01/09 |
| V | Coaxial Cable     | EMCI          | EMC102-KM-KM-7000 | 170242       | 2025/01/10 | 2026/01/09 |
| V | Filter            | MICRO TRONICS | BRM20887          | G002         | 2025/01/05 | 2026/01/04 |
|   | Filter            | MICRO TRONICS | BRM50716          | G067         | 2025/01/05 | 2026/01/04 |
| V | EMI Test Receiver | R&S           | ESR3              | 102793       | 2024/12/06 | 2025/12/05 |
| V | Spectrum Analyzer | R&S           | FSV3044           | 101113       | 2025/01/22 | 2026/01/21 |
| V | Coaxial Cable     | SGH           | HA800             | GD20110223-2 | 2025/01/10 | 2026/01/09 |
| V | Coaxial Cable     | SGH           | HA800             | GD20110222-4 | 2025/01/10 | 2026/01/09 |
| V | Coaxial Cable     | SGH           | SGH18             | 202108-5     | 2025/01/10 | 2026/01/09 |
| V | Coaxial Cable     | SGH           | SGH18             | 202212-2     | 2025/01/10 | 2026/01/09 |

Note:

1. Bi-Log Antenna and Horn Antenna are calibrated every two years, the other equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

## 2. Test Configuration of EUT

### 2.1. Test Condition

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

### 2.2. Test Frequency Mode

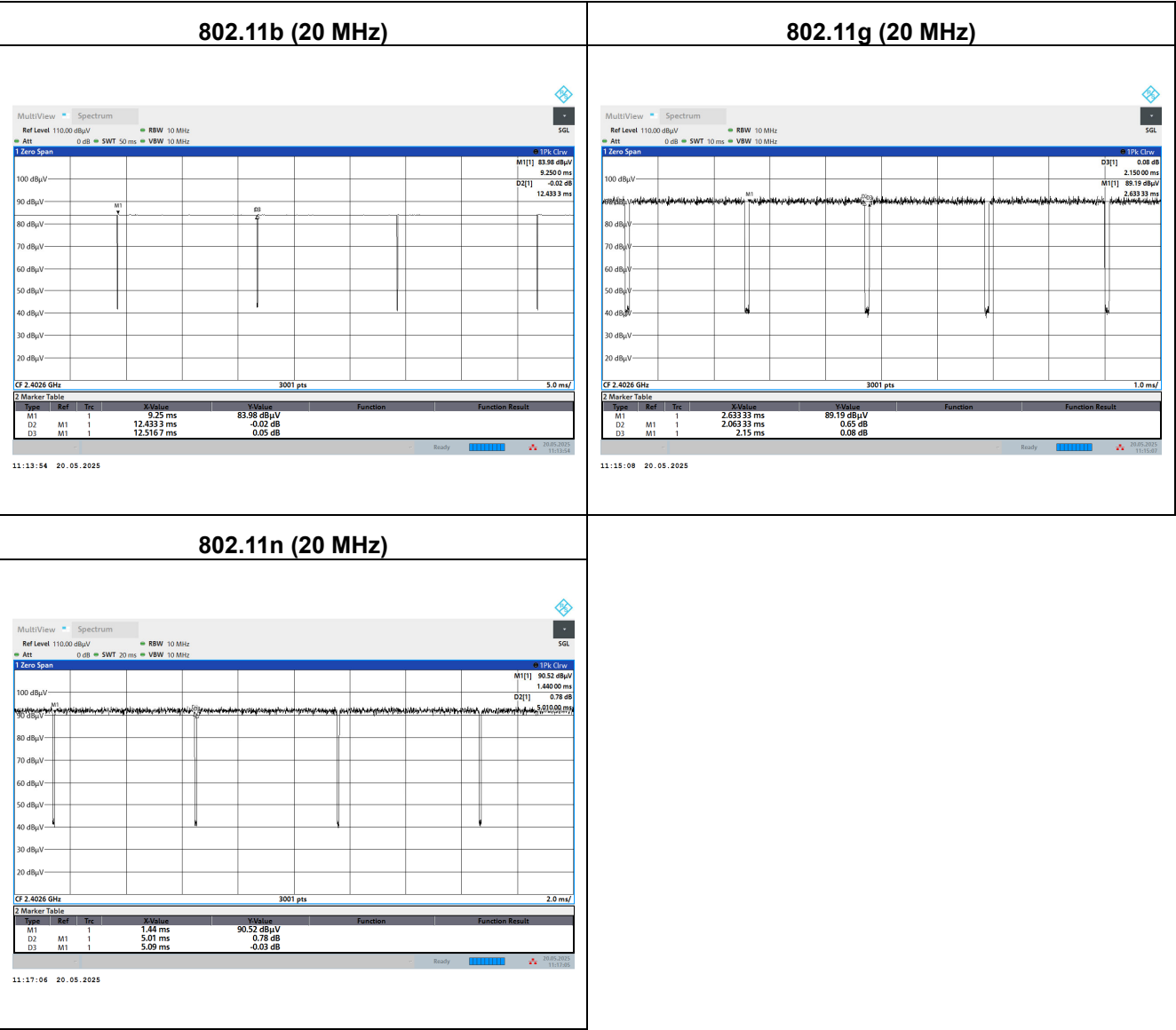
|                       |                          |
|-----------------------|--------------------------|
| Test Software Version | QRCT / Version 4.0.00075 |
|-----------------------|--------------------------|

Parameters of test software setting

| Modulation       | Frequency (MHz) | Power Setting |
|------------------|-----------------|---------------|
| 802.11b (20 MHz) | 2412            | 22            |
|                  | 2437            | 24            |
|                  | 2462            | 21.5          |
| 802.11g (20 MHz) | 2412            | 17            |
|                  | 2437            | 22.5          |
|                  | 2462            | 17            |
| 802.11n (20 MHz) | 2412            | 15            |
|                  | 2437            | 22.5          |
|                  | 2462            | 16            |

2.3. Duty Cycle

| Modulation       | On Times (ms) | On+Off Times (ms) | Duty Cycle (%) | Duty Factor (dB) | VBW (Hz) |
|------------------|---------------|-------------------|----------------|------------------|----------|
| 802.11b (20 MHz) | 12.4333       | 12.5167           | 99.33          | 0.03             | 10       |
| 802.11g (20 MHz) | 2.06333       | 2.15000           | 95.97          | 0.18             | 500      |
| 802.11n (20 MHz) | 5.0100        | 5.0900            | 98.43          | 0.07             | 10       |



## 2.4. Measurement Configuration

|           |                   |                  |
|-----------|-------------------|------------------|
| Test Mode | Mode 1 (Transmit) | 802.11b (20 MHz) |
|           |                   | 802.11g (20 MHz) |
|           |                   | 802.11n (20 MHz) |

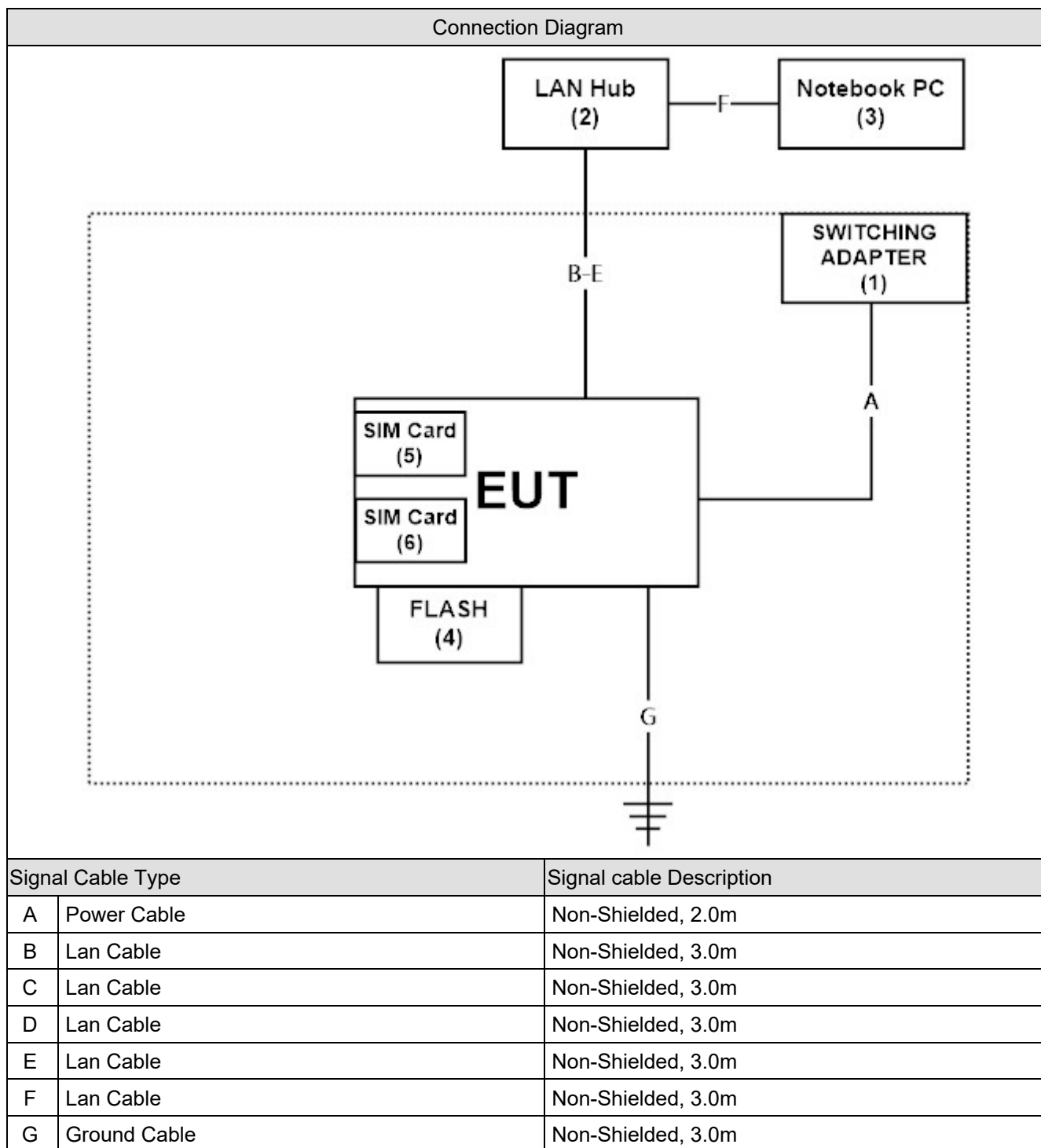
Note:

1. Determining compliance shall be based on the results of the compliance measurement, without taking measurement instrumentation uncertainty into account.
2. For radiated emissions below 1 GHz and AC power line conducted emissions, all modes of operation were investigated, and the worst-case emissions are reported.
3. Lowest data rates are tested in each mode. Only worst case is shown in the report.  
(802.11b is 1Mbps, 802.11g is 6Mbps, 802.11n is HT8)
4. Each mode has been evaluated. Only the worst case is shown in the report.

**2.5. Tested System Details**

| No. | Equipment         | Brand Name                            | Model No.             | Serial No.    | Power Cord         |
|-----|-------------------|---------------------------------------|-----------------------|---------------|--------------------|
| 1   | SWITCHING ADAPTER | Shenzhen Aquilstar Technology CO.,LTD | ASSA13A-120150        | N/A           | N/A                |
| 2   | LAN Hub           | TP-LINK                               | TL-SG108              | 2161597000471 | Non-Shielded, 1.5m |
| 3   | Notebook PC       | Lenovo                                | TP00067C              | PF-0EW24F     | N/A                |
| 4   | FLASH             | SanDisk                               | 16GB Ultra Flair CZ73 | N/A           | N/A                |
| 5   | SIM Card          | R&S                                   | CMW-Z06               | N/A           | N/A                |
| 6   | SIM Card          | R&S                                   | CMX-Z01               | N/A           | N/A                |

## 2.6. Configuration of Tested System



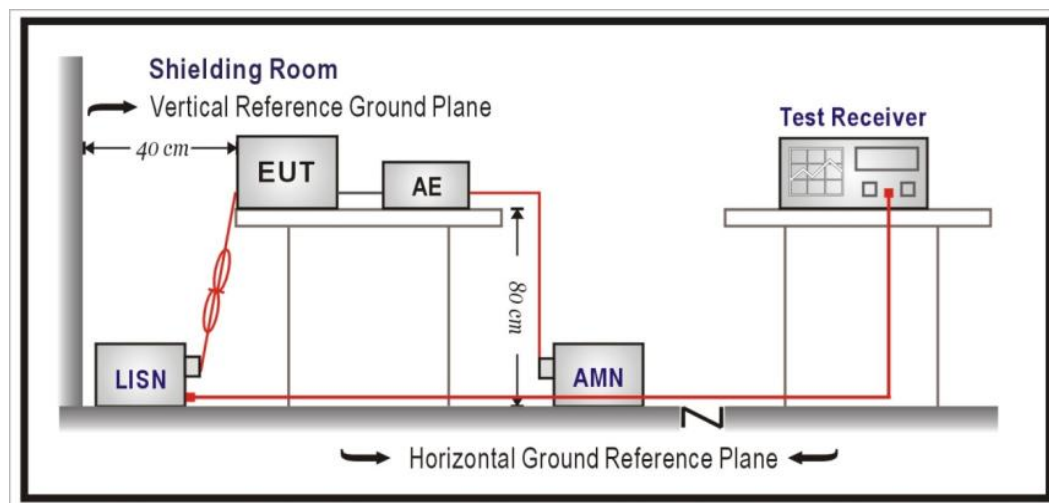
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**2.7. EUT Operating Procedures**

|   |                                                                 |
|---|-----------------------------------------------------------------|
| 1 | Setup the EUT as shown in Section 2.6.                          |
| 2 | Execute software “QRCT / Version 4.0.00075” on the Notebook PC. |
| 3 | Configure the test mode, the test channel, and the data rate.   |
| 4 | Verify that the EUT works properly.                             |

### 3. AC Power Line Conducted Emission

#### 3.1. Test Setup



#### 3.2. 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.

#### 3.3. Test Procedure

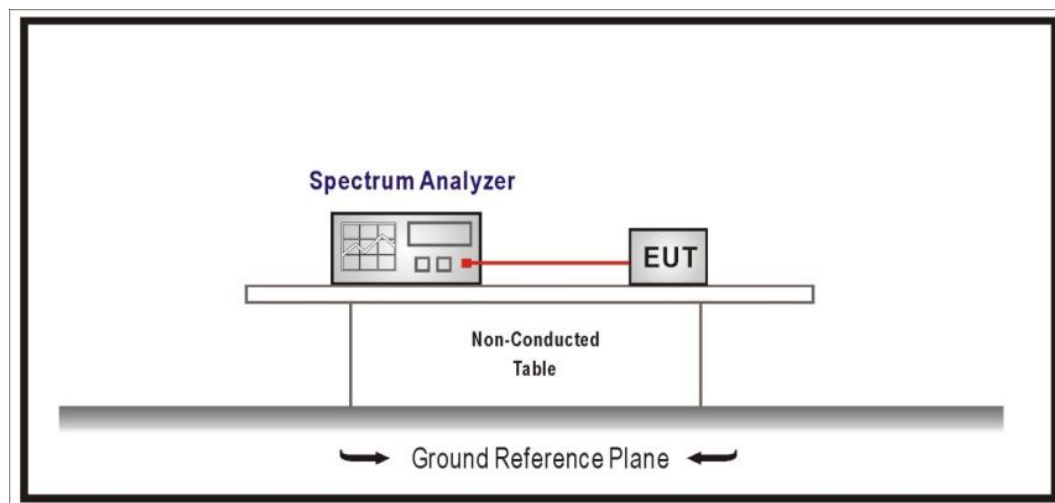
The EUT was setup according to ANSI C63.10-2020 for AC Power Line Conducted Emissions.

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

Refer as Appendix A

## 4. 6 dB Bandwidth

### 4.1. Test Setup



### 4.2. Test Limit

The 6 dB bandwidth:  $\geq 500$  kHz.

### 4.3. Test Procedures

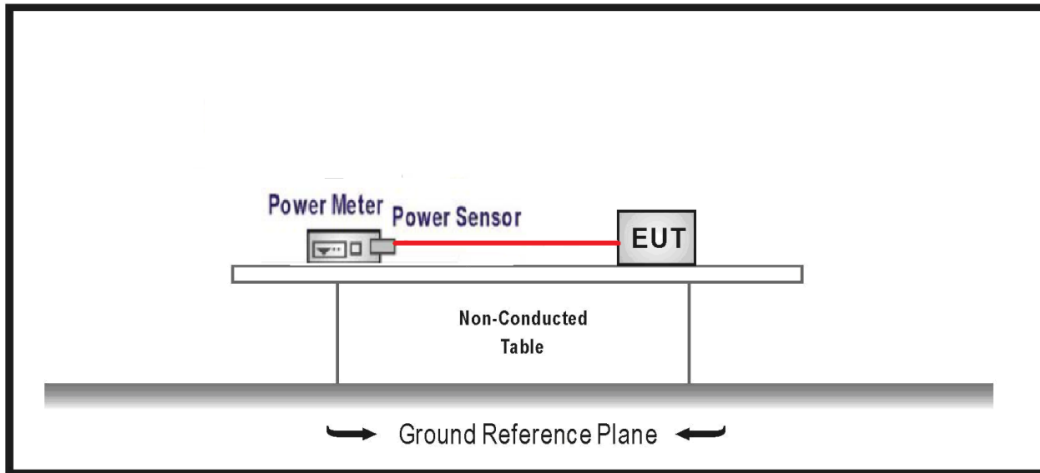
The EUT was setup according to ANSI C63.10-2020; tested according to DTS test procedure of KDB 558074.

### 4.4. Test Result of 6dB Bandwidth

Refer as Appendix B

## 5. Maximum Peak Conducted Output Power

### 5.1. Test Setup



### 5.2. Test Limit

The Maximum Peak Conducted Output Power shall be less 30 dBm (1 Watt).

### 5.3. Test Procedures

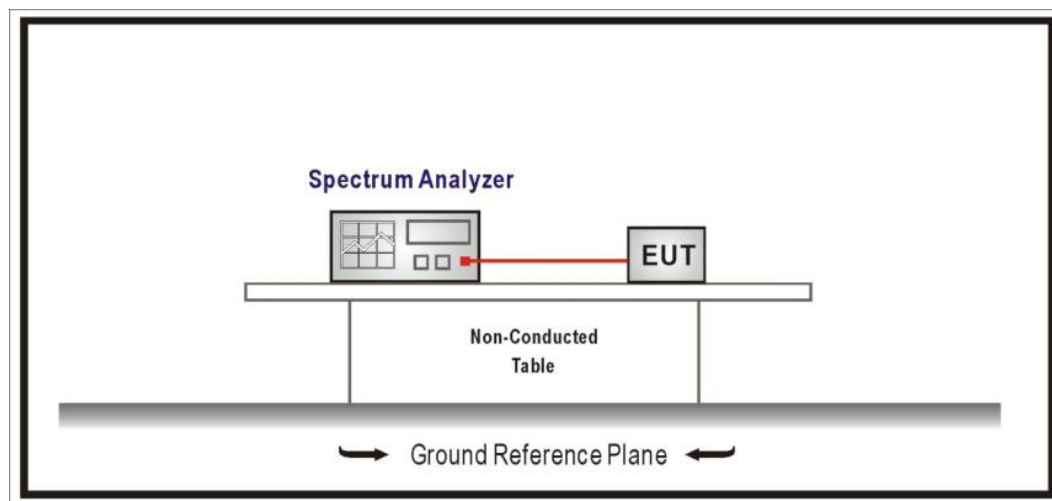
The EUT was setup according to ANSI C63.10-2020; tested according to DTS test procedure of KDB 558074.

### 5.4. Test Result of Maximum Peak Conducted Output Power

Refer as Appendix C

## 6. Power Spectral Density

### 6.1. Test Setup



### 6.2. Test Limit

The power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 6.3. Test Procedures

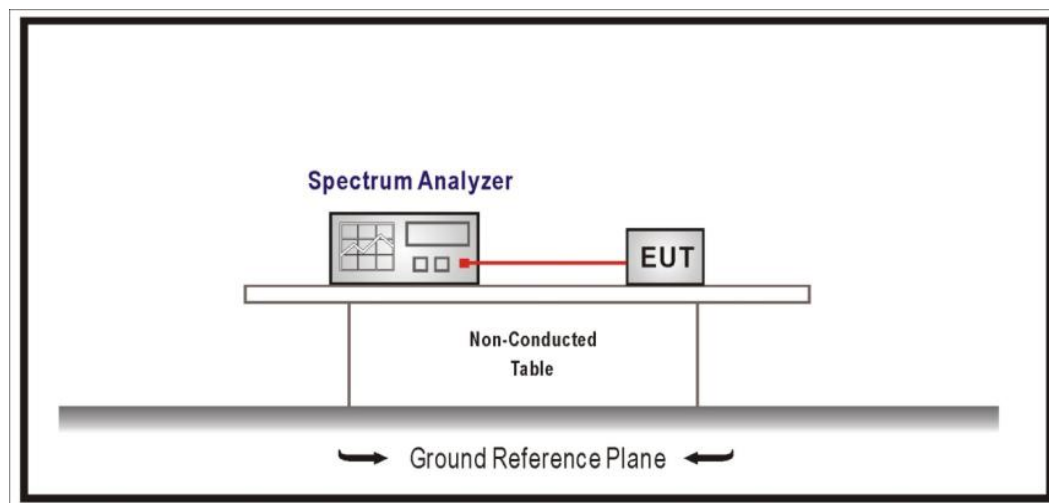
The EUT was setup according to ANSI C63.10-2020; tested according to DTS test procedure of KDB 558074.

### 6.4. Test Result of Power Spectral Density

Refer as Appendix D

## 7. Antenna Port Conducted Emission

### 7.1. Test Setup



### 7.2. Test Limit

| RF output power procedure      | Limit (dBc) |
|--------------------------------|-------------|
| Peak output power procedure    | 20          |
| Average output power procedure | 30          |

Remarks:

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.
2. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

### 7.3. Test Procedure

The EUT was setup according to ANSI C63.10-2020 and tested according to DTS test procedure of KDB 558074.

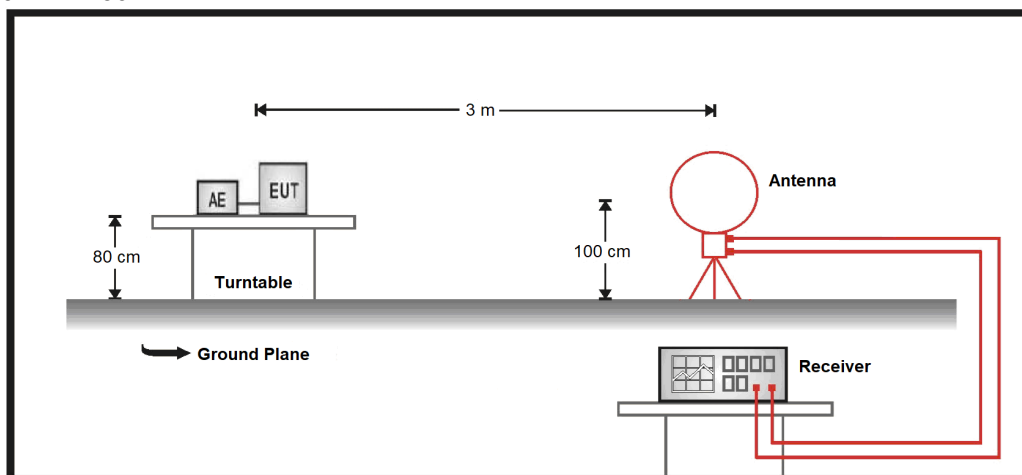
### 7.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix E

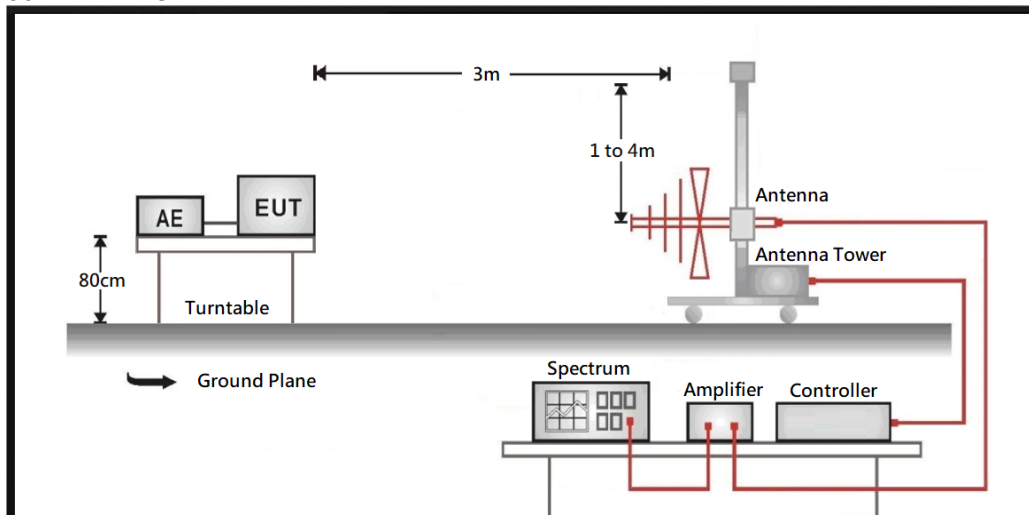
## 8. Radiated Emission

### 8.1. Test Setup

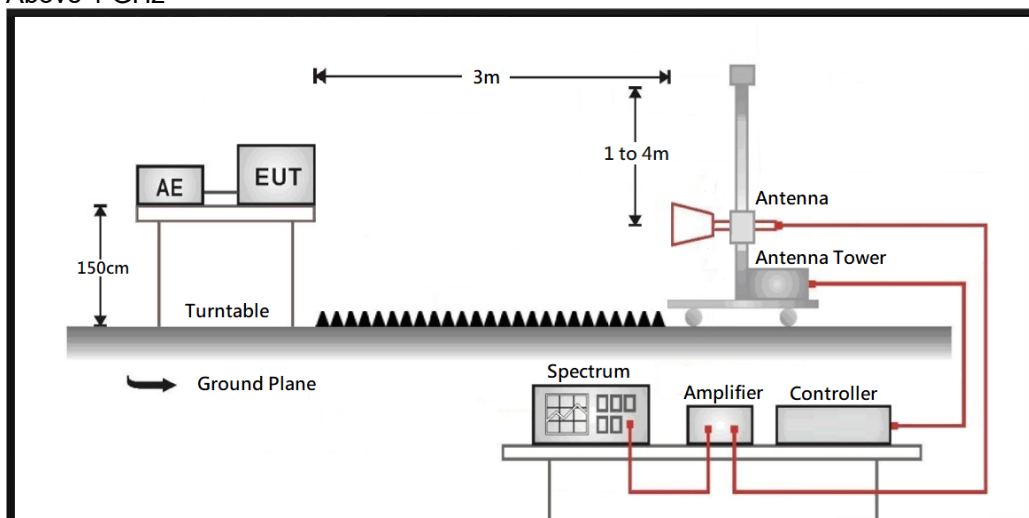
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



## 8.2. Test Limit

| Frequency (MHz) | Field strength (uV/m) | Field strength (dBuV/m) | Measurement distance (m) |
|-----------------|-----------------------|-------------------------|--------------------------|
| 0.009 – 0.490   | 2400/F(kHz)           | 20 log (2400/F(kHz))    | 300                      |
| 0.490 – 1.705   | 24000/F(kHz)          | 20 log (24000/F(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.

## 8.3. Test Procedure

The EUT was setup according to ANSI C63.10-2020 and tested according to DTS test procedure of KDB 558074.

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 C63.10-2020 on radiated measurement.

On any frequency or frequencies from 9 kHz(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 1 MHz.

## 8.4. Test Result of Radiated Emission

Refer as Appendix F