

# FCC Part 18 Test Report

## FCC ID: 2A6FA-K02

**Report No.** : TBR-C-202203-0295-2  
**Applicant** : Shenzhen DEXINLY Technology Co., Ltd.  
**Equipment Under Test (EUT)**  
**EUT Name** : Multifunctionalportable power bank  
**Model No.** : K02  
**Series Model No.** : K02-Pro  
**Brand Name** : DEXINLY  
**Receipt Date** : 2022-04-15  
**Test Date** : 2022-04-15 to 2022-05-10  
**Issue Date** : 2022-05-10  
**Standards** : FCC 47 CFR Part 18  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above.

**Test/Witness Engineer** :

*Camille Li*

Camille Li

**Engineer Supervisor** :

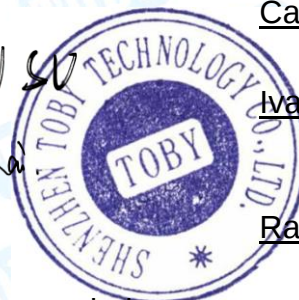
*IVAN SU*

Ivan Su

**Engineer Manager** :

*Ray Lai*

Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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## Revision History

| Report No.          | Version | Description             | Issued Date |
|---------------------|---------|-------------------------|-------------|
| TBR-C-202203-0295-2 | Rev.01  | Initial issue of report | 2022-05-10  |
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|                     |         |                         |             |

## 1. General Information

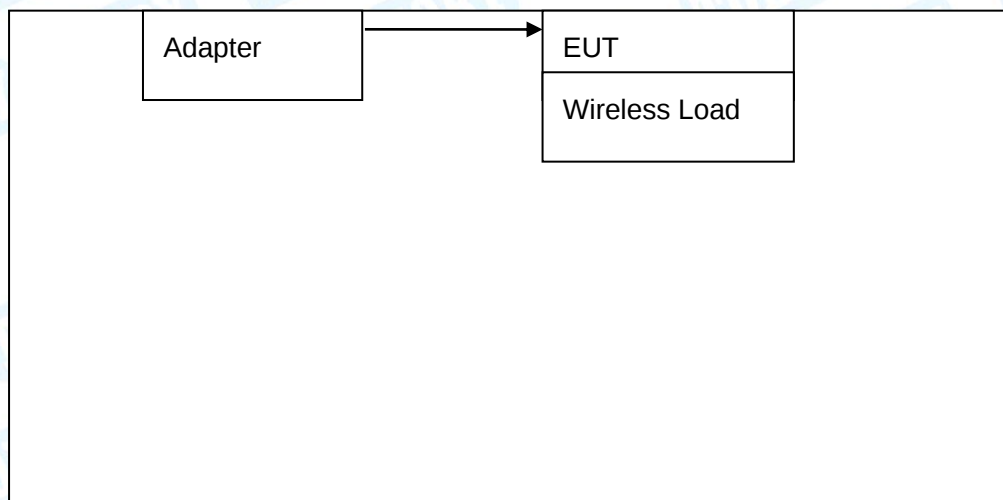
### 1.1 Client Information

|                     |   |                                                                                             |
|---------------------|---|---------------------------------------------------------------------------------------------|
| <b>Applicant</b>    | : | Shenzhen DEXINLY Technology Co., Ltd.                                                       |
| <b>Address</b>      | : | A2411, Fengling International Center, No. 1 Jixiang Middle Road, Longgang, Shenzhen, China. |
| <b>Manufacturer</b> | : | Shenzhen DEXINLY Technology Co., Ltd.                                                       |
| <b>Address</b>      | : | A2411, Fengling International Center, No. 1 Jixiang Middle Road, Longgang, Shenzhen, China. |

### 1.2 General Description of EUT (Equipment Under Test)

|                               |   |                                                                                                                            |               |
|-------------------------------|---|----------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>EUT Name</b>               | : | Multifunctionalportable power bank                                                                                         |               |
| <b>Models No.</b>             | : | K02, K02-Pro                                                                                                               |               |
| <b>Model Difference</b>       | : | All PCB boards and circuit diagrams are the same, the only difference is that names.                                       |               |
| <b>Product Description</b>    | : | Operation Frequency:                                                                                                       | 110KHz-205KHz |
|                               |   | Modulation Type:                                                                                                           | FSK           |
|                               |   | Antenna:                                                                                                                   | Coil Antenna  |
| <b>Power Rating</b>           | : | TYPE-C Output: DC 5V/2A<br>Wireless Charging: 15W(Max)                                                                     |               |
| <b>Connecting I/O Port(S)</b> | : | Please refer to the User's Manual                                                                                          |               |
| <b>Remark</b>                 | : | The antenna gain provided by the applicant, the verified for the RF conduction test and adapter provided by TOBY test lab. |               |

### 1.3 Block Diagram Showing The Configuration of System Tested



### 1.4 Description of Support Units

| Equipment Information                                       |               |              |              |          |
|-------------------------------------------------------------|---------------|--------------|--------------|----------|
| Name                                                        | Model         | S/N          | Manufacturer | Used “√” |
| Adapter                                                     | ----          | ----         | HUAWEI       | √        |
| Wireless Load                                               | ----          | ----         | ----         | √        |
| Cable Information                                           |               |              |              |          |
| Number                                                      | Shielded Type | Ferrite Core | Length       | Note     |
| ----                                                        | ----          | ----         | ----         |          |
| Remark: The adapter and Load provided by the TOBY test lab. |               |              |              |          |

## 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

| Test Modes:                                                                               |                                               |            |
|-------------------------------------------------------------------------------------------|-----------------------------------------------|------------|
| Mode 1                                                                                    | AC Mode: EUT+Load (Battery Status: <1%)       | Record     |
| Mode 2                                                                                    | AC Mode: EUT+Load (Battery Status: <50%)      | Pre-tested |
| Mode 3                                                                                    | AC Mode: EUT+Load (Battery Status: 99%)       | Pre-tested |
| Mode 4                                                                                    | Battery mode: EUT+Load (Battery Status: <1%)  | Pre-tested |
| Mode 5                                                                                    | Battery mode: EUT+Load (Battery Status: <50%) | Pre-tested |
| Mode 6                                                                                    | Battery mode: EUT+Load (Battery Status: 99%)  | Pre-tested |
| Note: All test modes were pre-tested, but we only recorded the worst case in this report. |                                               |            |

### Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.  
According to ANSI C63.10 standards, All test modes were pre-tested, but we only recorded the worst case in this report.
- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

## 1.6 Test Location

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

### CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01. FCC Accredited Test Site Number: 854351.

### IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.

## 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| Test               | Parameters                                        | Expanded Uncertainty ( $U_{Lab}$ ) | Expanded Uncertainty ( $U_{Cispr}$ ) |
|--------------------|---------------------------------------------------|------------------------------------|--------------------------------------|
| Conducted Emission | Level Accuracy:<br>9kHz~150kHz<br>150kHz to 30MHz | $\pm 3.50$ dB<br>$\pm 3.10$ dB     | $\pm 4.0$ dB<br>$\pm 3.6$ dB         |
| Radiated Emission  | Level Accuracy:<br>Above 1000MHz                  | $\pm 4.50$ dB                      | N/A                                  |
| Radiated Emission  | Level Accuracy:<br>30MHz to 1000 MHz              | $\pm 4.40$ dB                      | $\pm 5.2$ dB                         |

## 2. Test Summary

| Standard Section                                        | Test Item                               | Test Method       | Judgment |
|---------------------------------------------------------|-----------------------------------------|-------------------|----------|
| 18.305                                                  | Radiated Emission<br>(9KHz to 1GHz)     | FCC OST/MP-5:1986 | PASS     |
| 18.307(b)                                               | Conducted Emission<br>(150KHz to 30MHz) | FCC OST/MP-5:1986 | PASS     |
| <b>Note:</b> N/A is an abbreviation for Not Applicable. |                                         |                   |          |

## 3. Test Software

| Test Item          | Test Software | Manufacturer | Version No. |
|--------------------|---------------|--------------|-------------|
| Conducted Emission | EZ-EMC        | EZ           | CDI-03A2    |
| Radiation Emission | EZ-EMC        | EZ           | FA-03A2RE   |

## 4. Test Equipment Used

| Conducted Emission Test |                                  |             |            |               |               |
|-------------------------|----------------------------------|-------------|------------|---------------|---------------|
| Equipment               | Manufacturer                     | Model No.   | Serial No. | Last Cal.     | Cal.Due Date  |
| EMI Test Receiver       | Rohde & Schwarz                  | ESCI        | 100321     | Jul. 05, 2021 | Jul. 04, 2022 |
| RF Switching Unit       | Compliance Direction Systems Inc | RSU-A4      | 34403      | Jul. 05, 2021 | Jul. 04, 2022 |
| AMN                     | SCHWARZBECK                      | NNBL 8226-2 | 8226-2/164 | Jul. 05, 2021 | Jul. 04, 2022 |
| LISN                    | Rohde & Schwarz                  | ENV216      | 101131     | Jul. 05, 2021 | Jul. 04, 2022 |
| Radiation Emission Test |                                  |             |            |               |               |
| Equipment               | Manufacturer                     | Model No.   | Serial No. | Last Cal.     | Cal.Due Date  |
| Spectrum Analyzer       | Agilent                          | E4407B      | MY45106456 | Jul. 05, 2021 | Jul. 04, 2022 |
| EMI Test Receiver       | Rohde & Schwarz                  | ESCI        | 101165     | Jul. 05, 2021 | Jul. 04, 2022 |
| Bilog Antenna           | ETS-LINDGREN                     | 3142E       | 00117537   | Feb. 28, 2022 | Feb. 27, 2024 |
| Horn Antenna            | ETS-LINDGREN                     | 3117        | 00143207   | Feb. 28, 2022 | Feb. 27, 2024 |
| Loop Antenna            | SCHWARZBECK                      | FMZB 1519 B | 1519B-059  | Jul. 06, 2021 | Jul. 05, 2022 |
| Pre-amplifier           | Sonoma                           | 310N        | 185903     | Feb. 24, 2022 | Feb. 23, 2023 |
| Pre-amplifier           | HP                               | 8449B       | 3008A00849 | Feb. 24, 2022 | Feb. 23, 2023 |
| Cable                   | HUBER+SUHNER                     | 100         | SUCOFLEX   | Feb. 24, 2022 | Feb. 23, 2023 |
| Positioning Controller  | ETS-LINDGREN                     | 2090        | N/A        | N/A           | N/A           |

## 5. Conducted Emission Test

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

FCC Part 18.307(b)

#### 5.1.2 Test Limit

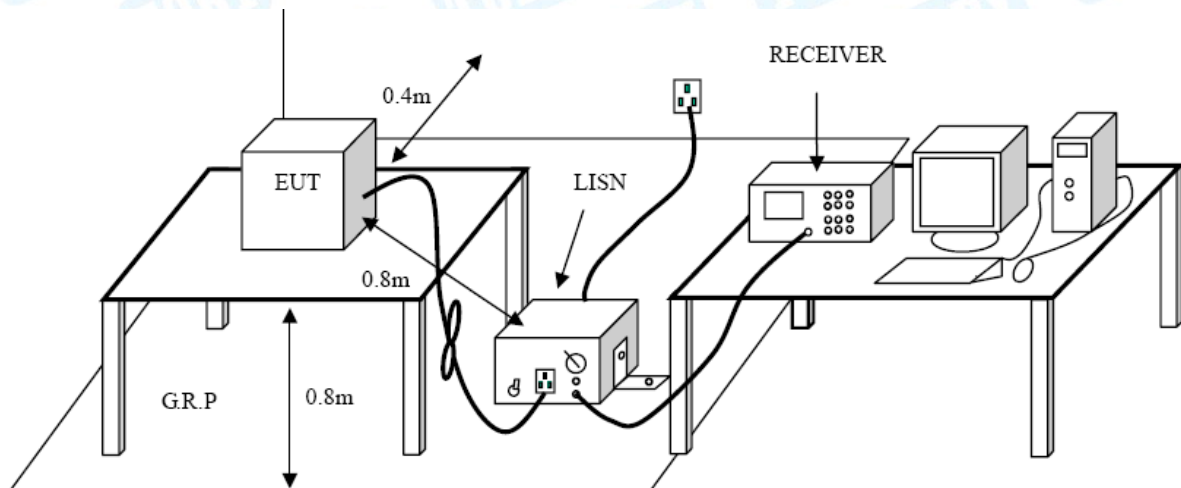
**Conducted Emission Test Limit**

| Frequency<br>(MHz) | Maximum RF Line Voltage (dB $\mu$ V) |               |
|--------------------|--------------------------------------|---------------|
|                    | Quasi-peak Level                     | Average Level |
| 0.15 ~ 0.5         | 66 ~ 56 *                            | 56 ~ 46 *     |
| 0.5 ~ 5            | 56                                   | 46            |
| 5 ~ 30             | 60                                   | 50            |

Notes:(1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

### 5.2 Test Setup



### 5.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from the nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

#### 5.4 Deviation

The test is no deviation from the standard.

#### 5.5 Deviation From Test Standard

No deviation

#### 5.6 Test Data

Please refer to the Attachment A.

## 6. Radiated Emission Test

### 6.1 Test Standard and Limit

#### 6.1.1 Test Standard

FCC Part 18.305

#### 6.1.2 Test Limit

#### Radiated Emission Limit

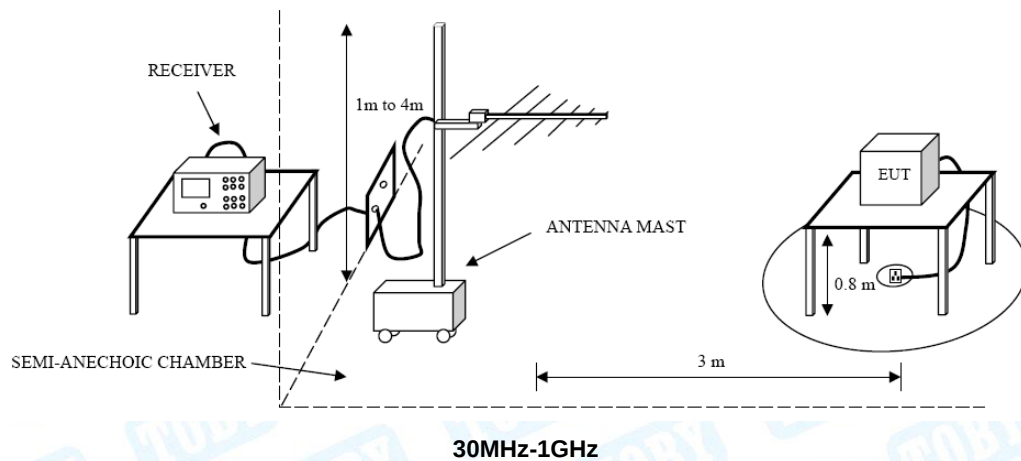
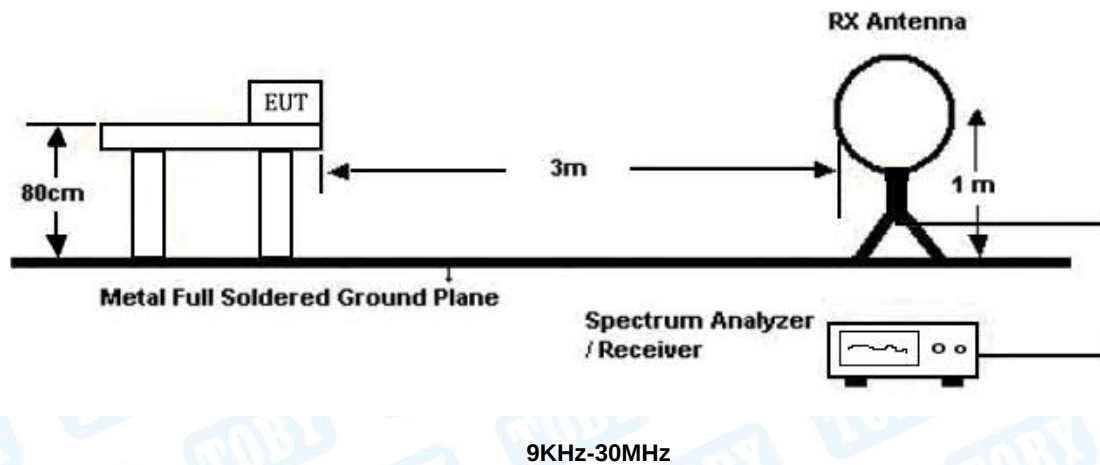
| Equipment                                           | Operating frequency                        | RF Power generated by equipment (watts) | Field strength limit (uV/m)                                | Distance (meters)         |
|-----------------------------------------------------|--------------------------------------------|-----------------------------------------|------------------------------------------------------------|---------------------------|
| Any type unless otherwise specified (miscellaneous) | Any ISM frequency                          | Below 500                               | 25                                                         | 300                       |
|                                                     |                                            | 500 or more                             | $25 \times \text{SQRT}(\text{power}/500)$                  | $1300$                    |
|                                                     | Any non-ISM frequency                      | Below 500                               | 15                                                         | 300                       |
|                                                     |                                            | 500 or more                             | $15 \times \text{SQRT}(\text{power}/500)$                  | $1300$                    |
| Industrial heaters and RF stabilized arc welders    | On or below 5,725 MHz<br>Above 5,725 MHz   | Any<br>Any                              | 10<br>( <sup>2</sup> )                                     | 1,600<br>( <sup>2</sup> ) |
| Medical diathermy                                   | Any ISM frequency<br>Any non-ISM frequency | Any<br>Any                              | 25                                                         | 300                       |
|                                                     |                                            |                                         | 15                                                         | 300                       |
| Ultrasonic                                          | Below 490 kHz                              | Below 500<br>500 or more                | 2,400/F(kHz)                                               | 300                       |
|                                                     |                                            |                                         | $2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$ | $3300$                    |
|                                                     | 490 to 1,600 kHz<br>Above 1,600 kHz        | Any<br>Any                              | 24,000/F(kHz)                                              | 30                        |
|                                                     |                                            |                                         | 15                                                         | 30                        |
| Induction cooking ranges                            | Below 90 kHz<br>On or above 90 kHz         | Any<br>Any                              | 1,500                                                      | $430$                     |
|                                                     |                                            |                                         | 300                                                        | $430$                     |

| Frequency (MHz) | Limit (dBuV/m) | Remark     | Measurement Distance(m) |
|-----------------|----------------|------------|-------------------------|
| 0.009-30        | 103.5          | Quasi-Peak | 3                       |
| 30-88           | 40.0           | Quasi-Peak | 3                       |
| 88-216          | 43.5           | Quasi-Peak | 3                       |
| 216-1000        | 46.0           | Quasi-Peak | 3                       |

Note: According to the article 18.305(b), The operating frequency is non-ISM frequency; the RF power generated by equipment is below 500(Watts).

Note: Emission Level(dBuV/m)=20log Emission Level(uV/m)

## 6.2 Test Setup



## 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 30MHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The EUT was placed on the top of a rotating table which is 0.8 meters above the ground. EUT is set 3.0 meters away from the receiving antenna that mounted on an antenna tower. The table was rotated 360 degrees to determine the position of the highest radiation, the antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- (3) An initial scan was performed in the 3m chamber using the spectrum analyzer in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a loop antenna.
- (4) For the actual test configuration, please see the test setup photo.

#### 6.4 Deviation

For Radiated Emission, test at 3m distance instead of 30m distance. 40dB was plus to the limit of 30m measurement limit. More details refer to FCC part 15.31(f)(2).

#### 6.5 Deviation From Test Standard

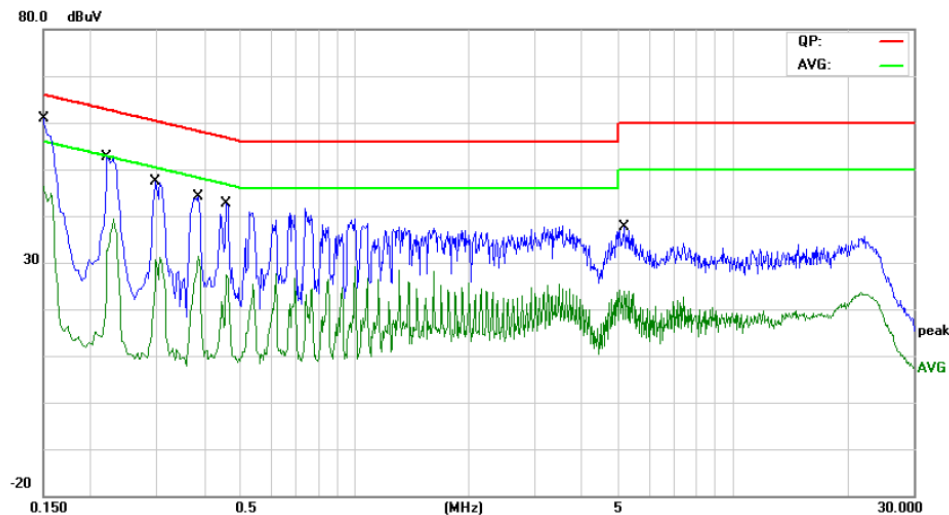
No deviation

#### 6.6 Test Data

Please refer to the Attachment B.

## Attachment A--Conducted Emission Test Data

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 24.5°C                      | Relative Humidity: | 45% |
| Test Voltage: | AC 120V/60Hz                |                    |     |
| Terminal:     | Line                        |                    |     |
| Test Mode:    | Mode 1                      |                    |     |
| Remark:       | Only worse case is reported |                    |     |



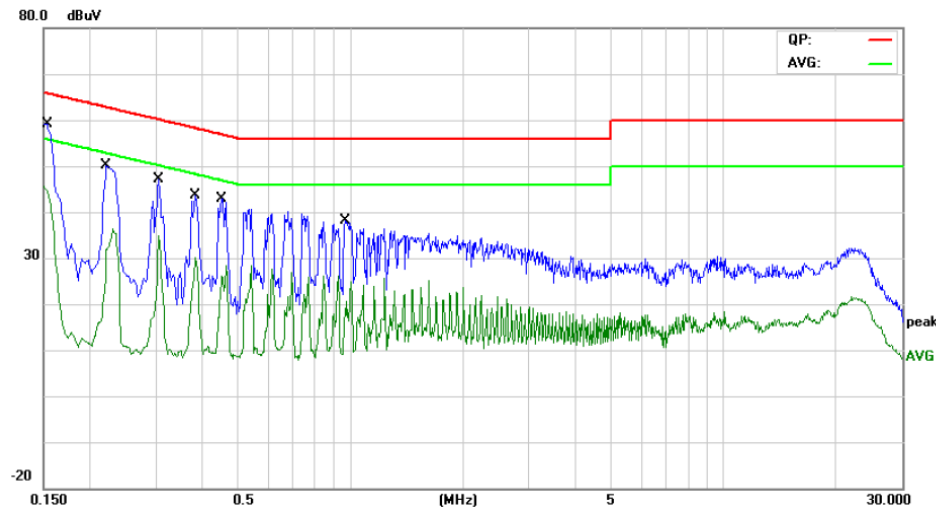
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   | *   | 0.1500       | 44.92                    | 11.62                   | 56.54                    | 65.99         | -9.45      | QP       |
| 2   |     | 0.1500       | 30.51                    | 11.62                   | 42.13                    | 55.99         | -13.86     | AVG      |
| 3   |     | 0.2220       | 34.98                    | 11.65                   | 46.63                    | 62.74         | -16.11     | QP       |
| 4   |     | 0.2220       | 16.26                    | 11.65                   | 27.91                    | 52.74         | -24.83     | AVG      |
| 5   |     | 0.2980       | 31.01                    | 11.59                   | 42.60                    | 60.30         | -17.70     | QP       |
| 6   |     | 0.2980       | 11.45                    | 11.59                   | 23.04                    | 50.30         | -27.26     | AVG      |
| 7   |     | 0.3860       | 30.06                    | 11.46                   | 41.52                    | 58.15         | -16.63     | QP       |
| 8   |     | 0.3860       | 16.37                    | 11.46                   | 27.83                    | 48.15         | -20.32     | AVG      |
| 9   |     | 0.4580       | 26.72                    | 11.46                   | 38.18                    | 56.73         | -18.55     | QP       |
| 10  |     | 0.4580       | 12.92                    | 11.46                   | 24.38                    | 46.73         | -22.35     | AVG      |
| 11  |     | 5.1660       | 21.63                    | 10.08                   | 31.71                    | 60.00         | -28.29     | QP       |
| 12  |     | 5.1660       | 12.46                    | 10.08                   | 22.54                    | 50.00         | -27.46     | AVG      |

## Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 24.5°C                      | Relative Humidity: | 45% |
| Test Voltage: | AC 120V/60Hz                |                    |     |
| Terminal:     | Neutral                     |                    |     |
| Test Mode:    | Mode 1                      |                    |     |
| Remark:       | Only worse case is reported |                    |     |



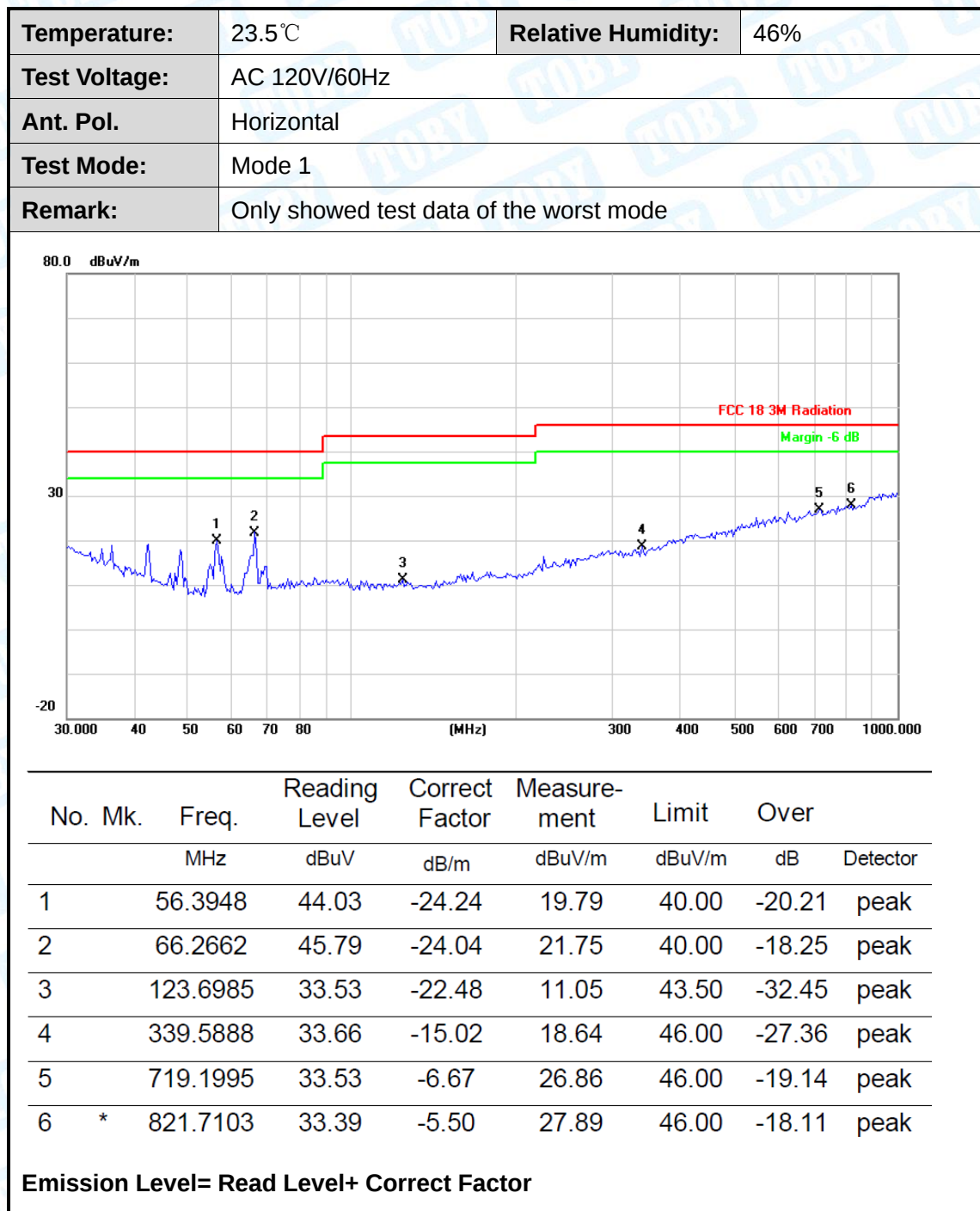
| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   | *   | 0.1539 | 44.13         | 11.62          | 55.75       | 65.78 | -10.03 | QP       |
| 2   |     | 0.1539 | 30.89         | 11.62          | 42.51       | 55.78 | -13.27 | AVG      |
| 3   |     | 0.2220 | 33.00         | 11.65          | 44.65       | 62.74 | -18.09 | QP       |
| 4   |     | 0.2220 | 14.53         | 11.65          | 26.18       | 52.74 | -26.56 | AVG      |
| 5   |     | 0.3060 | 31.67         | 11.57          | 43.24       | 60.08 | -16.84 | QP       |
| 6   |     | 0.3060 | 18.48         | 11.57          | 30.05       | 50.08 | -20.03 | AVG      |
| 7   |     | 0.3820 | 28.03         | 11.47          | 39.50       | 58.23 | -18.73 | QP       |
| 8   |     | 0.3820 | 17.08         | 11.47          | 28.55       | 48.23 | -19.68 | AVG      |
| 9   |     | 0.4500 | 25.82         | 11.46          | 37.28       | 56.87 | -19.59 | QP       |
| 10  |     | 0.4500 | 9.10          | 11.46          | 20.56       | 46.87 | -26.31 | AVG      |
| 11  |     | 0.9660 | 21.50         | 11.21          | 32.71       | 56.00 | -23.29 | QP       |
| 12  |     | 0.9660 | 4.20          | 11.21          | 15.41       | 46.00 | -30.59 | AVG      |

## Remark:

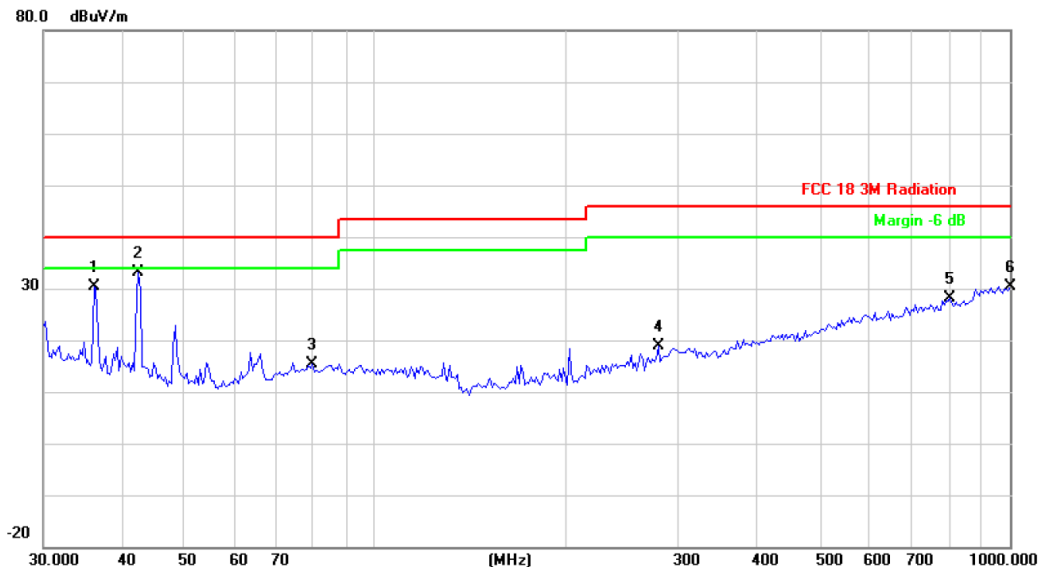
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

## Attachment B-- Radiated Emission Test Data



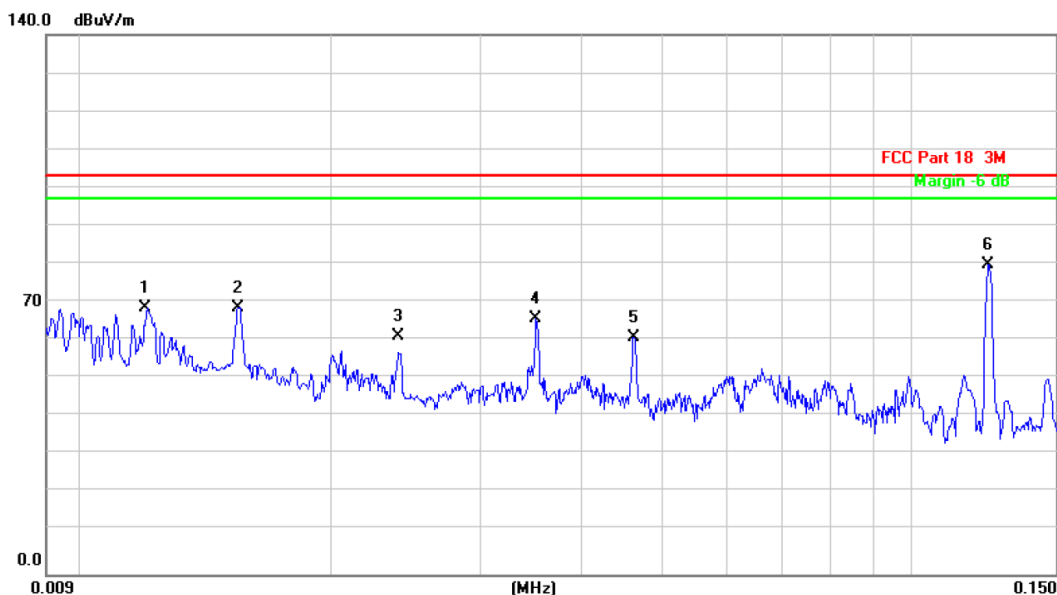
|               |                                         |                    |     |
|---------------|-----------------------------------------|--------------------|-----|
| Temperature:  | 23.5℃                                   | Relative Humidity: | 46% |
| Test Voltage: | AC 120V/60Hz                            |                    |     |
| Ant. Pol.     | Vertical                                |                    |     |
| Test Mode:    | Mode 1                                  |                    |     |
| Remark:       | Only showed test data of the worst mode |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 36.0007      | 47.96                    | -17.60                    | 30.36                      | 40.00           | -9.64      | peak     |
| 2   | *   | 42.3022      | 53.80                    | -20.59                    | 33.21                      | 40.00           | -6.79      | peak     |
| 3   |     | 79.5209      | 38.03                    | -22.70                    | 15.33                      | 40.00           | -24.67     | peak     |
| 4   |     | 279.0436     | 35.49                    | -16.72                    | 18.77                      | 46.00           | -27.23     | peak     |
| 5   |     | 804.6028     | 33.74                    | -5.54                     | 28.20                      | 46.00           | -17.80     | peak     |
| 6   |     | 1000.0000    | 32.72                    | -2.30                     | 30.42                      | 46.00           | -15.58     | peak     |

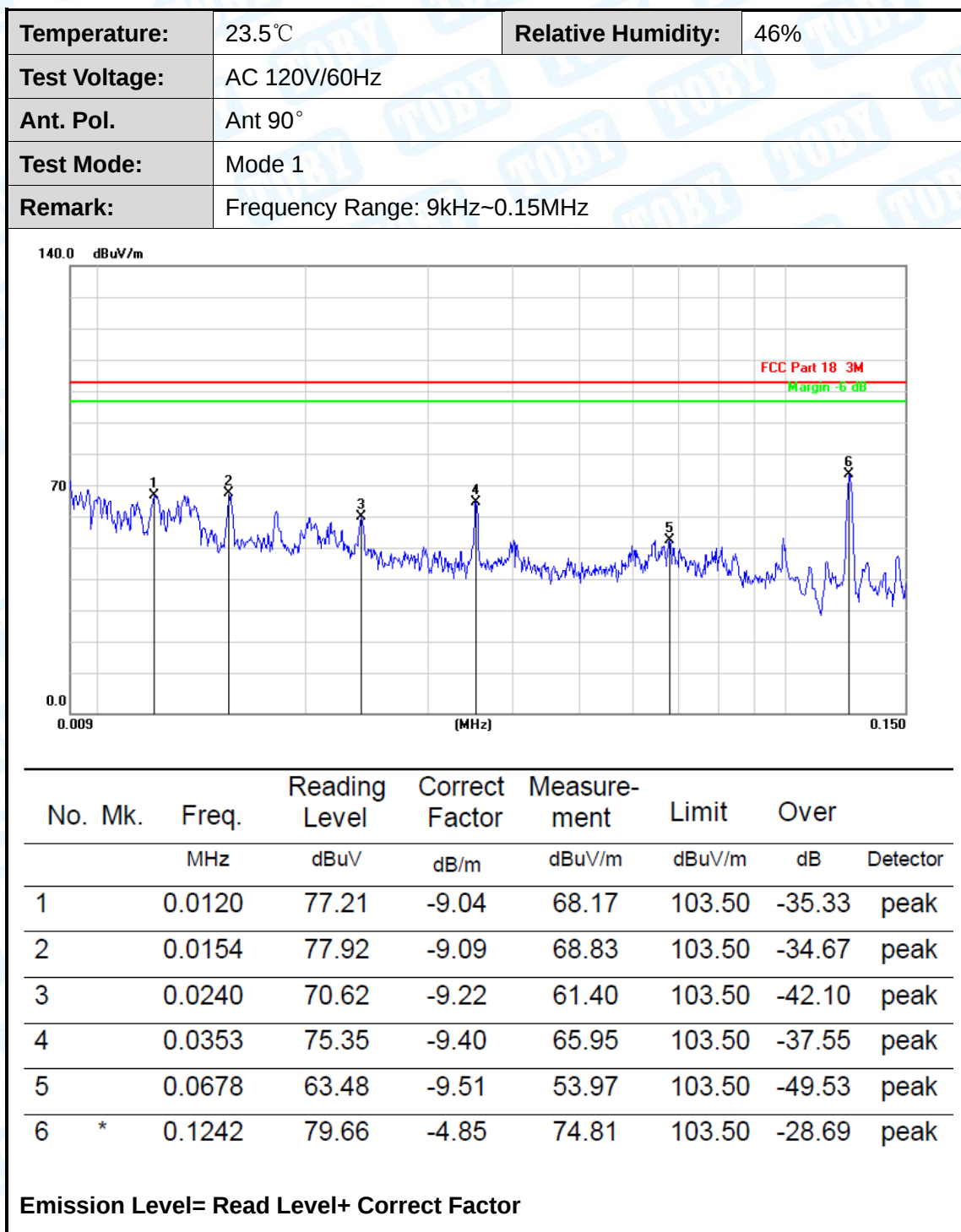
Emission Level= Read Level+ Correct Factor

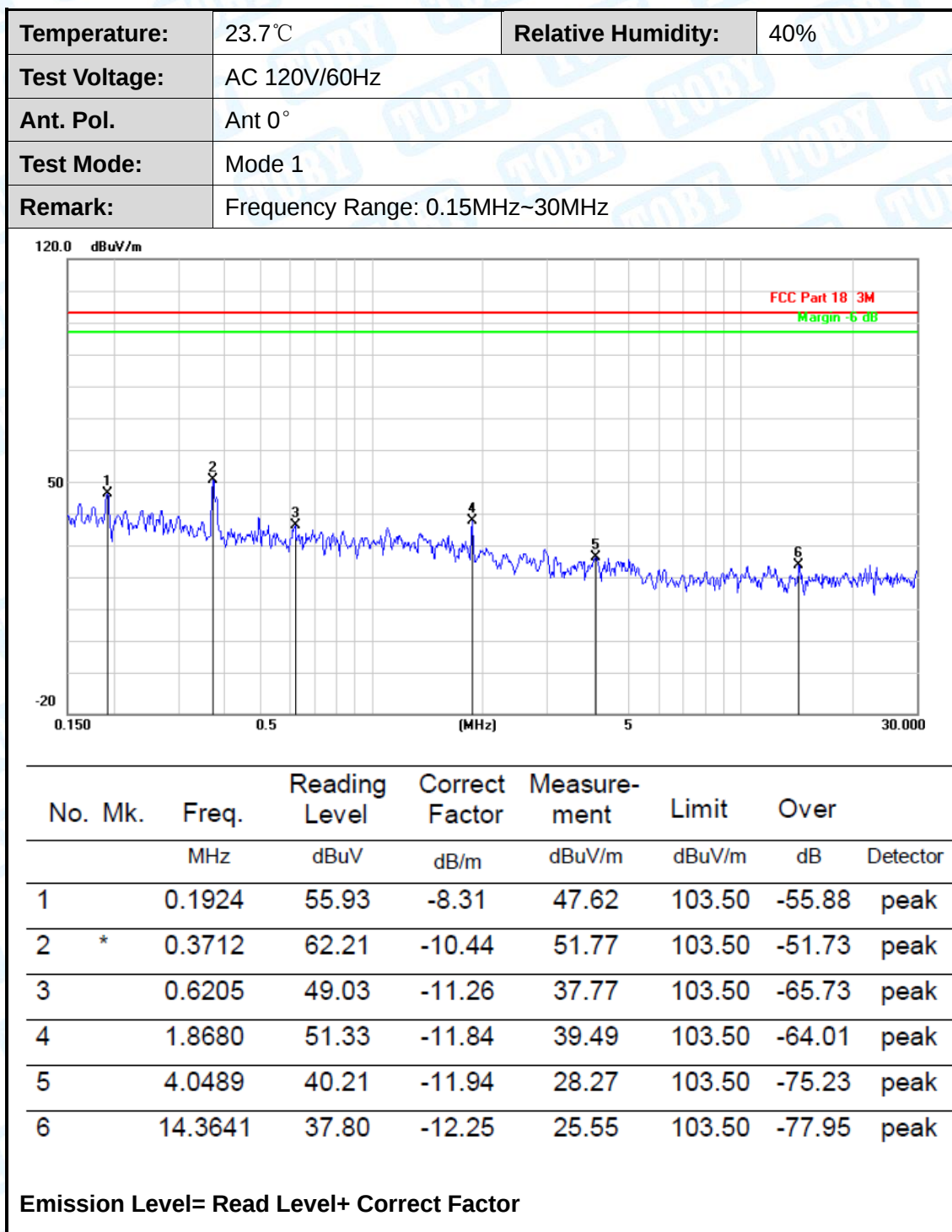
|               |                               |                    |     |
|---------------|-------------------------------|--------------------|-----|
| Temperature:  | 23.7°C                        | Relative Humidity: | 40% |
| Test Voltage: | AC 120V/60Hz                  |                    |     |
| Ant. Pol.     | Ant 0°                        |                    |     |
| Test Mode:    | Mode 1                        |                    |     |
| Remark:       | Frequency Range: 9kHz~0.15MHz |                    |     |

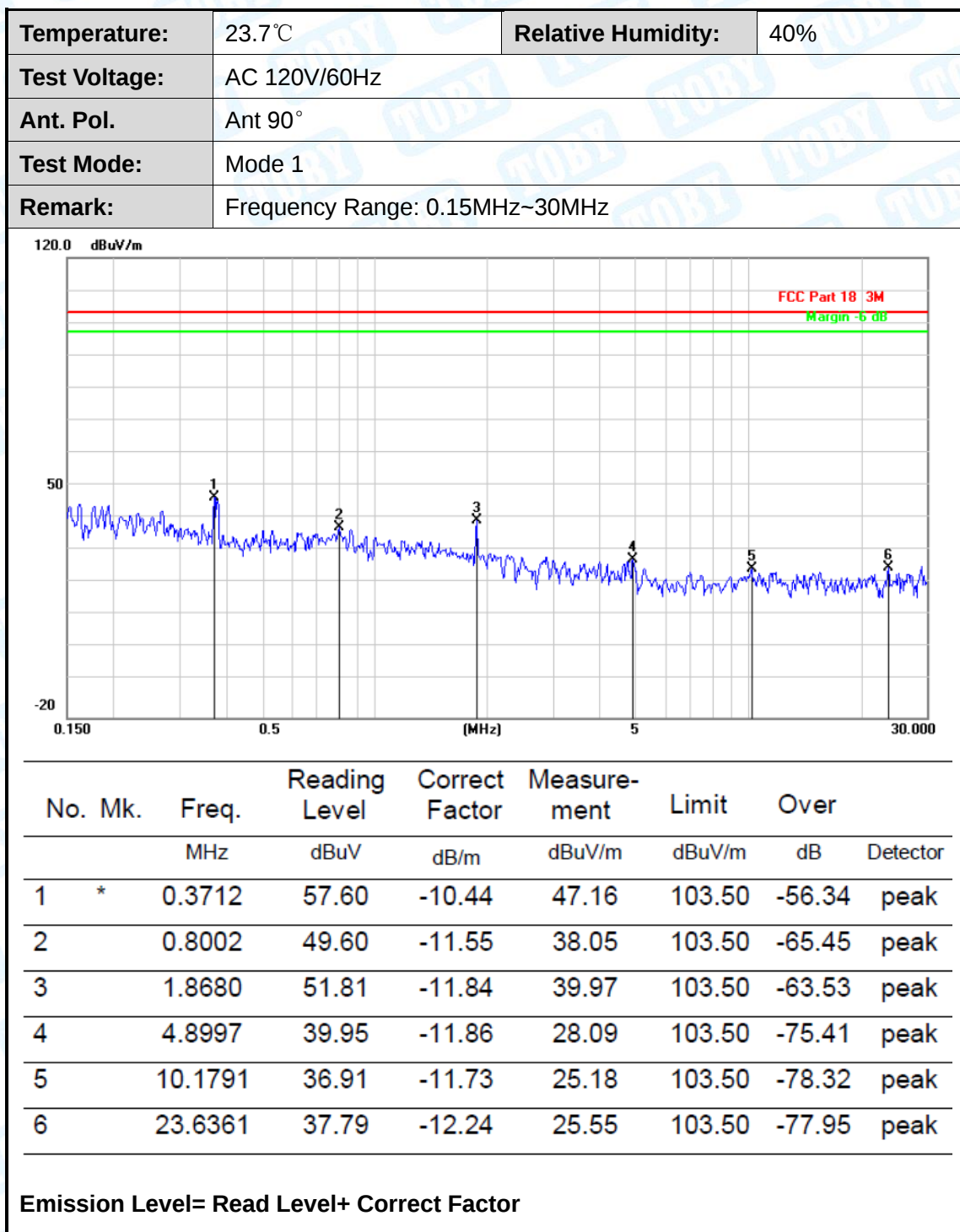


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 0.0119       | 78.17                    | -9.04                     | 69.13                      | 103.50          | -34.37     | peak     |
| 2   |     | 0.0154       | 78.32                    | -9.09                     | 69.23                      | 103.50          | -34.27     | peak     |
| 3   |     | 0.0240       | 70.93                    | -9.22                     | 61.71                      | 103.50          | -41.79     | peak     |
| 4   |     | 0.0352       | 75.72                    | -9.40                     | 66.32                      | 103.50          | -37.18     | peak     |
| 5   |     | 0.0463       | 70.92                    | -9.62                     | 61.30                      | 103.50          | -42.20     | peak     |
| 6   | *   | 0.1242       | 85.32                    | -4.85                     | 80.47                      | 103.50          | -23.03     | peak     |

Emission Level= Read Level+ Correct Factor







-----END OF REPORT-----