



ORIGINAL

TEST REPORT



JAB
Testing
RTL01400

The International Laboratory Accreditation Cooperation (ILAC) is the global association for the cooperation of accreditation bodies for calibration and testing laboratories.

This laboratory is accredited by American Association For Laboratory Accreditation.
The tests reported herein have been performed in accordance with its terms of accreditation.

Test Report No. : E20084-E03
Issue Date : January 29, 2021

EUT Information

Applied Standard : FCC Part 15, Subpart B
Trade Name : LAUREL
Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

JEL Limited

Contents

★★★★★★★★★★★★

| <u>Text</u> | <u>Page</u> |
|------------------------------------------------|--------------------|
| Contents ----- | 2 |
| Statement ----- | 3 |
| Configuration of the EUT ----- | 4 |
| Condition of the EUT ----- | 5 |
| Test Site Description ----- | 6 |
| Test Procedure ----- | 8 |
| List of test equipment used for the test ----- | 10 |
| Test results ----- | 11 |
| Radiated disturbance ----- | 11 |
| Conducted disturbance ----- | 23 |
| Photograph of the EUT ----- | 27 |

★★★★★★★★★★★★

Statement

Client

Company name : LAUREL PRECISION MACHINES CO., LTD.
Address : 12-6, Higashitabata 1-chome, Kita-ku, Tokyo-to, 114-0013, Japan
Telephone : +81 3 3893 1360
Facsimile : +81 3 3894 5704

Equipment Under Test (EUT)

Trade name : LAUREL
Category : NOTE SORTER
Model name : Ks (With DB PCB)
Serial number : 0000002
Intended environment : Office
Date of receipt : January 5, 2021
EUT condition : Production model, not damaged
Highest frequency : 1250 MHz

Test Performed

Test started : January 6, 2021
Test completed : January 7, 2021
Location : 2971 Nakabyo, Abiko-shi, Chiba-ken, 270-1121, Japan

Test Results

Purpose of the test : Compliance test to the following standard
Applied standard : FCC Part 15, Subpart B
Classification : Class A
Results : **PASS**

Test Results Overview

| Measurement | Results* | Test method |
|---------------------------------------|----------|-----------------|
| Radiated disturbance (30 - 6250 MHz) | Pass | ANSI C63.4:2014 |
| Conducted disturbance (0.15 - 30 MHz) | Pass | ANSI C63.4:2014 |

* : The compliance statement is based on nominal value only.

Measurement Uncertainty

Radiated disturbance up to 1 GHz : +4.3 [dB], -4.3 [dB] (k=2)
Radiated disturbance above 1 GHz : +5.9 [dB], -5.9 [dB] (k=2)
Conducted disturbance for mains port : +3.4 [dB], -3.4 [dB] (k=2)

The coverage factor k=2 yields approx. a 95 % level of confidence for near-normal distribution typical of most measurement results.

The data shown in this test report for Measurement Uncertainty is required to present the data per aforementioned standard according to CISPR 16-4-2.


Laboratory's Signatory

Report number : E20084-E03
Issue date : January 29, 2021

This test report is issued under the authority of:

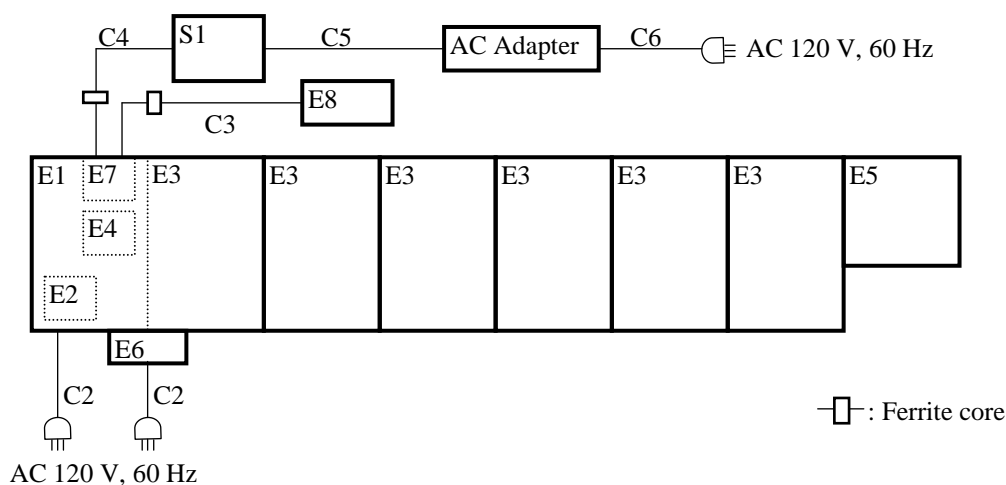

Fumio Miyuchi, Manager, EMC Dept.

The test was supervised by:


Koji Matsuo, Test Engineer

The results in this report apply only to the sample(s) tested.

The report shall not be reproduced except in full without the written approval of JEL Limited.

Configuration of the EUT**Equipment Under Test (EUT)**

| ID | Category | Model name | Serial number | Manufacturer | Remarks |
|----|------------------|------------------|---------------|-------------------------------------|----------------------------------|
| E1 | NOTE SORTER | Ks (With DB PCB) | 0000002 | LAUREL PRECISION MACHINES CO., LTD. | FCC ID: 2ARVCKS Refer to note |
| E2 | Validator | JDU-70 | None | LAUREL PRECISION MACHINES CO., LTD. | - |
| E3 | Pocket Module | KP4s | None | LAUREL PRECISION MACHINES CO., LTD. | - |
| E4 | Security Chip | None | None | LAUREL PRECISION MACHINES CO., LTD. | - |
| E5 | Safty Pocket | None | None | LAUREL PRECISION MACHINES CO., LTD. | - |
| E6 | Sub Inlet | None | None | LAUREL PRECISION MACHINES CO., LTD. | - |
| E7 | DB PCB | None | None | LAUREL PRECISION MACHINES CO., LTD. | - |
| E8 | Customer Display | CD8-L1 | 0309150010A | LAUREL BANK MACHINES CO., LTD. | - |

Note: Rated input power: AC 100 - 240 V, 50 / 60 Hz, 10 A

Support Equipment

| ID | Category | Model name | Serial number | Manufacturer | Remarks |
|----|----------|------------|---------------|--------------|---------|
| S1 | PC | FMVNS8A7 | R4303005 | FUJITSU | - |

Cable List

| ID | Type | Length | Shielding | Remarks |
|----|-----------------------|--------|-----------|--------------------------------------------|
| C1 | - | - | - | - |
| C2 | AC power cable | 2.5 m | No | 3-wire |
| C3 | Modular cable | 1.2 m | No | 6-wire, Ferrite core: TFT-112514N(TKK), 3T |
| C4 | LAN cable (CAT5) | 5.0 m | No | 8-wire, Firrite core: ESD-R-38B(TOKIN), 3T |
| C5 | DC output power cable | 1.2 m | No | 2-wire |
| C6 | AC input power cable | 2.0 m | No | 2-wire |

Dimensions of the EUT

| ID | Width | Depth | Height | Remarks |
|----|---------|--------|--------|--------------------------------|
| - | 2370 mm | 700 mm | 650 mm | EUT system, Actual measurement |

Condition of the EUTOperating Mode of the EUT

The tests have been conducted with the following operational mode(s) of the EUT.

| Name of mode in the report | Description |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ageing | Repeat the following initialization operation 1. Check all sensors 2. EUT internal I/F check 3. Drive and operation check of all motors/solenoids 4. LAN communication check |

C JEL use only

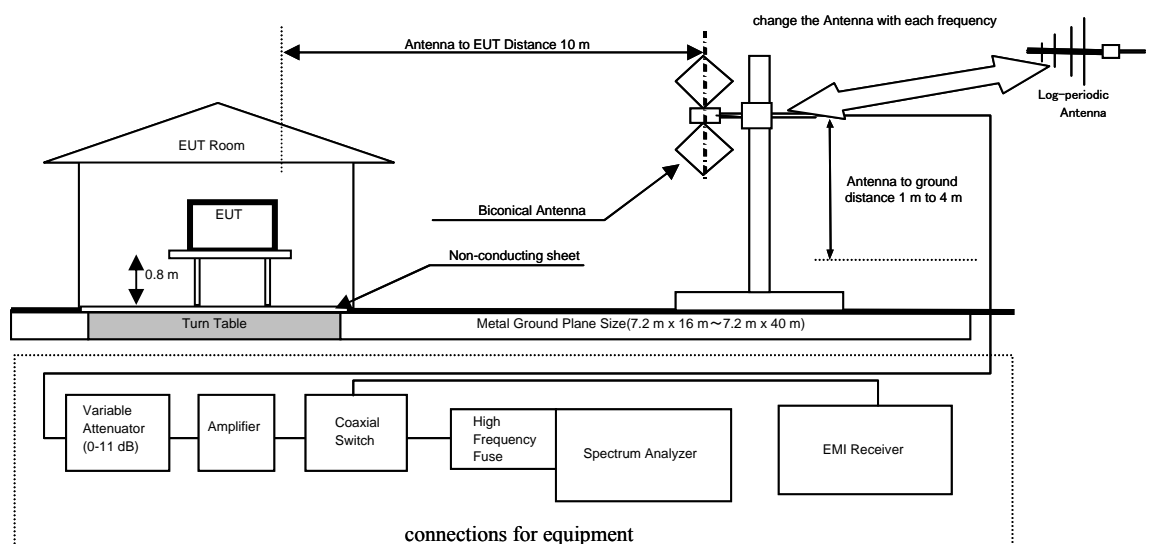
***** Intended blank *****

Test Site Description

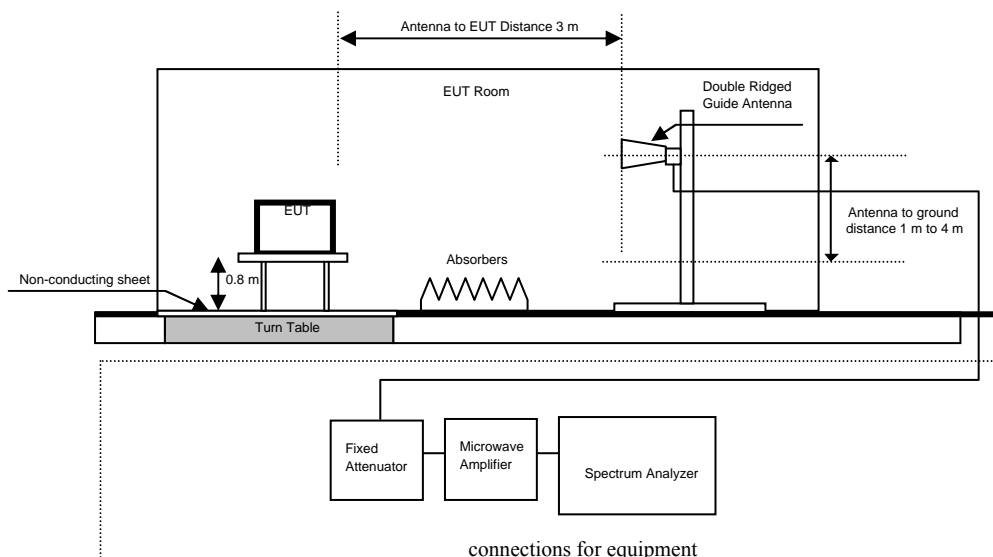
1-Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 6 months facility check for the facilities and a monthly check and annual calibration for testing equipment according to ISO/IEC 17025:2017. All the testing facilities are used as the same specifications shown below. In this product, there used No.8 open test site for radiated emission and conducted emission. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement.

2-1 Radiated Disturbance Measurement (up to 1 GHz)

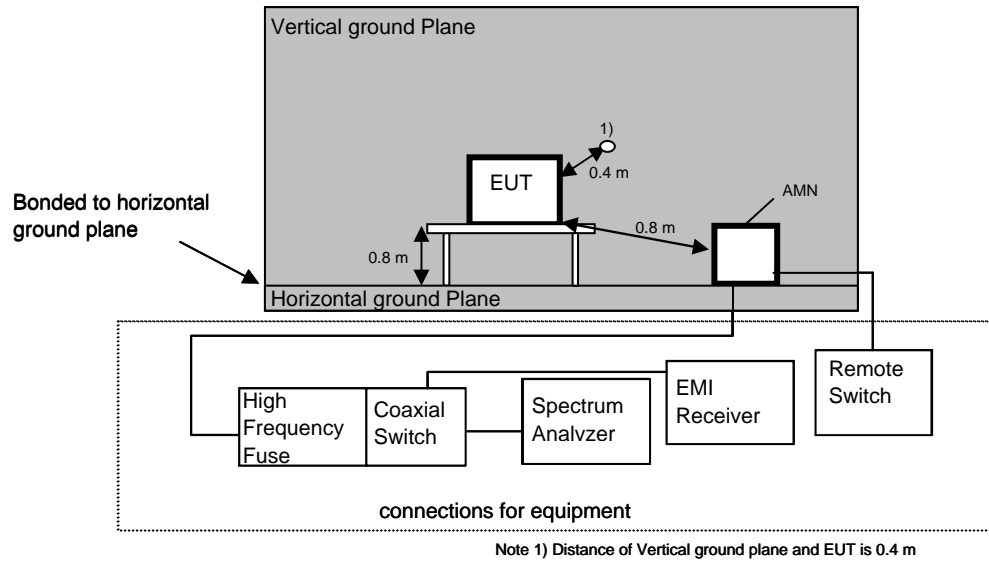


2-2 Radiated Disturbance Measurement (above 1 GHz)



Test Site Description (Continue)

2-3 Conducted Disturbance Measurement



***** Intended blank *****

Test Procedure

Radiated Disturbance Measurements

■ up to 1 GHz

- Test site is met the requirements of CISPR16-1-4 and the distance between the EUT and the antenna is adjusted to 10 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1m and 4m in height above the ground.
- The EUT is placed on the turntable covered with non-conducting sheet.
- Measurements are carried out using a spectrum analyzer with peak detectors (100 kHz bandwidth) and an EMI receiver with quasi-peak detectors (120 kHz bandwidth). (Refer to the list of test equipments used for the test.)
- Biconical antenna and logperiodic antenna are used as wideband antenna.
- The Biconical antenna is used in the frequency range of 30 MHz to 300 MHz and the Logperiodic antenna is used in the frequency range of 300 MHz to 1 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Measurement is carried out by a JEL operator as manual operation as follows:
 - search for some of high disturbance frequency points than the other points by the following settings: bandwidth 100 kHz, frequency span 10 MHz between 30 MHz and 300 MHz and frequency span 50 MHz between 300 MHz and 1 GHz.
 - search the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
 - set the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m.
 - read the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth)
 - make measurement to vertical and horizontal polarization.
 - calculate the measurement result with the following equation:
(Measurement result = reading value + antenna factor + antenna cable loss - amp. gain)

■ above 1 GHz

- Test site is met the requirements of CISPR16-1-4 and the distance between the EUT and the antenna is adjusted to 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- A double-ridged guide antenna is used for the test and is placed on a metal ground plane.
The antenna height is specified in "General description of radiated disturbance measurement above 1 GHz".
- The EUT is placed on the turntable covered with non-conducting sheet.
- Measurements are carried out using a spectrum analyzer with peak detectors (RBW:1 MHz, VBW:3 MHz) and with average detectors (RBW:1 MHz, VBW:30 Hz[1 Hz]). (Refer to the list of the equipments used for the test.)
- Installed the specified wave-absorber on the ground plane between the antenna and EUT.
- A fixed attenuator is used for verifying amplifier's linearity.
- Rotating the turntable is carried out by control buttons on the console.
- Measurement is carried out by a JEL operator as manual operation as follows:
 - search for some of high disturbance frequency points than the other points by the following settings: frequency span 100 MHz between 1 GHz and 2 GHz and frequency span 500 MHz between 2 GHz and 6.25 GHz
 - search the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
 - make measurement with the antenna in fixed position or with scanning, depending on the height of EUT.
 - set the frequency span to be 5 MHz for the scanned frequency, then read the disturbance levels with Peak detector and Average detector.
 - make measurement to vertical and horizontal polarization.
 - calculate the measurement result with the following equation:
(Measurement result = reading value + antenna factor + antenna cable loss - amp. gain)

Test Procedure (Continue)**Conducted Disturbance Measurements**

- The measurements is carried out on horizontal ground plane in a shielded room.
- An AMN(Artificial Mains Network) with a nominal impedance ($50\ \Omega/50\ \mu\text{H}$) as defined in CISPR16-1-2, shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using a spectrum analyzer with peak detectors (10 kHz bandwidth) and an EMI receiver with quasi-peak detectors and average detector.
(Refer to the list of test equipments used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on a horizontal metallic ground plane covered with non-conducting sheet.
- A remote switch is used for changing phases between Line(L) and Neutral(N).
- Measurement is carried out as manual operation as follows:
 - detect the maximized emission level using the maxhold function after setting the spectrum analyzer bandwidth 10 kHz and the frequency range from 150 kHz to 1 MHz , 1 MHz to 5 MHz and 5 MHz to 30 MHz.
 - search the maximum frequency point of the disturbance wave in each frequency range.
 - read the disturbance level of quasi-peak, average and Line(L) and Neutral(N) in 9 kHz bandwidth by the EMI receiver.
 - calculate the measurement result with the following equation.
(Measurement result= reading value + LISN(AMN) voltage division factor + cable loss)

***** Intended blank *****

List of equipment used for the tests (Vol. 419)

| Item | Model Name | Serial No. | Manufacturer | Effective Until |
|----------------------------|-------------------|-------------------|---------------------|------------------------|
| EMI test receiver | ESVS10 | 100011 | R&S | Jul 31, 2021 |
| Spectrum analyzer | TR4173E | 05590011 | Advantest | Aug 31, 2021 |
| Pre-amplifier | 8447D Opt.010 | 2944A08043 | HP | Feb 28, 2021 |
| Biconical antenna | BBA9106 | 1196 | Schwarzbeck | Jul 31, 2021 |
| Log-periodic antenna | USLP9143 | 124 | Schwarzbeck | Jul 31, 2021 |
| Step Attenuator | 8494B | 2812A16938 | HP | Feb 28, 2021 |
| Coaxial Switch | AV210 | 650009 | Stack Elec. | Nov 30, 2021 |
| High frequency fuse holder | MP612A | AN013 | Anritsu | Jan 31, 2021 |
| Thermometer/Hygrometer | 3-4110-01 | 015 | Isuzu | Jun 01, 2021 |
| EMI test receiver | FCKL1528 | 1528-224 | Schwarzbeck | Feb 28, 2021 |
| Spectrum analyzer | E4401B | US39240216 | HP | Jan 31, 2021 |
| Coaxial Switch | AV210 | 650005 | Stack Elec. | Nov 30, 2021 |
| High frequency fuse holder | MP612A | AN014 | Anritsu | Jan 31, 2021 |
| LISN (AMN) | ESH2-Z5 | 882394012 | R&S | Aug 31, 2021 |
| High pass filter | KFL-007 | 8S-1366-3 | Kyoritsu | Jan 31, 2021 |
| Microwave pre-amplifier | QLW-0118 | 33593938 | Jel | Feb 28, 2021 |
| Double ridge guide antenna | 96001 | 96051502 | Raven Eng. | Feb 28, 2021 |
| Spectrum analyzer | E7405A | MY45109378 | Agilent | Aug 31, 2021 |
| Report navigation Original | EM-019 | Ver. 88.0b | Jel | N/A |

Note : The tests were performed on January 6 to 7, 2021.

***** Intended blank *****

Results**Radiated Disturbance Measurements (30 MHz to 1000 MHz)****Test Specification**

Applied standard : FCC Part 15, Subpart B
Class A

EUT

Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

Operating mode of EUT during the test

Ageing

Test Condition

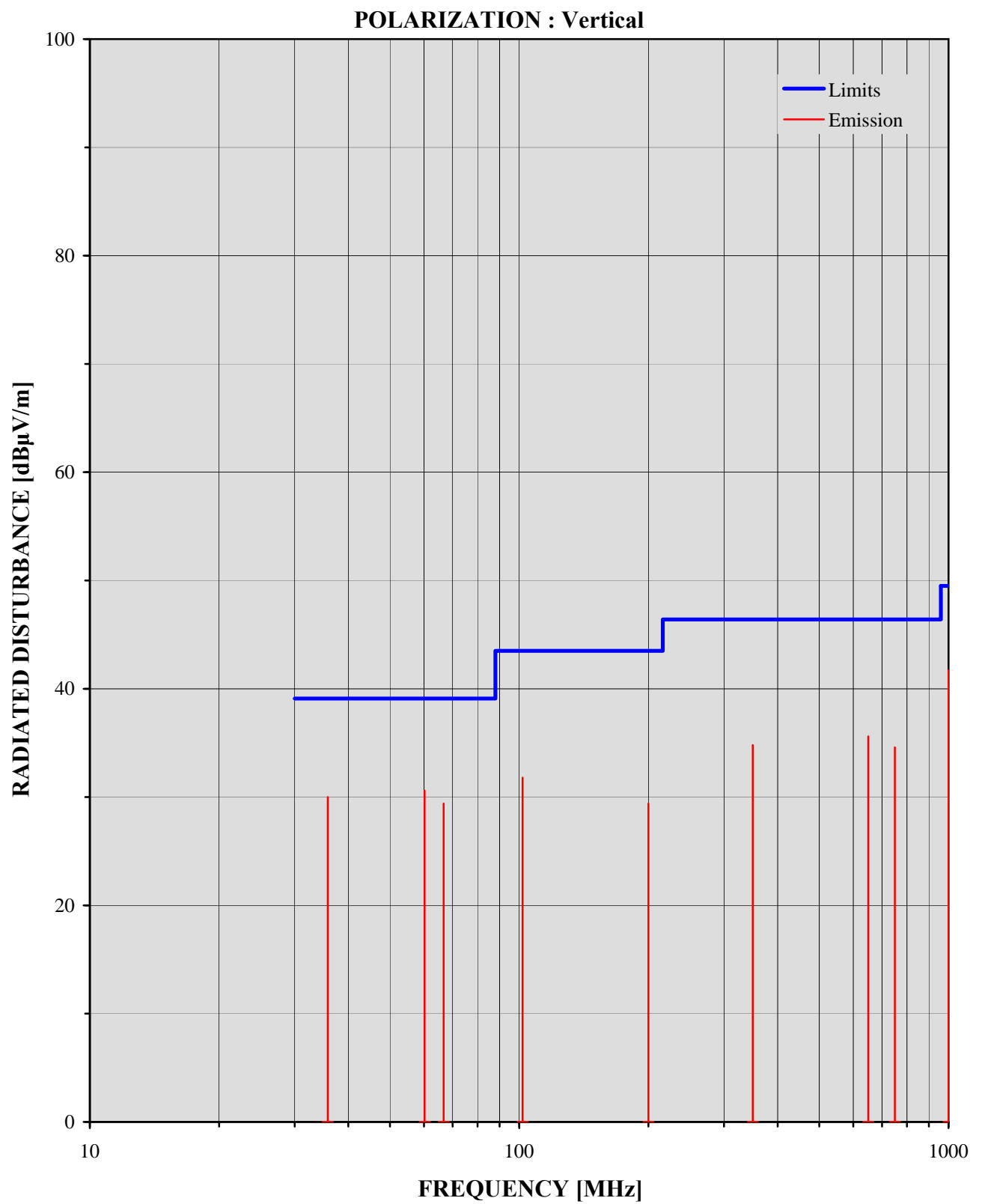
Applied Power : AC 120 V, 60 Hz
Single phase 3-wire
Date : January 7, 2021
Test venue : No.8 Open site
Distance : 10 m
Detection : Q.P.
Temperature : 17°C
Humidity : 61 %
Operator : K. Matsuo

Polarization Vertical

| Frequency (MHz) | Reading (dBμV) | Cor.F. (dB/m) | DATA No. 1 (Refer to Graph 1) | | |
|--------------------|-------------------|------------------|-------------------------------|--------------------|----------------|
| | | | Result (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 35.82 | 33.8 | -3.8 | 30.0 | 39.1 | 9.1 |
| 60.22 | 42.7 | -12.1 | 30.6 | 39.1 | 8.5 |
| 66.67 | 42.3 | -12.9 | 29.4 | 39.1 | 9.7 |
| 101.88 | 40.6 | -8.8 | 31.8 | 43.5 | 11.7 |
| 200.00 | 30.3 | -0.9 | 29.4 | 43.5 | 14.1 |
| 350.00 | 40.5 | -5.7 | 34.8 | 46.4 | 11.6 |
| 650.00 | 35.5 | 0.1 | 35.6 | 46.4 | 10.8 |
| 750.00 | 32.3 | 2.3 | 34.6 | 46.4 | 11.8 |
| 999.99 | 34.5 | 7.2 | 41.7 | 49.5 | 7.8 |

Note

- A sample calculation: Cor. F. (correction factor)= antenna factor + cable loss- amp.gain
Result = Reading + Cor. F.
Margin = Limit- Result

Graph 1

Radiated Disturbance Measurements (30 MHz to 1000 MHz)**Test Specification**

Applied standard : FCC Part 15, Subpart B
Class A

EUT

Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

Operating mode of EUT during the test

Ageing

Test Condition

Applied Power : AC 120 V, 60 Hz
Single phase 3-wire
Date : January 7, 2021
Test venue : No.8 Open site
Distance : 10 m
Detection : Q.P.
Temperature : 17°C
Humidity : 61 %
Operator : K. Matsuo

Polarization Horizontal

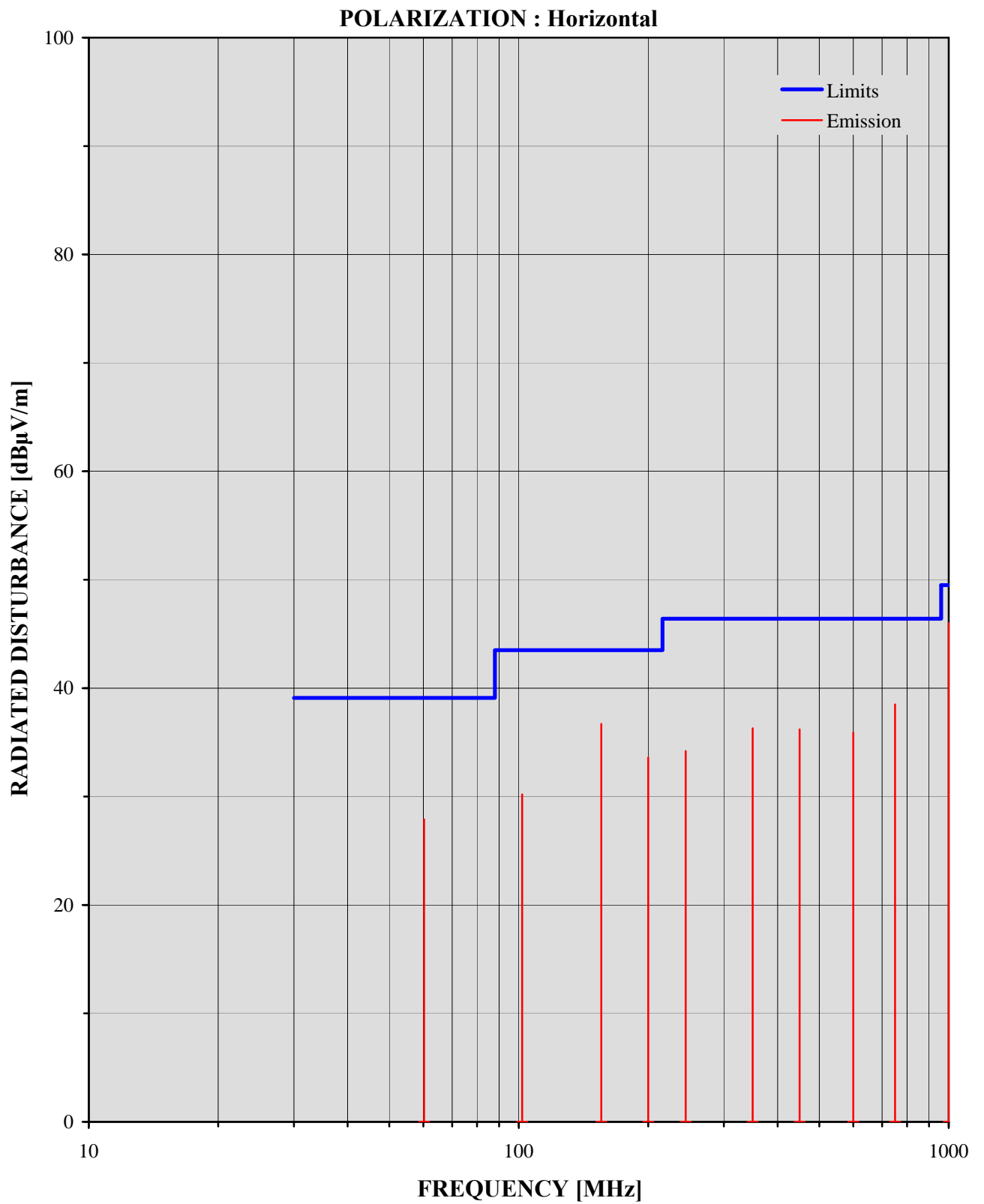
| Frequency (MHz) | Reading (dBμV) | Cor.F. (dB/m) | DATA No. 2 | | (Refer to Graph 2) |
|--------------------|-------------------|------------------|--------------------|--------------------|---------------------|
| | | | Result (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 60.22 | 40.0 | -12.1 | 27.9 | 39.1 | 11.2 |
| 101.88 | 39.0 | -8.8 | 30.2 | 43.5 | 13.3 |
| 155.55 | 39.8 | -3.1 | 36.7 | 43.5 | 6.8 |
| 200.00 | 34.5 | -0.9 | 33.6 | 43.5 | 9.9 |
| 244.44 | 34.0 | 0.2 | 34.2 | 46.4 | 12.2 |
| 350.00 | 42.0 | -5.7 | 36.3 | 46.4 | 10.1 |
| 450.00 | 39.8 | -3.6 | 36.2 | 46.4 | 10.2 |
| 600.00 | 36.8 | -0.9 | 35.9 | 46.4 | 10.5 |
| 750.00 | 36.2 | 2.3 | 38.5 | 46.4 | 7.9 |
| 999.99 | 38.8 | 7.2 | 46.0 | 49.5 | 3.5 * |

Note

- A sample calculation: Cor. F. (correction factor)= antenna factor + cable loss- amp.gain
Result = Reading + Cor. F.
Margin = Limit- Result

* : This value should be taken with the measurement uncertainty.

Graph 2



Radiated Disturbance Measurements (1 GHz to 6.25 GHz)**Test Specification**

Applied standard : FCC Part 15, Subpart B
Class A

EUT

Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

Operating mode of EUT during the test

Ageing

Test Condition

Applied Power : AC 120 V, 60 Hz
Single phase 3-wire
Date : January 6, 2021
Test venue : No.8 Open site
Distance : 3 m
Detection : Peak
Temperature : 17°C
Humidity : 61 %
Operator : K. Matsuo

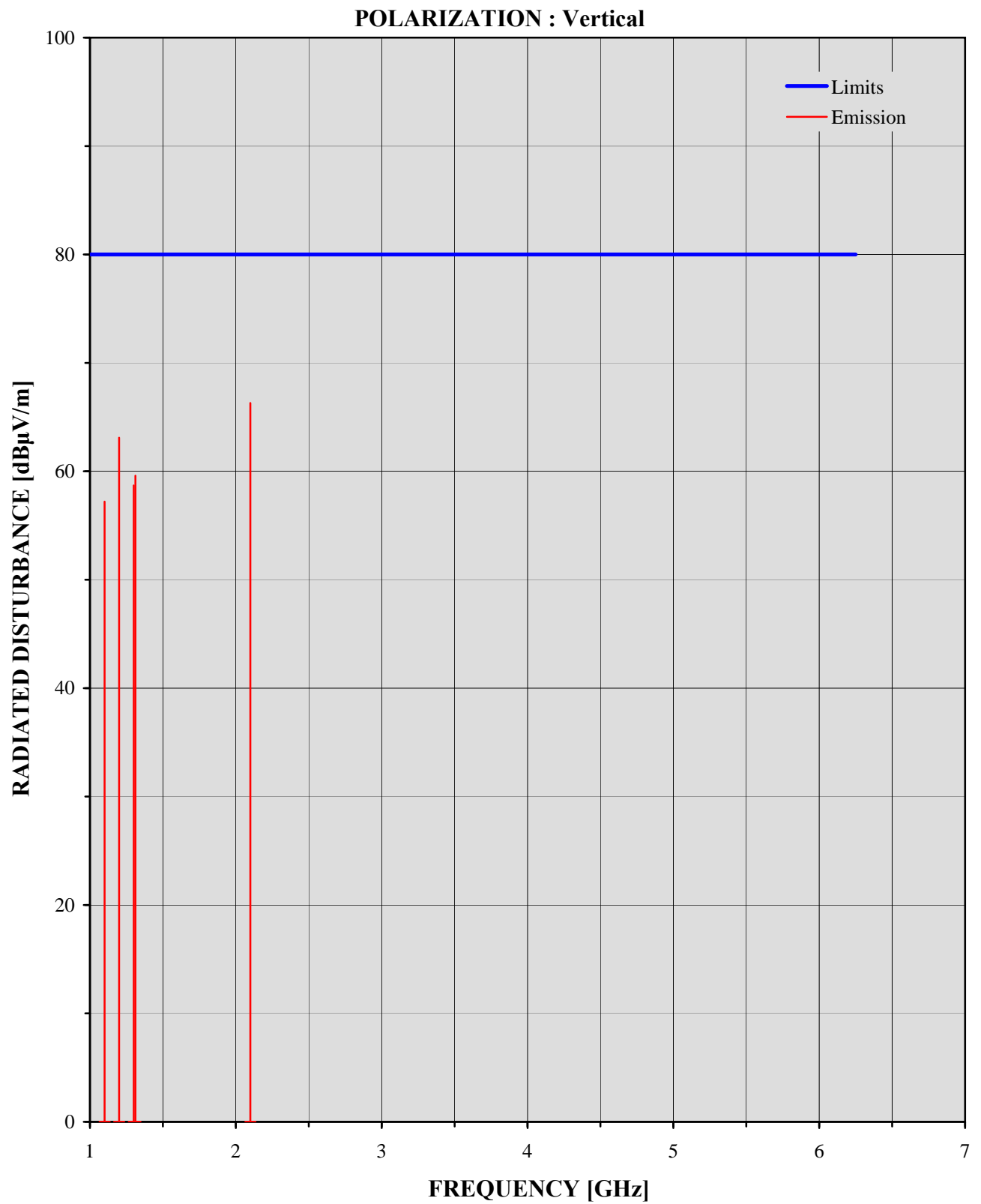
Polarization Vertical

| Frequency (GHz) | Reading (dBμV) | Cor.F. (dB/m) | DATA No. 3 (Refer to Graph 3) | | |
|--------------------|-------------------|------------------|-------------------------------|--------------------|----------------|
| | | | Result (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 1.100 | 68.2 | -11.0 | 57.2 | 80.0 | 22.8 |
| 1.200 | 74.8 | -11.7 | 63.1 | 80.0 | 16.9 |
| 1.300 | 71.1 | -12.4 | 58.7 | 80.0 | 21.3 |
| 1.312 | 72.0 | -12.4 | 59.6 | 80.0 | 20.4 |
| 2.100 | 77.5 | -11.2 | 66.3 | 80.0 | 13.7 |

Note

- A sample calculation: Cor. F. (correction factor)= antenna factor + cable loss- amp.gain
Result = Reading + Cor. F.
Margin = Limit- Result

Graph 3



Radiated Disturbance Measurements (1 GHz to 6.25 GHz)**Test Specification**

Applied standard : FCC Part 15, Subpart B
Class A

EUT

Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

Operating mode of EUT during the test

Ageing

Test Condition

Applied Power : AC 120 V, 60 Hz
Single phase 3-wire
Date : January 6, 2021
Test venue : No.8 Open site
Distance : 3 m
Detection : Average
Temperature : 17°C
Humidity : 61 %
Operator : K. Matsuo

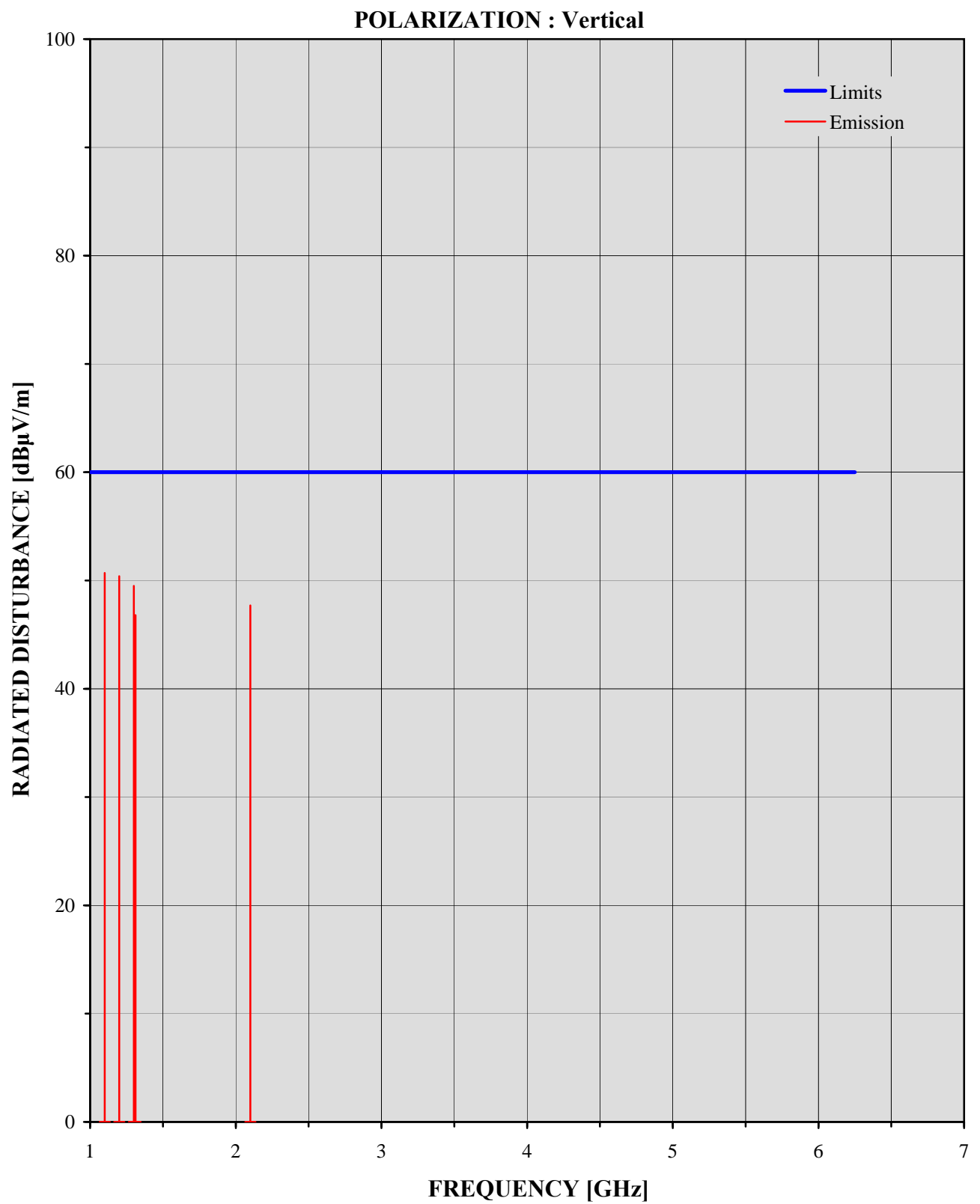
Polarization Vertical

| Frequency (GHz) | Reading (dBμV) | Cor.F. (dB/m) | DATA No. 4 (Refer to Graph 4) | | |
|--------------------|-------------------|------------------|-------------------------------|--------------------|----------------|
| | | | Result (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 1.100 | 61.7 | -11.0 | 50.7 | 60.0 | 9.3 |
| 1.200 | 62.1 | -11.7 | 50.4 | 60.0 | 9.6 |
| 1.300 | 61.9 | -12.4 | 49.5 | 60.0 | 10.5 |
| 1.312 | 59.2 | -12.4 | 46.8 | 60.0 | 13.2 |
| 2.100 | 58.9 | -11.2 | 47.7 | 60.0 | 12.3 |

Note

- A sample calculation: Cor. F. (correction factor)= antenna factor + cable loss- amp.gain
Result = Reading + Cor. F.
Margin = Limit- Result

Graph 4



Radiated Disturbance Measurements (1 GHz to 6.25 GHz)**Test Specification**

Applied standard : FCC Part 15, Subpart B
Class A

EUT

Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

Operating mode of EUT during the test

Ageing

Test Condition

Applied Power : AC 120 V, 60 Hz
Single phase 3-wire
Date : January 6, 2021
Test venue : No.8 Open site
Distance : 3 m
Detection : Peak
Temperature : 17°C
Humidity : 61 %
Operator : K. Matsuo

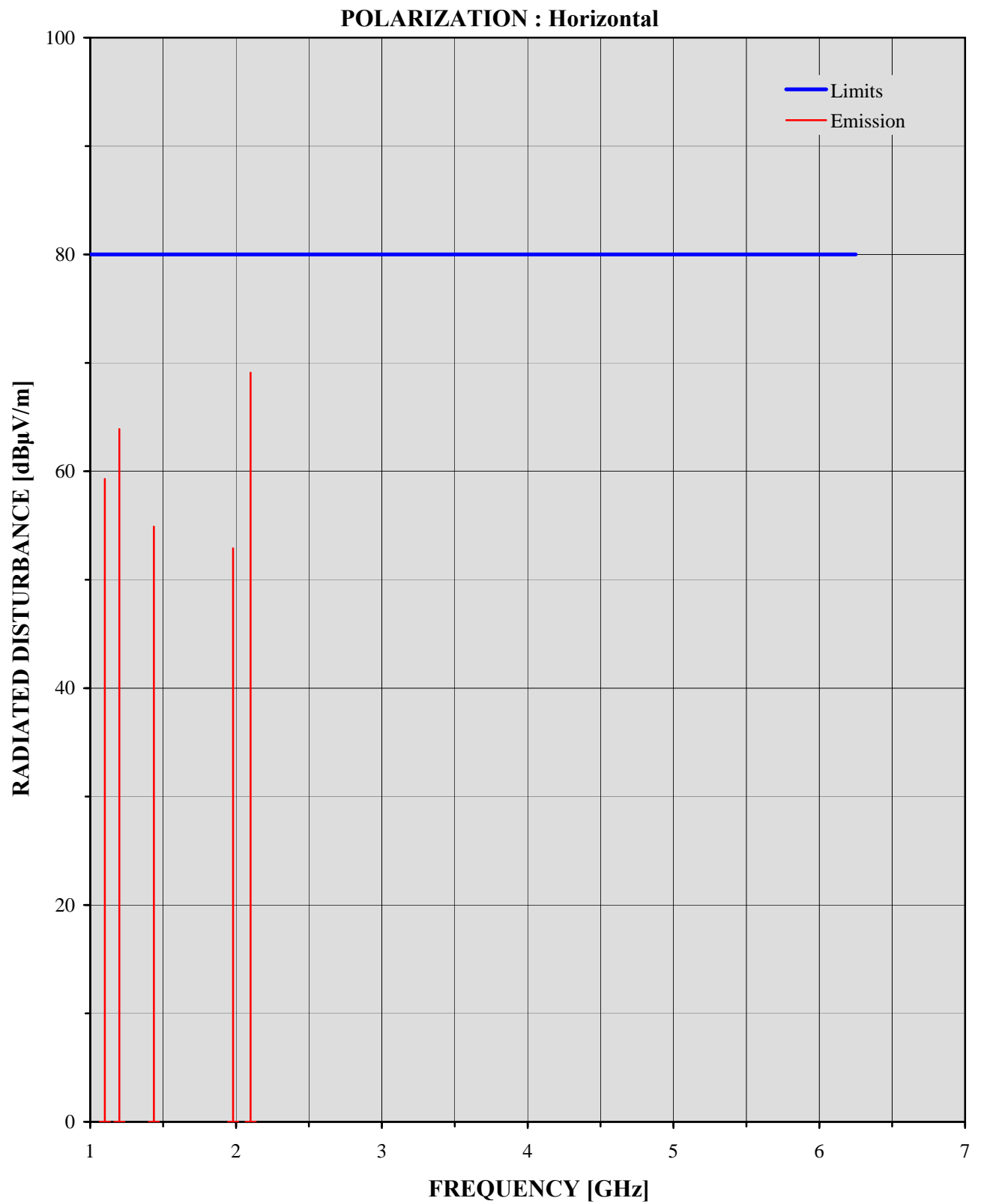
Polarization Horizontal

| Frequency (GHz) | Reading (dBμV) | Cor.F. (dB/m) | DATA No. 5 | | (Refer to Graph 5) |
|--------------------|-------------------|------------------|--------------------|--------------------|---------------------|
| | | | Result (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 1.100 | 70.3 | -11.0 | 59.3 | 80.0 | 20.7 |
| 1.200 | 75.6 | -11.7 | 63.9 | 80.0 | 16.1 |
| 1.437 | 68.2 | -13.3 | 54.9 | 80.0 | 25.1 |
| 1.980 | 64.4 | -11.5 | 52.9 | 80.0 | 27.1 |
| 2.100 | 80.3 | -11.2 | 69.1 | 80.0 | 10.9 |

Note

- A sample calculation: Cor. F. (correction factor)= antenna factor + cable loss- amp.gain
Result = Reading + Cor. F.
Margin = Limit- Result

Graph 5



Radiated Disturbance Measurements (1 GHz to 6.25 GHz)**Test Specification**

Applied standard : FCC Part 15, Subpart B
Class A

EUT

Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

Operating mode of EUT during the test

Ageing

Test Condition

Applied Power : AC 120 V, 60 Hz
Single phase 3-wire
Date : January 6, 2021
Test venue : No.8 Open site
Distance : 3 m
Detection : Average
Temperature : 17°C
Humidity : 61 %
Operator : K. Matsuo

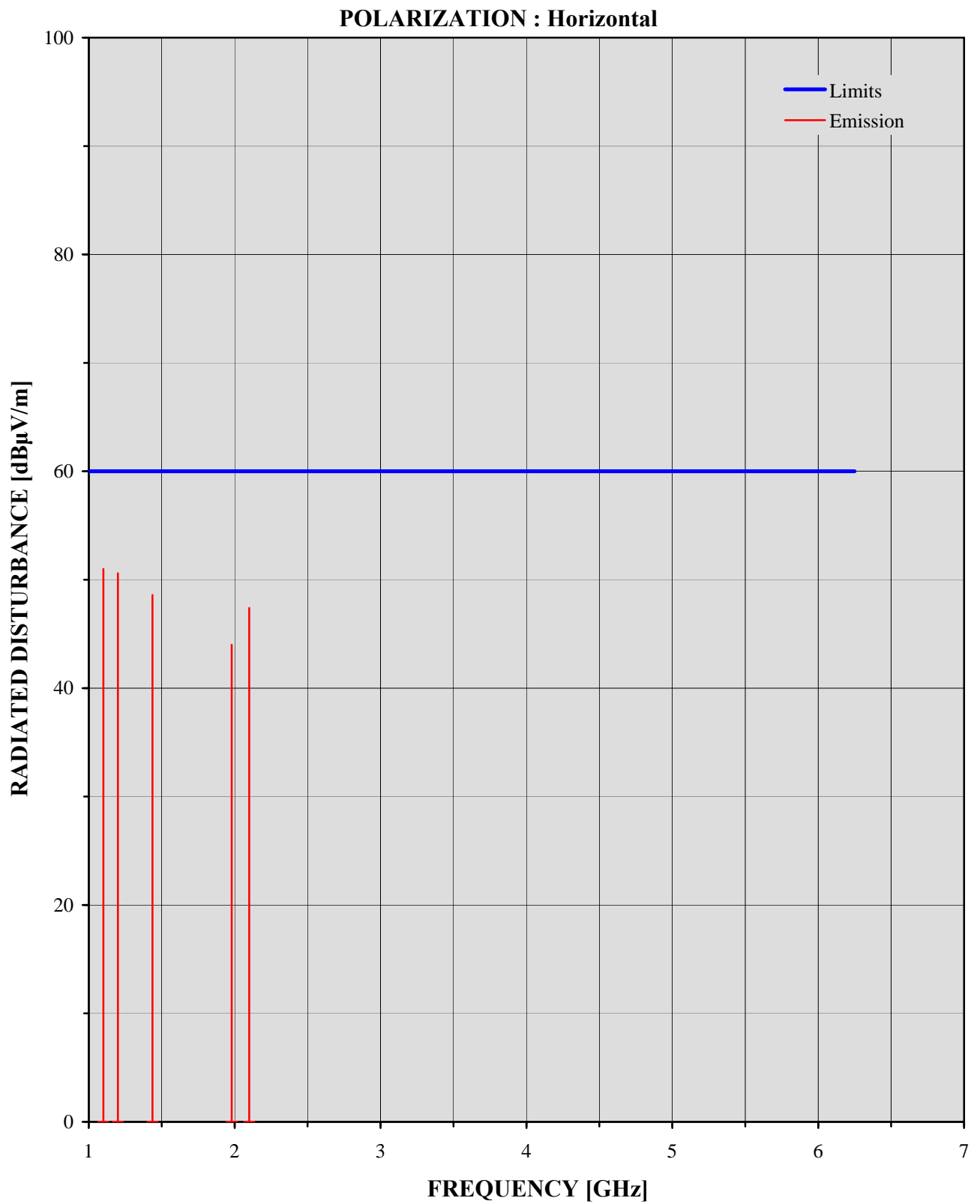
Polarization Horizontal

| Frequency (GHz) | Reading (dBμV) | Cor.F. (dB/m) | DATA No. 6 (Refer to Graph 6) | | |
|--------------------|-------------------|------------------|-------------------------------|--------------------|----------------|
| | | | Result (dBμV/m) | Limits (dBμV/m) | Margin (dB) |
| 1.100 | 62.0 | -11.0 | 51.0 | 60.0 | 9.0 |
| 1.200 | 62.3 | -11.7 | 50.6 | 60.0 | 9.4 |
| 1.437 | 61.9 | -13.3 | 48.6 | 60.0 | 11.4 |
| 1.980 | 55.5 | -11.5 | 44.0 | 60.0 | 16.0 |
| 2.100 | 58.6 | -11.2 | 47.4 | 60.0 | 12.6 |

Note

- A sample calculation: Cor. F. (correction factor)= antenna factor + cable loss- amp.gain
Result = Reading + Cor. F.
Margin = Limit- Result

Graph 6



Conducted Disturbance Measurements**Test Specification**

Applied standard : FCC Part 15, Subpart B
Class A

EUT

Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

Test Condition

Applied Power : AC 120 V, 60 Hz
Single phase 3-wire
Date : January 7, 2021
Test venue : No.8 Open site
Temperature : 17°C
Humidity : 61 %
Operator : K. Matsuo

Operating mode of EUT during the test

Ageing

Measured AC line: C2 (I connected and tested two at the same time.)[†]

Detection**Q.P.**

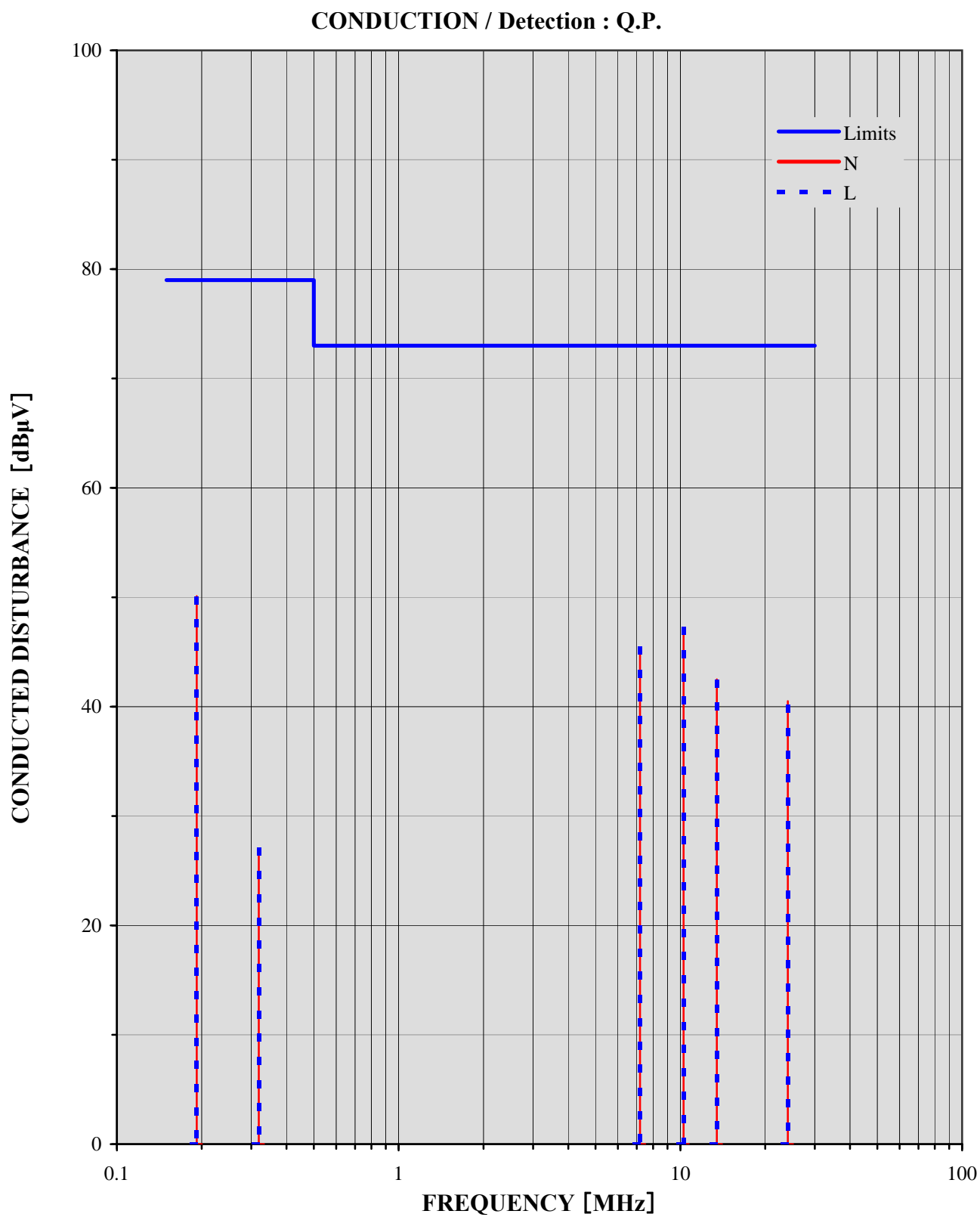
| Frequency (MHz) | Reading (dBμV) N L | | Cor.F. (dB) N L | | DATA No. 7 | | (Refer to Graph 7) | | |
|--------------------|--------------------------|------|-----------------------|------|------------|------|--------------------|----------------|------|
| | | | | | Result | | Limits (dBμV) | Margin (dB) | |
| | | | | | N | L | | | |
| 0.192 | 40.2 | 40.0 | 9.9 | 9.9 | 50.1 | 49.9 | 79.0 | 28.9 | 29.1 |
| 0.319 | 16.8 | 17.0 | 9.9 | 9.9 | 26.7 | 26.9 | 79.0 | 52.3 | 52.1 |
| 7.189 | 35.0 | 35.0 | 10.3 | 10.3 | 45.3 | 45.3 | 73.0 | 27.7 | 27.7 |
| 10.267 | 36.8 | 36.7 | 10.4 | 10.4 | 47.2 | 47.1 | 73.0 | 25.8 | 25.9 |
| 13.472 | 32.0 | 31.8 | 10.5 | 10.5 | 42.5 | 42.3 | 73.0 | 30.5 | 30.7 |
| 24.061 | 29.8 | 29.0 | 10.7 | 11.0 | 40.5 | 40.0 | 73.0 | 32.5 | 33.0 |

Note

- A sample calculation: Cor. F. (correction factor)= LISN(AMN) voltage division factor + cable loss
Result = Reading + Cor. F.
Margin = Limit- Result

[†] : By the request from the client.

Graph 7



Conducted Disturbance Measurements**Test Specification**

Applied standard : FCC Part 15, Subpart B
Class A

EUT

Category : NOTE SORTER
Model Name : Ks (With DB PCB)
Serial Number : 0000002

Test Condition

Applied Power : AC 120 V, 60 Hz
Single phase 3-wire
Date : January 7, 2021
Test venue : No.8 Open site
Temperature : 17°C
Humidity : 61 %
Operator : K. Matsuo

Operating mode of EUT during the test

Ageing

Measured AC line: C2 (I connected and tested two at the same time.)[†]

| Detection | | Average | | | | DATA No. 8 | | (Refer to Graph 8) | |
|--------------------|-------------------|----------------|------|------------------|------------------|-------------------|------|---------------------------|---|
| Frequency (MHz) | Reading (dBμV) | Cor.F. (dB) | | Result (dBμV) | Limits (dBμV) | Margin (dB) | | | |
| | N L | N | L | N L | | N | L | N | L |
| 0.192 | 29.2 28.5 | 9.9 | 9.9 | 39.1 38.4 | 66.0 | 26.9 | 27.6 | | |
| 0.319 | 10.3 10.3 | 9.9 | 9.9 | 20.2 20.2 | 66.0 | 45.8 | 45.8 | | |
| 7.189 | 29.2 29.3 | 10.3 | 10.3 | 39.5 39.6 | 60.0 | 20.5 | 20.4 | | |
| 10.267 | 31.3 31.7 | 10.4 | 10.4 | 41.7 42.1 | 60.0 | 18.3 | 17.9 | | |
| 13.472 | 27.3 27.6 | 10.5 | 10.5 | 37.8 38.1 | 60.0 | 22.2 | 21.9 | | |
| 24.061 | 26.2 26.3 | 10.7 | 11.0 | 36.9 37.3 | 60.0 | 23.1 | 22.7 | | |

Note

- A sample calculation: Cor. F. (correction factor)= LISN(AMN) voltage division factor + cable loss
Result = Reading + Cor. F.
Margin = Limit- Result

[†] : By the request from the client.

Graph 8

