

# EMI TEST REPORT

## Test Report No.15860840S-E

|                     |                                  |
|---------------------|----------------------------------|
| Customer            | Foster Electric Company, Limited |
| Description of EUT  | Mercedes-Benz Headphones         |
| Model Number of EUT | MB WHP 2                         |
| FCC ID              | 2ASG7649918                      |
| Test Regulation     | FCC Part 15 Subpart B, Class B   |
| Test Result         | Complied                         |
| Issue Date          | August 8, 2025                   |
| Remarks             | -                                |

Representative test engineer

*N. Saga*Naoki Saga  
Engineer

Approved by

*T. Imamura*Toyokazu Imamura  
Engineer

CERTIFICATE 1266.03

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- ☒ There is no testing item of "Non-accreditation".

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- For any test report referred in this report, the latest version (including any revisions) is always referred to.
- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

## **REVISION HISTORY**

| Revision     | Test report No. | Date           | Revised Contents |
|--------------|-----------------|----------------|------------------|
| - (Original) | 15860840S-E     | August 8, 2025 | -                |

**Reference: Abbreviations (Including words undescribed in this report)**

|                  |                                                                 |                 |                                                                             |
|------------------|-----------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------|
| A2LA             | The American Association for Laboratory Accreditation           | ICES            | Interference-Causing Equipment Standard                                     |
| AAN              | Asymmetric Artificial Network                                   | I/O             | Input/Output                                                                |
| AC               | Alternating Current                                             | IEC             | International Electrotechnical Commission                                   |
| AE               | Auxiliary equipment                                             | IEEE            | Institute of Electrical and Electronics Engineers                           |
| AM               | Amplitude Modulation                                            | IF              | Intermediate Frequency                                                      |
| AMN              | Artificial Mains Network                                        | ILAC            | International Laboratory Accreditation Conference                           |
| Amp, AMP         | Amplifier                                                       | ISED            | Innovation, Science and Economic Development Canada                         |
| ANSI             | American National Standards Institute                           | ISN             | Impedance Stabilization Network                                             |
| Ant, ANT         | Antenna                                                         | ISO             | International Organization for Standardization                              |
| AP               | Access Point                                                    | JAB             | Japan Accreditation Board                                                   |
| ASK              | Amplitude Shift Keying                                          | LAN             | Local Area Network                                                          |
| Atten., ATT      | Attenuator                                                      | LCL             | Longitudinal Conversion Loss                                                |
| AV               | Average                                                         | LIMS            | Laboratory Information Management System                                    |
| BPSK             | Binary Phase-Shift Keying                                       | LISN            | Line Impedance Stabilization Network                                        |
| BR               | Bluetooth Basic Rate                                            | MRA             | Mutual Recognition Arrangement                                              |
| BT               | Bluetooth                                                       | N/A             | Not Applicable                                                              |
| BT LE            | Bluetooth Low Energy                                            | NIST            | National Institute of Standards and Technology                              |
| BW               | BandWidth                                                       | NS              | No signal detect.                                                           |
| C.F              | Correction Factor                                               | NSA             | Normalized Site Attenuation                                                 |
| Cal Int          | Calibration Interval                                            | OBW             | Occupied BandWidth                                                          |
| CAV              | CISPR AV                                                        | OFDM            | Orthogonal Frequency Division Multiplexing                                  |
| CCK              | Complementary Code Keying                                       | PER             | Packet Error Rate                                                           |
| CDN              | Coupling Decoupling Network                                     | PK              | Peak                                                                        |
| Ch., CH          | Channel                                                         | P <sub>LT</sub> | long-term flicker severity                                                  |
| CISPR            | Comite International Special des Perturbations Radioelectriques | POHC(A)         | Partial Odd Harmonic Current                                                |
| Corr.            | Correction                                                      | Pol., Pola.     | Polarization                                                                |
| CPE              | Customer premise equipment                                      | PR-ASK          | Phase Reversal ASK                                                          |
| CW               | Continuous Wave                                                 | P <sub>ST</sub> | short-term flicker severity                                                 |
| DBPSK            | Differential BPSK                                               | QAM             | Quadrature Amplitude Modulation                                             |
| DC               | Direct Current                                                  | QP              | Quasi-Peak                                                                  |
| DET              | Detector                                                        | QPSK            | Quadrature Phase Shift Keying                                               |
| D-factor, D.fac. | Distance factor                                                 | r.m.s., RMS     | Root Mean Square                                                            |
| Dmax             | maximum absolute voltage change during an observation period    | RBW             | Resolution BandWidth                                                        |
| DQPSK            | Differential QPSK                                               | RE              | Radio Equipment                                                             |
| DSSS             | Direct Sequence Spread Spectrum                                 | REV             | Reverse                                                                     |
| DUT              | Device Under Test                                               | RF              | Radio Frequency                                                             |
| EDR              | Enhanced Data Rate                                              | RFID            | Radio Frequency Identifier                                                  |
| e.i.r.p., EIRP   | Equivalent Isotropically Radiated Power                         | RNSS            | Radio Navigation Satellite Service                                          |
| EM clamp         | Electromagnetic clamp                                           | RSS             | Radio Standards Specifications                                              |
| EMC              | ElectroMagnetic Compatibility                                   | Rx              | Receiving                                                                   |
| EMI              | ElectroMagnetic Interference                                    | S.fac.          | Site factor                                                                 |
| EMS              | ElectroMagnetic Susceptibility                                  | SINAD           | Ratio of (Signal + Noise + Distortion) to (Noise + Distortion)              |
| EN               | European Norm                                                   | S/N             | Signal to Noise ratio                                                       |
| e.r.p., ERP      | Effective Radiated Power                                        | SA, S/A         | Spectrum Analyzer                                                           |
| ETSI             | European Telecommunications Standards Institute                 | SABS            | South African Bureau of Standards                                           |
| EU               | European Union                                                  | SANS            | South African National Standards                                            |
| EUT              | Equipment Under Test                                            | SG              | Signal Generator                                                            |
| Fac.             | Factor                                                          | SVSWR           | Site-Voltage Standing Wave Ratio                                            |
| FCC              | Federal Communications Commission                               | THC(A)          | Total Harmonic Current                                                      |
| FHSS             | Frequency Hopping Spread Spectrum                               | THD(%)          | Total Harmonic Distortion                                                   |
| FM               | Frequency Modulation                                            | TR, T/R         | Test Receiver                                                               |
| Freq.            | Frequency                                                       | Tx              | Transmitting                                                                |
| FSK              | Frequency Shift Keying                                          | VBW             | Video BandWidth                                                             |
| Fund             | Fundamental                                                     | Vert.           | Vertical                                                                    |
| FWD              | Forward                                                         | WLAN            | Wireless LAN                                                                |
| GFSK             | Gaussian Frequency-Shift Keying                                 | xDSL            | Generic term for all types of DSL technology (DSL: Digital Subscriber Line) |
| GNSS             | Global Navigation Satellite System                              |                 |                                                                             |
| GPS              | Global Positioning System                                       |                 |                                                                             |
| Hori.            | Horizontal                                                      |                 |                                                                             |
| HPF              | High-Pass Filter                                                |                 |                                                                             |

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**Section 1: Customer information**

|                  |                                                               |
|------------------|---------------------------------------------------------------|
| Company Name     | Foster Electric Company, Limited                              |
| Address          | 1-1-109, Tsutsujigaoka, Akishima City, Tokyo, 196-8550, Japan |
| Telephone Number | +81-42-546-2311                                               |
| Contact Person   | Shinsaku Morita                                               |

The information provided by the customer is as follows:

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- Section 1: Customer information
- Section 2: Equipment under test (EUT) other than the Receipt Date and Test Date
- Section 4: Operation of EUT during testing

**Section 2 : Equipment under test (EUT)****2.1 Identification of EUT**

|               |                                                                                            |
|---------------|--------------------------------------------------------------------------------------------|
| Description   | Mercedes-Benz Headphones                                                                   |
| Model Number  | MB WHP 2                                                                                   |
| Serial Number | Refer to 4.2                                                                               |
| Condition     | Engineering prototype<br>(Not for Sale: This sample is equivalent to mass-produced items.) |
| Modification  | No Modification by the test lab.                                                           |
| Receipt Date  | June 9, 2025                                                                               |
| Test Date     | June 9, 2025                                                                               |

**2.2 Product description****General Specification**

|                                     |                                                         |
|-------------------------------------|---------------------------------------------------------|
| Rating                              | DC 3.2 V (DC 3.0 V to 3.65 V) (Battery), DC 5.0 V (USB) |
| Clock frequency (ies) in the system | 32 MHz                                                  |

**Radio Specification**

|                        |                                   |
|------------------------|-----------------------------------|
| Equipment Type         | Transceiver                       |
| Frequency of Operation | 2402 MHz to 2480 MHz              |
| Type of Modulation     | FHSS, GFSK, $\pi/4$ DQPSK, 8 DPSK |

## Section 3 : Test summary

### 3.1 Test specification

|                    |                                                                                    |
|--------------------|------------------------------------------------------------------------------------|
| Test Specification | FCC Part 15 Subpart B<br>The latest version on the first day of the testing period |
| Title              | FCC 47CFR Part15 Radio Frequency Device<br>Subpart B Unintentional Radiators       |

### 3.2 Reference standards

ANSI/USEMCSC C63.2-2023  
ANSI C63.4-2014/C63.4a-2017  
ANSI C63.5-2017  
ANSI C63.25.1-2018

### 3.3 Summary of test results

| Item                                                                                                                     | Limits  | Result   | Remarks |
|--------------------------------------------------------------------------------------------------------------------------|---------|----------|---------|
| Conducted emission                                                                                                       | Class B | Complied | -       |
| Radiated emission                                                                                                        | Class B | Complied | *1)     |
| Note: UL Japan's EMI work procedure: Work Instructions-ULID-003591                                                       |         |          |         |
| *1) Measurements have been performed up to 13 GHz since the highest frequency of internal source of the EUT is 2480 MHz. |         |          |         |

### 3.4 Deviation from standard

No addition, exclusion nor deviation has been made from the standard.

### 3.5 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.  
Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor  $k = 2$ .

| Item                                             | Frequency range   | Calculated Uncertainty ( $\pm$ ) |
|--------------------------------------------------|-------------------|----------------------------------|
| Conducted emission<br>(AC Mains) AMN/LISN        | 9 kHz to 150 kHz  | 3.1 dB                           |
|                                                  | 150 kHz to 30 MHz | 3.0 dB                           |
| Radiated emission<br>(Measurement distance: 3 m) | 30 MHz to 200 MHz | 4.8 dB                           |
|                                                  | 200 MHz to 1 GHz  | 6.1 dB                           |
| Radiated emission<br>(Measurement distance: 3 m) | 1 GHz to 6 GHz    | 4.7 dB                           |
|                                                  | 6 GHz to 18 GHz   | 5.3 dB                           |
|                                                  | 18 GHz to 40 GHz  | 5.5 dB                           |

### 3.6 Test location

UL Japan, Inc. Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 Japan

Telephone number : +81-463-50-6400

A2LA Certificate Number : 1266.03

(FCC Test firm registration number: 626366, ISED lab company number: 2973D / CAB identifier: JP0001)

| Test room                          | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Maximum measurement distance |
|------------------------------------|----------------------------|------------------------------------------------------------------|------------------------------|
| No.1 Semi-anechoic chamber (SAC1)  | 20.6 x 11.3 x 7.65         | 20.6 x 11.3                                                      | 10 m                         |
| No.2 Semi-anechoic chamber (SAC2)  | 20.6 x 11.3 x 7.65         | 20.6 x 11.3                                                      | 10 m                         |
| No.3 Semi-anechoic chamber (SAC3)  | 12.7 x 7.7 x 5.35          | 12.7 x 7.7                                                       | 5 m                          |
| No.4 Semi-anechoic chamber (SAC4)  | 8.1 x 5.1 x 3.55           | 8.1 x 5.1                                                        | -                            |
| Wireless anechoic chamber 1 (WAC1) | 9.5 x 6.0 x 5.4            | 9.5 x 6.0                                                        | 3 m                          |
| Wireless anechoic chamber 2 (WAC2) | 9.5 x 6.0 x 5.4            | 9.5 x 6.0                                                        | 3 m                          |
| No.1 Shielded room (SR1)           | 6.8 x 4.1 x 2.7            | 6.8 x 4.1                                                        | -                            |
| No.2 Shielded room (SR2)           | 6.8 x 4.1 x 2.7            | 6.8 x 4.1                                                        | -                            |
| No.3 Shielded room (SR3)           | 6.3 x 4.7 x 2.7            | 6.3 x 4.7                                                        | -                            |
| No.4 Shielded room (SR4)           | 4.4 x 4.7 x 2.7            | 4.4 x 4.7                                                        | -                            |
| No.5 Shielded room (SR5)           | 7.8 x 6.4 x 2.7            | 7.8 x 6.4                                                        | -                            |
| No.6 Shielded room (SR6)           | 7.8 x 6.4 x 2.7            | 7.8 x 6.4                                                        | -                            |
| No.8 Shielded room (SR8)           | 3.45 x 5.5 x 2.4           | 3.45 x 5.5                                                       | -                            |
| No.1 Measurement room (MR1)        | 2.55 x 4.1 x 2.5           | -                                                                | -                            |
| No.2 Measurement room (MR2)        | 4.5 x 3.5 x 2.5            | -                                                                | -                            |
| Wireless shielded room 1 (WSR1)    | 3.0 x 4.5 x 2.7            | 3.0 x 4.5                                                        | -                            |
| Wireless shielded room 2 (WSR2)    | 3.0 x 4.5 x 2.7            | 3.0 x 4.5                                                        | -                            |

### 3.7 Test setup, test data & test instruments

Refer to Appendix 1 to 3.

## Section 4 : Operation of EUT during testing

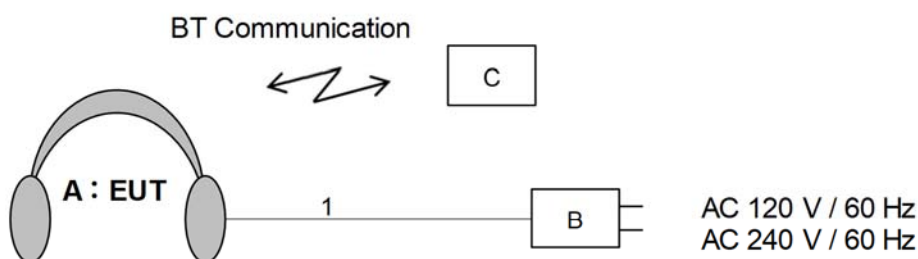
### 4.1 Operating modes

The EUT exercise program used during testing was designed to exercise the various system components in a manner similar to typical use.

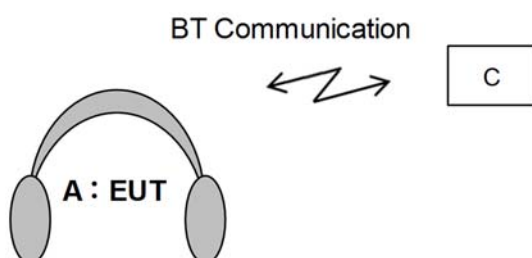
|                   |                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------|
| Operation mode(s) | 1. Charge + BT Communication<br>2. BT Communication                                             |
| Software          | Ver 0.7.9                                                                                       |
| Justification     | The system was configured in typical fashion (as a customer would normally use it) for testing. |

### 4.2 Configuration and peripherals

#### Charge + BT Communication



#### BT Communication



\* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

#### Description of EUT and Support equipment

| No. | Item                     | Model number | Serial number     | Manufacturer                     | Remarks |
|-----|--------------------------|--------------|-------------------|----------------------------------|---------|
| A   | Mercedes-Benz Headphones | MB WHP 2     | 5P514A000025      | Foster Electric Company, Limited | EUT     |
| B   | AC Adapter               | A1720        | FNT948333A4L9J9A0 | Apple                            | -       |
| C   | Smart Phone              | E6653        | BH904ALL4Z        | Sony Corporation                 | -       |

#### List of cables used

| No. | Cable | Length (m) | Shield-Cable | Shield-Connector | Remarks |
|-----|-------|------------|--------------|------------------|---------|
| 1   | USB   | 1.3        | Shielded     | Shielded         | -       |

## Section 5 : Conducted emission

### 5.1 Test conditions

|                 |                    |
|-----------------|--------------------|
| Frequency range | 0.15 MHz to 30 MHz |
| EUT position    | Table top          |

### 5.2 Test configuration

The EUT was placed on a platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting plane. The rear of EUT, including peripherals was aligned and was flushed with rear of tabletop. All other surfaces of tabletop were at least 80 cm from any other grounded conducting surface. The EUT was located 0.8 m from Line Impedance Stabilization Network (LISN). Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN to the input power source. Photographs of the setup are shown in Appendix 3.

### 5.3 Test procedure

The emission had been measured with the EUT in the shielded room. An overview sweep with peak detection has been performed. The measurements had been performed with a quasi-peak detector and if required, with a CISPR average detector (CAV).

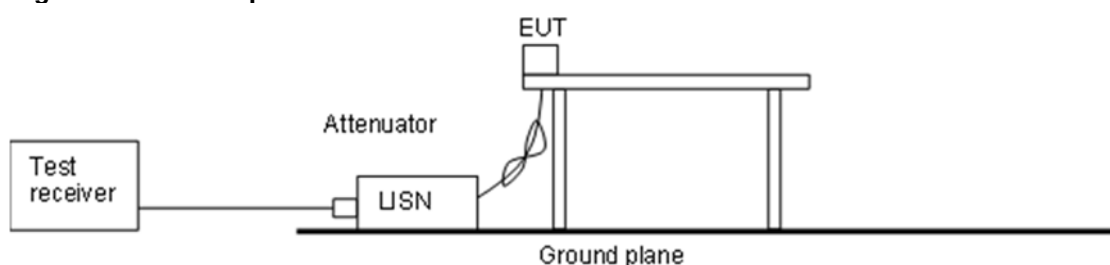
The conducted emission measurements were made with the following detector function.

|               |               |
|---------------|---------------|
| Detector Type | QP / CAV      |
| IF Bandwidth  | 9 kHz / 9 kHz |

### 5.4 Results

Summary of the test results: Pass

Figure 1. Test Setup



## Section 6 : Radiated emission

### 6.1 Test conditions

|                 |                  |
|-----------------|------------------|
| Frequency range | 30 MHz to 13 GHz |
| EUT position    | Table top        |

### 6.2 Test configuration

The EUT was placed on a platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The table is made of expanded polystyrol and expanded polypropylene and the table top is covered with polycarbonate. That has very low permittivity. Photographs of the setup are shown in Appendix 3.

### 6.3 Test procedure

The Radiated Electric Field Strength intensity has been measured in a Semi-Anechoic Chamber with a ground plane at a distance 3 m.  
The boundary of the EUT is defined by an imaginary circular periphery.

The measuring antenna height was varied between 1 m and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.  
The measurements were performed for both vertical and horizontal antenna polarization.  
Test antenna was aimed at the emission source for receiving the maximum signal and always kept. (above 1 GHz)

The radiated emission measurements were made with the following detector function.

|               |                                       |                                     |                      |
|---------------|---------------------------------------|-------------------------------------|----------------------|
|               | 30 MHz to 1000 MHz<br>(Test receiver) | 1 GHz to 13 GHz (Spectrum analyzer) |                      |
| Detector Type | QP                                    | AV *1)                              | PK                   |
| IF Bandwidth  | 120 kHz                               | RBW 1 MHz/ VBW 10 Hz                | RBW 1 MHz/ VBW 3 MHz |

\*1) When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

### 6.4 Results

Summary of the test results: Pass

Figure 2. Antenna angle

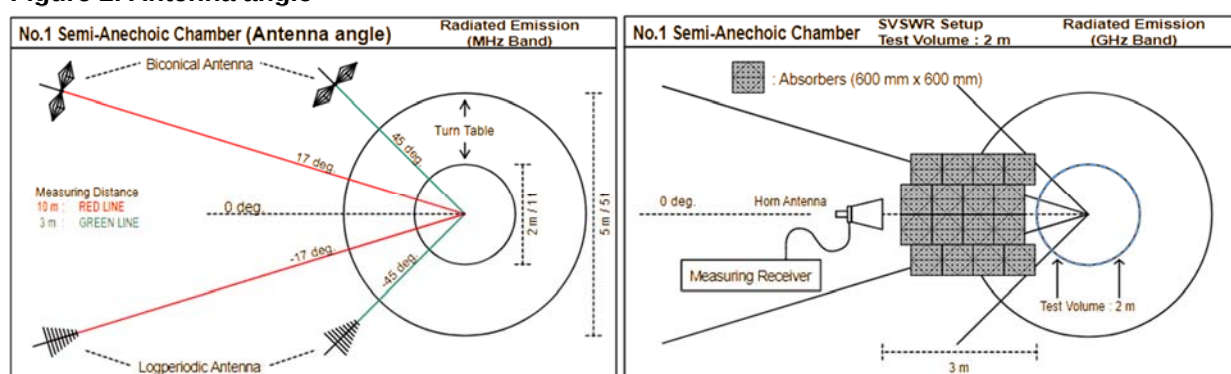
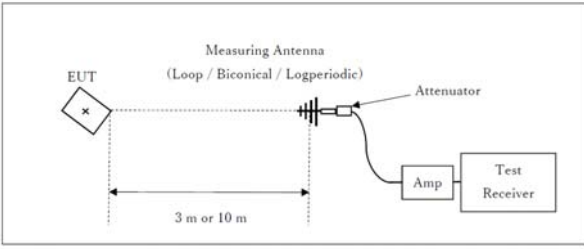
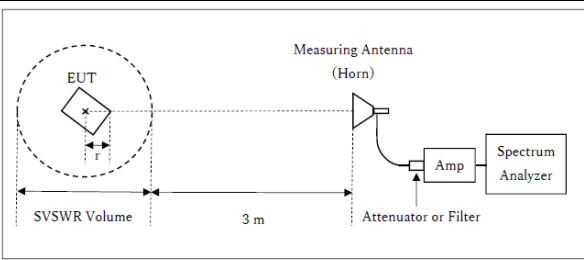


Figure 3. Test Setup

|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Below 1 GHz</b></p>  <p>× : Center of turn table</p>                                                 | <p>Test Distance: 3 m</p>                                                                                                                                                                                                                                                                            |
| <p><b>1 GHz to 13 GHz</b></p>  <p>r : Radius of an outer periphery of EUT<br/>× : Center of turn table</p> | <p>Distance Factor: <math>20 \times \log (3.90 \text{ m}^*/3.0 \text{ m}) = 2.28 \text{ dB}</math><br/> * Test Distance: <math>(3 + \text{SVSWR Volume} / 2) - r = 3.90 \text{ m}</math></p> <p>SVSWR Volume: 2 m<br/> (SVSWR Volume has been calibrated based on CISPR 16-1-4.)<br/> r = 0.10 m</p> |

Distance Factor is based on FCC Subpart A Section 15.31 (f).

The noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.1 Shielded Room  
Date : 2025/06/09

Company : Foster Electric Company, Limited

Kind of EUT : Mercedes-Benz Headphones

Model No. : MB WHP 2

Serial No. : Refer to Section 4, Clause 4.2

Remarks : -

Mode : Charge + BT Communication

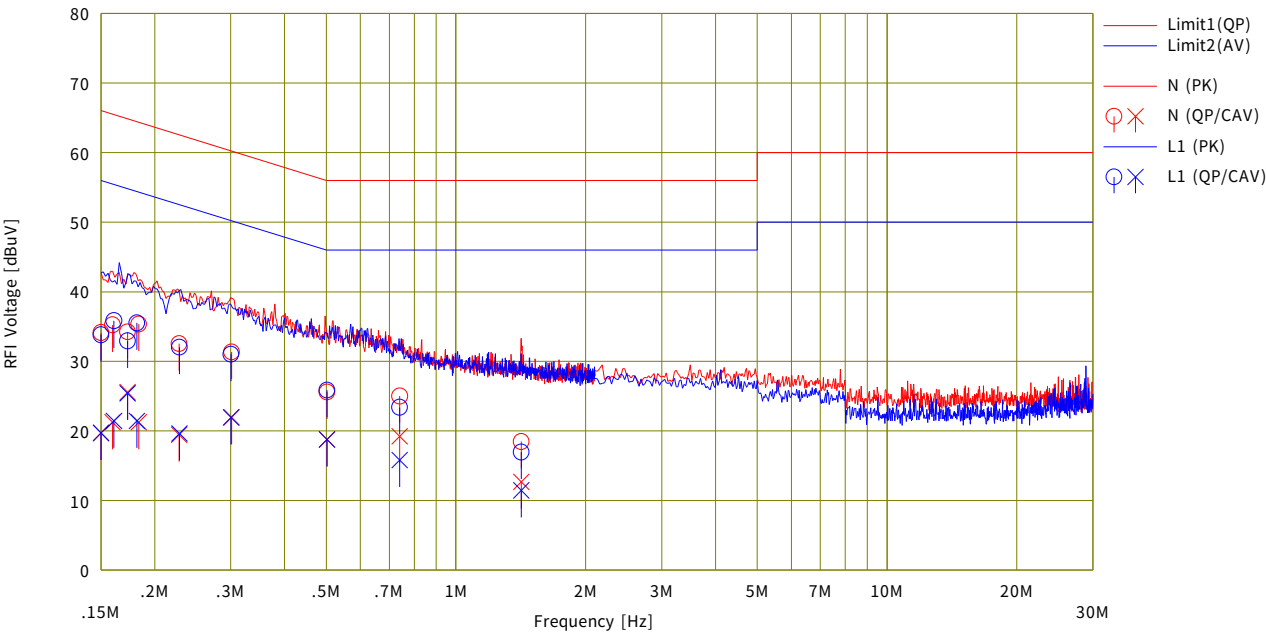
Order No. : 15860840

Power : AC 120 V / 60 Hz (AC Adapter)

Temp./Humi. : 23 deg.C / 59 %RH

Limit : FCC\_Part 15 Subpart B(15.107)\_Class B

Engineer : Naoki Saga



| No. | Freq.   | Reading |        | C.Fac | Results |        | Limit  |        | Margin |      | Phase | Comment |
|-----|---------|---------|--------|-------|---------|--------|--------|--------|--------|------|-------|---------|
|     |         | <QP>    | <CAV>  |       | <QP>    | <CAV>  | <QP>   | <AV>   | <QP>   | <AV> |       |         |
|     | [MHz]   | [dBuV]  | [dBuV] |       | [dBuV]  | [dBuV] | [dBuV] | [dBuV] | [dB]   | [dB] |       |         |
| 1   | 0.15000 | 18.90   | 4.50   | 15.22 | 34.12   | 19.72  | 66.00  | 56.00  | 31.8   | 36.2 | N     |         |
| 2   | 0.15978 | 20.00   | 6.00   | 15.23 | 35.23   | 21.23  | 65.48  | 55.48  | 30.2   | 34.2 | N     |         |
| 3   | 0.17287 | 19.00   | 10.30  | 15.24 | 34.24   | 25.54  | 64.82  | 54.82  | 30.5   | 29.2 | N     |         |
| 4   | 0.18378 | 20.10   | 6.00   | 15.23 | 35.33   | 21.23  | 64.31  | 54.31  | 28.9   | 33.0 | N     |         |
| 5   | 0.22779 | 17.30   | 4.20   | 15.24 | 32.54   | 19.44  | 62.53  | 52.53  | 29.9   | 33.0 | N     |         |
| 6   | 0.30156 | 16.10   | 6.70   | 15.24 | 31.34   | 21.94  | 60.20  | 50.20  | 28.8   | 28.2 | N     |         |
| 7   | 0.50183 | 10.30   | 3.50   | 15.28 | 25.58   | 18.78  | 56.00  | 46.00  | 30.4   | 27.2 | N     |         |
| 8   | 0.74051 | 9.70    | 3.90   | 15.30 | 25.00   | 19.20  | 56.00  | 46.00  | 31.0   | 26.8 | N     |         |
| 9   | 1.41749 | 3.10    | -2.70  | 15.37 | 18.47   | 12.67  | 56.00  | 46.00  | 37.5   | 33.3 | N     |         |
| 10  | 0.15000 | 18.60   | 4.50   | 15.21 | 33.81   | 19.71  | 66.00  | 56.00  | 32.1   | 36.2 | L1    |         |
| 11  | 0.16097 | 20.60   | 6.20   | 15.22 | 35.82   | 21.42  | 65.41  | 55.41  | 29.5   | 33.9 | L1    |         |
| 12  | 0.17303 | 17.70   | 10.20  | 15.22 | 32.92   | 25.42  | 64.81  | 54.81  | 31.8   | 29.3 | L1    |         |
| 13  | 0.18193 | 20.30   | 6.20   | 15.22 | 35.52   | 21.42  | 64.40  | 54.40  | 28.8   | 32.9 | L1    |         |
| 14  | 0.22844 | 16.80   | 4.40   | 15.23 | 32.03   | 19.63  | 62.51  | 52.51  | 30.4   | 32.8 | L1    |         |
| 15  | 0.30061 | 15.80   | 6.70   | 15.23 | 31.03   | 21.93  | 60.23  | 50.23  | 29.2   | 28.3 | L1    |         |
| 16  | 0.50181 | 10.60   | 3.50   | 15.26 | 25.86   | 18.76  | 56.00  | 46.00  | 30.1   | 27.2 | L1    |         |
| 17  | 0.74006 | 8.10    | 0.50   | 15.29 | 23.39   | 15.79  | 56.00  | 46.00  | 32.6   | 30.2 | L1    |         |
| 18  | 1.41749 | 1.60    | -3.90  | 15.35 | 16.95   | 11.45  | 56.00  | 46.00  | 39.0   | 34.5 | L1    |         |

DATA OF CONDUCTED EMISSION TEST

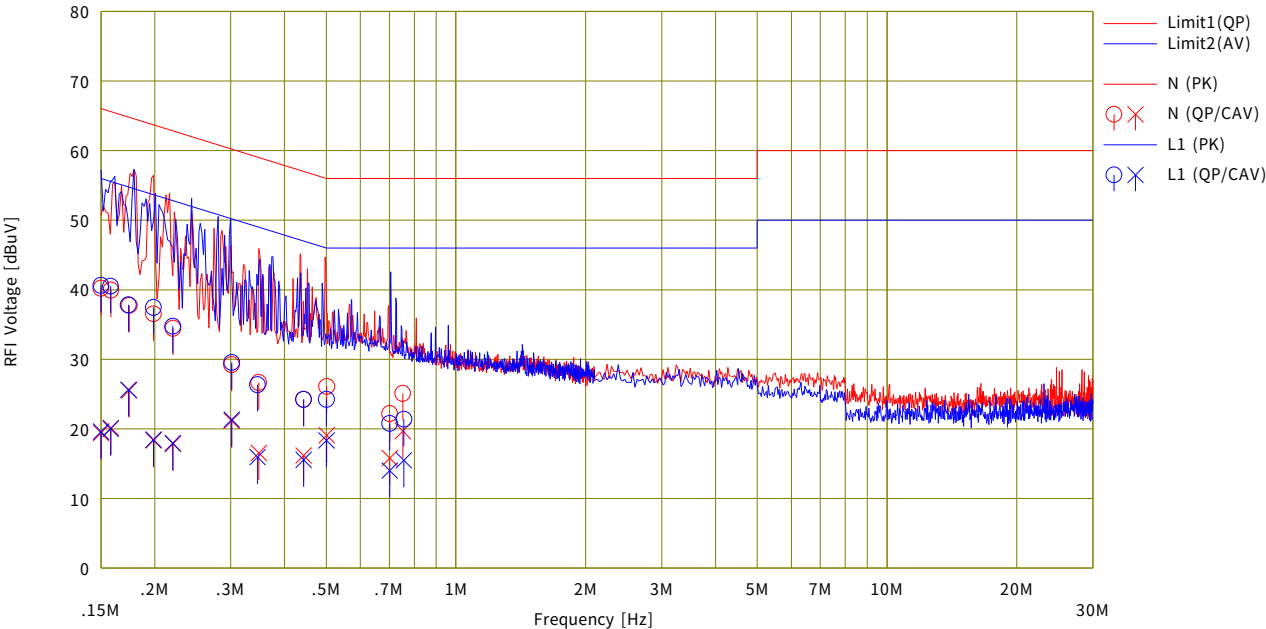
UL Japan,Inc. Shonan EMC Lab. No.1 Shielded Room  
Date : 2025/06/09

Company : Foster Electric Company, Limited  
Kind of EUT : Mercedes-Benz Headphones  
Model No. : MB WHP 2  
Serial No. : Refer to Section 4, Clause 4.2  
Remarks : -

Mode : Charge + BT Communication  
Order No. : 15860840  
Power : AC 240 V / 60 Hz (AC Adapter)  
Temp./Humi. : 23 deg.C / 59 %RH

Limit : FCC\_Part 15 Subpart B(15.107)\_Class B

Engineer : Naoki Saga



| No. | Freq.<br>[MHz] | Reading |        | C.Fac | Results |        | Limit  |        | Margin |      | Phase | Comment |
|-----|----------------|---------|--------|-------|---------|--------|--------|--------|--------|------|-------|---------|
|     |                | <QP>    | <CAV>  |       | <QP>    | <CAV>  | <QP>   | <AV>   | <QP>   | <AV> |       |         |
|     |                | [dBuV]  | [dBuV] |       | [dBuV]  | [dBuV] | [dBuV] | [dBuV] | [dB]   | [dB] |       |         |
| 1   | 0.15000        | 25.00   | 4.20   | 15.22 | 40.22   | 19.42  | 66.00  | 56.00  | 25.7   | 36.5 | N     |         |
| 2   | 0.15830        | 24.70   | 4.90   | 15.23 | 39.93   | 20.13  | 65.55  | 55.55  | 25.6   | 35.4 | N     |         |
| 3   | 0.17461        | 22.50   | 10.30  | 15.24 | 37.74   | 25.54  | 64.74  | 54.74  | 27.0   | 29.2 | N     |         |
| 4   | 0.19876        | 21.30   | 3.10   | 15.23 | 36.53   | 18.33  | 63.66  | 53.66  | 27.1   | 35.3 | N     |         |
| 5   | 0.22076        | 19.20   | 2.60   | 15.24 | 34.44   | 17.84  | 62.79  | 52.79  | 28.3   | 34.9 | N     |         |
| 6   | 0.30152        | 14.00   | 5.90   | 15.24 | 29.24   | 21.14  | 60.20  | 50.20  | 30.9   | 29.0 | N     |         |
| 7   | 0.34891        | 11.40   | 1.30   | 15.25 | 26.65   | 16.55  | 58.99  | 48.99  | 32.3   | 32.4 | N     |         |
| 8   | 0.44290        | 9.00    | 0.90   | 15.26 | 24.26   | 16.16  | 57.01  | 47.01  | 32.7   | 30.8 | N     |         |
| 9   | 0.50143        | 10.80   | 3.80   | 15.28 | 26.08   | 19.08  | 56.00  | 46.00  | 29.9   | 26.9 | N     |         |
| 10  | 0.70160        | 6.90    | 0.50   | 15.29 | 22.19   | 15.79  | 56.00  | 46.00  | 33.8   | 30.2 | N     |         |
| 11  | 0.75317        | 9.80    | 4.40   | 15.30 | 25.10   | 19.70  | 56.00  | 46.00  | 30.9   | 26.3 | N     |         |
| 12  | 0.15000        | 25.40   | 4.40   | 15.21 | 40.61   | 19.61  | 66.00  | 56.00  | 25.3   | 36.3 | L1    |         |
| 13  | 0.15810        | 25.30   | 4.80   | 15.21 | 40.51   | 20.01  | 65.56  | 55.56  | 25.0   | 35.5 | L1    |         |
| 14  | 0.17376        | 22.60   | 10.40  | 15.22 | 37.82   | 25.62  | 64.78  | 54.78  | 26.9   | 29.1 | L1    |         |
| 15  | 0.19876        | 22.20   | 3.20   | 15.24 | 37.44   | 18.44  | 63.66  | 53.66  | 26.2   | 35.2 | L1    |         |
| 16  | 0.22036        | 19.50   | 2.70   | 15.24 | 34.74   | 17.94  | 62.81  | 52.81  | 28.0   | 34.8 | L1    |         |
| 17  | 0.30208        | 14.30   | 6.10   | 15.23 | 29.53   | 21.33  | 60.19  | 50.19  | 30.6   | 28.8 | L1    |         |
| 18  | 0.34656        | 11.10   | 0.70   | 15.24 | 26.34   | 15.94  | 59.04  | 49.04  | 32.7   | 33.1 | L1    |         |
| 19  | 0.44290        | 9.00    | 0.30   | 15.24 | 24.24   | 15.54  | 57.01  | 47.01  | 32.7   | 31.4 | L1    |         |
| 20  | 0.50080        | 9.00    | 3.10   | 15.26 | 24.26   | 18.36  | 56.00  | 46.00  | 31.7   | 27.6 | L1    |         |
| 21  | 0.70160        | 5.50    | -1.30  | 15.29 | 20.79   | 13.99  | 56.00  | 46.00  | 35.2   | 32.0 | L1    |         |
| 22  | 0.75748        | 6.10    | 0.20   | 15.29 | 21.39   | 15.49  | 56.00  | 46.00  | 34.6   | 30.5 | L1    |         |

DATA OF RADIATED EMISSION TEST

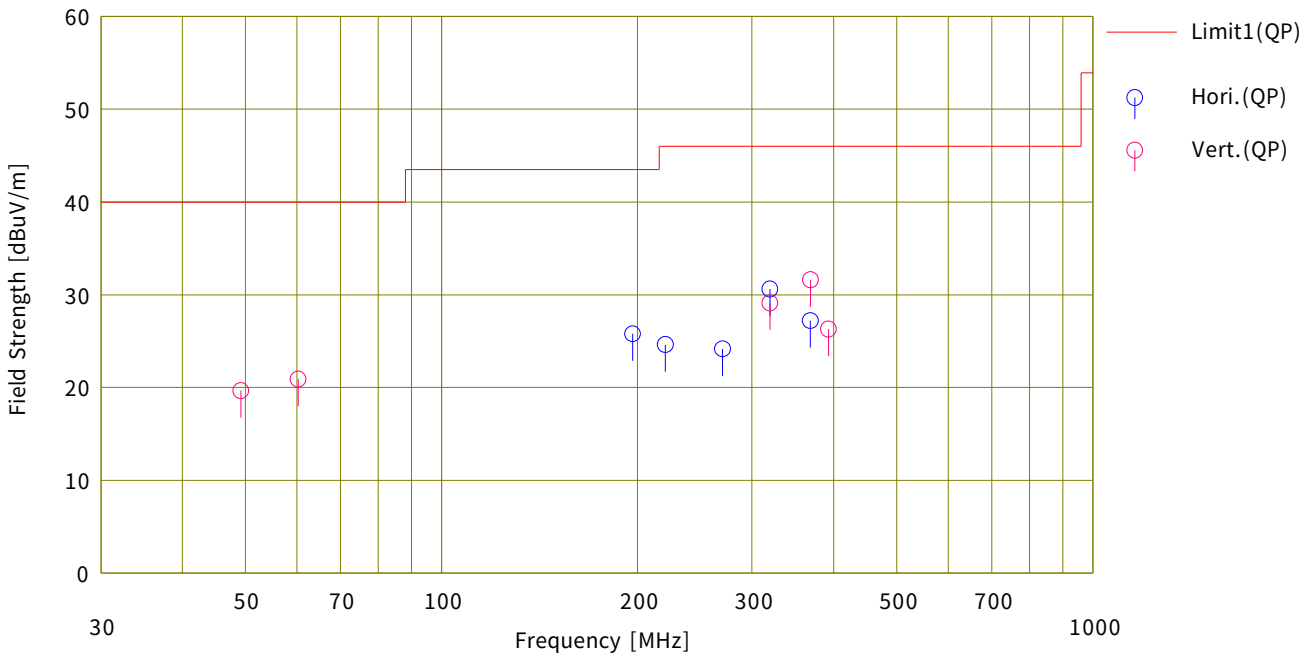
UL Japan,Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber  
Date : 2025/06/09

Company : Foster Electric Company, Limited  
Kind of EUT : Mercedes-Benz Headphones  
Model No. : MB WHP 2  
Serial No. : Refer to Section 4, Clause 4.2  
Remarks : EUT Axis Hori:X, Vert:X

Mode : Charge + BT Communication  
Order No. : 15860840  
Power : AC 120 V / 60 Hz (AC Adapter)  
Temp./Humi. : 23 deg.C / 64 %RH

Limit : FCC\_Part 15 Subpart B (15.109)\_Class B

Engineer : Ren Anzai



| No. | Freq.<br>[MHz] | Reading<br><QP> | Ant.Fac<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | S.Fac<br>[dB] | Result<br><QP> | Limit<br><QP> | Margin<br><QP> | Pola.<br>[H/V] | Height<br>[cm] | Angle<br>[deg] | Ant. Type | Comment |
|-----|----------------|-----------------|-------------------|--------------|--------------|---------------|----------------|---------------|----------------|----------------|----------------|----------------|-----------|---------|
|     |                | [dBuV]          |                   |              |              |               | [dBuV/m]       | [dBuV/m]      | [dB]           |                |                |                |           |         |
| 1   | 196.606        | 32.10           | 16.40             | 9.21         | 31.79        | -0.14         | 25.78          | 43.50         | 17.7           | Hori.          | 151            | 226            | BC        |         |
| 2   | 220.798        | 39.80           | 10.58             | 6.01         | 31.78        | 0.00          | 24.61          | 46.00         | 21.3           | Hori.          | 100            | 128            | LP        |         |
| 3   | 270.403        | 37.20           | 12.30             | 6.43         | 31.78        | 0.00          | 24.15          | 46.00         | 21.8           | Hori.          | 100            | 129            | LP        |         |
| 4   | 319.488        | 42.10           | 13.47             | 6.84         | 31.80        | 0.00          | 30.61          | 46.00         | 15.3           | Hori.          | 100            | 128            | LP        |         |
| 5   | 368.642        | 37.20           | 14.62             | 7.22         | 31.84        | 0.00          | 27.20          | 46.00         | 18.8           | Hori.          | 100            | 140            | LP        |         |
| 6   | 49.210         | 32.60           | 11.45             | 7.48         | 31.84        | -0.03         | 19.66          | 40.00         | 20.3           | Vert.          | 100            | 203            | BC        |         |
| 7   | 60.243         | 37.20           | 8.28              | 7.63         | 31.83        | -0.38         | 20.90          | 40.00         | 19.1           | Vert.          | 100            | 261            | BC        |         |
| 8   | 319.484        | 40.60           | 13.47             | 6.84         | 31.80        | 0.00          | 29.11          | 46.00         | 16.8           | Vert.          | 161            | 142            | LP        |         |
| 9   | 368.792        | 41.60           | 14.62             | 7.22         | 31.84        | 0.00          | 31.60          | 46.00         | 14.4           | Vert.          | 154            | 266            | LP        |         |
| 10  | 392.803        | 35.40           | 15.35             | 7.41         | 31.88        | 0.00          | 26.28          | 46.00         | 19.7           | Vert.          | 122            | 271            | LP        |         |

DATA OF RADIATED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber  
Date : 2025/06/09

Company : Foster Electric Company, Limited

Kind of EUT : Mercedes-Benz Headphones

Model No. : MB WHP 2

Serial No. : Refer to Section 4, Clause 4.2

Remarks : EUT Axis Hori:X, Vert:X

Mode : BT Communication

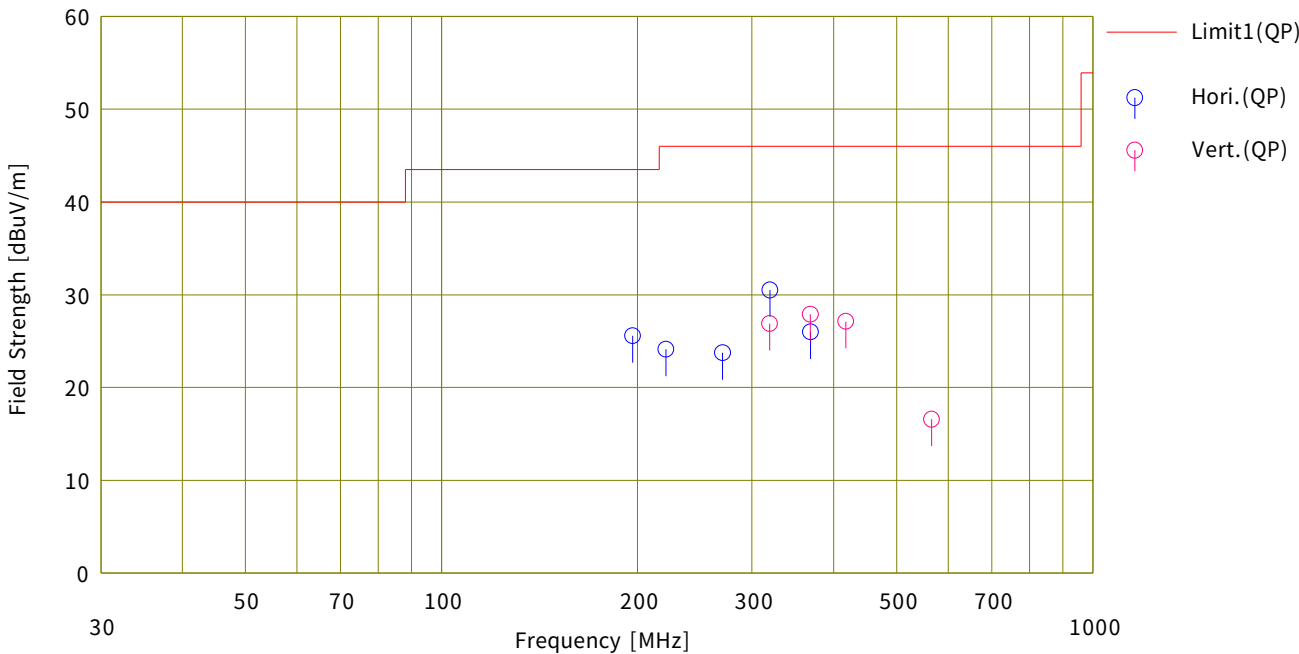
Order No. : 15860840

Power : DC 3.2 V (Battery)

Temp./Humi. : 23 deg.C / 64 %RH

Limit : FCC\_Part 15 Subpart B (15.109)\_Class B

Engineer : Ren Anzai



| No. | Freq.   | Reading | Ant.Fac | Loss | Gain  | S.Fac | Result   | Limit    | Margin | Pola. | Height | Angle | Ant. Type | Comment |
|-----|---------|---------|---------|------|-------|-------|----------|----------|--------|-------|--------|-------|-----------|---------|
|     |         | <QP>    |         |      |       |       | <QP>     | <QP>     | <QP>   |       |        |       |           |         |
|     |         | [dBuV]  |         |      |       |       | [dBuV/m] | [dBuV/m] | [dB]   |       |        |       |           |         |
| 1   | 196.600 | 31.90   | 16.40   | 9.21 | 31.79 | -0.14 | 25.58    | 43.50    | 17.9   | Hori. | 155    | 212   | BC        |         |
| 2   | 221.183 | 39.30   | 10.60   | 6.01 | 31.78 | 0.00  | 24.13    | 46.00    | 21.8   | Hori. | 100    | 330   | LP        |         |
| 3   | 270.403 | 36.80   | 12.30   | 6.43 | 31.78 | 0.00  | 23.75    | 46.00    | 22.2   | Hori. | 100    | 100   | LP        |         |
| 4   | 319.488 | 42.00   | 13.47   | 6.84 | 31.80 | 0.00  | 30.51    | 46.00    | 15.4   | Hori. | 100    | 136   | LP        |         |
| 5   | 368.804 | 36.00   | 14.62   | 7.22 | 31.84 | 0.00  | 26.00    | 46.00    | 20.0   | Hori. | 306    | 299   | LP        |         |
| 6   | 319.200 | 38.40   | 13.46   | 6.84 | 31.80 | 0.00  | 26.90    | 46.00    | 19.1   | Vert. | 100    | 38    | LP        |         |
| 7   | 368.640 | 37.90   | 14.62   | 7.22 | 31.84 | 0.00  | 27.90    | 46.00    | 18.1   | Vert. | 148    | 270   | LP        |         |
| 8   | 417.794 | 35.60   | 15.85   | 7.58 | 31.90 | 0.00  | 27.13    | 46.00    | 18.8   | Vert. | 136    | 175   | LP        |         |
| 9   | 565.604 | 21.30   | 18.99   | 8.37 | 32.08 | 0.00  | 16.58    | 46.00    | 29.4   | Vert. | 150    | 0     | LP        |         |

DATA OF RADIATED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber  
Date : 2025/06/09

Company : Foster Electric Company, Limited

Kind of EUT : Mercedes-Benz Headphones

Model No. : MB WHP 2

Serial No. : Refer to Section 4, Clause 4.2

Remarks : EUT Axis Hori:X, Vert:X,Test Distance=390 cm

Mode : Charge + BT Communication

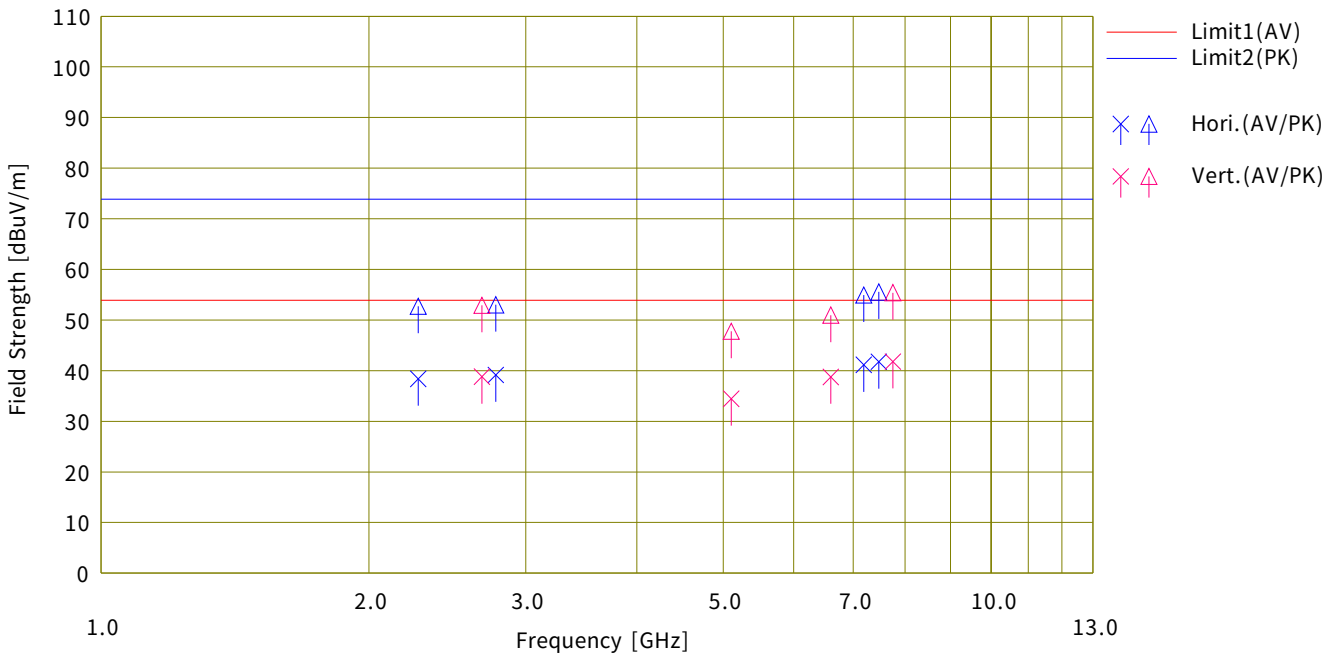
Order No. : 15860840

Power : AC 120 V / 60 Hz (AC Adapter)

Temp./Humi. : 23 deg.C / 64 %RH

Limit : FCC\_Part 15 Subpart B (15.109)\_Class B

Engineer : Ren Anzai



| No. | Freq.    | Reading |        | Ant.Fac | Loss  | Gain  | D.Fac | Result   |          | Limit    |          | Margin |      | Pola. | Height | Angle | Ant. Type | Comment |
|-----|----------|---------|--------|---------|-------|-------|-------|----------|----------|----------|----------|--------|------|-------|--------|-------|-----------|---------|
|     |          | <AV>    | <PK>   |         |       |       |       | <AV>     | <PK>     | <AV>     | <PK>     | <AV>   | <PK> |       |        |       |           |         |
|     | [MHz]    | [dBuV]  | [dBuV] |         |       |       |       | [dBuV/m] | [dBuV/m] | [dBuV/m] | [dBuV/m] | [dB]   | [dB] |       | [cm]   | [deg] |           |         |
| 1   | 2272.628 | 33.12   | 47.45  | 28.00   | 14.44 | 39.46 | 2.28  | 38.38    | 52.71    | 53.90    | 73.90    | 15.5   | 21.1 | Hori. | 100    | 0     | 31SH01    |         |
| 2   | 2778.392 | 33.33   | 47.17  | 28.07   | 14.94 | 39.45 | 2.28  | 39.17    | 53.01    | 53.90    | 73.90    | 14.7   | 20.8 | Hori. | 100    | 0     | 31SH01    |         |
| 3   | 7193.054 | 32.48   | 46.27  | 36.77   | 9.01  | 39.39 | 2.28  | 41.15    | 54.94    | 53.90    | 73.90    | 12.7   | 18.9 | Hori. | 100    | 0     | 31SH01    |         |
| 4   | 7476.433 | 32.63   | 46.39  | 36.92   | 9.23  | 39.30 | 2.28  | 41.76    | 55.52    | 53.90    | 73.90    | 12.1   | 18.3 | Hori. | 100    | 0     | 31SH01    |         |
| 5   | 2677.594 | 33.40   | 47.50  | 27.78   | 14.84 | 39.49 | 2.28  | 38.81    | 52.91    | 53.90    | 73.90    | 15.0   | 20.9 | Vert. | 100    | 0     | 31SH01    |         |
| 6   | 5103.999 | 32.44   | 45.77  | 31.83   | 7.54  | 39.66 | 2.28  | 34.43    | 47.76    | 53.90    | 73.90    | 19.4   | 26.1 | Vert. | 100    | 0     | 31SH01    |         |
| 7   | 6602.807 | 33.11   | 45.33  | 34.49   | 8.56  | 39.70 | 2.28  | 38.74    | 50.96    | 53.90    | 73.90    | 15.1   | 22.9 | Vert. | 100    | 0     | 31SH01    |         |
| 8   | 7752.005 | 32.63   | 46.22  | 36.61   | 9.36  | 39.07 | 2.28  | 41.81    | 55.40    | 53.90    | 73.90    | 12.0   | 18.5 | Vert. | 100    | 0     | 31SH01    |         |

DATA OF RADIATED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.1 Semi-Anechoic Chamber  
Date : 2025/06/09

Company : Foster Electric Company, Limited

Kind of EUT : Mercedes-Benz Headphones

Model No. : MB WHP 2

Serial No. : Refer to Section 4, Clause 4.2

Remarks : EUT Axis Hori:X, Vert:X,Test Distance=390 cm

Mode : BT Communication

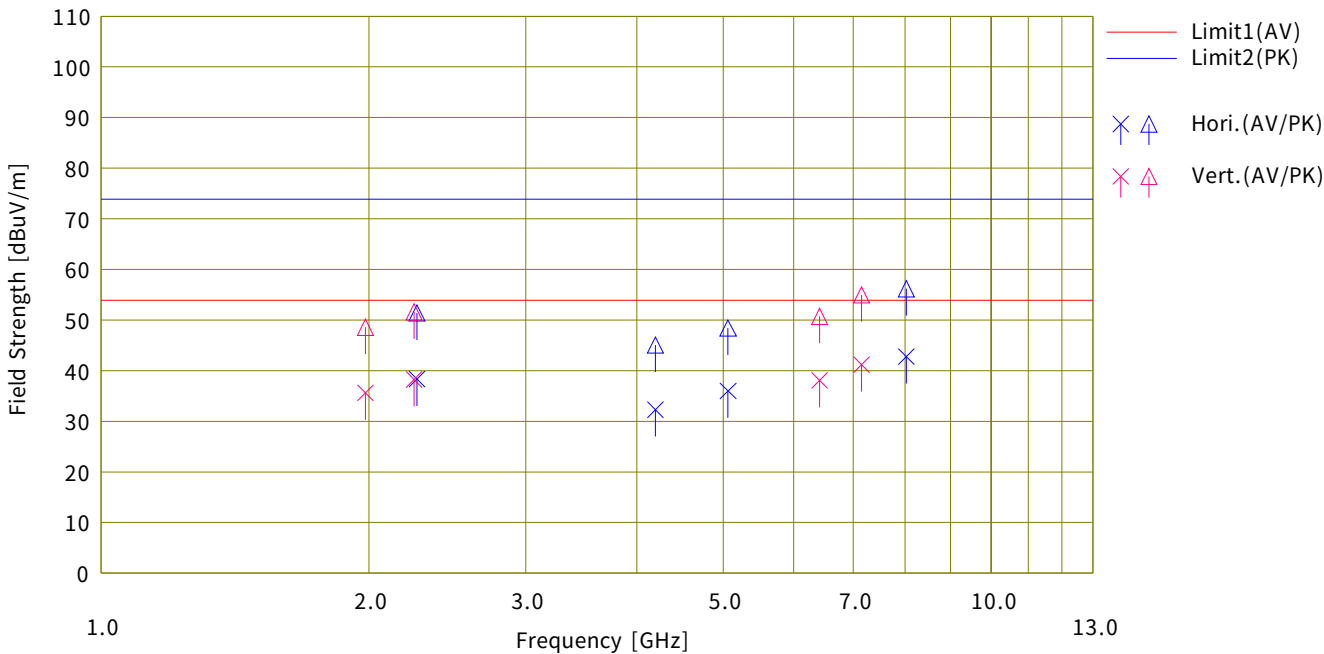
Order No. : 15860840

Power : DC 3.2 V (Battery)

Temp./Humi. : 23 deg.C / 64 %RH

Limit : FCC\_Part 15 Subpart B (15.109)\_Class B

Engineer : Ren Anzai



| No. | Freq.    | Reading |        | Ant.Fac | Loss  | Gain  | D.Fac | Result   |          | Limit    |          | Margin |      | Pola. | Height | Angle | Ant. Type | Comment |
|-----|----------|---------|--------|---------|-------|-------|-------|----------|----------|----------|----------|--------|------|-------|--------|-------|-----------|---------|
|     |          | <AV>    | <PK>   |         |       |       |       | <AV>     | <PK>     | <AV>     | <PK>     | <AV>   | <PK> |       |        |       |           |         |
|     |          | [dBuV]  | [dBuV] |         |       |       |       | [dBuV/m] | [dBuV/m] | [dBuV/m] | [dBuV/m] | [dB]   | [dB] |       |        |       |           |         |
| 1   | 2265.418 | 33.06   | 46.12  | 28.00   | 14.43 | 39.45 | 2.28  | 38.32    | 51.38    | 53.90    | 73.90    | 15.5   | 22.5 | Hori. | 100    | 0     | 31SH01    |         |
| 2   | 4196.794 | 32.88   | 45.65  | 29.71   | 6.91  | 39.51 | 2.28  | 32.27    | 45.04    | 53.90    | 73.90    | 21.6   | 28.8 | Hori. | 100    | 0     | 31SH01    |         |
| 3   | 5064.412 | 34.12   | 46.53  | 31.74   | 7.50  | 39.66 | 2.28  | 35.98    | 48.39    | 53.90    | 73.90    | 17.9   | 25.5 | Hori. | 100    | 0     | 31SH01    |         |
| 4   | 8027.690 | 32.41   | 45.83  | 37.47   | 9.49  | 38.89 | 2.28  | 42.76    | 56.18    | 53.90    | 73.90    | 11.1   | 17.7 | Hori. | 100    | 0     | 31SH01    |         |
| 5   | 1982.796 | 32.85   | 45.79  | 25.66   | 14.14 | 39.32 | 2.28  | 35.61    | 48.55    | 53.90    | 73.90    | 18.2   | 25.3 | Vert. | 100    | 0     | 31SH01    |         |
| 6   | 2247.390 | 33.00   | 46.37  | 27.97   | 14.42 | 39.44 | 2.28  | 38.23    | 51.60    | 53.90    | 73.90    | 15.6   | 22.3 | Vert. | 100    | 0     | 31SH01    |         |
| 7   | 6413.035 | 33.24   | 45.87  | 33.92   | 8.43  | 39.78 | 2.28  | 38.09    | 50.72    | 53.90    | 73.90    | 15.8   | 23.1 | Vert. | 100    | 0     | 31SH01    |         |
| 8   | 7151.475 | 32.65   | 46.45  | 36.68   | 8.99  | 39.40 | 2.28  | 41.20    | 55.00    | 53.90    | 73.90    | 12.7   | 18.9 | Vert. | 100    | 0     | 31SH01    |         |

**APPENDIX 2****Test Instruments****EMI test equipment**

| Test Name | LIMS ID | Description               | Manufacturer                                | Model                                      | Serial                  | Last Calibration Date | Calibration Interval (Month) |
|-----------|---------|---------------------------|---------------------------------------------|--------------------------------------------|-------------------------|-----------------------|------------------------------|
| CE        | 248304  | Attenuator                | JFW                                         | 50HFFA-006-2/18N                           | -                       | 2025/05/14            | 12                           |
| CE        | 144966  | Coaxial Cable&RF Selector | Suhner/Suhner/TOYO                          | RG223U/141PE/NS4906                        | -/0901-269(RF Selector) | 2025/04/05            | 12                           |
| CE        | 145539  | LISN                      | Rohde & Schwarz                             | ENV216                                     | 100512                  | 2025/02/01            | 12                           |
| CE        | 167990  | Thermo-Hygrometer         | CUSTOM. Inc                                 | CTH-202                                    | 708Q08R                 | 2024/08/11            | 12                           |
| CE,RE     | 145792  | Digital Hitester          | HIOKI E. E. CORPORATION                     | 3805-50                                    | 80997812                | 2024/09/24            | 12                           |
| CE,RE     | 170932  | EMI Software              | TSJ (Techno Science Japan)                  | TEPTO-DV3(RE,CE,ME,PE)                     | Ver 3.1.0546            | -                     | -                            |
| CE,RE     | 207279  | Tape Measure              | ASKUL                                       | -                                          | -                       | -                     | -                            |
| CE,RE     | 145790  | Test Receiver             | Rohde & Schwarz                             | ESU40                                      | 100093                  | 2025/04/18            | 12                           |
| RE        | 144899  | Attenuator                | Inmet                                       | 18N-6dB                                    | -                       | 2024/11/21            | 12                           |
| RE        | 144959  | Attenuator                | JFW                                         | 50HF-003N                                  | -                       | 2024/08/22            | 12                           |
| RE        | 145137  | Attenuator                | Keysight Technologies Inc                   | 8493C-010                                  | 74865                   | 2024/10/10            | 12                           |
| RE        | 145161  | Biconical Antenna         | Schwarzbeck Mess-Elektronik OHG             | BBA9106                                    | 91032664                | 2025/04/22            | 12                           |
| RE        | 196985  | Coaxial Cable             | Huber+Suhner                                | SUCOFLEX 102                               | 803650/2                | 2025/03/14            | 12                           |
| RE        | 243212  | Coaxial Cable             | Hayashi-Repic co., Ltd.                     | SMS13-13A26-NMS13-9.0m                     | 49306-01-01             | 2024/06/12            | 12                           |
| RE        | 144967  | Coaxial Cable&RF Selector | Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO | 8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906 | -/0901-269(RF Selector) | 2025/04/05            | 12                           |
| RE        | 144968  | Coaxial Cable&RF Selector | Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO | 8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906 | -/0901-269(RF Selector) | 2025/04/05            | 12                           |
| RE        | 145301  | Highpass Filter           | Micro-Tronics                               | HPM50111                                   | 51                      | 2024/10/10            | 12                           |
| RE        | 145383  | Horn Antenna              | Schwarzbeck Mess-Elektronik OHG             | BBHA9120D                                  | 9120D-725               | 2025/03/03            | 12                           |
| RE        | 236416  | Logperiodic Antenna       | Schwarzbeck Mess-Elektronik OHG             | VULP 9118 B                                | 00974                   | 2024/07/03            | 12                           |
| RE        | 145003  | Pre Amplifier             | SONOMA                                      | 310N                                       | 290211                  | 2025/02/19            | 12                           |
| RE        | 145127  | Pre Amplifier             | Toyo Corporation                            | TPA0118-36                                 | 2072554                 | 2025/05/28            | 12                           |
| RE        | 145561  | Semi-Anechoic Chamber     | TDK                                         | SAEC-01(SVSWR)                             | 1                       | 2025/05/16            | 12                           |
| RE        | 145597  | Semi-Anechoic Chamber     | TDK                                         | SAEC-01(NSA)                               | 1                       | 2025/04/04            | 12                           |
| RE        | 259708  | Thermo-Hygrometer         | CUSTOM. Inc                                 | CTH-230                                    | -                       | 2025/04/11            | 12                           |

\*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test Item:

CE: Conducted emission,

RE: Radiated emission