

# DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room

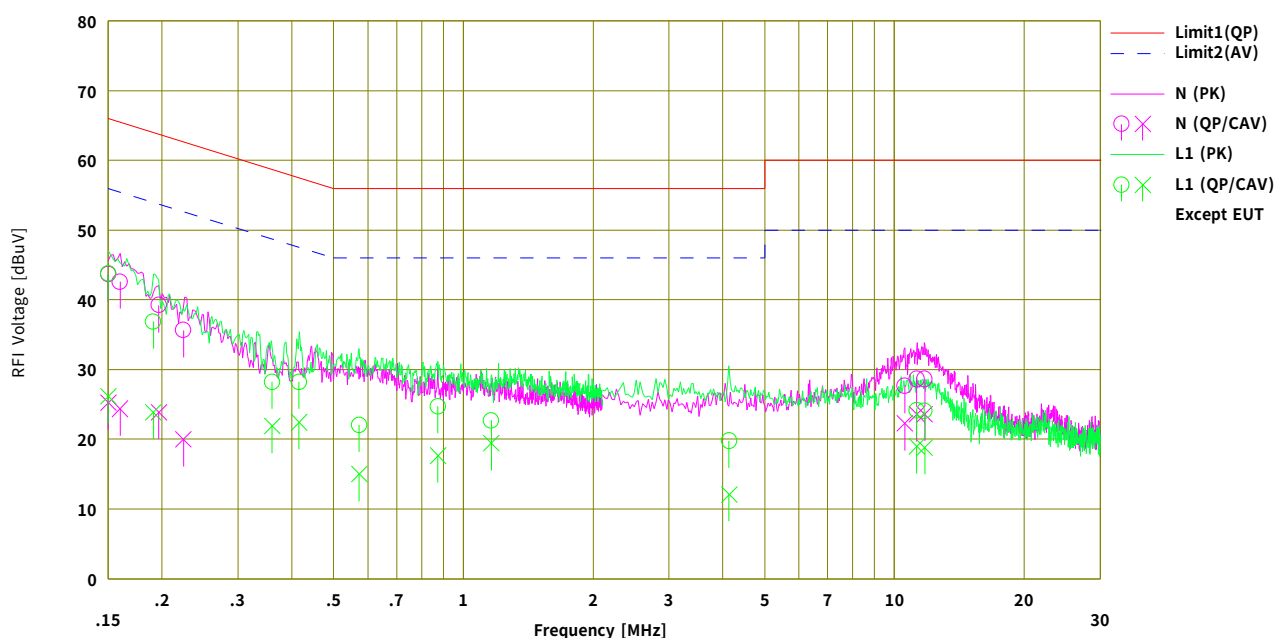
Date : 2019/03/18

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : -

Mode : Analog Audio In + Charge  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 39 %RH

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

Engineer : Yusuke Ohnuma



| No. | Freq.<br>[MHz] | Reading        |                 | C.Fac<br>[dB] | Results        |                 | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|-----------------|---------------|----------------|-----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <CAV><br>[dBuV] |               | <QP><br>[dBuV] | <CAV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.15000        | 30.55          | 12.19           | 13.08         | 43.63          | 25.27           | 66.00          | 56.00          | 22.3         | 30.7         | N     |         |
| 2   | 0.15975        | 29.49          | 11.28           | 13.08         | 42.57          | 24.36           | 65.48          | 55.48          | 22.9         | 31.1         | N     |         |
| 3   | 0.19671        | 26.12          | 10.79           | 13.09         | 39.21          | 23.88           | 63.75          | 53.75          | 24.5         | 29.8         | N     |         |
| 4   | 0.22429        | 22.54          | 6.86            | 13.09         | 35.63          | 19.95           | 62.66          | 52.66          | 27.0         | 32.7         | N     |         |
| 5   | 10.58258       | 13.79          | 8.42            | 13.84         | 27.63          | 22.26           | 60.00          | 50.00          | 32.3         | 27.7         | N     |         |
| 6   | 11.27639       | 14.72          | 9.69            | 13.88         | 28.60          | 23.57           | 60.00          | 50.00          | 31.4         | 26.4         | N     |         |
| 7   | 11.75426       | 14.70          | 9.72            | 13.90         | 28.60          | 23.62           | 60.00          | 50.00          | 31.4         | 26.3         | N     |         |
| 8   | 0.15000        | 30.67          | 13.07           | 13.08         | 43.75          | 26.15           | 66.00          | 56.00          | 22.2         | 29.8         | L1    |         |
| 9   | 0.19112        | 23.78          | 10.78           | 13.08         | 36.86          | 23.86           | 63.99          | 53.99          | 27.1         | 30.1         | L1    |         |
| 10  | 0.35991        | 15.09          | 8.81            | 13.10         | 28.19          | 21.91           | 58.73          | 48.73          | 30.5         | 26.8         | L1    |         |
| 11  | 0.41563        | 15.10          | 9.33            | 13.11         | 28.21          | 22.44           | 57.54          | 47.54          | 29.3         | 25.1         | L1    |         |
| 12  | 0.57314        | 8.91           | 1.85            | 13.14         | 22.05          | 14.99           | 56.00          | 46.00          | 33.9         | 31.0         | L1    |         |
| 13  | 0.87354        | 11.56          | 4.48            | 13.16         | 24.72          | 17.64           | 56.00          | 46.00          | 31.2         | 28.3         | L1    |         |
| 14  | 1.16181        | 9.48           | 6.23            | 13.19         | 22.67          | 19.42           | 56.00          | 46.00          | 33.3         | 26.5         | L1    |         |
| 15  | 4.13685        | 6.37           | -1.31           | 13.40         | 19.77          | 12.09           | 56.00          | 46.00          | 36.2         | 33.9         | L1    |         |
| 16  | 11.27639       | 10.23          | 5.07            | 13.88         | 24.11          | 18.95           | 60.00          | 50.00          | 35.8         | 31.0         | L1    |         |
| 17  | 11.75426       | 10.12          | 4.89            | 13.90         | 24.02          | 18.79           | 60.00          | 50.00          | 35.9         | 31.2         | L1    |         |

# DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room

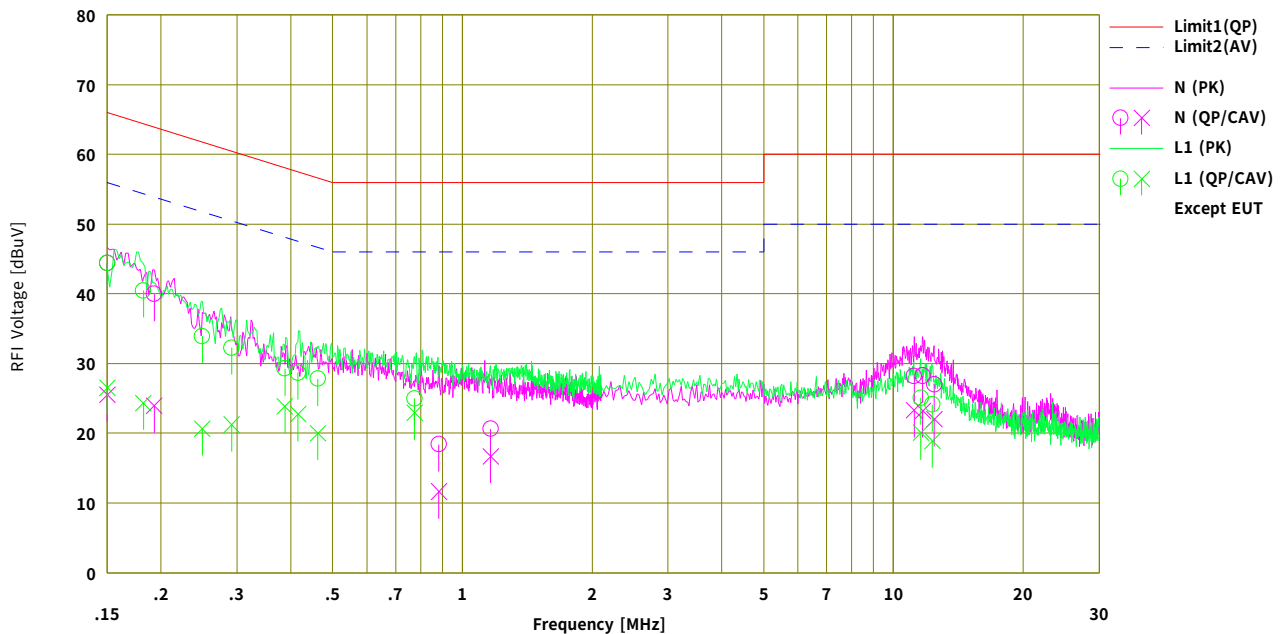
Date : 2019/03/18

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : -

Mode : BT Communication + Charge  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 39 %RH

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

Engineer : Yusuke Ohnuma



| No. | Freq.<br>[MHz] | Reading        |                 | C.Fac<br>[dB] | Results        |                 | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|-----------------|---------------|----------------|-----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <CAV><br>[dBuV] |               | <QP><br>[dBuV] | <CAV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.15000        | 31.31          | 12.45           | 13.08         | 44.39          | 25.53           | 66.00          | 56.00          | 21.6         | 30.4         | N     |         |
| 2   | 0.19291        | 26.89          | 10.86           | 13.08         | 39.97          | 23.94           | 63.91          | 53.91          | 23.9         | 29.9         | N     |         |
| 3   | 0.88237        | 5.23           | -1.50           | 13.16         | 18.39          | 11.66           | 56.00          | 46.00          | 37.6         | 34.3         | N     |         |
| 4   | 1.16378        | 7.42           | 3.49            | 13.19         | 20.61          | 16.68           | 56.00          | 46.00          | 35.3         | 29.3         | N     |         |
| 5   | 11.16841       | 14.28          | 9.42            | 13.87         | 28.15          | 23.29           | 60.00          | 50.00          | 31.8         | 26.7         | N     |         |
| 6   | 11.70804       | 14.33          | 9.34            | 13.90         | 28.23          | 23.24           | 60.00          | 50.00          | 31.7         | 26.7         | N     |         |
| 7   | 12.43761       | 13.06          | 8.06            | 13.94         | 27.00          | 22.00           | 60.00          | 50.00          | 33.0         | 28.0         | N     |         |
| 8   | 0.15000        | 31.31          | 13.45           | 13.08         | 44.39          | 26.53           | 66.00          | 56.00          | 21.6         | 29.4         | L1    |         |
| 9   | 0.18197        | 27.37          | 11.26           | 13.08         | 40.45          | 24.34           | 64.40          | 54.40          | 23.9         | 30.0         | L1    |         |
| 10  | 0.24945        | 20.81          | 7.56            | 13.09         | 33.90          | 20.65           | 61.78          | 51.78          | 27.8         | 31.1         | L1    |         |
| 11  | 0.29192        | 19.16          | 8.14            | 13.10         | 32.26          | 21.24           | 60.47          | 50.47          | 28.2         | 29.2         | L1    |         |
| 12  | 0.38745        | 16.18          | 10.78           | 13.11         | 29.29          | 23.89           | 58.12          | 48.12          | 28.8         | 24.2         | L1    |         |
| 13  | 0.41598        | 15.56          | 9.62            | 13.11         | 28.67          | 22.73           | 57.53          | 47.53          | 28.8         | 24.8         | L1    |         |
| 14  | 0.46243        | 14.70          | 6.89            | 13.12         | 27.82          | 20.01           | 56.65          | 46.65          | 28.8         | 26.6         | L1    |         |
| 15  | 0.77461        | 11.81          | 9.76            | 13.15         | 24.96          | 22.91           | 56.00          | 46.00          | 31.0         | 23.0         | L1    |         |
| 16  | 11.58208       | 11.19          | 6.18            | 13.89         | 25.08          | 20.07           | 60.00          | 50.00          | 34.9         | 29.9         | L1    |         |
| 17  | 12.30460       | 10.21          | 4.98            | 13.93         | 24.14          | 18.91           | 60.00          | 50.00          | 35.8         | 31.0         | L1    |         |

Calculation: Result[dBuV] = Reading[dBuV] + C.Fac(LISN(AMN) + Cable + ATT)[dB]  
 LISN(AMN) = SLS-02

# DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room

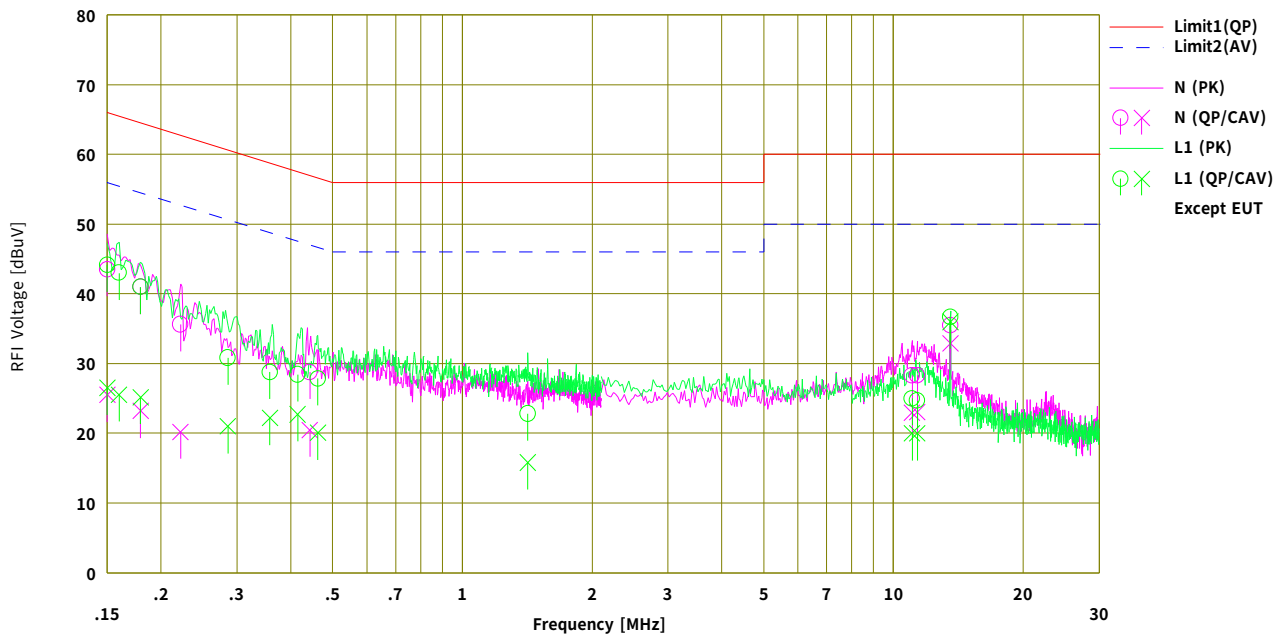
Date : 2019/03/18

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : -

Mode : NFC + Charge + BT Standby  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 39 %RH

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

Engineer : Yusuke Ohnuma



| No. | Freq.<br>[MHz] | Reading        |                 | C.Fac<br>[dB] | Results        |                 | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|-----------------|---------------|----------------|-----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <CAV><br>[dBuV] |               | <QP><br>[dBuV] | <CAV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.15000        | 30.41          | 12.43           | 13.08         | 43.49          | 25.51           | 66.00          | 56.00          | 22.5         | 30.4         | N     |         |
| 2   | 0.17925        | 27.89          | 10.11           | 13.08         | 40.97          | 23.19           | 64.52          | 54.52          | 23.5         | 31.3         | N     |         |
| 3   | 0.22215        | 22.51          | 7.09            | 13.09         | 35.60          | 20.18           | 62.74          | 52.74          | 27.1         | 32.5         | N     |         |
| 4   | 0.44272        | 15.67          | 7.37            | 13.11         | 28.78          | 20.48           | 57.01          | 47.01          | 28.2         | 26.5         | N     |         |
| 5   | 11.05617       | 14.42          | 9.09            | 13.87         | 28.29          | 22.96           | 60.00          | 50.00          | 31.7         | 27.0         | N     |         |
| 6   | 11.36744       | 14.43          | 9.16            | 13.88         | 28.31          | 23.04           | 60.00          | 50.00          | 31.6         | 26.9         | N     |         |
| 7   | 13.55951       | 21.43          | 18.89           | 14.00         | 35.43          | 32.89           | 60.00          | 50.00          | 24.5         | 17.1         | N     |         |
| 8   | 0.15001        | 31.08          | 13.41           | 13.08         | 44.16          | 26.49           | 66.00          | 56.00          | 21.8         | 29.5         | L1    |         |
| 9   | 0.15975        | 29.91          | 12.45           | 13.08         | 42.99          | 25.53           | 65.48          | 55.48          | 22.4         | 29.9         | L1    |         |
| 10  | 0.17925        | 27.89          | 12.08           | 13.08         | 40.97          | 25.16           | 64.52          | 54.52          | 23.5         | 29.3         | L1    |         |
| 11  | 0.28614        | 17.71          | 7.89            | 13.10         | 30.81          | 20.99           | 60.64          | 50.64          | 29.8         | 29.6         | L1    |         |
| 12  | 0.35795        | 15.67          | 9.11            | 13.10         | 28.77          | 22.21           | 58.78          | 48.78          | 30.0         | 26.5         | L1    |         |
| 13  | 0.41527        | 15.30          | 9.59            | 13.11         | 28.41          | 22.70           | 57.54          | 47.54          | 29.1         | 24.8         | L1    |         |
| 14  | 0.46200        | 14.71          | 6.93            | 13.12         | 27.83          | 20.05           | 56.66          | 46.66          | 28.8         | 26.6         | L1    |         |
| 15  | 1.41945        | 9.60           | 2.60            | 13.20         | 22.80          | 15.80           | 56.00          | 46.00          | 33.2         | 30.2         | L1    |         |
| 16  | 11.05617       | 11.10          | 6.09            | 13.87         | 24.97          | 19.96           | 60.00          | 50.00          | 35.0         | 30.0         | L1    |         |
| 17  | 11.36744       | 10.79          | 6.08            | 13.88         | 24.67          | 19.96           | 60.00          | 50.00          | 35.3         | 30.0         | L1    |         |
| 18  | 13.55939       | 22.69          | 21.97           | 14.00         | 36.69          | 35.97           | 60.00          | 50.00          | 23.3         | 14.0         | L1    |         |

Calculation: Result[dBuV] = Reading[dBuV] + C.Fac(LISN(AMN) + Cable + ATT)[dB]  
 LISN(AMN) = SLS-02

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

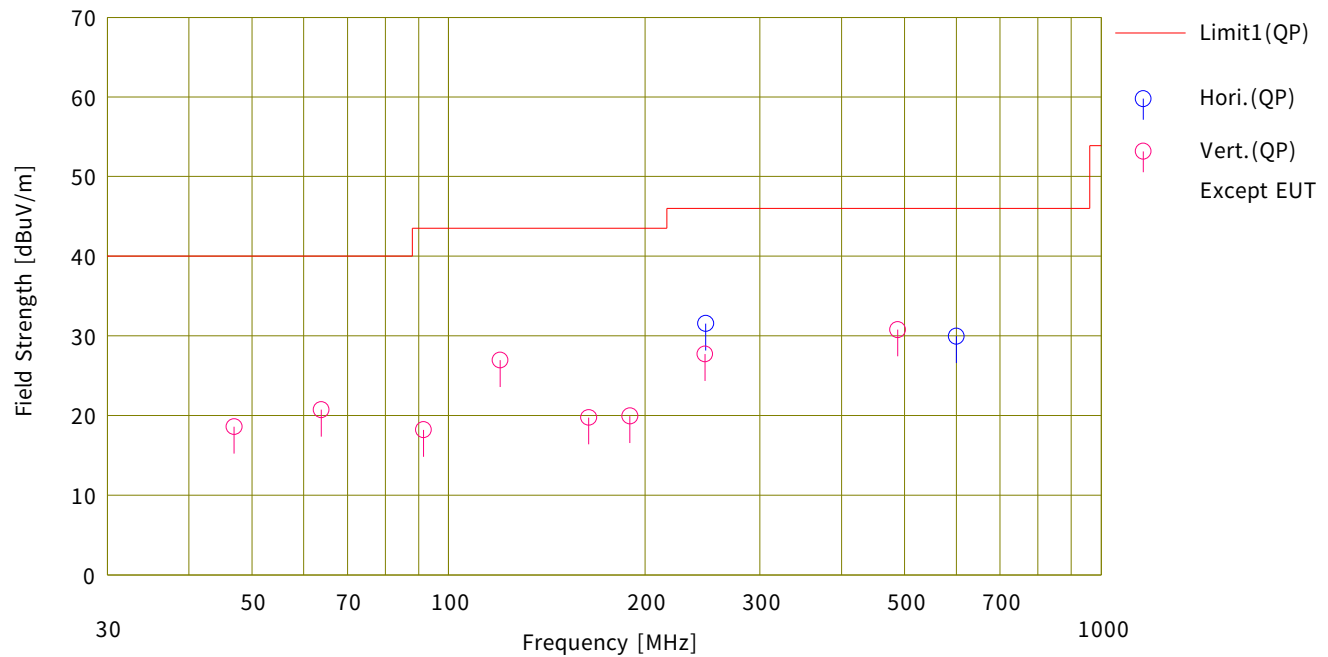
Date : 2019/03/14

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : EUT Axis Hor:X, Ver:X

Mode : Analog Audio In + Charge  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 33 %RH

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

Engineer : Yohsuke Matsuzawa



| 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.<br>Type | Comment |
|-----|----------------|-----------------|-------------------|--------------|--------------|---------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|---------|
|     |                | [dBuV]          |                   |              |              |               | [dBuV/m]       | [dBuV/m]      | [dB]           |                |                |                |              |         |
| 1   | 247.927        | 45.80           | 11.68             | 5.79         | 31.73        | 0.00          | 31.54          | 46.00         | 14.4           | Hori.          | 148            | 206            | LP           |         |
| 2   | 600.000        | 34.50           | 19.22             | 7.84         | 31.61        | 0.00          | 29.95          | 46.00         | 16.0           | Hori.          | 138            | 120            | LP           |         |
| 3   | 46.945         | 31.10           | 12.29             | 7.15         | 31.92        | -0.02         | 18.60          | 40.00         | 21.4           | Vert.          | 100            | 53             | BC           |         |
| 4   | 63.819         | 38.30           | 7.42              | 7.39         | 31.91        | -0.46         | 20.74          | 40.00         | 19.2           | Vert.          | 100            | 196            | BC           |         |
| 5   | 91.537         | 33.50           | 8.54              | 7.76         | 31.89        | 0.30          | 18.21          | 43.50         | 25.2           | Vert.          | 100            | 88             | BC           |         |
| 6   | 120.003        | 37.80           | 13.11             | 8.11         | 31.86        | -0.20         | 26.96          | 43.50         | 16.5           | Vert.          | 100            | 258            | BC           |         |
| 7   | 164.016        | 27.60           | 15.32             | 8.58         | 31.83        | 0.10          | 19.77          | 43.50         | 23.7           | Vert.          | 100            | 294            | BC           |         |
| 8   | 189.748        | 26.60           | 16.45             | 8.82         | 31.81        | -0.12         | 19.94          | 43.50         | 23.5           | Vert.          | 100            | 299            | BC           |         |
| 9   | 247.061        | 42.00           | 11.66             | 5.79         | 31.73        | 0.00          | 27.72          | 46.00         | 18.2           | Vert.          | 100            | 79             | LP           |         |
| 10  | 488.003        | 37.60           | 17.44             | 7.39         | 31.63        | 0.00          | 30.80          | 46.00         | 15.2           | Vert.          | 100            | 205            | LP           |         |

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable+ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]  
 Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna SHA\*\*: Horn Antenna

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

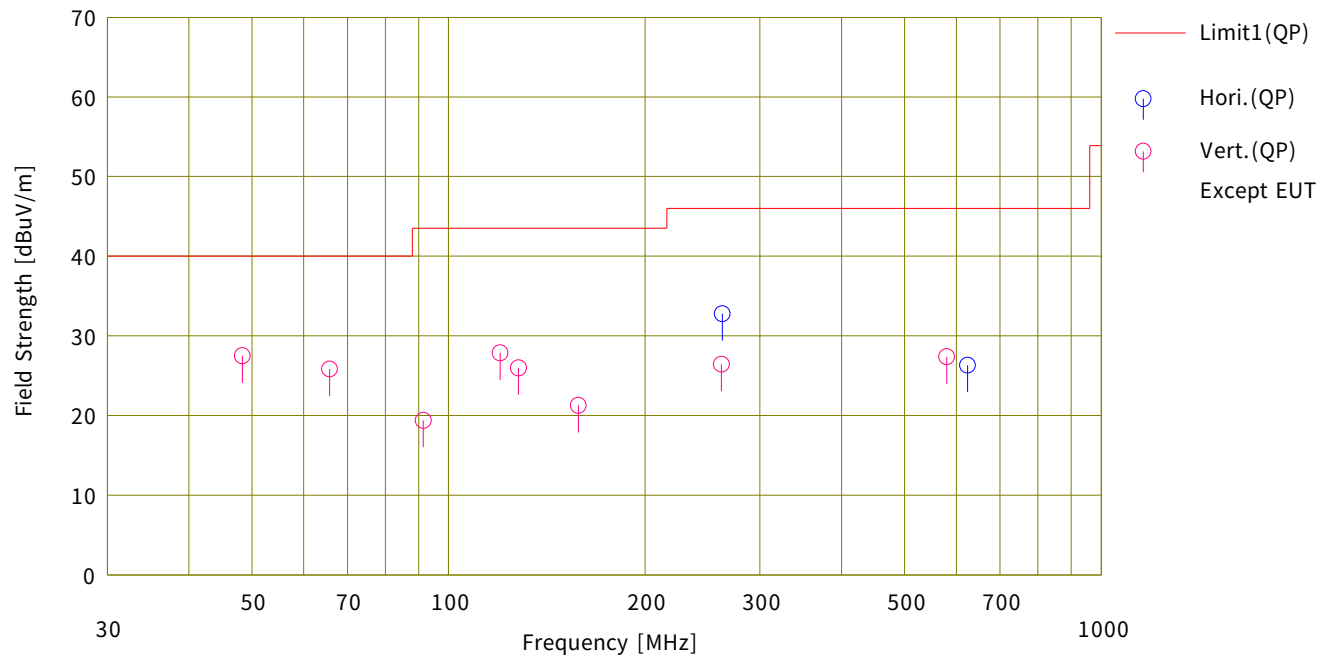
Date : 2019/03/14

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : EUT Axis Hor:X, Ver:X

Mode : BT Communication + Charge  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 33 %RH

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

Engineer : Yohsuke Matsuzawa



| 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.<br>Type | Comment |
|-----|----------------|-----------------|-------------------|--------------|--------------|---------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|---------|
|     |                | [dBuV]          |                   |              |              |               | [dBuV/m]       | [dBuV/m]      | [dB]           |                |                |                |              |         |
| 1   | 262.798        | 46.30           | 12.31             | 5.91         | 31.73        | 0.00          | 32.79          | 46.00         | 13.2           | Hori.          | 121            | 223            | LP           |         |
| 2   | 624.000        | 30.50           | 19.49             | 7.94         | 31.62        | 0.00          | 26.31          | 46.00         | 19.6           | Hori.          | 139            | 137            | LP           |         |
| 3   | 48.323         | 40.50           | 11.78             | 7.17         | 31.92        | -0.03         | 27.50          | 40.00         | 12.5           | Vert.          | 100            | 196            | BC           |         |
| 4   | 65.720         | 43.70           | 7.09              | 7.41         | 31.91        | -0.46         | 25.83          | 40.00         | 14.1           | Vert.          | 100            | 204            | BC           |         |
| 5   | 91.487         | 34.70           | 8.53              | 7.76         | 31.89        | 0.30          | 19.40          | 43.50         | 24.1           | Vert.          | 100            | 40             | BC           |         |
| 6   | 120.001        | 38.70           | 13.11             | 8.11         | 31.86        | -0.20         | 27.86          | 43.50         | 15.6           | Vert.          | 100            | 26             | BC           |         |
| 7   | 128.002        | 36.00           | 13.79             | 8.20         | 31.86        | -0.15         | 25.98          | 43.50         | 17.5           | Vert.          | 100            | 359            | BC           |         |
| 8   | 158.074        | 29.30           | 15.16             | 8.52         | 31.83        | 0.12          | 21.27          | 43.50         | 22.2           | Vert.          | 100            | 124            | BC           |         |
| 9   | 261.915        | 40.00           | 12.25             | 5.91         | 31.73        | 0.00          | 26.43          | 46.00         | 19.5           | Vert.          | 100            | 87             | LP           |         |
| 10  | 580.009        | 32.60           | 18.64             | 7.76         | 31.63        | 0.00          | 27.37          | 46.00         | 18.6           | Vert.          | 100            | 286            | LP           |         |

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable+ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]  
 Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna SHA\*\*: Horn Antenna

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

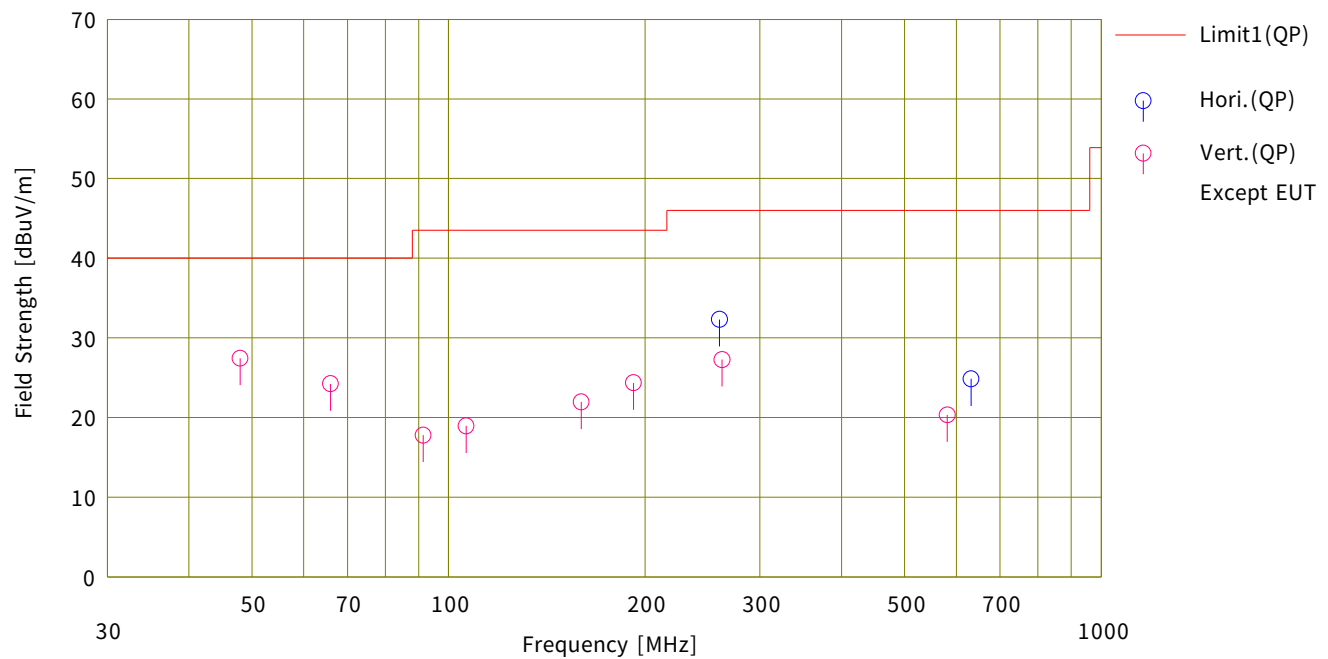
Date : 2019/03/14

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : EUT Axis Hor:X, Ver:X

Mode : NFC + Charge + BT Standby  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 33 %RH

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

Engineer : Yohsuke Matsuzawa



| No. | Freq.   | Reading | Ant.Fac | Loss | Gain  | S.Fac | Result   | Limit    | Margin | Pola. | Height | Angle | Ant. Type | Comment |
|-----|---------|---------|---------|------|-------|-------|----------|----------|--------|-------|--------|-------|-----------|---------|
|     |         | <QP>    |         |      |       |       | <QP>     | <QP>     | <QP>   |       |        |       |           |         |
|     | [MHz]   | [dBuV]  | [dB/m]  | [dB] | [dB]  | [dB]  | [dBuV/m] | [dBuV/m] | [dB]   | [H/V] | [cm]   | [deg] |           |         |
| 1   | 260.163 | 46.00   | 12.14   | 5.89 | 31.73 | 0.00  | 32.30    | 46.00    | 13.7   | Hori. | 139    | 230   | LP        |         |
| 2   | 632.025 | 29.10   | 19.39   | 7.98 | 31.63 | 0.00  | 24.84    | 46.00    | 21.1   | Hori. | 142    | 153   | LP        |         |
| 3   | 47.948  | 40.30   | 11.91   | 7.17 | 31.92 | -0.03 | 27.43    | 40.00    | 12.5   | Vert. | 100    | 54    | BC        |         |
| 4   | 65.957  | 42.10   | 7.06    | 7.42 | 31.91 | -0.44 | 24.23    | 40.00    | 15.7   | Vert. | 100    | 196   | BC        |         |
| 5   | 91.447  | 33.10   | 8.52    | 7.76 | 31.89 | 0.30  | 17.79    | 43.50    | 25.7   | Vert. | 100    | 359   | BC        |         |
| 6   | 106.459 | 31.60   | 11.32   | 7.95 | 31.87 | -0.07 | 18.93    | 43.50    | 24.5   | Vert. | 100    | 174   | BC        |         |
| 7   | 159.712 | 30.00   | 15.12   | 8.54 | 31.83 | 0.12  | 21.95    | 43.50    | 21.5   | Vert. | 100    | 325   | BC        |         |
| 8   | 192.089 | 31.00   | 16.46   | 8.84 | 31.81 | -0.13 | 24.36    | 43.50    | 19.1   | Vert. | 100    | 292   | BC        |         |
| 9   | 262.522 | 40.80   | 12.29   | 5.91 | 31.73 | 0.00  | 27.27    | 46.00    | 18.7   | Vert. | 100    | 91    | LP        |         |
| 10  | 581.602 | 25.50   | 18.69   | 7.77 | 31.63 | 0.00  | 20.33    | 46.00    | 25.6   | Vert. | 100    | 102   | LP        |         |

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable+ATT)[dB] - Gain(AMP)[dB] + S.Fac(ΔAF)[dB]

Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna SHA\*\*: Horn Antenna

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

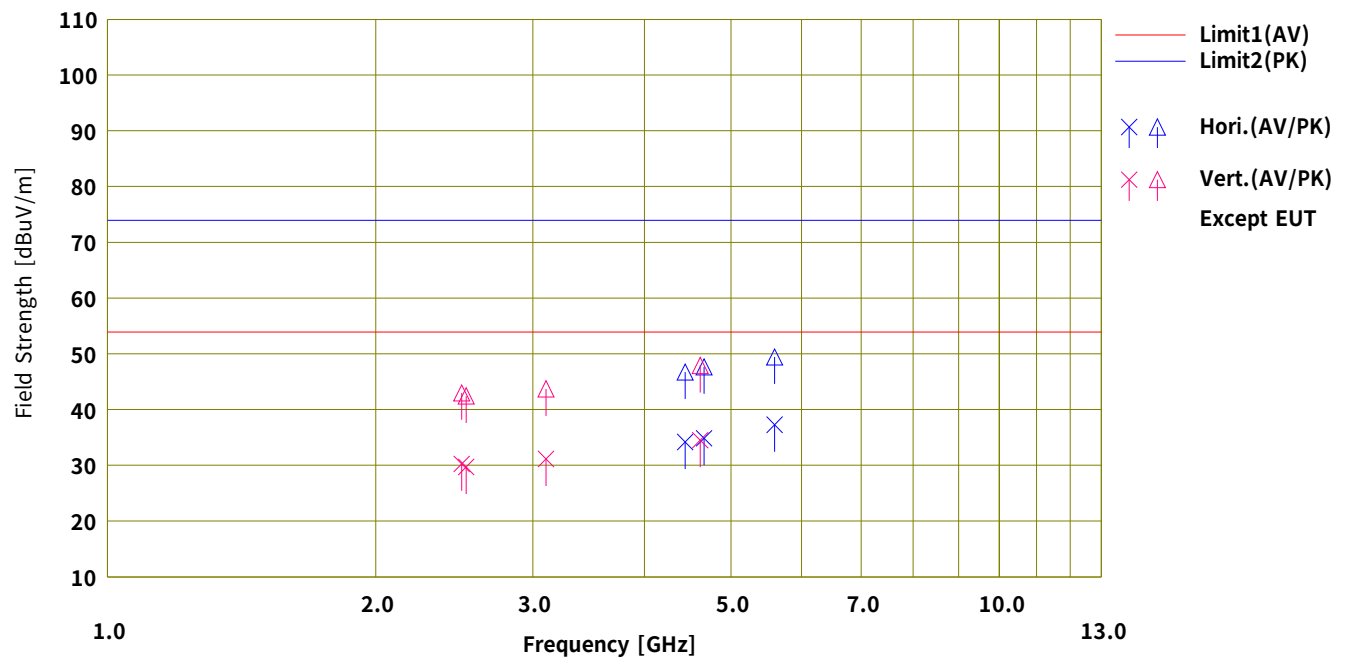
Date : 2019/03/14

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : Test Distance=360 cm EUT Axis Hor:X, Ver:X

Mode : Analog Audio In + Charge  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 33 %RH

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

Engineer : Yusuke Tanikawara



| No. | Freq.<br>[MHz] | Reading |        | Ant.Fac<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | D.Fac<br>[dB] | Result   |          | Limit    |          | Margin |      | Pola.<br>[H/V] | Height<br>[cm] | Angle<br>[deg] | Ant.<br>Type | Comment |
|-----|----------------|---------|--------|-------------------|--------------|--------------|---------------|----------|----------|----------|----------|--------|------|----------------|----------------|----------------|--------------|---------|
|     |                | <AV>    | <PK>   |                   |              |              |               | <AV>     | <PK>     | <AV>     | <PK>     | <AV>   | <PK> |                |                |                |              |         |
|     |                | [dBuV]  | [dBuV] |                   |              |              |               | [dBuV/m] | [dBuV/m] | [dBuV/m] | [dBuV/m] | [dB]   | [dB] |                |                |                |              |         |
| 1   | 4441.600       | 36.27   | 48.83  | 30.35             | 8.68         | 42.73        | 1.59          | 34.16    | 46.72    | 53.90    | 73.90    | 19.7   | 27.1 | Hori.          | 100            | 1              | SHA02        |         |
| 2   | 4664.800       | 36.25   | 49.05  | 30.96             | 8.89         | 42.85        | 1.59          | 34.84    | 47.64    | 53.90    | 73.90    | 19.0   | 26.2 | Hori.          | 100            | 359            | SHA02        |         |
| 3   | 5597.200       | 36.93   | 49.09  | 32.07             | 10.00        | 43.33        | 1.59          | 37.26    | 49.42    | 53.90    | 73.90    | 16.6   | 24.4 | Hori.          | 100            | 1              | SHA02        |         |
| 4   | 2495.800       | 36.11   | 48.85  | 27.62             | 6.56         | 41.63        | 1.59          | 30.25    | 42.99    | 53.90    | 73.90    | 23.6   | 30.9 | Vert.          | 100            | 359            | SHA02        |         |
| 5   | 2524.600       | 35.45   | 48.20  | 27.71             | 6.59         | 41.64        | 1.59          | 29.70    | 42.45    | 53.90    | 73.90    | 24.2   | 31.4 | Vert.          | 100            | 1              | SHA02        |         |
| 6   | 3102.400       | 35.38   | 47.94  | 28.85             | 7.19         | 41.87        | 1.59          | 31.14    | 43.70    | 53.90    | 73.90    | 22.7   | 30.2 | Vert.          | 100            | 359            | SHA02        |         |
| 7   | 4618.000       | 36.08   | 49.49  | 30.81             | 8.85         | 42.84        | 1.59          | 34.49    | 47.90    | 53.90    | 73.90    | 19.4   | 26.0 | Vert.          | 100            | 1              | SHA02        |         |

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna SHA\*\*: Horn Antenna

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

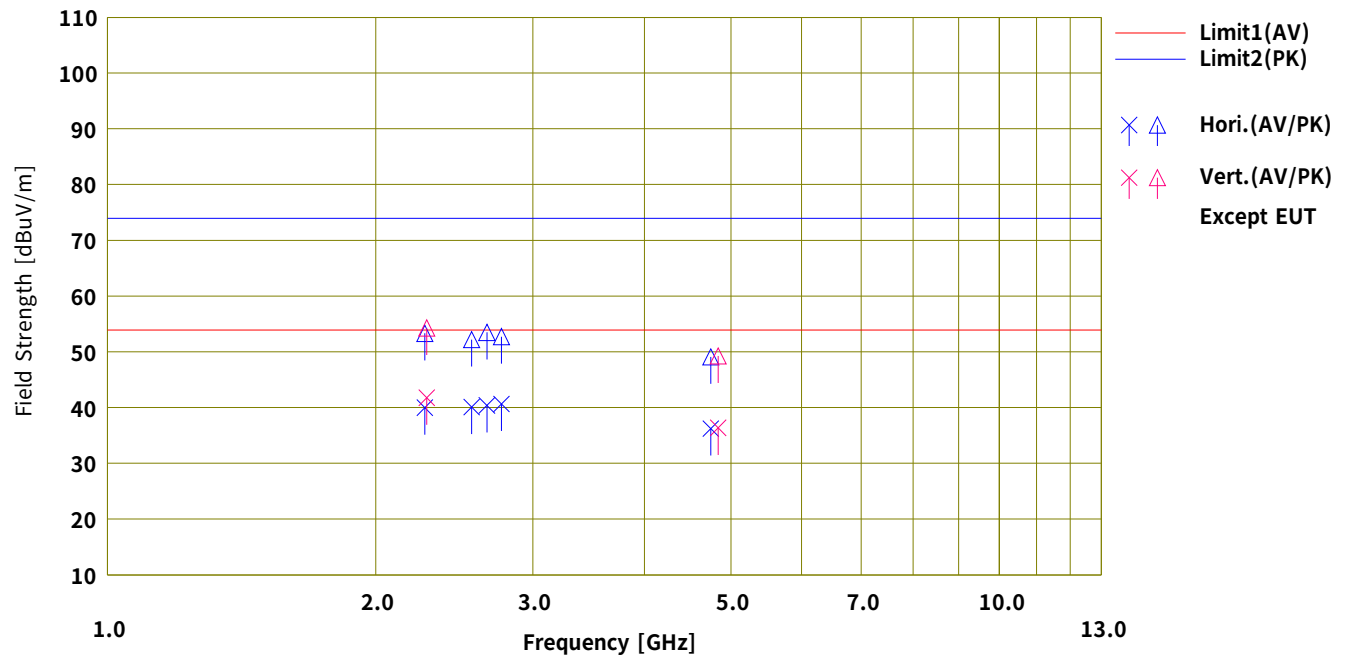
Date : 2019/03/14

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : Test Distance=375 cm EUT Axis Hori:X Vert:X

Mode : BT Communication + Charge  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 33 %RH

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

Engineer : Yusuke Tanikawara



| 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   | 2269.000 | 35.22   | 48.53  | 28.15   | 16.22 | 41.55 | 1.94  | 39.98    | 53.29    | 53.90    | 73.90    | 13.9   | 20.6 | Hori. | 100    | 1     | SHA02     |         |
| 2   | 2560.600 | 35.36   | 47.42  | 27.81   | 16.64 | 41.65 | 1.94  | 40.10    | 52.16    | 53.90    | 73.90    | 13.8   | 21.7 | Hori. | 100    | 359   | SHA02     |         |
| 3   | 2663.200 | 35.56   | 48.66  | 27.82   | 16.75 | 41.69 | 1.94  | 40.38    | 53.48    | 53.90    | 73.90    | 13.5   | 20.4 | Hori. | 100    | 1     | SHA02     |         |
| 4   | 2765.800 | 35.37   | 47.47  | 28.18   | 16.86 | 41.73 | 1.94  | 40.62    | 52.72    | 53.90    | 73.90    | 13.2   | 21.1 | Hori. | 100    | 359   | SHA02     |         |
| 5   | 4747.600 | 36.47   | 49.30  | 31.17   | 9.51  | 42.86 | 1.94  | 36.23    | 49.06    | 53.90    | 73.90    | 17.6   | 24.8 | Hori. | 100    | 1     | SHA02     |         |
| 6   | 2279.800 | 36.97   | 49.48  | 28.16   | 16.24 | 41.56 | 1.94  | 41.75    | 54.26    | 53.90    | 73.90    | 12.1   | 19.6 | Vert. | 100    | 359   | SHA02     |         |
| 7   | 4836.800 | 36.45   | 49.35  | 31.27   | 9.56  | 42.88 | 1.94  | 36.34    | 49.24    | 53.90    | 73.90    | 17.5   | 24.6 | Vert. | 100    | 1     | SHA02     |         |

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable+ATT or HighPassFilter)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna SHA\*\*: Horn Antenna

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber

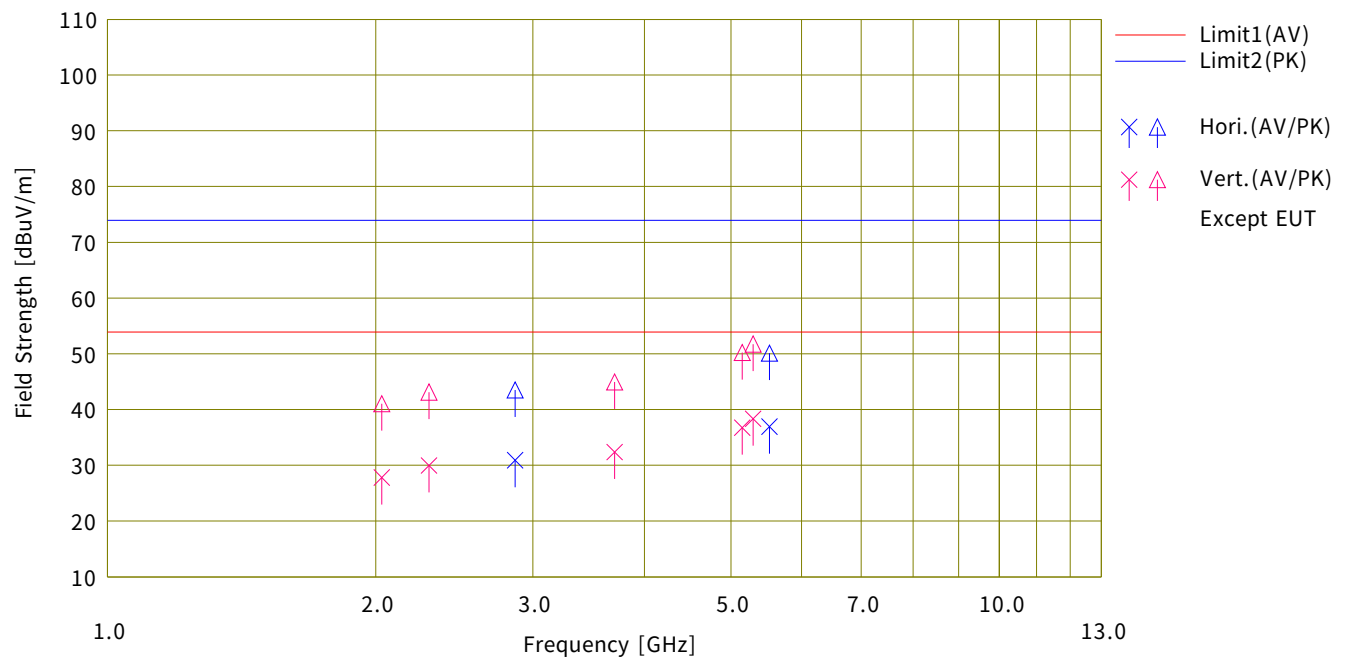
Date : 2019/03/14

Company : Foster Electric Company, Limited  
 Kind of EUT : Bluetooth Headphone  
 Model No. : MB WHP 1  
 Serial No. : 15  
 Remarks : Test Distance=375 cm EUT Axis Hori:X Vert:X

Mode : NFC + Charge + BT Standby  
 Order No. : 12652966S  
 Power : AC 120 V / 60 Hz  
 Temp./Humi. : 23 deg.C / 33 %RH

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

Engineer : Yusuke Tanikawara



| 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   | 2864.800 | 35.44   | 48.05  | 28.33   | 6.95 | 41.76 | 1.94  | 30.90    | 43.51    | 53.90    | 73.90    | 23.0   | 30.3 | Hori. | 100    | 1     | SHA02     |         |
| 2   | 5521.600 | 36.46   | 49.64  | 31.91   | 9.94 | 43.33 | 1.94  | 36.92    | 50.10    | 53.90    | 73.90    | 16.9   | 23.8 | Hori. | 100    | 359   | SHA02     |         |
| 3   | 2031.331 | 35.52   | 48.77  | 25.94   | 5.87 | 41.47 | 1.94  | 27.80    | 41.05    | 53.90    | 73.90    | 26.1   | 32.8 | Vert. | 100    | 1     | SHA02     |         |
| 4   | 2294.200 | 35.16   | 48.30  | 28.17   | 6.26 | 41.56 | 1.94  | 29.97    | 43.11    | 53.90    | 73.90    | 23.9   | 30.7 | Vert. | 100    | 359   | SHA02     |         |
| 5   | 3703.600 | 35.55   | 48.11  | 29.21   | 7.79 | 42.12 | 1.94  | 32.37    | 44.93    | 53.90    | 73.90    | 21.5   | 28.9 | Vert. | 100    | 1     | SHA02     |         |
| 6   | 5147.200 | 36.31   | 49.78  | 32.17   | 9.38 | 43.04 | 1.94  | 36.76    | 50.23    | 53.90    | 73.90    | 17.1   | 23.6 | Vert. | 100    | 359   | SHA02     |         |
| 7   | 5294.800 | 38.43   | 51.84  | 31.51   | 9.61 | 43.16 | 1.94  | 38.33    | 51.74    | 53.90    | 73.90    | 15.5   | 22.1 | Vert. | 100    | 1     | SHA02     |         |

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable)[dB] + D.Fac[dB] - Gain(AMP)[dB]

Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna SHA\*\*: Horn Antenna

**APPENDIX 3**

## Test Instruments

## EMI test equipment

| Local ID                       | Test Name | LIMS ID | Description               | Manufacturer                                | Model                                     | Serial                  | Last Calibration Date | Calibration Due Date | Calibration Interval (Month) |
|--------------------------------|-----------|---------|---------------------------|---------------------------------------------|-------------------------------------------|-------------------------|-----------------------|----------------------|------------------------------|
| KJM-09                         | CE        | 145929  | Measure                   | KOMELON                                     | KMC-36                                    | -                       | -                     | -                    | -                            |
| SAT3-13                        | CE        | 150923  | Attenuator                | JFW                                         | 50HF-003N                                 |                         | 2019/1/25             | 2020/1/31            | 12                           |
| SCC-A12/A13/SRS E-01           | CE        | 144966  | Coaxial Cable&RF Selector | Suhner/Suhner/TOYO                          | RG223U/141PE/NS4906                       | -/0901-269(RF Selector) | 2018/4/9              | 2019/4/30            | 12                           |
| SLS-02                         | CE        | 145539  | LISN                      | Rohde & Schwarz                             | ENV216                                    | 100512                  | 2019/2/20             | 2020/2/29            | 12                           |
| SOS-16                         | CE        | 167990  | Humidity Indicator        | CUSTOM                                      | CTH-202                                   | 708Q08R                 | 2019/1/11             | 2020/1/31            | 12                           |
| STR-01                         | CE        | 145790  | Test Receiver             | Rohde & Schwarz                             | ESU40                                     | 100093                  | 2018/4/13             | 2019/4/30            | 12                           |
| STS-01                         | CE        | 145792  | Digital Hitester          | HIOKI                                       | 3805-50                                   | 80997812                | 2018/10/16            | 2019/10/31           | 12                           |
| COTS-SEMI-5                    | CE,RE     | 170932  | EMI Software              | TSJ                                         | TEPTO-DV3(RE,CE,ME,PE)                    | -                       | -                     | -                    | -                            |
| KCC-D18/D19                    | RE        | 150894  | Coaxial cable             | Suhner                                      | SCOFLEX104                                | 268148/4, 268304/4      | 2019/2/25             | 2020/2/28            | 12                           |
| SAEC-02(NSA)                   | RE        | 145563  | Semi-Anechoic Chamber     | TDK                                         | SAEC-02(NSA)                              | 2                       | 2018/5/31             | 2019/5/31            | 12                           |
| SAEC-02(SVSWR)                 | RE        | 145598  | Semi-Anechoic Chamber     | TDK                                         | SAEC-02(SVSWR)                            | 2                       | 2018/7/15             | 2019/7/31            | 12                           |
| SAF-02                         | RE        | 145004  | Pre Amplifier             | SONOMA                                      | 310N                                      | 290212                  | 2019/2/5              | 2020/2/29            | 12                           |
| SAF-06                         | RE        | 145005  | Pre Amplifier             | Toyo Corporation                            | TPA0118-36                                | 1440491                 | 2019/2/8              | 2020/2/29            | 12                           |
| SAT10-06                       | RE        | 145137  | Attenuator                | AGILENT                                     | 8493C-010                                 | 74865                   | 2018/11/25            | 2019/11/30           | 12                           |
| SAT3-11                        | RE        | 150921  | Attenuator                | JFW                                         | 50HF-003N                                 | -                       | 2019/1/25             | 2020/1/31            | 12                           |
| SAT6-02                        | RE        | 145045  | Attenuator                | JFW                                         | 50HF-006N                                 | -                       | 2019/2/5              | 2020/2/29            | 12                           |
| SBA-02                         | RE        | 145022  | Biconical Antenna         | Schwarzbeck                                 | BBA9106                                   | 91032665                | 2018/6/5              | 2019/6/30            | 12                           |
| SCC-B1/B3/B5/B7/B8/B13/SRSE-02 | RE        | 144975  | Coaxial Cable&RF Selector | Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO | 8D2W/12DSFA/141PE/141PE/141PE/141PE/141PE | -/0901-270(RF Selector) | 2018/4/9              | 2019/4/30            | 12                           |
| SCC-B2/B4/B6/B7/B8/B13/SRSE-02 | RE        | 144976  | Coaxial Cable&RF Selector | Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO | 8D2W/12DSFA/141PE/141PE/141PE/141PE/141PE | -/0901-270(RF Selector) | 2018/4/7              | 2019/4/30            | 12                           |
| SCC-G41                        | RE        | 151617  | Coaxial Cable             | Junkosha                                    | MWX221-01000NFSNMS/B                      | 1612S006                | 2019/1/25             | 2020/1/31            | 12                           |
| SFL-02                         | RE        | 145301  | Highpass Filter           | MICRO-TRONICS                               | HPM50111                                  | 51                      | 2018/11/16            | 2019/11/30           | 12                           |
| SHA-02                         | RE        | 145384  | Horn Antenna              | Schwarzbeck                                 | BBHA9120D                                 | 9120D-726               | 2018/7/23             | 2019/7/31            | 12                           |

## EMI test equipment

| Local ID | Test Name | LIMS ID | Description         | Manufacturer    | Model      | Serial   | Last Calibration Date | Calibration Due Date | Calibration Interval (Month) |
|----------|-----------|---------|---------------------|-----------------|------------|----------|-----------------------|----------------------|------------------------------|
| SJM-09   | RE        | 145336  | Measure             | PROMART         | SEN1935    | -        | -                     | -                    | -                            |
| SLA-06   | RE        | 145528  | Logperiodic Antenna | Schwarzbeck     | VUSLP9111B | 195      | 2018/6/5              | 2019/6/30            | 12                           |
| SOS-03   | RE        | 146317  | Humidity Indicator  | A&D             | AD-5681    | 4063325  | 2018/10/25            | 2019/10/31           | 12                           |
| STR-07   | RE        | 146209  | Test Receiver       | Rohde & Schwarz | ESU26      | 100484   | 2018/9/26             | 2019/9/30            | 12                           |
| STS-02   | RE        | 145793  | Digital Hitester    | HIOKI           | 3805-50    | 80997819 | 2018/3/8              | 2019/3/31            | 12                           |

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

End of Report