
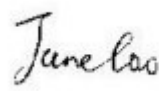
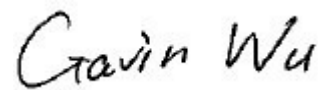




TEST REPORT

| | | | |
|--|---|---|-------------------|
| Report No.: | EM201200386-5 | Application No.: | ZJ00018316 |
| Client: | Harman International Industries, Incorporated | | |
| Address: | 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES | | |
| Sample Description: | JBL PowerUp Wireless Charging Speaker for Nokia | | |
| Model: | MD-100W | | |
| Test Location: | Guangzhou GRG Metrology and Test Co., Ltd. | | |
| Test Specification: | FCC Part 15,Subpart C:2010 | | |
| FCC ID: | APIMD100W | | |
| Test Date: | 2012-07-25 to 2012-09-20 | | |
| Issue Date: | 2012-09-20 | | |
| Test Result: | Pass. | | |
| Prepared By: | Reviewed By: | Approved By: | |
| Eddy Zong / Test Engineer | Jane Cao / Manager | Gavin Wu / Manager | |
|  |  |  | |
| Date:2012-09-20 | Date:2012-09-20 | Date:2012-09-20 | |
| Other Aspects: | | | |
| / | | | |
| Abbreviations: ok / P = passed; fail / F = failed; n.a. / N = not applicable | | | |
| The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT. | | | |

DIRECTIONS OF TEST

1. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.
2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.
3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.

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1. TEST RESULT SUMMARY

| Standard | Item | Limit / Severity | Result |
|-----------------------|--|-------------------------|---------------|
| FCC Part 15,Subpart C | Conducted Emission | Section 15.207 | PASS |
| | Radiated Spurious Emission (9kHz to 1GHz) | Section 15.209 | PASS |

2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Harman International Industries, Incorporated
 Address: 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES

2.2 MANUFACTURER

Name: Harman International Industries, Incorporated
 Address: 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: JBL PowerUp Wireless Charging Speaker for Nokia
 Model No.: MD-100W
 Trade Name: JBL, NOKIA
 Power supply: Input: 100-240V~ 50/60Hz 2A
 Output:18V-2.5A
 Frequency Range 112kHz~205kHz
 Test mode: Charging
 Antenna Type Induction coil

2.4 DESCRIPTION OF SUPPORT UNITS

| Name of Equipment | Manufacturer | Model | Serial Number |
|-------------------|--------------|-------|---------------|
| iphone | APPLE | A1303 | / |
| PC | Lenovo | E40 | 0578DTC |
| Simulation load | / | / | / |

2.5 DESCRIPTION OF THE EQUIPMENT UNDER TEST

A single direction data communication in the charging process. The Wireless charging speaker send power and receive the data of charged equipment how much power still need.

The product specification described herein was obtained from the product data sheet or user’s manual.

3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests and measurements refer to this report were performed by Guangzhou GRG Metrology and Test CO., LTD.

Add. : 163 Pingyun Rd, West of Huangpu Ave, Guangzhou, 510656, P. R. China

Telephone: +86-20-38699959, 38699960, 38699961

Fax : +86-20-38695185

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

| | |
|---------------|-----------------------------|
| USA | FCC Listed Lab (No. 688188) |
| China | CNAS (No.L0446) |
| China | DILAC (No.DL175) |
| Canada | Registration No.:8355A-1 |

3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | | Frequency | Uncertainty |
|--------------------|------------|---------------|-------------|
| Radiated Emission | Horizontal | 30MHz~1000MHz | 4.2dB |
| | | 1GHz~26.5GHz | 4.2dB |
| | Vertical | 30MHz~1000MHz | 4.4dB |
| | | 1GHz~26.5GHz | 4.4dB |
| | / | 9kHz~30MHz | 3.2dB |
| Conducted Emission | | 9kHz~30MHz | 3.1 dB |

This uncertainty represents an expanded uncertainty factor of $k=2$.

3.4 LIST OF USED TEST EQUIPMENT AT GRGT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|--------------------------------|---------------------|--------------|----------------------|------------------------|
| Conducted Emissions | | | | |
| EMI Receiver | R&S | ESU40 | 100529 | 2013-02-04 |
| L.I.S.N | SCHWARZBECK | NSLK 8127 | 8127450 | 2013-08-05 |
| Spurious Emissions | | | | |
| Receiver | R&S | ESU40 | 100106 | 2013-02-04 |
| Loop antenna | R&S | HFH2-Z2 | 881058/58 | 2014-05-26 |
| Biconical Log-periodic Antenna | ETS.LINDGREN | 3142C | 00075971 | 2014-05-26 |

4. TEST RESULTS

4.1 RADIATED SPURIOUS EMISSIONS

4.1.1 LIMITS

| Frequency (MHz) | Field strength limit($\mu\text{V/m}$) | Field strength limit (dB $\mu\text{V/m}$) | Measurement distance(m) |
|-----------------|---|--|-------------------------|
| 0.009 ~ 0.49 | $2400/F(\text{kHz})=266.7\sim 4.9$ | 48.5 ~ 13.8 | 300 |
| 0.49 ~1.705 | $24000/F(\text{kHz})= 49.0\sim 14.1$ | 33.8 ~23 | 30 |
| 1.705 ~30 | 30 | 29.5 | 30 |
| 30 ~ 88 | 100 | 40.0 | 3 |
| 88~216 | 150 | 43.5 | 3 |
| 216 ~ 960 | 200 | 46.0 | 3 |
| Above 960 | 500 | 54.0 | 3 |

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) The emission limits shown in the above table are based on measurement instrumentation employing a CISPR quasi-peak detector. For the frequency bands 9~90 kHz, 110~490 kHz and above 1000 MHz, the radiated emission limits are based on measurements employing an average detector.

Calculation of the field strength limits below 30 MHz:

For test distance other than what is specified, but fulfilling the requirements of section 15.31 (f) (2) the field strength is calculated by adding additionally an extrapolation factor of 40dB/decade (inverse linear distance for field strength measurements).

So the Distance Extrapolation Factor in dB is $40*\log(D_{\text{TEST}} / D_{\text{SPEC}})$ where D_{TEST} = Test Distance and D_{SPEC} = Specified Distance.

Field strength limit (dB $\mu\text{V/m}$)@test distance= Field strength limit (dB $\mu\text{V/m}$)@specified distance -Distance Extrapolation Factor

The radiated emission limit in 3m distance:

| Frequency (MHz) | Field strength limit (dB $\mu\text{V/m}$) | Measurement distance(m) |
|-----------------|--|-------------------------|
| 0.009 ~ 0.49 | 128.5 ~ 93.8 | 3 |
| 0.49 ~1.705 | 73.8 ~63.0 | 3 |
| 1.705 ~30 | 69.5 | 3 |
| 30 ~ 88 | 40.0 | 3 |
| 88~216 | 43.5 | 3 |
| 216 ~ 960 | 46.0 | 3 |
| Above 960 | 54.0 | 3 |

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) The emission limits shown in the above table are based on measurement instrumentation employing a CISPR quasi-peak detector. For the frequency bands 9~90 kHz, 110~490 kHz and above 1000 MHz, the radiated emission limits are based on measurements employing an average detector.

4.1.2 TEST PROCEDURE

Test procedures follow ANSI C63.4:2003.

Procedure of Preliminary Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height $0,8\text{ m} \pm 0,01\text{ m}$, ANSI C63.4 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

Above 30MHz: The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT 0 to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and peak reading is presented. The test data of the worst-case condition(s) was recorded.

Below 30MHz: The Analyzer / Receiver scanned from 9kHz to 30MHz. Emissions were scanned and measured rotating the EUT 0 to 360 degrees, varying cable placement and positioning the antenna 1 meters above the ground plane, in both the X,Y,Z axis of vertical polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna

position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and peak reading is presented. The test data of the worst-case condition(s) was recorded.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both polarizations, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

Below 30MHz:

Between 9kHz~90kHz and 110kHz~490kHz, we set spectrum analyzer detector function is average detector and other frequency range is Quasi-peak. The resolution bandwidth is in accordance with CISPR standard.

Above 30MHz:

Between 30MHz to 1GHz, we set spectrum analyzer detector function is Quasi-peak. The resolution bandwidth is in accordance with CISPR standard..

Note:

The device test in charging mode. The charging frequency will be changed with load, which means that the more load, the lower frequency will be. The max load is 50Ω and the min load is 8Ω.

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data..

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

4.1.3 TEST SETUP

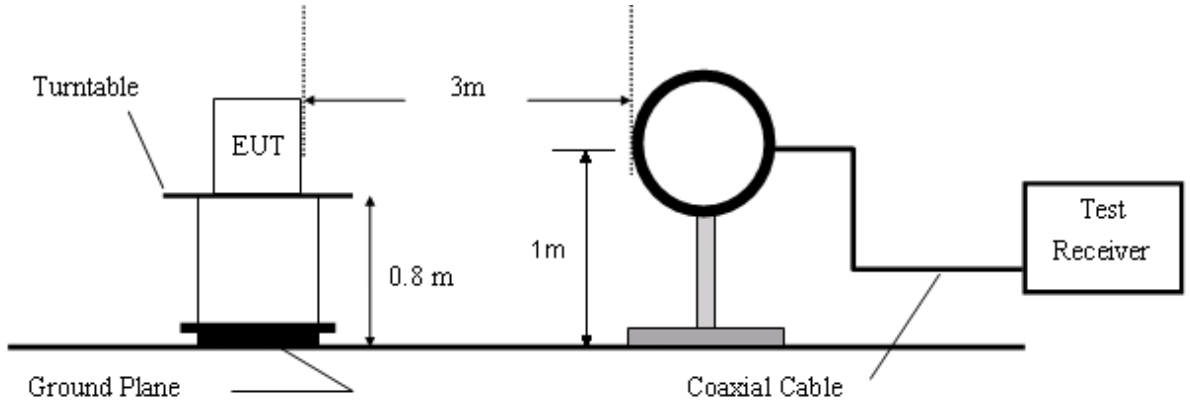


Figure 1. 9KHz to 30MHz radiated emissions test configuration

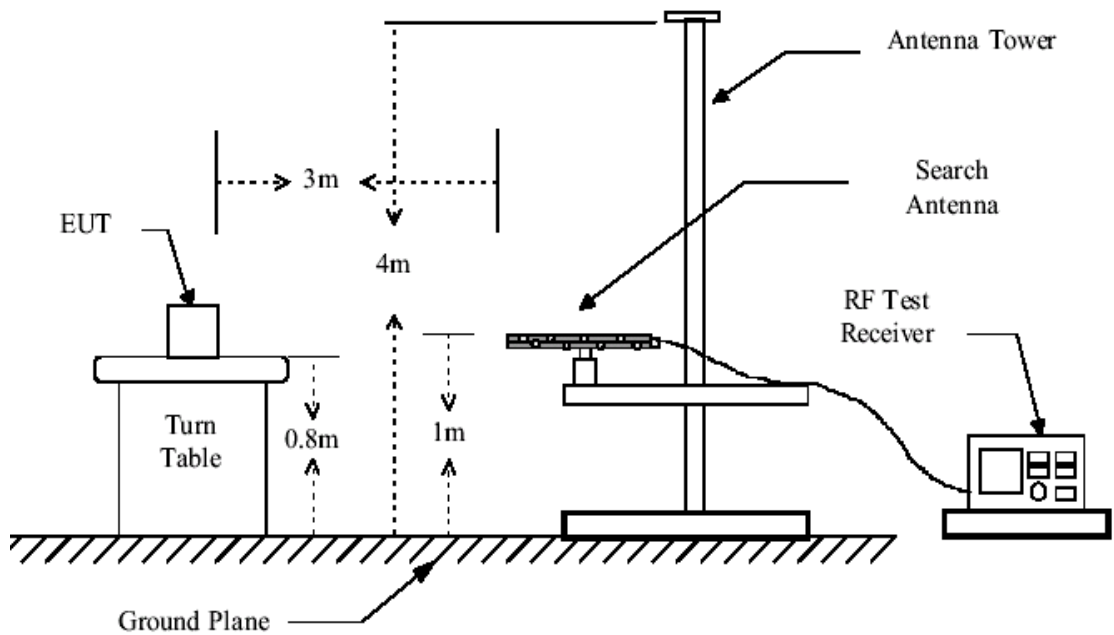


Figure 2. 30MHz to 1GHz radiated emissions test configuration

4.1.4 TEST RESULTS

Field strength below 30MHz

1. Low Frequency 112.91 kHz (Load=50Ω)

90 ~ 110 kHz and above 490 kHz emissions .Quasi-Peak Measurement

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.1026 | 72.55 | -31.08 | 41.47 | 107.34 | -65.87 | X |
| 2 | 0.6565 | 45.03 | -31.20 | 13.83 | 71.3 | -57.47 | X |
| 3 | 0.9186 | 44.94 | -31.22 | 13.72 | 68.3 | -54.58 | X |

9 ~ 90 kHz and 110 ~ 490 kHz emissions. Peak & Average Measurement

Peak Measurement:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.1129 | 115.20 | -31.08 | 63.45 | 126.47 | -63.02 | X |
| 2 | 0.1490 | 87.88 | -31.08 | 56.80 | 124.11 | -67.31 | X |
| 3 | 0.2694 | 87.07 | -31.07 | 56.00 | 118.98 | -62.98 | X |

AV Measurement:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.1129 | 95.20 | -31.08 | 59.12 | 106.47 | -47.35 | X |
| 2 | 0.1490 | 72.39 | -31.08 | 41.31 | 104.11 | -62.80 | X |
| 3 | 0.2694 | 67.40 | -31.07 | 36.33 | 98.98 | -62.65 | X |

2. Middle Frequency 162.80 kHz (Load=25Ω)

90 ~ 110 kHz and above 490 kHz emissions .Quasi-Peak Measurement

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.1027 | 80.13 | -31.08 | 49.05 | 107.29 | -58.24 | X |

9 ~ 90 kHz and 110 ~ 490 kHz emissions. Average Measurement

Peak Measurement:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.1628 | 104.76 | -31.08 | 61.68 | 123.4 | -61.72 | X |

AV Measurement:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.1628 | 89.45 | -31.08 | 55.37 | 103.4 | -48.03 | X |

3. High Frequency 204.17 kHz (Load=8Ω)

90 ~ 110 kHz and above 490 kHz emissions .Quasi-Peak Measurement

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.8226 | 56.17 | -31.21 | 24.96 | 69.3 | -44.34 | X |

9 ~ 90 kHz and 110 ~ 490 kHz emissions. Average Measurement

Peak Measurement:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.2042 | 95.35 | -31.08 | 59.27 | 121.36 | -62.09 | X |

AV Measurement:

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Antenna polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------------------|
| 1 | 0.2042 | 78.85 | -31.08 | 44.77 | 101.36 | -56.59 | X |

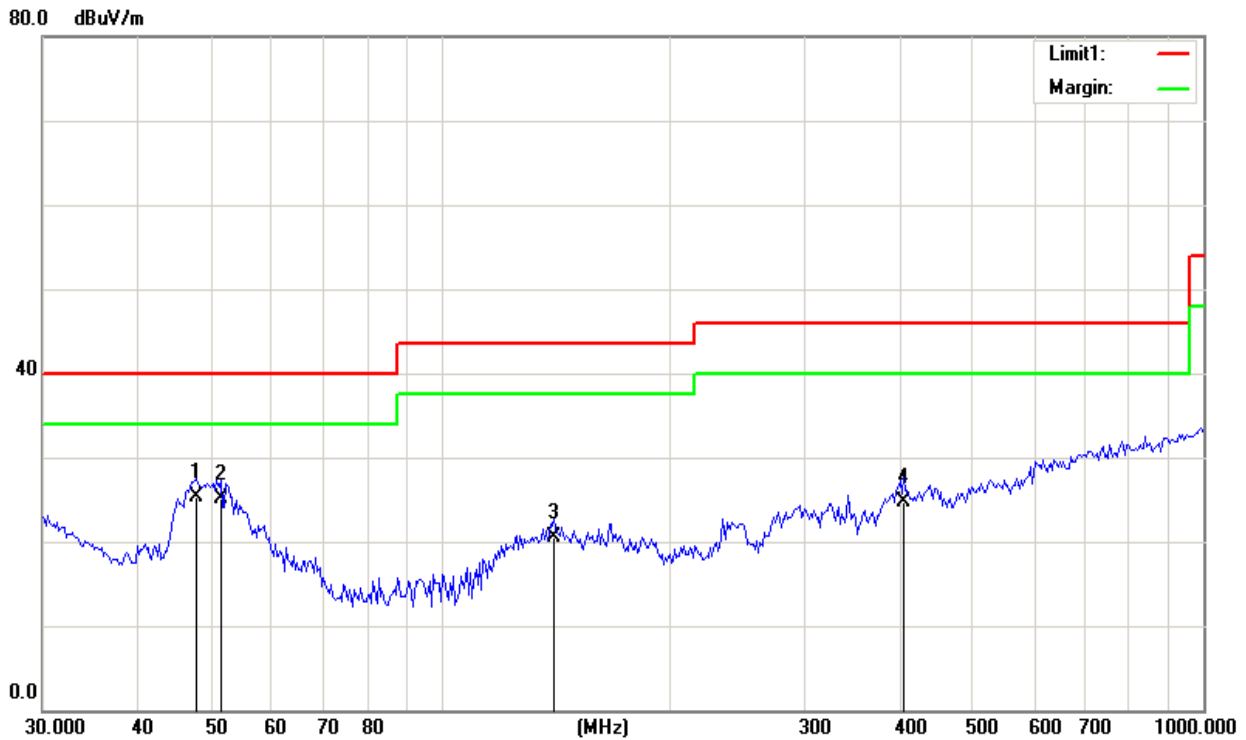
The field strength is calculated by adding the Antenna Factor. Correct Factor.

The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Correct Factor

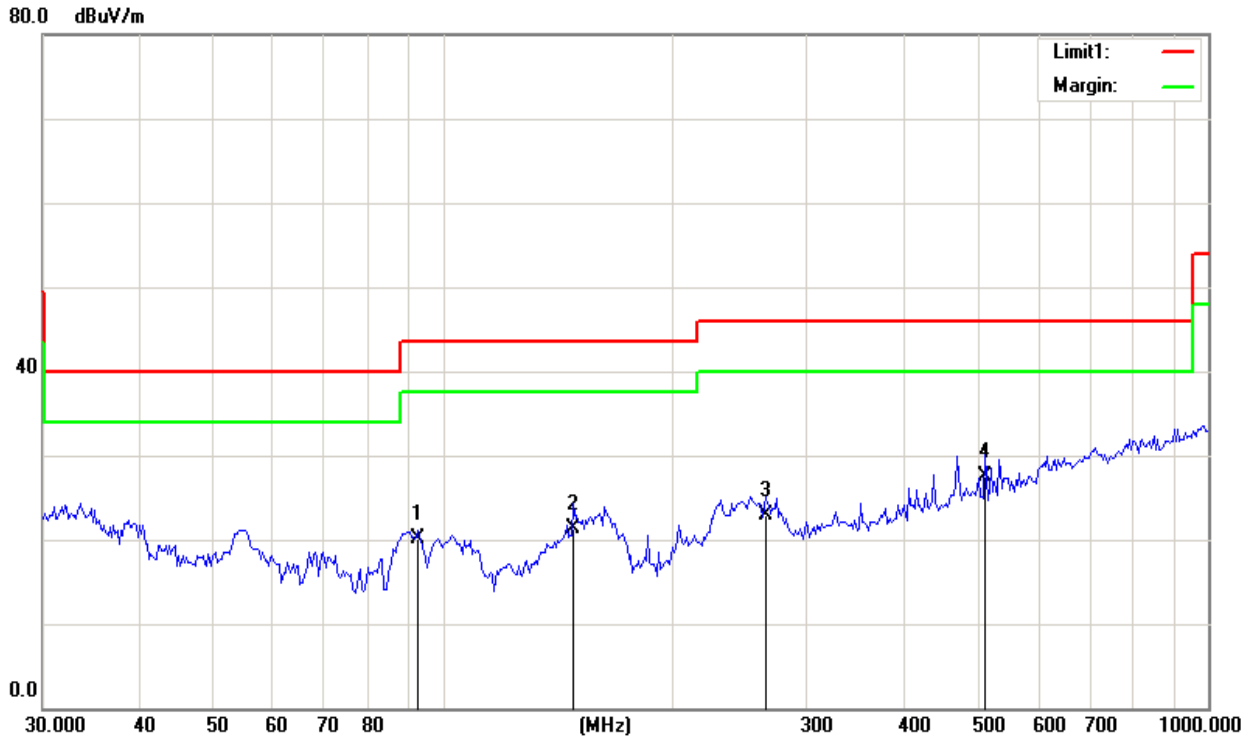
Field strength above 30MHz

| | | | |
|-------------------------|--|----------------------|--------------|
| Test Result: | Pass | Probe: | Vertical |
| Standard: | (RE)FCC PART 15-QI 3m | Power Source: | AC 120V/60Hz |
| Test item: | Radiation Test | Date: | 2012-8-28 |
| Temp./Hum.(%RH): | 23/55%RH | Time: | 16:32:29 |
| EUT: | JBL PowerUp Wireless Charging Speaker for Nokia | Model: | MD-100W |
| Note: | Test in Charging mode | | |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|---------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 1 | 47.8282 | 14.78 | 10.52 | 25.30 | 40.00 | -14.70 | QP |
| 2 | 51.4530 | 15.72 | 9.48 | 25.20 | 40.00 | -14.80 | QP |
| 3 | 140.6895 | 11.24 | 9.26 | 20.50 | 43.50 | -23.00 | QP |
| 4 | 404.6482 | 6.58 | 18.22 | 24.80 | 46.00 | -21.20 | QP |

| | | | |
|-------------------------|--|----------------------|---------------------|
| Test Result: | Pass | Probe: | Horizontal |
| Standard: | (RE)FCC PART 15-QI 3m | Power Source: | AC 120V/60Hz |
| Test item: | Radiation Test | Date: | 2012-8-28 |
| Temp./Hum.(%RH): | 23/55%RH | Time: | 16:26:15 |
| EUT: | JBL PowerUp Wireless Charging Speaker for Nokia | Model: | MD-100W |
| Note: | Test in Charging mode | | |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 92.8248 | 10.37 | 9.73 | 20.10 | 43.50 | -23.40 | QP |
| 2 | 147.9879 | 11.46 | 9.94 | 21.40 | 43.50 | -22.10 | QP |
| 3 | 263.9970 | 8.88 | 14.02 | 22.90 | 46.00 | -23.10 | QP |
| 4 | 512.3647 | 7.39 | 20.21 | 27.60 | 46.00 | -18.40 | QP |

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS

| Frequency range | Limits (dB μ V) | |
|-----------------|---------------------|---------|
| | Quasi-peak | Average |
| 150kHz ~ 0.5MHz | 66~56 | 56~46 |
| 0.5 MHz ~ 5 MHz | 56 | 46 |
| 5 MHz ~ 30 MHz | 60 | 50 |

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 150kHz to 0.5MHz.

4.2.2 TEST PROCEDURES

Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

- Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

- 1) place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

- 2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

- All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

- The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

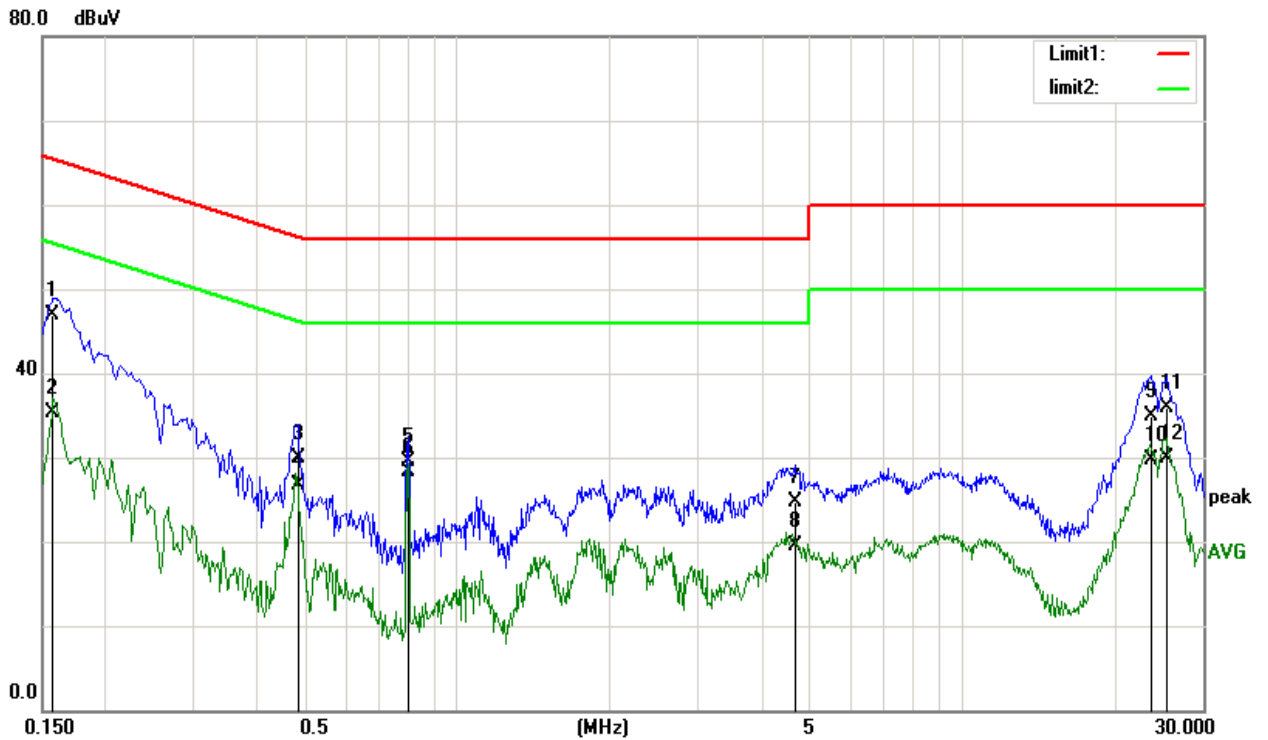
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

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

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission

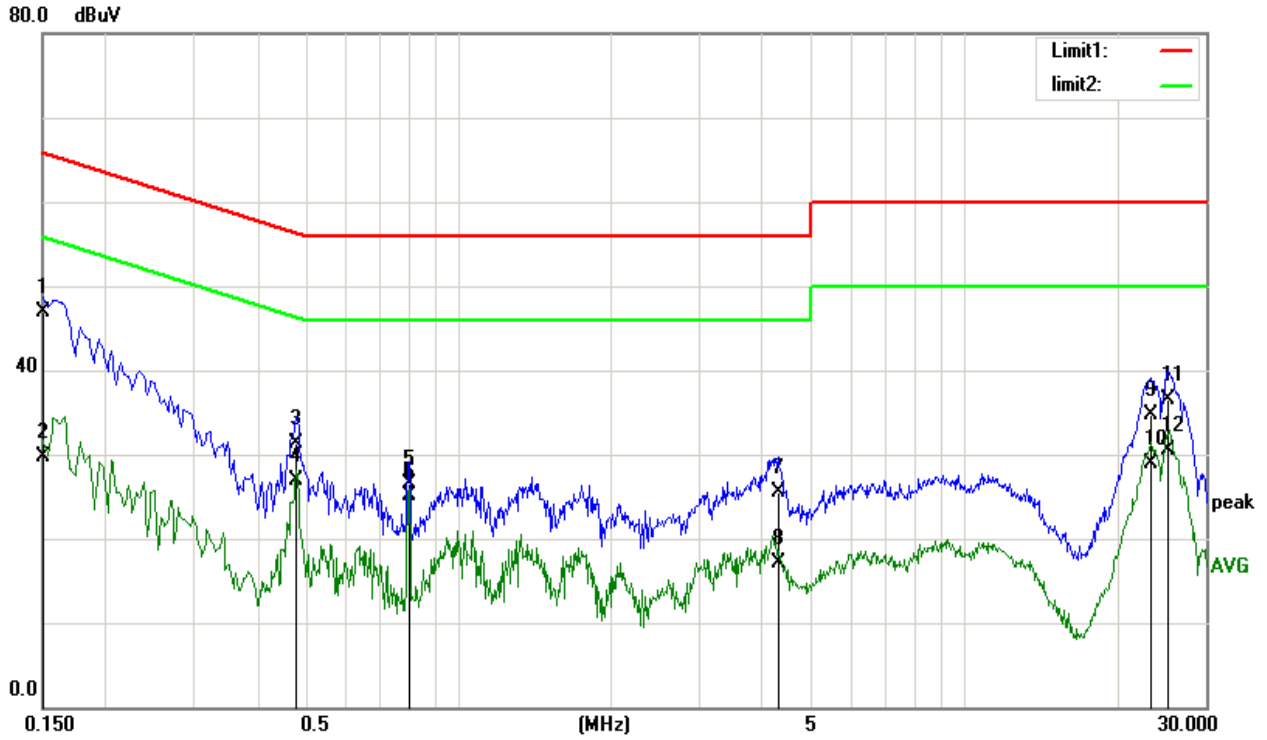
4.2.4 TEST RESULTS

| | | | |
|-------------------------|--|----------------------|---------------------|
| Test Result: | Pass | Probe: | L |
| Standard: | (CE)FCC Part15_QP | Power Source: | AC 120V/60Hz |
| Test item: | Conduction Test | Date: | 2012-9-20 |
| Temp./Hum.(%RH): | 23/55%RH | Time: | 9:27:22 |
| EUT: | JBL PowerUp Wireless Charging Speaker for Nokia | Model: | MD-100W |
| Note: | Operating at (112.91Hz) | | |



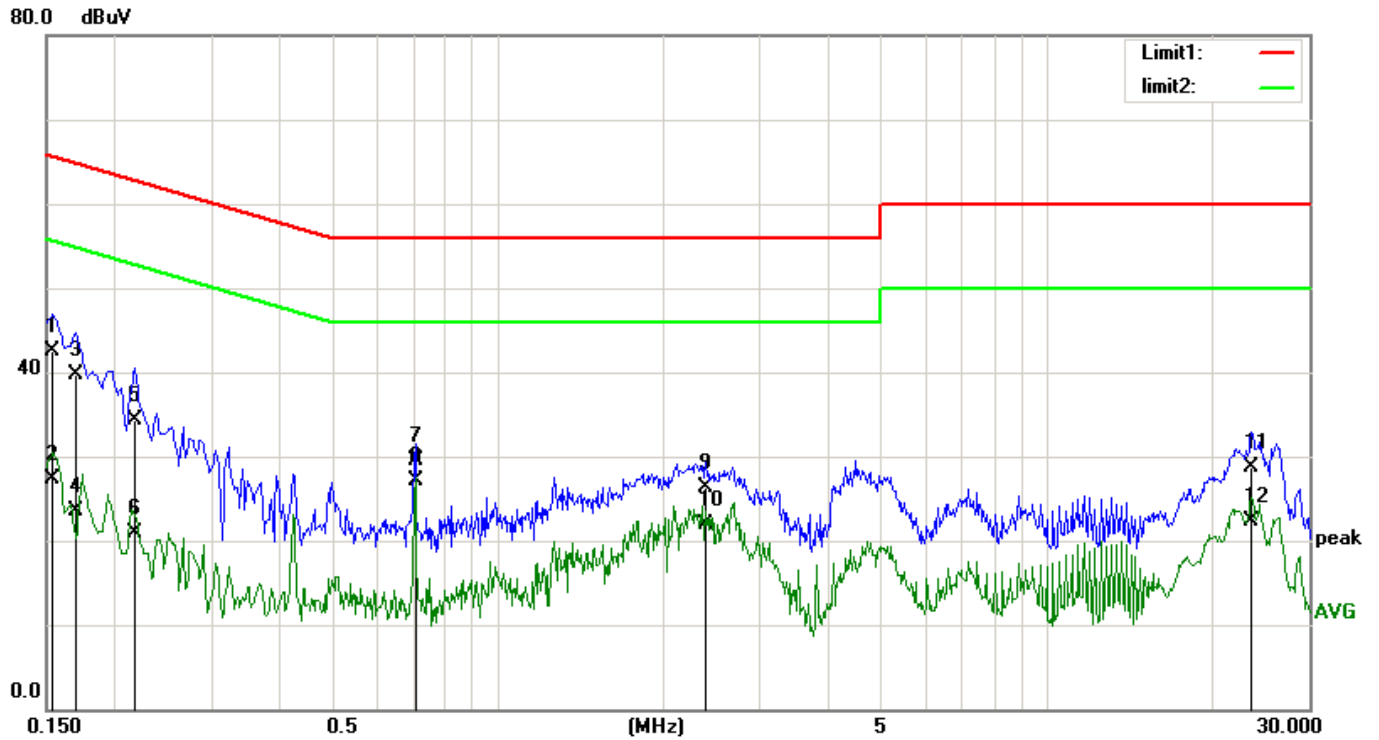
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|--------|
| 1 | 0.1580 | 35.09 | 11.81 | 46.90 | 65.56 | -18.66 | QP |
| 2 | 0.1580 | 23.49 | 11.81 | 35.30 | 55.56 | -20.26 | AVG |
| 3 | 0.4820 | 19.42 | 10.58 | 30.00 | 56.30 | -26.30 | QP |
| 4 | 0.4820 | 16.22 | 10.58 | 26.80 | 46.30 | -19.50 | AVG |
| 5 | 0.7980 | 19.19 | 10.41 | 29.60 | 56.00 | -26.40 | QP |
| 6 | 0.7980 | 17.89 | 10.41 | 28.30 | 46.00 | -17.70 | AVG |
| 7 | 4.6540 | 13.99 | 10.71 | 24.70 | 56.00 | -31.30 | QP |
| 8 | 4.6540 | 8.89 | 10.71 | 19.60 | 46.00 | -26.40 | AVG |
| 9 | 23.6420 | 23.80 | 11.10 | 34.90 | 60.00 | -25.10 | QP |
| 10 | 23.6420 | 18.70 | 11.10 | 29.80 | 50.00 | -20.20 | AVG |
| 11 | 25.4780 | 24.68 | 11.22 | 35.90 | 60.00 | -24.10 | QP |
| 12 | 25.4780 | 18.68 | 11.22 | 29.90 | 50.00 | -20.10 | AVG |

| | | | |
|-------------------------|--|----------------------|---------------------|
| Test Result: | Pass | Probe: | N |
| Standard: | (CE)FCC Part15_QP | Power Source: | AC 120V/60Hz |
| Test item: | Conduction Test | Date: | 2012-9-20 |
| Temp./Hum.(%RH): | 23/55%RH | Time: | 9:34:45 |
| EUT: | JBL PowerUp Wireless Charging Speaker for Nokia | Model: | MD-100W |
| Note: | Operating at (112.91Hz) | | |



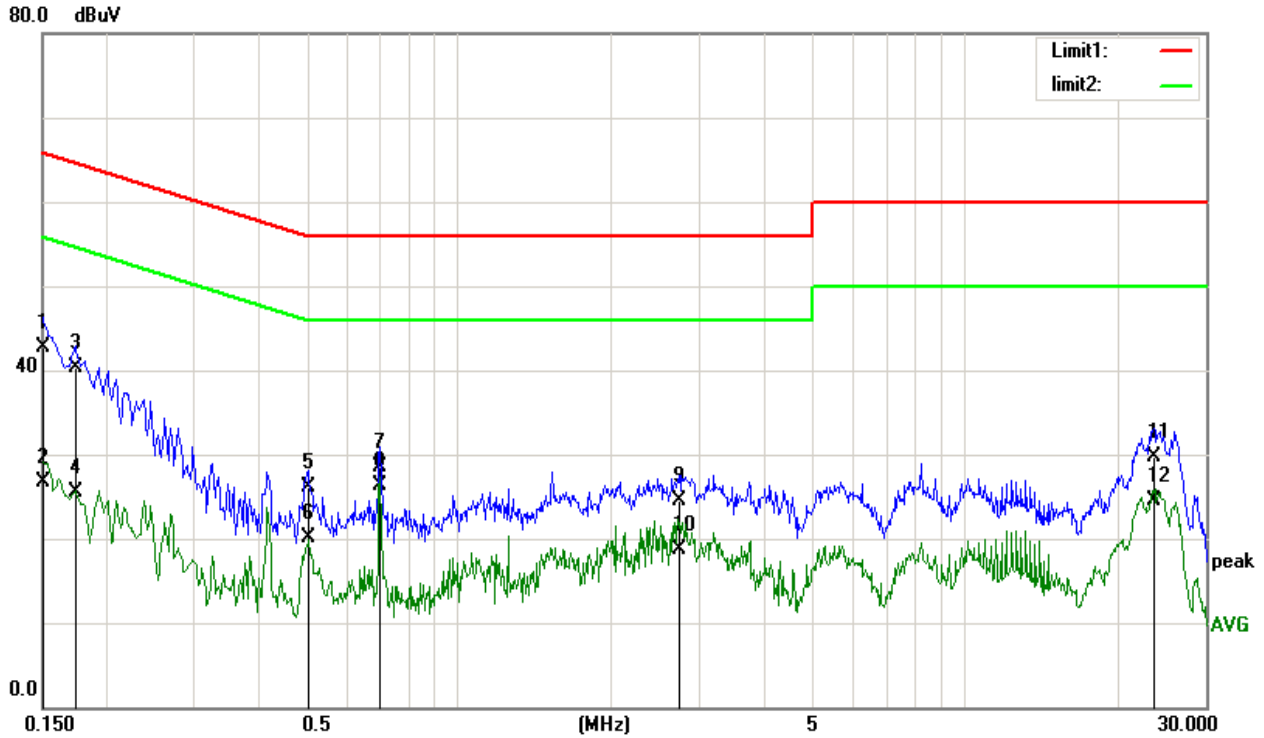
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|--------|
| 1 | 0.1500 | 35.08 | 11.92 | 47.00 | 65.99 | -18.99 | QP |
| 2 | 0.1500 | 17.78 | 11.92 | 29.70 | 55.99 | -26.29 | AVG |
| 3 | 0.4780 | 20.81 | 10.59 | 31.40 | 56.37 | -24.97 | QP |
| 4 | 0.4780 | 16.31 | 10.59 | 26.90 | 46.37 | -19.47 | AVG |
| 5 | 0.7980 | 16.09 | 10.41 | 26.50 | 56.00 | -29.50 | QP |
| 6 | 0.7980 | 14.69 | 10.41 | 25.10 | 46.00 | -20.90 | AVG |
| 7 | 4.2780 | 14.89 | 10.71 | 25.60 | 56.00 | -30.40 | QP |
| 8 | 4.2780 | 6.39 | 10.71 | 17.10 | 46.00 | -28.90 | AVG |
| 9 | 23.3500 | 23.68 | 11.12 | 34.80 | 60.00 | -25.20 | QP |
| 10 | 23.3500 | 17.88 | 11.12 | 29.00 | 50.00 | -21.00 | AVG |
| 11 | 25.2580 | 25.32 | 11.18 | 36.50 | 60.00 | -23.50 | QP |
| 12 | 25.2580 | 19.42 | 11.18 | 30.60 | 50.00 | -19.40 | AVG |

| | | | |
|-------------------------|--|----------------------|--------------|
| Test Result: | Pass | Probe: | L |
| Standard: | (CE)FCC Part15_QP | Power Source: | AC 120V/60Hz |
| Test item: | Conduction Test | Date: | 2012-9-20 |
| Temp./Hum.(%RH): | 23/55%RH | Time: | 9:43:18 |
| EUT: | JBL PowerUp Wireless Charging Speaker for Nokia | Model: | MD-100W |
| Note: | Operating at (162.80Hz) | | |



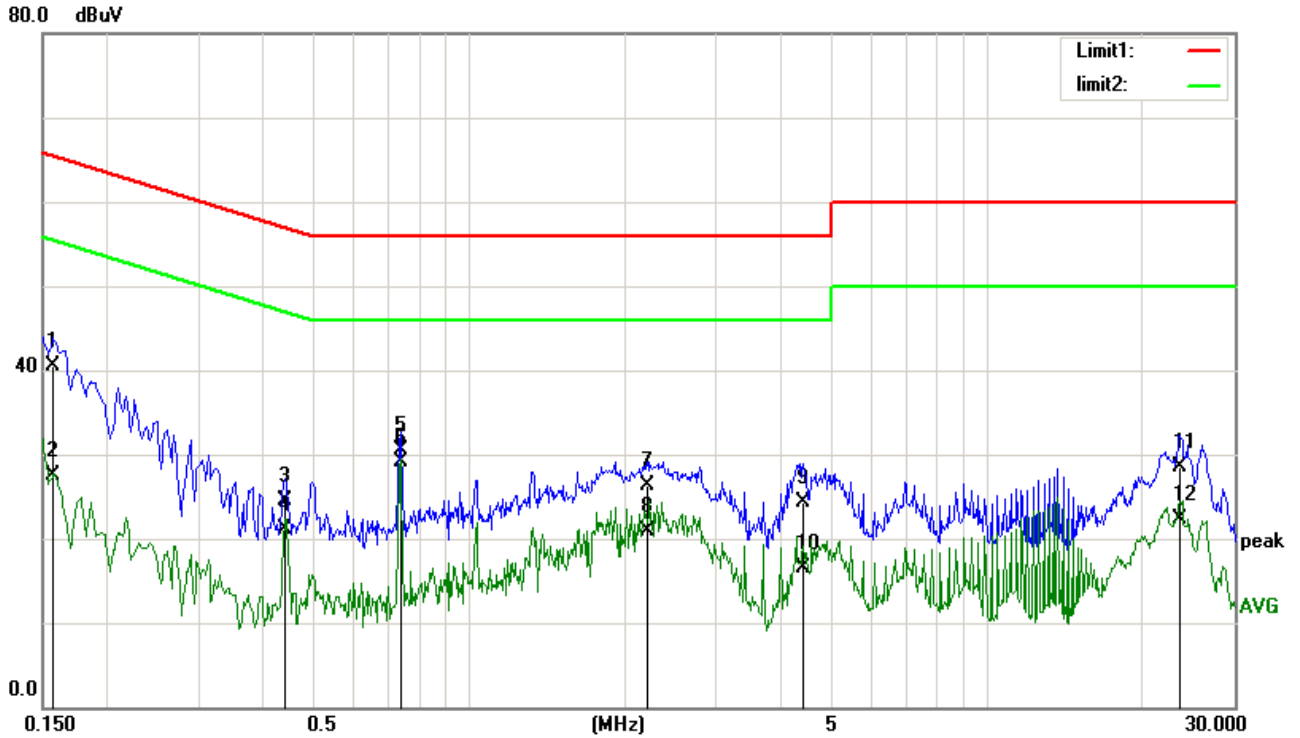
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|--------|
| 1 | 0.1539 | 30.65 | 11.85 | 42.50 | 65.78 | -23.28 | QP |
| 2 | 0.1539 | 15.45 | 11.85 | 27.30 | 55.78 | -28.48 | AVG |
| 3 | 0.1700 | 28.15 | 11.65 | 39.80 | 64.96 | -25.16 | QP |
| 4 | 0.1700 | 11.85 | 11.65 | 23.50 | 54.96 | -31.46 | AVG |
| 5 | 0.2180 | 23.24 | 11.06 | 34.30 | 62.89 | -28.59 | QP |
| 6 | 0.2180 | 9.84 | 11.06 | 20.90 | 52.89 | -31.99 | AVG |
| 7 | 0.7060 | 19.09 | 10.41 | 29.50 | 56.00 | -26.50 | QP |
| 8 | 0.7060 | 16.69 | 10.41 | 27.10 | 46.00 | -18.90 | AVG |
| 9 | 2.3940 | 15.68 | 10.62 | 26.30 | 56.00 | -29.70 | QP |
| 10 | 2.3940 | 11.28 | 10.62 | 21.90 | 46.00 | -24.10 | AVG |
| 11 | 23.5260 | 17.59 | 11.11 | 28.70 | 60.00 | -31.30 | QP |
| 12 | 23.5260 | 11.29 | 11.11 | 22.40 | 50.00 | -27.60 | AVG |

| | | | |
|-------------------------|--|----------------------|--------------|
| Test Result: | Pass | Probe: | N |
| Standard: | (CE)FCC Part15_QP | Power Source: | AC 120V/60Hz |
| Test item: | Conduction Test | Date: | 2012-9-20 |
| Temp./Hum.(%RH): | 23/55%RH | Time: | 9:47:07 |
| EUT: | JBL PowerUp Wireless Charging Speaker for Nokia | Model: | MD-100W |
| Note: | Operating at (162.80Hz) | | |



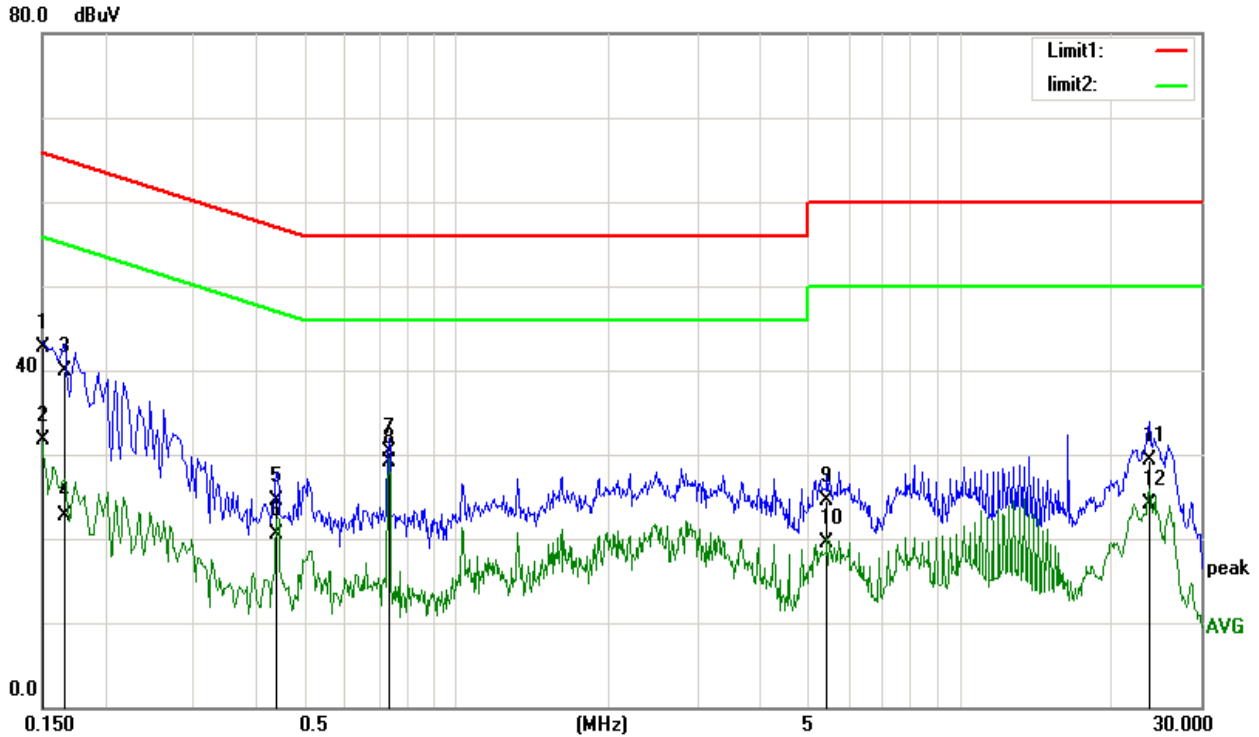
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|--------|
| 1 | 0.1500 | 30.88 | 11.92 | 42.80 | 65.99 | -23.19 | QP |
| 2 | 0.1500 | 14.78 | 11.92 | 26.70 | 55.99 | -29.29 | AVG |
| 3 | 0.1740 | 28.83 | 11.57 | 40.40 | 64.76 | -24.36 | QP |
| 4 | 0.1740 | 14.03 | 11.57 | 25.60 | 54.76 | -29.16 | AVG |
| 5 | 0.5020 | 15.55 | 10.55 | 26.10 | 56.00 | -29.90 | QP |
| 6 | 0.5020 | 9.55 | 10.55 | 20.10 | 46.00 | -25.90 | AVG |
| 7 | 0.6980 | 18.09 | 10.41 | 28.50 | 56.00 | -27.50 | QP |
| 8 | 0.6980 | 15.89 | 10.41 | 26.30 | 46.00 | -19.70 | AVG |
| 9 | 2.7340 | 13.79 | 10.71 | 24.50 | 56.00 | -31.50 | QP |
| 10 | 2.7340 | 7.99 | 10.71 | 18.70 | 46.00 | -27.30 | AVG |
| 11 | 23.6940 | 18.60 | 11.10 | 29.70 | 60.00 | -30.30 | QP |
| 12 | 23.6940 | 13.50 | 11.10 | 24.60 | 50.00 | -25.40 | AVG |

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|-------------------------|--|----------------------|--------------|
| Test Result: | Pass | Probe: | L |
| Standard: | (CE)FCC Part15_QP | Power Source: | AC 120V/60Hz |
| Test item: | Conduction Test | Date: | 2012-9-20 |
| Temp./Hum.(%RH): | 23/55%RH | Time: | 9:54:16 |
| EUT: | JBL PowerUp Wireless Charging Speaker for Nokia | Model: | MD-100W |
| Note: | Operating at (204.17Hz) | | |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|--------|
| 1 | 0.1580 | 28.79 | 11.81 | 40.60 | 65.56 | -24.96 | QP |
| 2 | 0.1580 | 15.69 | 11.81 | 27.50 | 55.56 | -28.06 | AVG |
| 3 | 0.4420 | 13.95 | 10.65 | 24.60 | 57.02 | -32.42 | QP |
| 4 | 0.4420 | 10.45 | 10.65 | 21.10 | 47.02 | -25.92 | AVG |
| 5 | 0.7380 | 20.19 | 10.41 | 30.60 | 56.00 | -25.40 | QP |
| 6 | 0.7380 | 18.79 | 10.41 | 29.20 | 46.00 | -16.80 | AVG |
| 7 | 2.2060 | 15.69 | 10.61 | 26.30 | 56.00 | -29.70 | QP |
| 8 | 2.2060 | 10.29 | 10.61 | 20.90 | 46.00 | -25.10 | AVG |
| 9 | 4.4300 | 13.69 | 10.71 | 24.40 | 56.00 | -31.60 | QP |
| 10 | 4.4300 | 5.89 | 10.71 | 16.60 | 46.00 | -29.40 | AVG |
| 11 | 23.5340 | 17.39 | 11.11 | 28.50 | 60.00 | -31.50 | QP |
| 12 | 23.5340 | 11.29 | 11.11 | 22.40 | 50.00 | -27.60 | AVG |

| | | | |
|-------------------------|---|----------------------|--------------|
| Test Result: | Pass | Probe: | N |
| Standard: | (CE)FCC Part15_QP | Power Source: | AC 120V/60Hz |
| Test item: | Conduction Test | Date: | 2012-9-20 |
| Temp./Hum.(%RH): | 23/55%RH | Time: | 9:50:50 |
| EUT: | JBL Power Up Wireless Charging Speaker for Nokia | Model: | MD-100W |
| Note: | Operating at (204.17Hz) | | |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|--------|
| 1 | 0.1500 | 30.78 | 11.92 | 42.70 | 65.99 | -23.29 | QP |
| 2 | 0.1500 | 19.88 | 11.92 | 31.80 | 55.99 | -24.19 | AVG |
| 3 | 0.1660 | 28.18 | 11.72 | 39.90 | 65.15 | -25.25 | QP |
| 4 | 0.1660 | 10.98 | 11.72 | 22.70 | 55.15 | -32.45 | AVG |
| 5 | 0.4380 | 13.94 | 10.66 | 24.60 | 57.10 | -32.50 | QP |
| 6 | 0.4380 | 9.84 | 10.66 | 20.50 | 47.10 | -26.60 | AVG |
| 7 | 0.7340 | 19.89 | 10.41 | 30.30 | 56.00 | -25.70 | QP |
| 8 | 0.7340 | 18.69 | 10.41 | 29.10 | 46.00 | -16.90 | AVG |
| 9 | 5.4340 | 13.79 | 10.81 | 24.60 | 60.00 | -35.40 | QP |
| 10 | 5.4340 | 8.79 | 10.81 | 19.60 | 50.00 | -30.40 | AVG |
| 11 | 23.6980 | 18.20 | 11.10 | 29.30 | 60.00 | -30.70 | QP |
| 12 | 23.6980 | 13.10 | 11.10 | 24.20 | 50.00 | -25.80 | AVG |

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