

TEST REPORT

Application No.: SZEM1812010349CR
Applicant: Shenzhen Horn Audio Co., Ltd
Address of Applicant: No.6, 4th Guihua Road, Pingshan District, Shenzhen, 518118 China
Manufacturer: Shenzhen Horn Audio Co., Ltd
Address of Manufacturer: No.6, 4th Guihua Road, Pingshan District, Shenzhen, Guangdong, P.R.China
Factory: Shenzhen Horn Audio Co., Ltd
Address of Factory: No.6, 4th Guihua Road, Pingshan District, Shenzhen, Guangdong, P.R.China
Equipment Under Test (EUT):
EUT Name: Wireless Charger
Model No.: WIC-001
Trade mark: Horn
FCC ID: ZXC-WIC-001
Standard(s) : 47 CFR Part 18
Date of Receipt: 2018-12-03
Date of Test: 2018-12-06 to 2018-12-13
Date of Issue: 2018-12-20

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

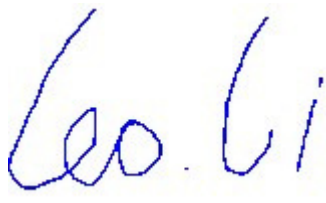

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



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| <i>Revision Record</i> | | | | |
|------------------------|----------------|-------------|-----------------|---------------|
| <i>Version</i> | <i>Chapter</i> | <i>Date</i> | <i>Modifier</i> | <i>Remark</i> |
| 01 | | 2018-12-20 | | Original |
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| | | | |
|---------------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | <hr/> Leo Li /Project Engineer | |
| | |  | |
| | | <hr/> Eric Fu /Reviewer | |



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2 Test Summary

| Radio Spectrum Matter Part | | | | |
|---|----------------|-------------------|--------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at Mains Terminals (150kHz-30MHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | 47 CFR Part 18.307 | Pass |
| Radiated Emissions (9kHz-30MHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | 47 CFR Part 18.305 | Pass |



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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|--|
| Power supply: | DC 5V from USB port Input: DC 5V/2A, DC 9V/1.67A Output: WPC: 5W(DC 5V/1A), 7.5W(DC 5V1.5A), 10W(DC 9V/1.1A) |
| Cable: | USB cable: 100cm shielded |
| Antenna Type: | Loop Antenna |
| Modulation Type: | Load Modulation |
| Operation Frequency: | 108.65kHz to 148.24kHz |
| Remark: | 1) Tests were conducted in all three load modes and the worst case (DC 9V/1.1A) is reported only. 2) This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge. |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--------------|--------------|-----------|----------------|
| Adapter | SAMSUNG | EP-TA200 | R37J8YA7W71DK3 |
| iPhone 8 | Apple | A1863 | F4GVQ656JC6D |
| Mobile Phone | SAMSUNG | SM-G9500 | R28J9140LPB |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|---------------------------------|
| 1 | Radio Frequency | $\pm 7.25 \times 10^{-8}$ |
| 2 | Duty cycle | $\pm 0.37\%$ |
| 3 | Occupied Bandwidth | $\pm 3\%$ |
| 4 | RF conducted power | $\pm 0.75\text{dB}$ |
| 5 | RF power density | $\pm 2.84\text{dB}$ |
| 6 | Conducted Spurious emissions | $\pm 0.75\text{dB}$ |
| 7 | RF Radiated power | $\pm 4.5\text{dB}$ (below 1GHz) |
| | | $\pm 4.8\text{dB}$ (above 1GHz) |
| 8 | Radiated Spurious emission test | $\pm 4.5\text{dB}$ (Below 1GHz) |
| | | $\pm 4.8\text{dB}$ (Above 1GHz) |
| 9 | Temperature test | $\pm 1^\circ\text{C}$ |
| 10 | Humidity test | $\pm 3\%$ |
| 11 | Supply voltages | $\pm 1.5\%$ |
| 12 | Time | $\pm 3\%$ |



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted disturbance | | | | | |
|-----------------------|-------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | ChangZhou ZhongYu | GB-88 | SEM001-06 | 2017-05-10 | 2020-05-09 |
| Measurement Software | AUDIX | e3 V5.4.1221d | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2018-07-12 | 2019-07-11 |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2018-09-25 | 2019-09-24 |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2018-04-02 | 2019-04-01 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2018-04-02 | 2019-04-01 |

| Radiated emission | | | | | |
|---------------------------------------|----------------------|-----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2018-07-12 | 2019-07-11 |
| EMI Test Receiver (9kHz-7GHz) | Rohde & Schwarz | ESR | SEM004-03 | 2018-04-02 | 2019-04-01 |
| Trilog-Broadband Antenna (30MHz-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2016-06-29 | 2019-06-28 |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2018-04-13 | 2019-04-12 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |

| General used equipment | | | | | |
|---------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2018-09-27 | 2019-09-26 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2018-09-27 | 2019-09-26 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2018-09-27 | 2019-09-26 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2018-04-08 | 2019-04-07 |



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6 Radio Spectrum Matter Test Results

6.1 Conducted disturbance

Test Requirement 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Limit:

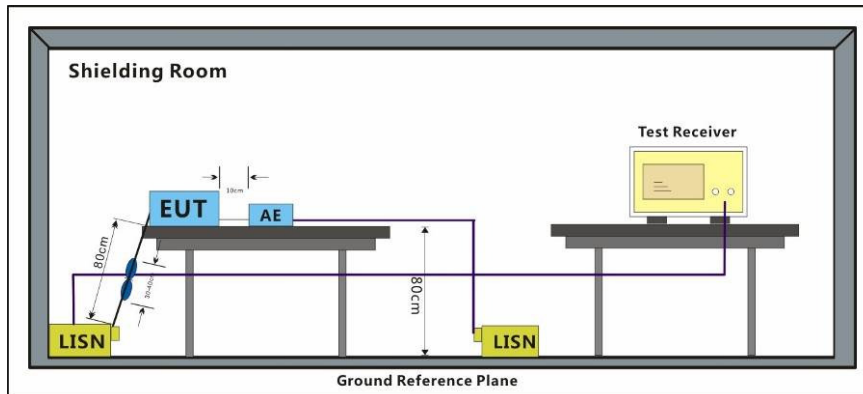
| Frequency of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.4 °C Humidity: 51.3 % RH Atmospheric Pressure: 1020 mbar
 Test mode a:Charge mode_Keep the EUT charging

6.1.2 Test Setup Diagram

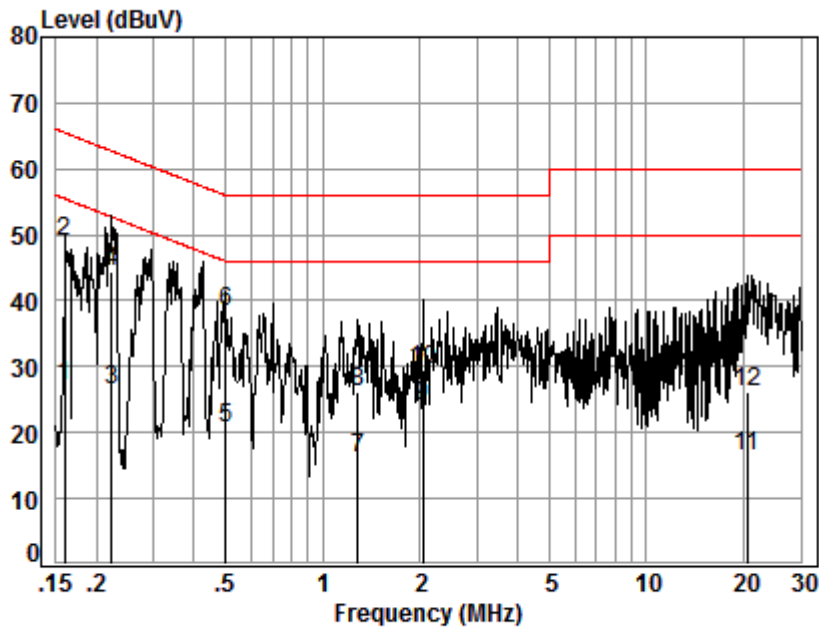


6.1.3 Measurement Procedure and Data



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Mode:a; Line:Live Line



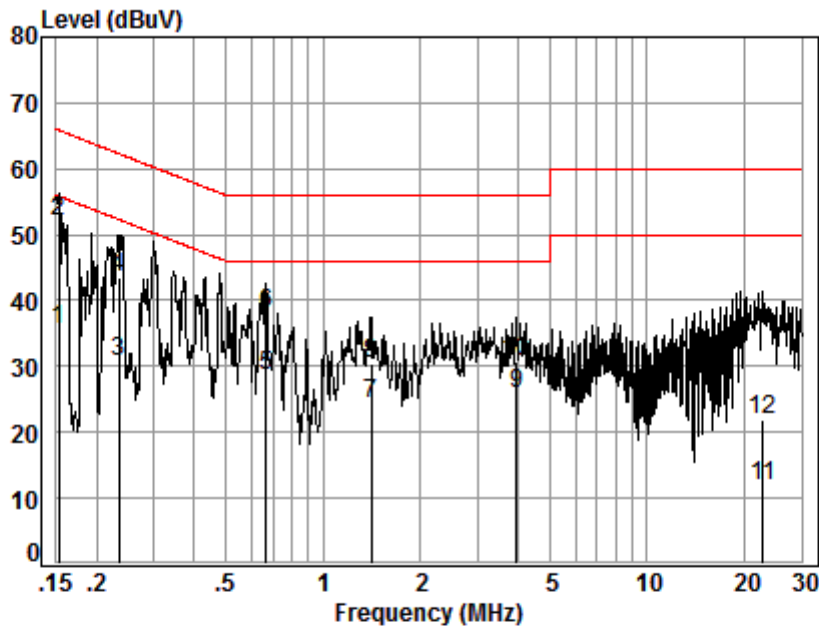
Site : Shielding Room
 Condition: Line
 Job No. : 10349CR
 Test mode: a

| | Freq | Cable Loss | LISN Factor | Read Level | Limit Line | Over Limit | Remark |
|----|-------|------------|-------------|------------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.16 | 0.01 | 9.66 | 17.42 | 55.47 | -28.38 | Average |
| 2 | 0.16 | 0.01 | 9.66 | 39.32 | 65.47 | -16.48 | QP |
| 3 | 0.22 | 0.03 | 9.66 | 16.75 | 52.70 | -26.26 | Average |
| 4 | 0.22 | 0.03 | 9.66 | 34.72 | 62.70 | -18.29 | QP |
| 5 | 0.50 | 0.06 | 9.67 | 10.93 | 46.00 | -25.34 | Average |
| 6 | 0.50 | 0.06 | 9.67 | 28.50 | 56.00 | -17.77 | QP |
| 7 | 1.28 | 0.11 | 9.73 | 6.29 | 46.00 | -29.87 | Average |
| 8 | 1.28 | 0.11 | 9.73 | 16.42 | 56.00 | -29.74 | QP |
| 9 | 2.04 | 0.16 | 9.72 | 14.28 | 46.00 | -21.84 | Average |
| 10 | 2.04 | 0.16 | 9.72 | 19.52 | 56.00 | -26.60 | QP |
| 11 | 20.49 | 0.24 | 10.08 | 6.16 | 50.00 | -33.52 | Average |
| 12 | 20.49 | 0.24 | 10.08 | 15.79 | 60.00 | -33.89 | QP |



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Mode:a; Line:Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 10349CR
 Test mode: a

| | Freq | Cable Loss | LISN Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|----|-------|------------|-------------|------------|-------------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.15 | 0.01 | 9.63 | 25.85 | 35.49 | 55.87 | -20.38 | Average |
| 2 | 0.15 | 0.01 | 9.63 | 42.51 | 52.15 | 65.87 | -13.72 | QP |
| 3 | 0.23 | 0.03 | 9.64 | 20.91 | 30.58 | 52.30 | -21.72 | Average |
| 4 | 0.23 | 0.03 | 9.64 | 33.85 | 43.52 | 62.30 | -18.78 | QP |
| 5 | 0.66 | 0.07 | 9.65 | 18.73 | 28.45 | 46.00 | -17.55 | Average |
| 6 | 0.66 | 0.07 | 9.65 | 28.27 | 37.99 | 56.00 | -18.01 | QP |
| 7 | 1.41 | 0.12 | 9.70 | 14.49 | 24.31 | 46.00 | -21.69 | Average |
| 8 | 1.41 | 0.12 | 9.70 | 20.68 | 30.50 | 56.00 | -25.50 | QP |
| 9 | 3.94 | 0.16 | 9.69 | 16.15 | 26.00 | 46.00 | -20.00 | Average |
| 10 | 3.94 | 0.16 | 9.69 | 20.78 | 30.63 | 56.00 | -25.37 | QP |
| 11 | 22.78 | 0.25 | 10.21 | 1.47 | 11.93 | 50.00 | -38.07 | Average |
| 12 | 22.78 | 0.25 | 10.21 | 11.29 | 21.75 | 60.00 | -38.25 | QP |



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6.2 Radiated emission

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Test Distance: 3m
 Frequency Range: 9kHz-30MHz
 Limit:

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| Equipment | Operating frequency | RF Power generated by equipment (watts) | Field strength limit (uV/m) | Distance (meters) |
|---|--|---|--|---------------------------|
| Any type unless otherwise specified (miscellaneous) | Any ISM frequency | Below 500 500 or more | 25 $25 \times \text{SQRT}(\text{power}/500)$ | 300 ¹ 300 |
| | Any non-ISM frequency | Below 500 500 or more | 15 $15 \times \text{SQRT}(\text{power}/500)$ | 300 ¹ 300 |
| Industrial heaters and RF stabilized arc welders | On or below 5,725 MHz Above 5,725 MHz | Any Any | 10 (²) | 1,600 (²) |
| Medical diathermy | Any ISM frequency Any non-ISM frequency | Any Any | 25 | 300 |
| | | | 15 | 300 |
| Ultrasonic | Below 490 kHz | Below 500 500 or more | 2,400/F(kHz) $2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$ | 300 ³ 300 |
| | 490 to 1,600 kHz Above 1,600 kHz | Any Any | 24,000/F(kHz) 15 | 30 30 |
| Induction cooking ranges | Below 90 kHz | Any | 1,500 | ⁴ 30 |
| | On or above 90 kHz | Any | 300 | ⁴ 30 |

¹Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

²Reduced to the greatest extent possible.

³Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

⁴Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

Remark:

- 1 This product belongs to non-ISM equipment, the field strength limit is 15uV/m at 300 meter distance.
- 2 Limit: $20\log(15\text{uV/m}) + 20\log(300/3) = 23.52 + 40 = 63.52\text{dBuV/m}$ at 3 meters distance



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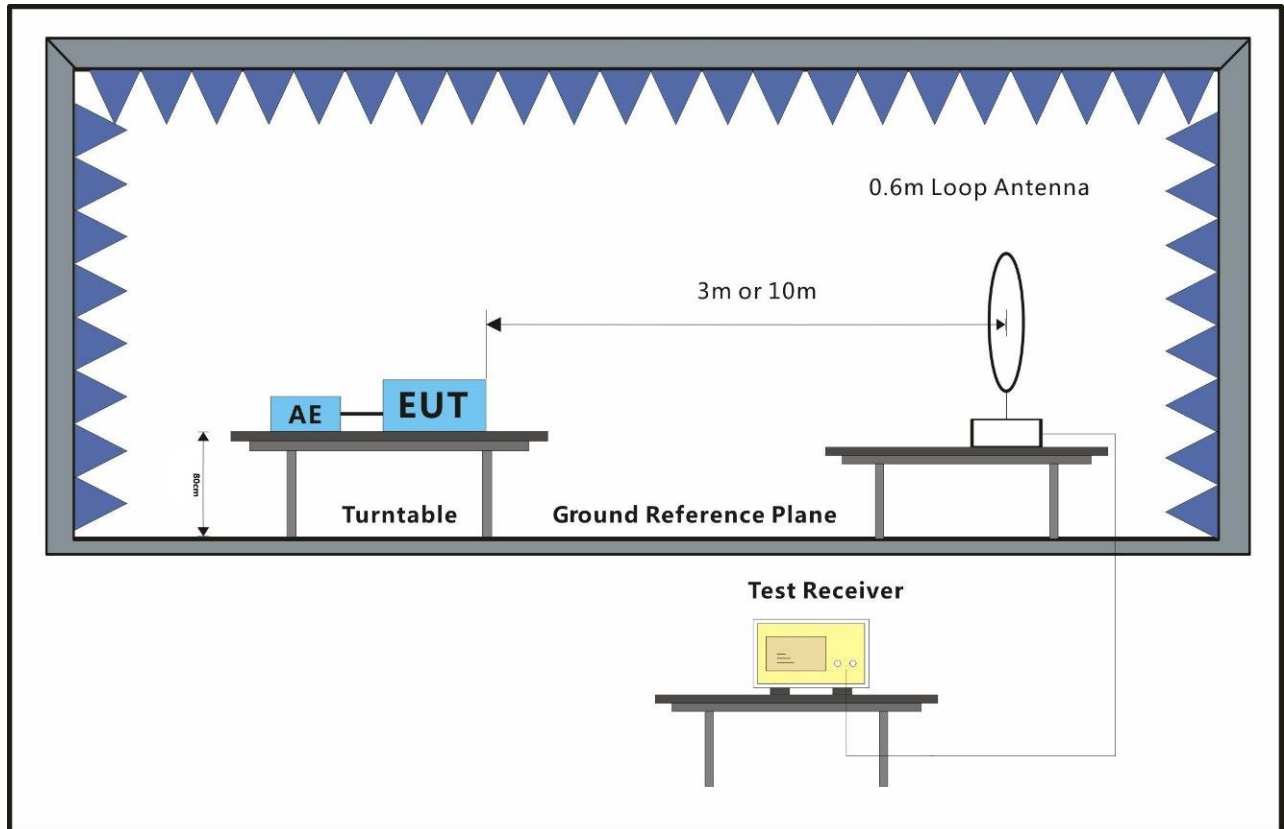
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Test mode a:Charge mode_Keep the EUT charging

6.2.2 Test Setup Diagram

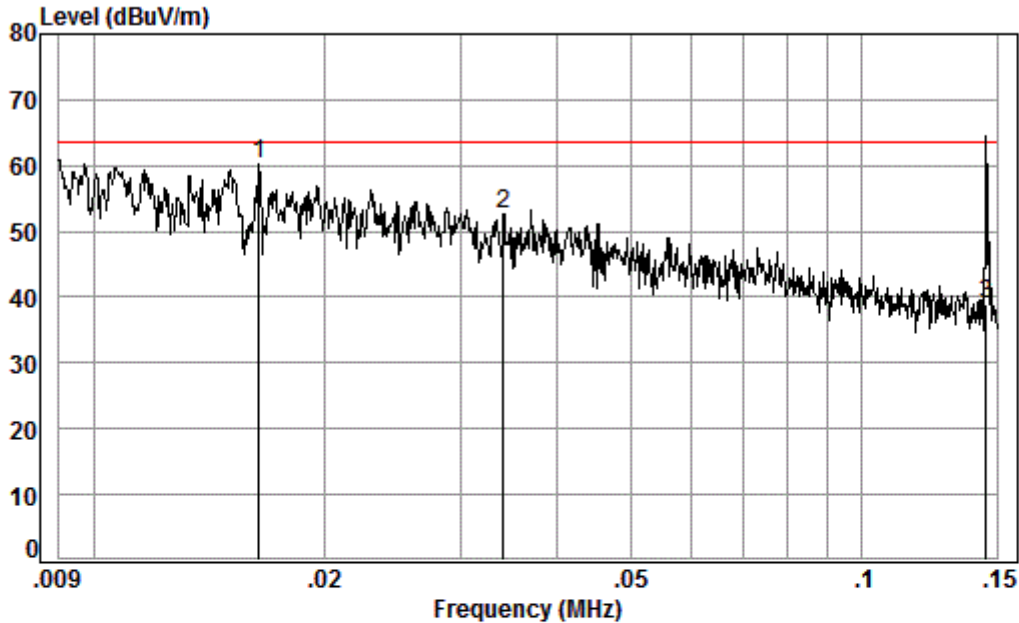


6.2.3 Measurement Procedure and Data



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a 0.009-0.15MHz



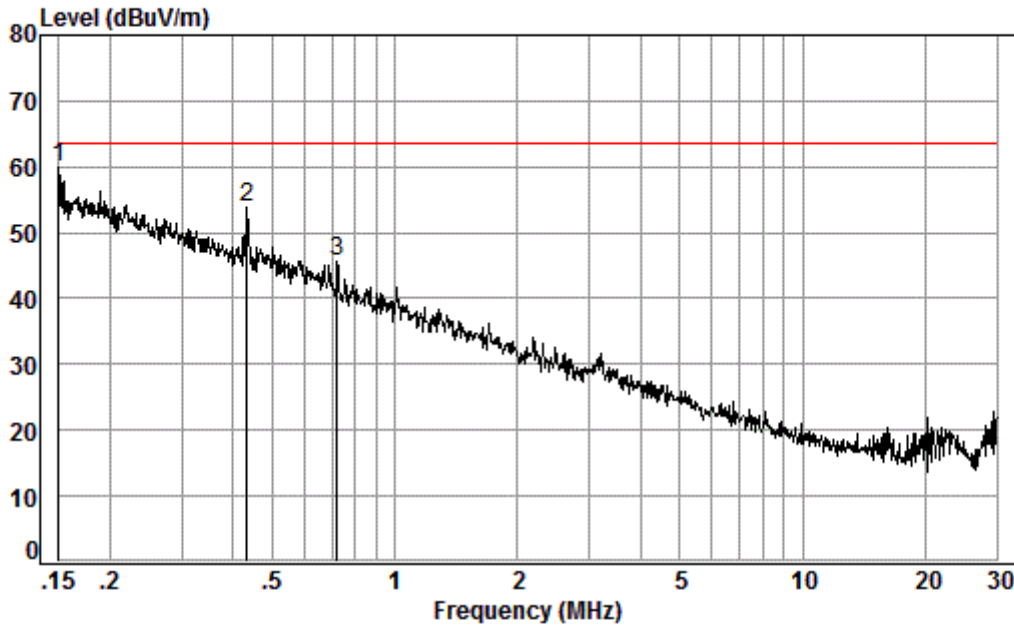
Condition: 3m
 Job No. : 10349CR
 Test Mode: a

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark | |
|---|------|------------|------------|---------------|------------|-------------|------------|------------|--------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 1 | pp | 0.02 | 0.24 | 16.24 | 31.67 | 75.39 | 60.20 | 63.52 | -3.32 | Peak |
| 2 | | 0.03 | 0.16 | 13.48 | 32.08 | 71.14 | 52.70 | 63.52 | -10.82 | Peak |
| 3 | av | 0.15 | 0.06 | 11.72 | 32.67 | 59.81 | 38.92 | 63.52 | -24.60 | Average |



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a 0.15-30MHz



Condition: 3m
 Job No. : 10349CR
 Test Mode: a

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 0.15 | 0.07 | 11.70 | 32.67 | 80.90 | 60.00 | 63.52 | -3.52 | Peak |
| 2 | 0.44 | 0.10 | 11.76 | 32.66 | 74.77 | 53.97 | 63.52 | -9.55 | Peak |
| 3 | 0.72 | 0.17 | 11.97 | 32.65 | 66.20 | 45.69 | 63.52 | -17.83 | Peak |



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7 Photographs

7.1 Test Setup

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos.

- End of the Report -

