



Report No.: SZEM190401317701
Page: 1 of 15

TEST REPORT

Application No.:

SZEM1904013177CR

Applicant:

SHENZHEN YUCHANGTAI ELECTRONIC CO., LTD

Address of Applicant:

401, Building 2000088, Shangwei industry, zhangge guanlan street, longhua new district, shenzhen city, China

Manufacturer:

SHENZHEN YUCHANGTAI ELECTRONIC CO., LTD

Address of Manufacturer:

401, Building 2000088, Shangwei industry, zhangge guanlan street, longhua new district, shenzhen city, China

Factory:

SHENZHEN YUCHANGTAI ELECTRONIC CO., LTD

Address of Factory:

401, Building 2000088, Shangwei industry, zhangge guanlan street, longhua new district, shenzhen city, China

Equipment Under Test (EUT):

EUT Name: Desk Organizer with wireless charging

Model No.: YTC-WI05

Trade mark: CADA

FCC ID: 2ATMX-YTCWI05

Standard(s) : 47 CFR Part 18

Date of Receipt: 2019-04-24

Date of Test: 2019-04-29 to 2019-05-06

Date of Issue: 2019-05-13

Test Result:

Pass*

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

Keny. Xu
EMC Laboratory Manager



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| Revision Record | | | | |
|------------------------|----------------|-------------|-----------------|---------------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2019-05-13 | | Original |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | Damon Su /Project Engineer | |
| | |  | |
| | | Eric Fu /Reviewer | |



2 Test Summary

| Radio Spectrum Matter Part | | | | |
|----------------------------|----------------|----------|-------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted disturbance | 47 CFR Part 18 | FCC MP-5 | Part 18.307 | Pass |
| Radiated emission | 47 CFR Part 18 | FCC MP-5 | Part 18.305 | Pass |

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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|--|
| Power supply: | Input: 5V 1.2A, Output: USB: 5V 1A; WPC: 5W(DC 5V/1A) |
| Cable: | USB Cable(Unshielded, 100cm) |
| Antenna Type: | Loop Antenna |
| Modulation Type: | Load Modulation |
| Operation Frequency: | 108.65kHz to 139.58kHz |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--------------|-----------------|------------|-------------|
| Mobile Phone | SAMSUNG | SM-G9500 | R28J9140LPB |
| USB Adapter | Client supplied | KA1803A-EU | N/A |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|---------------------------|
| 1 | Conduction Emission | ± 3.0dB (150kHz to 30MHz) |
| 2 | Radiated Spurious emission test | ± 4.5dB (below 1GHz) |
| | | ± 4.8dB (above 1GHz) |
| 3 | Temperature test | ± 1°C |
| 4 | Humidity test | ± 3% |
| 5 | Supply voltages | ± 1.5% |
| 6 | Time | ± 3% |

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4.4 Test Location

All tests were performed at:

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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 | 2019-04-01 | 2020-03-31 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2019-04-01 | 2020-03-31 |

| 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 | 2019-04-01 | 2020-03-31 |
| Trilog-Broadband Antenna (30MHz-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2016-06-29 | 2019-06-28 |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2019-04-12 | 2020-04-11 |
| 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 | 2019-04-04 | 2020-04-03 |

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6 Radio Spectrum Matter Test Results

6.1 Conducted disturbance

Test Requirement Part 18.307
Test Method: FCC MP-5
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 |

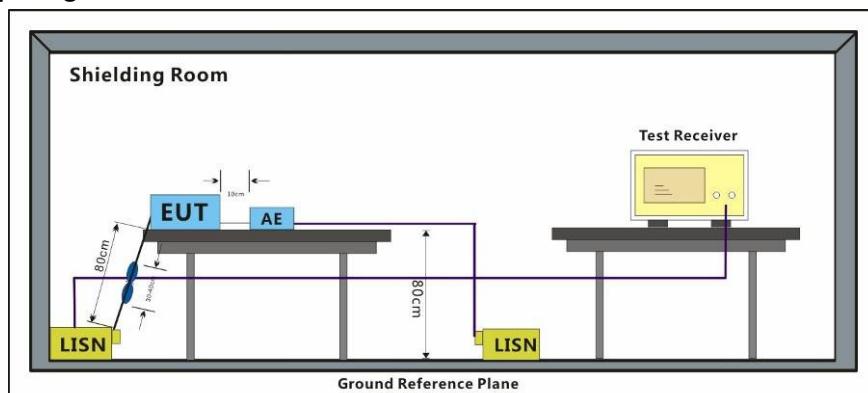
*Decreases with the logarithm of the frequency.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar
Test mode a:Charge mode_Keep the EUT charging

6.1.2 Test Setup Diagram



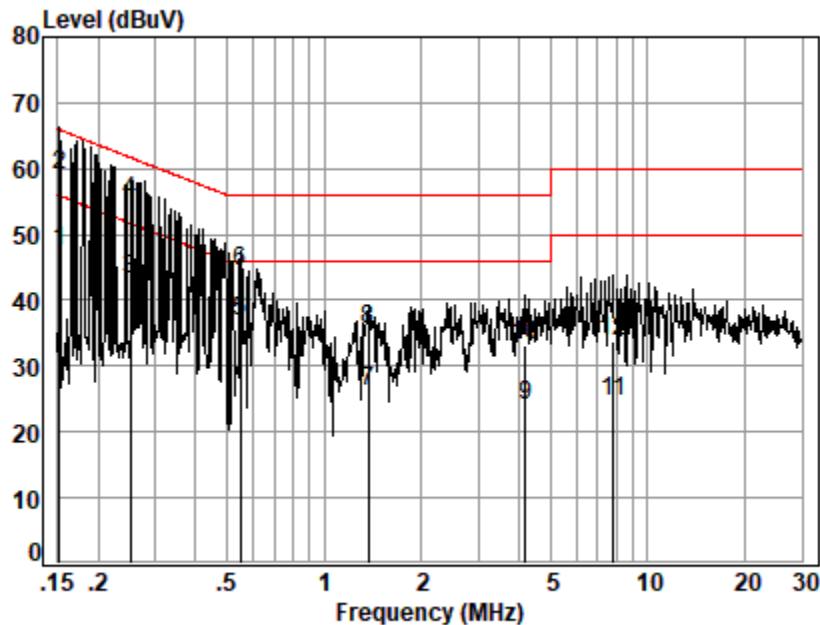
6.1.3 Measurement Procedure and Data



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Mode:a; Line:Live Line



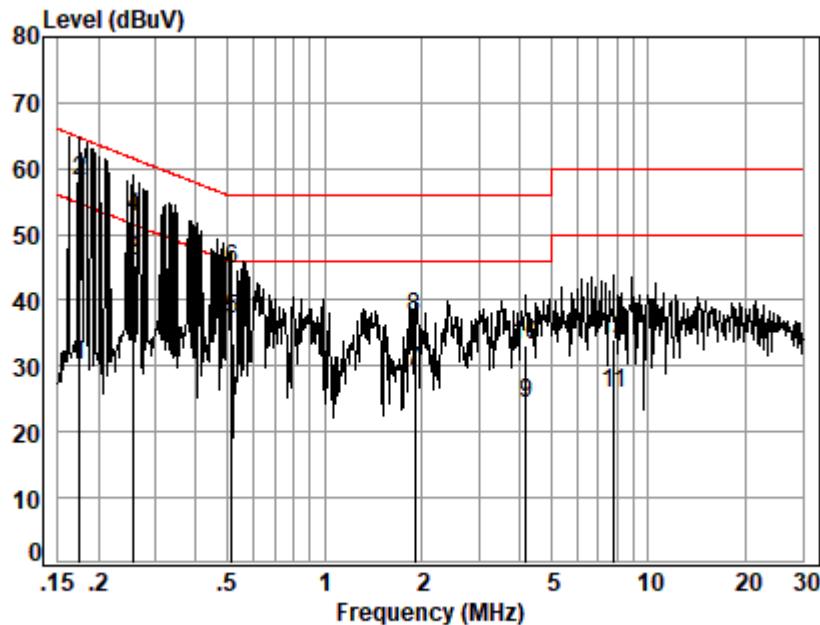
Site : Shielding Room
Condition: Line
Job No. : 13177CR
Test mode: a

| Freq | Cable | LISN | Read | Limit | | Over | Remark |
|------|-------|--------|-------|-------|-------|-------|----------------|
| | Loss | Factor | Level | Level | Line | Limit | |
| | MHz | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.15 | 0.01 | 9.66 | 37.66 | 47.33 | 55.91 | -8.58 Average |
| 2 | 0.15 | 0.01 | 9.66 | 49.26 | 58.93 | 65.91 | -6.98 QP |
| 3 | 0.25 | 0.03 | 9.67 | 33.36 | 43.06 | 51.69 | -8.63 Average |
| 4 | 0.25 | 0.03 | 9.67 | 45.42 | 55.12 | 61.69 | -6.57 QP |
| 5 | 0.55 | 0.06 | 9.67 | 27.13 | 36.86 | 46.00 | -9.14 Average |
| 6 | 0.55 | 0.06 | 9.67 | 34.53 | 44.26 | 56.00 | -11.74 QP |
| 7 | 1.37 | 0.12 | 9.73 | 16.23 | 26.08 | 46.00 | -19.92 Average |
| 8 | 1.37 | 0.12 | 9.73 | 25.87 | 35.72 | 56.00 | -20.28 QP |
| 9 | 4.18 | 0.16 | 9.72 | 14.24 | 24.12 | 46.00 | -21.88 Average |
| 10 | 4.18 | 0.16 | 9.72 | 23.22 | 33.10 | 56.00 | -22.90 QP |
| 11 | 7.81 | 0.17 | 9.80 | 14.70 | 24.67 | 50.00 | -25.33 Average |
| 12 | 7.81 | 0.17 | 9.80 | 23.87 | 33.84 | 60.00 | -26.16 QP |

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Mode:a; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 13177CR
Test mode: a

| Freq | Cable | LISN | Read | Limit | Over | Remark | |
|------|-------|--------|-------|-------|-------|--------|----------------|
| | Loss | Factor | Level | | | | |
| | MHz | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.17 | 0.02 | 9.64 | 20.40 | 30.06 | 54.72 | -24.66 Average |
| 2 | 0.17 | 0.02 | 9.64 | 48.40 | 58.06 | 64.72 | -6.66 QP |
| 3 | 0.26 | 0.03 | 9.64 | 36.16 | 45.83 | 51.56 | -5.73 Average |
| 4 | 0.26 | 0.03 | 9.64 | 42.95 | 52.62 | 61.56 | -8.94 QP |
| 5 | 0.52 | 0.06 | 9.64 | 27.42 | 37.12 | 46.00 | -8.88 Average |
| 6 | 0.52 | 0.06 | 9.64 | 35.06 | 44.76 | 56.00 | -11.24 QP |
| 7 | 1.90 | 0.15 | 9.69 | 19.37 | 29.21 | 46.00 | -16.79 Average |
| 8 | 1.90 | 0.15 | 9.69 | 27.52 | 37.36 | 56.00 | -18.64 QP |
| 9 | 4.18 | 0.16 | 9.69 | 14.45 | 24.30 | 46.00 | -21.70 Average |
| 10 | 4.18 | 0.16 | 9.69 | 23.22 | 33.07 | 56.00 | -22.93 QP |
| 11 | 7.81 | 0.17 | 9.78 | 15.84 | 25.79 | 50.00 | -24.21 Average |
| 12 | 7.81 | 0.17 | 9.78 | 24.23 | 34.18 | 60.00 | -25.82 QP |

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6.2 Radiated emission

Test Requirement Part 18.305
Test Method: FCC MP-5
Measurement Distance: 3m
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 1300 |
| | Any non-ISM frequency | Below 500 500 or more | 15 $15 \times \text{SQRT}(\text{power}/500)$ | 300 1300 |
| 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 15 | 300 300 |
| Ultrasonic | Below 490 kHz | Below 500 500 or more | $2,400/F(\text{kHz})$ $2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$ | 300 300 |
| | 490 to 1,600 kHz Above 1,600 kHz | Any Any | 24,000/F(kHz) 15 | 30 30 |
| Induction cooking ranges | Below 90 kHz On or above 90 kHz | Any Any | 1,500 300 | 430 430 |

¹Field strength may not exceed 10 $\mu\text{V}/\text{m}$ 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 $\mu\text{V}/\text{m}$ 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: $20\log(15\text{uV}/\text{m}) + 20\log(300/3) = 23.52 + 40 = 63.52\text{dBuV}/\text{m}$ at 3 meters distance



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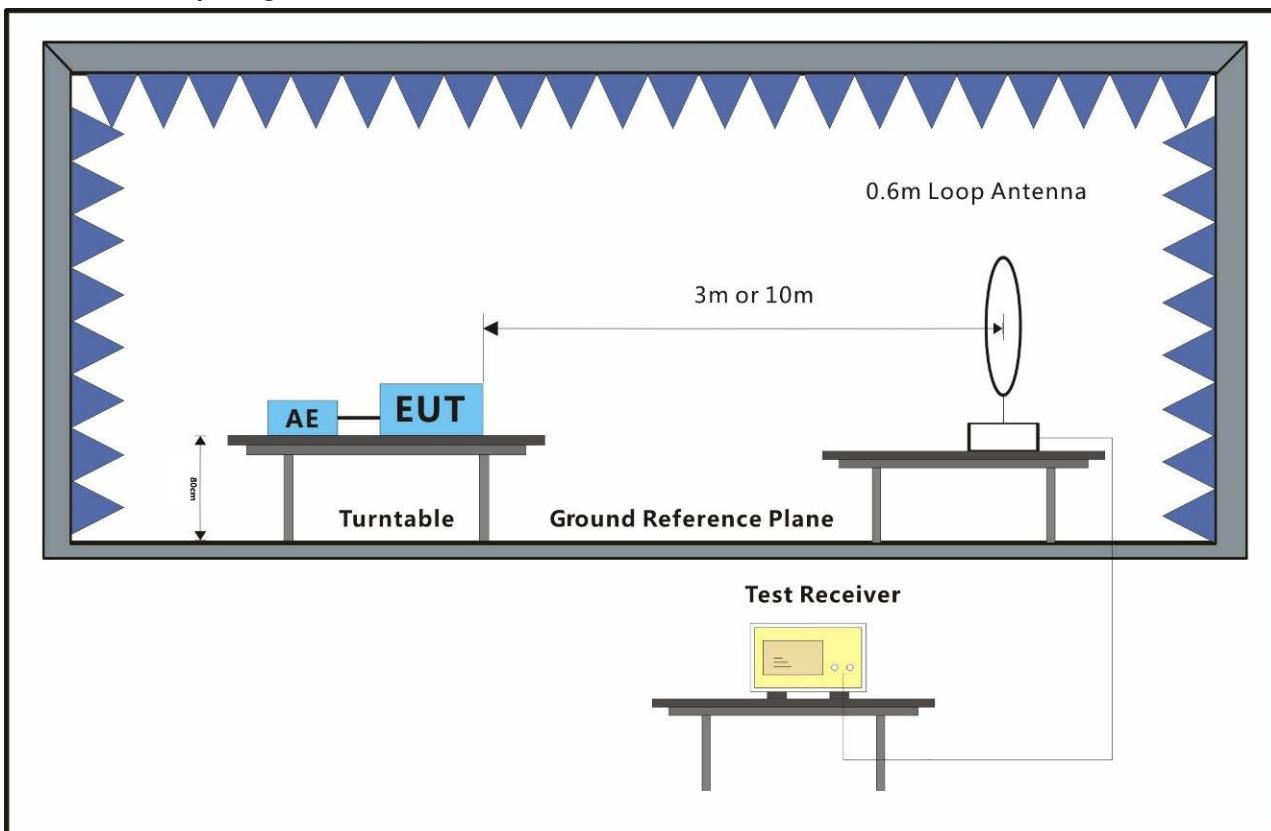
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6.2.1 E.U.T. Operation

Operating Environment:

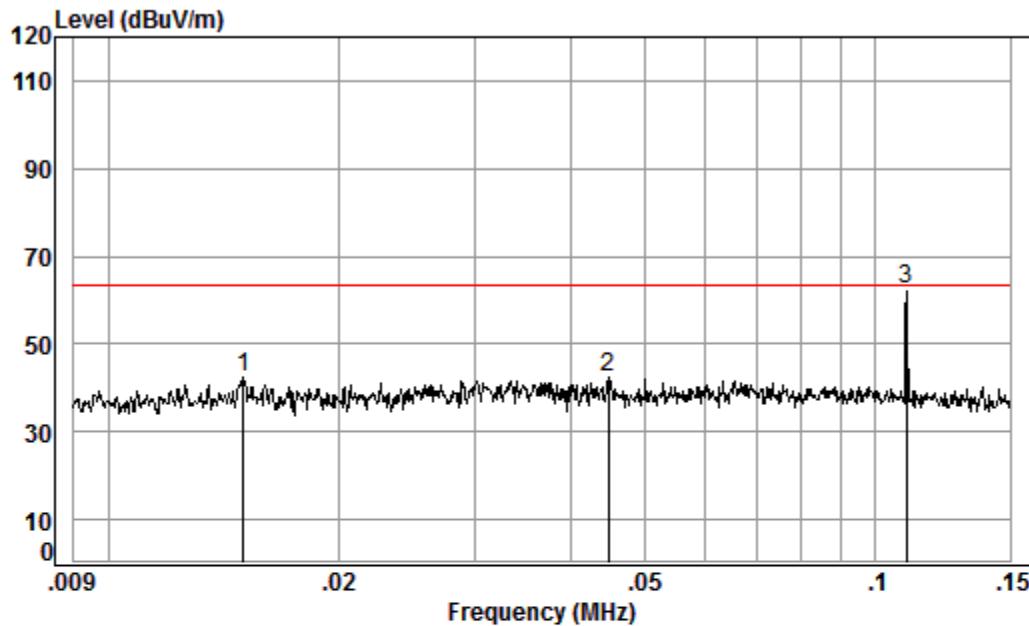
Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1015 mbar
Test mode a:Charge mode_Keep the EUT charging**6.2.2 Test Setup Diagram****6.2.3 Measurement Procedure and Data**SGS-CSTC Standards Technical Services Co., Ltd.
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Mode a:
9kHz-150kHz



Condition: 3m
Job No. : 13177CR
Test Mode: a

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|-------|--------|--------|-------|--------|--------|----------------------|
| | Loss | Factor | Factor | Level | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0.01 | 0.25 | 16.79 | 32.55 | 57.78 | 42.27 | 63.52 -21.25 Average |
| 2 | 0.04 | 0.13 | 12.71 | 32.56 | 62.25 | 42.53 | 63.52 -20.99 Average |
| 3 pp | 0.11 | 0.05 | 11.93 | 32.56 | 83.00 | 62.42 | 63.52 -1.10 Average |



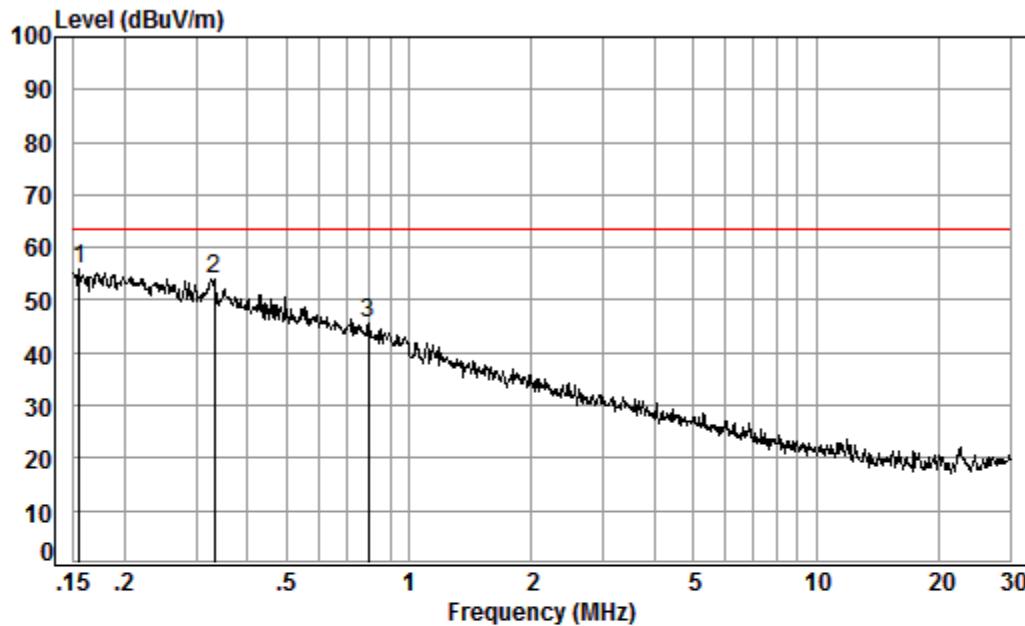
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Mode a:
150kHz-30MHz



Condition: 3m
Job No. : 13177CR
Test Mode: a

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|-------|--------|--------|-------|--------|--------|----------------------|
| | Loss | Factor | Factor | Level | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 pp | 0.15 | 0.07 | 11.72 | 32.56 | 76.54 | 55.77 | 63.52 -7.75 Average |
| 2 | 0.33 | 0.09 | 11.88 | 32.56 | 74.76 | 54.17 | 63.52 -9.35 Average |
| 3 | 0.80 | 0.19 | 12.00 | 32.56 | 65.97 | 45.60 | 63.52 -17.92 Average |



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7 Photographs

7.1 Test Setup

Refer to Setup Photos

7.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -



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