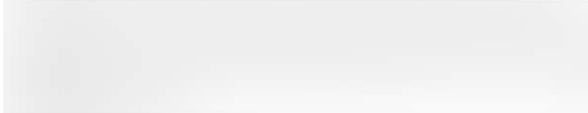



VERIFICATION OF COMPLIANCE

Verification No.: GZEM2501000481LMV
 Applicant: Lava Group S.C. /Reiter Polska Sp. Z o.o
 Address of Applicant: Eugeniusza Romera 4b, 02-784 Warsaw, Poland
 Manufacturer: 
 Address of Manufacturer: 
 Product Name: Flashlight
 Model No.: MT05, MT06, MT07, MT08
 Standard(s): EN IEC 55015: 2019+A11:2020
 EN IEC 61547: 2023
 EN IEC 61000-3-2: 2019+A1:2021+A2:2024
 EN 61000-3-3: 2013+ A1:2019+A2:2021
 Report Number(s): GZEM250100048101

This Verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards under Directive 2014/30/EU. The CE mark can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

COMPLIANCE



Jerry Chan
 Technical Manager
 SGS-CSTC Standards Technical Services Co., Ltd.

2025-02-24

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 Member of the SGS Group (SGS SA)

Client Name: LAVA GROUP S.C. /REITER POLSKA SP. Z O.O.
 Client Address: EUGENIUSZA ROMERA 4B, 02-784 WARSAW, POLAND

Sample Name: Flashlight
 Tested Basic Model No.: MT06
 Tested Extended Model No.: MT03, MT04, MT05, MT07, MT08
 The above sample(s) and information were provided by the client.

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.CANEC25001539001, DATE: Feb 18, 2025.

SGS Job No.: SZP25-002973
 Sample Receiving Date: Jan 20, 2025
 Verification Period: Jan 20, 2025 ~ Feb 18, 2025
 Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.
 Verification Method(s): Please refer to next page(s).
 Verification Result(s): Please refer to next page(s).

Test Result Summary:

| Test Items | Conclusion |
|---|------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass |

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Jenny Liao
 Approved Signatory

Scan to see the report



B00D8528



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Photo of Submitted Sample



MT06



MT03





MT04



MT05





MT07



MT08

Verification Method(s):

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted



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Guangzhou Branch, Technical Laboratory

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samples.

2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.

(1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.

(2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.



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Guangzhou Branch, Guangzhou, China

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Verification Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|------------------------------|---------------------------------|
| SN1 | A1 | CAN25-0015390-0001.C001 | Black rubber cover |
| SN2 | A2 | CAN25-0015390-0001.C002 | Black surfaced metal part |
| SN3 | A3 | CAN25-0015390-0001.C003 | Black rubber part |
| SN4 | A4 | CAN25-0015390-0001.C004 | Black plastic ring |
| SN5 | A5 | CAN25-0015390-0001.C005 | Black plastic ring |
| SN6 | A6 | CAN25-0015390-0001.C006 | Black plastic part |
| SN7 | A7 | CAN25-0015390-0001.C007 | Black plastic part |
| SN8 | A8 | CAN25-0015390-0001.C008 | Black plastic part |
| SN9 | A9 | CAN25-0015390-0001.C009 | Black plastic part |
| SN10 | A10 | CAN25-0015390-0001.C010 | Black surfaced metal spring |
| SN11 | A11 | CAN25-0015390-0001.C011 | Black surfaced metal spring |
| SN12 | A12 | CAN25-0015390-0001.C012.C001 | Silvery metal wire (solder) |
| SN13 | A13 | CAN25-0015390-0001.C013 | Green "PCB" |
| SN14 | A14 | CAN25-0015390-0001.C014 | Black surfaced metal part |
| SN15 | A15 | CAN25-0015390-0001.C015 | Black rubber ring |
| SN16 | A16 | CAN25-0015390-0001.C016 | Black surfaced metal part |
| SN17 | A17 | CAN25-0015390-0001.C017 | Transparent plastic part |
| SN18 | A18 | CAN25-0015390-0001.C018 | Black plastic ring |
| SN19 | A19 | CAN25-0015390-0001.C019 | Black rubber ring |
| SN20 | A20 | CAN25-0015390-0001.C020 | Black rubber ring |
| SN21 | A21 | CAN25-0015390-0001.C021 | Black "PCB" |
| SN22 | A22 | CAN25-0015390-0001.C022 | Yellow body (LED) |
| SN23 | A23# | CAN25-0015390-0001.C023.C001 | Silvery metal wire (solder) |
| SN24 | A24 | CAN25-0015390-0001.C024 | Black plastic (wire insulation) |
| SN25 | A25 | CAN25-0015390-0001.C025 | Red plastic (wire insulation) |
| SN26 | A26 | CAN25-0015390-0001.C026 | Translucent rubber part |
| SN27 | A27 | CAN25-0015390-0001.C027 | Black rubber ring |
| SN28 | A28 | CAN25-0015390-0001.C028 | Green "PCB" |
| SN29 | A29 | CAN25-0015390-0001.C029 | Silvery metal part |
| SN30 | A30# | CAN25-0015390-0001.C030.C001 | Silvery metal wire (solder) |
| SN31 | A31 | CAN25-0015390-0001.C031 | Silvery metal pin |
| SN32 | A32 | CAN25-0015390-0001.C032 | Dark grey plastic part |
| SN33 | A33 | CAN25-0015390-0001.C033 | Black plastic part |
| SN34 | A34 | CAN25-0015390-0001.C034 | Silvery metal pin |
| SN35 | A35# | CAN25-0015390-0001.C035.C001 | Silvery metal wire (solder) |
| SN36 | A36 | CAN25-0015390-0001.C036 | Black body |
| SN37 | A37 | CAN25-0015390-0001.C037 | Green "PCB" |
| SN38 | A38 | CAN25-0015390-0001.C038 | Transparent glass sheet |
| SN39 | A39 | CAN25-0015390-0001.C039 | Translucent rubber ring |
| SN40 | A40 | CAN25-0015390-0001.C040 | White plastic part |
| SN41 | A41 | CAN25-0015390-0001.C041 | Silvery metal part |
| SN42 | A42 | CAN25-0015390-0001.C042 | White "PCB" |
| SN43 | A43# | CAN25-0015390-0001.C043.C001 | Silvery metal wire (solder) |



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| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|----------------------------|
| SN44 | A44 | CAN25-0015390-0001.C044 | Black plastic part |
| SN45 | A45 | CAN25-0015390-0001.C045 | Black surfaced metal screw |
| SN46 | A46 | CAN25-0015390-0001.C046 | Black surfaced metal part |
| SN47 | A47 | CAN25-0015390-0001.C047 | Golden surfaced metal ring |
| SN48 | A48 | CAN25-0015390-0001.C048 | Black rubber ring |
| SN49 | A49 | CAN25-0015390-0001.C049 | Red surfaced metal ring |



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Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

| Test Item(s) | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 |
|--------------|------|------|------|------|------|------|------|------|
| Pb | BL | BL | BL | BL | BL | BL | BL | BL |
| Hg | BL | BL | BL | BL | BL | BL | BL | BL |
| Cd | BL | BL | BL | BL | BL | BL | BL | BL |
| Cr(VI)▼ | BL | BL | BL | BL | BL | BL | BL | BL |
| PBB | BL | --- | BL | BL | BL | ND | ND | ND |
| PBDE | BL | --- | BL | BL | BL | ND | ND | ND |
| DEHP | BL | --- | BL | BL | BL | ND | ND | ND |
| BBP | BL | --- | BL | BL | BL | ND | ND | ND |
| DBP | BL | --- | BL | BL | BL | ND | ND | ND |
| DIBP | BL | --- | BL | BL | BL | ND | ND | ND |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A9 | A10 | A11 | A12 | A13 | A14 | A15 | A16 |
|--------------|------|------|------|------|------|------|------|------|
| Pb | BL | BL | BL | BL | BL | BL | BL | BL |
| Hg | BL | BL | BL | BL | BL | BL | BL | BL |
| Cd | BL | BL | BL | BL | BL | BL | BL | BL |
| Cr(VI)▼ | BL | BL | BL | BL | BL | BL | BL | BL |
| PBB | ND | --- | --- | --- | ND | --- | BL | --- |
| PBDE | ND | --- | --- | --- | ND | --- | BL | --- |
| DEHP | ND | --- | --- | --- | ND | --- | BL | --- |
| BBP | ND | --- | --- | --- | ND | --- | BL | --- |
| DBP | ND | --- | --- | --- | ND | --- | BL | --- |
| DIBP | ND | --- | --- | --- | ND | --- | BL | --- |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A17 | A18 | A19 | A20 | A21 | A22 | A23# | A24 |
|--------------|------|------|------|------|------|------|------|------|
| Pb | BL | BL | BL | BL | BL | BL | BL | BL |
| Hg | BL | BL | BL | BL | BL | BL | BL | BL |
| Cd | BL | BL | BL | BL | BL | BL | BL | BL |
| Cr(VI)▼ | BL | BL | BL | BL | BL | BL | BL | BL |
| PBB | BL | BL | BL | BL | ND | BL | --- | BL |
| PBDE | BL | BL | BL | BL | ND | BL | --- | BL |
| DEHP | BL | BL | BL | BL | ND | BL | --- | BL |
| BBP | BL | BL | BL | BL | ND | BL | --- | BL |
| DBP | BL | BL | BL | BL | ND | BL | --- | BL |
| DIBP | BL | BL | BL | BL | ND | BL | --- | BL |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A25 | A26 | A27 | A28 | A29 | A30# | A31 | A32 |
|--------------|-----|-----|-----|-----|-----|------|-----|-----|
| Pb | BL | BL | BL | BL | BL | BL | BL | BL |
| Hg | BL | BL | BL | BL | BL | BL | BL | BL |
| Cd | BL | BL | BL | BL | BL | BL | BL | BL |
| Cr(VI)▼ | BL | BL | BL | BL | ND | BL | BL | BL |



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| Test Item(s) | A25 | A26 | A27 | A28 | A29 | A30# | A31 | A32 |
|--------------|------|------|------|------|------|------|------|------|
| PBB | BL | BL | BL | ND | --- | --- | --- | BL |
| PBDE | BL | BL | BL | ND | --- | --- | --- | BL |
| DEHP | BL | BL | BL | ND | --- | --- | --- | BL |
| BBP | BL | BL | BL | ND | --- | --- | --- | BL |
| DBP | BL | BL | BL | ND | --- | --- | --- | BL |
| DIBP | BL | BL | BL | ND | --- | --- | --- | BL |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A33 | A34 | A35# | A36 | A37 | A38 | A39 | A40 |
|--------------|------|------|------|------|------|------|------|------|
| Pb | BL | BL | BL | BL | BL | BL | BL | BL |
| Hg | BL | BL | BL | BL | BL | BL | BL | BL |
| Cd | BL | BL | BL | BL | BL | BL | BL | BL |
| Cr(VI)▼ | BL | BL | BL | BL | ND | BL | BL | BL |
| PBB | ND | --- | --- | BL | ND | BL | BL | BL |
| PBDE | ND | --- | --- | BL | ND | BL | BL | BL |
| DEHP | ND | --- | --- | BL | ND | BL | BL | BL |
| BBP | ND | --- | --- | BL | ND | BL | BL | BL |
| DBP | ND | --- | --- | BL | ND | BL | BL | BL |
| DIBP | ND | --- | --- | BL | ND | BL | BL | BL |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A41 | A42 | A43# | A44 | A45 | A46 | A47 | A48 |
|--------------|------|------|------|------|------|------|------|------|
| Pb | BL | BL | BL | BL | BL | BL | BL | BL |
| Hg | BL | BL | BL | BL | BL | BL | BL | BL |
| Cd | BL | BL | BL | BL | BL | BL | BL | BL |
| Cr(VI)▼ | BL | BL | BL | BL | ND | BL | BL | BL |
| PBB | --- | BL | --- | BL | --- | --- | --- | BL |
| PBDE | --- | BL | --- | BL | --- | --- | --- | BL |
| DEHP | --- | BL | --- | BL | --- | --- | --- | BL |
| BBP | --- | BL | --- | BL | --- | --- | --- | BL |
| DBP | --- | BL | --- | BL | --- | --- | --- | BL |
| DIBP | --- | BL | --- | BL | --- | --- | --- | BL |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A49 |
|--------------|-----|
| Pb | BL |
| Hg | BL |
| Cd | BL |
| Cr(VI)▼ | BL |
| PBB | --- |
| PBDE | --- |
| DEHP | --- |
| BBP | --- |
| DBP | --- |
| DIBP | --- |



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Guangzhou Branch Technical Laboratory

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| | |
|--------------|------|
| Test Item(s) | A49 |
| Conclusion | PASS |



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Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Annex A as below table.

| Element | Polymers | Metals | Composite Materials |
|---------|--|--|--|
| Cd | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$ | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$ | $LOD < X < (150+3\sigma) \leq OL$ |
| Pb | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Hg | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Br | $BL \leq (300-3\sigma) < X$ | Not applicable | $BL \leq (250-3\sigma) < X$ |
| Cr | $BL \leq (700-3\sigma) < X$ | $BL \leq (700-3\sigma) < X$ | $BL \leq (500-3\sigma) < X$ |

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL= Over Limit, IN (The symbol X marks the region)=Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.

(d) The EDXRF screening test for elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

| Test Items | CAS No. |
|------------------------------------|----------|
| Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7 |
| Butyl benzyl phthalate (BBP) | 85-68-7 |
| Dibutyl phthalate (DBP) | 84-74-2 |
| Diisobutyl phthalate (DIBP) | 84-69-5 |

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

| Test Items | Pb | Hg | Cd | DEHP | BBP | DBP | DIBP |
|------------|-------|-------|-------|-------|-------|-------|-------|
| Unit | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| MDL | 10 | 10 | 10 | 100 | 100 | 100 | 100 |

The MDL for single compound of PBB and PBDE is 100 mg/kg,
MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.
MDL of Cr(VI) for metal sample is 0.10 µg/cm².

(c) ▼ =Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination



Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

(5) IEC 62321 series is equivalent to EN 62321 series.

(6) #=According to the declaration from applicant, the materials of No.A23, No.A30, No.A35, No.A43 are the same as those in No.A12, and its results for support the results of No.A23, No.A30, No.A35, No.A43. The applicant will take the responsibility of all discrepancy and risk.

(7) According to the declaration from applicant, the materials of other parts in Models "MT03, MT04, MT05, MT07, MT08" are the same as those in Model "MT06", and the results of Model "MT06" for support the results of other parts in Models "MT03, MT04, MT05, MT07, MT08". The applicant will take the responsibility of all discrepancy and risk.

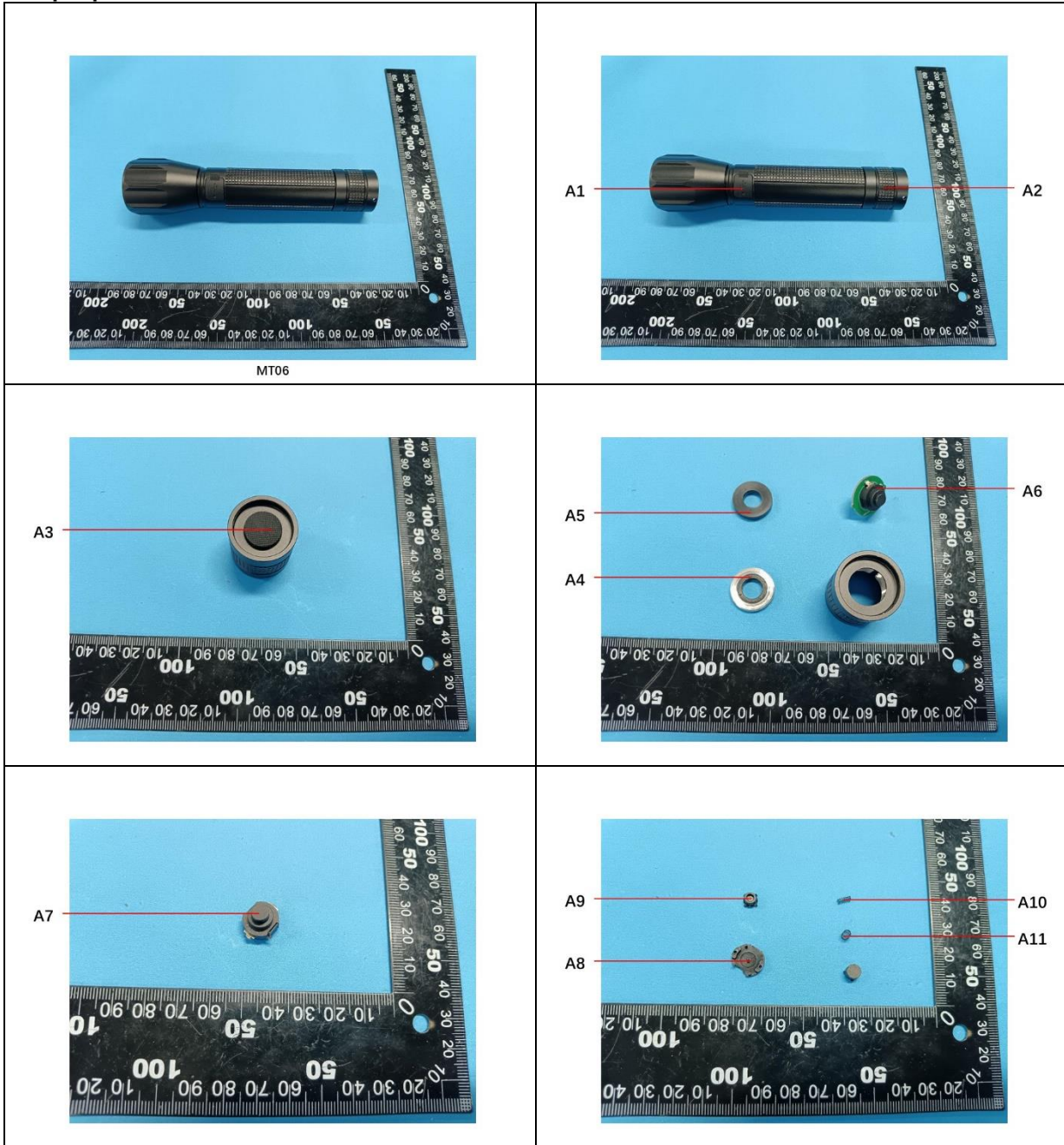
The location of performance of the laboratory activities: A. No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong; B. Room 101, Building 3, No.1501, Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong

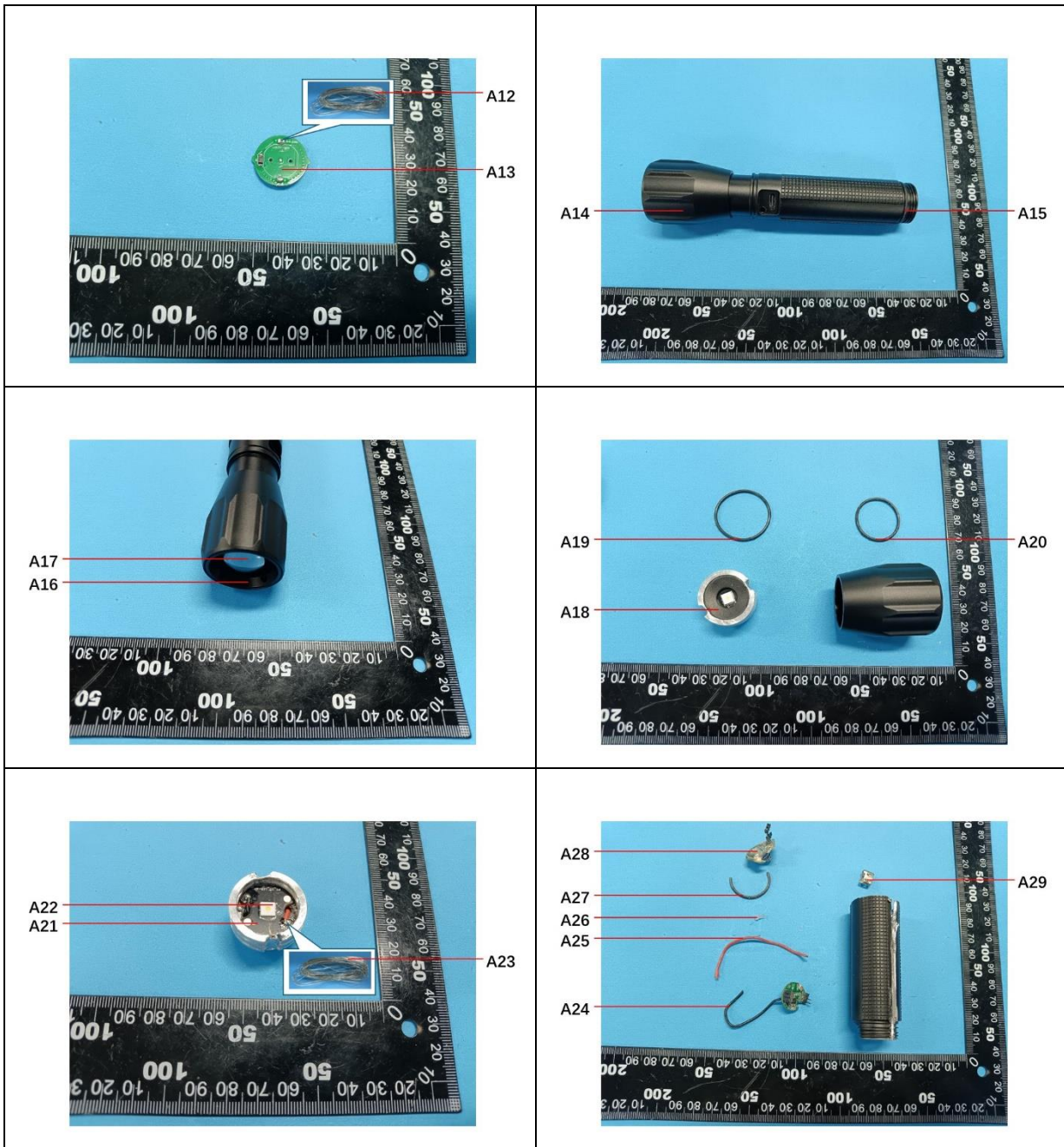
This report updates Client Name.

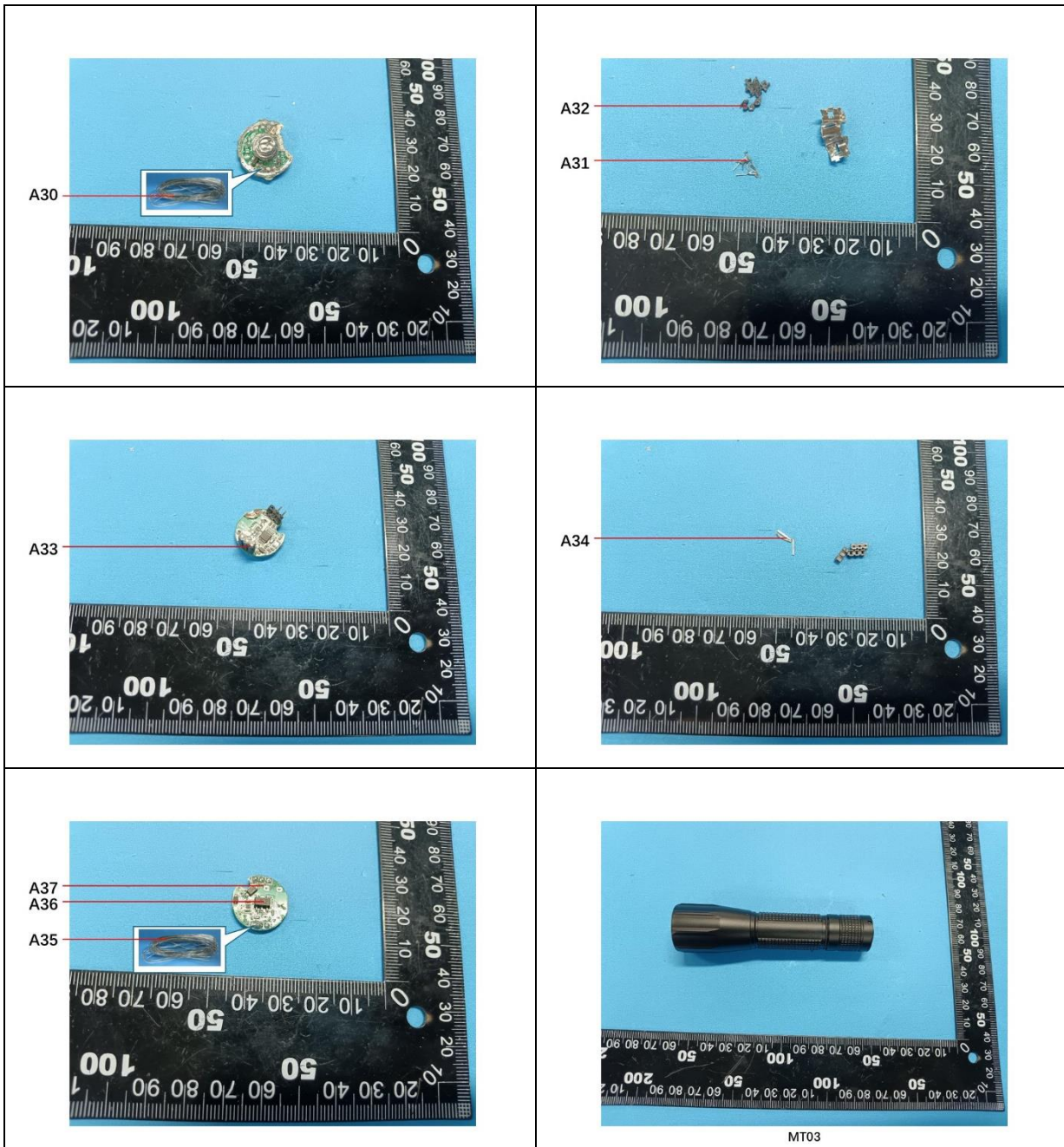
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



Sample photos:







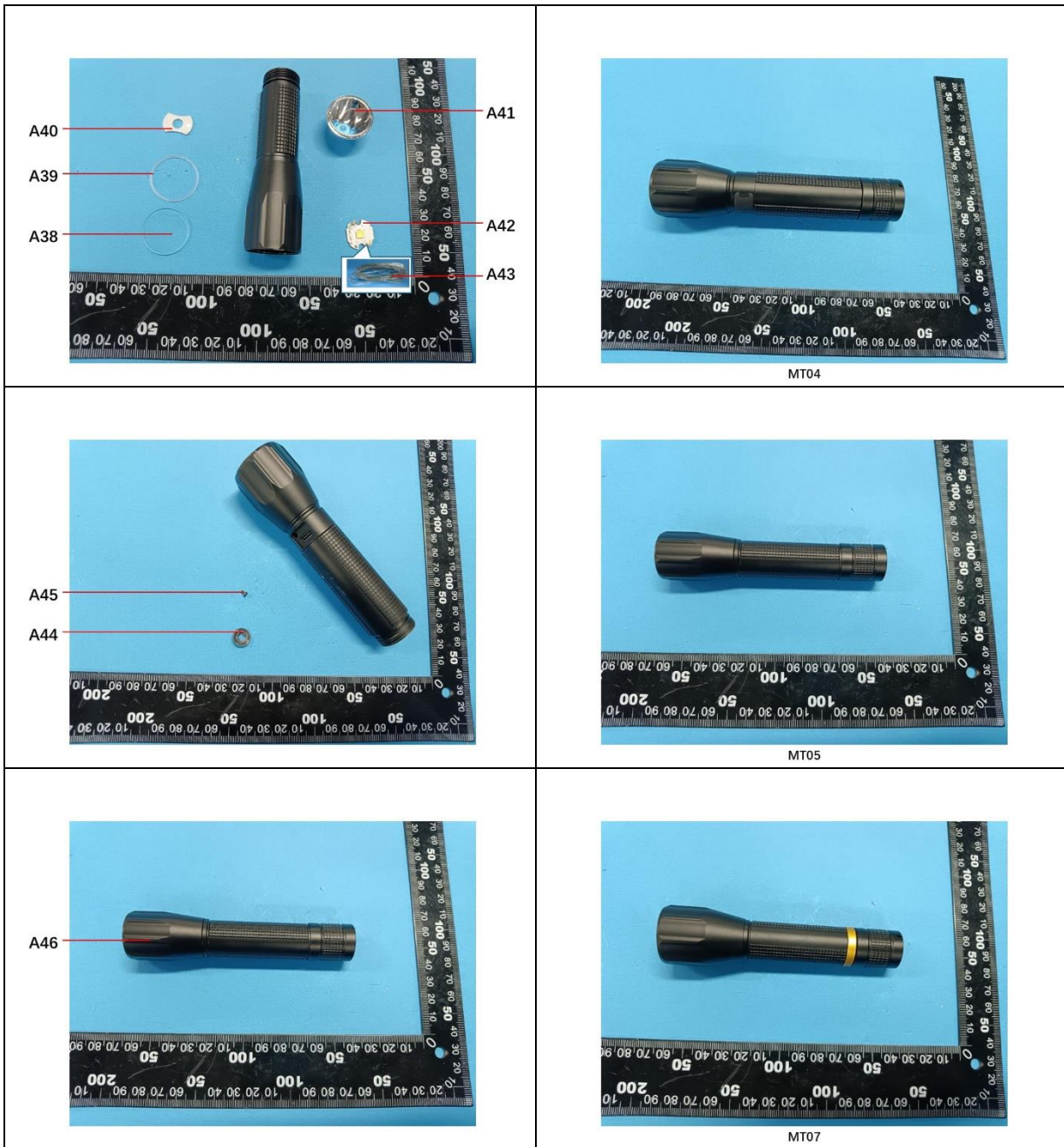
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Technical Services Laboratory

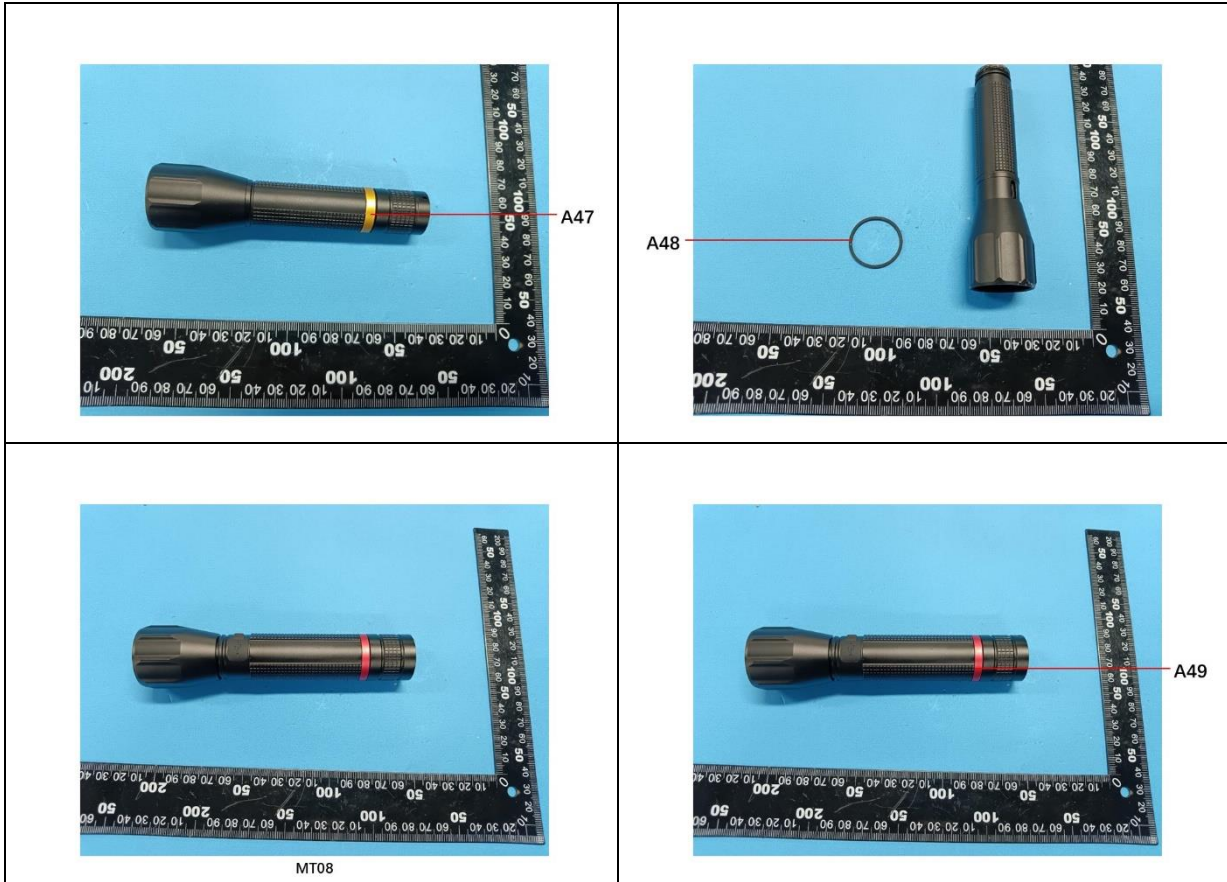
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t (86-20) 82155555 sgs.china@sgs.com





SGS authenticate the photo on original report only
 *** End of Report ***



SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch, Technical Services CA, Guangzhou, China

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 t (86-20) 82155555 sgs.china@sgs.com

TEST REPORT

Application No.: GZEM2501000481LM
Applicant: Lava Group S.C. /Reiter Polska Sp. Z o.o
Address of Applicant: Eugeniusza Romera 4b, 02-784 Warsaw, Poland
Manufacturer:
Address of Manufacturer:

Product Name: Flashlight
Model No.: MT05, MT06, MT07, MT08 ♣
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Standard(s) : EN IEC 55015: 2019+A11:2020
EN IEC 61547: 2023
EN IEC 61000-3-2: 2019+A1:2021+A2:2024
EN 61000-3-3: 2013+ A1:2019+A2:2021
Date of Receipt: 2025-01-14
Date of Test: 2025-01-15 to 2025-01-21
Date of Issue: 2025-02-24

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

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




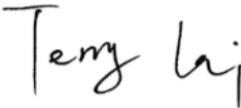
Jerry Chan
Manager



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| Revision Record | | | |
|-----------------|------------------|------------|----------|
| Version | Report No. | Date | Remark |
| 01 | GZEM250100048101 | 2025-02-24 | Original |
| | | | |
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| | | | |
|---------------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | <hr/> Damon Guan/Project Engineer | |
| | |  | |
| | | <hr/> Terry Lai/Reviewer | |



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2 Test Summary

| Emission Part | | | | |
|---|---|---|-------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at Mains Terminals (9kHz-30MHz) | EN IEC 55015: 2019+A11:2020 | CISPR 16-2-1: 2014+A1:2017 | Table 1 | Pass |
| Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop | | CISPR 16-2-3: 2016 | Table 8 | Pass |
| Radiated Emissions (30MHz-1GHz) | | CISPR 16-2-3: 2016 | Table 10 | Pass |
| Harmonic Current Emission | EN IEC 61000-3-2: 2019+A1:2021 +A2:2024 | EN IEC 61000-3-2: 2019+A1:2021 +A2:2024 | Class C | Pass |
| Voltage Fluctuations and Flicker | EN 61000-3-3: 2013 + A1:2019+A2:2021 | EN 61000-3-3: 2013 + A1:2019+A2:2021 | Clause 5 | Pass |

| Immunity Part | | | | |
|--|--------------------|---------------------------|---|--------|
| Item | Standard | Method | Requirement | Result |
| Electrostatic Discharge | EN IEC 61547: 2023 | EN 61000-4-2:2009 | ±4kV Contact Discharge, ±8kV Air Discharge | Pass |
| Radiated Immunity (80MHz-1GHz) | | EN IEC 61000-4-3:2020 | 3V/m, 80%, 1kHz Amp. Mod, 1% increment | Pass |
| Electrical Fast Transients Burst at AC Mains Power Port | | EN 61000-4-4:2012 | 1kV, 5/50ns Tr/Td, 5kHz Repetition Frequency | Pass |
| Surge at Power Port | | EN 61000-4-5:2014+A1:2017 | 1.2/50µs Tr/Td, ±1.0kV Line to Line | Pass |
| Conducted Immunity at AC Mains Power Port (150kHz-80MHz) | | EN 61000-4-6:2014 | 3Vrms (emf), 80%, 1kHz Amp. Mod. | Pass |
| Voltage Dips and Interruptions | | EN IEC 61000-4-11:2020 | 0 % UT for 0.5cycle, 70 % UT for 10cycles, UT is Supply Voltage | Pass |

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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✦Declaration of EUT Family Grouping:

Model No.: MT05, MT06, MT07, MT08

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, only different on the size and outer appearance.

Therefore, only one model MT06 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V for charging.
DC 3.7V 1800mAh for internal rechargeable battery.
Test voltage: AC 230V & DC 3.7V

Cable(s): About 0.6m unscreened USB charging cable supplied by SGS.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---------------|--------------|---|----------------|
| AC/DC Adapter | HUAWEI | Model: HW-110600C02; Input: AC 100-240V, 1.8A Max. 50/60Hz; Output: DC 5V/2A, 10V/4A, 11V/6A Max. | JL28L4NBM03275 |

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| Conducted Emissions at Mains Terminals (9kHz-30MHz) | 3.30dB (9kHz to 150kHz); 3.22dB (150kHz to 30MHz) |
| Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop | 3.08dB (9kHz to 150kHz); 3.19dB(150kHz to 30MHz): 2m loop |
| Radiated Emissions (30MHz-1GHz) | 5.14dB (30MHz-1GHz):3m; 4.90dB (30MHz-1GHz):10m |

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

Immunity decision rule:

- Pass means the observation meets the Performance Criterion requirement.
- Fail means the observation doesn't meet the Performance Criterion requirement.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 EMS Monitor

Visual: LED lighting of the EUT.



5 Equipment List

| Conducted Emissions at Mains Terminals (9kHz-30MHz) | | | | | |
|---|-------------------|----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Coaxial Cable | HangTianXing | 2m | EMC0107 | 2023-08-24 | 2025-08-23 |
| Shielding Room | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306 | 2022-10-16 | 2025-10-15 |
| Two-Line V-Network-GZ | Rohde & Schwarz | ENV216 | EMC2135 | 2024-09-02 | 2025-09-01 |
| EMI Test Receiver (9kHz-3.6GHz) | Rohde & Schwarz | ESR3 | EMC2221 | 2024-12-04 | 2025-12-03 |
| Test Software E3r | Audix | Ver.6.191211 | GZE100-77 | N/A | N/A |
| Conical Metal Housing | SGS-EMC | N/A | EMC0167 | 2024-04-18 | 2026-04-17 |

| Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop | | | | | |
|---|-----------------|--------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Coaxial Cable (RE 2m Loop) | INFINITE | CC223N-10 | EMC0703 | 2023-06-25 | 2025-06-24 |
| 2m Large Loop Antenna System (ZN3040) | ZHINAN | ZN3040 | EMC2187 | 2024-03-22 | 2026-03-21 |
| EMI Test Receiver(1Hz-8GHz) | Rohde & Schwarz | ESW8 | EMC2229 | 2024-12-03 | 2025-12-02 |
| Test Software E3 | Audix | Ver.6.191211 | GZE100-81 | N/A | N/A |

| Radiated Emissions (30MHz-1GHz) | | | | | |
|---------------------------------------|-----------------------------|---------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 966 Anechoic Chamber | Shenzhen C.R.T | CRTSGSSAC966 | EMC2230 | 2022-04-12 | 2025-04-11 |
| EMI Test Receiver(1Hz-8GHz) | Rohde & Schwarz | ESW8 | EMC2229 | 2024-12-03 | 2025-12-02 |
| Amplifier(9k-1000MHz) | SONOMA | 310 | EMC2237 | 2024-12-03 | 2025-12-02 |
| Trilog Broadband Antenna (25MHz-2GHz) | Schwarzbeck Mess-Elektronik | VULB 9168 | EMC2238 | 2022-04-20 | 2025-04-19 |
| Coaxial Cable | Mirco-COAX UTIFLEX ve | LA2-C125-8000 | EMC2239 | 2024-12-04 | 2026-12-03 |
| Test Software E3 | Audix | Ver.6.191211 | GZE100-81 | N/A | N/A |
| Coupling Decoupling Network M2 | SCHWARZBECK | CDNE-M2 | EMC2175 | 2024-12-04 | 2025-12-03 |
| Coupling Decoupling Network M3 | SCHWARZBECK | CDNE-M3 | EMC2176 | 2024-12-04 | 2025-12-03 |



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| Voltage Fluctuations and Flicker | | | | | |
|--|--------------|---------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Digital power analyzer for harmonics & flicker testing | EMTEST | DPA 500N | EMC2235 | 2024-12-04 | 2025-12-03 |
| Programmable multifunctional ac/dc power source | EMTEST | NETWAVE 7-400 | EMC2234 | 2024-12-04 | 2025-12-03 |
| NET.Control | EMTEST | Ver 3.2.3 | GZE100-80 | N/A | N/A |

| Electrostatic Discharge | | | | | |
|-------------------------|--|-----------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Temperature & Humidity | Shanghai Meteorological Instrument Factory Co., Ltd. | ZJ1-2B | EMC0078 | 2024-06-12 | 2025-06-11 |
| ESD Ground Plane | SGS-EMC | 3m x 3m | EMC0804 | N/A | N/A |
| Aneroid Barometer | Shanghai Meteorological Instrument Factory Co., Ltd. | YM3 | EMC2181 | 2024-10-31 | 2025-10-30 |
| ESD Simulator-E | EMTEST | NX30 | EMC2186 | 2024-12-30 | 2025-12-29 |



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| Radiated Immunity (80MHz-1GHz) | | | | | |
|---------------------------------------|------------------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 743 Compact 3m Semi-Anechoic Chamber | ChangZhou ZhongYu | N/A | EMC0525 | 2022-10-16 | 2025-10-15 |
| Oscilloscope | Tektronix | TDS3052C | EMC2055 | 2024-10-14 | 2025-10-13 |
| Laser Probe Interface | RF Microwave Instrumentation | FI7000 | EMC2089 | N/A | N/A |
| Open Switch And Control Unit | Rohde & Schwarz | OSP130 | EMC2090 | N/A | N/A |
| Broadband Amplifier (80MHz~1GHz/250W) | Rohde & Schwarz | BBA150 | EMC2091 | 2024-10-14 | 2025-10-13 |
| Signal Generator (9kHz-6GHz) | Rohde & Schwarz | SMB100A | EMC2093 | 2024-10-14 | 2025-10-13 |
| Laser Probe | RF Microwave Instrumentation | FL7006 | EMC2094 | 2024-04-23 | 2025-04-22 |
| NRP-Z91 Power Sensor (9kHz-6GHz) | Rohde & Schwarz | NPR-Z91 | EMC2095 | 2024-10-14 | 2025-10-13 |
| NRP-Z91 Power Sensor (9kHz-6GHz) | Rohde & Schwarz | NPR-Z91 | EMC2096 | 2024-10-14 | 2025-10-13 |
| High-Gain Log-preiodic Antenna | Rohde & Schwarz | HL046E | EMC2097 | 2022-02-14 | 2025-02-13 |
| RI Cable | Rohde & Schwarz | 7m | EMC2098 | 2024-05-16 | 2025-05-15 |
| Test Software EMC32 | Rohde & Schwarz | Ver. 10.60.10 | GZE100-63 | N/A | N/A |

| Electrical Fast Transients Burst at AC Mains Power Port | | | | | |
|--|---------------------|-------------------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Oscilloscope | Tektronix | TDS3052C | EMC2055 | 2024-10-14 | 2025-10-13 |
| EMC Immunity Test System | TESEQ AG | NSG 3060&CDN3061&INA 6502 CIB | EMC2072 | 2024-12-03 | 2025-12-02 |
| Test Software WIN 3000 | TESEQ AG | Ver 1.3.2 | GZE100-68 | N/A | N/A |

| Surge at Power Port | | | | | |
|----------------------------|---------------------|-------------------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Oscilloscope | Tektronix | TDS3052C | EMC2055 | 2024-10-14 | 2025-10-13 |
| EMC Immunity Test System | TESEQ AG | NSG 3060&CDN3061&INA 6502 CIB | EMC2072 | 2024-12-03 | 2025-12-02 |
| Test Software WIN 3000 | TESEQ AG | Ver 1.3.2 | GZE100-68 | N/A | N/A |



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| Conducted Immunity at AC Mains Power Port (150kHz-80MHz) | | | | | |
|--|-------------------------|-----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Dual Directional coupler | Werlatone Inc. | C1795 | EMC1105 | 2024-12-04 | 2025-12-03 |
| CDN M2 | Schaffner Chase | CDN-M2-16 | EMC1107 | 2024-10-14 | 2026-10-13 |
| CDN M2/M3 | Elektronik-Feinmechanik | L-801:M2/M3 | EMC2048 | 2024-12-04 | 2025-12-03 |
| Test System for Conducted and Radiated Immunity | TESEQ AG | NSG 4070B-80 | EMC2115 | 2024-10-14 | 2025-10-13 |
| Test Software NSG4070_Ctrl1 | TESEQ AG | Ver.1.3.0.1 | GZE100-72 | N/A | N/A |
| Oscilloscope | Tektronix | TDS3052C | EMC2055 | 2024-10-14 | 2025-10-13 |
| 6dB Attenuator | Shanghai Huaxiang | WDT5150-6-2.5-B | EMC2116 | 2024-12-04 | 2026-12-03 |

| Voltage Dips and Interruptions | | | | | |
|--------------------------------|--------------|-------------------------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Oscilloscope | Tektronix | TDS3052C | EMC2055 | 2024-10-14 | 2025-10-13 |
| EMC Immunity Test System | TESEQ AG | NSG 3060&CDN3061&INA 6502 CIB | EMC2072 | 2024-12-03 | 2025-12-02 |
| Test Software WIN 3000 | TESEQ AG | Ver 1.3.2 | GZE100-68 | N/A | N/A |

| General used equipment | | | | | |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DMM | Fluke | 73 | EMC0006 | 2024-06-13 | 2025-06-12 |
| DMM | Fluke | 73 | EMC0007 | 2024-06-13 | 2025-06-12 |



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (9kHz-30MHz)

| | |
|--------------------|--|
| Test Requirement: | EN IEC 55015: 2019+A11:2020 |
| Test Method: | CISPR 16-2-1: 2014+A1:2017 |
| Limit: | |
| 0.009MHz – 0.05MHz | 110dB(μV) quasi-peak |
| 0.05MHz – 0.15MHz | 90dB(μV)-80dB(μV) quasi-peak |
| 0.15MHz – 0.5MHz | 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average |
| 0.5MHz – 5MHz | 56dB(μV) quasi-peak, 46dB(μV) average |
| 5MHz – 30MHz | 60dB(μV) quasi-peak, 50dB(μV) average |
| Detector: | Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

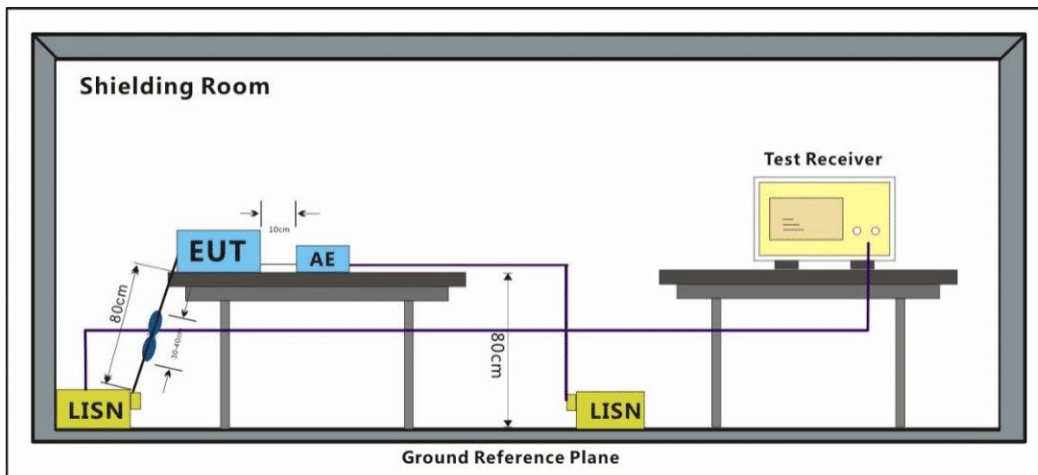
6.1.1 E.U.T. Operation

| | | | |
|------------------------|---------|-----------------------|-----------|
| Operating Environment: | | | |
| Temperature: | 22.4 °C | Humidity: | 56.3 % RH |
| | | Atmospheric Pressure: | 1020 mbar |

6.1.2 Test Mode Description

| Pre-scan / Mode | Description |
|-----------------|--------------------------------|
| Final test Code | |
| Final test 00 | Test the EUT in charging mode. |

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

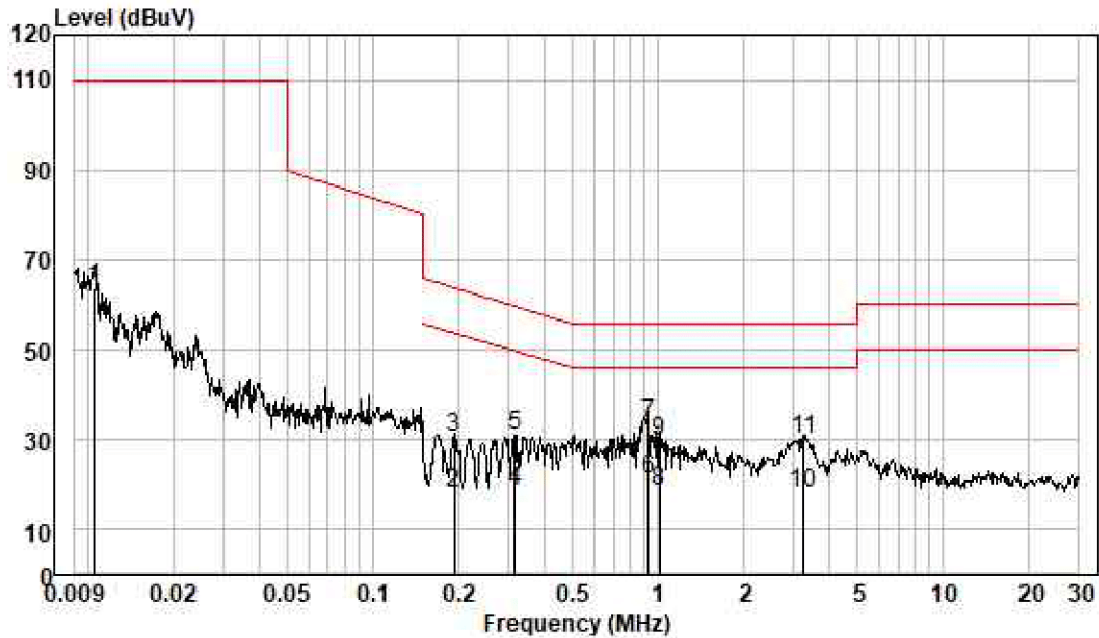
Remark: Level= Read Level+ Cable Loss+ LISN Factor



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Test Mode: 00; Line: Live line



Pol :LINE
 Mode :
 Model :
 Power :

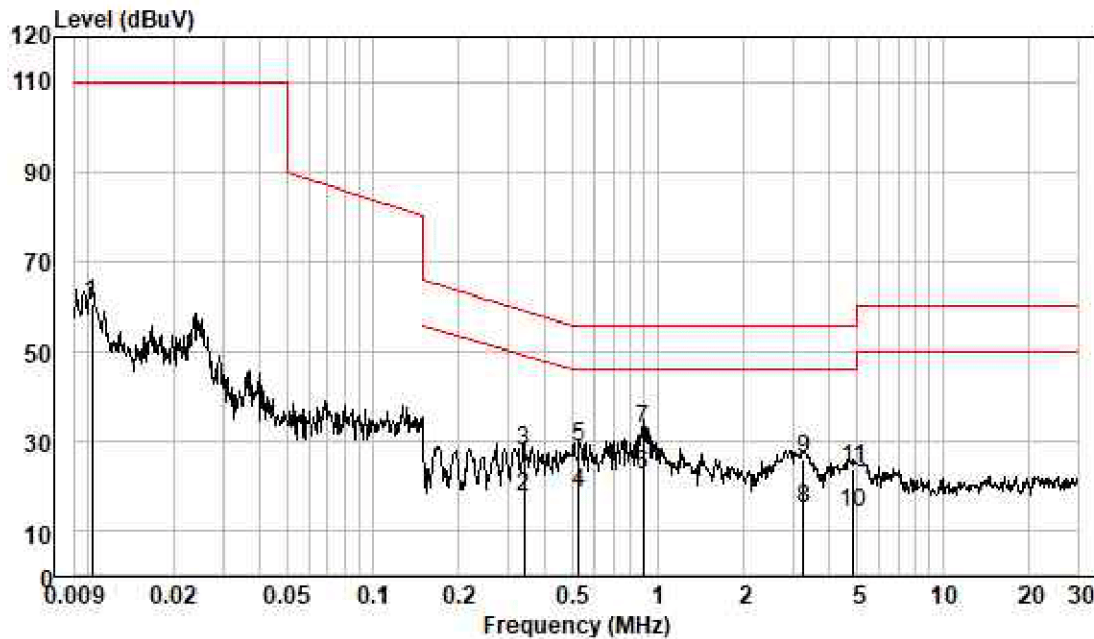
| | Frequec MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|----|----------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 1 | 0.011 | 53.65 | 0.02 | 10.05 | 63.72 | 110.00 | -46.28 | QP |
| 2 | 0.193 | 8.36 | 0.04 | 9.55 | 17.95 | 53.89 | -35.94 | Average |
| 3 | 0.193 | 21.17 | 0.04 | 9.55 | 30.76 | 63.89 | -33.13 | QP |
| 4 | 0.317 | 9.08 | 0.04 | 9.56 | 18.68 | 49.80 | -31.12 | Average |
| 5 | 0.317 | 21.31 | 0.04 | 9.56 | 30.91 | 59.80 | -28.89 | QP |
| 6 | 0.928 | 11.59 | 0.07 | 9.59 | 21.25 | 46.00 | -24.75 | Average |
| 7 | 0.928 | 23.79 | 0.07 | 9.59 | 33.45 | 56.00 | -22.55 | QP |
| 8 | 1.021 | 8.83 | 0.07 | 9.54 | 18.44 | 46.00 | -27.56 | Average |
| 9 | 1.021 | 20.18 | 0.07 | 9.54 | 29.79 | 56.00 | -26.21 | QP |
| 10 | 3.276 | 8.58 | 0.16 | 9.58 | 18.32 | 46.00 | -27.68 | Average |
| 11 | 3.276 | 20.18 | 0.16 | 9.58 | 29.92 | 56.00 | -26.08 | QP |



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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL
 Mode :
 Model :
 Power :

| | Frequec MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|----|----------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 1 | 0.010 | 50.51 | 0.02 | 10.09 | 60.62 | 110.00 | -49.38 | QP |
| 2 | 0.339 | 8.27 | 0.05 | 9.52 | 17.84 | 49.22 | -31.38 | Average |
| 3 | 0.339 | 18.47 | 0.05 | 9.52 | 28.04 | 59.22 | -31.18 | QP |
| 4 | 0.529 | 9.15 | 0.05 | 9.58 | 18.78 | 46.00 | -27.22 | Average |
| 5 | 0.529 | 19.13 | 0.05 | 9.58 | 28.76 | 56.00 | -27.24 | QP |
| 6 | 0.894 | 12.80 | 0.07 | 9.54 | 22.41 | 46.00 | -23.59 | Average |
| 7 | 0.894 | 22.96 | 0.07 | 9.54 | 32.57 | 56.00 | -23.43 | QP |
| 8 | 3.258 | 5.15 | 0.16 | 9.57 | 14.88 | 46.00 | -31.12 | Average |
| 9 | 3.258 | 16.29 | 0.16 | 9.57 | 26.02 | 56.00 | -29.98 | QP |
| 10 | 4.900 | 4.36 | 0.19 | 9.65 | 14.20 | 46.00 | -31.80 | Average |
| 11 | 4.900 | 14.28 | 0.19 | 9.65 | 24.12 | 56.00 | -31.88 | QP |



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6.2 Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop

| | |
|-------------------|--|
| Test Requirement: | EN IEC 55015: 2019+A11:2020 |
| Test Method: | CISPR 16-2-3: 2016 |
| Limit: | |
| 0.009MHz-0.07MHz | 88dB(μA) quasi-peak |
| 0.07MHz-0.15MHz | 88dB(μA)-58dB(μA) quasi-peak |
| 0.15MHz-3MHz | 58dB(μA)-22dB(μA) quasi-peak |
| 3MHz-30MHz | 22dB(μA) quasi-peak |
| Detector: | Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

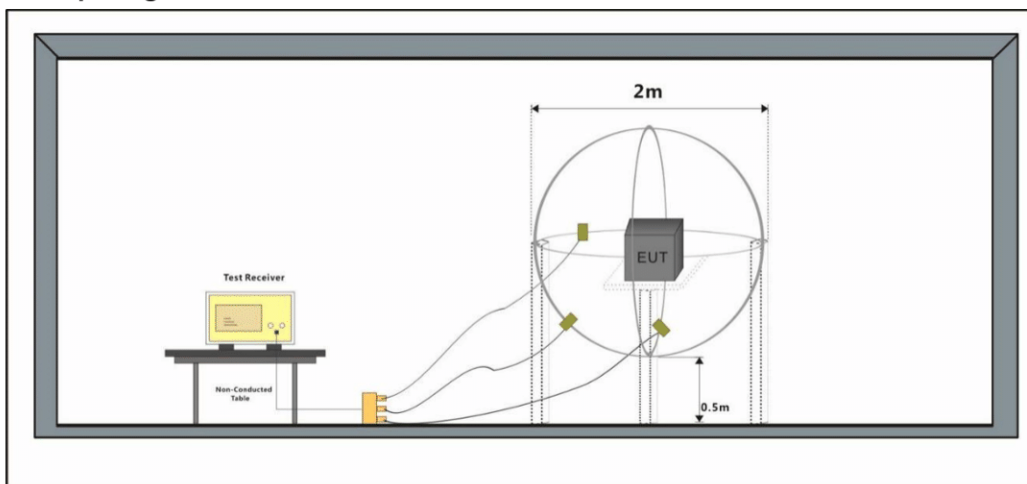
6.2.1 E.U.T. Operation

| | | | |
|------------------------|---------|-----------------------|-----------|
| Operating Environment: | | | |
| Temperature: | 23.3 °C | Humidity: | 51.8 % RH |
| | | Atmospheric Pressure: | 1020 mbar |

6.2.2 Test Mode Description

| Pre-scan / Mode | Description |
|-----------------|---|
| Final test Code | |
| Final test 00 | Test the EUT in charging mode. |
| Pre-scan 01 | Test the EUT in LED lighting mode, setting at the maximum brightness. |
| Pre-scan 02 | Test the EUT in LED lighting mode, setting at the medium brightness. |
| Pre-scan 03 | Test the EUT in LED lighting mode, setting at the minimum brightness. |

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

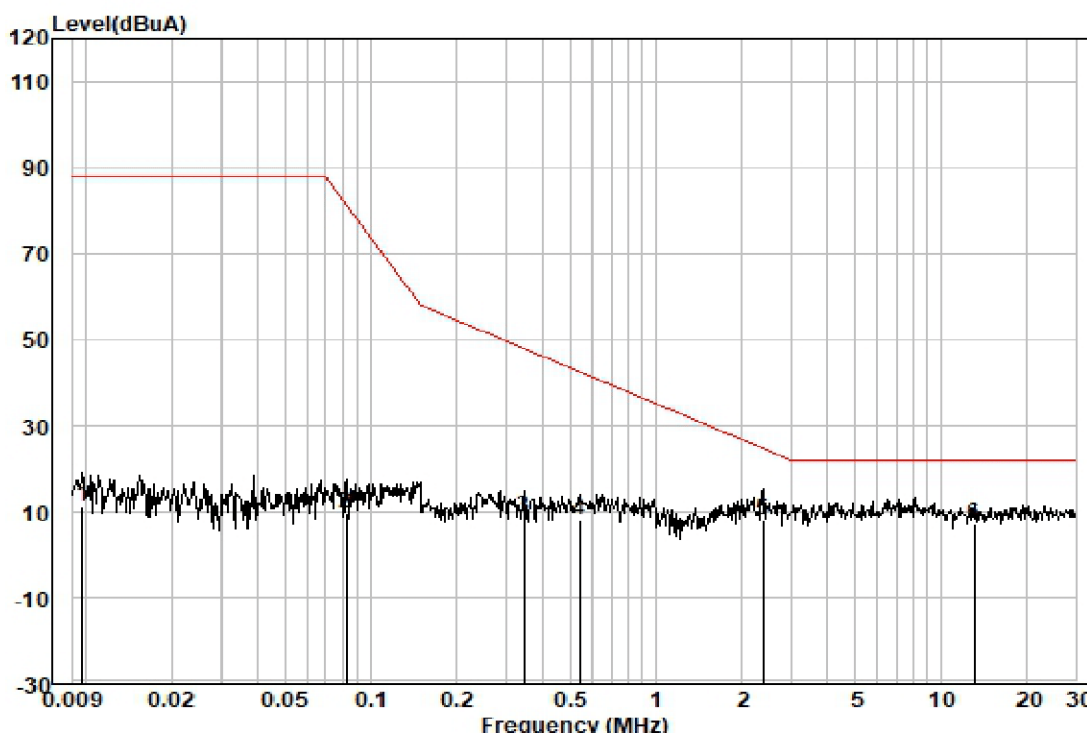
Frequency range: 9kHz-30MHz

An initial pre-scan was performed in the 2m loop antenna using the spectrum analyser in peak detection mode. The EUT was measured for X(A), Y(B), Z(C) polarities.

The red line show in graphic is the limit in standard used in this section.

Measured Level= Read Level + Cable Loss + Antenna Factor(if applicable)

Test Mode: 00; Axial:X



loop : X
Test Mode:
Model :

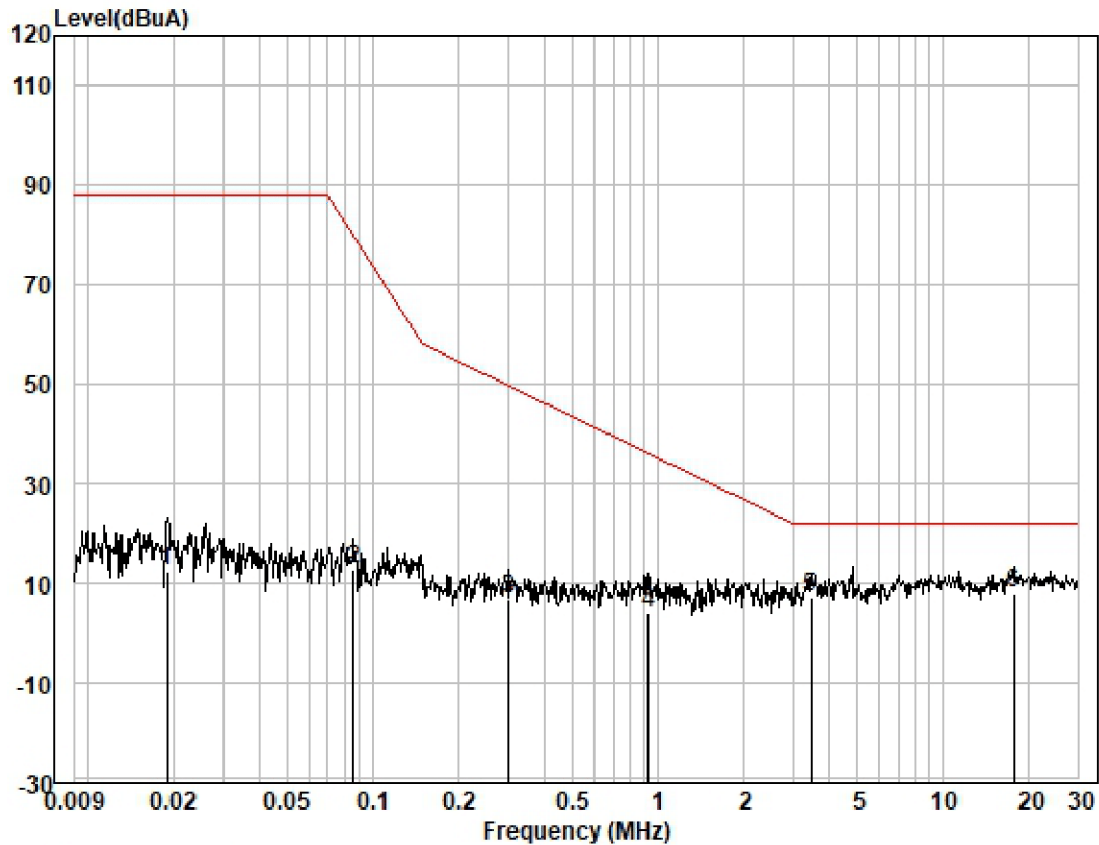
| Frequency MHz | Read level dBuV | Cable Loss dB | Antenna Factor dB | Preamp Factor dB | Measured level dBuA | Limit Line dBuA | Over limit dB | Remark |
|---------------|-----------------|---------------|-------------------|------------------|---------------------|-----------------|---------------|--------|
| 0.01 | 9.88 | 0.00 | 1.15 | 0.00 | 11.03 | 88.00 | -76.97 | QP |
| 0.08 | 9.53 | 0.00 | 0.07 | 0.00 | 9.60 | 81.57 | -71.97 | QP |
| 0.35 | 9.00 | 0.10 | -0.39 | 0.00 | 8.71 | 47.94 | -39.23 | QP |
| 0.54 | 8.53 | 0.10 | -0.56 | 0.00 | 8.07 | 42.58 | -34.51 | QP |
| 2.39 | 7.62 | 0.24 | 0.20 | 0.00 | 8.06 | 24.74 | -16.68 | QP |
| 13.12 | 5.24 | 0.70 | 1.16 | 0.00 | 7.10 | 22.00 | -14.90 | QP |



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Test Mode: 00; Axial:Y



loop : Y
 Test Mode:
 Model :

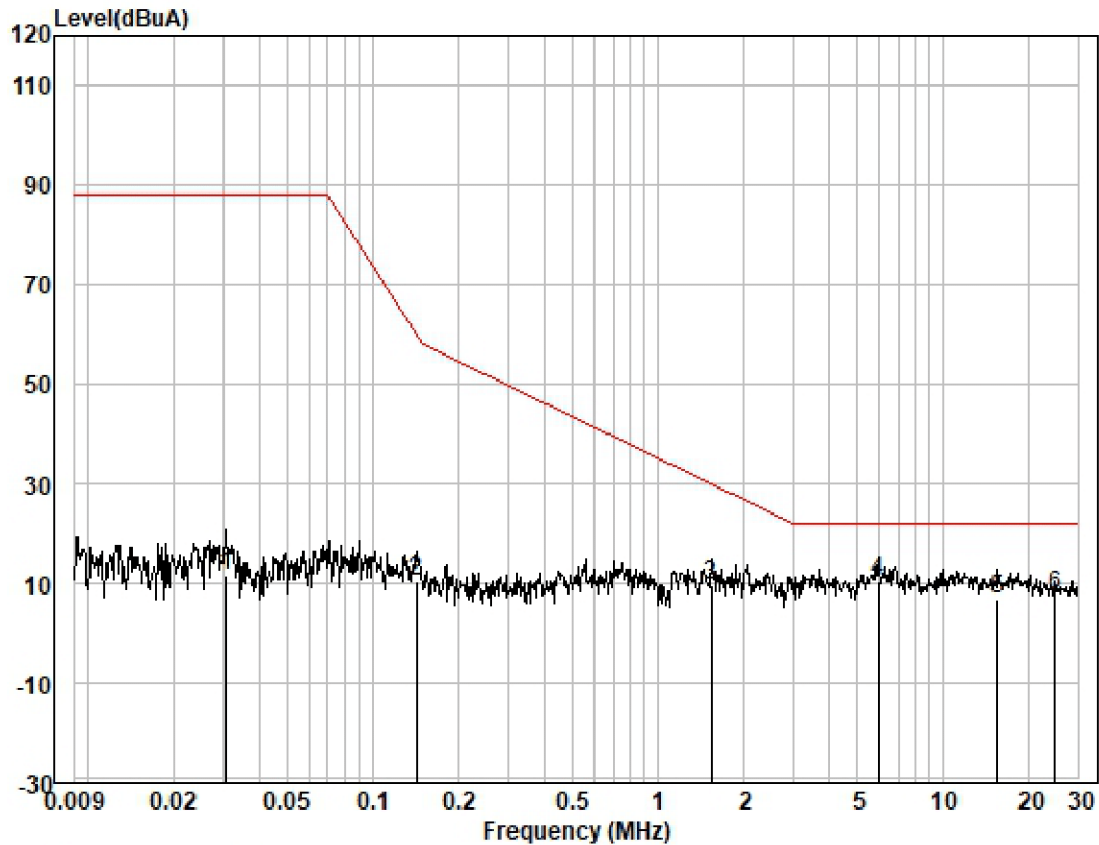
| Frequency MHz | Read level dBuV | Cable Loss dB | Antenna Factor dB | Preamp Factor dB | Measured level dBuA | Limit Line dBuA | Over limit dB | Remark |
|------------------|-----------------------|---------------------|-------------------------|------------------------|---------------------------|-----------------------|---------------------|--------|
| 0.02 | 11.42 | 0.00 | 0.91 | 0.00 | 12.33 | 88.00 | -75.67 | QP |
| 0.09 | 12.86 | 0.00 | 0.10 | 0.00 | 12.96 | 79.98 | -67.02 | QP |
| 0.30 | 6.48 | 0.10 | 0.07 | 0.00 | 6.65 | 49.60 | -42.95 | QP |
| 0.93 | 3.82 | 0.10 | 0.00 | 0.00 | 3.92 | 36.05 | -32.13 | QP |
| 3.47 | 6.20 | 0.35 | 0.49 | 0.00 | 7.04 | 22.00 | -14.96 | QP |
| 17.85 | 6.86 | 0.80 | 0.53 | 0.00 | 8.19 | 22.00 | -13.81 | QP |



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Test Mode: 00; Axial:Z



loop : Z
 Test Mode:
 Model :

| Frequency MHz | Read level dBuV | Cable Loss dB | Antenna Factor dB | Preamp Factor dB | Measured level dBuA | Limit Line dBuA | Over limit dB | Remark |
|------------------|-----------------------|---------------------|-------------------------|------------------------|---------------------------|-----------------------|---------------------|--------|
| 0.03 | 11.71 | 0.00 | 0.07 | 0.00 | 11.78 | 88.00 | -76.22 | QP |
| 0.14 | 10.68 | 0.10 | -0.20 | 0.00 | 10.58 | 59.86 | -49.28 | QP |
| 1.54 | 9.56 | 0.17 | 0.01 | 0.00 | 9.74 | 30.01 | -20.27 | QP |
| 5.97 | 9.47 | 0.50 | 0.30 | 0.00 | 10.27 | 22.00 | -11.73 | QP |
| 15.55 | 4.94 | 0.75 | 1.30 | 0.00 | 6.99 | 22.00 | -15.01 | QP |
| 24.89 | 5.22 | 0.98 | 1.20 | 0.00 | 7.40 | 22.00 | -14.60 | QP |



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6.3 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN IEC 55015: 2019+A11:2020
 Test Method: CISPR 16-2-3: 2016
 Limit:
 Test Distance: 3m
 30MHz-230MHz 40 dB(μV/m) quasi-peak
 230MHz-1GHz 47 dB(μV/m) quasi-peak
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

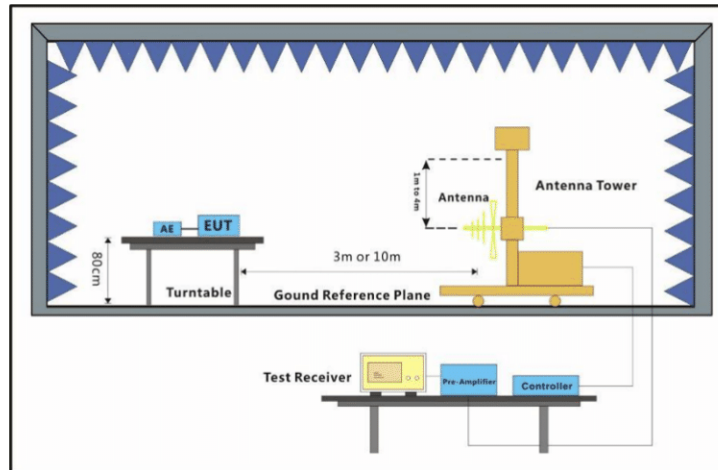
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.3 °C Humidity: 51.8 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

| Pre-scan / Mode | Description |
|-----------------|---|
| Final test Code | Description |
| Final test 00 | Test the EUT in charging mode. |
| Pre-scan 01 | Test the EUT in LED lighting mode, setting at the maximum brightness. |
| Pre-scan 02 | Test the EUT in LED lighting mode, setting at the medium brightness. |
| Pre-scan 03 | Test the EUT in LED lighting mode, setting at the minimum brightness. |

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

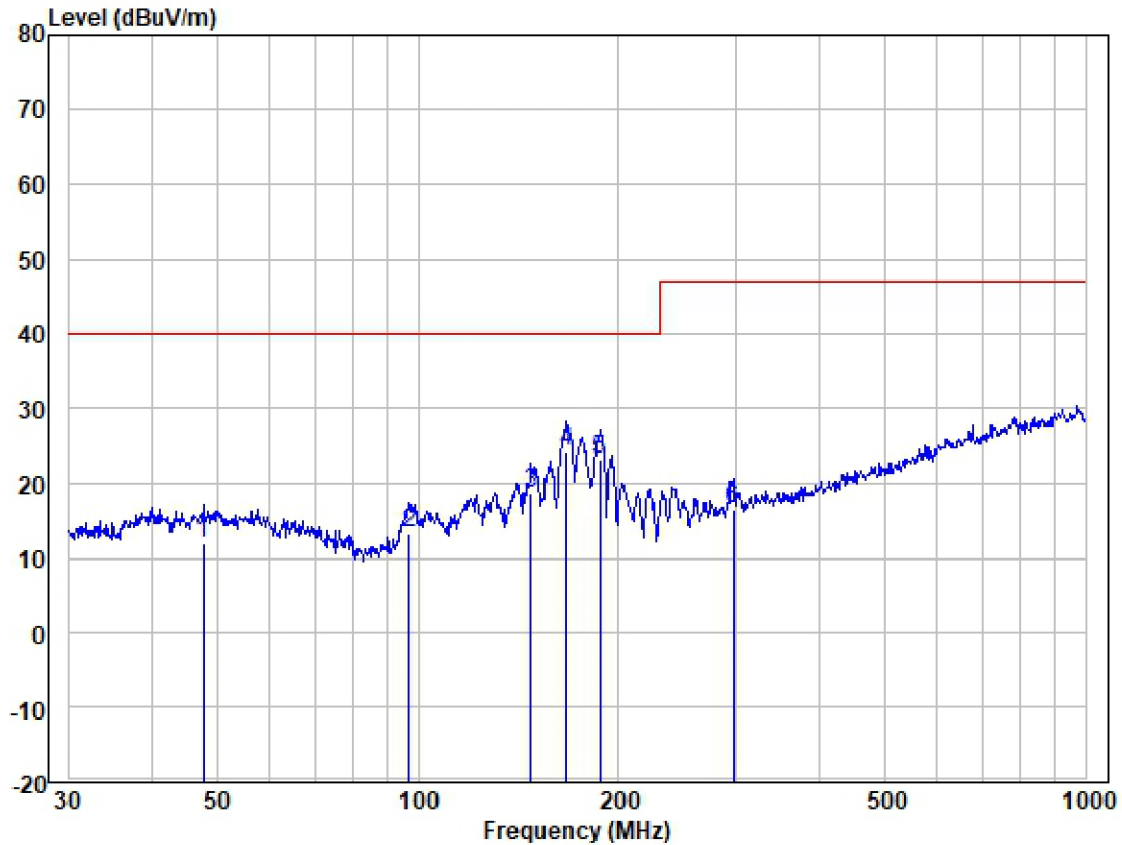
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 00; Polarity: Horizontal



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode : CHARING

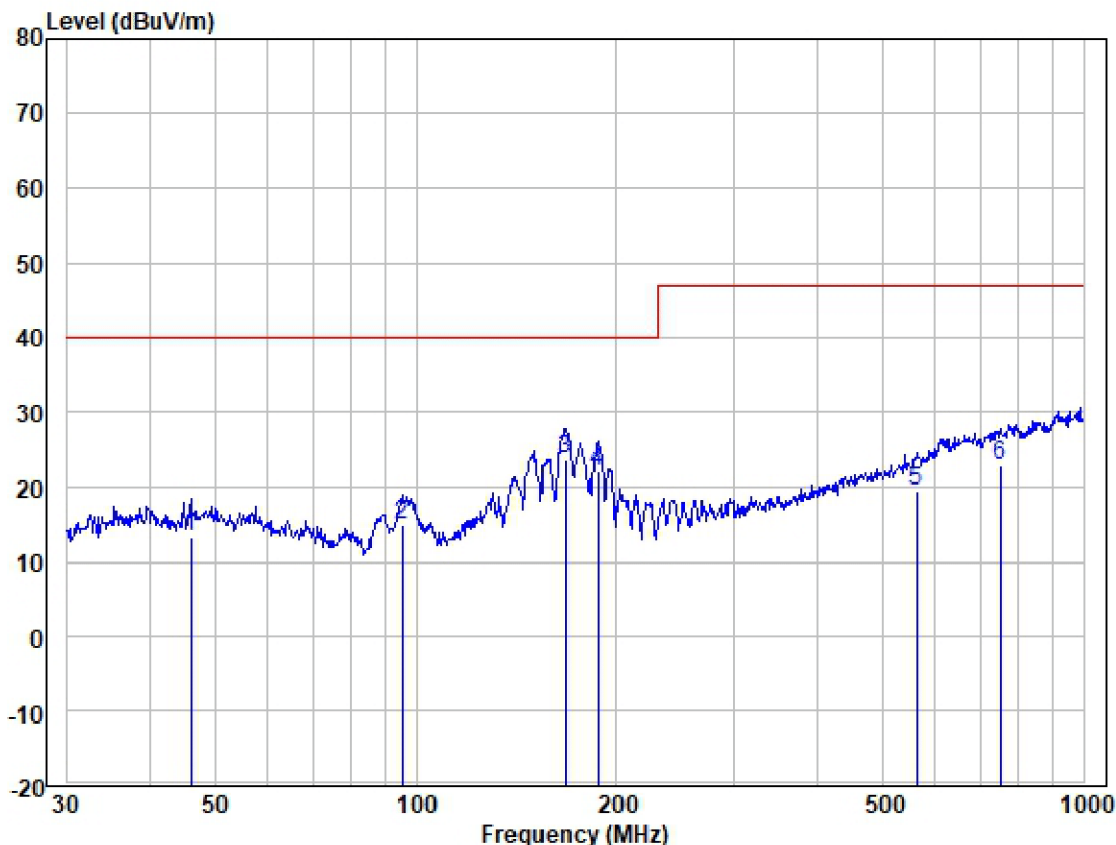
| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---------|------------|----------------|------------|---------------|----------------|------------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 47.659 | 25.11 | 19.50 | 0.38 | 32.88 | 12.11 | 40.00 | -27.89 | HORIZONTAL | QP |
| 2 | 97.115 | 31.41 | 14.14 | 0.53 | 32.80 | 13.28 | 40.00 | -26.72 | HORIZONTAL | QP |
| 3 | 147.404 | 31.96 | 18.91 | 0.66 | 32.82 | 18.71 | 40.00 | -21.29 | HORIZONTAL | QP |
| 4 | 167.237 | 37.53 | 18.93 | 0.72 | 32.83 | 24.35 | 40.00 | -15.65 | HORIZONTAL | QP |
| 5 | 187.096 | 38.46 | 16.70 | 0.76 | 32.84 | 23.08 | 40.00 | -16.92 | HORIZONTAL | QP |
| 6 | 296.184 | 29.29 | 19.18 | 0.98 | 32.88 | 16.57 | 47.00 | -30.43 | HORIZONTAL | QP |



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Test Mode: 00; Polarity: Vertical



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode : CHARING

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---------|------------|----------------|------------|---------------|----------------|------------|------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 46.016 | 26.47 | 19.48 | 0.37 | 32.87 | 13.45 | 40.00 | -26.55 | VERTICAL | QP |
| 2 | 95.427 | 33.34 | 13.86 | 0.53 | 32.80 | 14.93 | 40.00 | -25.07 | VERTICAL | QP |
| 3 | 167.824 | 37.08 | 18.88 | 0.72 | 32.83 | 23.85 | 40.00 | -16.15 | VERTICAL | QP |
| 4 | 187.096 | 37.46 | 16.70 | 0.76 | 32.84 | 22.08 | 40.00 | -17.92 | VERTICAL | QP |
| 5 | 560.693 | 26.47 | 24.56 | 1.39 | 32.94 | 19.48 | 47.00 | -27.52 | VERTICAL | QP |
| 6 | 750.108 | 25.50 | 28.23 | 1.60 | 32.47 | 22.86 | 47.00 | -24.14 | VERTICAL | QP |



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6.4 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2: 2019+A1:2021+A2:2024

Test Method: EN IEC 61000-3-2: 2019+A1:2021+A2:2024

6.4.1 Conclusion

Remark:

Since the EUT was belong to exception of clause 7 and Annex B, according to EN IEC 61000-3-2 figure 1, it was deemed to conform to the requirements of this standard without further testing.

7 Harmonic current limits

The procedure for applying the limits and assessing the results is shown in Figure 1.

For the following categories of equipment, limits are not specified in this standard:

NOTE 1 Limits may be defined in a future amendment or revision of the standard.

- lighting equipment with a rated power less than but not equal to 5 W;
- equipment with a rated power of 75 W or less, other than lighting equipment;

NOTE 2 This value may be reduced from 75 W to 50 W in the future, subject to approval by National Committees at that time.

- professional equipment with a total rated power greater than 1 kW;
- symmetrically controlled heating elements with a rated power less than or equal to 200 W;
- independent phase control dimmers
 - with a rated power less than or equal to 1 kW when operating incandescent lamps;
 - with a rated power less than or equal to 200 W for trailing edge dimmers, and universal phase control dimmers with the default mode set to trailing edge, when operating lighting equipment other than incandescent lamps;
 - with a rated power less than or equal to 100 W for leading edge dimmers, and universal phase control dimmers without default mode set to trailing edge, when operating lighting equipment other than incandescent lamps.

and

Kitchen machines as listed in the scope of IEC 60335-2-14 are deemed to conform to the harmonic current limits of this standard without further testing.

Please read clause 7 & Annex B of this standard for reference.



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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3: 2013+ A1:2019+A2:2021

Test Method: EN 61000-3-3: 2013+ A1:2019+A2:2021

6.5.1 E.U.T. Operation

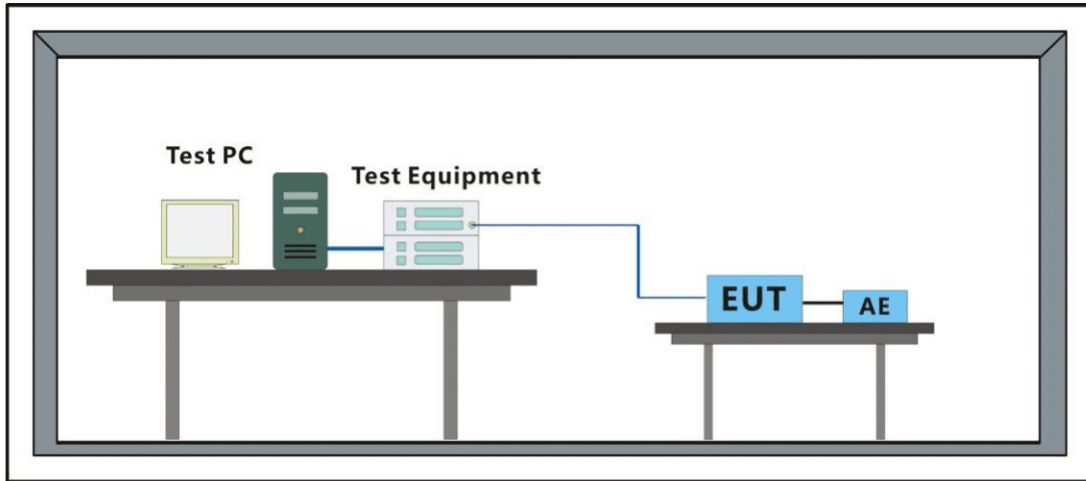
Operating Environment:

Temperature: 21.7 °C Humidity: 40.7 % RH Atmospheric Pressure: 1020 mbar

6.5.2 Test Mode Description

| Pre-scan / | Mode | Description |
|------------|------|--------------------------------|
| Final test | Code | |
| Final test | 00 | Test the EUT in charging mode. |

6.5.3 Test Setup Diagram



6.5.4 Measurement Procedure and Data

Test Mode: 00

Flicker Results

Standard Specific Results for IEC 61000-3-3 (Edition 3)

Standard Group: Industry

Standard Name: IEC 61000-3-3 (Edition 3)

Limitation of voltage changes, voltage fluctuations and flicker

in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

Test Condition: General Test Conditions

Analysis Status: **PASS**

| Flicker Measurements Settings | |
|-------------------------------|-------------|
| Main Line: | 230V, 50Hz |
| Flicker Meter: | 230V / 50Hz |
| Flicker Impedance: | Zref |
| Observation Time: | 1 × 10 min |
| Measurements: | 1 |

| Flicker Measurements | | | | | |
|----------------------|-----------------|---------------------|--------------------|----------------------|----------------------|
| | P _{st} | Max P _{st} | Max d _c | Max d _{max} | Max T _{max} |
| Line 1: | 0.048 | 0.108 | 0 | < 0.2 | 0 |
| Limits: | 0.65 | 1 | 3.3 | 4 | 0.5 |
| Results: | PASS | PASS | PASS | PASS | PASS |

| Flicker Individual Measurements | | | | | | | | | | | | |
|---------------------------------|---------------------|-------|--------|--------------------|-------|--------|----------------------|-------|--------|----------------------|-------|--------|
| Measurement | P _{st} [] | | | d _c [%] | | | d _{max} [%] | | | T _{max} [s] | | |
| | Value | Limit | Result | Value | Limit | Result | Value | Limit | Result | Value | Limit | Result |
| #1 | 0.11 | 1.00 | PASS | 0.00 | 3.30 | PASS | < 0.2 | 4.00 | PASS | 0.00 | 0.50 | PASS |



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Pst Data

Short-term Flicker Severity (Pst) (Line 1)



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7 Immunity Test Results

Performance Criteria Description in EN IEC 61547

- Criterion A:** During the test, no change of the luminous intensity shall be observed and the regulating control, if any, shall operate during the test as intended.
- Criterion B:** During the test, the luminous intensity may change to any value. After the test, the luminous intensity shall be restored to its initial value within 1 min. Regulating controls need not function during the test, but after the test, the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.
- Criterion C:** During and after the test, any change of the luminous intensity is allowed and the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal, if necessary by temporary interruption of the mains supply and/or operating the regulating control.



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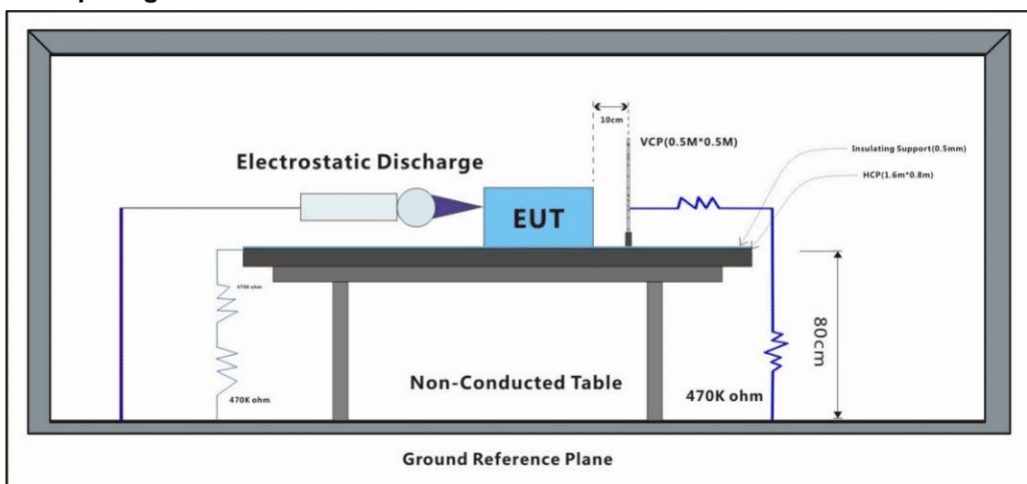
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7.1 Electrostatic Discharge

Test Requirement: EN IEC 61547: 2023

Test Method: EN 61000-4-2:2009

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 40.7 % RH Atmospheric Pressure: 1020 mbar

7.1.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 00 | Test the EUT in charging mode. |
| Final test | 01 | Test the EUT in LED lighting mode, setting at the maximum brightness. |
| Final test | 02 | Test the EUT in LED lighting mode, setting at the medium brightness. |
| Final test | 03 | Test the EUT in LED lighting mode, setting at the minimum brightness. |
| Final test | 04 | Test the EUT in idle mode. |



7.1.4 Test Condition and Results

Performance Criterion: B for other than Road and street lighting equipment;

Performance Criterion: C for Road and street lighting equipment.

Discharge Impedance: 330 Ω / 150 pF

Discharge Voltage: Air Discharge: ±2,4,8 kV; Contact Discharge: ±4 kV; VCP/HCP: ±4 kV for other than Road and street lighting equipment;

Air Discharge: ±2,4,8,15 kV; Contact Discharge: ±4,8 kV; VCP/HCP: ±4,8 kV for Road and street lighting equipment.

Polarity: Positive & Negative

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: Single Discharge

Discharge Period: 1 second minimum

Test Point 1: All insulated enclosure & seams.

Test Point 2: All accessible metal parts of the enclosure.

Test Point 3: All sides.

| Discharge type | Level (kV) | Polarity | Test Point | Result / Observations |
|---------------------|------------|----------|------------|-----------------------|
| Air Discharge | 2,4,8 | + | 1 | A |
| Air Discharge | 2,4,8 | - | 1 | A |
| Contact Discharge | 4 | + | 2 | A |
| Contact Discharge | 4 | - | 2 | A |
| Horizontal Coupling | 4 | + | 3 | A |
| Horizontal Coupling | 4 | - | 3 | A |
| Vertical Coupling | 4 | + | 3 | A |
| Vertical Coupling | 4 | - | 3 | A |

A: No degradation in the performance of the EUT was observed



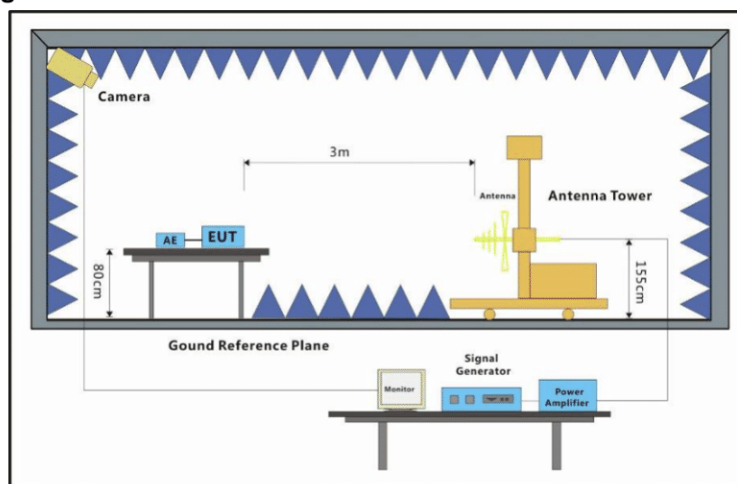
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7.2 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN IEC 61547: 2023
 Test Method: EN IEC 61000-4-3:2020

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:
 Temperature: 21.2 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.2.3 Test Mode Description

| Pre-scan / Final test | Mode / Code | Description |
|-----------------------|-------------|---|
| Final test | 00 | Test the EUT in charging mode. |
| Final test | 01 | Test the EUT in LED lighting mode, setting at the maximum brightness. |
| Final test | 02 | Test the EUT in LED lighting mode, setting at the medium brightness. |
| Final test | 03 | Test the EUT in LED lighting mode, setting at the minimum brightness. |
| Final test | 04 | Test the EUT in idle mode. |



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7.2.4 Test Condition and Results

Performance Criterion: A
 Frequency Range:80MHz to 1GHz
 Test Distance:3m
 Antenna Polarisation: Vertical and Horizontal
 Modulation1kHz,80% Amp. Mod,1% increment

| Frequency | Level (V/m) | EUT Face | Dwell time | Result / Observations |
|------------|-------------|----------|------------|-----------------------|
| 80MHz-1GHz | 3 | Front | 3s | A |
| 80MHz-1GHz | 3 | Back | 3s | A |
| 80MHz-1GHz | 3 | Left | 3s | A |
| 80MHz-1GHz | 3 | Right | 3s | A |
| 80MHz-1GHz | 3 | Top | 3s | A |
| 80MHz-1GHz | 3 | Bottom | 3s | A |

A: No degradation in the performance of the EUT was observed



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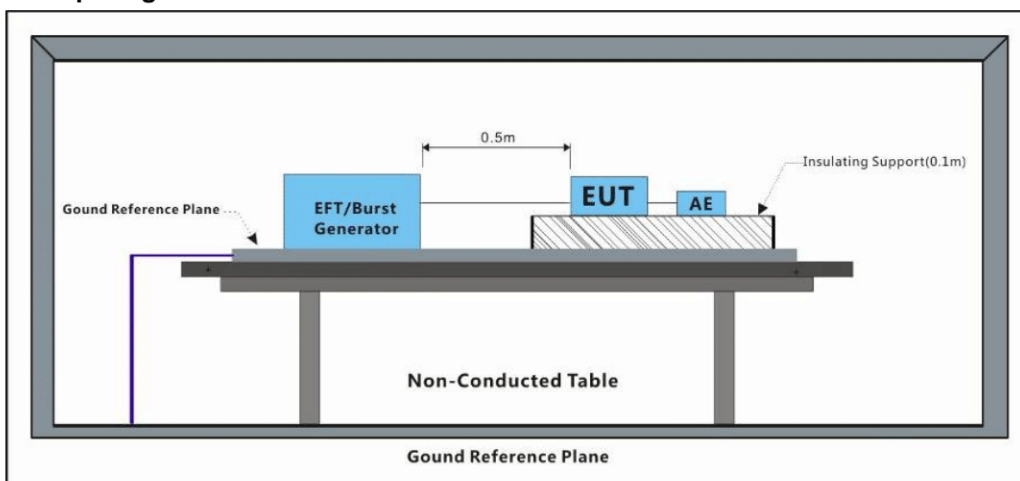
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7.3 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement: EN IEC 61547: 2023

Test Method: EN 61000-4-4:2012

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 44.1 % RH Atmospheric Pressure: 1020 mbar

7.3.3 Test Mode Description

| Pre-scan / Mode | Description |
|-----------------|--------------------------------|
| Final test Code | Description |
| Final test 00 | Test the EUT in charging mode. |
| Final test 04 | Test the EUT in idle mode. |

7.3.4 Test Condition and Results

Performance Criterion: B
 Repetition Frequency: 5kHz
 Burst Period: 300ms
 Test Duration: 2 minute per level & polarity
 Test Level: 1.0kV
 Polarity: Positive & Negative

| Test Line | Level (kV) | Polarity | CDN/Clamp | Result / Observations |
|---------------|------------|----------|-----------|-----------------------|
| AC power port | 1 | + | CDN | A |
| AC power port | 1 | - | CDN | A |

A: No degradation in the performance of the EUT was observed



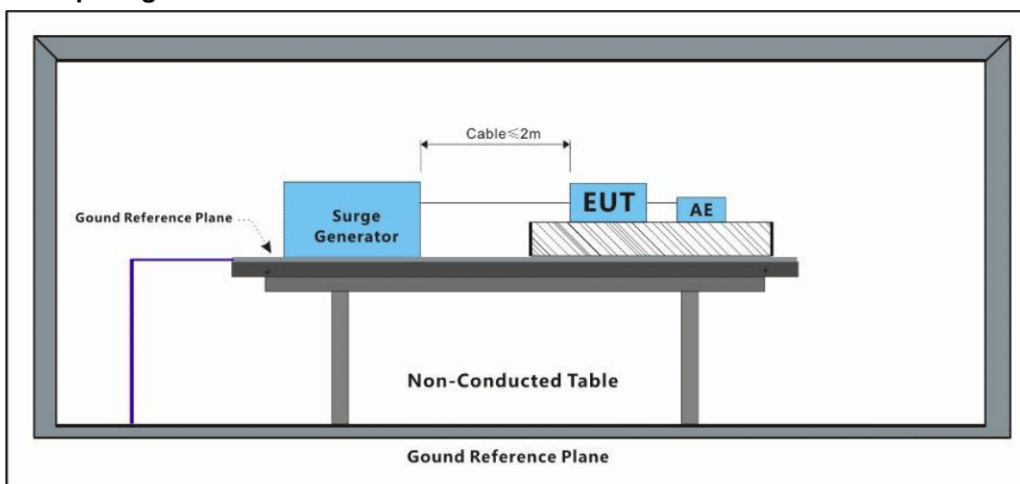
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7.4 Surge at Power Port

Test Requirement: EN IEC 61547: 2023
 Test Method: EN 61000-4-5:2014+A1:2017

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:
 Temperature: 21.7 °C Humidity: 44.1 % RH Atmospheric Pressure: 1020 mbar

7.4.3 Test Mode Description

| Pre-scan / Final test | Mode / Code | Description |
|-----------------------|-------------|--------------------------------|
| Final test | 00 | Test the EUT in charging mode. |
| Final test | 04 | Test the EUT in idle mode. |



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7.4.4 Test Condition and Results

Performance Criterion: B (Luminaire for emergency lighting),

Performance Criterion: C (for others lighting equipment).

Interval: 60s between each surge

Test Level: ±0.5kV Live to Neutral for Self-ballasted lamps ≤25W;

±1kV, ±2kV Live to Neutral; ±2kV, ±4kV Live, Neutral to Earth for Road and street lighting equipment;

±1kV Live to Neutral; ±2kV Live, Neutral to Earth for others lighting equipment.

Polarity: Positive & Negative

Generator source impedance: 2Ω

CDN coupling impedance(Line-to-ground):10Ω

Trigger Mode: Internal

No. of surges: 5 positive at 90°, 5 negative at 270°.

| Test Line | Level (kV) | Polarity | Phase (deg) | Result / Observations |
|-----------|------------|----------|-------------|-----------------------|
| L-N | 1.0 | + | 90° | A |
| L-N | 1.0 | - | 270° | A |

A: No degradation in the performance of the EUT was observed



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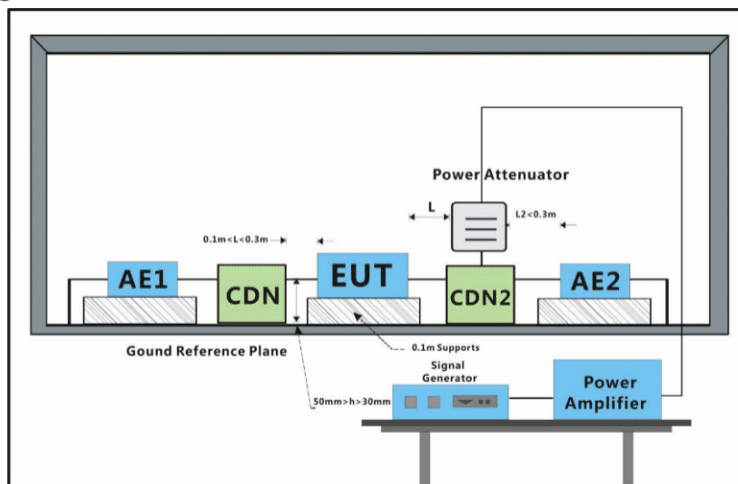
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7.5 Conducted Immunity at AC Mains Power Port (150kHz-80MHz)

Test Requirement: EN IEC 61547: 2023

Test Method: EN 61000-4-6:2014

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 44.1 % RH Atmospheric Pressure: 1020 mbar

7.5.3 Test Mode Description

| Pre-scan / Final test | Mode / Code | Description |
|-----------------------|-------------|--------------------------------|
| Final test | 00 | Test the EUT in charging mode. |
| Final test | 04 | Test the EUT in idle mode. |

7.5.4 Test Condition and Results

Performance Criterion: A

Step Size 1%

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

| Cable port | Level (Vrms) | CDN/Clamp | Dwell time | Result / Observations |
|---------------|--------------|-----------|------------|-----------------------|
| AC power port | 3 | CDN | 3s | A |

A: No degradation in the performance of the EUT was observed



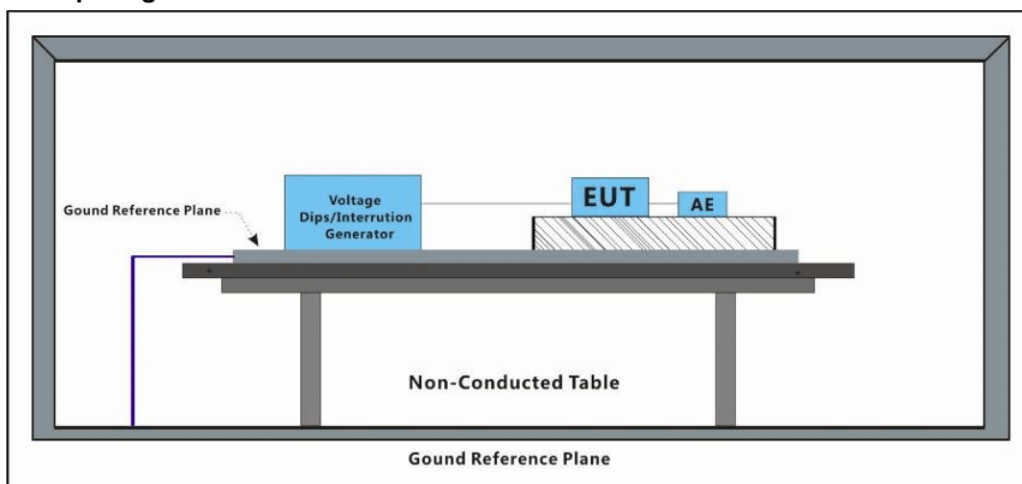
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7.6 Voltage Dips and Interruptions

Test Requirement: EN IEC 61547: 2023
 Test Method: EN IEC 61000-4-11:2020

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:
 Temperature: 21.7 °C Humidity: 44.1 % RH Atmospheric Pressure: 1020 mbar

7.6.3 Test Mode Description

| Pre-scan / Mode | Description |
|-----------------|--------------------------------|
| Final test Code | |
| Final test 00 | Test the EUT in charging mode. |
| Final test 04 | Test the EUT in idle mode. |

7.6.4 Test Condition and Results

Performance Criterion: 0% of UT (Rated Voltage) for 0.5 Cycle: B; 70% of UT for 10 Cycles: B.
 No. of Dips / Interruptions: 3 per Level
 Time between dropout: 10s

| Level % UT | Phase (deg) | Duration | No. of Dips / Interruptions | Result / Observations |
|------------|-------------|-----------|-----------------------------|-----------------------|
| 0 | 0° | 0.5 Cycle | 3 | A |
| 0 | 180° | 0.5 Cycle | 3 | A |
| 70 | 0° | 10 Cycles | 3 | A |
| 70 | 180° | 10 Cycles | 3 | A |

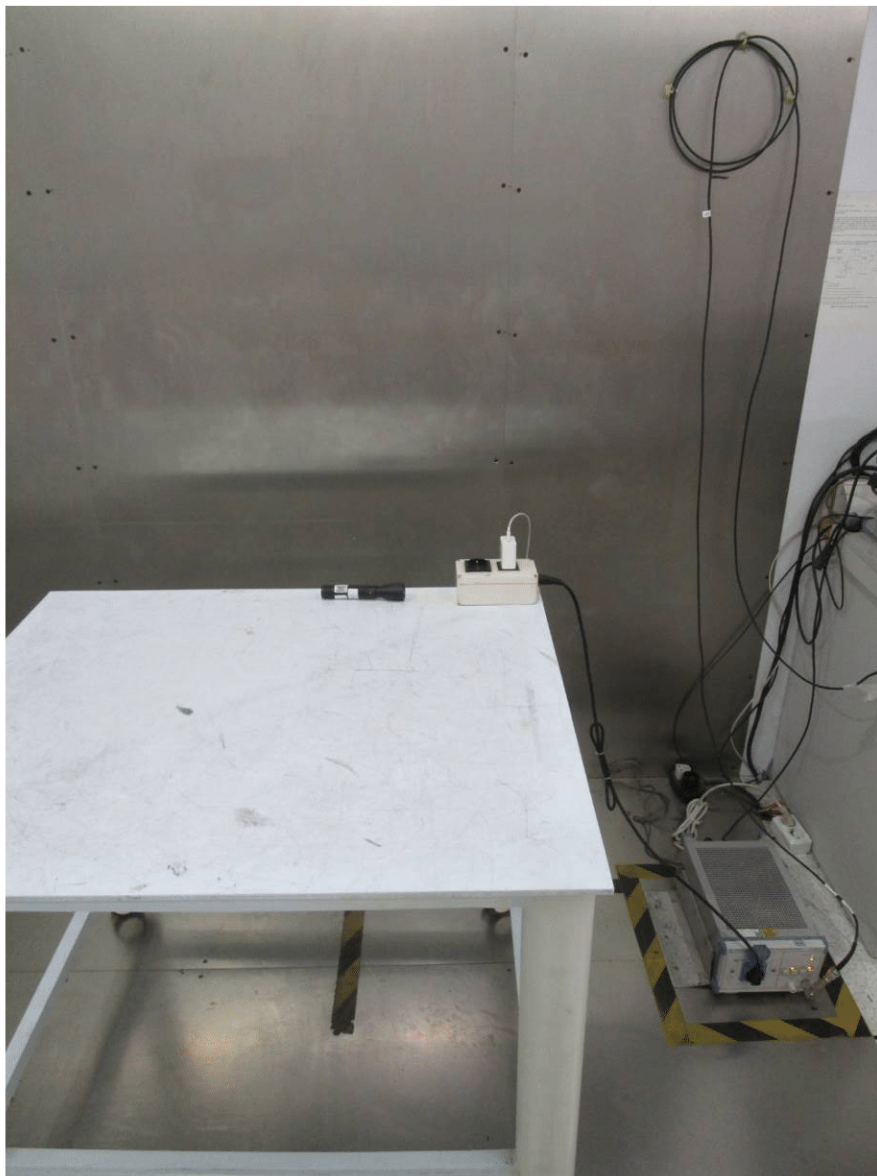
A: No degradation in the performance of the EUT was observed



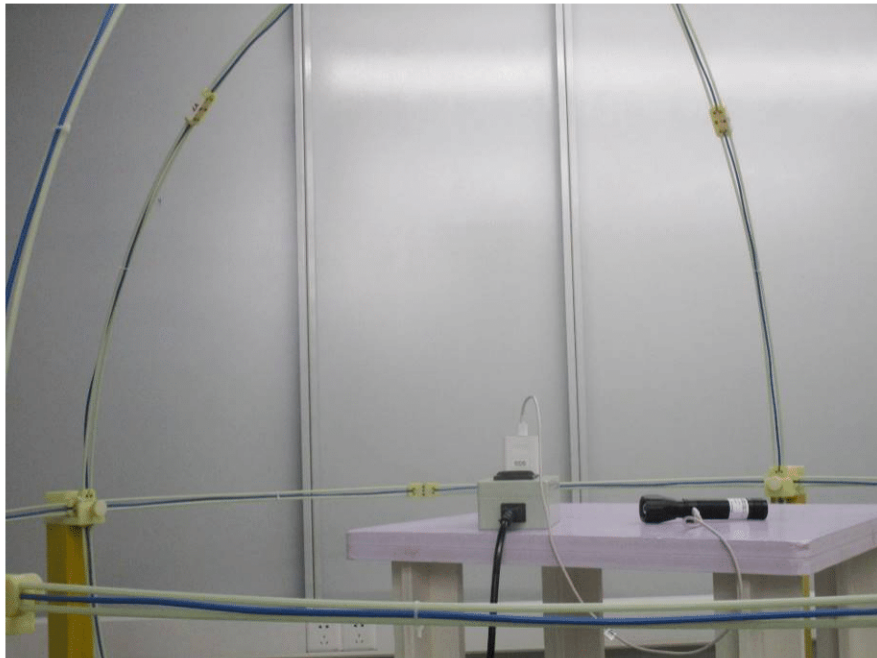
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8 Test Setup Photo

Conducted Emissions at Mains Terminals (9kHz-30MHz)



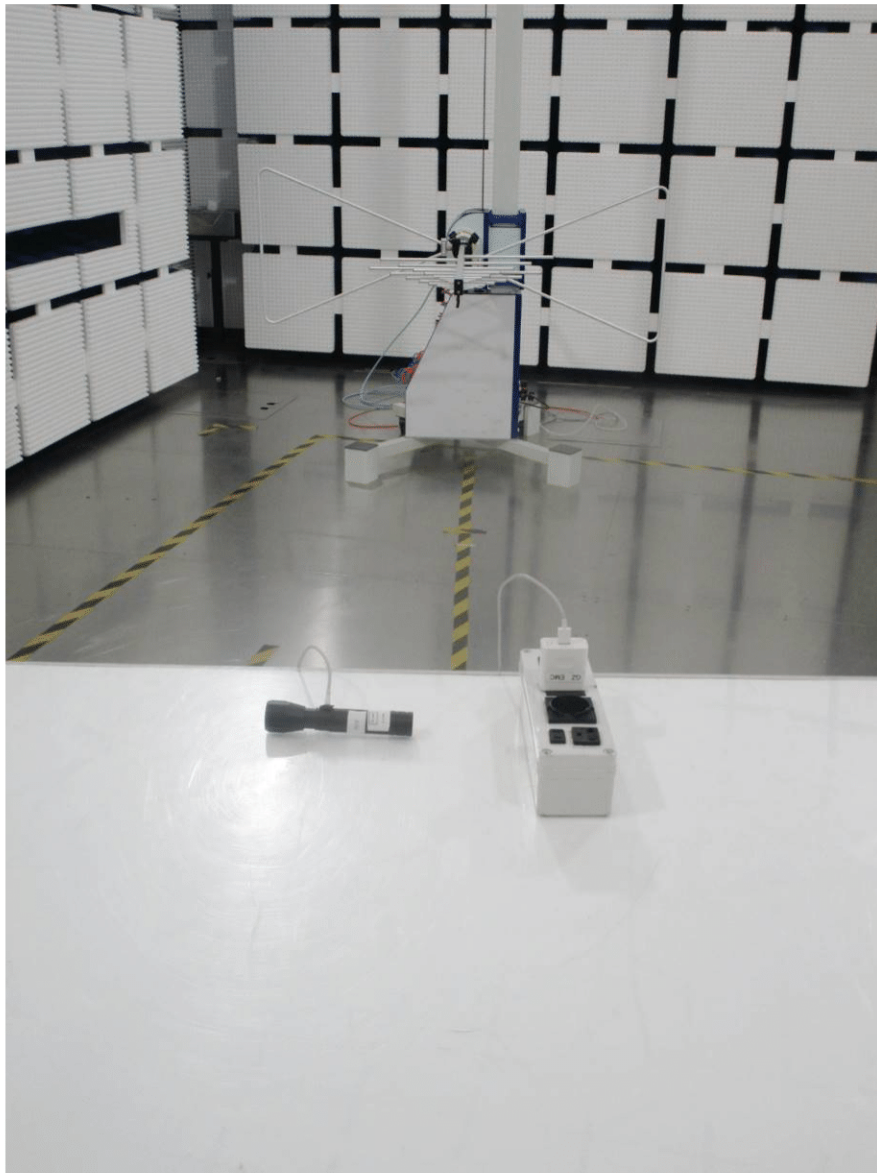
Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop



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Radiated Emissions (30MHz-1GHz)



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Voltage Fluctuations and Flicker



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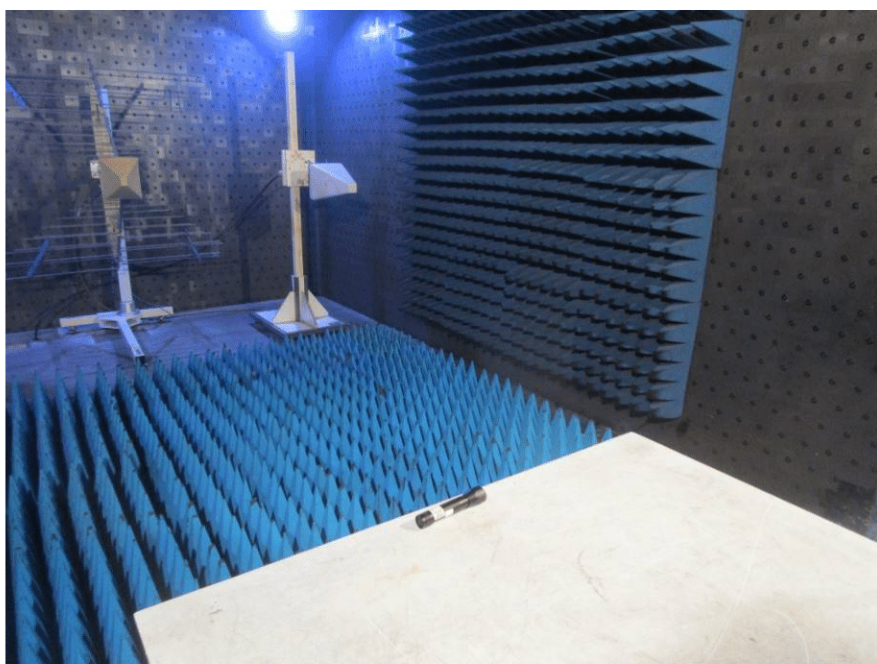
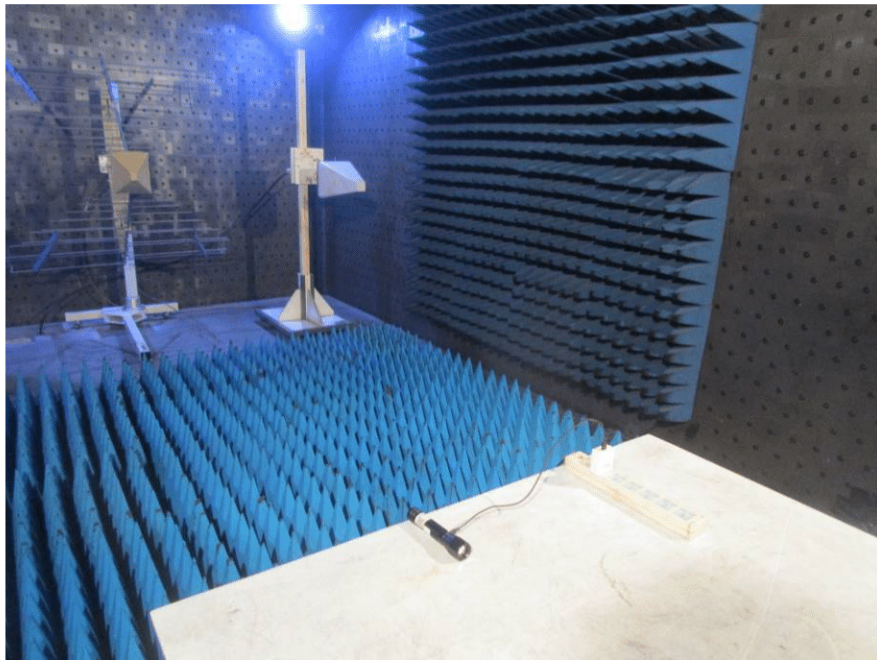
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Electrostatic Discharge





Radiated Immunity (80MHz-1GHz)



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Electrical Fast Transients Burst at AC Mains Power Port



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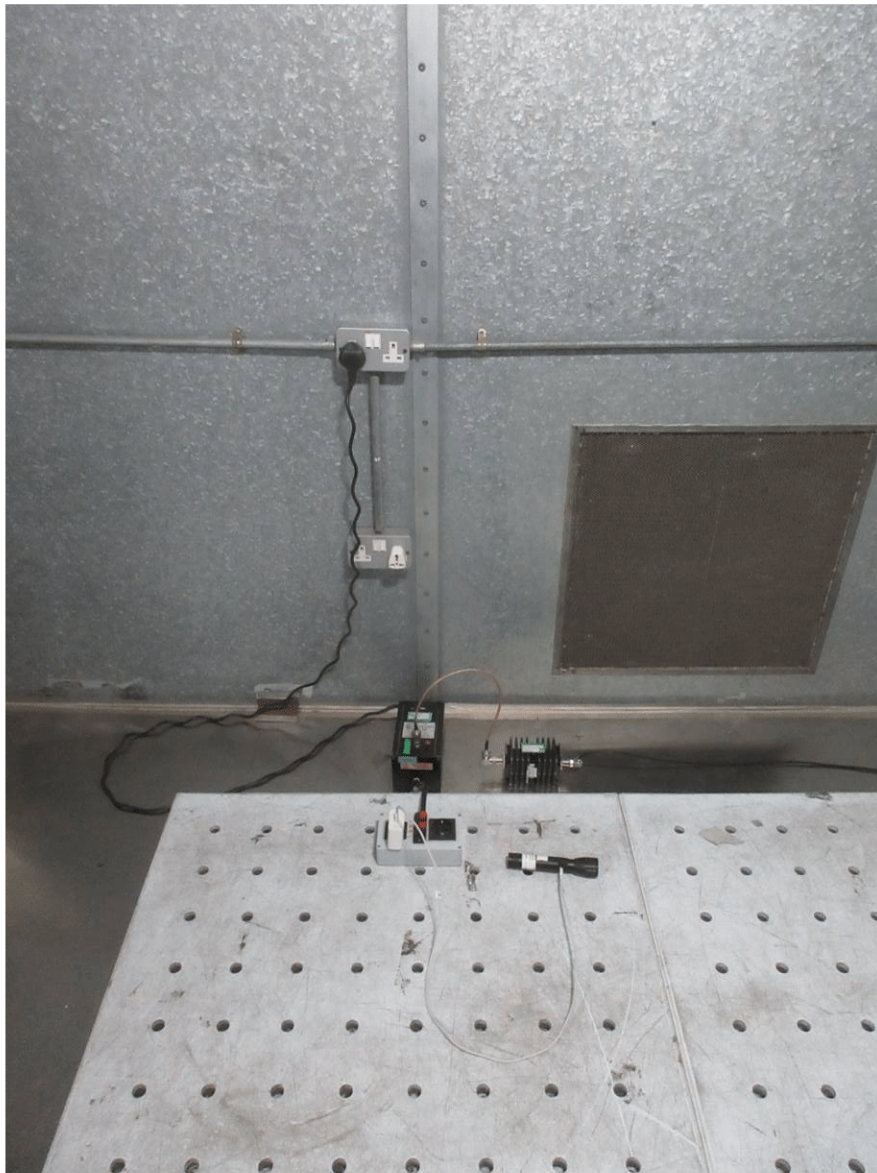
Surge at Power Port



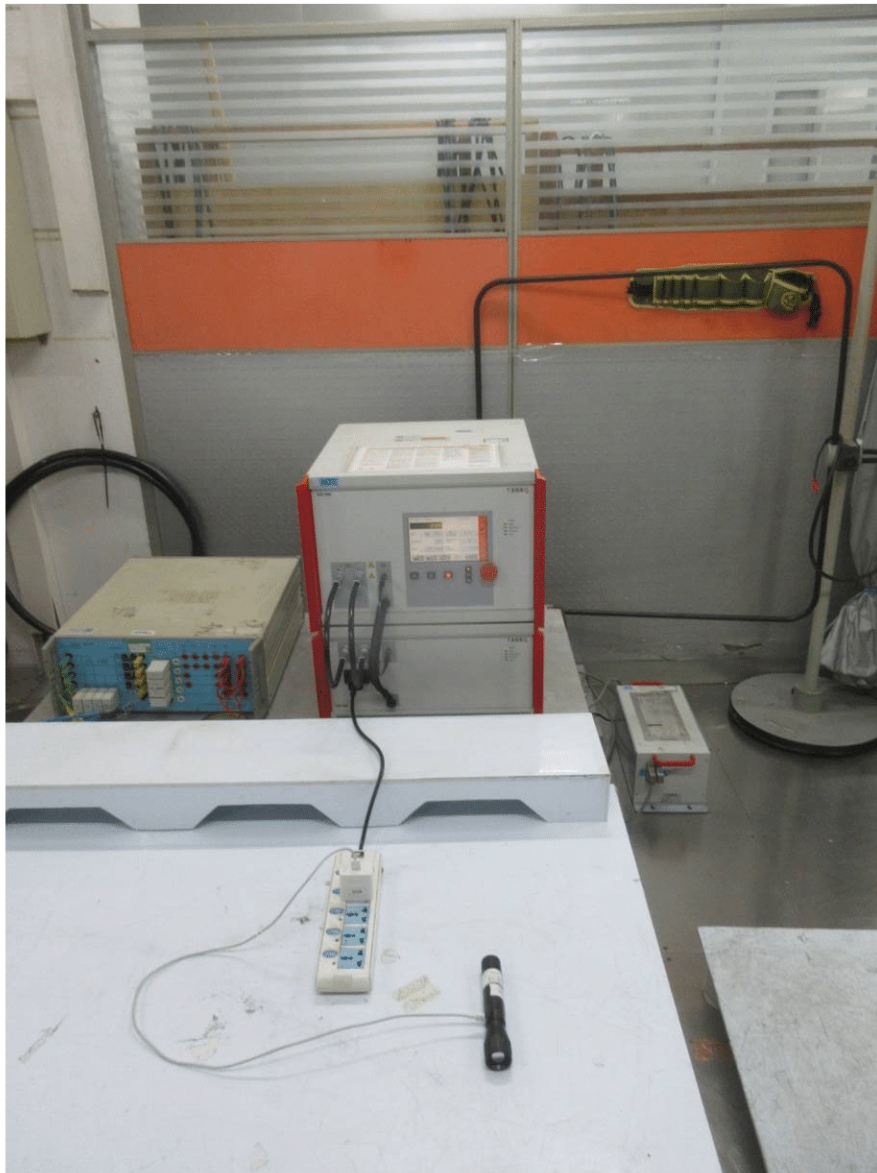
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Conducted Immunity at AC Mains Power Port (150kHz-80MHz)



Voltage Dips and Interruptions



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9 EUT Constructional Details (EUT Photos)



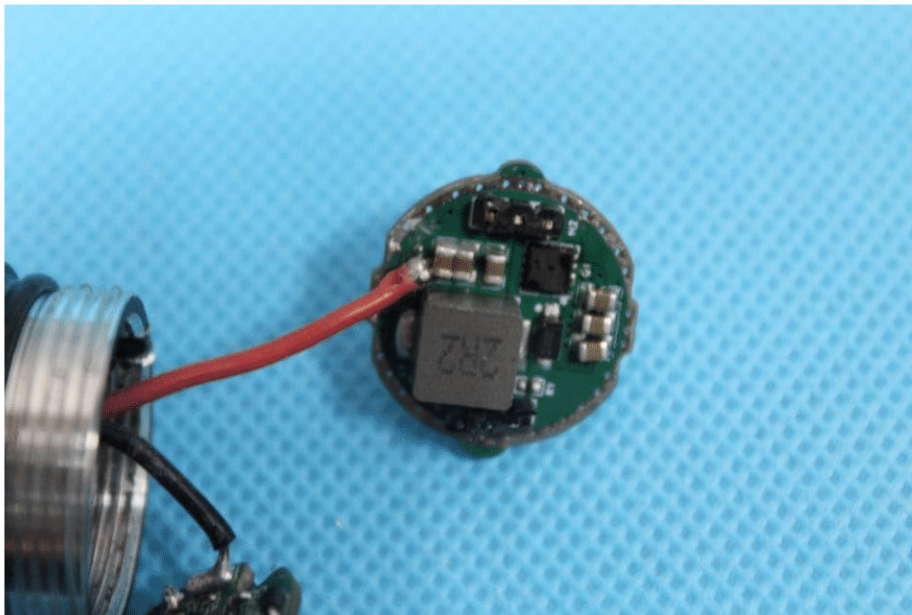
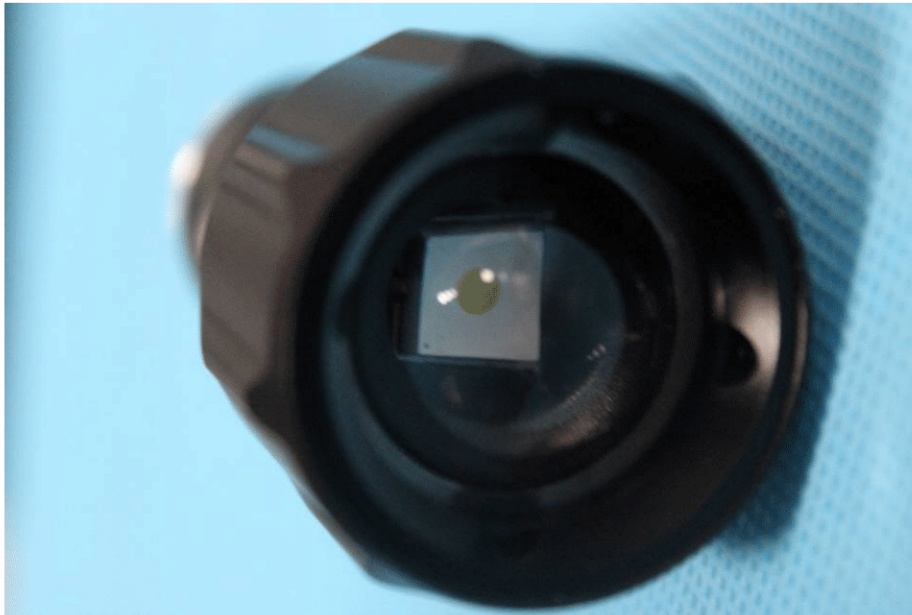
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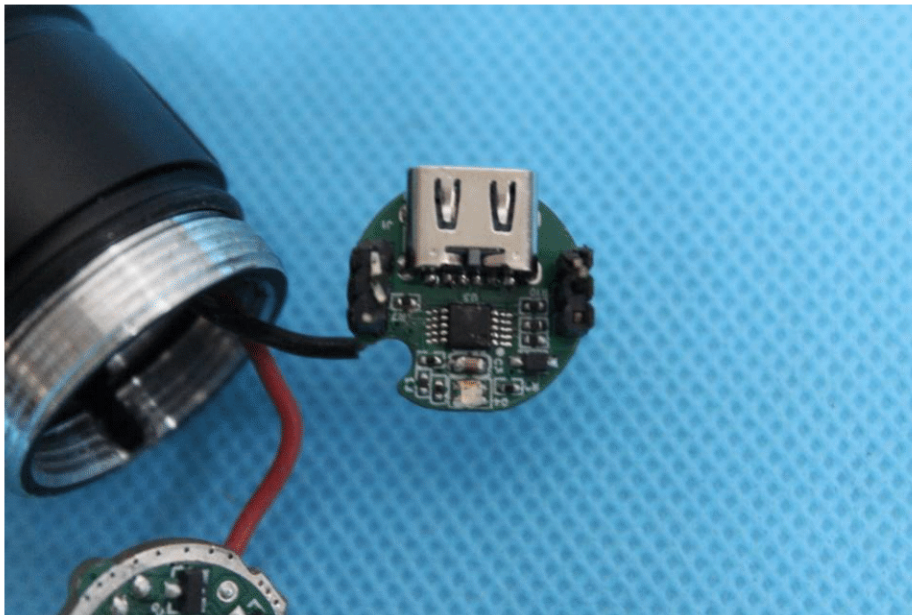
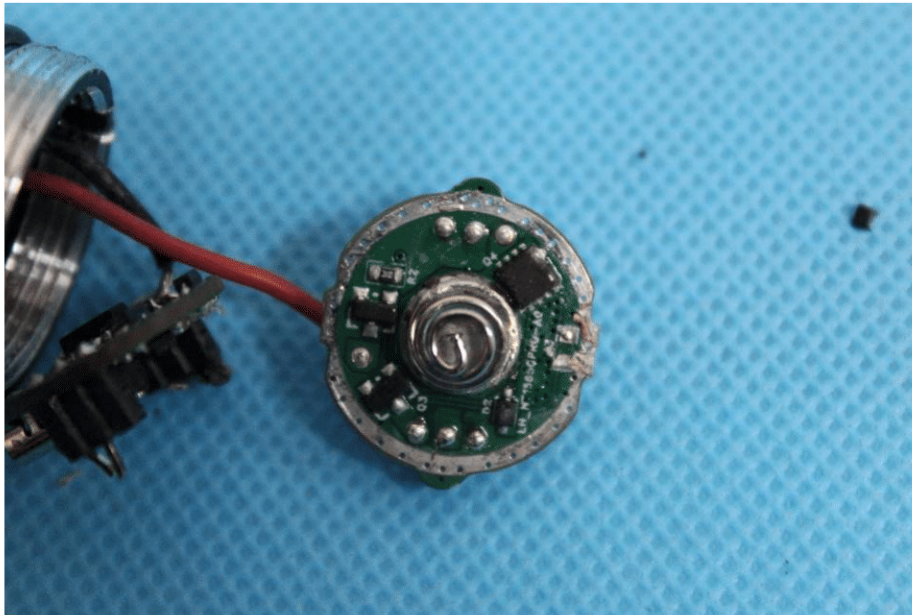
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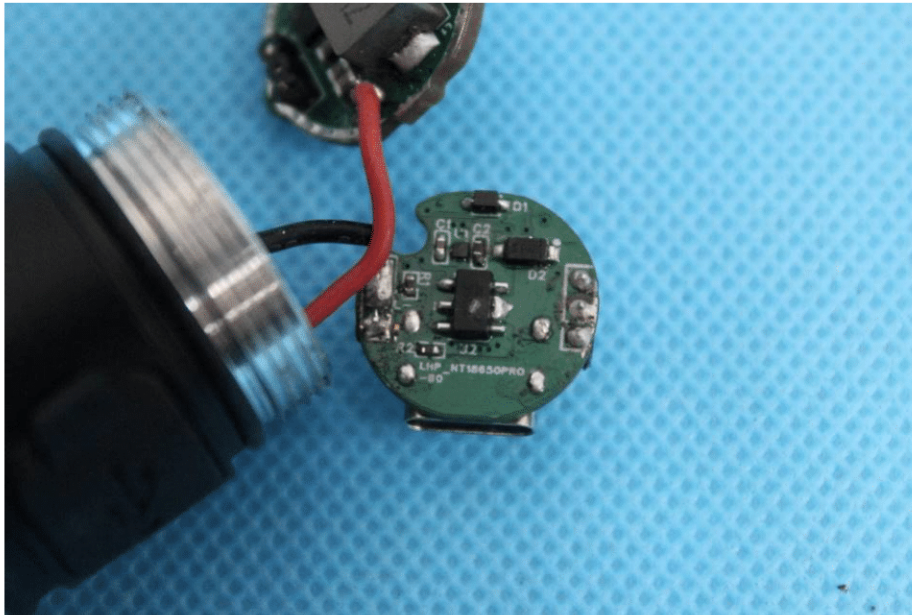
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- End of the Report -

