EMC TEST REPORT



Report No.: 18071115-FCC-E
Supersede Report No: N/A

| Applicant | lotGizmo Corporation | | | |
|---|----------------------------------|---|--|--|
| Product Name | Smart Dimming Light Switch | | | |
| Model No. | D6932 | | | |
| Serial No. | N/A | N/A | | |
| Test Standard | FCC Part 1 | FCC Part 15 Subpart B Class B, ANSI C63.4: 2014 | | |
| Test Date | September 29 to October 11, 2018 | | | |
| Issue Date | October 15, 2018 | | | |
| Test Result | Pass Fail | | | |
| Equipment complied with the specification | | | | |
| Equipment did not comply with the specification | | | | |
| mas. He | | David Huang | | |
| Evans He | | David Huang | | |
| Test Engineer | | Checked By | | |

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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|----------------|------------------------------------|
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| Canada | EMC, RF/Wireless, SAR, Telecom |
| Taiwan | EMC, RF, Telecom, SAR, Safety |
| Hong Kong | RF/Wireless, SAR, Telecom |
| Australia | EMC, RF, Telecom, SAR, Safety |
| Korea | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan | EMI, RF/Wireless, SAR, Telecom |
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1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|----------------|----------------|-------------|------------------|
| 18071115-FCC-E | NONE | Original | October 15, 2018 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | IotGizmo Corporation | |
|------------------|--|--|
| Applicant Add | 255 Old New Brunswick, Suite N330, Piscataway, New Jersey, United States | |
| | 08854 | |
| Manufacturer | Earda Technologies Co., Ltd | |
| Manufacturer Add | Block A, LianFeng Creative Industry Park,NO.2 JiSheng Road, HuangGe | |
| | Town,Nansha District, Guangzhou, PRC. | |

3. Test site information

| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES | |
|----------------------|---|--|
| | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park | |
| Lab Address | South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China | |
| | 518108 | |
| FCC Test Site No. | 535293 | |
| IC Test Site No. | 4842E-1 | |
| Test Software of | Radiated Emission Program-To Shenzhen v2.0 | |
| Radiated Emission | | |
| Test Software of | EZ-EMC(ver.lcp-03A1) | |
| Conducted Emission | | |



Test Date(s):

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| 4. Equipment under I | est (EUI) Information |
|-------------------------------|--|
| Description of EUT: | Smart Dimming Light Switch |
| Main Model: | D6932 |
| Serial Model: | N/A |
| Antenna Gain: | 3dBi |
| Antenna Type: | 3D antenna |
| Equipment Category : | JAB |
| Type of Modulation: | 802.11b/g/n: DSSS, OFDM |
| RF Operating Frequency (ies): | WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz |
| Number of Channels: | WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH |
| Input Power: | 100-240V AC 50/60Hz |
| Port: | Please refer to the user's manual |
| Trade Name : | Touch Dimmer |
| FCC ID: | 2AHVE-D6932 |
| Date EUT received: | September 28, 2018 |
| | |

September 29 to October 11, 2018



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

| FCC Rules | Description of Test | Result |
|---------------------------|-----------------------------------|------------|
| §15.107; ANSI C63.4: 2014 | AC Power Line Conducted Emissions | Compliance |
| §15.109; ANSI C63.4: 2014 | Radiated Emissions | Compliance |

Measurement Uncertainty

| Parameter | Uncertainty | |
|-----------------------------------|-------------|--|
| AC Power Line Conducted Emissions | ±3.11dB | |
| (150kHz~30MHz) | 10.1100 | |
| Radiated Emission(30MHz~1GHz) | ±5.12dB | |
| Radiated Emission(1GHz~6GHz) | ±5.34dB | |



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6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

| Temperature | 26°C |
|----------------------|------------------|
| Relative Humidity | 55% |
| Atmospheric Pressure | 1010mbar |
| Test date : | October 09, 2018 |
| Tested By: | Evans He |

Requirement(s):

| Spec | Item | Requirement Applicable | | | | |
|------------|--|--|---------|---------|--|--|
| 47CFR§15. | a) | For Low-power radio-fr connected to the public voltage that is conducte frequency or frequencie not exceed the limits in [mu] H/50 ohms line im | | | | |
| 107 | | lower limit applies at th | Limit (| | | |
| | | (MHz) | QP | Average | | |
| | | 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | | |
| | | 0.5 ~ 5 | 56 | 46 | | |
| | | 5 ~ 30 | 60 | 50 | | |
| Test Setup | Vertical Ground Reference Plane EUT 80cm | | | | | |
| | | | | | | |
| Procedure | The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains. | | | | | |



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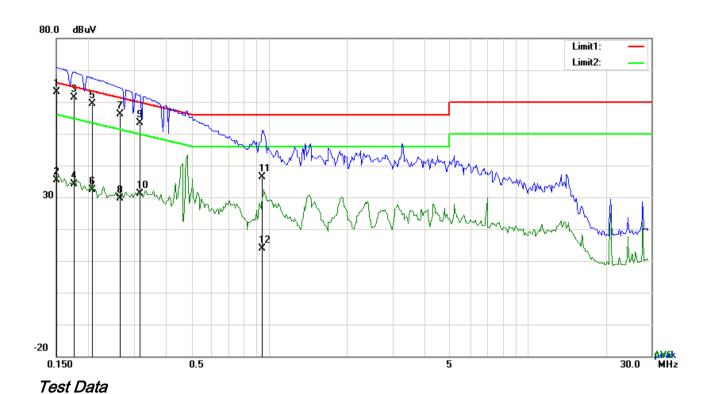
| | 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss |
|-----------|---|
| | coaxial cable. |
| | 4. All other supporting equipment were powered separately from another main supply. |
| | 5. The EUT was switched on and allowed to warm up to its normal operating condition. |
| | 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) |
| | over the required frequency range using an EMI test receiver. |
| | 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the |
| | selected frequencies and the necessary measurements made with a receiver bandwidth |
| | setting of 10 kHz. |
| | 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power). |
| Remark | |
| Result | Pass Fail N/A |
| | |
| Test Data | Yes N/A |

| Test Data | Yes | □ _{N/A} |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ _{N/A} |



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Test Mode: Normal Working Mode



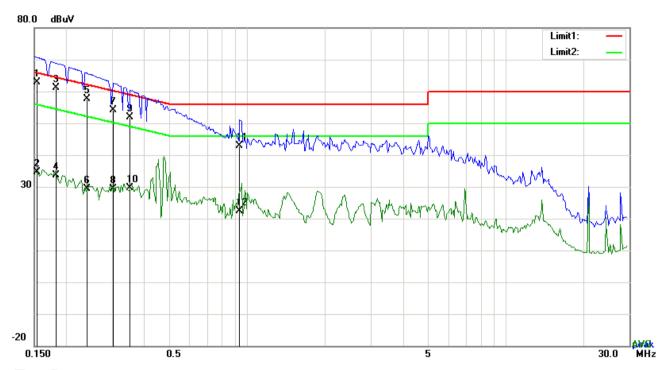
Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) |
| 1 | L1 | 0.1500 | 53.00 | QP | 10.03 | 63.03 | 66.00 | -2.97 |
| 2 | L1 | 0.1500 | 25.38 | AVG | 10.03 | 35.41 | 56.00 | -20.59 |
| 3 | L1 | 0.1758 | 51.41 | QP | 10.03 | 61.44 | 64.68 | -3.24 |
| 4 | L1 | 0.1758 | 24.18 | AVG | 10.03 | 34.21 | 54.68 | -20.47 |
| 5 | L1 | 0.2072 | 49.46 | QP | 10.03 | 59.49 | 63.32 | -3.83 |
| 6 | L1 | 0.2072 | 22.45 | AVG | 10.03 | 32.48 | 53.32 | -20.84 |
| 7 | L1 | 0.2644 | 46.09 | QP | 10.03 | 56.12 | 61.29 | -5.17 |
| 8 | L1 | 0.2644 | 19.65 | AVG | 10.03 | 29.68 | 51.29 | -21.61 |
| 9 | L1 | 0.3177 | 43.40 | QP | 10.03 | 53.43 | 59.77 | -6.34 |
| 10 | L1 | 0.3177 | 21.02 | AVG | 10.03 | 31.05 | 49.77 | -18.72 |
| 11 | L1 | 0.9417 | 26.41 | QP | 10.03 | 36.44 | 56.00 | -19.56 |
| 12 | L1 | 0.9417 | 3.88 | AVG | 10.03 | 13.91 | 46.00 | -32.09 |



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| Test Mode: | Normal Working Mode |
|------------|---------------------|
| | _ |



Test Data

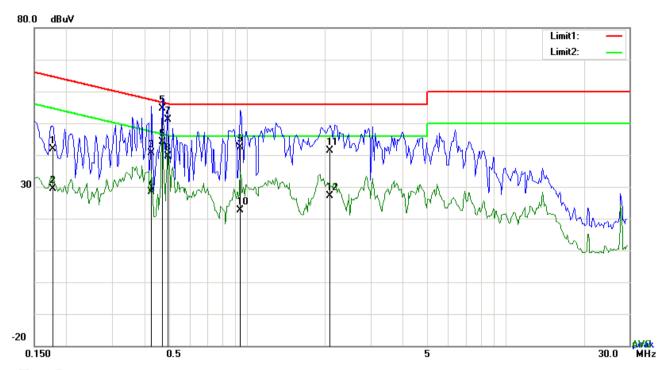
Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) |
| 1 | N | 0.1540 | 52.85 | QP | 10.02 | 62.87 | 65.78 | -2.91 |
| 2 | N | 0.1540 | 24.61 | AVG | 10.02 | 34.63 | 55.78 | -21.15 |
| 3 | N | 0.1825 | 51.06 | QP | 10.02 | 61.08 | 64.37 | -3.29 |
| 4 | N | 0.1825 | 23.52 | AVG | 10.02 | 33.54 | 54.37 | -20.83 |
| 5 | Ν | 0.2404 | 47.52 | QP | 10.02 | 57.54 | 62.08 | -4.54 |
| 6 | Ζ | 0.2404 | 19.39 | AVG | 10.02 | 29.41 | 52.08 | -22.67 |
| 7 | Ζ | 0.3035 | 44.12 | QP | 10.02 | 54.14 | 60.15 | -6.01 |
| 8 | Ζ | 0.3035 | 19.34 | AVG | 10.02 | 29.36 | 50.15 | -20.79 |
| 9 | Ν | 0.3528 | 41.74 | QP | 10.02 | 51.76 | 58.90 | -7.14 |
| 10 | Ν | 0.3528 | 19.63 | AVG | 10.02 | 29.65 | 48.90 | -19.25 |
| 11 | N | 0.9339 | 32.73 | QP | 10.03 | 42.76 | 56.00 | -13.24 |
| 12 | Ν | 0.9339 | 12.26 | AVG | 10.03 | 22.29 | 46.00 | -23.71 |



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Test Mode: Normal Working Mode



Test Data

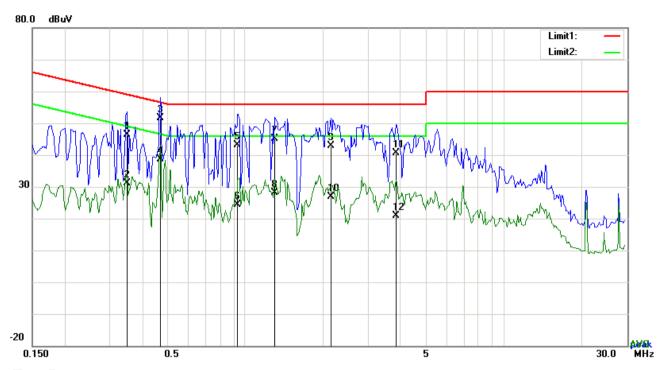
Phase Line Plot at 240Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB) | (dBuV) | (dBuV) | (dB) |
| 1 | L1 | 0.1773 | 31.93 | QP | 10.03 | 41.96 | 64.61 | -22.65 |
| 2 | L1 | 0.1773 | 19.47 | AVG | 10.03 | 29.50 | 54.61 | -25.11 |
| 3 | L1 | 0.4269 | 30.68 | QP | 10.03 | 40.71 | 57.31 | -16.60 |
| 4 | L1 | 0.4269 | 18.29 | AVG | 10.03 | 28.32 | 47.31 | -18.99 |
| 5 | L1 | 0.4698 | 44.49 | QP | 10.03 | 54.52 | 56.52 | -2.00 |
| 6 | L1 | 0.4698 | 33.98 | AVG | 10.03 | 44.01 | 46.52 | -2.51 |
| 7 | L1 | 0.4932 | 41.05 | QP | 10.03 | 51.08 | 56.11 | -5.03 |
| 8 | L1 | 0.4932 | 29.72 | AVG | 10.03 | 39.75 | 46.11 | -6.36 |
| 9 | L1 | 0.9417 | 32.33 | QP | 10.03 | 42.36 | 56.00 | -13.64 |
| 10 | L1 | 0.9417 | 12.68 | AVG | 10.03 | 22.71 | 46.00 | -23.29 |
| 11 | L1 | 2.0961 | 31.41 | QP | 10.04 | 41.45 | 56.00 | -14.55 |
| 12 | L1 | 2.0961 | 17.15 | AVG | 10.04 | 27.19 | 46.00 | -18.81 |



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Test Mode: Normal Working Mode



Test Data

Phase Neutral Plot at 240Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| | | (MHz) | (dBuV) | | (dB) | (dBuV) | (dBuV) | (dB) |
| 1 | N | 0.3489 | 36.35 | QP | 10.02 | 46.37 | 58.99 | -12.62 |
| 2 | N | 0.3489 | 21.07 | AVG | 10.02 | 31.09 | 48.99 | -17.90 |
| 3 | N | 0.4698 | 41.70 | QP | 10.02 | 51.72 | 56.52 | -4.80 |
| 4 | N | 0.4698 | 28.52 | AVG | 10.02 | 38.54 | 46.52 | -7.98 |
| 5 | N | 0.9378 | 32.99 | QP | 10.03 | 43.02 | 56.00 | -12.98 |
| 6 | N | 0.9378 | 14.43 | AVG | 10.03 | 24.46 | 46.00 | -21.54 |
| 7 | N | 1.3005 | 34.99 | QP | 10.03 | 45.02 | 56.00 | -10.98 |
| 8 | N | 1.3005 | 18.02 | AVG | 10.03 | 28.05 | 46.00 | -17.95 |
| 9 | N | 2.1468 | 32.74 | QP | 10.04 | 42.78 | 56.00 | -13.22 |
| 10 | N | 2.1468 | 16.75 | AVG | 10.04 | 26.79 | 46.00 | -19.21 |
| 11 | N | 3.8268 | 30.51 | QP | 10.06 | 40.57 | 56.00 | -15.43 |
| 12 | N | 3.8268 | 10.74 | AVG | 10.06 | 20.80 | 46.00 | -25.20 |



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6.2 Radiated Emissions

| Temperature | 26°C |
|----------------------|------------------|
| Relative Humidity | 55% |
| Atmospheric Pressure | 1010mbar |
| Test date : | October 09, 2018 |
| Tested By : | Evans He |

Requirement(s):

| Spec | Item | Requirement Applicable | | | | |
|------------|--|---|-----------------------|--|--|--|
| 47CFR§15. | a) | Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission the fundamental emission. The tigh edges | ₹ | | | |
| 109(d) | , | Frequency range (MHz) | Field Strength (μV/m) | | | |
| | | 30 - 88 | 100 | | | |
| | | 88 – 216 | 150 | | | |
| | | 216 - 960 | 200 | | | |
| | | Above 960 | 500 | | | |
| Test Setup | | Ant. Tower Support Units Turn Table Ground Plane Test Receiver | | | | |
| Procedure | The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarization (whichever gave the higher emission level) | | | | | |



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| | | over a full rotation of the EUT) was chosen. | | | | |
|-----------|--|--|--|--|--|--|
| 1 | b. | The EUT was then rotated to the direction that gave the maximum | | | | |
| | | emission. | | | | |
| | C. | Finally, the antenna height was adjusted to the height that gave the maximum | | | | |
| | | emission. | | | | |
| | 3. The res | solution bandwidth and video bandwidth of test receiver/spectrum analyzer is | | | | |
| | 120 kH | z for Quasiy Peak detection at frequency below 1GHz. | | | | |
| | 4. The res | olution bandwidth of test receiver/spectrum analyzer is 1MHz and video | | | | |
| | bandwi | dth is 3MHz with Peak detection for Peak measurement at frequency above | | | | |
| | 1GHz. | | | | | |
| | The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the vide | | | | | |
| | bandw | bandwidth with Peak detection for Average Measurement as below at frequency | | | | |
| | above | 1GHz. | | | | |
| | ■ 1 kH | Hz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%) | | | | |
| | 5. Steps 2 | 2 and 3 were repeated for the next frequency point, until all selected frequency | | | | |
| | points | were measured. | | | | |
| Remark | | | | | | |
| Result | Pass | Fail | | | | |
| | | | | | | |
| Test Data | Yes | N/A | | | | |
| Test Plot | Yes (See belo | w) N/A | | | | |

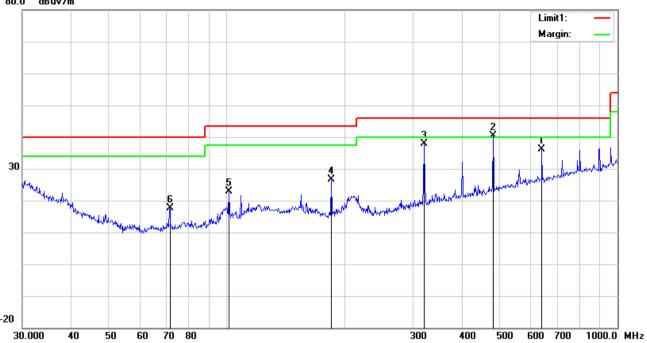


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Test Mode : Normal Working Mode

Below 1GHz





Test Data

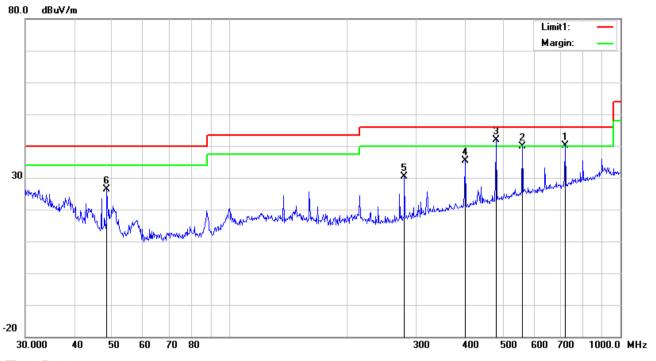
Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Reading | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degree |
|-----|-----|-----------|----------|--------|-------|-------|----------|--------------|--------|--------|--------|
| | | (MHz) | (dBuV/m) | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/ m) | (dB) | (cm) | () |
| 1 | Н | 640.6110 | 35.43 | 19.55 | 21.49 | 2.60 | 36.09 | 46.00 | -9.91 | 100 | 53 |
| 2 | Н | 480.5276 | 42.71 | 17.31 | 21.85 | 2.31 | 40.48 | 46.00 | -5.52 | 100 | 154 |
| 3 | Н | 319.9370 | 44.27 | 14.02 | 22.23 | 1.89 | 37.95 | 46.00 | -8.05 | 100 | 222 |
| 4 | Н | 185.1379 | 36.12 | 11.28 | 22.28 | 1.45 | 26.57 | 43.50 | -16.93 | 100 | 352 |
| 5 | Н | 101.2885 | 33.38 | 10.63 | 22.32 | 1.13 | 22.82 | 43.50 | -20.68 | 100 | 343 |
| 6 | Н | 71.5806 | 31.30 | 7.77 | 22.39 | 0.97 | 17.65 | 40.00 | -22.35 | 100 | 245 |



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Below 1GHz



Test Data

Vertical Polarity Plot @3m

| No. | P/L | Frequency | Reading | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degree |
|-----|-----|-----------|----------|--------|-------|-------|----------|--------------|--------|--------|--------|
| | | (MHz) | (dBuV/m) | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/ m) | (dB) | (cm) | () |
| 1 | > | 721.7259 | 38.32 | 20.46 | 21.31 | 2.68 | 40.15 | 46.00 | -5.85 | 100 | 285 |
| 2 | ٧ | 560.6928 | 40.56 | 18.55 | 21.67 | 2.48 | 39.92 | 46.00 | -6.08 | 200 | 22 |
| 3 | ٧ | 480.5276 | 44.04 | 17.31 | 21.85 | 2.31 | 41.81 | 46.00 | -4.19 | 100 | 277 |
| 4 | ٧ | 400.4319 | 39.75 | 15.71 | 22.01 | 2.01 | 35.46 | 46.00 | -10.54 | 100 | 325 |
| 5 | V | 280.0238 | 38.10 | 12.72 | 22.29 | 1.75 | 30.28 | 46.00 | -15.72 | 100 | 194 |
| 6 | V | 48.5016 | 38.80 | 9.06 | 22.35 | 0.79 | 26.30 | 40.00 | -13.70 | 100 | 132 |



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Above 1GHz

| Frequency | Read_level | Azimuth | Height | Polarity | Level | Factors | Limit | Margin | Detector |
|-----------|------------|---------|--------|----------|----------|---------|----------|--------|----------|
| (MHz) | (dBµV/m) | | (cm) | (H/V) | (dBµV/m) | (dB) | (dBµV/m) | (dB) | (PK/AV) |
| 2017.58 | 67.22 | 1 | 100 | V | -14.42 | 48.43 | 74 | -25.57 | PK |
| 1261.57 | 69.97 | 48 | 100 | V | -19.27 | 48.16 | 74 | -25.84 | PK |
| 2609.37 | 65.54 | 160 | 100 | V | -13.83 | 46.73 | 74 | -27.27 | PK |
| 3601.71 | 64.49 | 10 | 100 | Н | -11.42 | 46.1 | 74 | -27.9 | PK |
| 2803.3 | 63.13 | 190 | 100 | Н | -13.1 | 48.48 | 74 | -25.52 | PK |
| 4082.53 | 61.44 | 343 | 100 | Н | -10.37 | 47.1 | 74 | -26.9 | PK |

Note1: The highest frequency of the EUT is 2462MHz, so the testing has been conformed to 5*2462MHz

=12,310MHz.

Note2: The frequency that above 3GHz is mainly from the environment noise.

 $Note 3:\ The\ AV\ measurement\ performed,\ more\ than\ 20 dB\ below\ limit\ so\ AV\ test\ data\ was\ not\ presented.$



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Annex A. TEST INSTRUMENT

| Instrument | Model | Serial # | Cal Date | Cal Due | | | | |
|-----------------------------|-----------------------------|---------------|------------|------------|--|--|--|--|
| AC Line Conducted Emissions | AC Line Conducted Emissions | | | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 01/05/2018 | 01/04/2019 | | | | |
| Artificial Mains Network | 8127 | 8127713 | 01/05/2018 | 01/04/2019 | | | | |
| ISN | ISN T800 | 34373 | 01/05/2018 | 01/04/2019 | | | | |
| Radiated Emissions | Radiated Emissions | | | | | | | |
| ENAL to at your six on | FOLC | 1300.5001K06- | 04/05/0040 | 04/04/0040 | | | | |
| EMI test receiver | ESL6 | 100262-eQ | 01/05/2018 | 01/04/2019 | | | | |
| Active Antenna | AL-130 | 121031 | 02/08/2018 | 02/07/2019 | | | | |
| 3m Semi-anechoic Chamber | 9m*6m*6m | N/A | 10/18/2018 | 10/17/2019 | | | | |
| Signal Amplifier | 8447E | 443008 | 01/25/2018 | 01/24/2019 | | | | |
| MXA signal analyzer | N9020A | MY49100060 | 01/05/2018 | 01/04/2019 | | | | |
| Horn Antenna | HAH-118 | 71259 | 01/26/2018 | 01/25/2019 | | | | |
| Horn Antenna | HAH-118 | 71283 | 02/02/2018 | 02/01/2019 | | | | |
| AMPLIFIER | EM01G26G | 60613 | 01/25/2018 | 01/24/2019 | | | | |
| AMPLIFIER | Emc012645 | 980077 | 01/05/2018 | 01/04/2019 | | | | |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 02/08/2018 | 02/07/2019 | | | | |

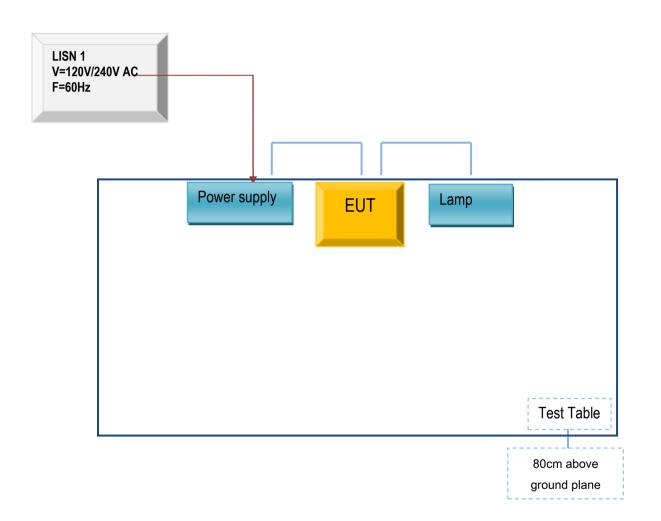


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Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

Annex B.i. TEST SET UP BLOCK

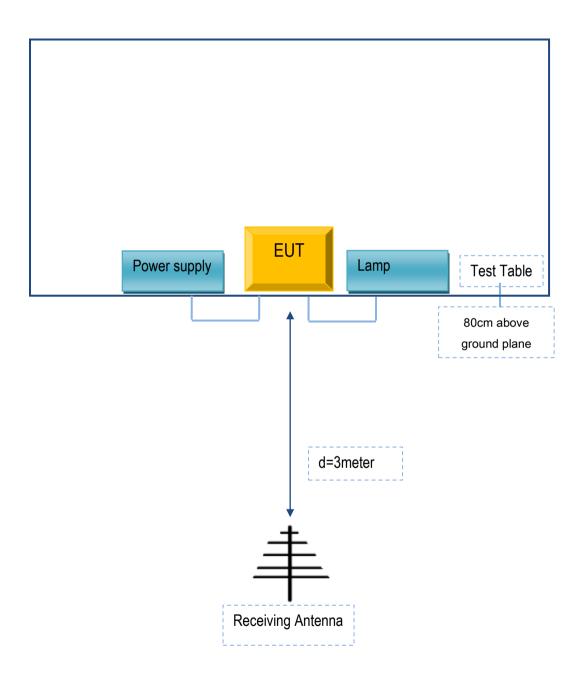
Block Configuration Diagram for AC Line Conducted Emissions





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Block Configuration Diagram for Radiated Emissions





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

| Manufacturer | Equipment Description | Model | Serial No | |
|--------------|--------------------------|-------|-----------|--|
| N/A | Power supply | N/A | N/A | |
| N/A | Lamp | N/A | N/A | |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|--------------|--------------|--------------|--------|-----------|
| Power Cables | Un-shielding | No | 0.5m | N/A |



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Annex C. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



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Annex D. DECLARATION OF SIMILARITY

N/A