# EMC Test Report

Report No.: AGC04158161101EE01

| | | |
|---|---|---|
| **PRODUCT DESIGNATION** | : | Car Charger |
| **BRAND NAME** | : | |
| **MODEL NAME** | : | BM2036 |
| **CLIENT** | : | |
| **DATE OF ISSUE** | : | Dec.02, 2016 |
| **STANDARD(S)** | : | EN 50498:2010 |
| **REPORT VERSION** | : | V1.0 |

Attestation of Global Compliance (Shenzhen) Co., Ltd

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## Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|---|---|---|---|
| V1.0 | / | Dec.02, 2016 | Valid | Original Report |




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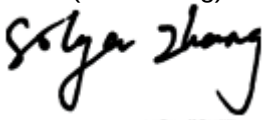
## 1. VERIFICATION OF CONFORMITY

| | |
|---|---|
| **Applicant** | |
| **Address** | |
| **Manufacturer** | |
| **Address** | |
| **Product Designation** | Car Charger |
| **Brand Name** | |
| **Test Model** | BM2036 |
| **Date of test** | Nov.28, 2016 to Dec.01, 2016 |
| **Deviation** | None |
| **Condition of Test Sample** | Normal |
| **Test Result** | Pass |
| **Report Template** | AGCRT-EC-AM/DC(2013-09-01) |

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. For compliance with the requirements set forth in the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.
The test results of this report relate only to the tested sample identified in this report.

Tested By 
Sam Zheng(Zheng Rizan) Dec.02, 2016

Reviewed By 
Stone Zhou(Zhou Dong) Dec.02, 2016

Approved By 
Solger Zhang(Zhang Hongyi) Dec.02, 2016
Authorized Officer

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## 2. SYSTEM DESCRIPTION

| TEST MODE DESCRIPTION | | |
|---|---|---|
| **NO.** | **TEST MODE DESCRIPTION** | **WORST** |
| 1 | Full load for 24V | V |
| 2 | Full load for 12V | -- |

Note:
1) V means EMI worst mode.
2) During test, the battery voltage is 13.5V for 12V, the battery voltage is 27V for 24V.

## 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by ISO.

- Uncertainty of Radiated Emission, Uc = ±3.2 dB





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## 4. PRODUCT INFORMATION

| | |
|---|---|
| **Housing Type** | Plastic and metal |
| **EUT Input Rating** | DC 12V-24V |
| **EUT Output Rating** | DC 5V 3A (Total)<br>DC 5V 2.4A Max (Each Port) |

**I/O Port Information (☒Applicable ☐Not Applicable)**

| I/O Port of EUT | | | |
|---|---|---|---|
| **I/O Port Type** | **Number** | **Cable Description** | **Tested With** |
| DC input port | 1 | -- | 1 |
| USB | 2 | -- | 2 |

**Note**:
1. All the above "--" means that EUT has no cable.
2. All the cables were provided by AGC Lab.

## 5. SUPPORT EQUIPMENT

| Device Type | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable |
|---|---|---|---|---|---|
| Resistor | -- | -- | -- | -- | -- |
| Multimeter | VICTOR | VC9808 | -- | -- | -- |




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## 6. TEST FACILITY

| | |
|---|---|
| **Site** | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| **Location** | B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China |
| **Description** | Test Method according to ISO7637-2:2004 & CISPR 25:2008 |

**TEST EQUIPMENT OF RADIATED EMISSION TEST**

| Equipment | Manufacturer | Model | Cal. Date | Cal. Due |
|---|---|---|---|---|
| TEST RECEIVER | R&S | ESPI | 2016.07.02 | 2017.07.01 |
| V-network | R&S | ESH3-Z6 | 2016.08.25 | 2017.08.24 |
| V-network | R&S | ESH3-Z6 | 2016.08.25 | 2017.08.24 |
| Biconical Antenna | SCHWARZBECK | VHBB 9124 | 2016.03.01 | 2018.02.28 |
| WIDEBAND REQUENCY ANTENNA | SCHWARZBECK | VULB9168 | 2016.03.01 | 2018.02.28 |

**TEST EQUIPMENT OF TRANSIENT EMISSION**

| Equipment | Manufacturer | Model | Cal. Date | Cal. Due |
|---|---|---|---|---|
| Digital Oscilloscope | Yokogawa | DL9140 | 2016.07.02 | 2017.07.01 |
| Switch Simulator | Schaffner | NSG417 | 2016.08.25 | 2017.08.24 |
| V-network | R&S | ESH3-Z6 | 2016.08.25 | 2017.08.24 |

**TEST EQUIPMENT OF TRANSIENT IMMUNITY TEST**

| Description | Manufacturer | Model | Cal. Date | Cal. Due |
|---|---|---|---|---|
| Voltage Drop Simulator | EM Test | VDS 200 | 2016.08.25 | 2017.08.24 |
| Electrical Fast Transient Generator | EM Test | EFT 200 | 2016.08.25 | 2017.08.24 |
| Micropulse Generator | EM Test | MPG 200 | 2016.08.25 | 2017.08.24 |

# 7. RADIATED EMISSION TEST (TEST METHOD ACCORDING TO CISPR 25:2008)

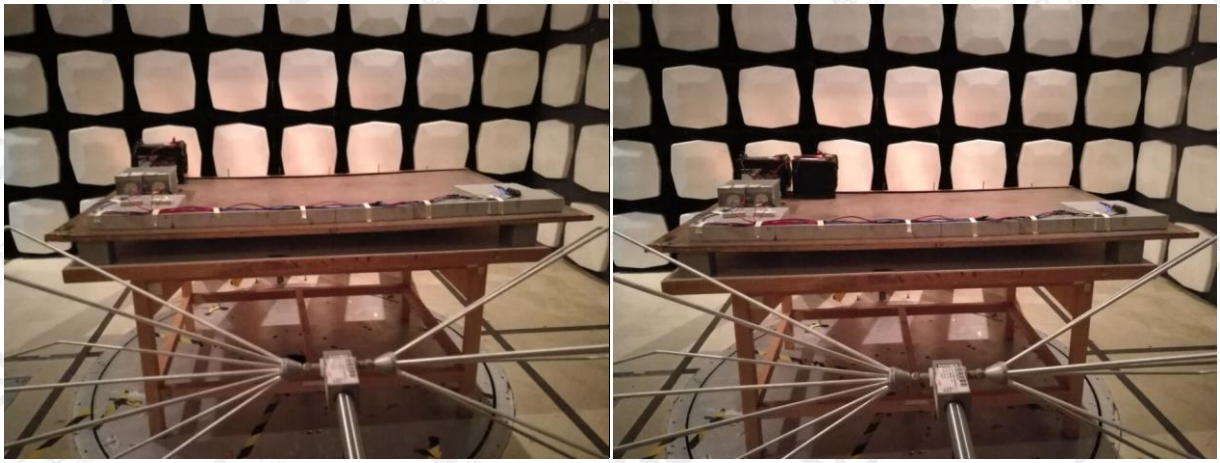
## 7.1 DESCRIPTION OF THE TEST LOCATION

Test location: Semi-anechoic Chamber

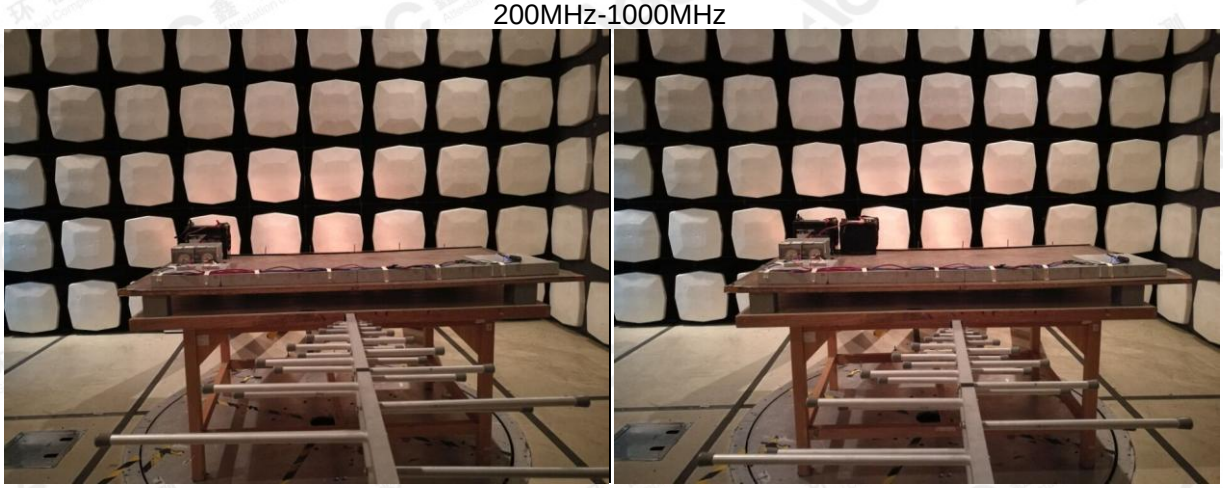
Test distance: 1 meter

## 7.2 PHOTO DOCUMENTATION OF THE TEST SET-UP

30MHz-200MHz



200MHz-1000MHz



Note: (1) The ESA was placed in a height of 5 cm, isolated to the ground plane. There was no connection to the ground plane. The ESA has to be installed isolated from the vehicle ground.

(2) Cables which are longer than 2m have been bundled to a length of 2 m.

## 7.3 TEST SPECIFICATION:

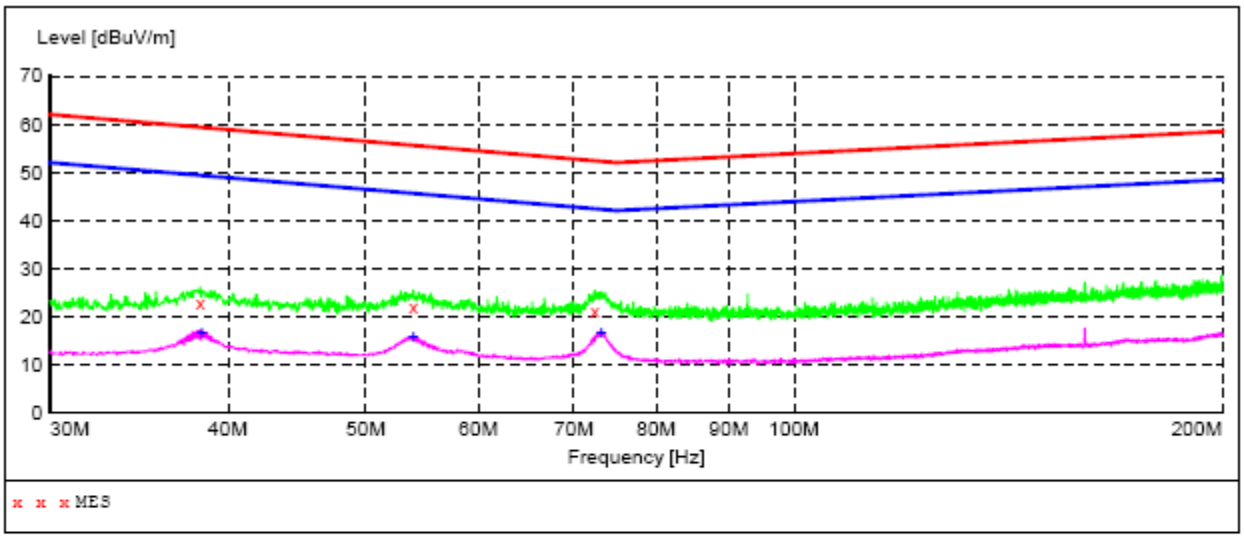
Frequency range: 30MHz – 1000MHz

The test was carried out in the following operation mode(s):

- Full load for $12V_{DC}$
- Full Load for $24V_{DC}$

## 7.4 TEST RESULT

| | | | |
|---|---|---|---|
| Antenna polarisation: | Horizontal | Date: | Nov.30, 2016 |
| Frequency range: | 30MHz-200MHz | Tested by: | Sam |
| Operation mode: | Full load for $12V_{DC}$ | Result: | Pass |



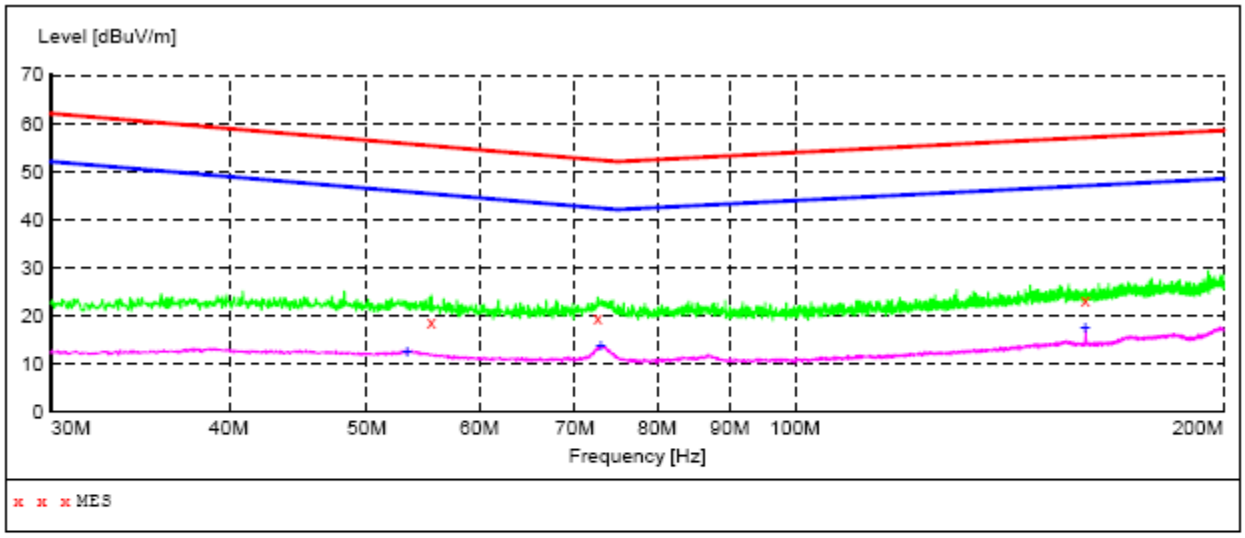

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 38.250000 | 22.70 | 12.5 | 59.3 | 36.6 | QP | H |
| 54.000000 | 21.80 | 12.1 | 55.6 | 33.8 | QP | H |
| 72.450000 | 21.30 | 10.8 | 52.4 | 31.1 | QP | H |

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 38.350000 | 16.70 | 12.5 | 49.3 | 32.6 | AV | H |
| 54.000000 | 15.80 | 12.1 | 45.6 | 29.8 | AV | H |
| 73.200000 | 16.60 | 10.8 | 42.3 | 25.7 | AV | H |

| | | | |
|---|---|---|---|
| Antenna polarisation: | Vertical | Date: | Nov.30, 2016 |
| Frequency range: | 30MHz-200MHz | Tested by: | Sam |
| Operation mode: | Full load for $12V_{DC}$ | Result: | Pass |



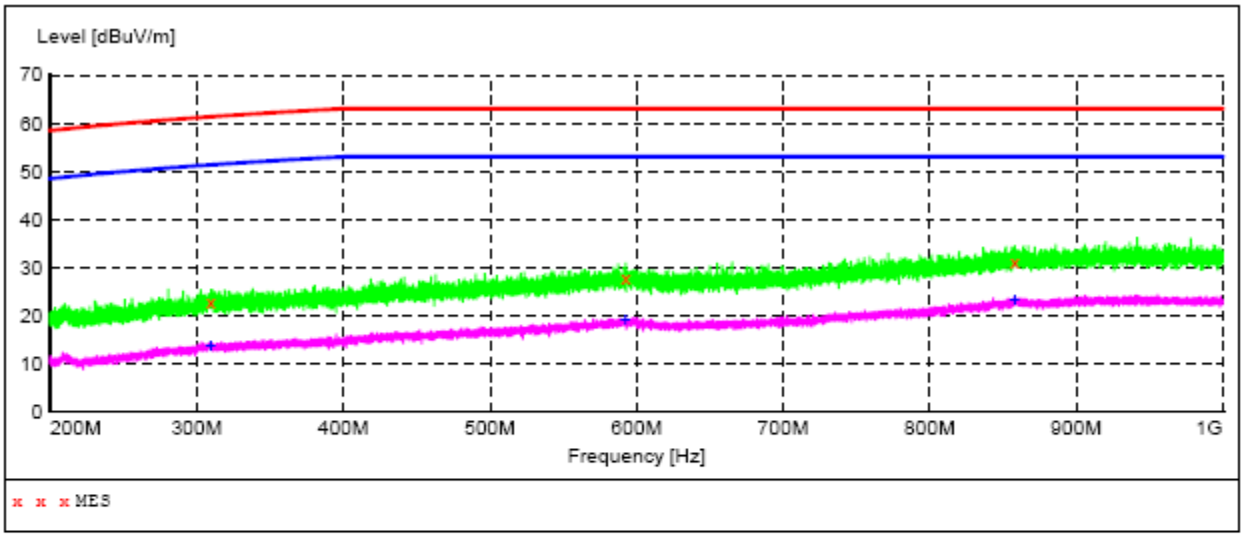

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 55.500000 | 18.60 | 12.0 | 55.3 | 36.7 | QP | V |
| 72.650000 | 19.60 | 10.8 | 52.3 | 32.7 | QP | V |
| 160.000000 | 23.40 | 14.5 | 57.0 | 33.6 | QP | V |

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 53.400000 | 12.50 | 12.1 | 45.7 | 33.2 | AV | V |
| 73.050000 | 13.70 | 10.8 | 42.3 | 28.6 | AV | V |
| 160.000000 | 17.30 | 14.5 | 47.0 | 29.7 | AV | V |

| | | | |
|---|---|---|---|
| Antenna polarisation: | Horizontal | Date: | Nov.30, 2016 |
| Frequency range: | 200MHz-1000MHz | Tested by: | Sam |
| Operation mode: | Full load for $12V_{DC}$ | Result: | Pass |




***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 309.700000 | 22.70 | 15.8 | 61.3 | 38.6 | QP | H |
| 592.700000 | 27.80 | 20.5 | 63.0 | 35.2 | QP | H |
| 857.900000 | 31.30 | 23.7 | 63.0 | 31.7 | QP | H |

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 309.650000 | 13.80 | 15.8 | 51.3 | 37.5 | AV | H |
| 592.450000 | 19.00 | 20.5 | 53.0 | 34.0 | AV | H |
| 858.050000 | 23.40 | 23.7 | 53.0 | 29.6 | AV | H |

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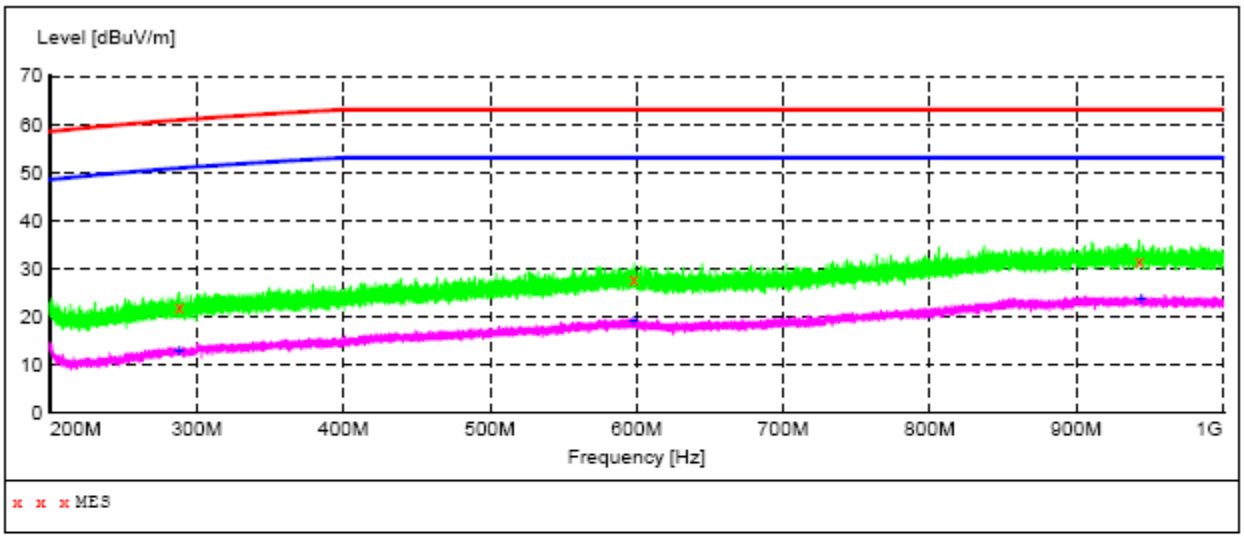
| | | | |
|---|---|---|---|
| Antenna polarisation: | Vertical | Date: | Nov.30, 2016 |
| Frequency range: | 200MHz-1000MHz | Tested by: | Sam |
| Operation mode: | Full load for 12 $V_{DC}$ | Result: | Pass |




***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 288.000000 | 21.80 | 15.5 | 60.8 | 39.0 | QP | V |
| 598.250000 | 27.90 | 20.6 | 63.0 | 35.1 | QP | V |
| 943.050000 | 31.70 | 24.2 | 63.0 | 31.3 | QP | V |

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 288.200000 | 12.90 | 15.5 | 50.8 | 37.9 | AV | V |
| 598.200000 | 19.10 | 20.6 | 53.0 | 33.9 | AV | V |
| 944.500000 | 23.80 | 24.2 | 53.0 | 29.2 | AV | V |

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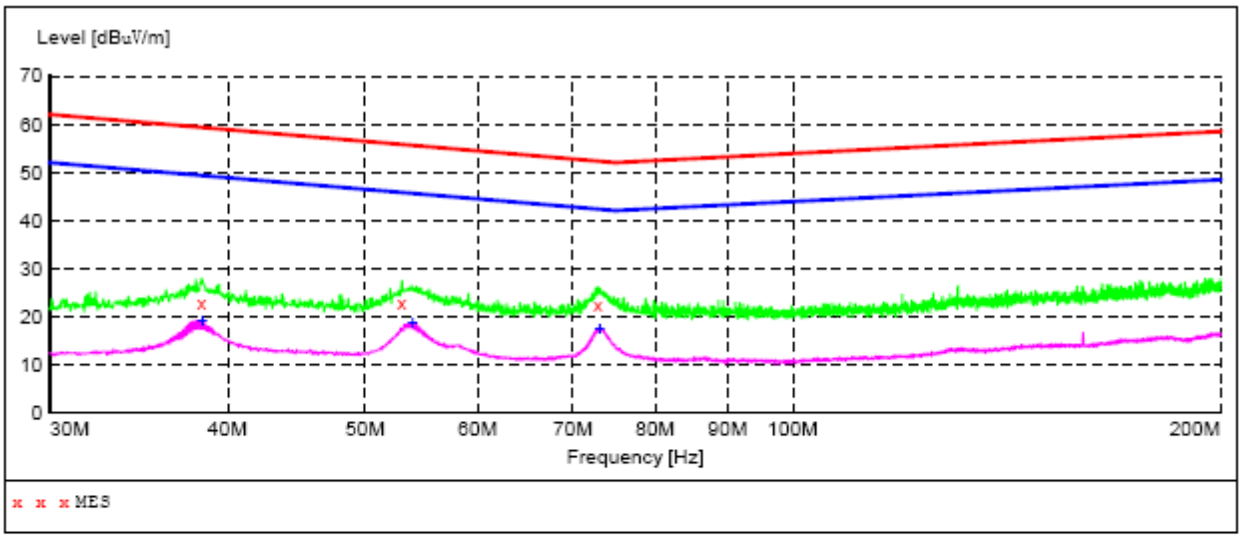
| | | | |
|---|---|---|---|
| Antenna polarisation: | Horizontal | Date: | Nov.30, 2016 |
| Frequency range: | 30MHz-200MHz | Tested by: | Sam |
| Operation mode: | Full load for 24$V_{DC}$ | Result: | Pass |




***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 38.350000 | 23.00 | 12.5 | 59.3 | 36.3 | QP | H |
| 53.050000 | 22.80 | 12.1 | 55.8 | 33.0 | QP | H |
| 72.900000 | 22.60 | 10.8 | 52.3 | 29.7 | QP | H |

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 38.400000 | 19.10 | 12.5 | 49.3 | 30.2 | AV | H |
| 54.000000 | 18.80 | 12.1 | 45.6 | 26.8 | AV | H |
| 73.150000 | 17.60 | 10.8 | 42.3 | 24.7 | AV | H |

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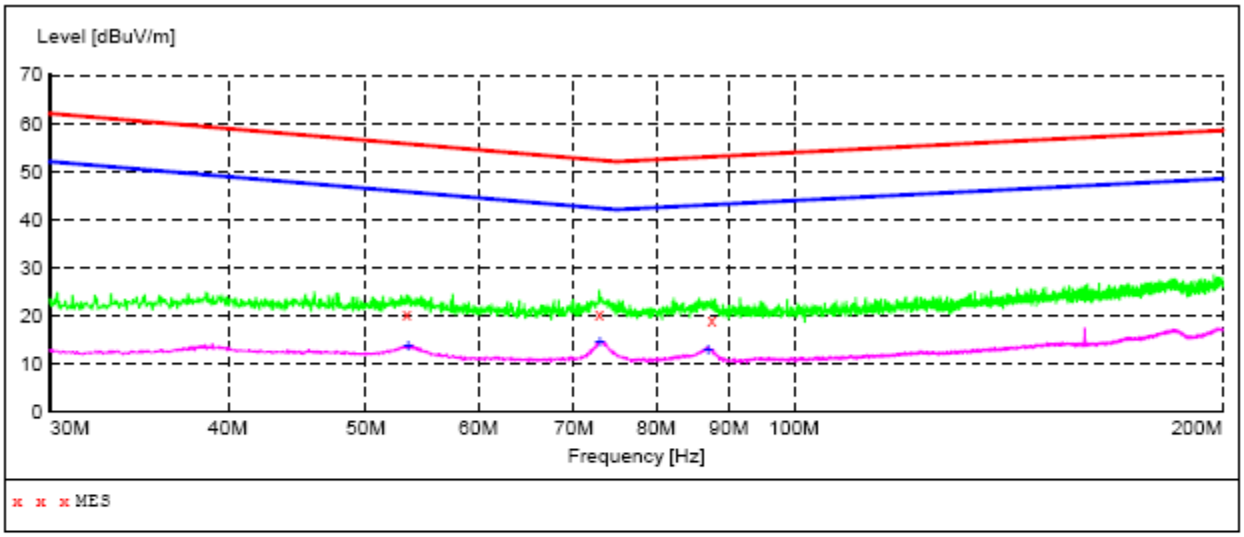
| | | | |
|---|---|---|---|
| Antenna polarisation: | Vertical | Date: | Nov.30, 2016 |
| Frequency range: | 30MHz-200MHz | Tested by: | Sam |
| Operation mode: | Full load for 24$V_{DC}$ | Result: | Pass |




***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 53.400000 | 20.20 | 12.1 | 55.7 | 35.5 | QP | V |
| 72.950000 | 20.20 | 10.8 | 52.3 | 32.1 | QP | V |
| 87.500000 | 19.00 | 11.1 | 53.0 | 34.0 | QP | V |

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 53.550000 | 13.70 | 12.1 | 45.7 | 32.0 | AV | V |
| 73.050000 | 14.50 | 10.8 | 42.3 | 27.8 | AV | V |
| 87.000000 | 13.00 | 11.1 | 43.0 | 30.0 | AV | V |

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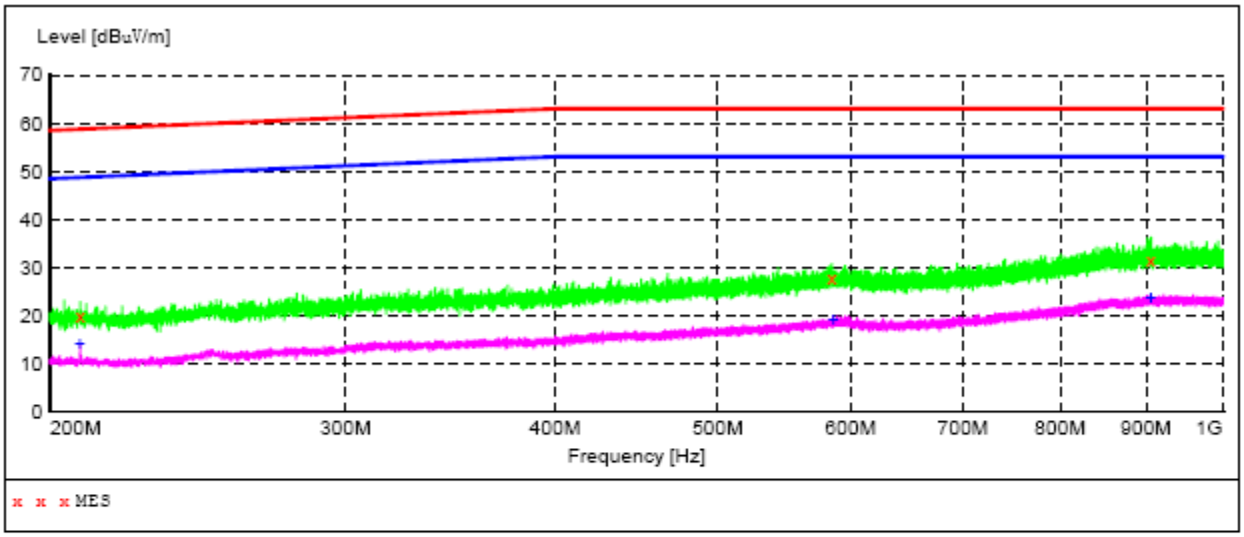
| | | | |
|---|---|---|---|
| Antenna polarisation: | Horizontal | Date: | Nov.30, 2016 |
| Frequency range: | 200MHz-1000MHz | Tested by: | Sam |
| Operation mode: | Full load for 24$V_{DC}$ | Result: | Pass |




***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 208.450000 | 19.80 | 13.4 | 58.7 | 38.9 | QP | H |
| 584.600000 | 27.70 | 20.4 | 63.0 | 35.3 | QP | H |
| 906.100000 | 31.50 | 24.0 | 63.0 | 31.5 | QP | H |

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 208.400000 | 14.10 | 13.4 | 48.7 | 34.6 | AV | H |
| 585.850000 | 18.90 | 20.4 | 53.0 | 34.1 | AV | H |
| 906.100000 | 23.60 | 24.0 | 53.0 | 29.4 | AV | H |

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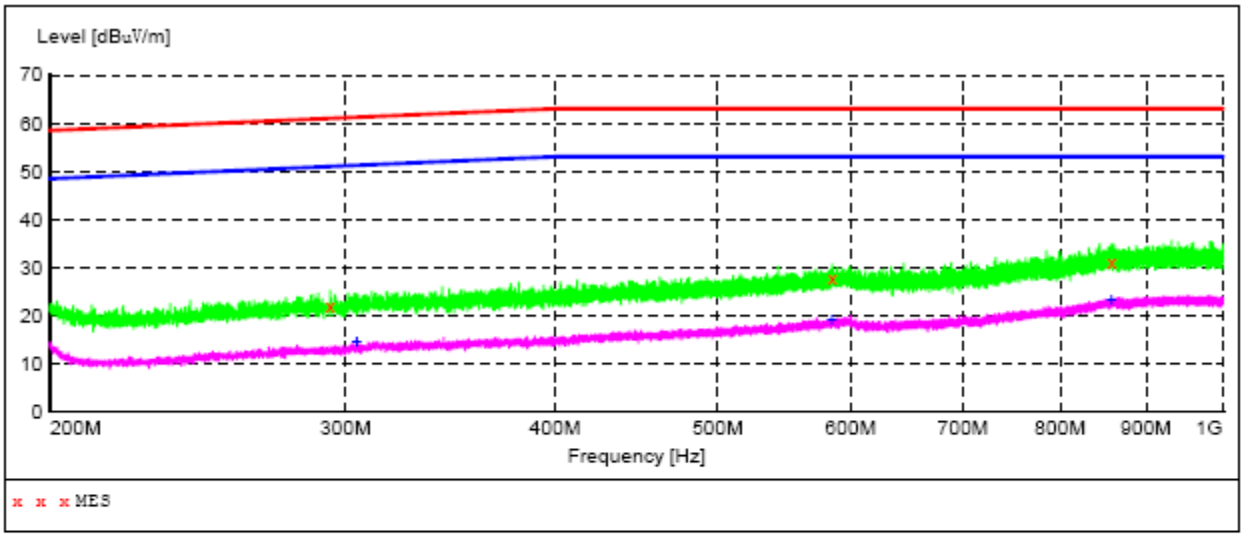
| | | | |
|---|---|---|---|
| Antenna polarisation: | Vertical | Date: | Nov.30, 2016 |
| Frequency range: | 200MHz-1000MHz | Tested by: | Sam |
| Operation mode: | Full load for 24$V_{DC}$ | Result: | Pass |




***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 293.750000 | 21.80 | 15.6 | 61.0 | 39.2 | QP | V |
| 585.150000 | 27.70 | 20.4 | 63.0 | 35.3 | QP | V |
| 858.600000 | 31.20 | 23.7 | 63.0 | 31.8 | QP | V |

***MEASUREMENT RESULT:***

| Frequency | Level | Transd | Limit | Margin | Detector | P |
|---|---|---|---|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dB | | |
| 304.600000 | 14.70 | 15.7 | 51.2 | 36.5 | AV | V |
| 584.550000 | 18.90 | 20.4 | 53.0 | 34.1 | AV | V |
| 858.150000 | 23.40 | 23.7 | 53.0 | 29.6 | AV | V |

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# 8. TRANSIENT EMISSION TEST (TEST METHOD ACCORDING TO 7637-2:2004)

## 8.1 DESCRIPTION OF THE TEST LOCATION

Test location: Shielded room

## 8.2 PHOTO DOCUMENTATION OF THE TEST SET-UP




## 8.3 TEST SPECIFICATION:

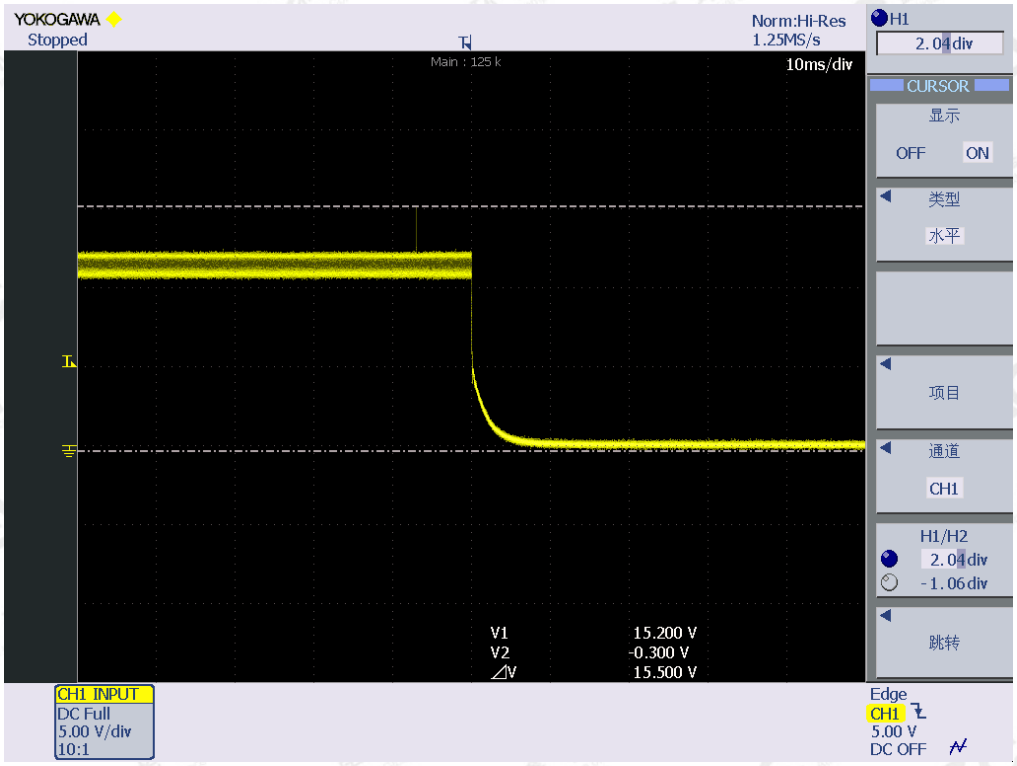
The test was carried out in the following operation mode(s):

- Full load for $12V_{DC}$
- Full load for $24V_{DC}$

## 8.4 TEST RESULT

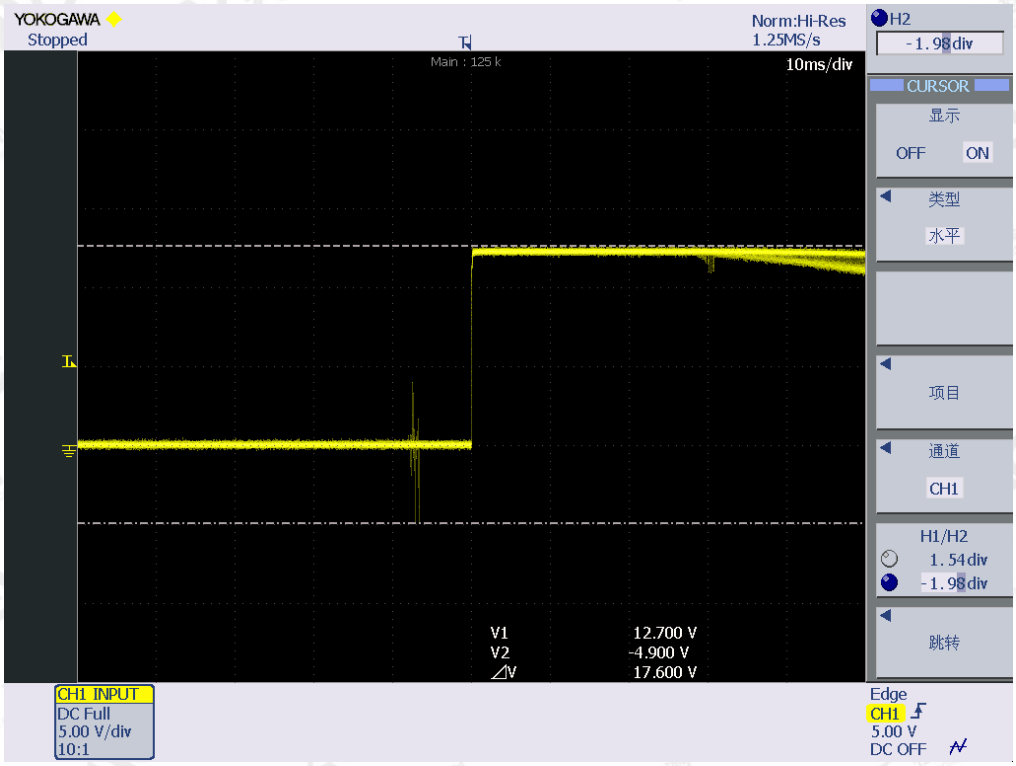
| | | | |
|---|---|---|---|
| Operation mode: | Full load for $12V_{DC}$ | Tested by: | Sam |
| Remarks: | Maximum positive amplitude | Result: | Pass |
| Date: | Dec.01, 2016 | | |

| Pulse type | Limit [V] | Result [V] |
|---|---|---|
| Fast pulses | +75 | +3.20 |



| | | | |
|---|---|---|---|
| Operation mode: | Full load for $12V_{DC}$ | Tested by: | Sam |
| Remarks: | Maximum negative amplitude | Result: | Pass |
| Date: | Dec.01, 2016 | | |

| Pulse type | Limit [V] | Result [V] |
|---|---|---|
| Fast pulses | -100 | -16.90 |







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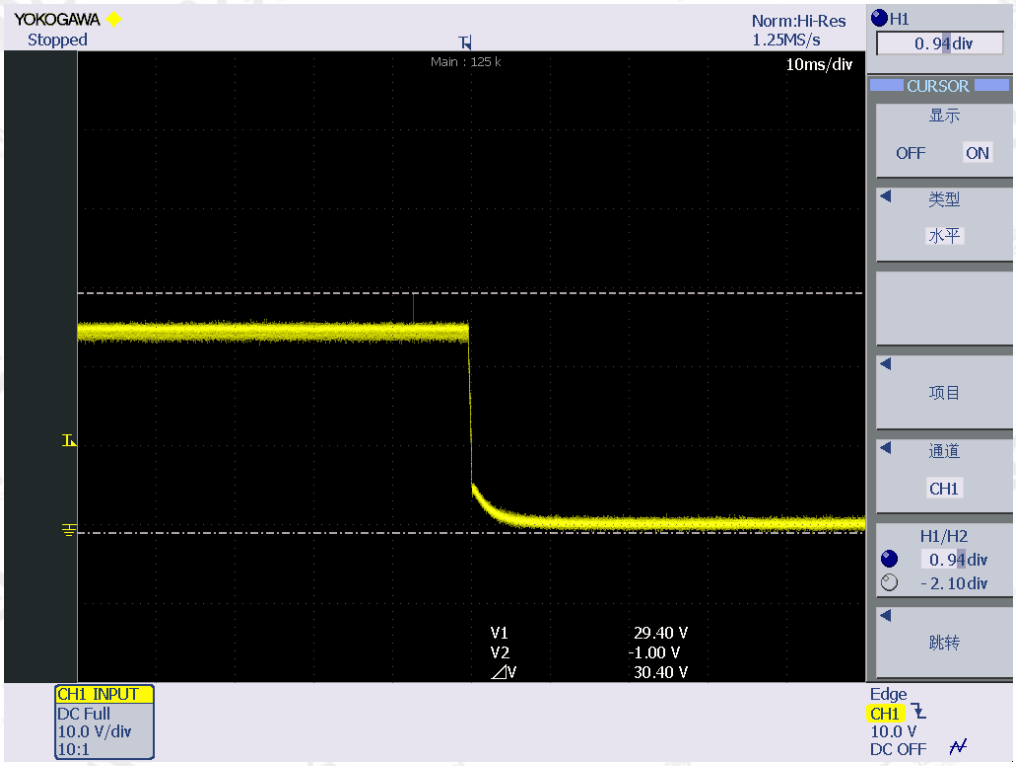
| | | | |
|---|---|---|---|
| Operation mode: | Full load for $24V_{DC}$ | Tested by: | Sam |
| Remarks: | Maximum positive amplitude | Result: | Pass |
| Date: | Dec.01, 2016 | | |

| Pulse type | Limit [V] | Result [V] |
|---|---|---|
| Fast pulses | +150 | +5.40 |





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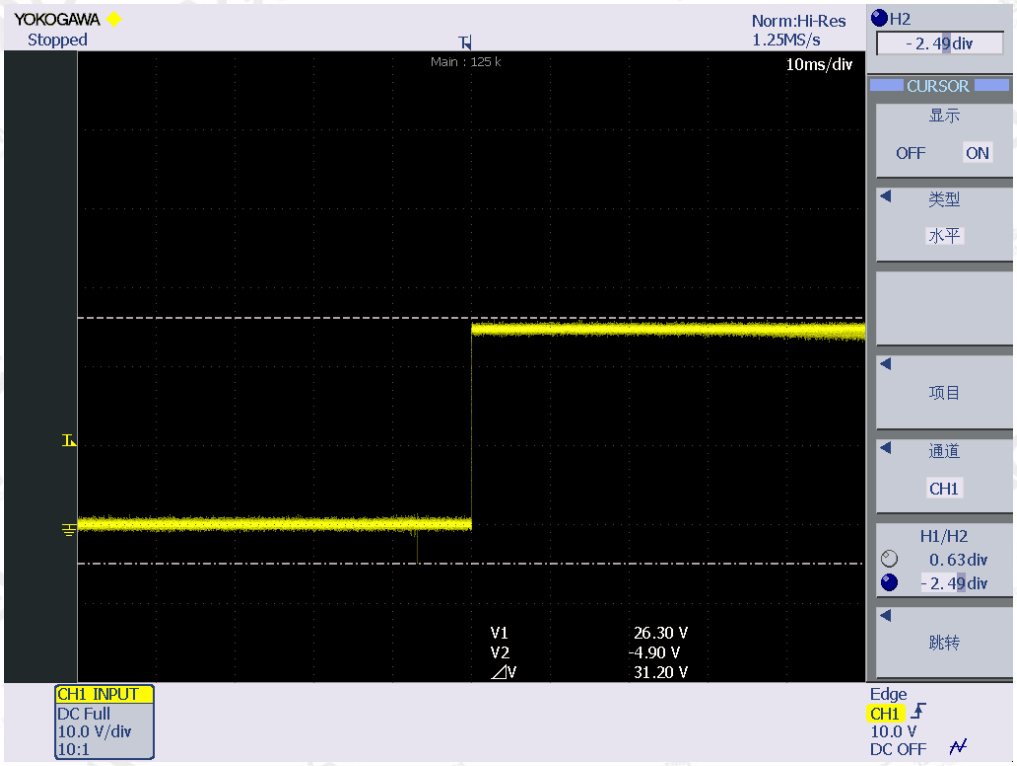
| | | | |
|---|---|---|---|
| Operation mode: | Full load for $24V_{DC}$ | Tested by: | Sam |
| Remarks: | Maximum negative amplitude | Result: | Pass |
| Date: | Dec.01, 2016 | | |

| Pulse type | Limit [V] | Result [V] |
|---|---|---|
| Fast pulses | -450 | -26.90 |



# 9. TRANSIENT IMMUNITY TEST (TEST METHOD ACCORDING TO 7637-2:2004)

## 9.1 DESCRIPTION OF THE TEST LOCATION

Test location: Test Room 2

## 9.2 PHOTO DOCUMENTATION OF THE TEST SET-UP

## 9.3 TEST SPECIFICATION:

| | | |
|---|---|---|
| Pulse 1: | Level: | III |
| | Test level: | -75 V($12V_{DC}$), -450V($24V_{DC}$) |
| | Number of pulses: | 500 |
| Pulse 2a: | Level: | III |
| | Test level: | +37 V($12V_{DC}$), +37V($24V_{DC}$) |
| | Number of pulses: | 500 |
| Pulse 2b: | Level: | III |
| | Test level: | +10 V($12V_{DC}$), +20V($24V_{DC}$) |
| | Number of pulses: | 10 |
| Pulse 3a: | Level: | III |
| | Test level: | -112 V($12V_{DC}$), -150V($24V_{DC}$) |
| | Coupling duration: | 1 h |
| Pulse 3b: | Level: | III |
| | Test level: | +75 V($12V_{DC}$), +150V($24V_{DC}$) |
| | Coupling duration: | 1 h |
| Pulse 4: | Level: | III |
| | Test level: | -6 V($12V_{DC}$), -12V($24V_{DC}$) |
| | Number of pulses: | 1 |
| | | |
| Operation mode: | | - Full load for $12V_{DC}$<br>- Full load for $24V_{DC}$ |

### 9.4 TEST RESULT

| Test pulse number | Test voltage | Number of pulses / duration | Required functional status | Functional status of the systems during the test |
|---|---|---|---|---|
| 1 (12V) | -75 V | 500 | D | **C** |
| 1 (24V) | -450 V | 500 | D | **C** |
| 2a (12V) | +37 V | 500 | D | **A** |
| 2a (24V) | +37 V | 500 | D | **A** |
| 2b (12V) | +10 V | 10 | D | **C** |
| 2b (24V) | +20 V | 10 | D | **C** |
| 3a (12V) | -112 V | 1 h | D | **A** |
| 3a (24V) | -150 V | 1 h | D | **A** |
| 3b (12V) | +75 V | 1 h | D | **A** |
| 3b (24V) | +150 V | 1 h | D | **A** |
| 4 (12V) | -6 V | 1 | D | **A** |
| 4 (24V) | -12 V | 1 | D | **A** |

### 9.5 CLASSIFICATION OF FUNCTIONAL STATUS

| | |
|---|---|
| **Criteria A:** | All functions of a device/system perform as designed during and after exposure to disturbance. |
| **Criteria B:** | All functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A. |
| **Criteria C:** | One or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed. |
| **Criteria D:** | One or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple “operator/use” action. |
| **Criteria E:** | One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system. |

☒***PASS*** ☐***FAIL***

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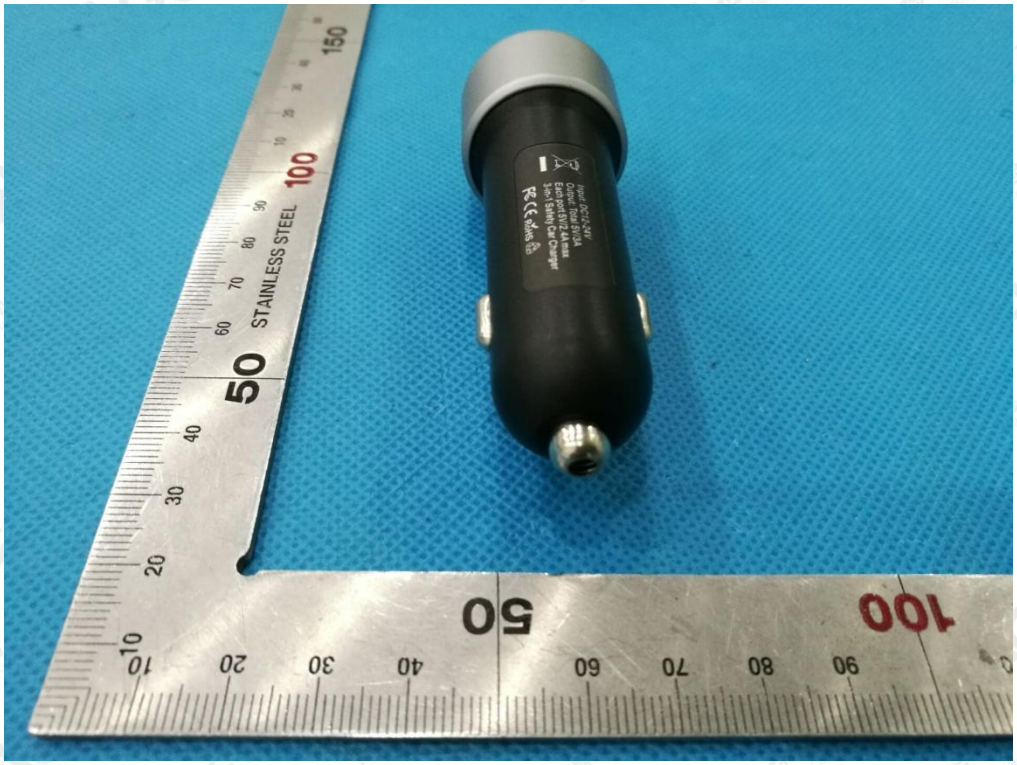
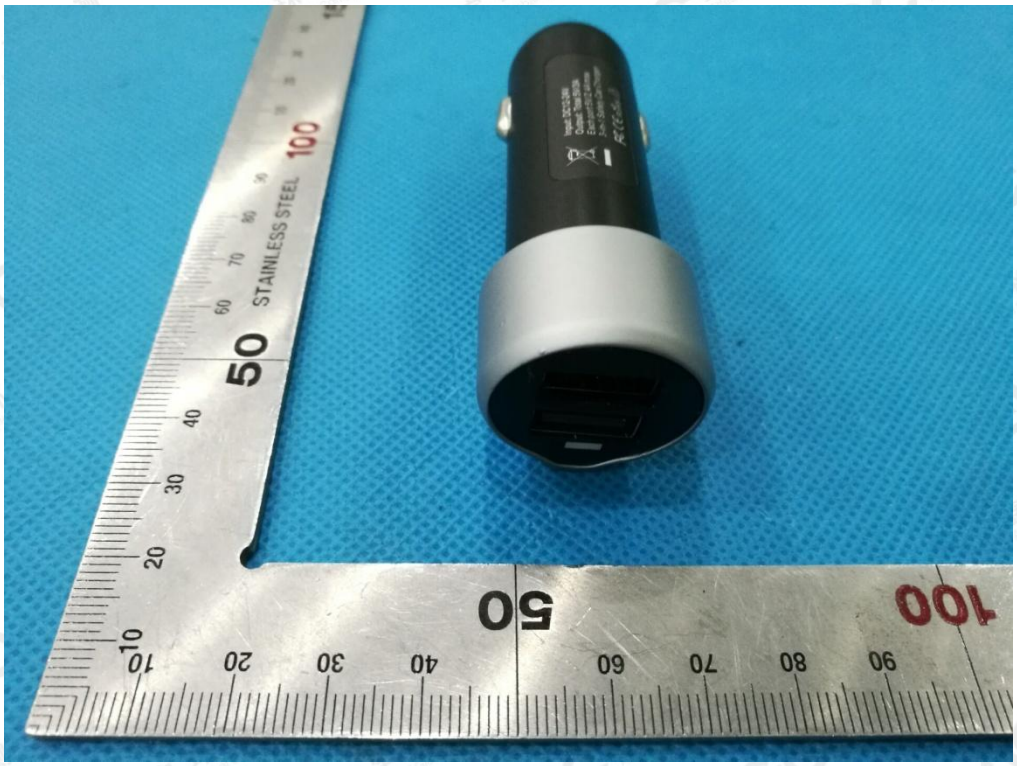
# APPENDIX A: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT




BOTTOM VIEW OF EUT

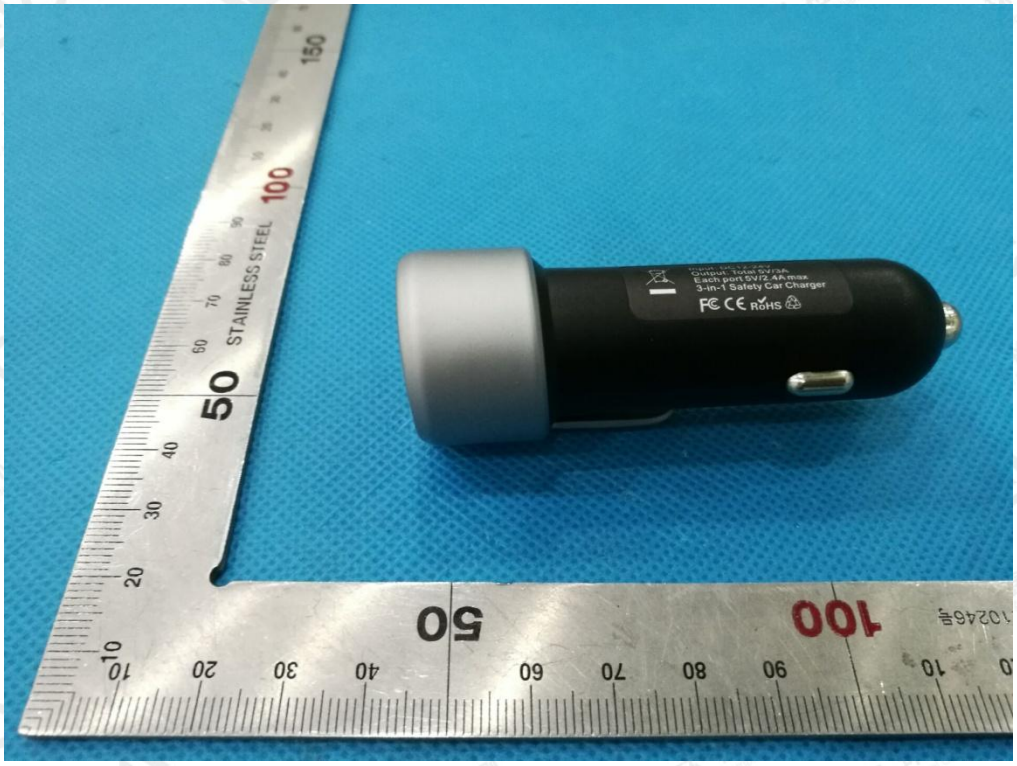


FRONT VIEW OF EUT


BACK VIEW OF EUT

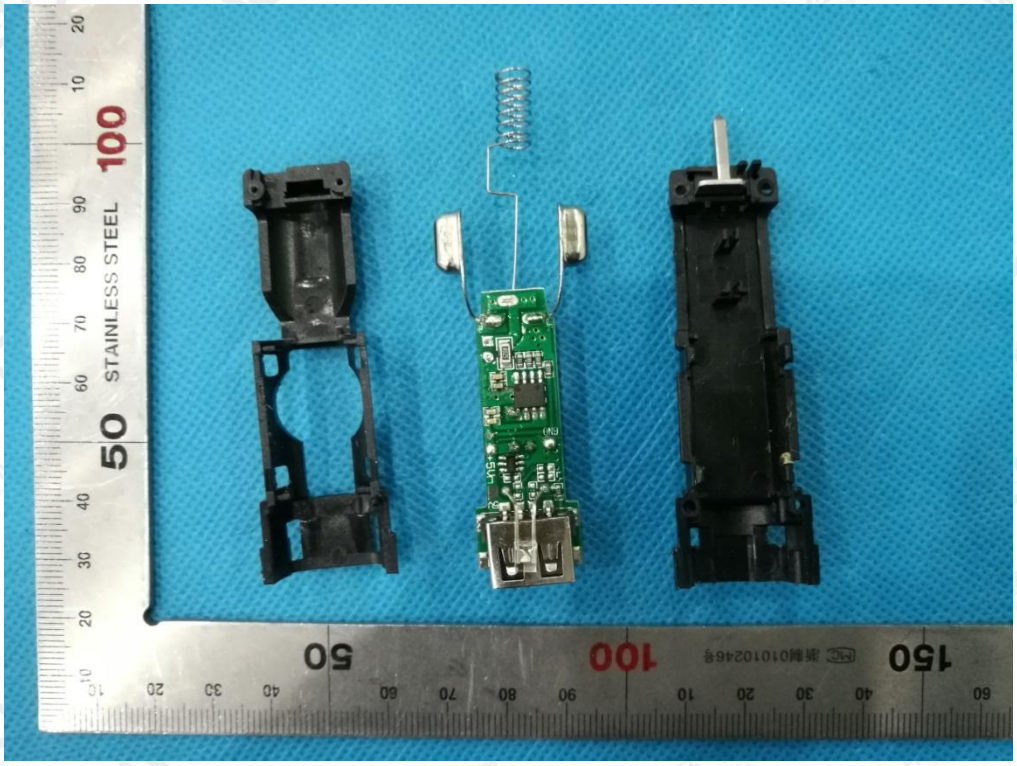
LEFT VIEW OF EUT


RIGHT VIEW OF EUT

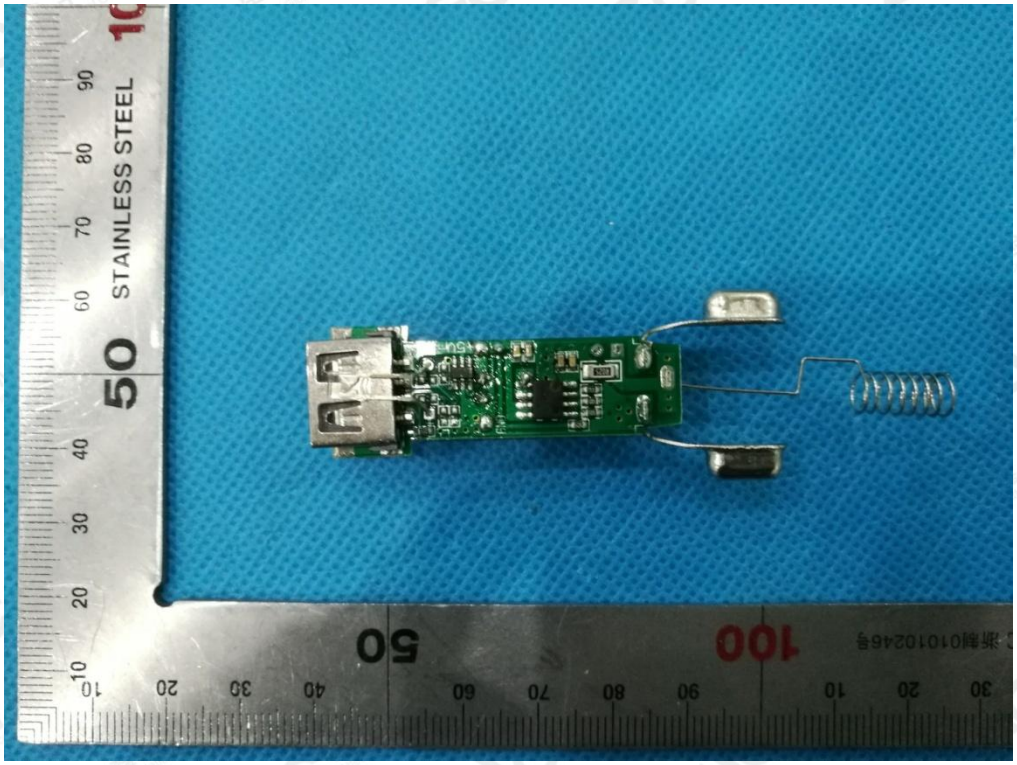


OPEN VIEW OF EUT

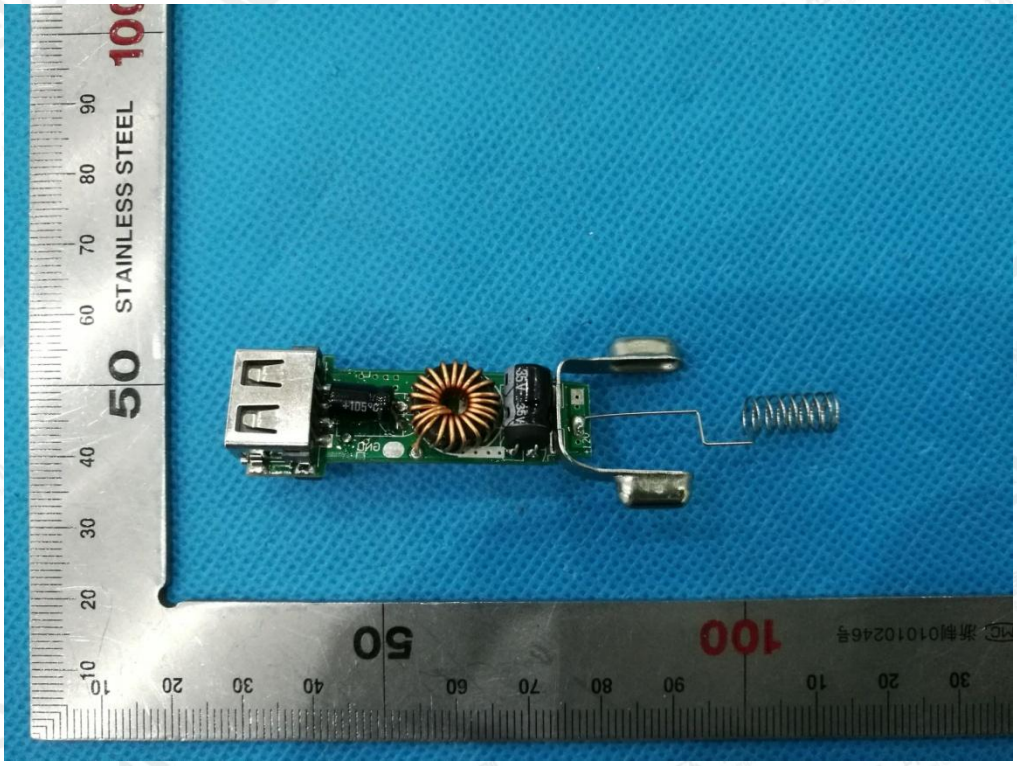

INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2




INTERNAL VIEW OF EUT-3




**----END OF REPORT----**