ESD Immunity Test Report

Contents

[1. Test lab facility 2](#_Toc452709108)

[Test Site: 2](#_Toc452709109)

[Facility name: 2](#_Toc452709110)

[Facility address: 2](#_Toc452709111)

[Facility site description: 2](#_Toc452709112)

[Test Standards 2](#_Toc452709113)

[EMC Directive 2014/30/EU 2](#_Toc452709114)

[Test Equipment: 2](#_Toc452709115)

[Environmental conditions: 2](#_Toc452709116)

[Test Operator and Date: 2](#_Toc452709117)

[2. Product Information 2](#_Toc452709118)

[3. EUT setup 3](#_Toc452709119)

[Photograph of EUT: 3](#_Toc452709120)

[4. Test Result 4](#_Toc452709121)

[5. Summary 5](#_Toc452709122)

# Test lab facility

## Test Site:

Facility name: Keysight Technology, Technology Order Fulfillment, Colorado Springs Hardware Test Center.

Facility address: 1900 Garden of the Gods Rd, Colorado Springs, CO. 80920

Facility site description:

The Keysight Technologies Technology Order Fulfillment Colorado Spring Hardware Test Center is a certified radiated interference testing facility, which is comply with the standard requirements defined by IEC 61326.

## Test Standards

### EMC Directive 2014/30/EU

IEC 61326-1:2012 / EN 61326-1:2013 (Basic) Radiated Emission Reference Standards:

**ESD IEC 61000-4-2, ETM 765.002** Group 1 Class A. The products were tested in a typical configuration with Keysight Technologies test systems. This product is intended for use in a basic electromagnetic environment. ESD

## Test Equipment:

|  |  |
| --- | --- |
| MXE Receiver address | USB0::0x0957::0x0f0b::MY52130013::0::INSTR |
| LISN Model | EMCO 4825/2 |
| LISN SN | SN:00130174 |
| Power Limiter Calibration | 5/1/2016 |
| Test Standard | CISPER 11 Group 1 Class A RE |
| Test Site | Colorado Springs TOF Hardware Test Center 3 Meter anechoic chamber |
| Test Voltage | 110V |

## Environmental conditions:

Temperature: 72°F; Humidity :50 RH

Note: There will be no effect to the result due to changes in mains voltage or frequency.

## Test Operator and Date:

Operator: Clifford; Report generated at: Jun.06,2016 4:26:53 PM

# Product Information

|  |  |
| --- | --- |
| Product Name: | Ursa |
| Product Model: | 16862A |
| Product SN: | 105 |
| Project Stage: | LP1/PP |
| Deliver date of the test samples: | 5/9/2016 |
| DUT power: | Main |
| Auxiliary equipment list: | HP Keyboard and Mouse |
| Model numbers covered by the test: | 16864A, 16862A |
| .-Hardware Difference | 4 channel and 2 channel |
| .-Software/firmware difference: | Same |
| .-Cosmetic difference: | Label is different |
| Test Configuration | Test configuration is acquizaiton mode waiting for trigger |

# EUT setup

## Photograph of EUT:



# Test Result

|  |  |
| --- | --- |
| Contact: 10 single contact discharges (+/-) to select points and to vertical and horizontal coupling plane (4 faces). Contact discharges are not applied to insulated areas. | PC= Performance code:  **A**= Normal, within specific limits  **B**= Temporary degradation, self recoverable.  **C**= Temporary degradation requiring operator intervention.  **D**= Not recoverable **ND**=No Discharge |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Discharge Type | Location | 2KV | 4KV | 6KV | 8KV | Comments: |
| Contact Discharge | Horizontal Plane | A | A | A | A | Pass.-Normal Performanc within specified limits. |
| Contact Discharge | Vertical Plane | A | C | D | A | Pass.-Normal Performanc within specified limits. |
| Contact Discharge | 1 | A | B | B | A | Pass.-Normal Performanc within specified limits. |
| Contact Discharge | 2 | A | B | B | A | Pass.-Normal Performanc within specified limits. |
| Contact Discharge | 3 | A | B | B | A | Pass.-Normal Performanc within specified limits. |
| Contact Discharge | 4 | A | B | B | A | Pass.-Normal Performanc within specified limits. |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Discharge Type | Location | 2KV | 4KV | 6KV | 8KV | 10KV | 12KV | 15KV | Comments: |
| Air Discharge | 5 | A | A | A | A | A | A | A | Pass.-Normal Performanc within specified limits. |
| Air Discharge | 6 | A | A | D | D | A | A | A | Pass.-Normal Performanc within specified limits. |
| Air Discharge | 7 | A | A | D | D | A | A | A | Pass.-Normal Performanc within specified limits. |
| Air Discharge | 8 | A | A | A | A | A | A | A | Pass.-Normal Performanc within specified limits. |

# Summary

The unit Passed the Conducted Emission Test in Line wire!