UPS-EHL01

Temperature/Humidity Test Report

Report NO: 22UP020005

Summary	☑ **Pass**
	    .
	    Comment:_____
	
	□ **Fail**
	    Note : There is/are ___ defect(s) not list in the report, please check it in the DTS Website.

Issue date	Deputy Manager	Test Engineer
2022-04-25	**Louie Lee**	**Clement Chien**

Test item list

Testing Result

Num	Test item list	Result	Remark
1	Temp./humidity power on/off test	Pass	
2	Temperature variation operation test	Pass	
3	Cold start and hot start test	Pass	
4.	Memory test	Pass	

Configuration of EUT

Test Product: UPS-EHL01 A0.1
Sample Configuration & Quantity Under Test:

1. Main Board: UPS-EHL01 / A0.1
2. CPU: Intel Pentium J6426 @2.0GHz
3. BIOS: USEHAM04
4. Memory: On board 16GB
5. USB Dummy Load For Burn In Test

    5.1 USB 2.0

    5.2 USB 3.0
6. Storage: eMMC 128GB
7. Test Software: Windows 10 / Run PassMark Burn In Test 9.0 (1014)
8. Power Supply: AT Power Supply
9. CPU Sink & Fan:
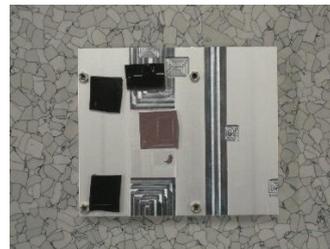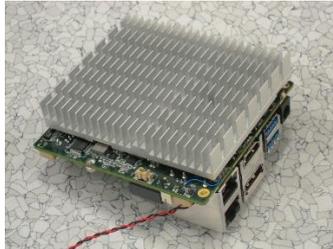
Temp./humidity power on/off test

Test Date: 04-12 ~ 16 -2022

Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-30 Testing procedures
Test Db: Damp Heat Test
Refer to IEC 68-2-1 Testing procedures
Test Ad: Cold Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-D7S-100+L N2

Date of Calibration: 10/01/21
Due date of Calibration: 09/30/22
Serial Number: 3898

Temperature & Humidity Power On/Off Test:

1. Test High Temp./Humidity: 60℃ @90%RH
2. Test Low Temperature: 0℃
3. Test Time: 24Hours / Cycle
4. Test Cycle: 4 Cycles
5. Test Software: Windows Mode / Run Burnin Test Power on/off record Test Tool
6. Test Environment Curve:
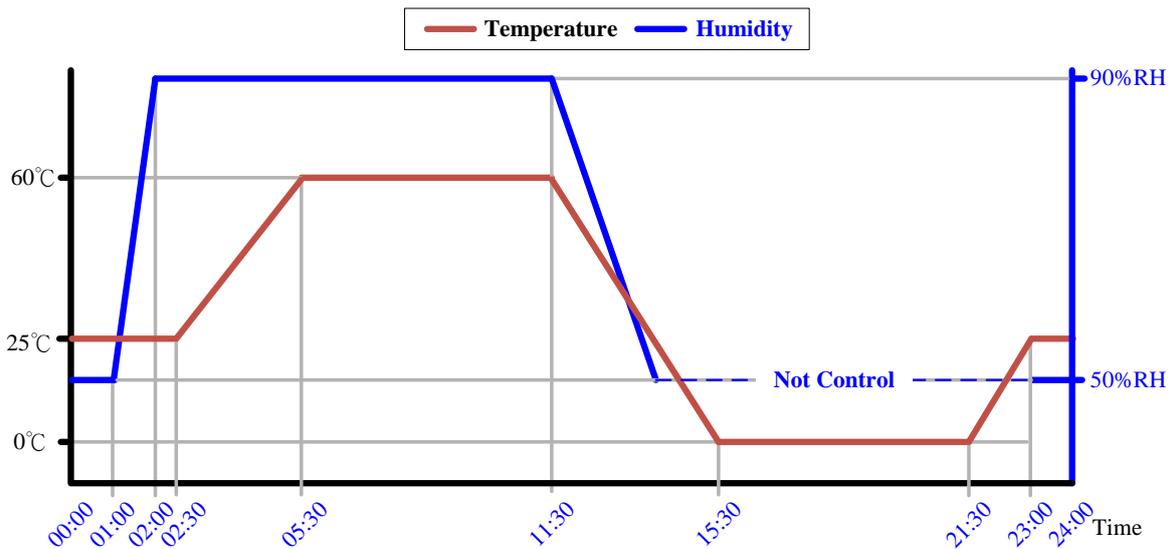
Test Result:

	Actual	Successful	Failure rate	Test Result
Power On/Off	2234/times	2234/times	0 %	Pass

Note: 1. Failure rate need to under 0%.

2. Power on/off fixture setting: on - 150 sec / off - 5 sec

Temperature variation operation test

**Test Date:** 04-17 ~ 18-2022

Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-14 Testing procedures
                    Test N: Change of temperature Test

Test Equipment:

        Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
        Model: THS-D7S-100+L N2

        Date of Calibration: 10/01/21
        Due date of Calibration: 09/30/22
        Serial Number: 3898

Temperature Cycle Test:

      1. Test Low Temperature: 0℃ (1~2 cycles)

                           -5℃ (3rd cycle)

      2. Test High Temperature: 60℃ (1~2 cycles)

                       65℃ (3rd cycle)

      3. Test dwell time: 4Hrs (1~2 cycles)

                 2Hrs (3rd cycle)

      4. Temperature slope: 2℃/min

      5. Test cycle: 3 cycles

      6. Test Software: Windows 10 / Run PassMark Burn In Test V9.0 Pro (1014)

      7. Test Environment Curve:
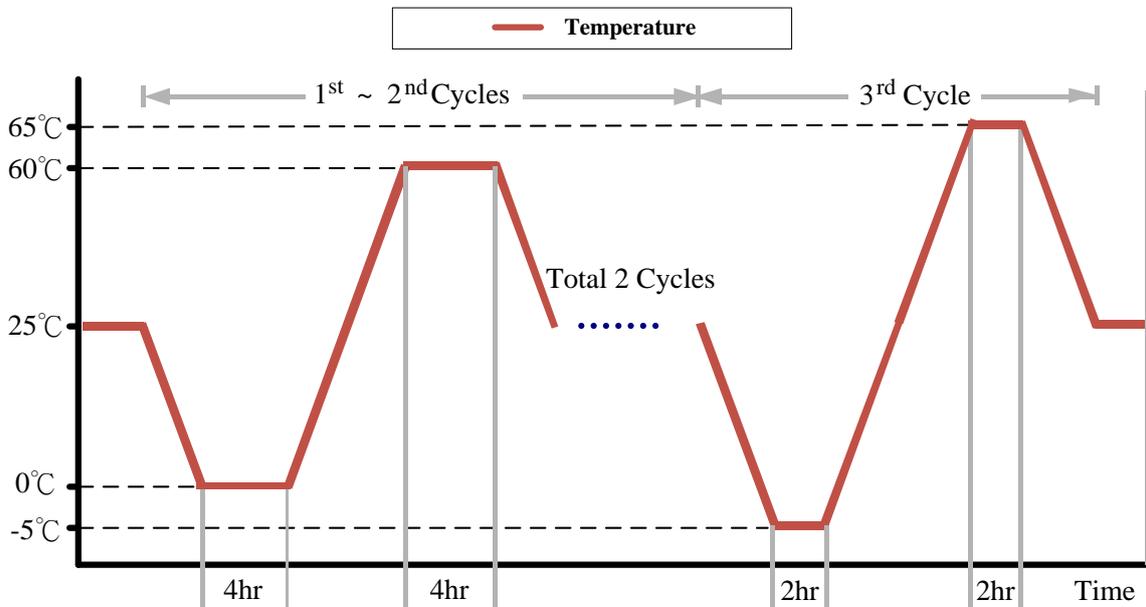
Test Result:

      No issues were found during the temperature variation operation test.

Cold start and hot start test

Test Date: 04-19 ~ 20-2022

Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-14 Testing procedures
                        Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-D7S-100+L N2

Date of Calibration: 10/01/21
Due date of Calibration: 09/30/22
Serial Number: 3898

Test Condition:
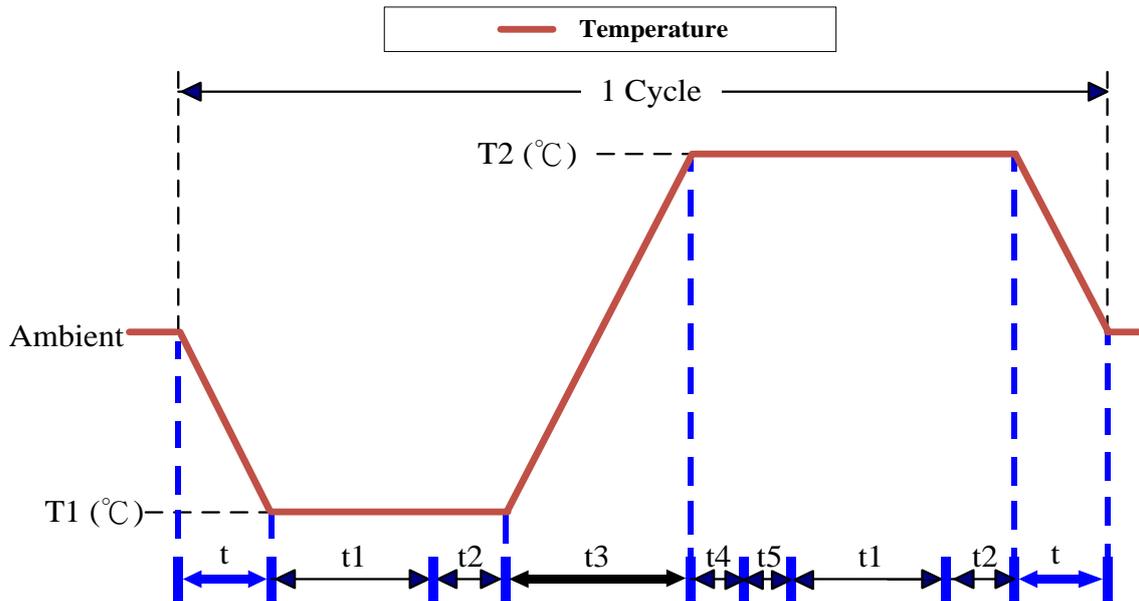
Parameters	Description
T1	-5℃
T2	65℃
t1	4 hrs
t2	1 hrs
t4, t5	30 min
t, t3	2℃/min
n (Cycle)	1

t,t3 = temprature slope
t, t1: Power Off
t2: Power on/off test 5 times (on 2 min / off 10min)
t3,t4: Run PassMark Burn In Test
t5: Windows 10 Software restart test 2 times
Test Software: Windows 10

Test Result:

a. No issues were found during the cold start test.

b. No issues were found during the hot start test.

Memory test

Test Date: 04-21 ~ 22-2022

Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-14 Testing procedures

Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-D7S-100+L N2

Date of Calibration: 10/01/21
Due date of Calibration: 09/30/22
Serial Number: 3898

Temperature Cycle Test:

1. Test Low Temperature: -5℃

2. Test High Temperature: 65℃

3. Test dwell time: 4Hrs

4. Temperature slope: 2~3℃/min

5. Test cycle: 1 cycle

6. Test Software: Run MemTest86 V8.2 Pro

7. Test Environment Curve:
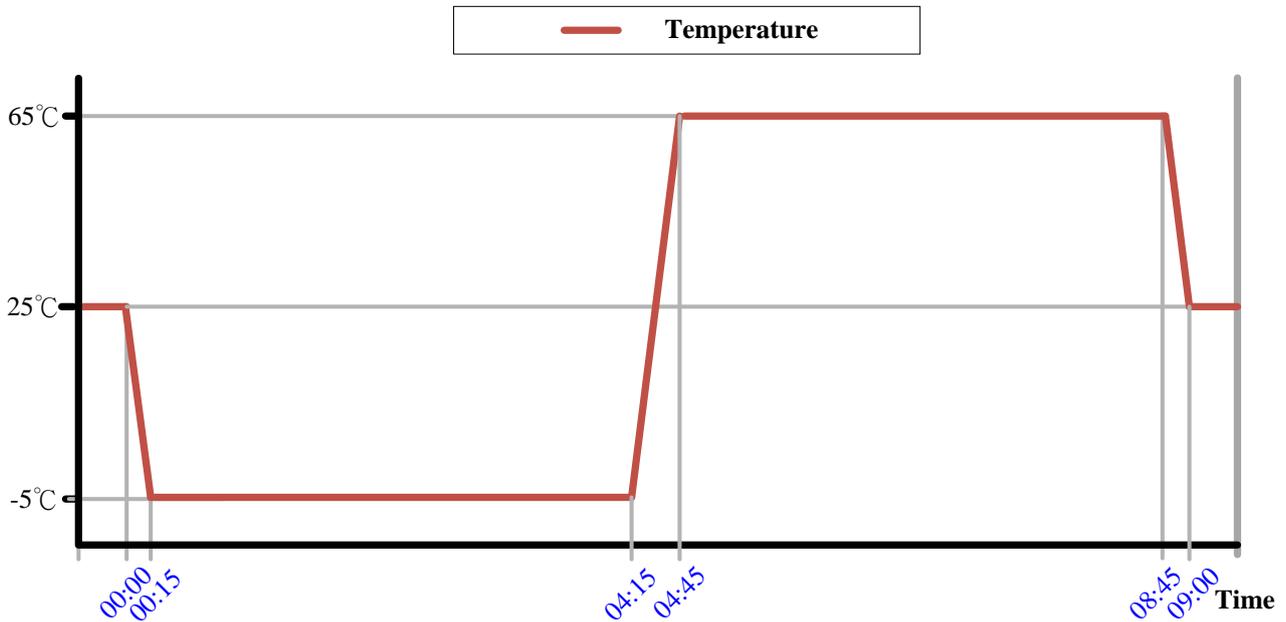
Test Result:

No issues were found during the memory test.