

OMNI-3155-BT

Environment Test Report

Report NO: 16P020005

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____
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Issue date

2016-05-04

QE Manager

KJ Wang

Test Engineer

Rex Chang

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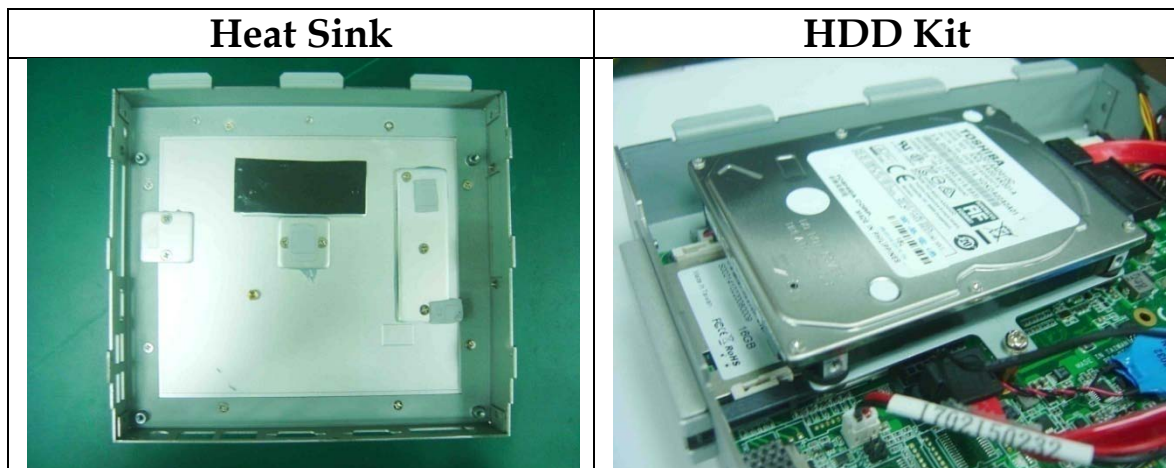
Testing Result

Num	Test item list	Result	Remark
1	Temp./humidity power on/off test	Pass	
2	Temperature cycle operation test	Pass	
3	High temperature storage test	Pass	
4	Low temperature storage test	Pass	
5	Humidity test	Pass	
6	Cold start and hot start test	Pass	

Configuration of EUT

Num	Item	Spec
OMNI-3155-BT		
1	15" TFT LCD	MITSUBISHI.LAC150XA02.1024*768.18&24 Bits 1ch lvds
2	CPU Board	PBA-BT03 Ver. B0.1
3	CPU	Intel® Celeron® Processor J1900 / 2.0GHz
4	BIOS	OMNI SERIES R0.2 (OMBTAM02)(03/03/2016)
5	Wide Temp. Memory	MEMPHIS 8GB / DDR3L 1600 / IM IM4G08D3F ABG-125ITW
6	USB Flash	Transcend 8GB (For DOS Mode Power On/Off Test Only)
7	Wide Temp. 2.5" SATA HDD	OSHIBA MQ01AAD010C / 100GB
8	Wide Temp. CFast	Innodisk 3ME Series 16GB / DECFA-16GD07SW2DC-26
9	Test Software	Windows 8 / Run PassMark Burn In Test 8.1 Pro From HDD
10	Adapter	FSP FSP084-DIBAN2

Photos



Temp./humidity power on/off test

Test Date: 05-03 ~ 04-2016

Test Product: OMNI-3155-BT

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-D7TS-100+LN2
 Date of Calibration: 09/10/15
 Due date of Calibration: 09/09/16
 Serial Number: A0004

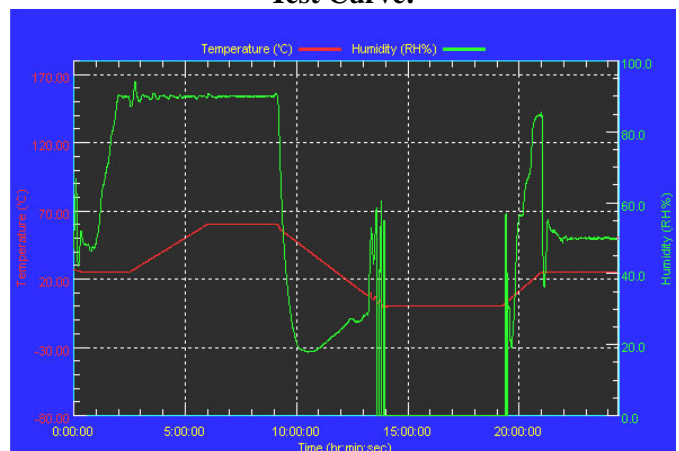
Temperature & Humidity Power On/Off Test:

1. Test High Temp./Humidity: 60°C @90%RH
2. Test Low Temperature: 0°C
3. Test Time: 24Hours / Cycle
4. Test Cycle: 1 Cycles
5. Test Software: DOS Mode / Run Boot Up Record Program ver 1.41

Testing Specification:

Step	Temperature (°C)	Humidity (%RH)	Duration (HH:MM)
1	25	50	00:30
2	25	50	00:30
3	25	90	01:00
4	25	90	00:30
5	60	90	03:30
6	60	90	03:00
7	0	0	04:50
8	0	0	05:23
9	25	50	01:47
10	25	50	03:00

Test Curve:



Test Result:

	Actual	Successful	Failure rate	Test Result
Power On/Off	1002/times	1002/times	0 %	Pass

Note: 1. Failure rate need to under 0%.
 2. Power on/off fixture setting: on - 45 sec / off - 45 sec

Temperature cycle test

Test Date: 04-27 ~ 29-2016

Test Product: OMNI-3155-BT

Test Site: AAEON QE Dept.

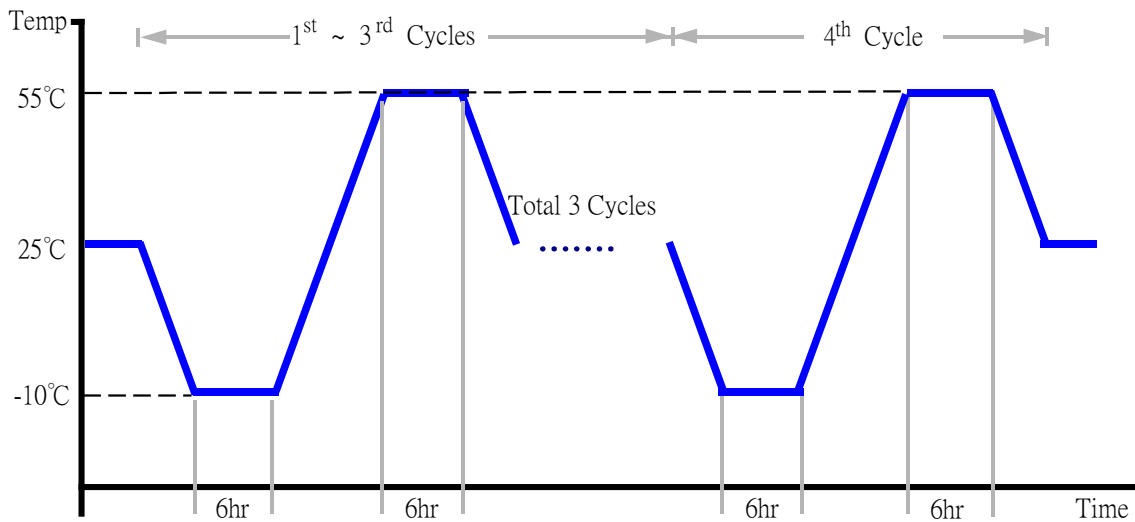
Test Standard: Refer to IEC68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-D7TS-100+LN2
Date of Calibration: 09/10/15
Due date of Calibration: 09/09/16
Serial Number: A0004

Test Condition:

1. Test Low Temperature: -10°C
2. Test High Temperature: 55°C
3. Test dwell time: 6Hrs
4. Temperature slope: 2°C/min
5. Test cycle: 4 cycles
6. Test Software: Windows 8 / Run PassMark Burn In Test 8.1 Pro
7. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (OMNI-3155-BT)

Test Result:

No issues were found during the temperature operation cycle test.

High temperature storage test

Test Date: 04-25 ~ 27-2016

Test Product: OMNI-3155-BT

Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-2 Testing procedures
Test Bb: Dry Heat Test (Non-operation)

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)

Model: THS-D7TS-100+LN2

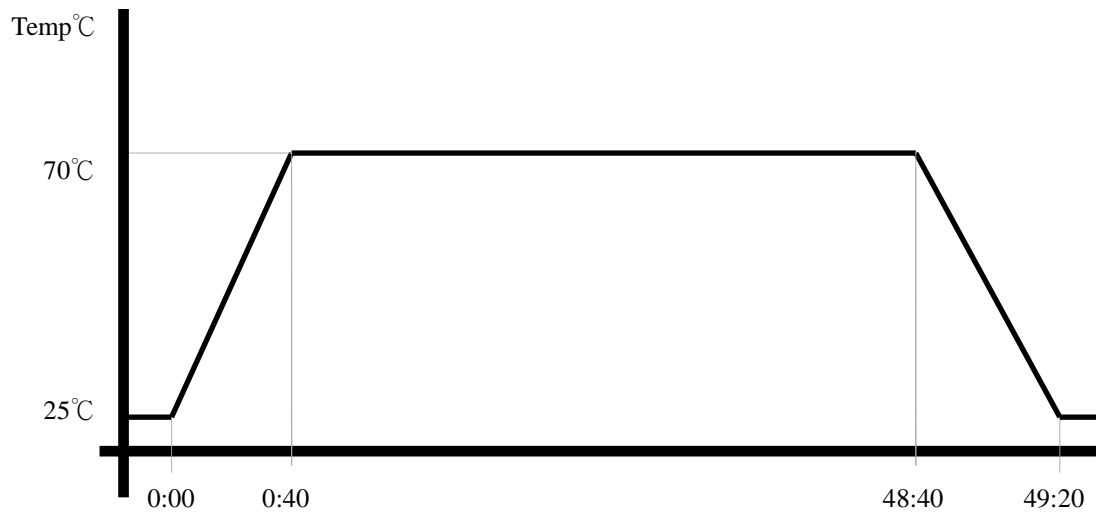
Date of Calibration: 09/10/15

Due date of Calibration: 09/09/16

Serial Number: A0004

Testing Item:

1. Test Temperature: 70°C
2. Test Times: 48Hrs
3. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (OMNI-3155-BT)

Test Result:

No issue was found after the high temperature storage test.

Low temperature storage test

Test Date: 04-20 ~ 22-2016

Test Product: OMNI-3155-BT

Test Site: AAEON QE Dept.

Test Standard: Refer to IEC 68-2-1 Testing procedures
Test Ab: Cold Test (Non-operation)

Test Equipment:

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)
Model: THS-D7TS-100+LN2
Date of Calibration: 09/10/15
Due date of Calibration: 09/09/16
Serial Number: A0004

Testing Item:

1. Test Temperature: -20°C
2. Test Times: 48Hrs
3. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (OMNI-3155-BT)

Test Result:

No issue was found after the low temperature storage test.

Humidity test

Test Date: 04-22 ~ 25-2016

Test Product: OMNI-3155-BT

Test Site: AAEON QE Dept.

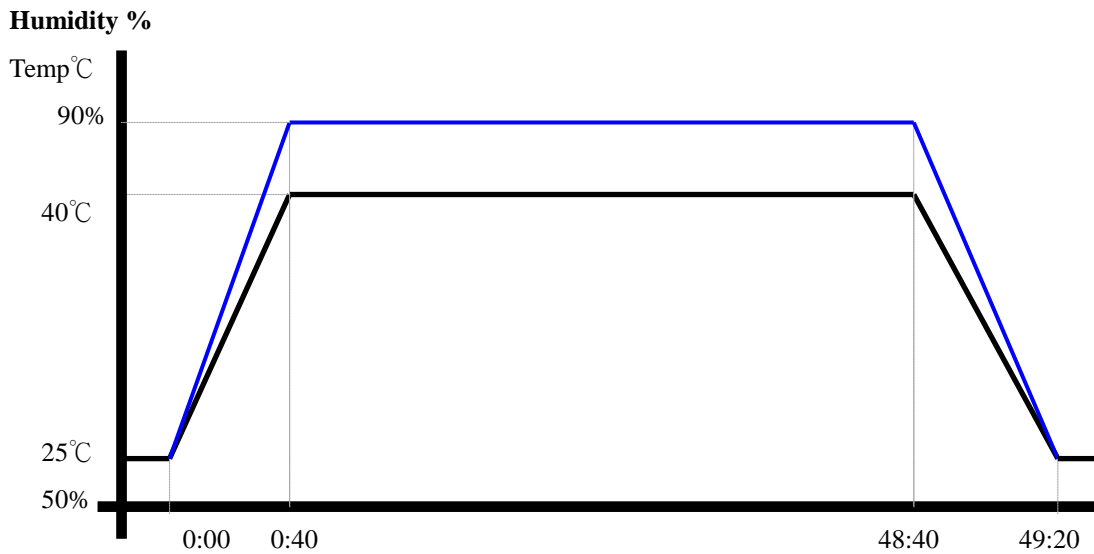
Test Standard: Refer to IEC 68-2-3 Testing procedures
Test Ca: Damp heat, steady state (Non-operation)

Test Equipment:

Programmable Temperature & Humidity Chamber: (K.SON. INS. TECH. CORP.)
Model: THS-D7TS-100+LN2
Date of Calibration: 09/10/15
Due date of Calibration: 09/09/16
Serial Number: A0004

Testing Item:

1. Test Temperature: 40°C
2. Test Humidity: 90%RH
3. Test Times: 48Hrs
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (OMNI-3155-BT)

Test Result:

No issue was found after the humidity storage test.

Cold start and hot start test

Test Date: 05-02~ 03-2016

Test Product: OMNI-3155-BT

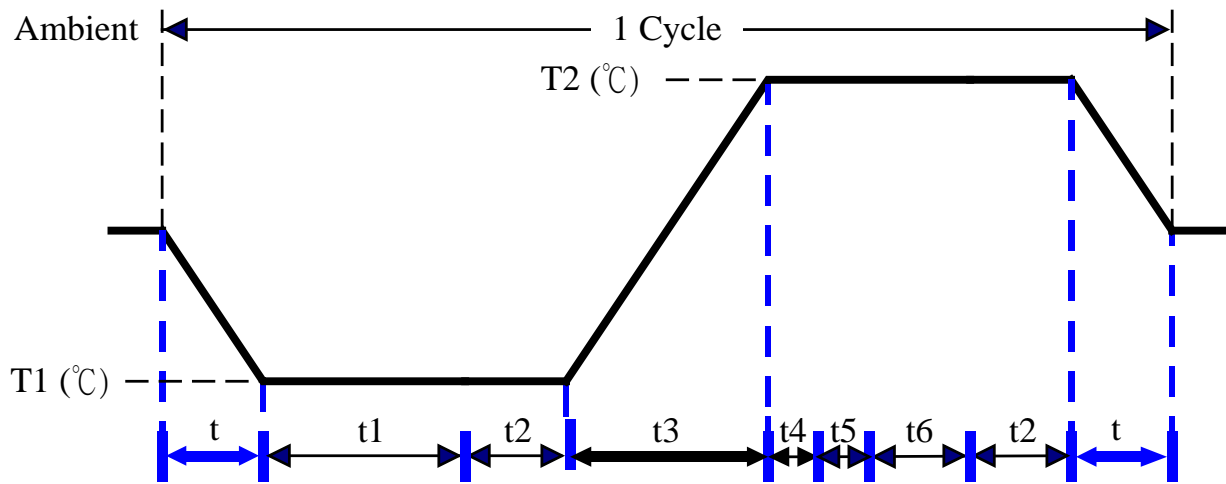
Test Site: AAEON QE Dept.

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-D7TS-100+LN2
Date of Calibration: 09/10/15
Due date of Calibration: 09/09/16
Serial Number: A0004

Test Condition:



Parameters	Description
T1	-10°C
T2	55°C
t1	4 hrs
t2, t6	2 hrs
t4, t5	1hrs
t, t3	2°C/min
n (Cycle)	1

t = temprature slope
t , t1, t6: Power Off
t2: Power on/off test 10 times (on 2 min / off 5min)
t3, t4: Run PassMark Burn In Test
t5: Win 8 Software restart test 2 times
Test Software:Windows 8

Test Result:

- a. No issues were found during the cold start test.
- b. No issues were found during the hot start test.