

VPC-5500S

With 2.5" SATA SSD

Environment Test Report

Report NO: 15I020024



Summary	<p><input type="checkbox"/> Pass</p> <p><input type="checkbox"/> Fail</p> <p><input checked="" type="checkbox"/> Pass with Deviation</p> <p>Comment: <u>Sample shortage thus only 3 EUT for environment test.</u></p>
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Issue date

QE Manager

Test Engineer

2015-12-25

KJ Wang

Rex Chang

Test item list

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Testing Result

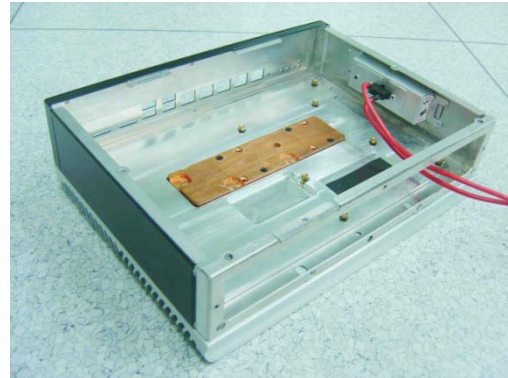
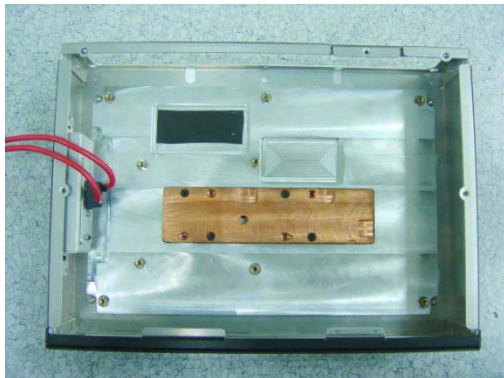
Num	Test item list	Result	Remark
1	Cold start and hot start test	Pass	
2	Low temperature operation test	Pass	
3	Low temperature storage test	Pass	
4	High temperature operation test	Pass	
5	High temperature storage test	Pass	
6	Humidity test	Pass	
7	Variation temperature operation test	Pass	

Configuration of EUT

Sample Define:

Sample No.	S/N	VPC-5500S (PBA-)
Sample 1		C15803383
Sample 2		C15803384
Sample 3		C15803385
Sample 4		N/A

Num	Item	Spec
1.	Main Board:	VPC-5500 A1.0
	1.BIOS	VPC-5500 R1.3 (V0121M13) (06/29/2015)
	2.CPU	Intel Core i7 – 4700EQ / 2.4GHz
	3.Memory	Innodisk 8GB * 2 / DDR3L 1600 / ProMOS V73CBG04808RAJJ11I
2.	Wide Temp. HDD	Transcend 32G / TS32GSSD370I-AA
3.	Test Software	Windows 7 / Run Burn In Test 7.0 Pro
4.	USB Keyboard	KINYO KBX66
5.	USB Mouse	Microsoft Basic Optical Mouse v2.0
6.	Adapter	FSP120-AAB 19V/6.32A 120W



Test Condition:

Item	Testing Method	BurnIn configuration	Sample volume
CPU	PassMark BurnIn Test 7.0 Pro	Loading 100%	4 set
2D Graphic	PassMark BurnIn Test 7.0 Pro	Loading 100%	4 set
3D Graphic	PassMark BurnIn Test 7.0 Pro	Loading 100%	4 set
Memory	PassMark BurnIn Test 7.0 Pro	Loading 100%	4 set
Disk	PassMark BurnIn Test 7.0 Pro	Loading 100%	4 set
Serial Port	PassMark BurnIn Test 7.0 Pro with loop back	Loading 100%	4 set
LAN	PassMark BurnIn Test 7.0 Pro internal loop back	Loading 100%	4 set
Audio	PassMark BurnIn Test 7.0 Pro Sound test	Loading 100%	4 set
USB	USB Keyboard and Mouse	-	4 set

Cold start and hot start test

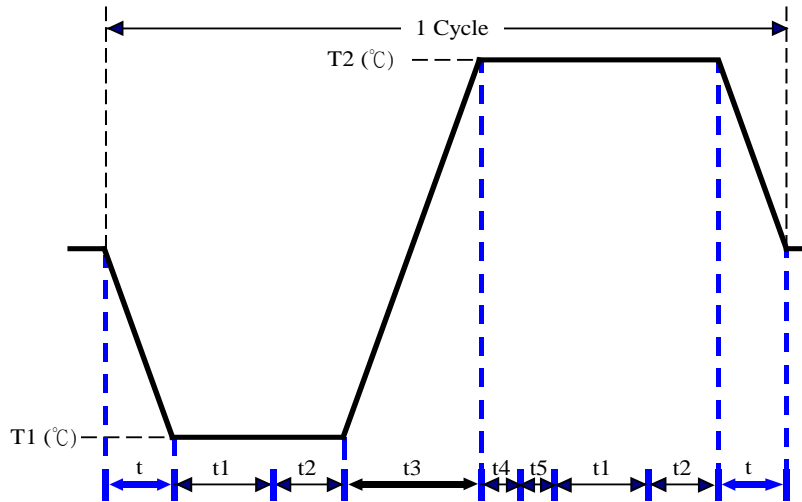
Test Date: 12-09 ~ 10-2015

Test Site: AAEON QE Dept.

Test Standard: Reference 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: 10/08/15
Serial Number: 3898

Test Condition:



Parameters	Description
T1	-25°C
T2	75°C
t1	2 hrs
t2	1.5 hrs
t4, t5	30 min
t, t3	2°C/min
n (Cycle)	1

t,t3 = temprature slope
t, t1: Power Off
t2: Power on/off test 10 times (on 2 min / off 5min)
t3,t4: Run PassMark Burn In Test
t5: Software restart test 2 times
Test Software: Windows 7

Sample Quantity Under Test:

Quantity: 4

Test Result:

Sample No.	Cold Start Test	Hot Start Test	Test Result	Note
Sample 1	Pass	Pass	Pass	
Sample 2	Pass	Pass	Pass	
Sample 3	Pass	Pass	Pass	
Sample 4	-	-	-	

Note: 3 of 4 set need pass testing.

Low temperature operation test

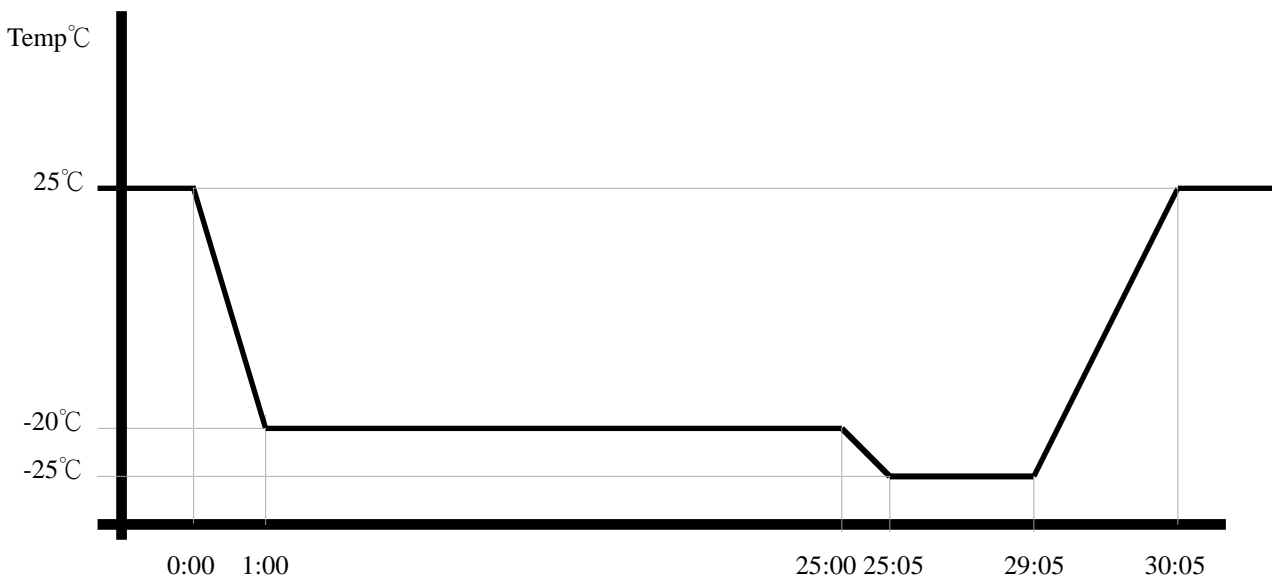
Test Date: 12-10 ~ 11-2015

Test Site: AAEON QE Dept.

Test Standard: Reference 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: 10/08/15
Serial Number: 3898

- Test Condition:**
1. Test Temperature: -20°C, -25°C
 2. Test Times: -20°C/24Hrs; -25°C/4Hrs
 3. Test Software: Windows 7 / Run PassMark Burn In Test 7.0 Pro
 4. Test Environment Curve:



Sample Quantity Under Test:
Quantity: 4

Test Result:

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	-	

Note: 3 of 4 set need pass testing.

Low temperature storage test

Test Date: 12-11 ~ 14-2015

Test Site: AAEON QE Dept.

Test Standard: Reference 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: 10/08/15
Serial Number: 3898

- Test Condition:**
1. Test Temperature: -40°C
 2. Test Times: -40°C / 96Hrs
 3. Test Environment Curve:



Sample Quantity Under Test:
Quantity: 4

Test Result:

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	-	

Note: 3 of 4 set need pass testing.

High temperature operation test

Test Date: 12-15 ~ 16-2015

Test Site: AAEON QE Dept.

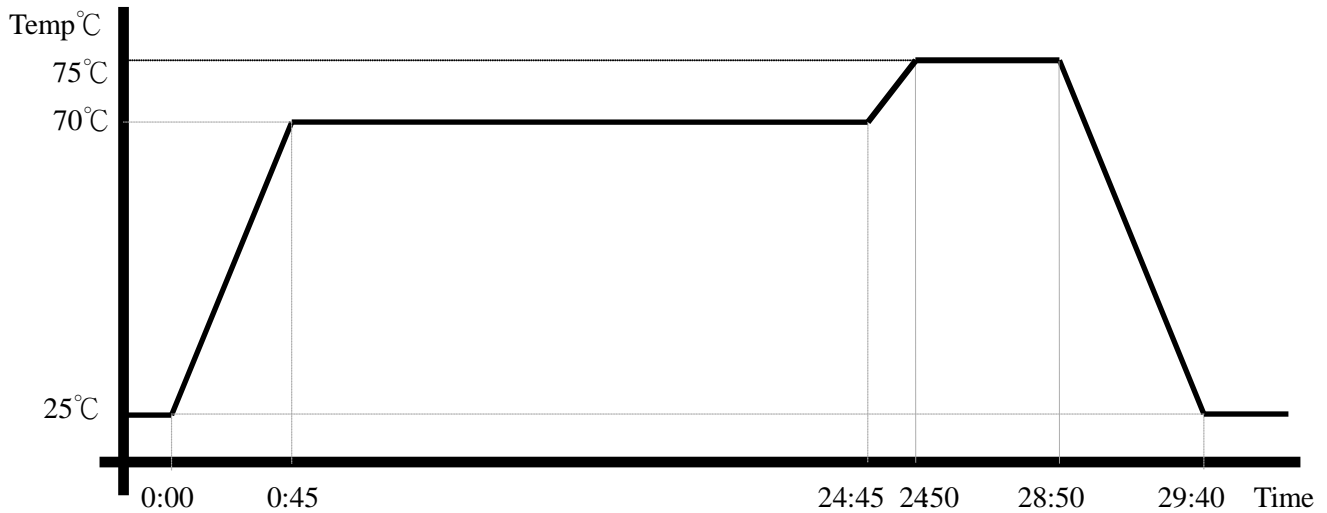
Test Standard: Reference IEC 68-2-2 Testing procedures
Test Bd: Dry Heat Test

Test Equipment:

Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)
Model: THS-D7S-100+L N2
Date of Calibration: 10/08/15
Serial Number: 3898

Test Condition:

1. Test Temperature: 70°C, 75°C
2. Test Times: 70°C/24Hrs; 75°C/4Hrs
3. Test Software: Windows 7 / Run PassMark Burn In Test 7.0 Pro
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 4

Test Result:

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	-	

Note: 3 of 4 set need pass testing.

High temperature storage test

Test Date: 12-16 ~ 18-2015

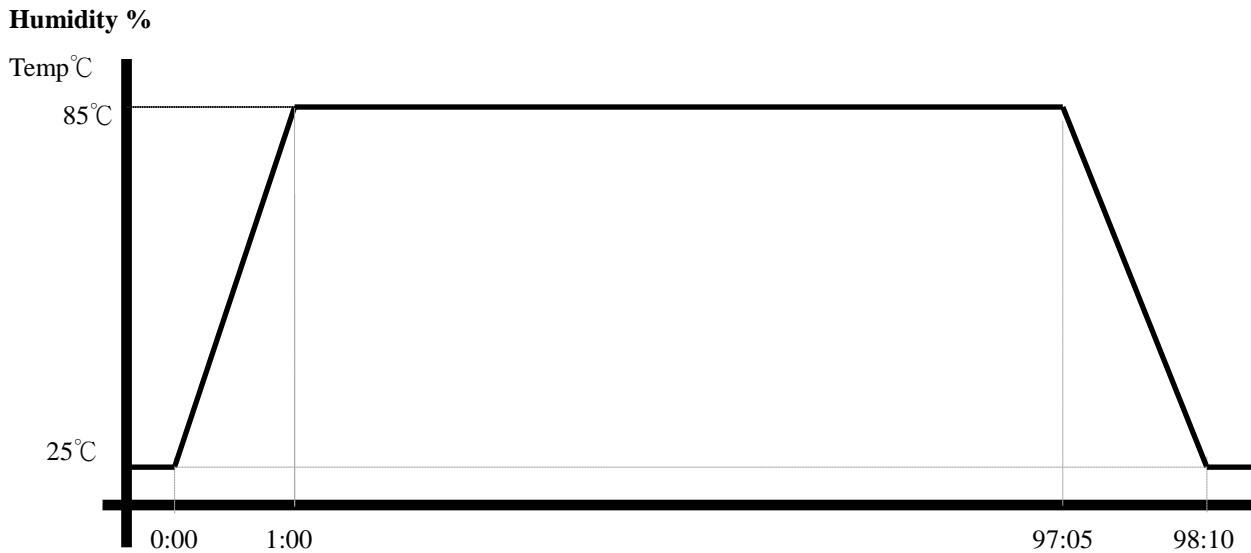
Test Site: AAEON QE Dept.

Test Standard: Reference IEC 68-2-2 Testing procedures
Test Bd: Dry Heat Test

Test Equipment:
Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)
Model: THS-D7S-100+L N2
Date of Calibration: 10/08/15
Serial Number: 3898

Test Condition:

1. Test Temperature: 85°C
2. Test Times: 96Hrs
3. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 4

Test Result:

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	-	

Note: 3 of 4 set need pass testing.

Humidity Test

Test Date: 12-18~21-2015

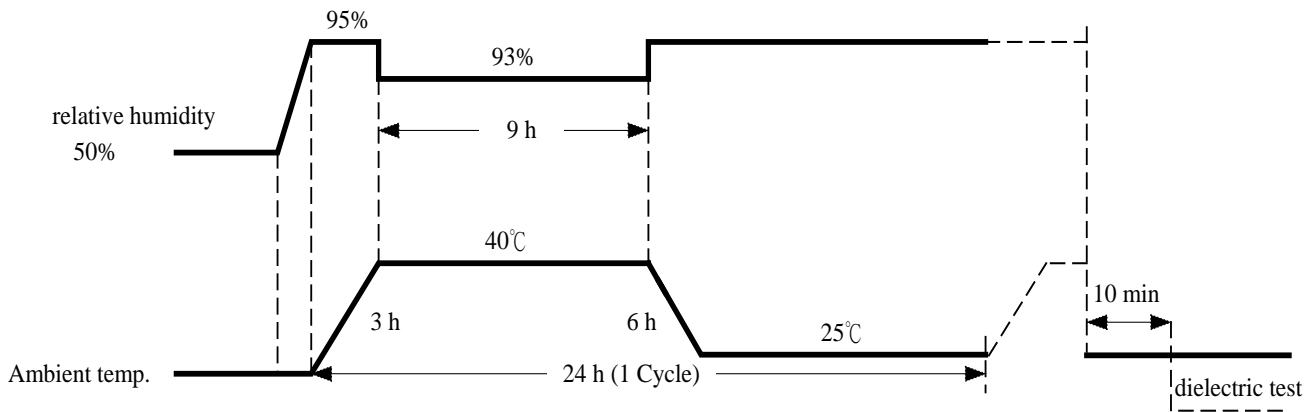
Test Site: AAEON QE Dept.

Test Standard: Reference IEC 68-2-30 Testing procedures
Test Db: Damp Heat Test (Non-operation)

Test Equipment:
 Programmable Temperature & Humidity Chamber (K.SON. INS. TECH. CORP.)
 Model: THS-D7S-100+L N2
 Date of Calibration: 10/08/15
 Serial Number: 3898

Testing Item:

1. Test Temperature: 25°C / 40°C
2. Test Humidity: 93~95%RH
3. Test Cycle: 2 Cycle
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 4

Test Result:

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	-	

Note: 3 of 4 set need pass testing.

Variation Temperature Operation test

Test Date: 12-21 ~ 24-2015

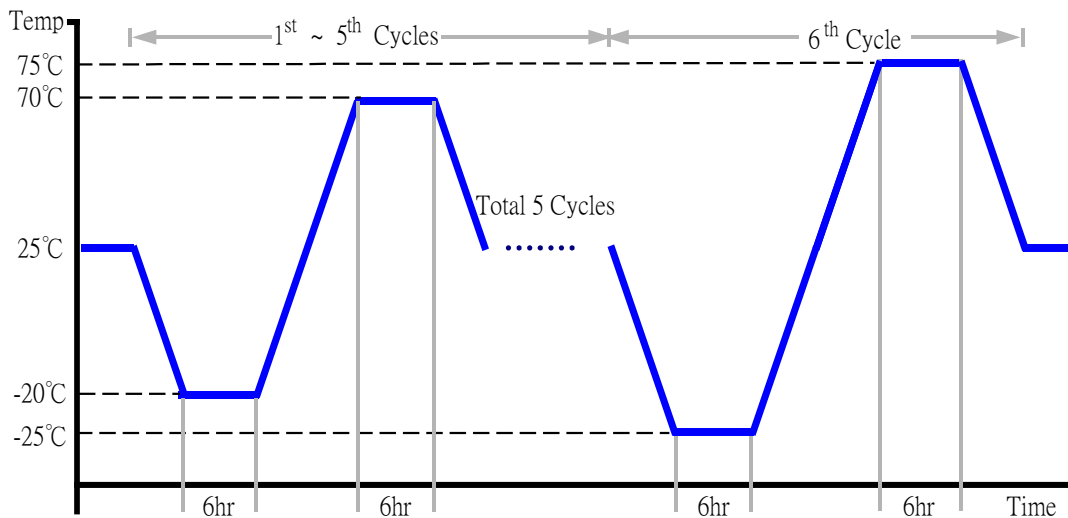
Test Site: AAEON QE Dept.

Test Standard: Reference 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: 10/08/15
Serial Number: 3898

Test Condition:

1. Test Low Temperature: -20°C (1~5 cycles)
-25°C (6th cycle)
2. Test High Temperature: 70°C (1~5 cycles)
75°C (6th cycle)
3. Test dwell time: 6Hrs
4. Temperature slope: 15°C/min
5. Test cycle: 6 cycles
6. Test Environment Curve:



Sample Quantity Under Test:
Quantity: 6

Test Result:

Sample No.	Test Result	Note
Sample 1	Pass	
Sample 2	Pass	
Sample 3	Pass	
Sample 4	-	

Note: 3 of 4 set need pass testing.