

TEST REPORT

Reliability Laboratory

Report No.: HXO0026/2022
Page: 1 of 74
Date: February 2, 2023

HP INC.
10F-1, NO.66, JINGMAO 2ND ROAD,
NANGANG DISTRICT, TAIPEI CITY, TAIWAN

The following merchandise was submitted and identified by the vendor as:

<u>Product Description:</u>	Notebook - Commercial
<u>Style/ Item No.:</u>	HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X1, A5CD24161XK, A5CD24161X8, A5CD24161XH, A5CD24161XM, A5CD24161XN, A5CD24161WZ, A5CD24161XF, A5CD24161X7, A5CD24161XJ, A5CD24161XD, A5CD24161X6, A5CD24161X5, A5CD24161X9
<u>Manufacturer/ Vendor:</u>	HP Inc.
<u>Country of Origin:</u>	China
<u>Quantity:</u>	Total 14 sets
<u>Testing Period:</u>	Nov. 1, 2022 to Dec. 26, 2022

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required:

1. Transit Drop Test (MIL-STD-810H:2019, Method 516.8, Procedure IV)
2. Functional Shock Test (MIL-STD-810H:2019, Method 516.8, Procedure I)
3. Vibration Test -I (MIL-STD-810H:2019, Method 514.8, Procedure I, Table 514.8C-I)
4. Vibration Test -II (MIL-STD-810H:2019, Method 514.8, Procedure II, Figure 514.8C-8)
5. Vibration Test -III (MIL-STD-810H:2019, Method 514.8, Procedure I, Figure 514.8E-1)
6. Blowing Dust Test (MIL-STD-810H:2019, Method 510.7, Procedure I)
7. Humidity Test (MIL-STD-810H:2019, Method 507.6, Procedure II - Aggravated Cycle)
8. Non-Operating Altitude Test (MIL-STD-810H:2019, Method 500.6, Procedure I)
9. Operating Altitude Test (MIL-STD-810H:2019, Method 500.6, Procedure II)
10. Non-Operating High Temperature Test (MIL-STD-810H:2019, Method 501.7, Procedure I)
11. Operating High Temperature Test (MIL-STD-810H:2019, Method 501.7, Procedure II – Operation)
12. Non-Operating Low Temperature Test (MIL-STD-810H:2019, Method 502.7, Procedure I – Storage)
13. Operating Low Temperature Test (MIL-STD-810H:2019, Method 502.7, Procedure II – Operation)
14. Thermal Shock Test (MIL-STD-810H:2019, Method 503.7, Procedure I-C)
15. Blowing Sand Test (MIL-STD-810H:2019, Method 510.7, Procedure II)
16. Freeze/ Thaw Test (MIL-STD-810H:2019, Method 524.1, Procedure III)
17. Bench Handling Shock Test (MIL-STD-810H:2019, Method 516.8, Procedure VI)
18. Crash Hazard Shock Test (MIL-STD-810H:2019, Method 516.8, Procedure V)
19. Transportation Shock Test (MIL-STD-810H:2019, Method 516.8, Procedure II, Table 516.8-VII)

Test Results: – PLEASE SEE ATTACHED SHEETS –

Signed for and on behalf of
SGS TAIWAN Ltd.



Sandra Chen
Team Leader-PM

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TEST REPORT

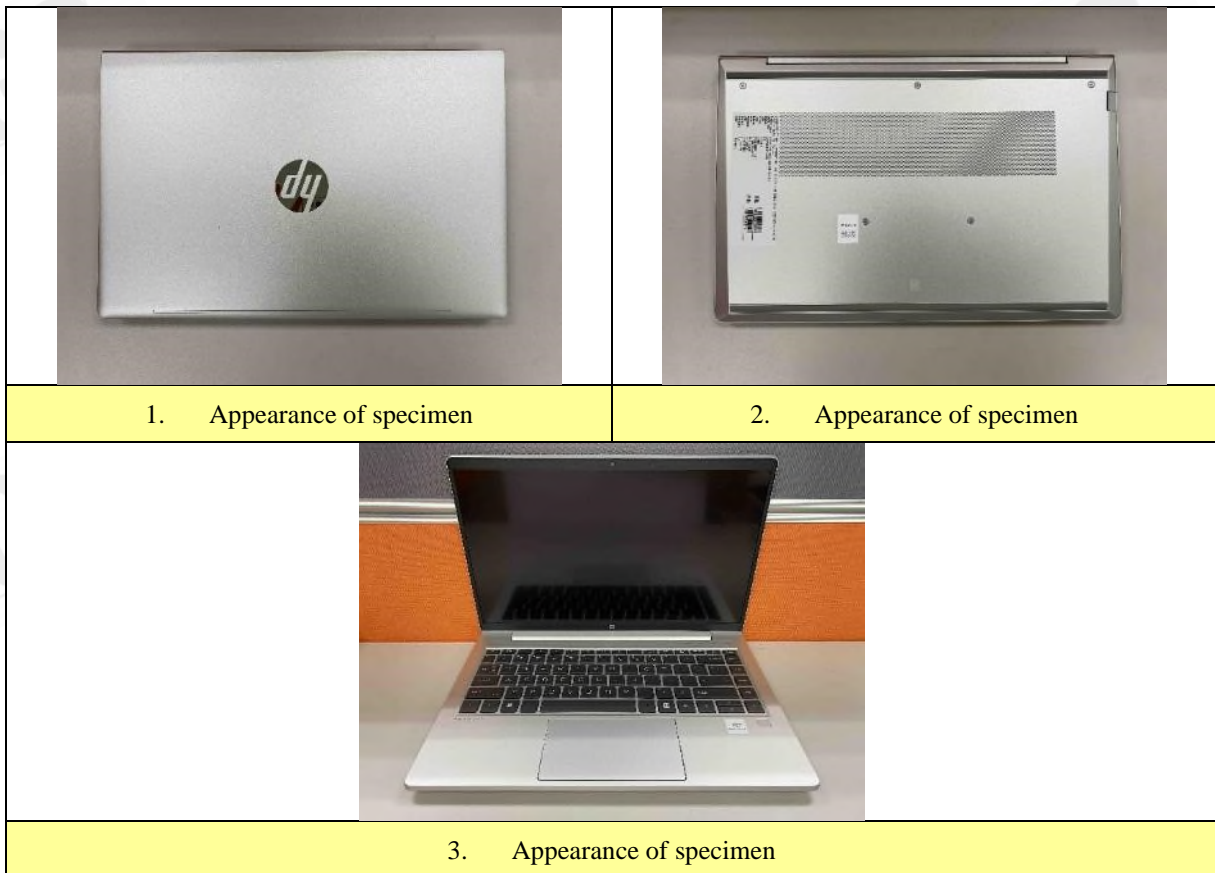
Test Summary:

Test Item	Test method	Test result
Transit Drop Test	MIL-STD-810H:2019, Method 516.8, Procedure IV	PASS
Functional Shock Test	MIL-STD-810H:2019, Method 516.8, Procedure I	PASS
Vibration Test -I	MIL-STD-810H:2019, Method 514.8, Procedure I, Table 514.8C-I	PASS
Vibration Test -II	MIL-STD-810H:2019, Method 514.8, Procedure II, Figure 514.8C-8	PASS
Vibration Test -III	MIL-STD-810H:2019, Method 514.8, Procedure I, Figure 514.8E-1	PASS
Blowing Dust Test	MIL-STD-810H:2019, Method 510.7, Procedure I	PASS
Humidity Test	MIL-STD-810H:2019, Method 507.6, Procedure II - Aggravated Cycle	PASS
Non-Operating Altitude Test	MIL-STD-810H:2019, Method 500.6, Procedure I	PASS
Operating Altitude Test	MIL-STD-810H:2019, Method 500.6, Procedure II	PASS
Non-Operating High Temperature Test	MIL-STD-810H:2019, Method 501.7, Procedure I, Table 501.7-III. High temperature cycles, climatic category A1 – Induced	PASS
Operating High Temperature Test	MIL-STD-810H:2019, Method 501.7, Procedure II – Operation	PASS
Non- Operating Low Temperature Test	MIL-STD-810H:2019, Method 502.7, Procedure I – Storage	PASS
Operating Low Temperature Test	MIL-STD-810H:2019, Method 502.7, Procedure II – Operation	PASS
Thermal Shock Test	MIL-STD-810H:2019, Method 503.7, Procedure I-C	PASS
Blowing Sand Test	MIL-STD-810H:2019, Method 510.7, Procedure II	PASS
Freeze/ Thaw Test	MIL-STD-810H:2019, Method 524.1, Procedure III	PASS
Bench Handling Shock Test	MIL-STD-810H:2019, Method 516.8, Procedure VI	PASS
Crash Hazard Shock Test	MIL-STD-810H:2019, Method 516.8, Procedure V	PASS
Transportation Shock Test	MIL-STD-810H:2019, Method 516.8, Procedure II, Table 516.8-VII	PASS

Note: "PASS" means no function defect after test. Please see following test specification of each test item in detail.

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Test Photos:



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TEST REPORT

1. Transit Drop Test:

Test Equipment:

Name	Brand	Model	Serial No.
Drop Tester	Vibration Source	VS-1018	0C03

Lab Environmental Conditions:

Ambient temperature: (25 ± 3) °C
 Ambient humidity: (55 ± 20) % RH

Test Location: No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 516.8, Procedure IV and client's request
 Sample Condition: Non-Operating
 Drop height: 30 inch
 Drop sequence: 8 corners, 12 edges and 6 faces (total 26 drops)
 Test surface: 2 inches of plywood

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XJ

Quantity: Total 5 sets

Test Result:

Style/ Item No.	Check item Drop sequence	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK	Side 1	No visible damage	Normal
	Edge 1	No visible damage	Normal
	Edge 2	No visible damage	Normal
	Corner 1	No visible damage	Normal
	Corner 2	No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9	Side 2	No visible damage	Normal
	Side 3	No visible damage	Normal
	Edge 3	No visible damage	Normal
	Edge 4	No visible damage	Normal
	Corner 3	No visible damage	Normal

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TEST REPORT

Test Result--Continued:

Style/ Item No.	Drop sequence	Check item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC / A5CD24161X5	Side 4		No visible damage	Normal
	Edge 5		No visible damage	Normal
	Edge 6		No visible damage	Normal
	Edge 7		No visible damage	Normal
	Corner 4		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8	Side 5		No visible damage	Normal
	Edge 8		No visible damage	Normal
	Edge 9		No visible damage	Normal
	Corner 5		No visible damage	Normal
	Corner 6		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XJ	Side 6		No visible damage	Normal
	Edge 10		No visible damage	Normal
	Edge 11		No visible damage	Normal
	Edge 12		No visible damage	Normal
	Corner 7		No visible damage	Normal
	Corner 8		No visible damage	Normal

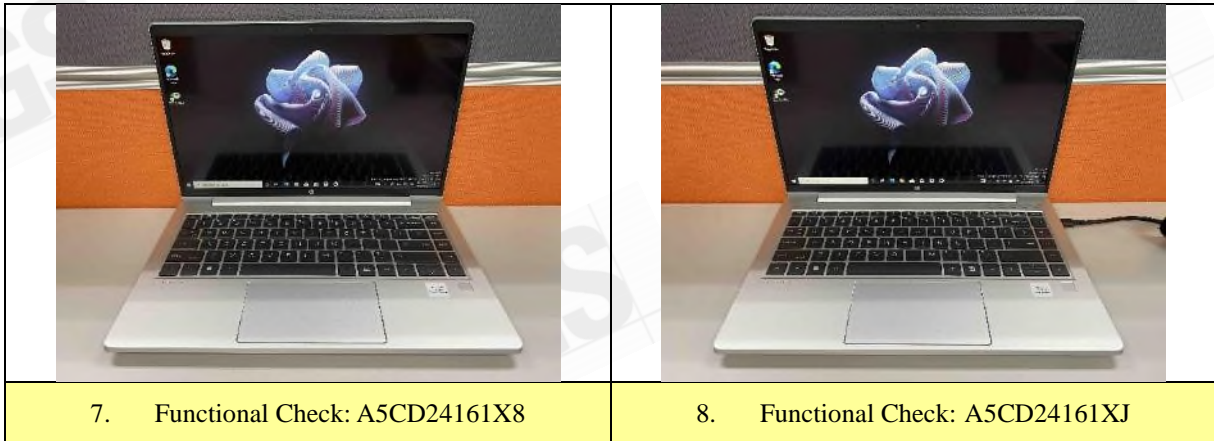
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Test Photos:



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Test Photos - -Continued:



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TEST REPORT

2. Functional Shock Test:

Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	M95/115D	M-17656
Data Acquisition & Analysis System	LANSMONT	TP4 8A-CH SML 1115-001	1115-001
ICP Accelerometer	PCB	353M288	196437

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) \text{ }^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{ RH}$

Test Location:

No.33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 516.8, Procedure I, Table 516.8-IV, Terminal peak sawtooth default test parameters and client's request

Sample condition: Operating (Under Chrome System)

Pulse shape: Sawtooth

Acceleration: 40 g

Pulse duration: 11 ms

Shock direction: 6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes)

No. of shock: 3 shocks/ face (total 18 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK

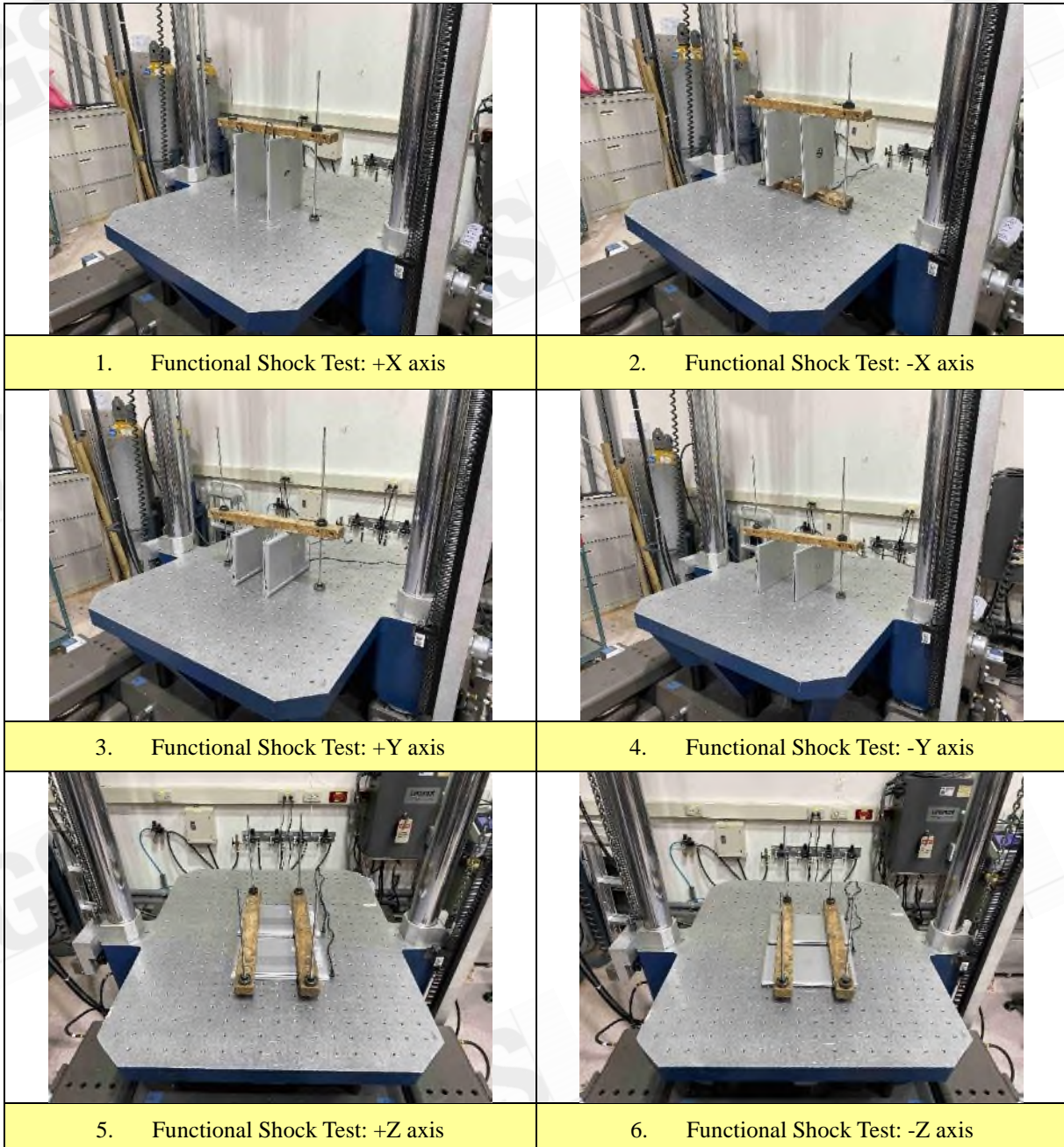
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK		No visible damage	Normal

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Test Photos--Continued:



7. Functional Check: A5CD24161X8

8. Functional Check: A5CD24161XK



Channel	Description	Fit Status	Acceleration G	Duration msec	Waveform	Spec
1	table	In Band	40.00	11.00	SawTooth	810E

9. Shock pulse response for Functional Shock Test: $\pm X$, $\pm Y$, $\pm Z$ axis

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3. Vibration Test -I:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location:

No.31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 514.8, Procedure I, Table 514.8C-I

Category 4 - Common carrier and client's request

Sample condition: Operating (Under Chrome System)

Wave form: Random

Frequency: (5 ~ 500) Hz (Test Spectrums as shown in the following sheets in detail)

Direction: X, Y, Z axes

Duration: 2 hours/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check during and after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

TEST REPORT

Test Method/ Specification--Continued:

Test Spectrums:

Vertical - Z axis		Transverse - X axis		Longitudinal - Y axis	
Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)
5	0.01500	5	0.00013	5	0.00650
40	0.01500	10	0.00013	20	0.00650
500	0.00015	20	0.00065	120	0.00020
⇨ equivalent to 1.08 G _{rms}		30	0.00065	121	0.00300
		78	0.00002	200	0.00300
		79	0.00019	240	0.00150
		120	0.00019	340	0.00003
		500	0.00001	500	0.00015
		⇨ equivalent to 0.21 G _{rms}		⇨ equivalent to 0.76 G _{rms}	

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9

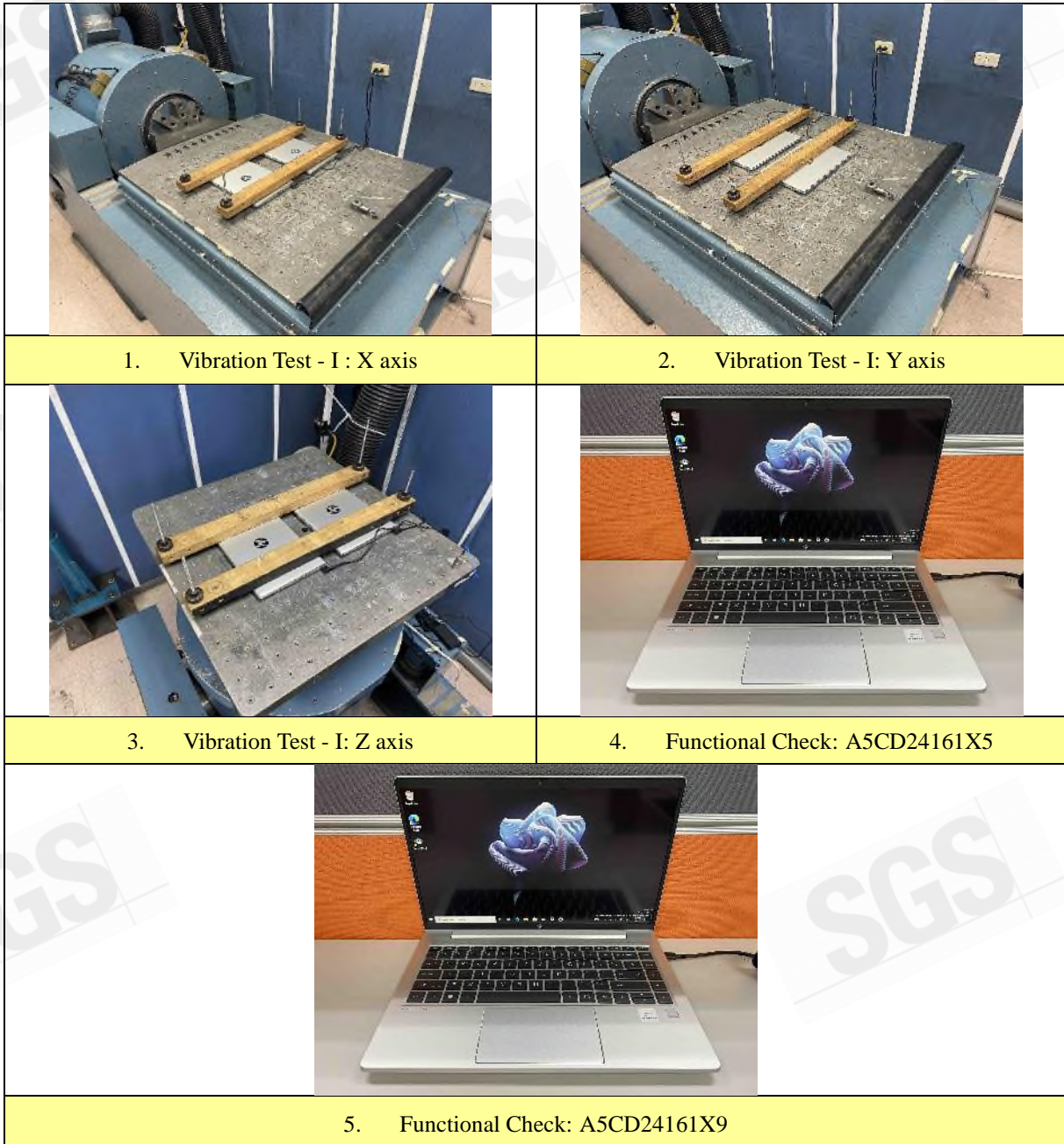
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9		No visible damage	Normal

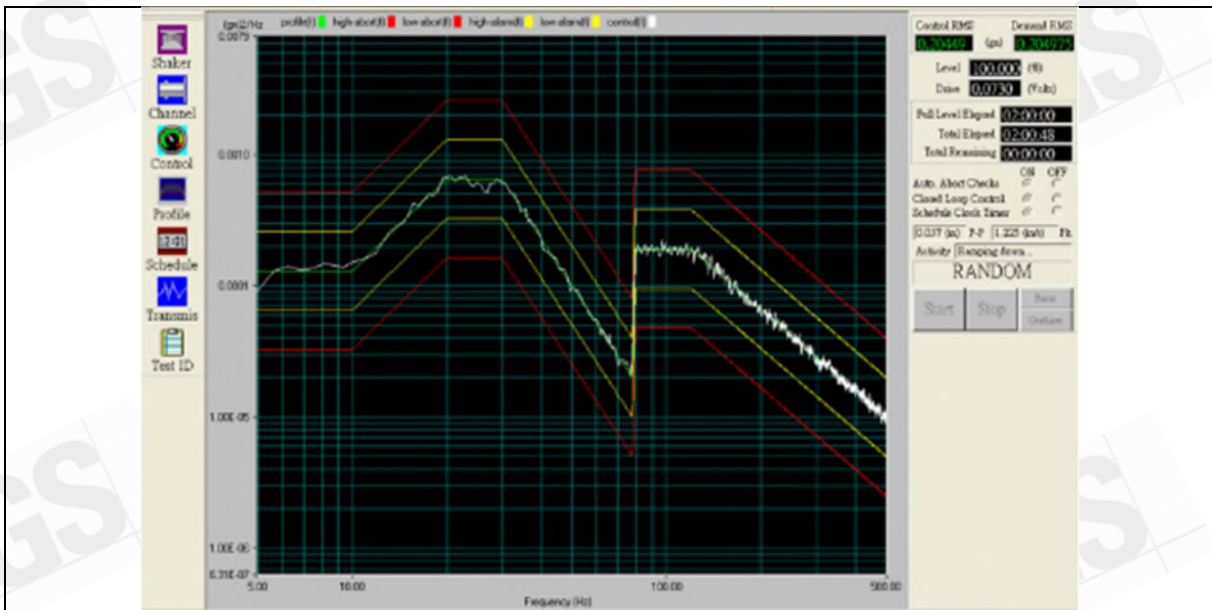
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Test Photos:

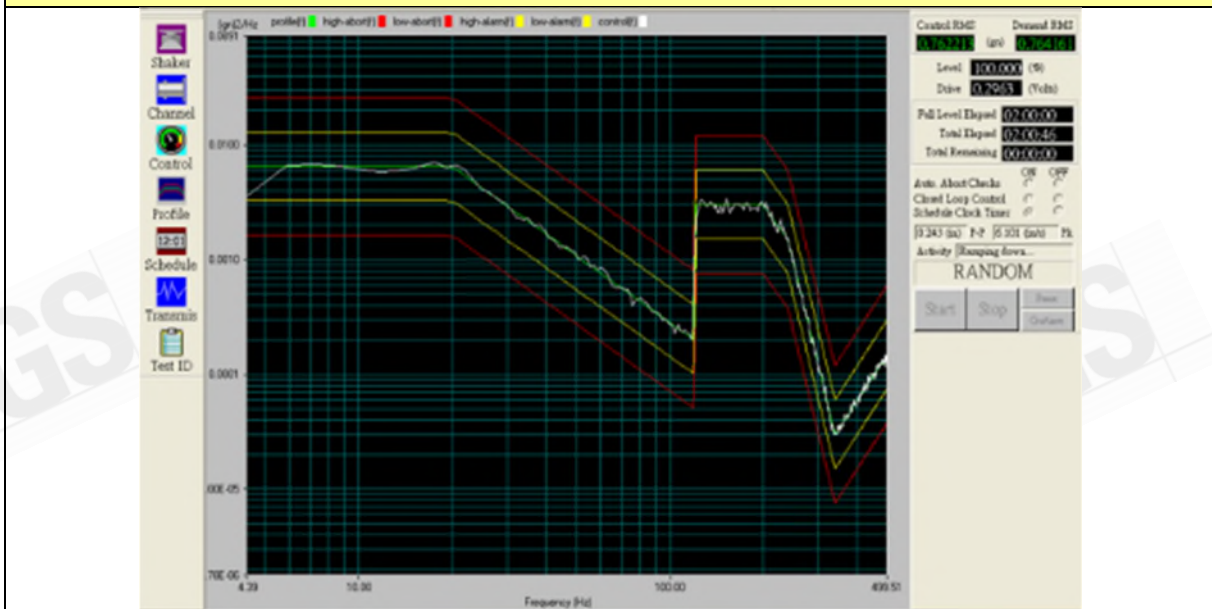


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Test Photos -- Continued:



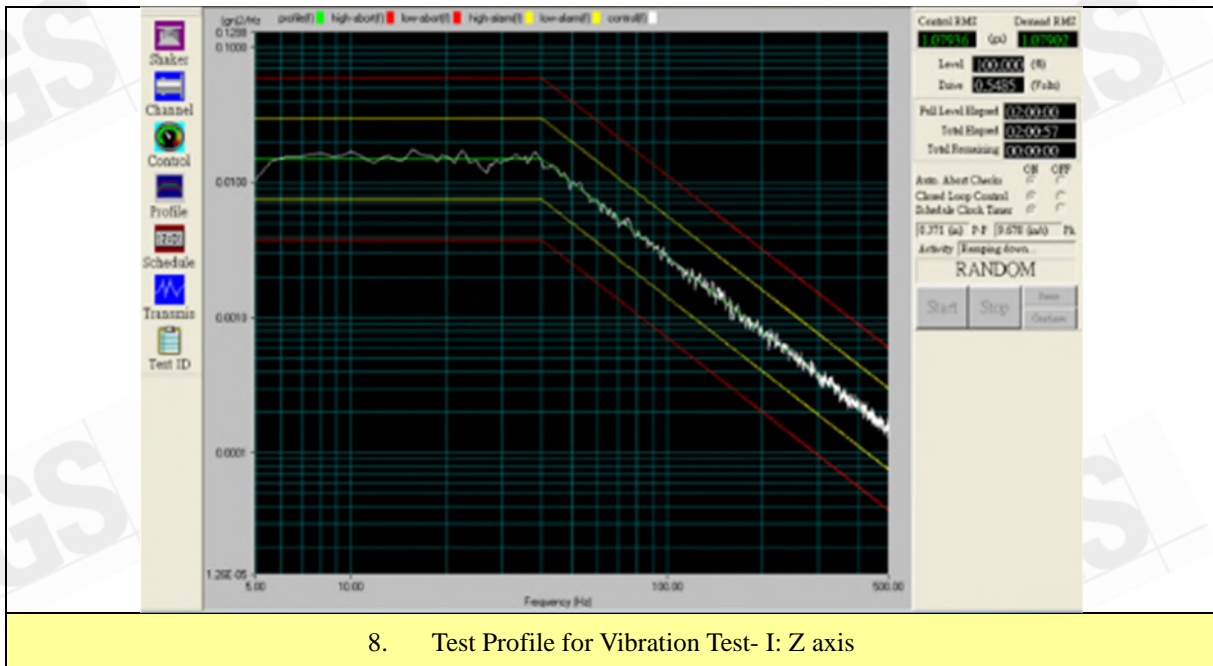
6. Test Profile for Vibration Test- I: X axis



7. Test Profile for Vibration Test- I: Y axis

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Test Photos--Continued:



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TEST REPORT

4. Vibration Test - II:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	CHUN-YEN	CY-6120P	1999-12

Lab Environmental Conditions:

Ambient temperature: (25 ± 3) °C

Ambient humidity: (55 ± 20) % RH

Test Location: No.33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 514.8, Procedure II- Loose cargo transportation, Figure 514.8C-8, Category 5 - Truck/trailer - loose cargo and client's request

Sample condition: Packaged with carton

Vibration mode: 1" peak to peak orbital motion

Frequency: 5 Hz

Test face: Bottom down

Duration: 20 minutes/ direction

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen and then examine whether the booting function of specimen could be work normally or not.

TEST REPORT

Report No.: HXO0026/2022

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9





Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9		No visible damage	Normal

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Test Photos:

	
<p>1. Appearance of carton</p>	<p>2. Vibration Test - II</p>
	
<p>3. Functional Check: A5CD24161X5</p>	<p>4. Functional Check: A5CD24161X9</p>

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TEST REPORT

5. Vibration Test -III:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) \text{ }^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{ RH}$

Test Location:

No.31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 514.8, Procedure I, Figure 514.8E-1, Category 24- General minimum integrity exposure and client's request

Sample condition: Operating (Under Chrome System)

Wave form: Random

Frequency: (20 ~ 2000) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD (g^2/Hz)	Right Slope (dB/Oct.)
20	—	0.04	0
1000	0	0.04	-6
2000	-6	0.01	—

⇨ equivalent to 7.7 G_{rms}

Direction: X, Y, Z axes

Duration: 1 hour/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

TEST REPORT

Report No.: HXO0026/2022

Page: 23 of 74

Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9

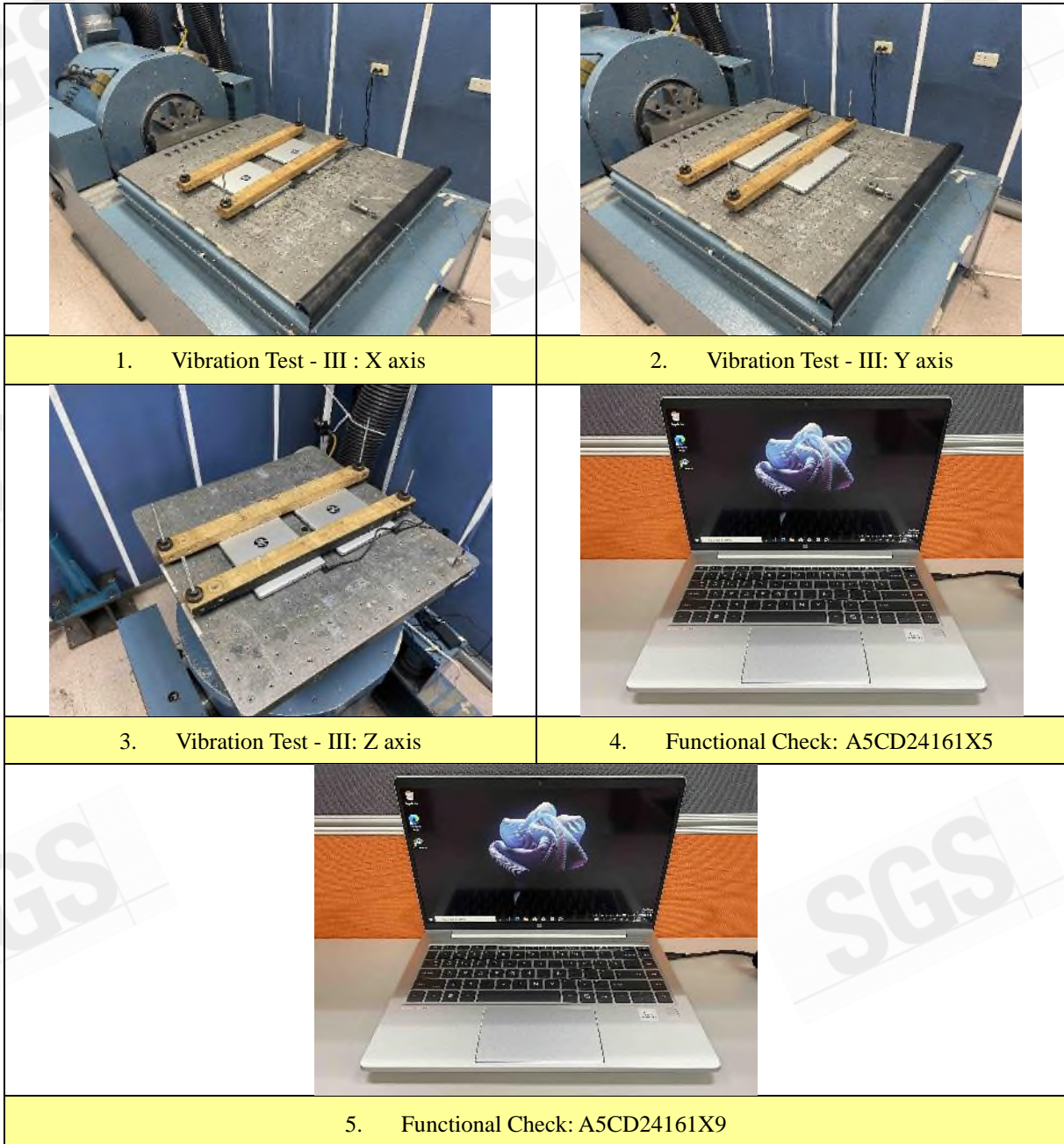
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9		No visible damage	Normal

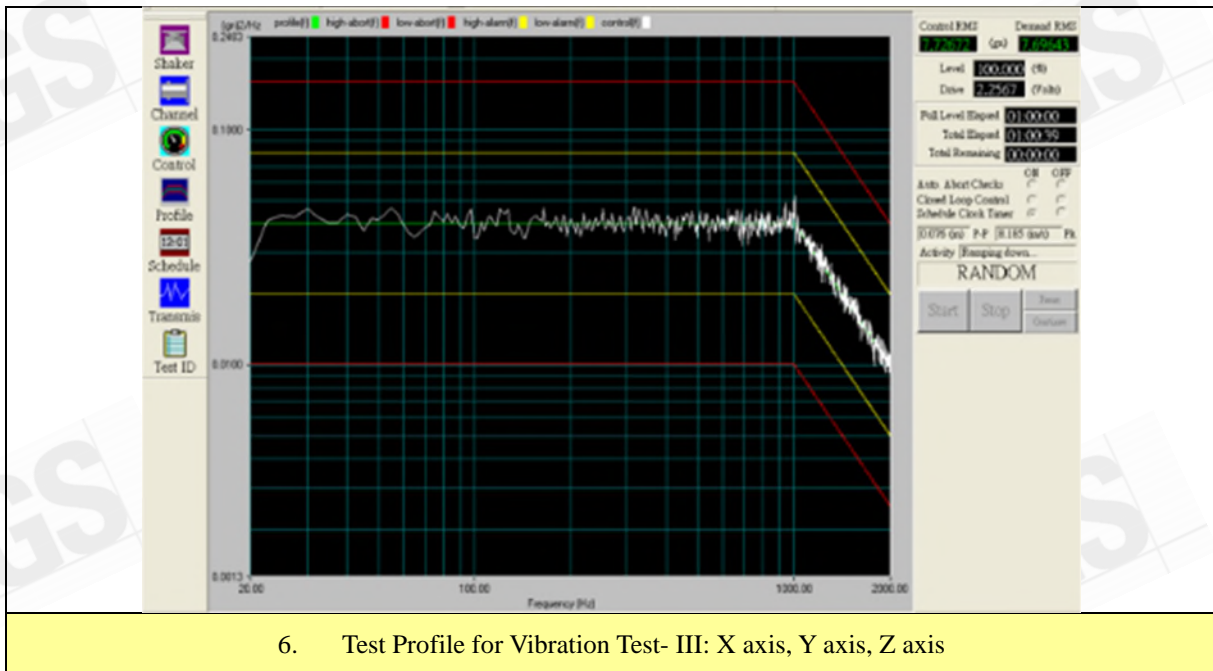
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Test Photos:



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Test Photos -- Continued:



6. Test Profile for Vibration Test- III: X axis, Y axis, Z axis

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6. Blowing Dust Test:

Test Equipment:

Name	Brand	Model	Serial No.
Chamber	ACS	SD 8000 MIL	TT02038
Anemometer	INNPITRON	RG4000WS	FS22082507
Concentration meter	SICK	DHT-T00	16488579

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) \text{ }^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{ RH}$

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 510.7, Procedure I and client's request

Sample condition: Operating (Under Chrome System)

Test Temperature: $(25 \pm 2) \text{ }^\circ\text{C}$

Dust concentration: $(10.6 \pm 7) \text{ g/m}^3$

Air flow velocity: 8.9 m/s which is approximately 20 mph.

Test duration: 6 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

TEST REPORT

Report No.: HXO0026/2022

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161WZ,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XH

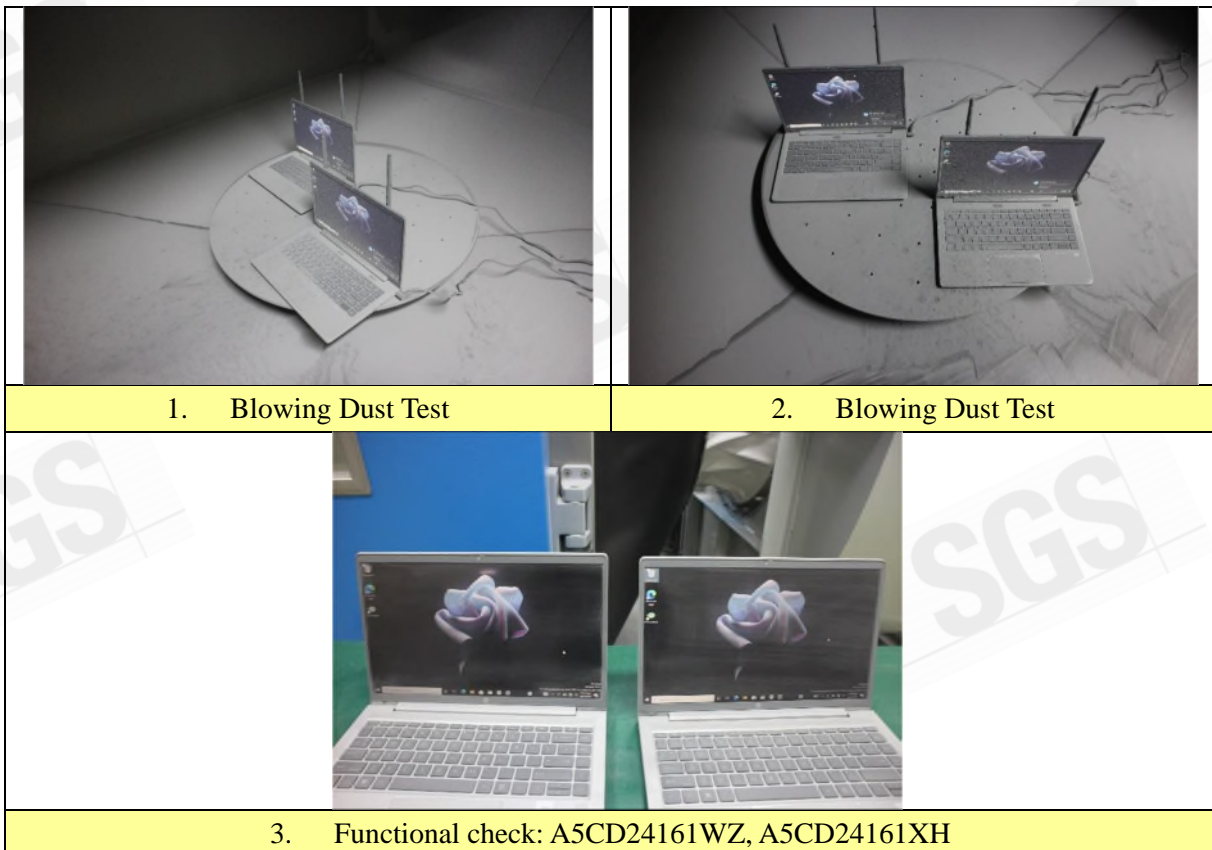
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161WZ		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XH		No visible damage	Normal

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TEST REPORT

7. Humidity Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	GIANT FORCE	GTH-800-40-CP-AR	MAA2003-006

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 507.6, Procedure II - Aggravated Cycle and client's request

Step	Temperature ($^\circ\text{C}$)	Humidity (%RH)	Time
1	23	50	24 hours
2	23 \rightarrow 60	50 \rightarrow 95	2 hours
3	60	95	6 hours
4	60 \rightarrow 30	95	8 hours
5	30	95	8 hours
Test cycle: Total 1 cycle (Repeat Step 2 ~ Step 5 for 10 cycles)			

- Test Cycle: Total 10 cycles
- Sample condition: Non-Operating
- Examine the appearance of specimen(s) by visual check and perform functional check after the end of the fifth and tenth cycles test accomplished.
- Functional check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

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TEST REPORT

Report No.: HXO0026/2022

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X7,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XJ

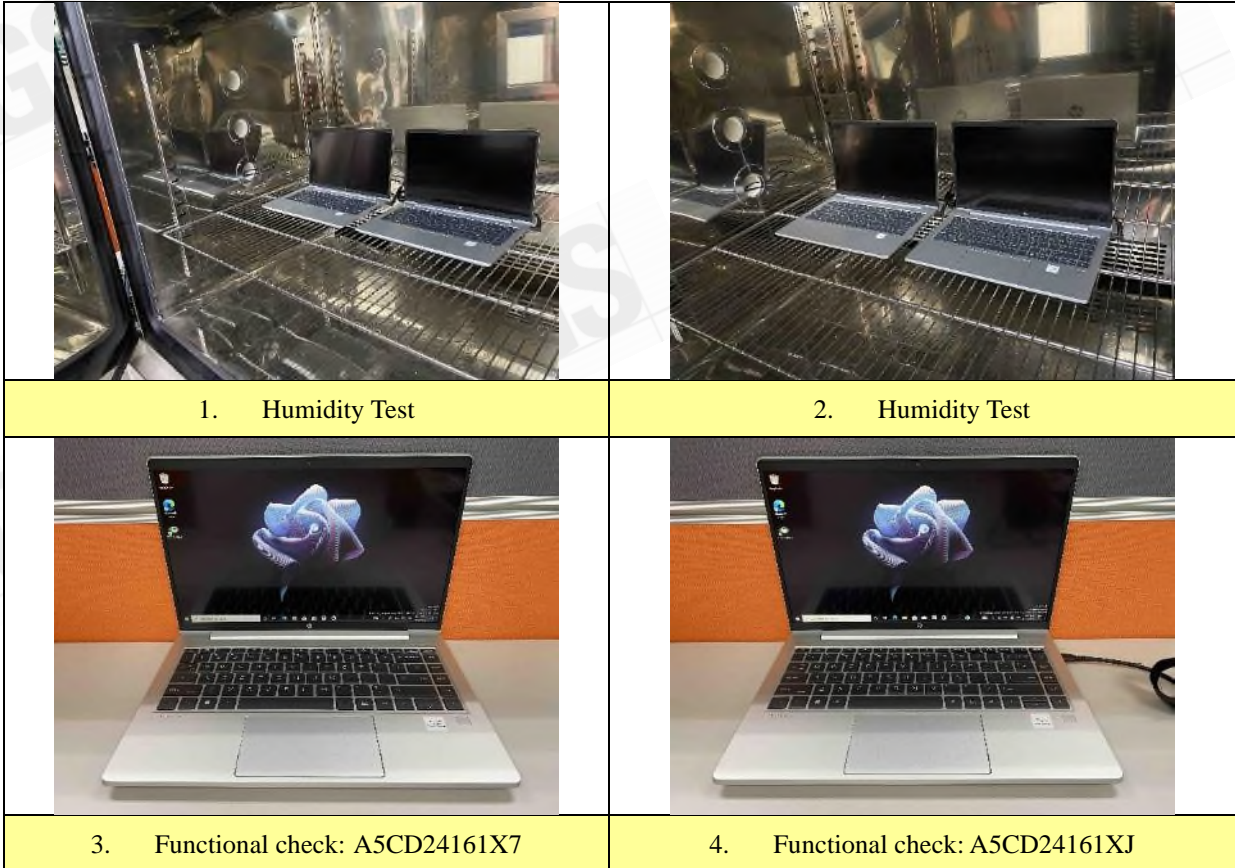
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
	HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X7	5 TH cycle	No visible damage
10 TH cycle		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XJ	5 TH cycle	No visible damage	Normal
	10 TH cycle	No visible damage	Normal

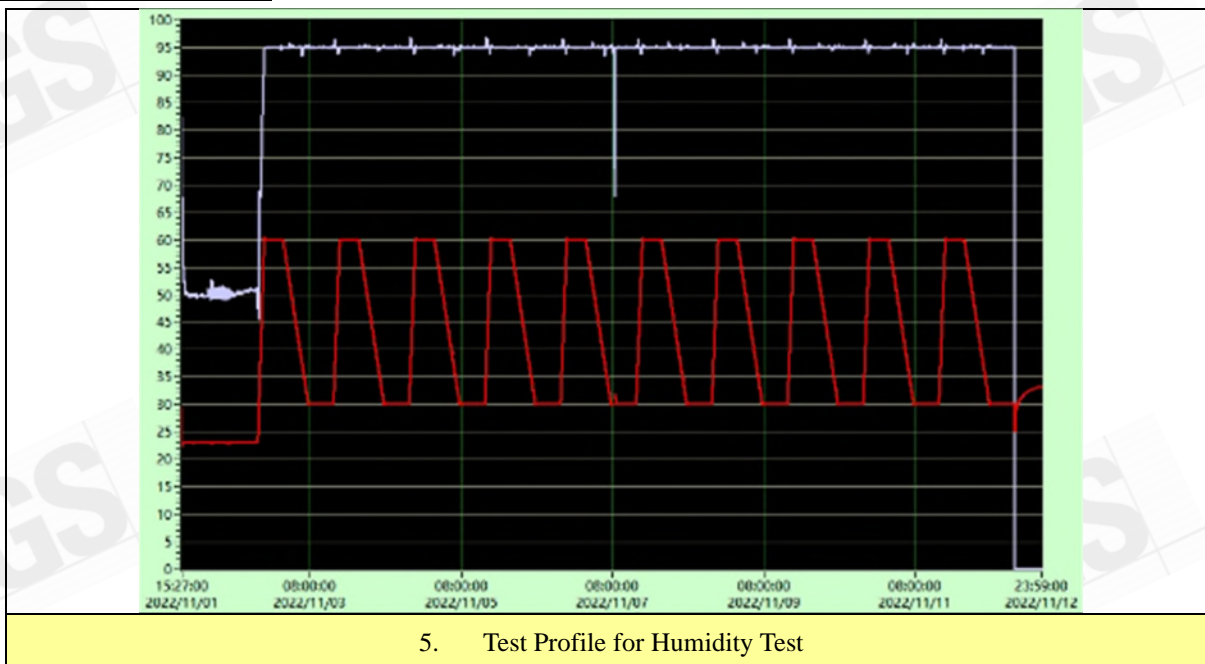
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Test Photos:



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Test Photos -- Continued:



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8. Non-Operating Altitude Test:

Test Equipment:

Name	Brand	Model	Serial No.
Altitude Chamber	GIANT FORCE	GTP-1260-50-CP-AR	MAF1206-008

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location:

No.33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 500.6, Procedure I and client's request

Sample condition: Non-Operating

Test Temperature: 25°C

Altitude: 15,000 feet

Duration: 1 hour

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

TEST REPORT

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK

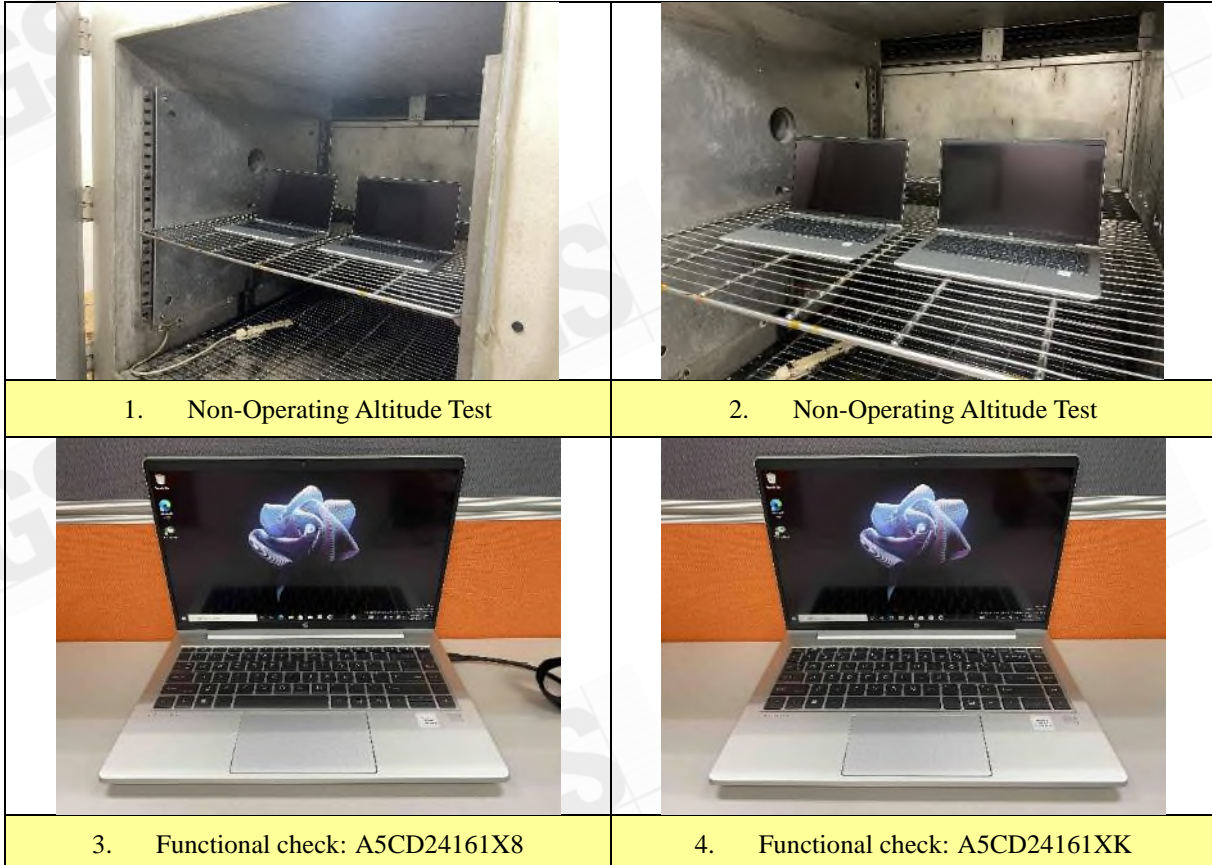
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK		No visible damage	Normal

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Test Photos:



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9. Operating Altitude Test:

Test Equipment:

Name	Brand	Model	Serial No.
Altitude Chamber	GIANT FORCE	GTP-1260-50-CP-AR	MAF1206-008

Lab Environmental Conditions:

Ambient temperature: (25 ± 3) °C

Ambient humidity: (55 ± 20) % RH

Test Location:

No.33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 500.6, Procedure II and client's request

Sample condition: Operating (Under Chrome System)

Test Temperature: 25°C

Altitude: 15,000 feet

Duration: 1 hour

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

TEST REPORT

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK

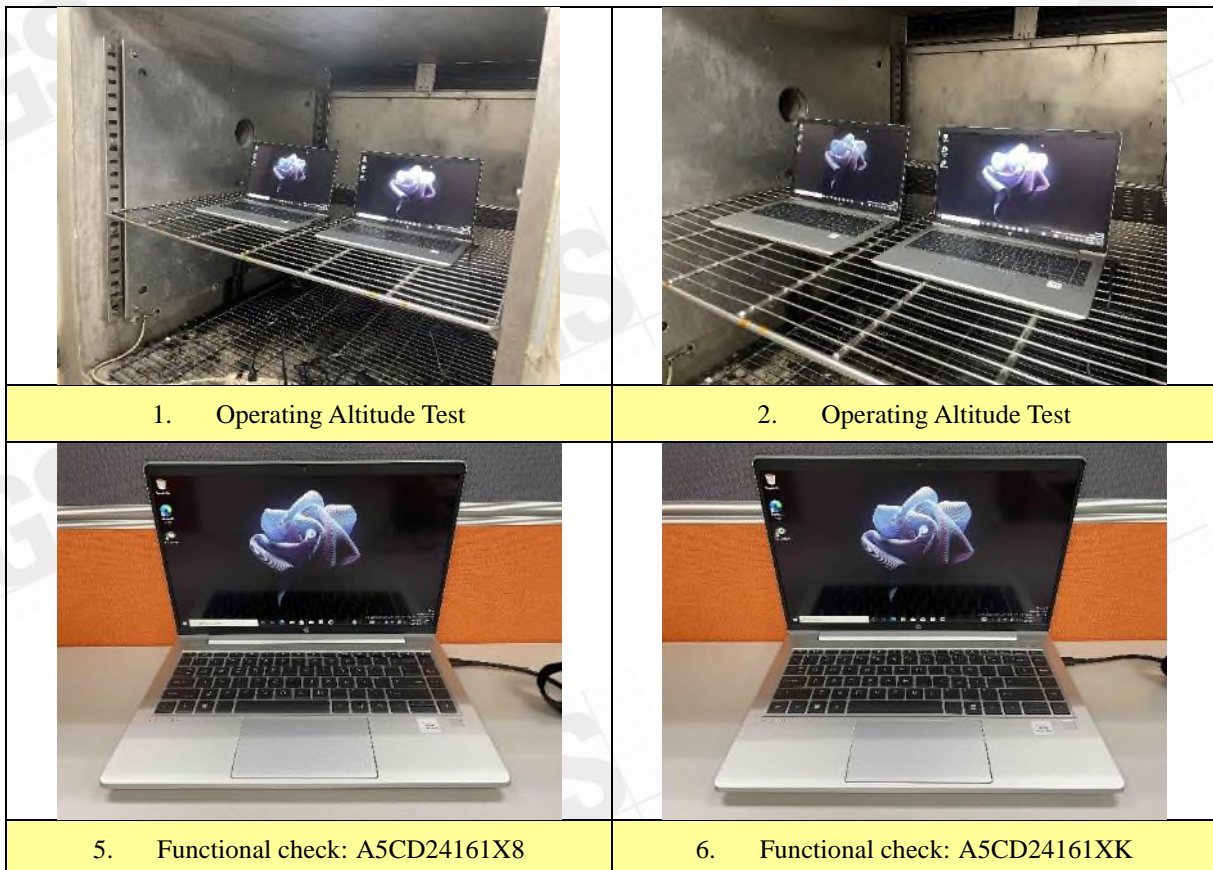
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK		No visible damage	Normal

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TEST REPORT

10. Non-Operating High Temperature Test:
Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-D6TS-150+LN2	A0493

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$
 Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No. 115-1, Sanjun Street., Shulin Distict., New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 501.7, Procedure I
 (Table 501.7-III. High temperature cycles, climatic category A1 – Induced)
 and client's request

Time of Day	Temperature ($^\circ\text{C}$)
01:00	35
02:00	34
03:00	34
04:00	33
05:00	33
06:00	33
07:00	36
08:00	40
09:00	44
10:00	51
11:00	56
12:00	63
13:00	69
14:00	70
15:00	71
16:00	70
17:00	67
18:00	63
19:00	55
20:00	48
21:00	41
22:00	39
23:00	37
24:00	35

Test cycle: 7 cycles

- Sample Condition: Non-Operating
- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XM,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X1

Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XM		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X1		No visible damage	Normal

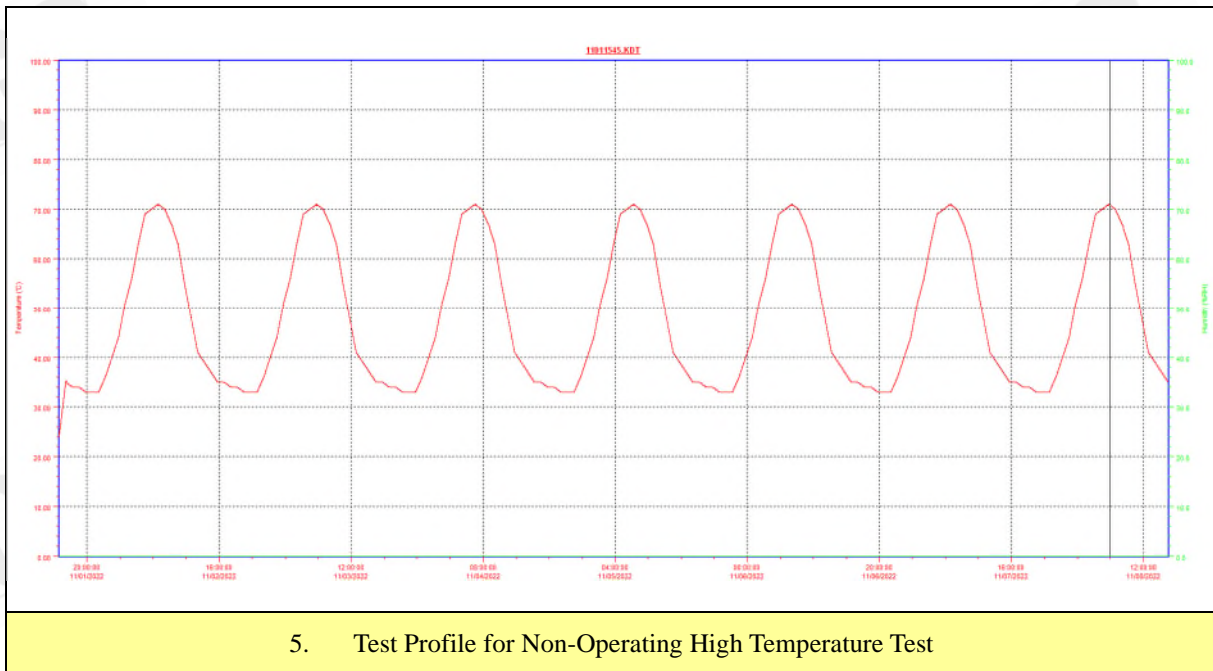
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Test Photos -- Continued:



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11. Operating High Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature Chamber	GIANT FORCE	GTH-800-40-CP-AR	MAA2003-003

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan.

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 501.7, Procedure II – Operation and client's request

Sample condition: Operating (Under Chrome System)

Test Temperature: 60°C

Duration: 4 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XN,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X6

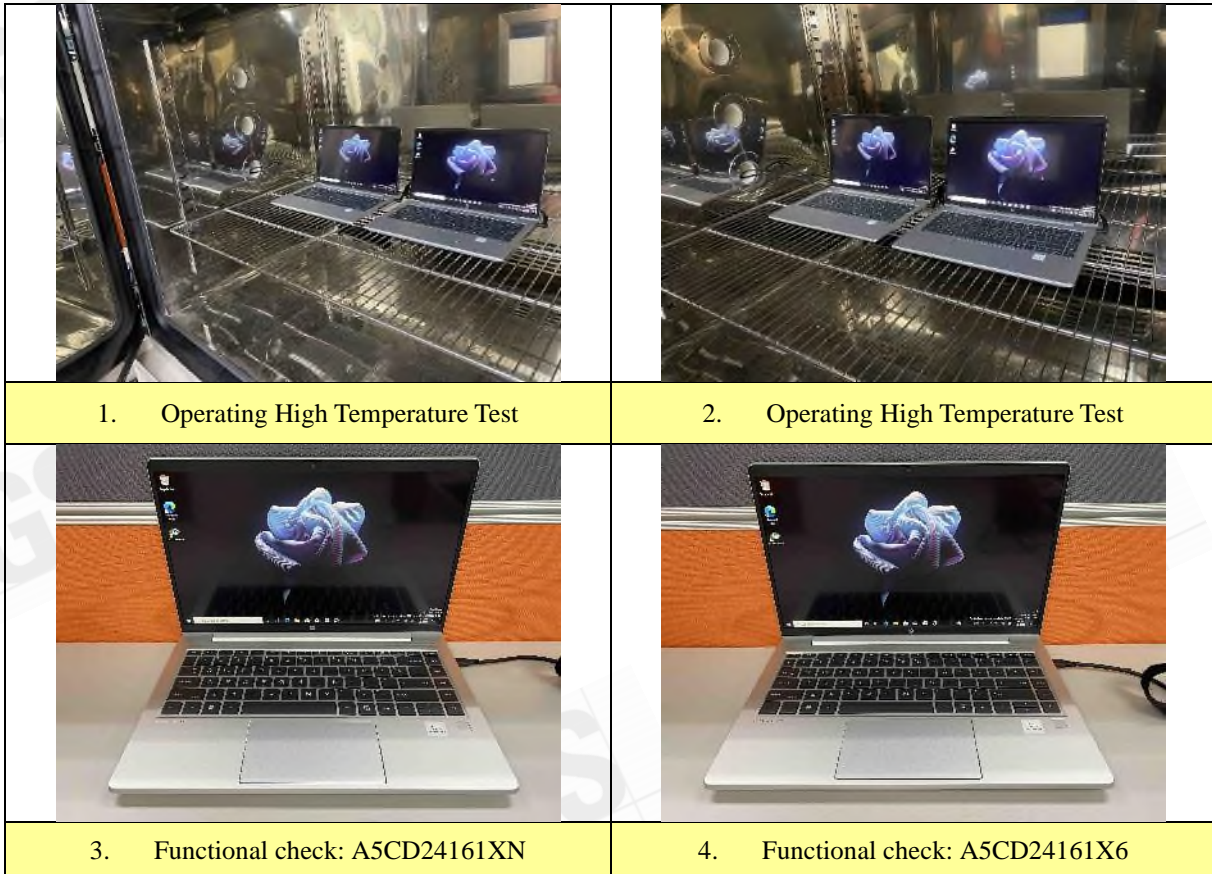
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XN		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X6		No visible damage	Normal

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Test Photos:



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12. Non-Operating Low Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-D6TS-150+LN2	A0560

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No. 115-1, Sanjun Street., Shulin Distict., New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 502.7, Procedure I – Storage and client’s request

Sample condition: Non-Operating

Test Temperature: -51°C

Duration: 4 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

TEST REPORT

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XN,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X6


Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XN		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X6		No visible damage	Normal

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Test Photos:

	
<p>1. Non-Operating Low Temperature Test</p>	<p>2. Non-Operating Low Temperature Test</p>
	
<p>3. Functional check: A5CD24161XN</p>	<p>4. Functional check: A5CD24161X6</p>

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13. Operating Low Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature Chamber	GIANT FORCE	GTH-800-40-CP-AR	MAA2003-003

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location:

No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan.

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 502.7, Procedure II – Operation and client’s request

Sample condition: Operating (Under Chrome System)

Test Temperature: -29°C

Duration: 4 hours

- Examine the appearance of specimen(s) by visual check and perform functional after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XN,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X6

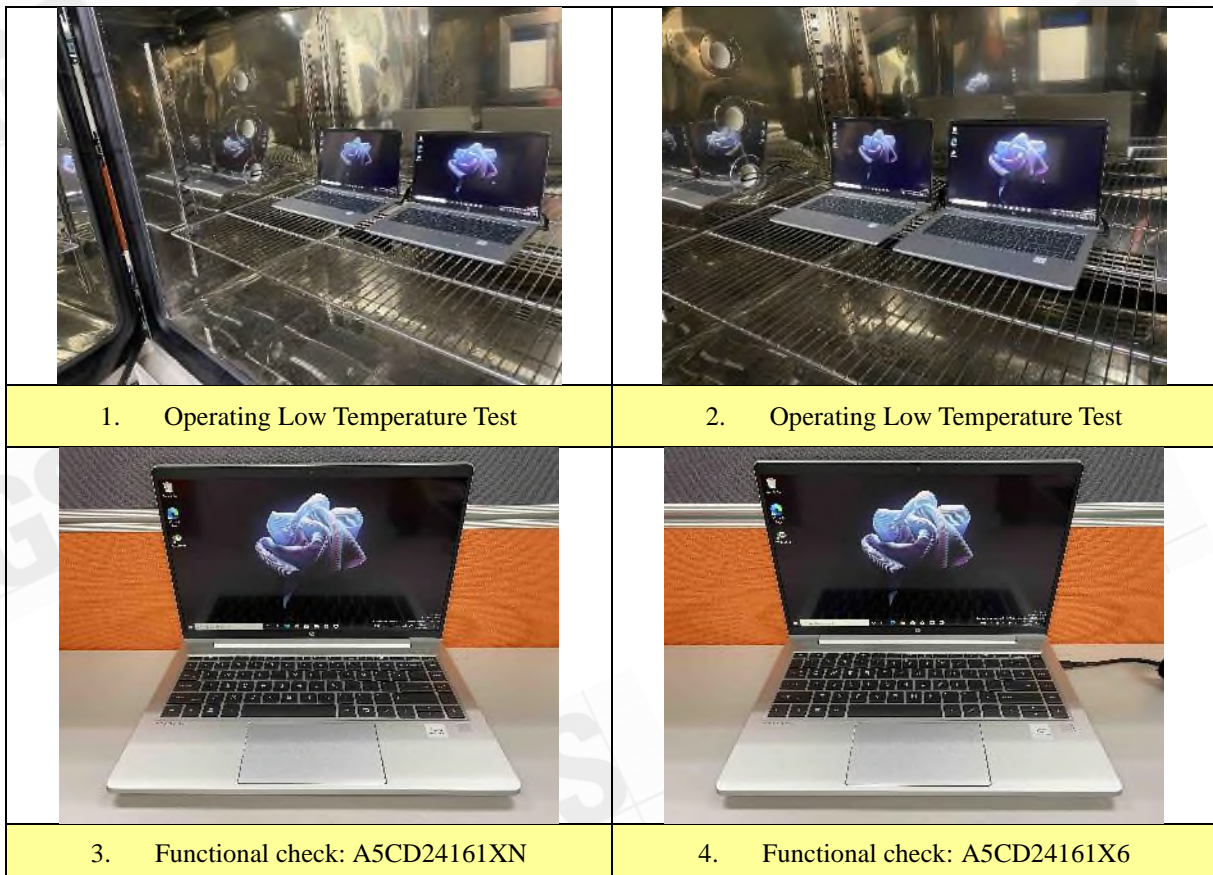
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XN		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X6		No visible damage	Normal

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Test Photos:



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14. Thermal Shock Test:

Test Equipment:

Name	Brand	Model	Serial No.
Thermal Shock Chamber	GIANT FORCE	GTST-252-65-AW-2	MAI2001-001

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

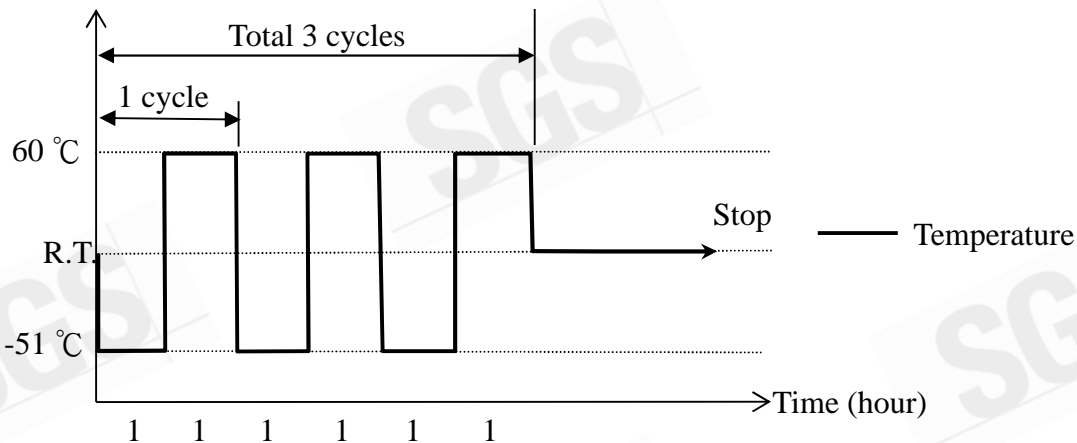
Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No. 115-1, Sanjun Street., Shulin District., New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 503.7, Procedure I-C and client's request

Temperature ($^\circ\text{C}$)



- The temperature transition time shall be within 1 minute.
- Sample condition: Non-Operating
- Examine the appearance of specimen(s) by visual check and perform functional after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

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TEST REPORT

Report No.: HXO0026/2022

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XM,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X1

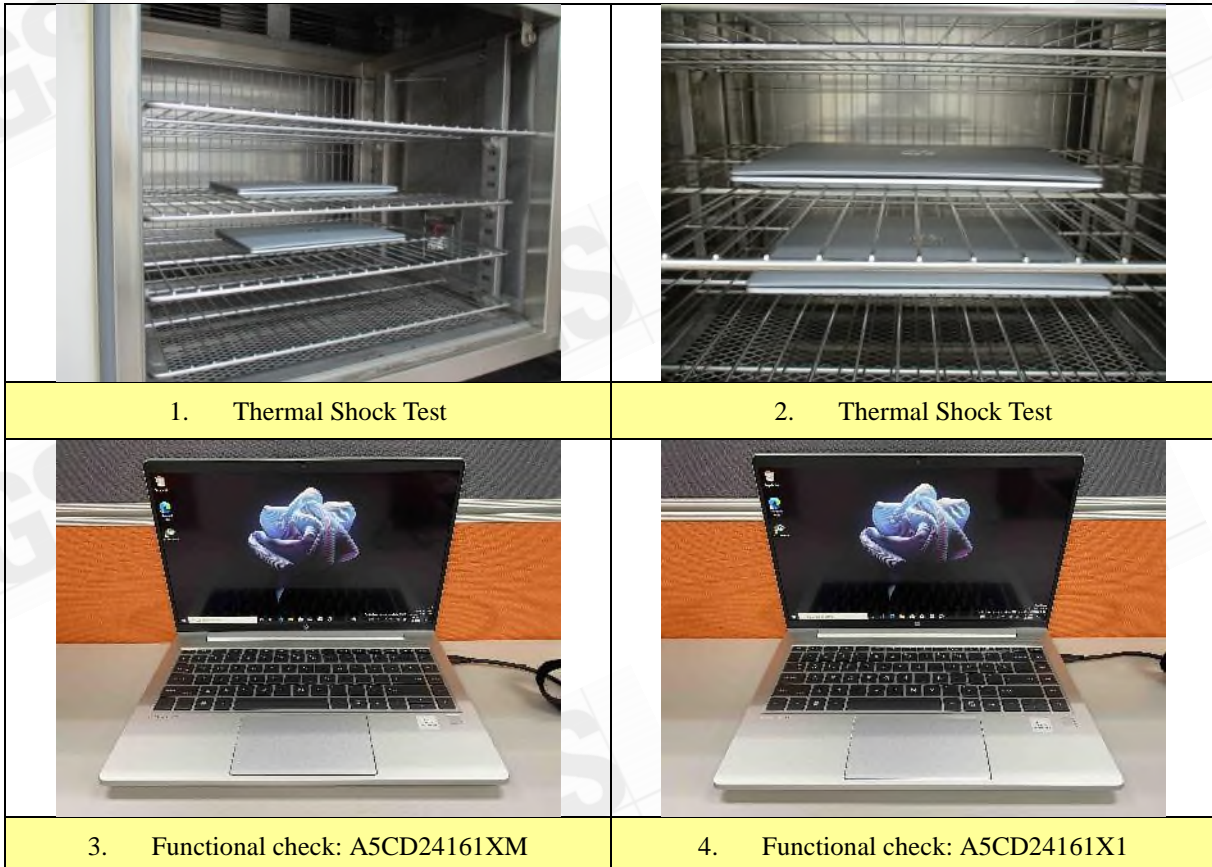
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XM		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X1		No visible damage	Normal

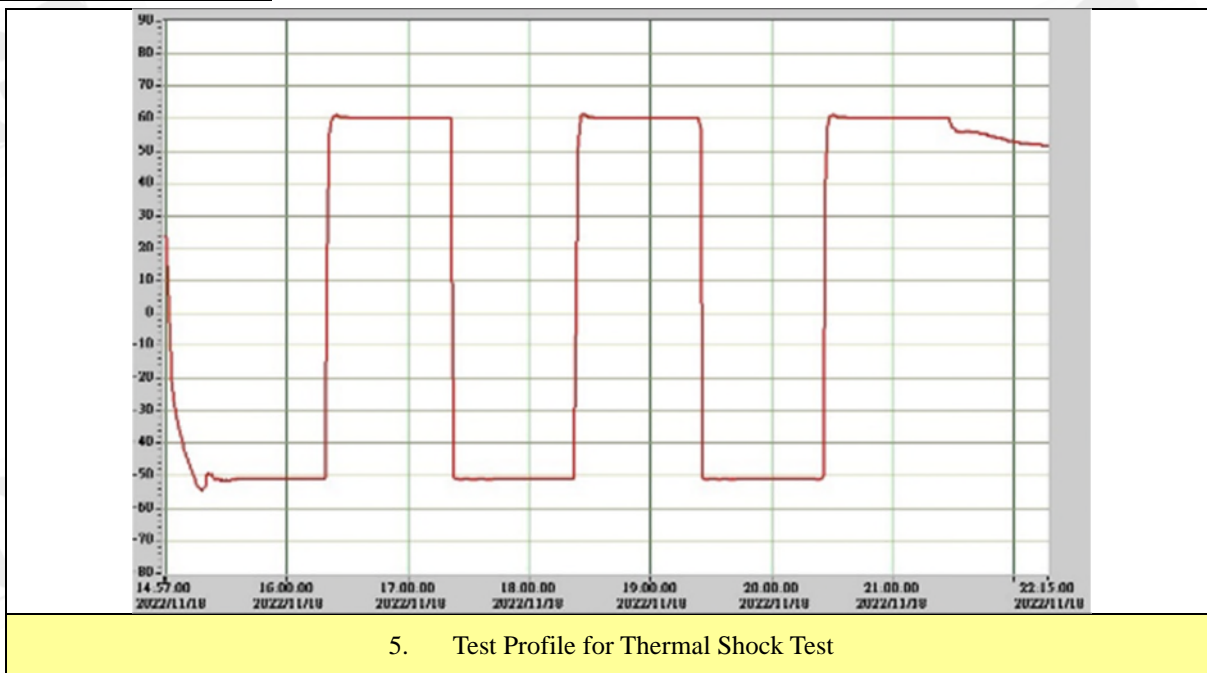
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Test Photos:



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Test Photos -- Continued:



5. Test Profile for Thermal Shock Test

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15. Blowing Sand Test:

Test Equipment:

Name	Brand	Model	Serial No.
Chamber	ACS	SD 8000 MIL	TT02038
Anemometer	INNPITRON	RG4000WS	FS22082507
Concentration meter	SICK	DHT-T00	16488579

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) \text{ }^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{ RH}$

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 510.7, Procedure II and client's request

Sample condition: Operating (Under Chrome System)

Test Temperature: 60 °C

Dust concentration: 2.4 g/m³

Air flow velocity: 20 m/s which is approximately 40 mph.

Test direction: Front 0°、Left side 90°、Back side 180°、Right side 270°

Test duration: 90 minutes / direction, total 360 minutes

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

TEST REPORT

Report No.: HXO0026/2022

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XF,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XD

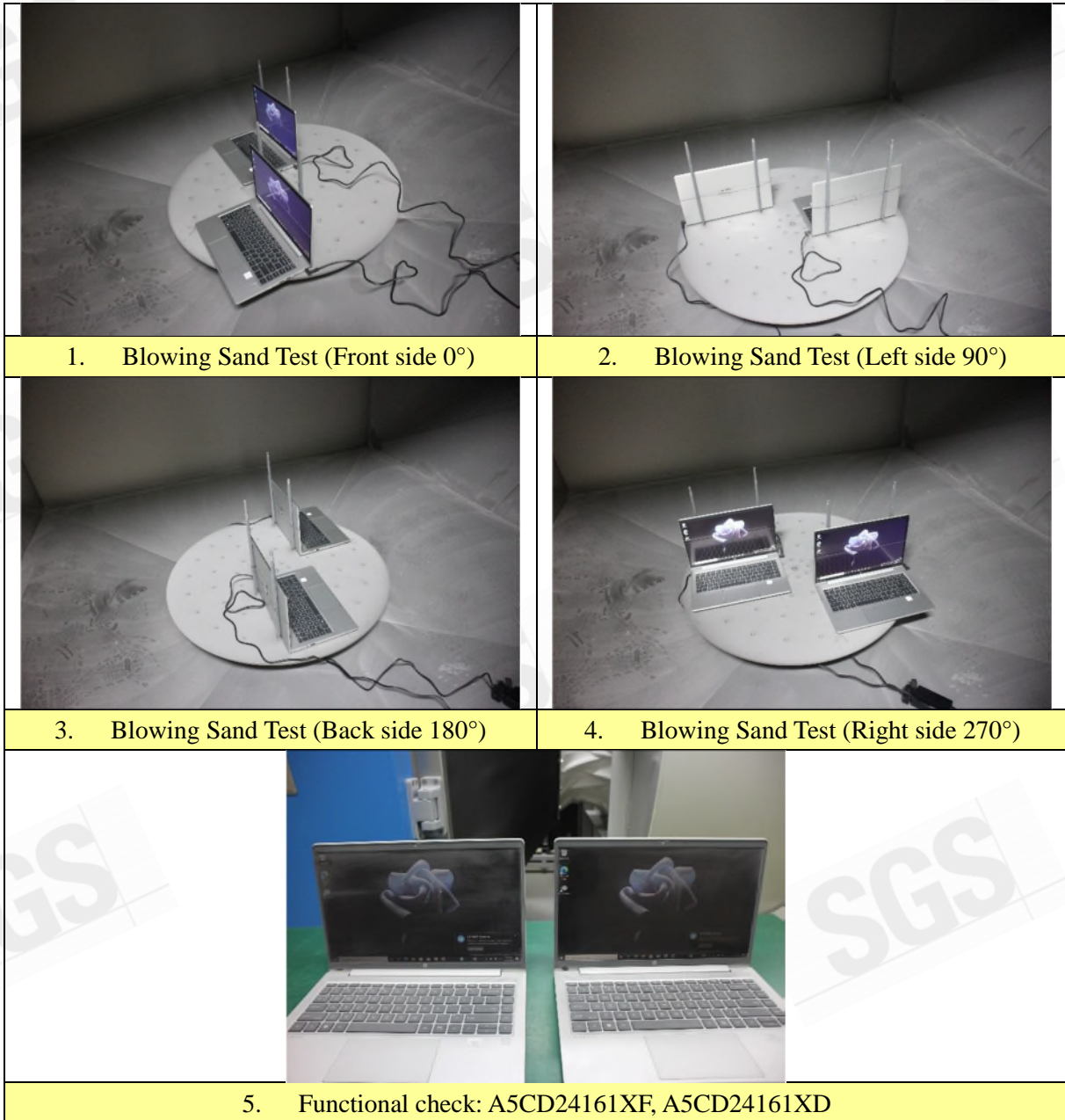
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XF		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XD		No visible damage	Normal

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Test Photos:



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TEST REPORT

16. Freeze/ Thaw Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	GIANT FORCE	GTH-800-40-CP-AR	MAA2003-007
Programmable Temperature & Humidity Chamber	GIANT FORCE	GTH-800-40-CP-AR	MAA2003-002

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$
 Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location: No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan.

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 524.1, Procedure III and client's request

Step	Temperature (°C)	Humidity (%RH)	Time (minutes)
1	25	95	120
2	25→-10	95→—	<5
3	-10	—	120*
4	-10→25	—→95	<5
5	25	95	120
6	-10→25	—→95	<5
7	-10	—	120*
8	-10→25	—→95	<5
9	25	95	120
10	25→-10	95→—	<5
11	-10	—	120*
12	-10→25	95→55	—*

Test cycles: Total 1 cycle.

Note: * Perform functional check at the end of step 3, step 7, step 11 and after test.

- Sample condition: Non-Operating
- Examine the appearance of specimen(s) by visual check and perform functional after this test.
- Functional Check: Turn on the power of specimen(s) then examine whether the booting function of specimen(s) could be work normally or not.

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TEST REPORT

Report No.: HXO0026/2022

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK

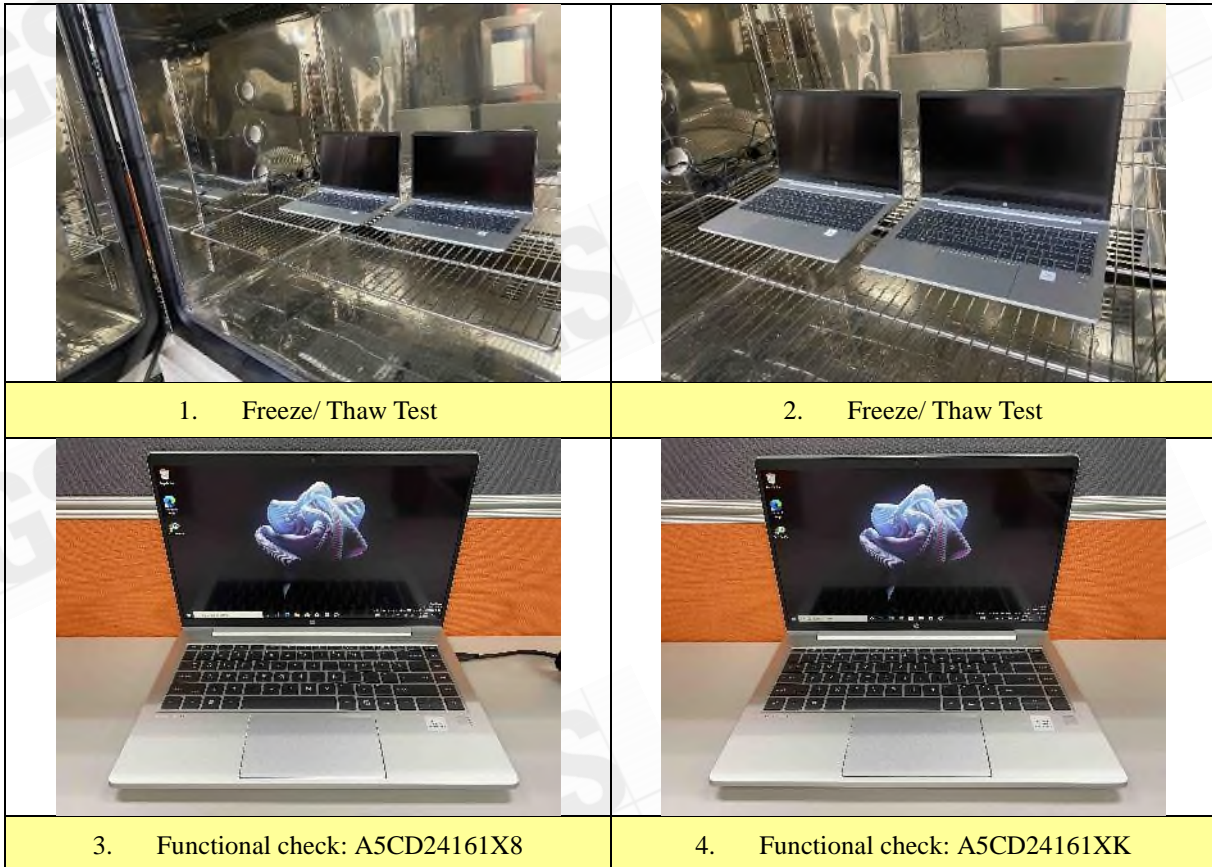
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK		No visible damage	Normal

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Test Photos:



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TEST REPORT

Report No.: HXO0026/2022

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17. Bench Handling Test:

Test Equipment:

Name	Brand	Model	Serial No.
Measuring Tape	HOL	Y5525-CB	001

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location:

No.17, Wu Chyuan 8th Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan.

Test Method/ Specification:

Test Method: MIL-STD-810H:2019, Method 516.8, Procedure VI and client's request

Sample Condition: Operating

Drop Height: The lifted edge of the chassis has been raised 100 mm (4 in) above the horizontal bench top.

Test face: Top down, Bottom down

Test cycles: Total 8 drops (each edge 1 drop)

Test surface: 2 inches of plywood

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen and then examine whether the booting function of specimen could be work normally or not.

TEST REPORT

Report No.: HXO0026/2022

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X7,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XJ







Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X7	No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XJ	No visible damage	Normal





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Test Photos:

	
1. Bench Handling Test	2. Bench Handling Test
	
3. Bench Handling Test	4. Bench Handling Test
	
5. Bench Handling Test	6. Bench Handling Test

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Test Photos--Continued:

	
<p>7. Bench Handling Test</p>	<p>8. Bench Handling Test</p>
	
<p>9. Functional check: A5CD24161X7</p>	<p>10. Functional check: A5CD24161XJ</p>

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18. Crash Hazard Shock Test:

Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	95-115D	M17656
Data Acquisition & Analysis System	LANSMONT	TP4 8A-CH SML 1115-001	1115-001
ICP Accelerometer	PCB	353M288	196437

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location:

No.33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 516.8, Procedure V and client's request

Sample condition: Non-Operating

Pulse shape: Sawtooth

Acceleration: 75 g

Pulse duration: 6 ms

Shock direction: 6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes)

No. of shock: 2 shocks/ face (total 12 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen and then examine whether the booting function of specimen could be work normally or not.

TEST REPORT

Report No.: HXO0026/2022

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8,
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK

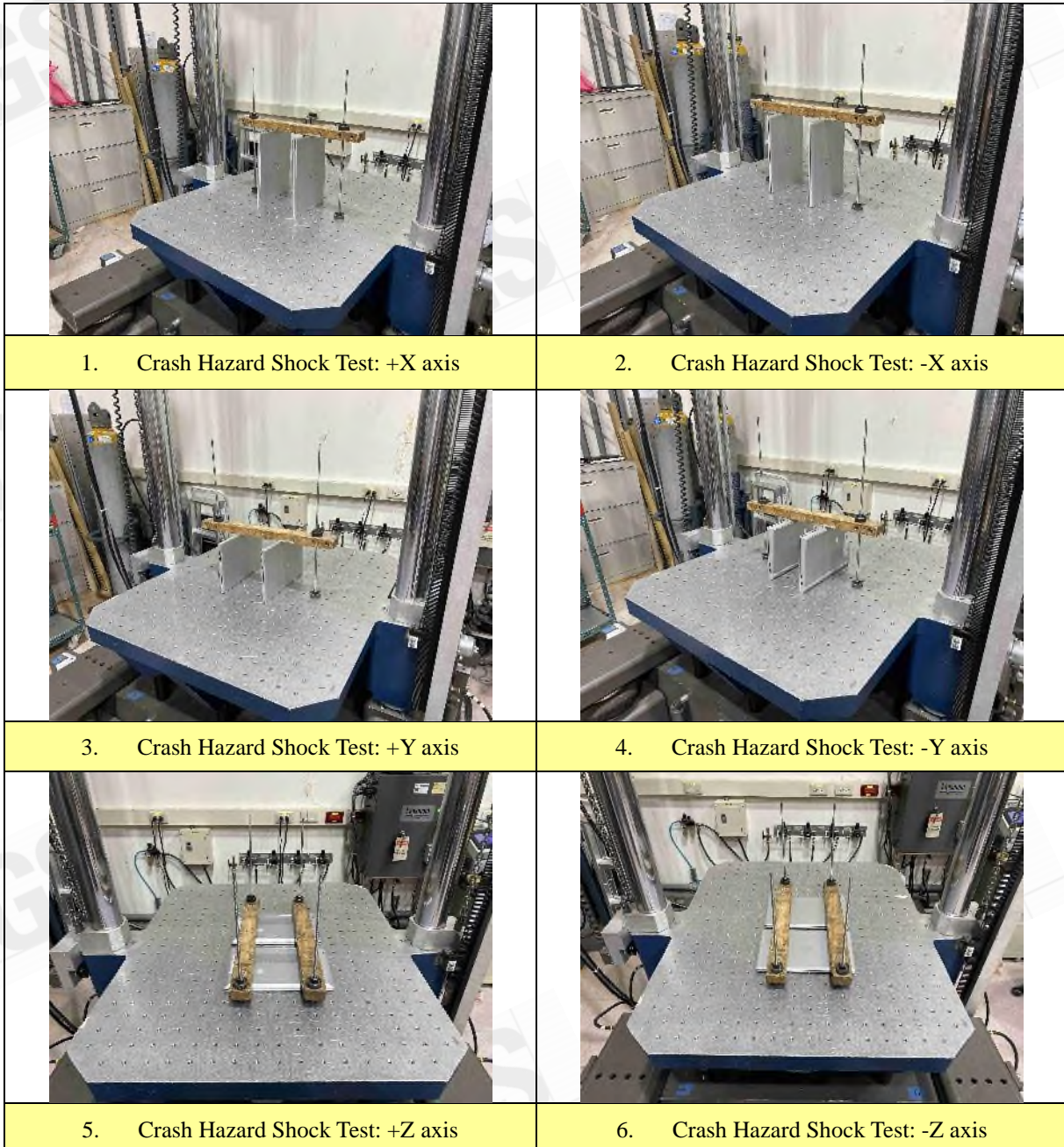
Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X8		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161XK		No visible damage	Normal



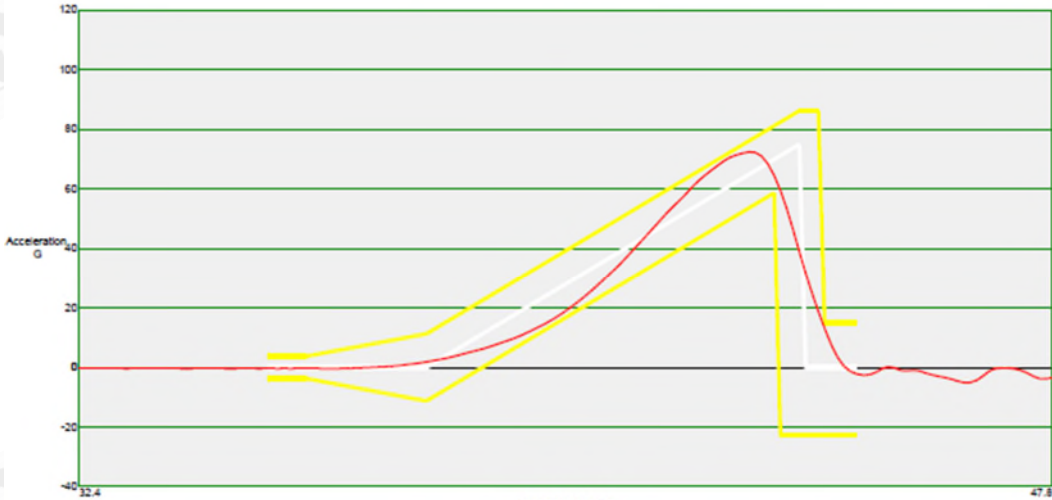
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Test Photos:



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Test Photos--Continued:

															
<p>7. Functional Check: A5CD24161X8</p>	<p>8. Functional Check: A5CD24161XK</p>														
 <table border="1" data-bbox="269 1507 1326 1570"> <thead> <tr> <th>Channel</th> <th>Description</th> <th>Fit Status</th> <th>Acceleration G</th> <th>Duration msec</th> <th>Waveform</th> <th>Spec</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Table Input</td> <td>In Band</td> <td>75.00</td> <td>6.00</td> <td>SawTooth</td> <td>810C</td> </tr> </tbody> </table>		Channel	Description	Fit Status	Acceleration G	Duration msec	Waveform	Spec	1	Table Input	In Band	75.00	6.00	SawTooth	810C
Channel	Description	Fit Status	Acceleration G	Duration msec	Waveform	Spec									
1	Table Input	In Band	75.00	6.00	SawTooth	810C									
<p>9. Shock pulse response for Crash Hazard Shock: $\pm X$, $\pm Y$, $\pm Z$ axis</p>															

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TEST REPORT

19. Transportation Shock Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Location:

No.31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test method: MIL-STD-810H:2019, Method 516.8, Procedure II, Table 516.8-VII and client's request

Sample condition: Packaged

Pulse shape: Sawtooth

Acceleration (g)	Number of Shocks
5.1	42
6.4	21
7.6	3

Pulse duration: 11 ms

Shock direction: 6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen and then examine whether the booting function of specimen could be work normally or not.

TEST REPORT

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Specimen:

Style/ Item No.: HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5,

HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9







Quantity: Total 2 sets

Test Result:

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional Check
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X5		No visible damage	Normal
HP ProBook 440 14 inch G10 Notebook PC/ A5CD24161X9		No visible damage	Normal

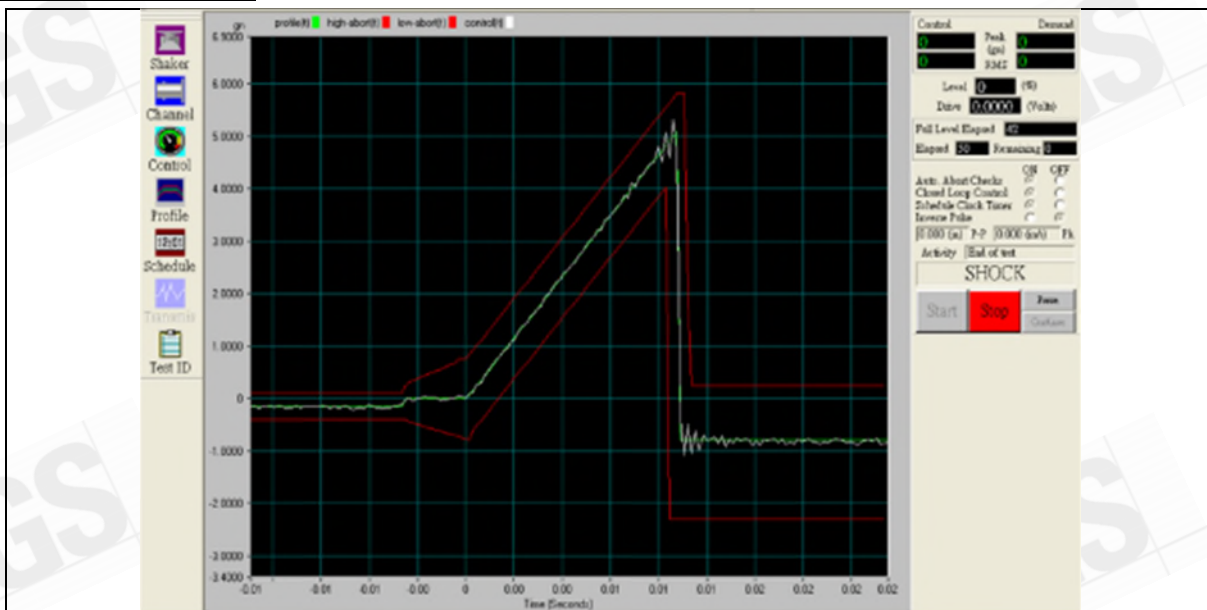
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Test Photos:

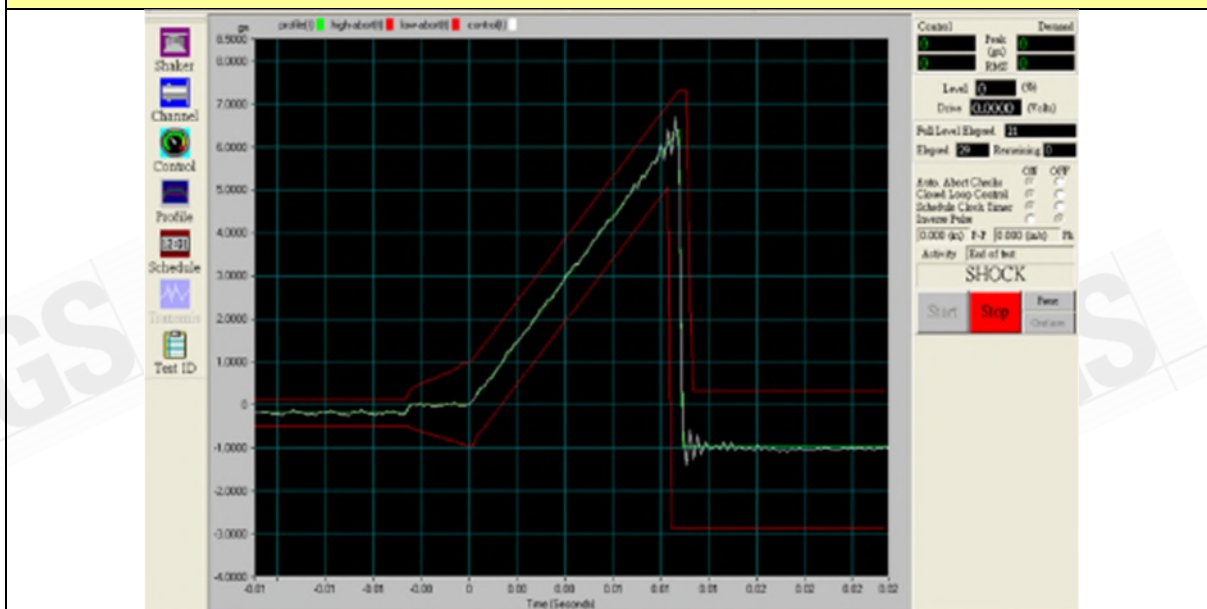
	
<p>1. Appearance of carton</p>	<p>2. Transportation Shock Test: $\pm X$ axis</p>
	
<p>3. Transportation Shock Test: $\pm Y$ axis</p>	<p>4. Transportation Shock Test: $\pm Z$ axis</p>
	
<p>5. Functional Check: A5CD24161X5</p>	<p>6. Functional Check: A5CD24161X9</p>

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Test Photos--Continued:



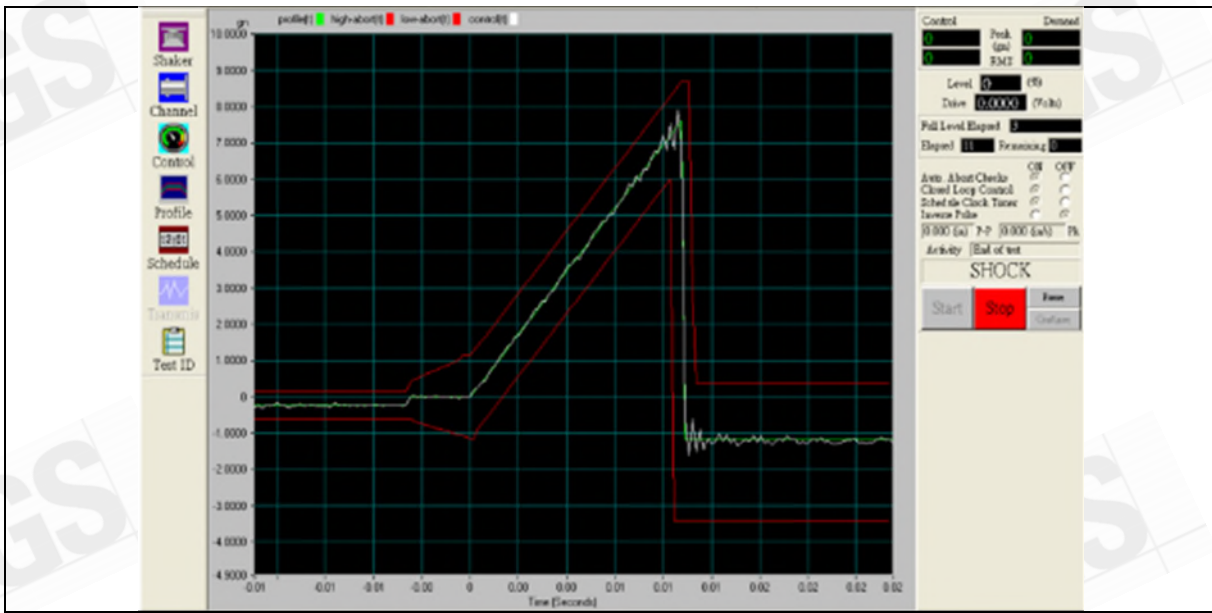
7. Shock pulse response for Transportation Shock Test: 5.1g 11ms



8. Shock pulse response for Transportation Shock Test: 6.4g 11ms

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Test Photos--Continued:



9. Shock pulse response for Transportation Shock Test: 7.6g 11ms

— — — The End of Test Report — — —

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