TEST REPORT

Product Name : Notebook
Model Number : ONIX SERIES

Prepared for	:	COMPUMAX COMPUTER SAS
Address	:	AVENIDA TRONCAL DE OCCIDENTE # 20-85 . Manzana 6 , Bodega 2 , lote 34.
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
Address	:	Room A301, 3rd floor in Fortune Center, No.13 Zongbu Er Road, Songshan Lake High-Technology Industrial Development Zone, Dongguan, Guangdong, China Tel: +86-769-22807078 Fax: +86-769-22807079
Report Number	:	EDG2206130081R00101R
Date(s) of Tests	:	2022.06.15 to 2022.06.20
Date of Issue	:	2022.06.22

Applicant : COMPUMAX COMPUTER SAS

Address : AVENIDA TRONCAL DE OCCIDENTE # 20-85 . Manzana 6 , Bodega 2 , lote 34.

Sample Name : Notebook

Model Number : ONIX SERIES

Sample Quantity : 8PCS

Date of Received : 2022.06.14

Test Summary

No.	Test Item	Test Standard	Test Conclusion
1	Low pressure storage test	MIL-STD-810H-2019 Method 500.6	Pass
2	Low pressure operation test	MIL-STD-810H-2019 Method 500.6	Pass
3	High temperature storage test	MIL-STD-810H-2019 Method 501.7	Pass
4	High temperature operation test	MIL-STD-810H-2019 Method 501.7	Pass
5	Low temperature storage test	MIL-STD-810H-2019 Method 502.7	Pass
6	Low temperature operation test	MIL-STD-810H-2019 Method 502.7	Pass
7	Temperature shock test	MIL-STD-810H-2019 Method 503.7	Pass
8	Vibration test	MIL-STD-810H-2019 Method 514.8	Pass

Remark:

Pass: Test item meet the requirement;

Fail: Test item does not meet the requirement;

N/A: Test case does not apply to the test object, or provide test results only.

Signed for and on behalf of
EMTEK (Dongguan) Co., Ltd.

Inspected by: Mo Yaohao
Inspected engineer

Reviewed by: Li Lijuan
Reviewed director

Approved by: Leo. zhang
Authorized signatory

EMTEK (DONGGUAN) CO.,LTD. TESTING

1. **Test Item:** Low pressure storage test

1.1 **Sample No.:** E2206130081-01

1.2 **Test Equipment(s):**

Name	Model	Serial No.	Valid Date to
Low pressure test chamber	HD-E810	E-R-048	2022.09.06

1.3 **Laboratory Conditions:** Temperature:25.0℃; Humidity: 54.0%RH

1.4 **Test Standard:** MIL-STD-810H-2019 Method 500.6

1.5 **Test Conditions:**

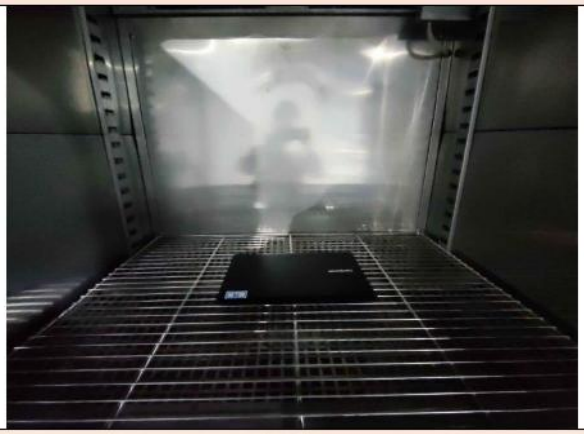
Sample status:	Unpackaged, out of operation
Test pressure (altitude):	4572m (15000ft), 57.1kPa
Test duration:	1h

1.6 **Judge Criteria:** After the test, the appearance, structure and basic properties of the samples should be normal.

1.7 **Test Result(s):**

Sample No.	Test Result	Test Conclusion
E2206130081-01	After the test, the appearance, structure and basic properties of the samples is normal.	Pass

1.8 Test Photo(s)

	
Before test	Before test
	
Testing	Interface of test temperature
	
After test	After test

2. Test Item: Low pressure operation test

2.1 Sample No.: E2206130081-02

2.2 Test Equipment(s):

Name	Model	Serial No.	Valid Date to
Low pressure test chamber	HD-E810	E-R-048	2022.09.06

2.3 Laboratory Conditions: Temperature: 25.0℃; Humidity: 54.0%RH

2.4 Test Standard: MIL-STD-810H-2019 Method 500.6

2.5 Test Conditions:

Sample status:	Unpackaged, operating
Test pressure (altitude):	4572m (15000ft), 57.1kPa
Test duration:	1h

2.6 Judge Criteria: After the test, the appearance, structure and basic properties of the samples should be normal.

2.7 Test Result(s):

Sample No.	Test Result	Test Conclusion
E2206130081-02	After the test, the appearance, structure and basic properties of the samples is normal.	Pass

2.8 Test Photo(s)

	
Before test	Before test
	
Testing	Interface of test temperature
	
After test	After test

3. **Test Item:** High temperature storage test

3.1 **Sample No.:** E2206130081-03

3.2 **Test Equipment(s):**

Name	Model	Serial No.	Valid Date to
High and Low Temperature Humidity and Heat Alternating Test Chamber	EL-10KA	E-R-132	2022.08.17

3.3 **Laboratory Conditions:** Temperature: 25.0℃; Humidity: 54.0%RH

3.4 **Test Standard:** MIL-STD-810H-2019 Method 501.7

3.5 **Test Conditions:**

Sample status:	Unpackaged, out of operation
Test temperature:	63℃
Temperature change rate:	3℃/min
Test duration:	24h

3.6 **Judge Criteria:** After the test, the appearance, structure and basic properties of the samples should be normal.

3.7 **Test Result(s):**

Sample No.	Test Result	Test Conclusion
E2206130081-03	After the test, the appearance, structure and basic properties of the samples is normal.	Pass

3.8 Test Photo(s)

	
Before test	Before test
	
Testing	Interface of test temperature
	
After test	After test

4. Test Item: High temperature operation test

4.1 Sample No.: E2206130081-04

4.2 Test Equipment(s):

Name	Model	Serial No.	Valid Date to
Ambient temperature chamber	HD-E702-1000K70	E-R-054	2022.09.05

4.3 Laboratory Conditions: Temperature: 25.0℃; Humidity: 54.0%RH

4.4 Test Standard: MIL-STD-810H-2019 Method 501.7

4.5 Test Conditions:

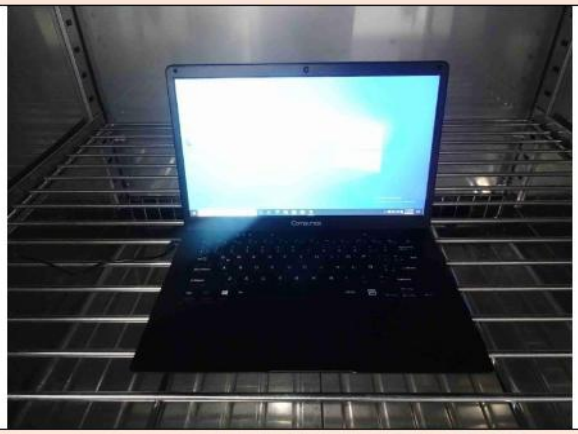
Sample status:	Unpackaged, operating
Test temperature:	43℃
Temperature change rate:	3℃/min
Test duration:	24h

4.6 Judge Criteria: After the test, the appearance, structure and basic properties of the samples should be normal.

4.7 Test Result(s):

Sample No.	Test Result	Test Conclusion
E2206130081-04	After the test, the appearance, structure and basic properties of the samples is normal.	Pass

4.8 Test Photo(s)

	
Before test	Before test
	
Testing	Interface of test temperature
	
After test	After test

5. Test Item: Low temperature storage test

5.1 Sample No.: E2206130081-05

5.2 Test Equipment(s):

Name	Model	Serial No.	Valid Date to
Ambient temperature chamber	HD-E702-1000K70	E-R-054	2022.09.05

5.3 Laboratory Conditions: Temperature: 25.0℃; Humidity: 54.0%RH

5.4 Test Standard: MIL-STD-810H-2019 Method 502.7

5.5 Test Conditions:

Sample status:	Unpackaged, out of operation
Test temperature:	-25℃
Temperature change rate:	3℃/min
Test duration:	24h

5.6 Judge Criteria: After the test, the appearance, structure and basic properties of the samples should be normal.

5.7 Test Result(s):

Sample No.	Test Result	Test Conclusion
E2206130081-05	After the test, the appearance, structure and basic properties of the samples is normal.	Pass

5.8 Test Photo(s)

	
Before test	Before test
	
Testing	Interface of test temperature
	
After test	After test

6. Test Item: Low temperature operation test

6.1 Sample No.: E2206130081-06

6.2 Test Equipment(s):

Name	Model	Serial No.	Valid Date to
Ambient temperature chamber	HD-E702-1000K70	E-R-054	2022.09.05

6.3 Laboratory Conditions: Temperature: 25.0℃; Humidity: 54.0%RH

6.4 Test Standard: MIL-STD-810H-2019 Method 502.7

6.5 Test Conditions:

Sample status:	Unpackaged, operating
Test temperature:	-21℃
Temperature change rate:	3℃/min
Test duration:	2h

6.6 Judge Criteria: After the test, the appearance, structure and basic properties of the samples should be normal.

6.7 Test Result(s):

Sample No.	Test Result	Test Conclusion
E2206130081-06	After the test, the appearance, structure and basic properties of the samples is normal.	Pass

6.8 Test Photo(s)

	
Before test	Before test
	
Testing	Interface of test temperature
	
After test	After test

7. Test Item: Temperature shock test

7.1 Sample No.: E2206130081-07

7.2 Test Equipment(s):

Name	Model	Serial No.	Valid Date to
Two-chamber cold and hot shock chamber	HD-E703	E-R-045	2022.10.18

7.3 Laboratory Conditions: Temperature: 25.0℃; Humidity: 54.0%RH

7.4 Test Standard: MIL-STD-810H-2019 Method 503.7

7.5 Test Conditions:

Sample status:	Unpackaged, out of operation
Test high temperature:	63℃ keep 1h
Test low temperature:	-25℃ keep 1h
Temperature conversion time:	<30s
Test cycle:	3cycles

7.6 Judge Criteria: After the test, the appearance, structure and basic properties of the samples should be normal.

7.7 Test Result(s):

Sample No.	Test Result	Test Conclusion
E2206130081-07	After the test, the appearance, structure and basic properties of the samples is normal.	Pass

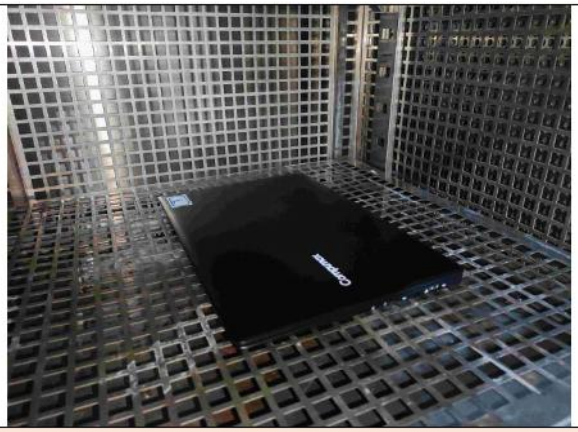
7.8 Test Photo(s)



Before test



Before test

	
Testing	Interface of test temperature
	
Interface of test temperature	After test
	/
After test	/

8. Test Item: Vibration test

8.1 Sample No.: E2206130081-08

8.2 Test Equipment(s):

Name	Model	Serial No.	Valid Date to
Vibration testing machine	DC-10000-100	E-R-038	2022.12.06

8.3 Laboratory Conditions: Temperature: 25.0℃; Humidity: 54.0%RH

8.4 Test Standard: MIL-STD-810H-2019 Method 514.8

8.5 Test Conditions:

Sample status:	Unpackaged, out of operation
Frequency:	5-500Hz
Test direction:	X, Y, Z axis
Test duration:	1h per axis

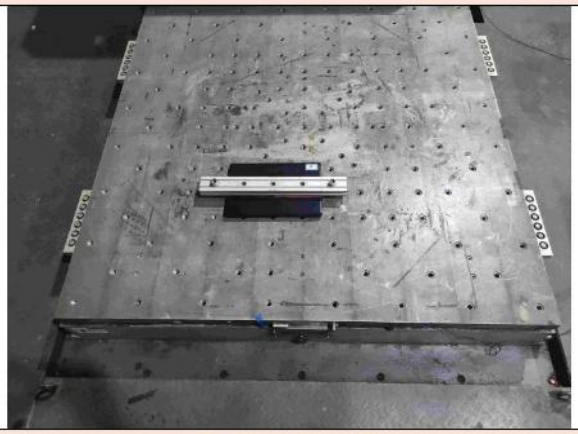
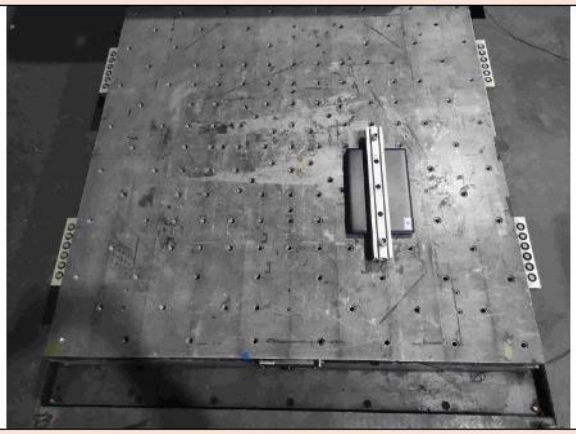
Vertical (Z axis)		Crosswise (X axis)		Lengthways (Y axis)	
Frequency (Hz)	PSD (g^2/Hz)	Frequency (Hz)	PSD (g^2/Hz)	Frequency (Hz)	PSD (g^2/Hz)
5	0.015	5	0.00013	5	0.0065
40	0.015	10	0.00013	20	0.0065
500	0.00015	20	0.00065	120	0.0002
Rms=1.08g		30	0.00065	121	0.003
		78	0.00002	200	0.003
		79	0.00019	240	0.0015
		120	0.00019	340	0.00003
		500	0.00001	500	0.00015
		Rms=0.21g		Rms=0.76g	

8.6 Judge Criteria: After the test, the appearance and structure of the samples should be normal.

8.7 Test Result(s):

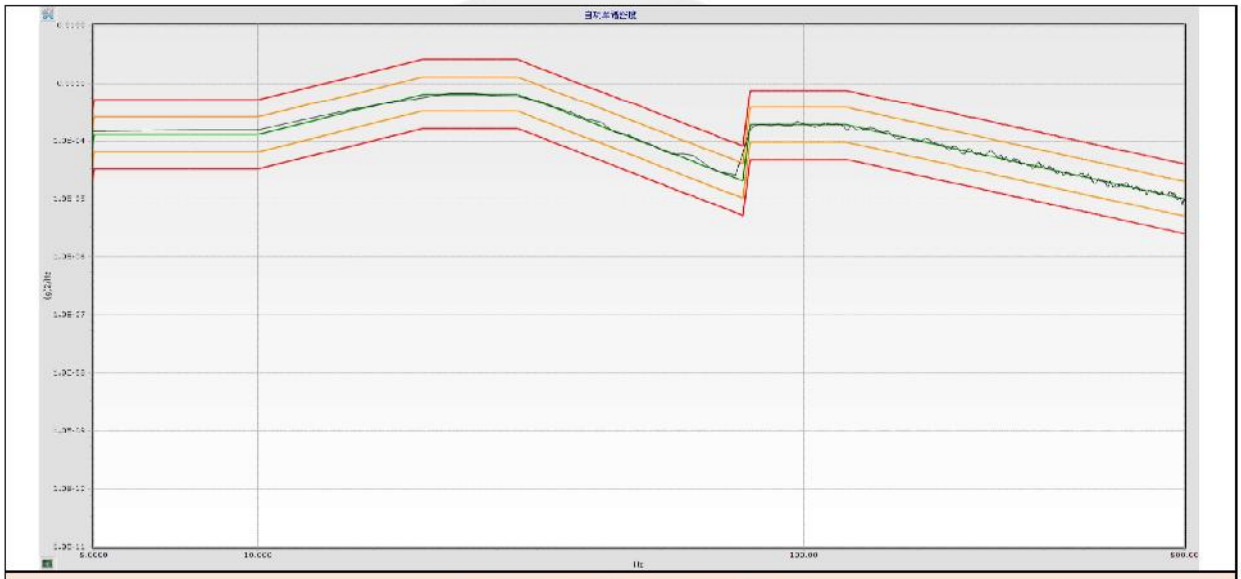
Sample No.	Test Result	Test Conclusion
E2206130081-08	After the test, the specimen appearance and structure is normal.	Pass

8.8 Test Photo(s)

	
Before test	Check function before test
	
Testing (X axis)	Testing (Y axis)
	
Testing (Z axis)	After test

	/
Check function after test	/

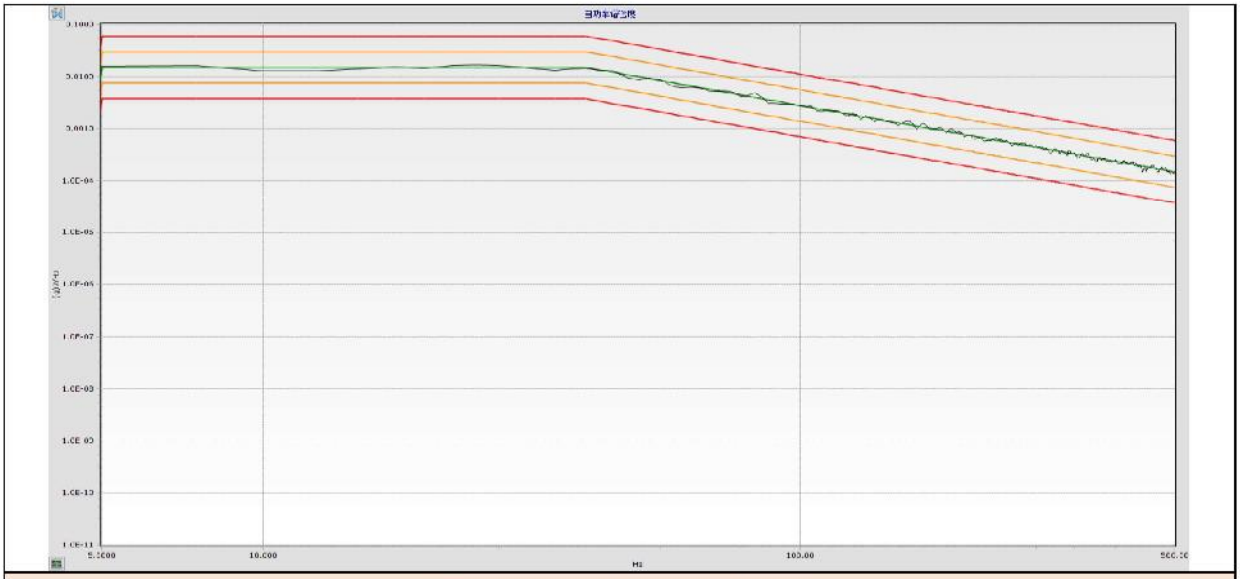
8.9 Test curve



Test curve of vibration (X axis)



Test curve of vibration (Y axis)



Test curve of vibration (Z axis)

*** End of Report ***

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