

SHENZHEN EMDOOR INFORMATION CO.,LTD.

**3/F,BLD 5TH,MEI SHENG HUI GU PARK, NO.83 DABAO RD,XIN'AN SUB-DISTRICT, BAO'AN DISTRICT,
SHENZHEN518033, GUANGDONG PROVINCE, CHINA**

Sample Description: Rugged Notebook
Style / Item No.: EM-X14
Manufacturer: Shenzhen Emdoor Information Co.,Ltd.

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Sample Quantity: 1 pc(s)
Date of Receipt: 2019-09-20
Testing Start Date: 2019-09-20
Testing End Date: 2019-10-08
Test Requirement: For further details, please refer to the following page(s)
Test Method: For further details, please refer to the following page(s)
Test Result(s): For further details, please refer to the following page(s)
(Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested)

Signed for and on behalf of
SGS-CSTC Ltd. Shenzhen Branch
Reliability Lab

Ares Wen

Ares Wen Authorized signatory



SGS-CSTC Shenzhen Branch Reliability Laboratory
Shenzhen Branch Testing Center Reliability Laboratory

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Summary of Result(s):

No.	Test Item	Test Method	Result	Conclusion
1.	High Temperature	MIL-STD-810G w/Change 1 (2014) Method 501.6 Procedure II and client's requirement	See result	Pass
2.	Low Temperature	MIL-STD-810G w/Change 1 (2014) Method 502.6 Procedure I and client's requirement	See result	Pass
3.	Low Temperature	MIL-STD-810G w/Change 1 (2014) Method 502.6 Procedure II and client's requirement	See result	Pass
4.	Random Vibration Test	MIL-STD-810G w/Change 1 (2014) Method 514.7 and client's requirement	See result	Pass
5.	Transit Drop	MIL-STD-810G w/Change 1 (2014) Method 516.7 Procedure IV and client's requirement	See results	Pass

Note:

Pass: Meet the requirements

Fail: Does not meet the requirements

N/A: Not apply to the judgment



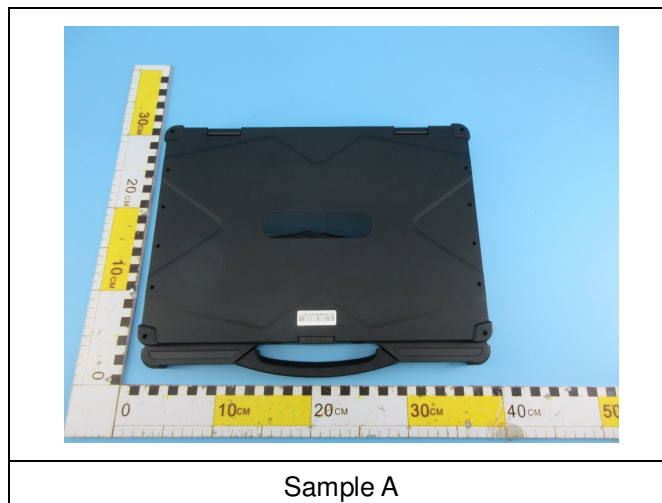
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Original Sample Photo:



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1. Test Item: High Temperature

Sample Description: Laptop computer

Test Method: MIL-STD-810G w/Change 1 (2014) Method 501.6 Procedure II and client's requirement

Test Condition:

Temperature: 60 °C

Duration: 4 h

Test status: Operation

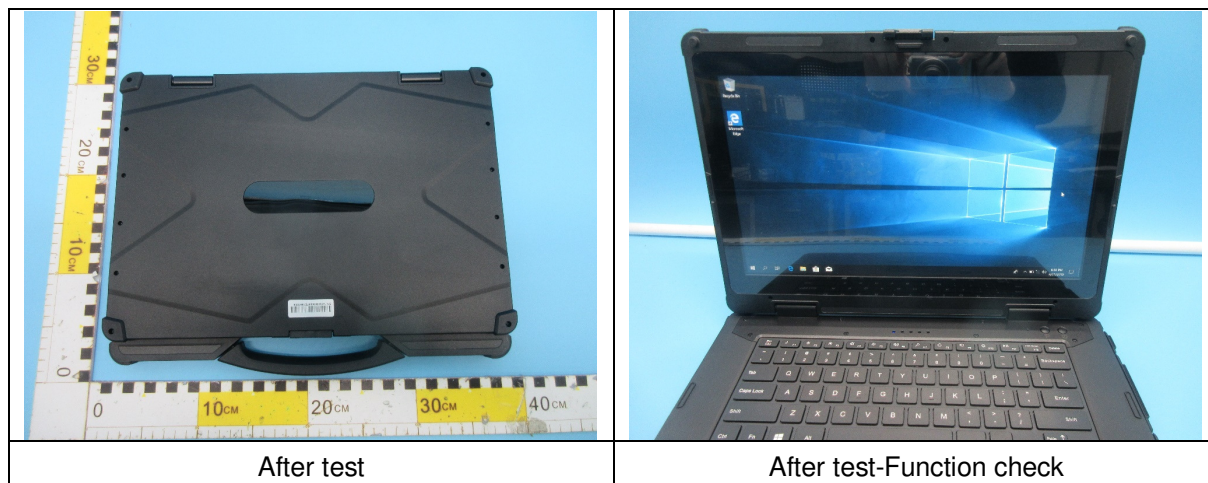
Lab Environment Condition: 15°C ~ 35°C, 25%RH ~ 75%RH

Test Result:

SGS Ref. No.: SZRL2019090248, GZIN1909051545MR

Sample	Result	Client's requirement	Conclusion
A	The tested sample could boot up and display, the function of trackpad and keypad was effective.	The tested sample could boot up and display, the function of trackpad and keypad is effective.	Pass

Test Photo:

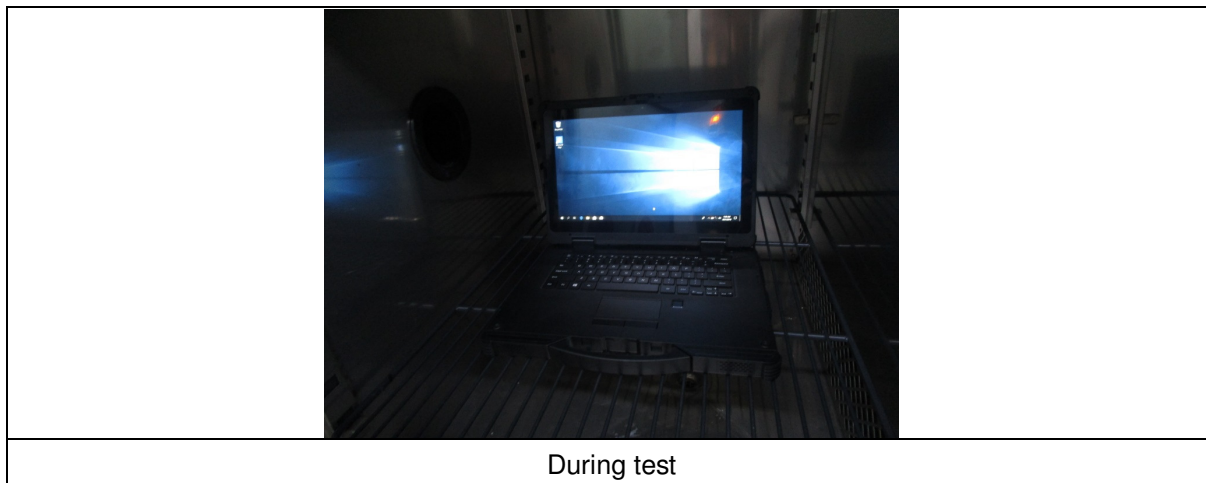


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During test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
High/Low Temperature cyclic and Damp Heat Chamber	KTHC-715 TBS	GZMR-RL-E150	2019-08-12	2020-08-11



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2. Test Item: Low Temperature

Sample Description: Laptop computer

Test Method: MIL-STD-810G w/Change 1 (2014) Method 502.6 Procedure I and client's requirement

Test Condition:

Temperature: -21 °C

Duration: 24 h

Test status: Non-Operation

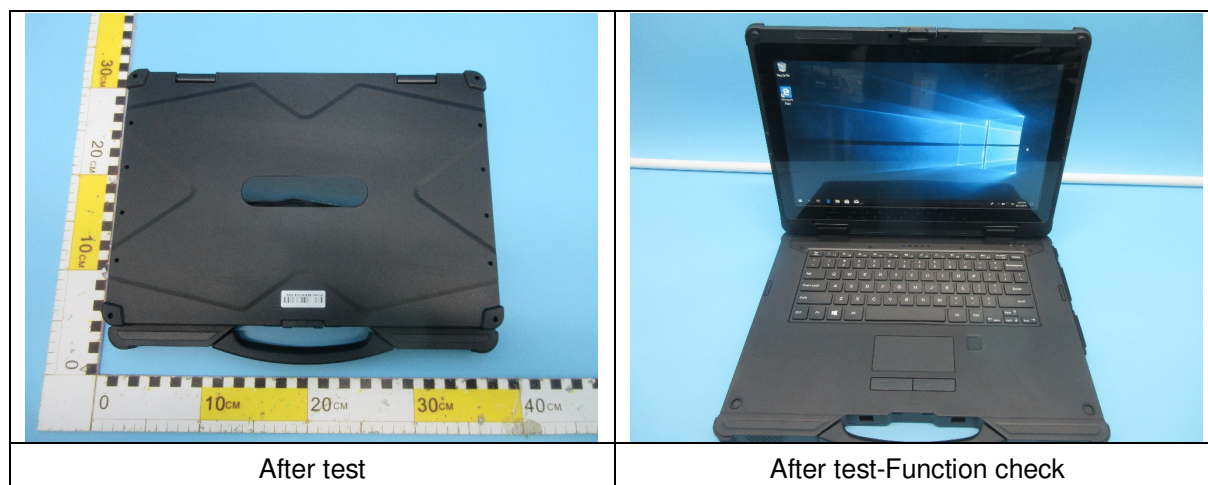
Lab Environment Condition :15°C ~ 35°C, 25%RH ~ 75%RH

Test Result:

SGS Ref. No.: SZRL2019090249, GZIN1909051549MR

Sample	Result	Client's requirement	Conclusion
A	The tested sample could boot up and display, the function of trackpad and keypad was effective.	The tested sample could boot up and display, the function of trackpad and keypad is effective.	Pass

Test Photo:

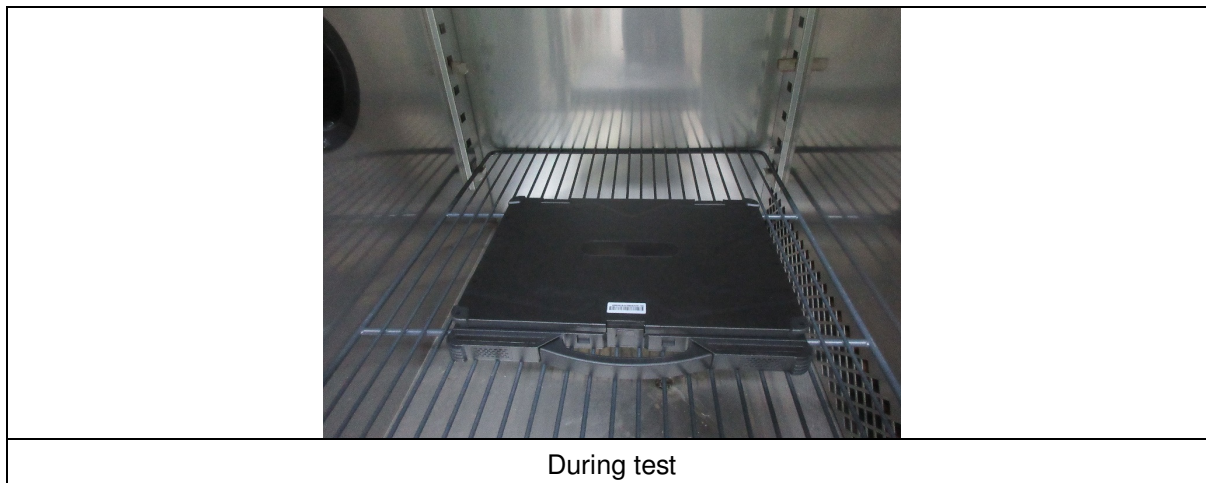


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During test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
High/Low Temperature cyclic and Damp Heat Chamber	KTHC-715 TBS	GZMR-RL-E150	2019-08-12	2020-08-11



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3. Test Item: Low Temperature

Sample Description: Laptop computer

Test Method: MIL-STD-810G w/Change 1 (2014) Method 502.6 Procedure II and client's requirement

Test Condition:

Temperature: -21 °C

Duration: 4 h

Test status: Operation

Lab Environment Condition :15°C ~ 35°C, 25%RH ~ 75%RH

Test Result:

SGS Ref. No.: SZRL2019090249, GZIN1909051549MR

Sample	Result	Client's requirement	Conclusion
A	The tested sample could boot up and display, the function of trackpad and keypad was effective.	The tested sample could boot up and display, the function of trackpad and keypad is effective.	Pass

Test Photo:

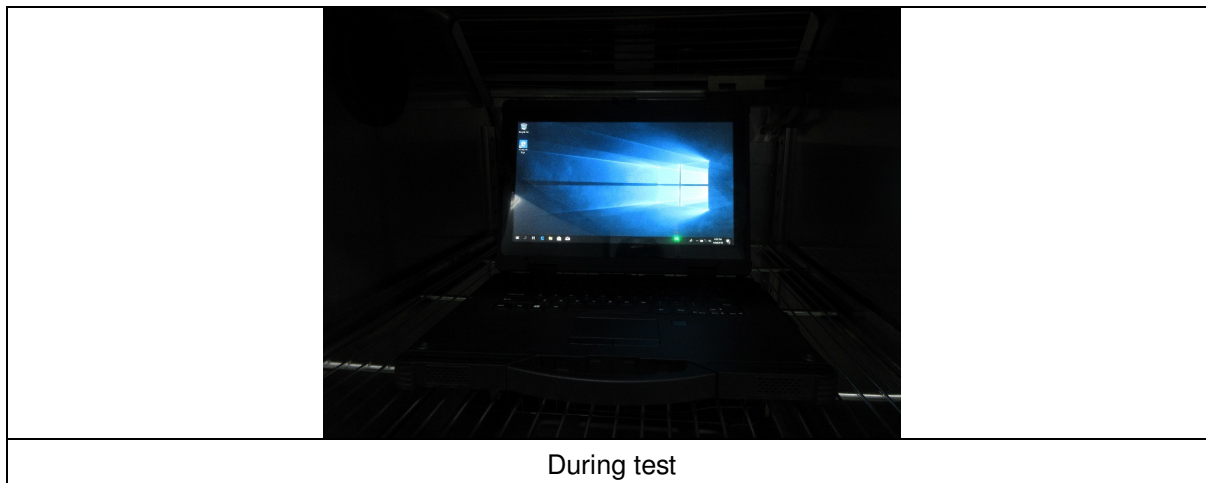


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During test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
High/Low Temperature cyclic and Damp Heat Chamber	SETH-Z-04 2L	GZMR-RL-E101	2019-07-16	2020-07-15



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4. Test Item: Random Vibration Test
Sample Description: Laptop computer
Test Method: MIL-STD-810G w/Change 1 (2014) Method 514.7 and client's requirement
Test Condition:

Longitudinal		Transverse		Vertical	
Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)
10	0.00650	10	0.00013	10	0.01500
20	0.00650	20	0.00065	40	0.01500
120	0.00020	30	0.00065	500	0.00015
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	--	--	--	--
RMS=0.74G		RMS=0.20G		RMS=1.04G	

Test Direction: Longitudinal, Transverse, Vertical
Test Duration: 1 h/axis, Total 3 h
Lab Environment Condition: 15°C~35°C, 25%RH~75%RH
Test Result:
SGS Ref. No.: SZRL2019090250, GZIN1909051550MR

Sample	Result	Client's requirement	Conclusion
A	The tested sample could boot up and display, the function of trackpad and keypad was effective.	The tested sample could boot up and display, the function of trackpad and keypad is effective.	Pass



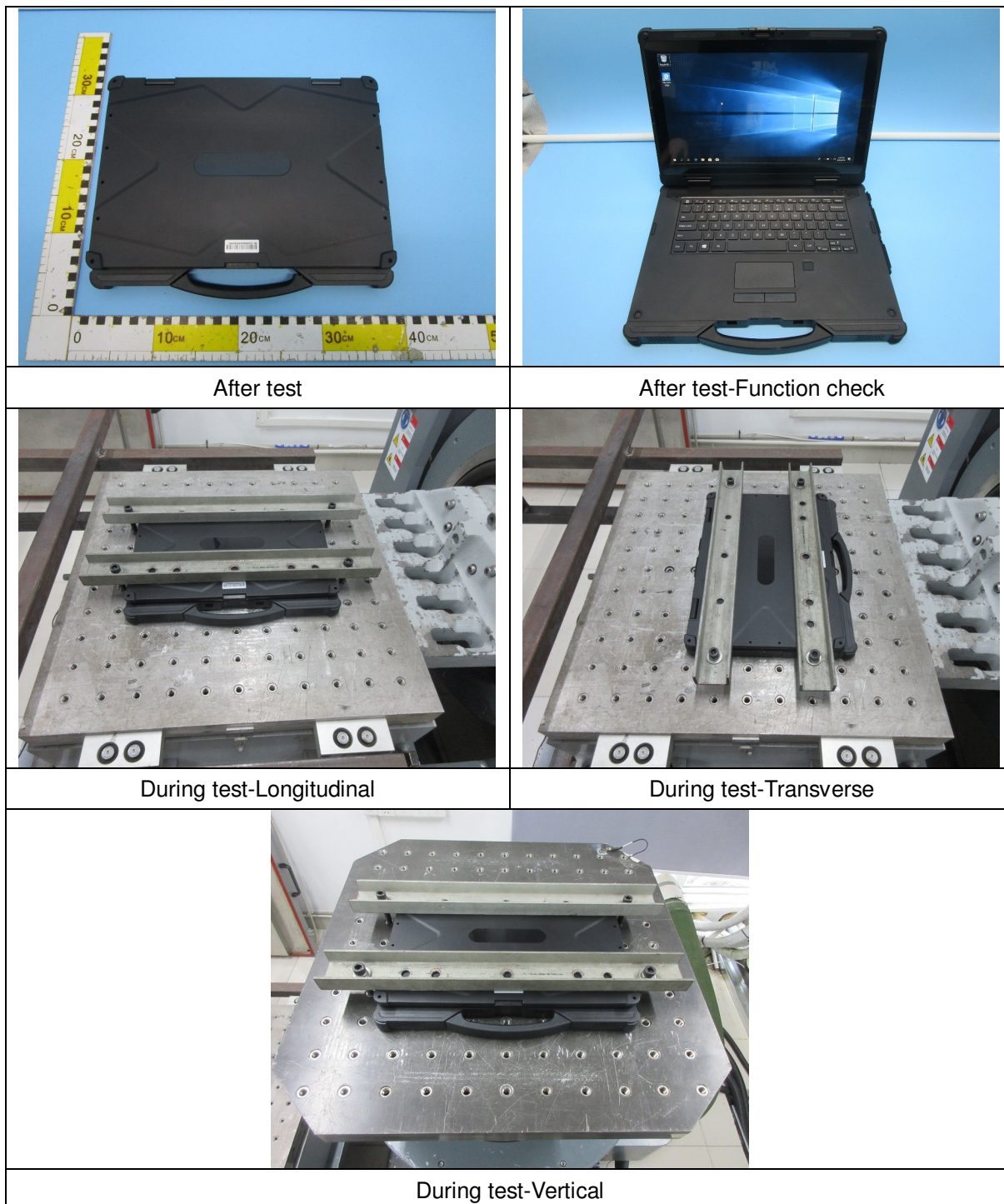
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Test Photo:



After test

After test-Function check

During test-Longitudinal

During test-Transverse

During test-Vertical

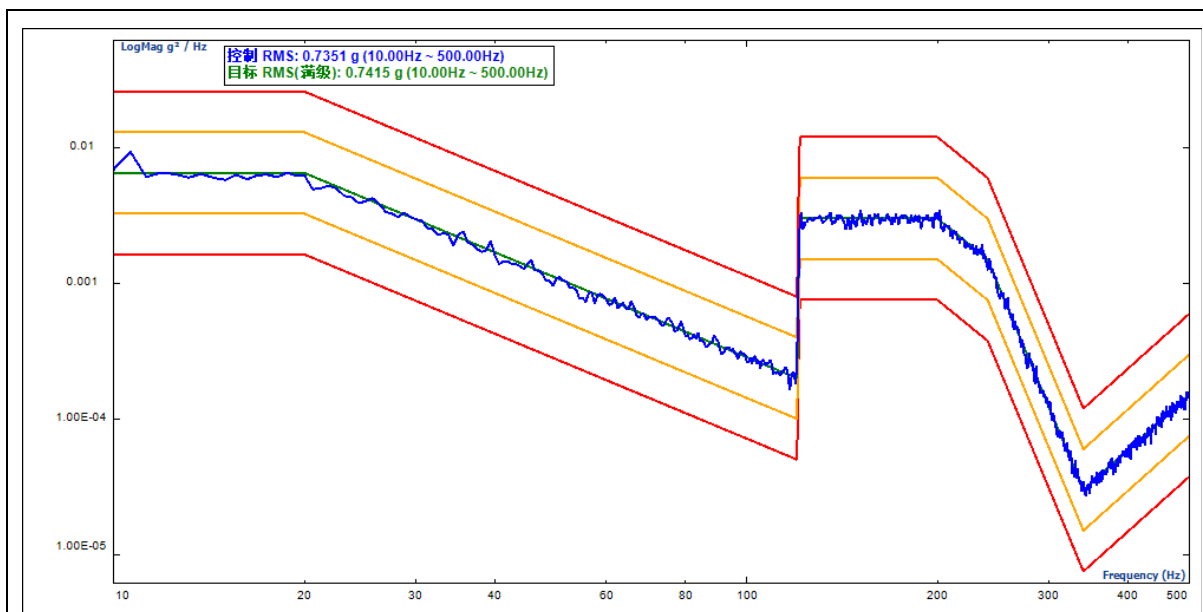


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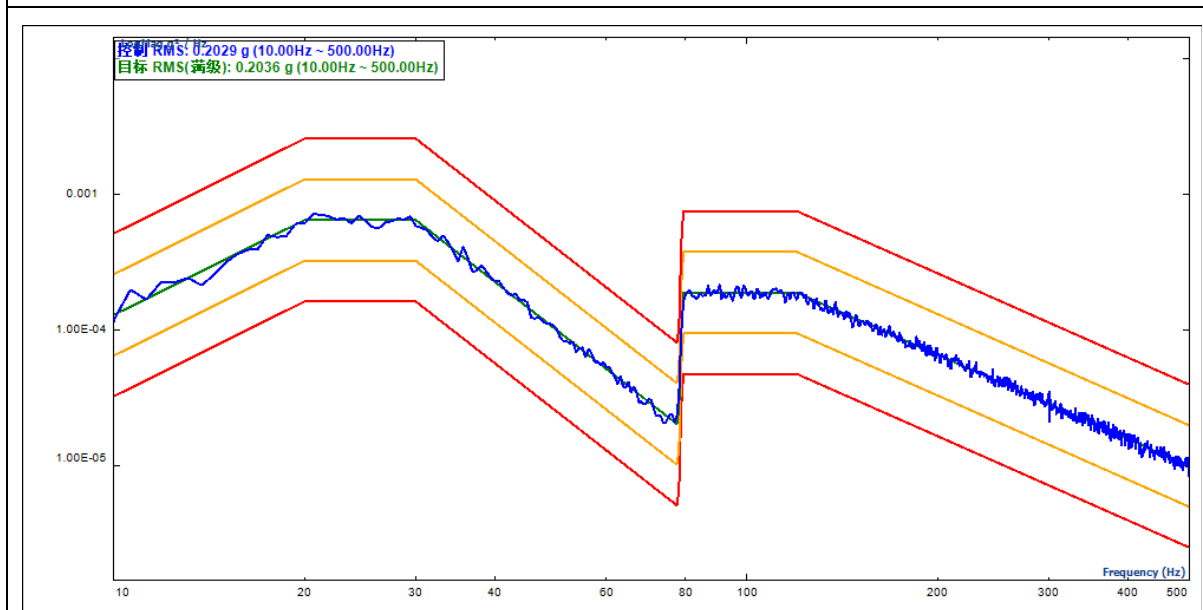
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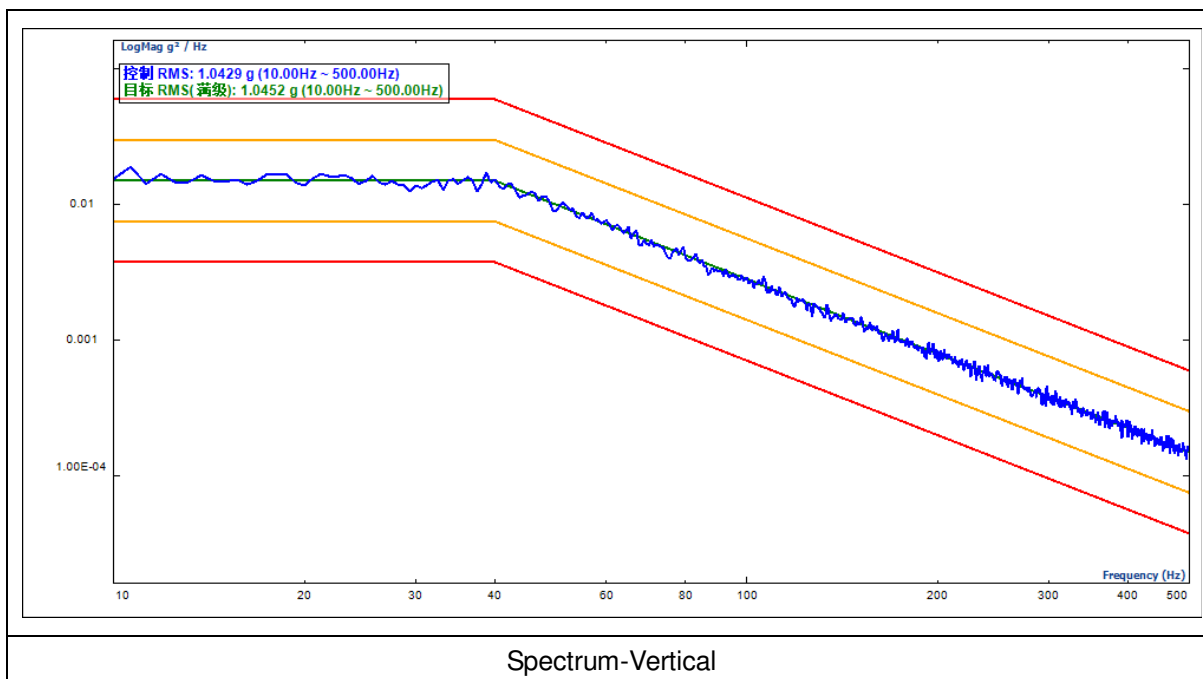


Spectrum-Longitudinal



Spectrum-Transverse





Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electro-dynamic vibration tester	DC-2200-26	GZMR-RL-E144	2019-07-31	2020-07-30



5. Test Item: Transit Drop

Sample Description: Laptop computer

Test Method: MIL-STD-810G w/Change 1 (2014) Method 516.7 Procedure IV and client's requirement Test

Condition:

Drop Height: 122cm

Drop Plane: 5 cm plywood backed by concrete

Drop Times: Drop on each face, edge and corner; total of 26 drops

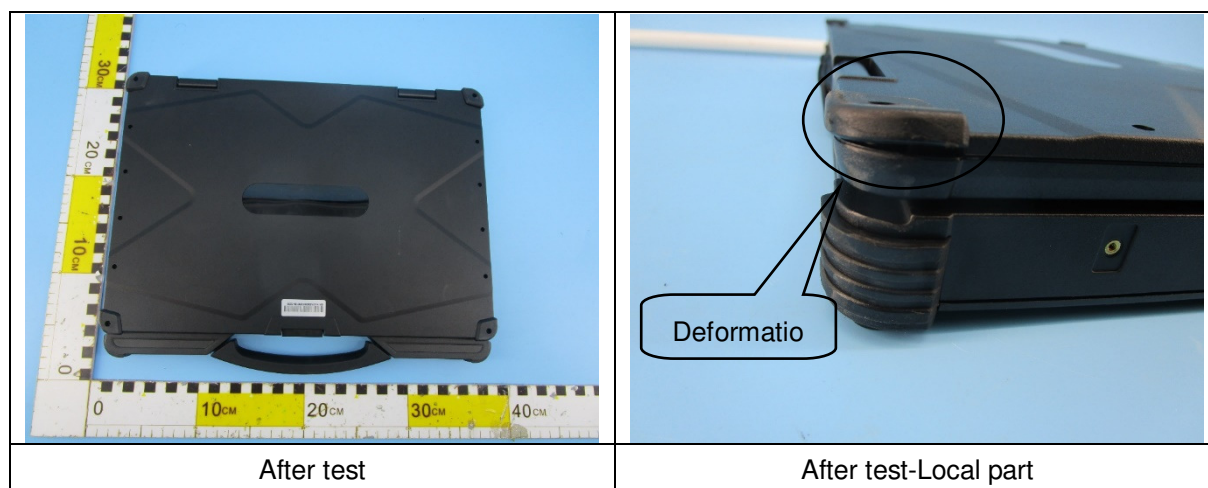
Lab Environment Condition: 15°C ~ 35°C, 25%RH ~ 75%RH

Test Result:

SGS Ref. No.: SZRL2019090251, GZIN1909051552MR

Sample	Result	Client's requirement	Conclusion
A	1.Visible deformation without affecting function. 2.The tested sample could boot up and display, the function of trackpad and keypad was effective.	1.Slight deformation or crack without affecting function is acceptable. 2.The tested sample could boot up and display, the function of trackpad and keypad is effective.	Pass

Test Photo:

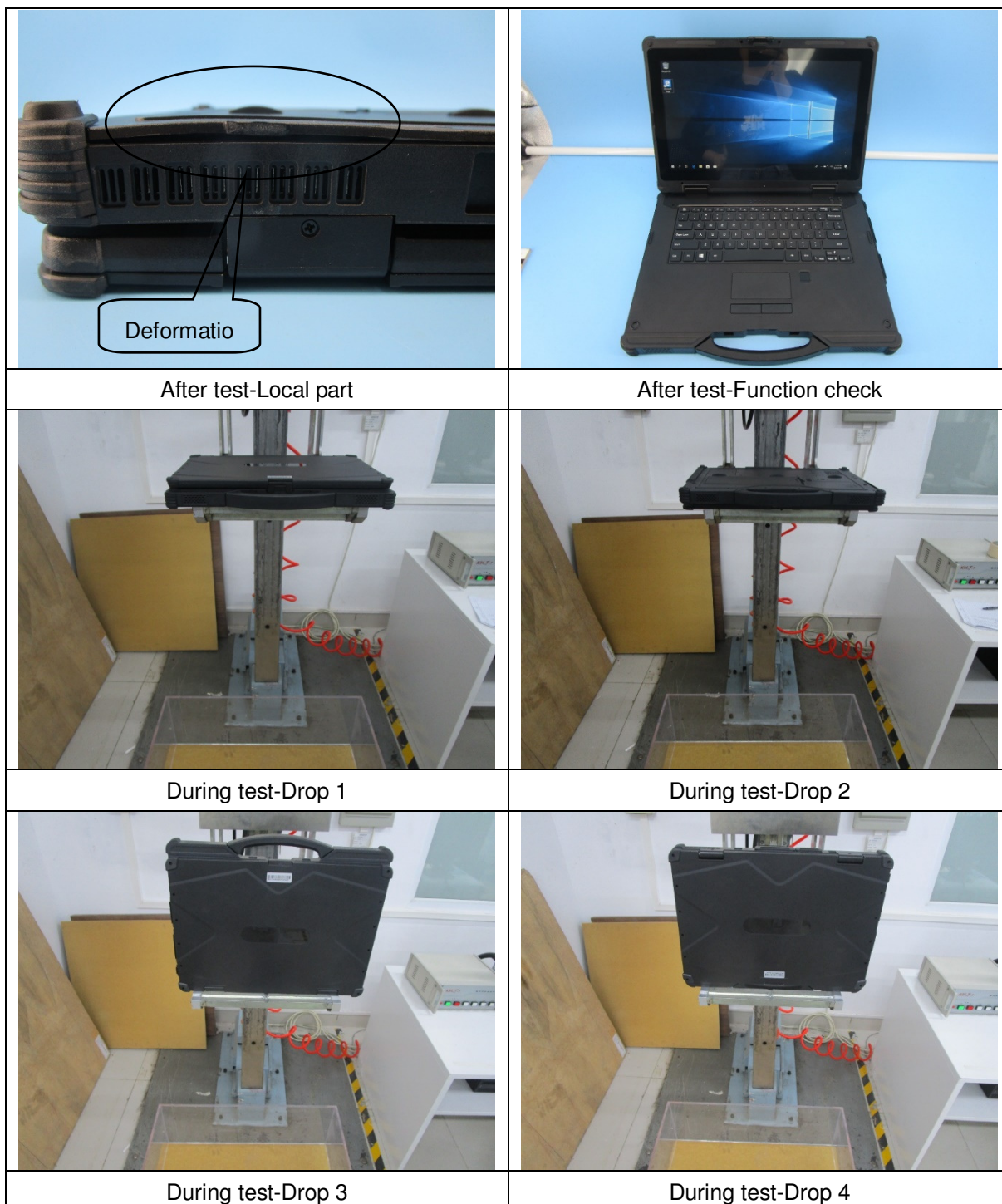


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During test-Drop 5



During test-Drop 6



During test-Drop 7



During test-Drop 8

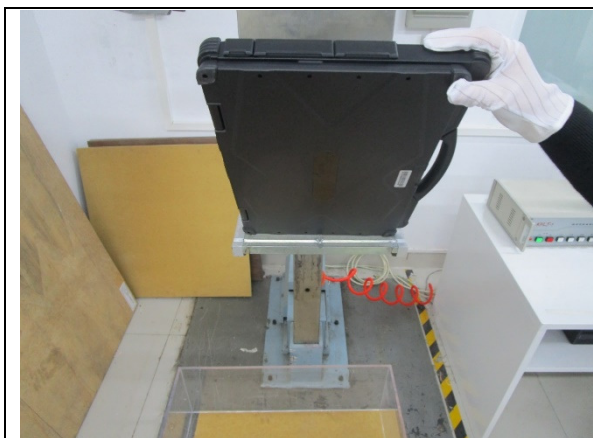


During test-Drop 9



During test-Drop 10





During test-Drop 11



During test-Drop 12



During test-Drop 13



During test-Drop 14



During test-Drop 15



During test-Drop 16



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During test-Drop 17



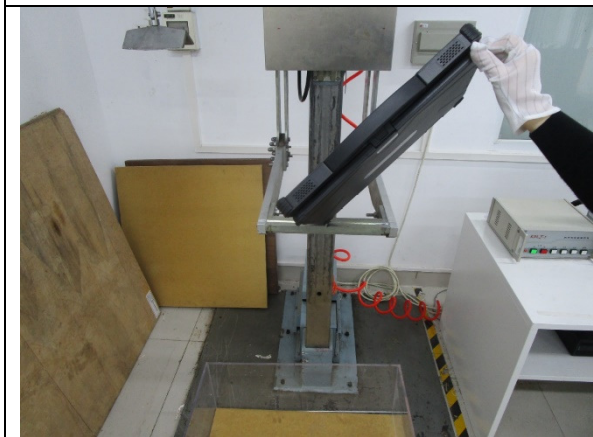
During test-Drop 18



During test-Drop 19



During test-Drop 20



During test-Drop 21



During test-Drop 22

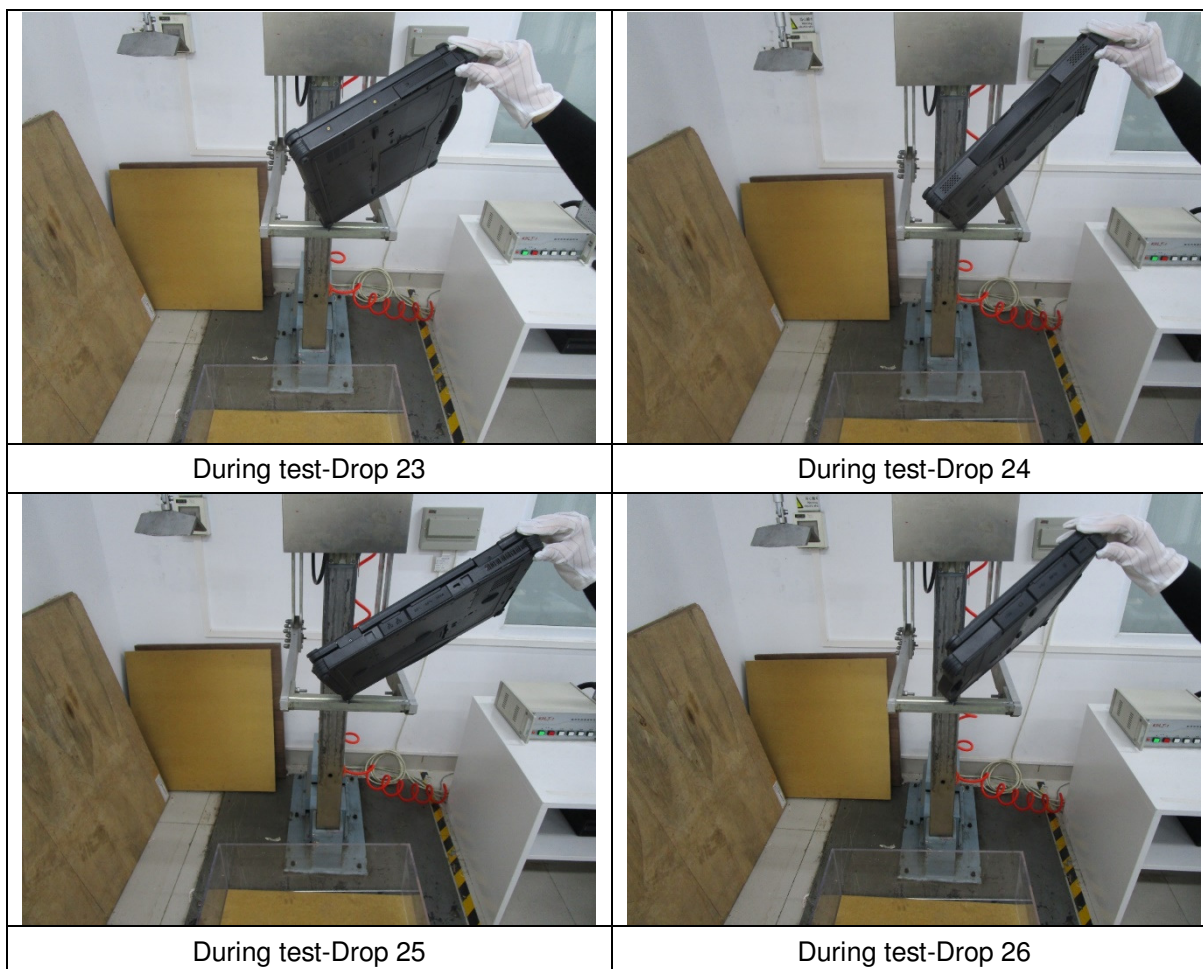


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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Small goods drop tester	GK-SJDL02	GZMR-RL-E126	2019-01-09	2020-01-08

Remark: 1) The test item 1 to item 5 were subcontracted to SGS other qualified subcontractor.

2) This is a combined report of report number GZIN1909051545MR, GZIN1909051549MR, GZIN1909051550MR and GZIN1909051552MR where the samples tested are claimed relevant.

In the territory of the People's Republic of China, the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc... and just for client internal reference.

*****End of Report*****



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