

VIBRATION SOURCE TECHNOLOGY CO., LTD.

Vibration Testing Laboratory

**Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864,
Taiwan (R.O.C.)**

Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1140418-08

Test Report

Date of Issue: 2025 / 04 / 18

Applicant Name	SINTRONES Technology Corp.
Applicant Address	8F., No. 95, Zhongyuan St., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)

The result of this test report performed by

VIBRATION SOURCE TECHNOLOGY CO., LTD. is specified in this report.

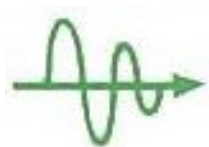
When the cover and the following 17 pages are separated, the validity of this report no longer exists.

Without the consent of the laboratory, this test report shall not be copied excerpts, but except for full-text copy.

Signature



Wen Shuen Wang



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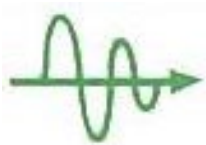
Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1140418-08

I 、 Test Information

Test Report NO.	VS-TV-1140418-08
Applicant Name	SINTRONES Technology Corp.
Applicant Address	8F., No. 95, Zhongyuan St., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
Manufacturer Name	SINTRONES Technology Corp.
Manufacturer Address	8F., No. 95, Zhongyuan St., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
Product Name	Computer
Model Numer	IBOX-650P-IP66
Series model	IBOX-65????-????? (? = 0-9, A-Z, blank or dash for marketing purpose and has no impact to safety related critical components and constructions)
Brand (Trade) Name	SINTRONES
Product Name	Computer
Product Model	IBOX-650P-IP66
Voltage	DC 24V
Quantity	1 PCS
Date of Test	Apr 17, 2025



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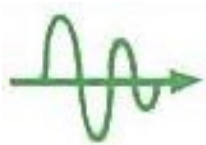
Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864,
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Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

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Report No.: VS-TV-1140418-08

Test Item	Test 1: Random Vibration Test																																																														
Test Standard	Vibration : MIL-STD-810H, Method 514.8, Category 4																																																														
Sample Condition	Unit is Operating																																																														
Test Condition	Waveform: Random Wave Frequency Range: (5 ~ 500) Hz Acceleration & PSD: <table border="1"> <thead> <tr> <th colspan="2">Vertical (Z axis)</th><th colspan="2">Tranverse (Y axis)</th><th colspan="2">Longitudinal (X axis)</th></tr> <tr> <th>Frequency (Hz)</th><th>PSD level (g²/Hz)</th><th>Frequency (Hz)</th><th>PSD level (g²/Hz)</th><th>Frequency (Hz)</th><th>PSD level (g²/Hz)</th></tr> </thead> <tbody> <tr> <td>5</td><td>0.08619</td><td>5</td><td>0.00013</td><td>5</td><td>0.0065</td></tr> <tr> <td>40</td><td>0.08619</td><td>10</td><td>0.00013</td><td>20</td><td>0.0065</td></tr> <tr> <td>500</td><td>0.00086</td><td>20</td><td>0.00065</td><td>120</td><td>0.0002</td></tr> <tr> <td colspan="2" rowspan="5">2.5 grms</td><td>30</td><td>0.00065</td><td>121</td><td>0.003</td></tr> <tr> <td>78</td><td>0.00002</td><td>200</td><td>0.003</td></tr> <tr> <td>79</td><td>0.00019</td><td>240</td><td>0.0015</td></tr> <tr> <td>120</td><td>0.00019</td><td>340</td><td>0.00003</td></tr> <tr> <td>500</td><td>0.00001</td><td>500</td><td>0.00015</td></tr> <tr> <td colspan="2"></td><td colspan="2">0.21 grms</td><td colspan="2">0.76 grms</td></tr> </tbody> </table> Vibration Axial: X, Y, Z Axis Single Axis Time: 1 hour Total Time: 3 hours FIG 1.1 ~ 1.2: X axis direction mounted FIG 2: X axis test screen FIG 3.1 ~ 3.2: Y axis direction mounted FIG 4: Y axis test screen FIG 5.1 ~ 5.2: Z axis direction mounted FIG 6: Z axis test screen Posterior check photos.					Vertical (Z axis)		Tranverse (Y axis)		Longitudinal (X axis)		Frequency (Hz)	PSD level (g ² /Hz)	Frequency (Hz)	PSD level (g ² /Hz)	Frequency (Hz)	PSD level (g ² /Hz)	5	0.08619	5	0.00013	5	0.0065	40	0.08619	10	0.00013	20	0.0065	500	0.00086	20	0.00065	120	0.0002	2.5 grms		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			0.21 grms		0.76 grms	
Vertical (Z axis)		Tranverse (Y axis)		Longitudinal (X axis)																																																											
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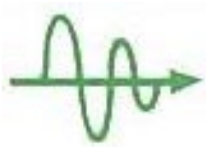
Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864,
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Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1140418-08

Test Item	Test 2 : Shock Test	
Test Standard	MIL-STD-810H Method 516.8	
Sample Condition	Operating	
Test Condition	Waveform: Final Peak Sawtooth Wave Shock Peak Acceleration: 20 G Duration Time: 11 ms Shock Axial: +X 、 -X 、 +Y 、 -Y 、 +Z 、 -Z Shock Time: 3 times Total Time: 18 times FIG 7.1 ~ 7.2: +X axis direction mounted FIG 8.: +X axis test screen FIG 9.1 ~ 9.2: -X axis direction mounted FIG 10.: -X axis test screen FIG 11.1 ~ 11.2: +Y axis direction mounted FIG 12.: +Y axis test screen FIG 13.1 ~ 13.2: -Y axis direction mounted FIG 14.: -Y axis test screen FIG 15.1 ~ 15.2: +Z axis direction mounted FIG 16.: +Z axis test screen FIG 17.1 ~ 17.2: -Z axis direction mounted FIG 18.: -Z axis test screen Posterior check photos.	

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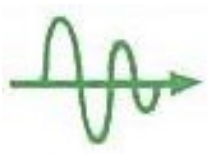
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Report No.: VS-TV-1140418-08

Test Result	Appearance:	No external physical damage.
	Function:	Upon Applicant's comment.
Test Conducted By		Report Prepared By
Alex Chan		Jane
		



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Test 1: Random Vibration Test

(MIL-STD-810H, Method 514.8, Procedure I, Category 4)

FIG 1.1: X axis direction mounted

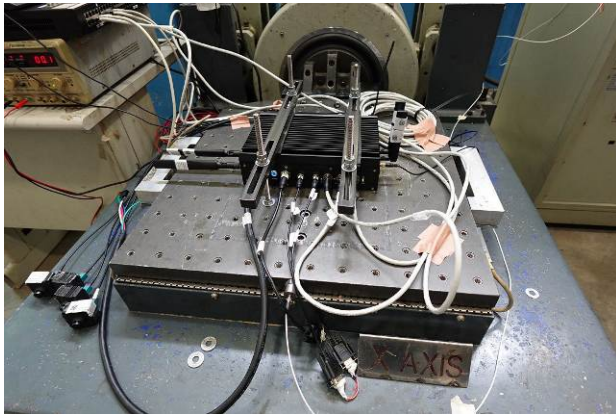
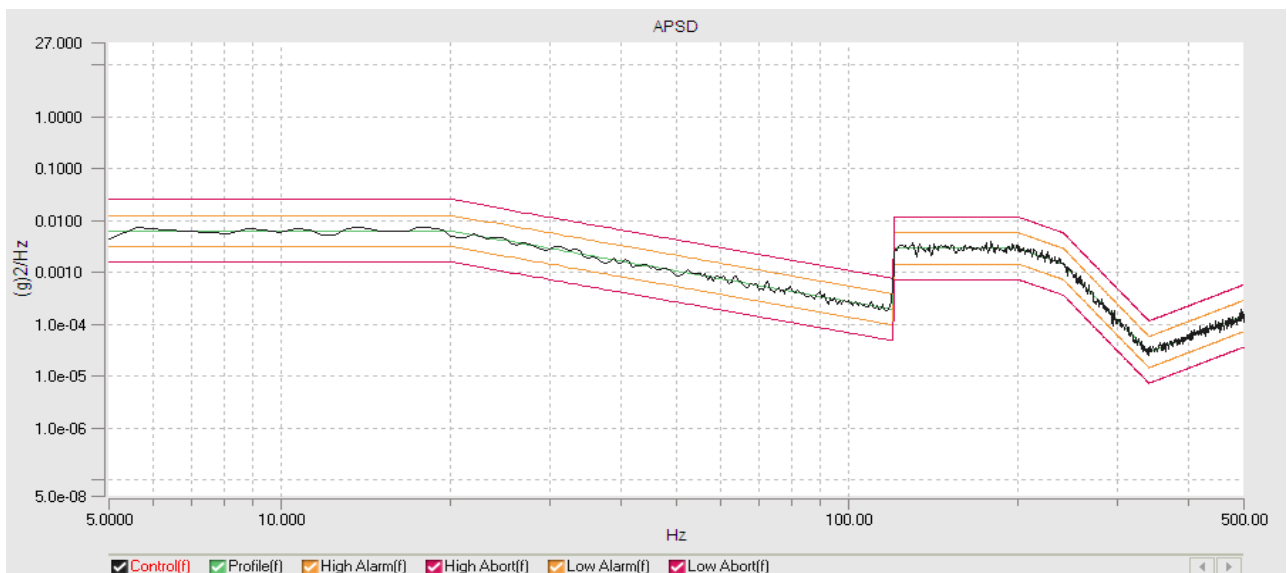


FIG 1.2: X axis direction mounted



FIG 2: X axis test screen



Current Level: 100.00 %

Demand RMS: 0.762 g

Control RMS: 0.764 g

Frame Time: 1.6000 (s)

Lines: 800

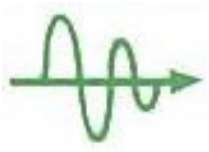
dF: 0.6 Hz

DOF: 120

Current Level Time: 01:00:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2025-4-17 PM 02:09:56



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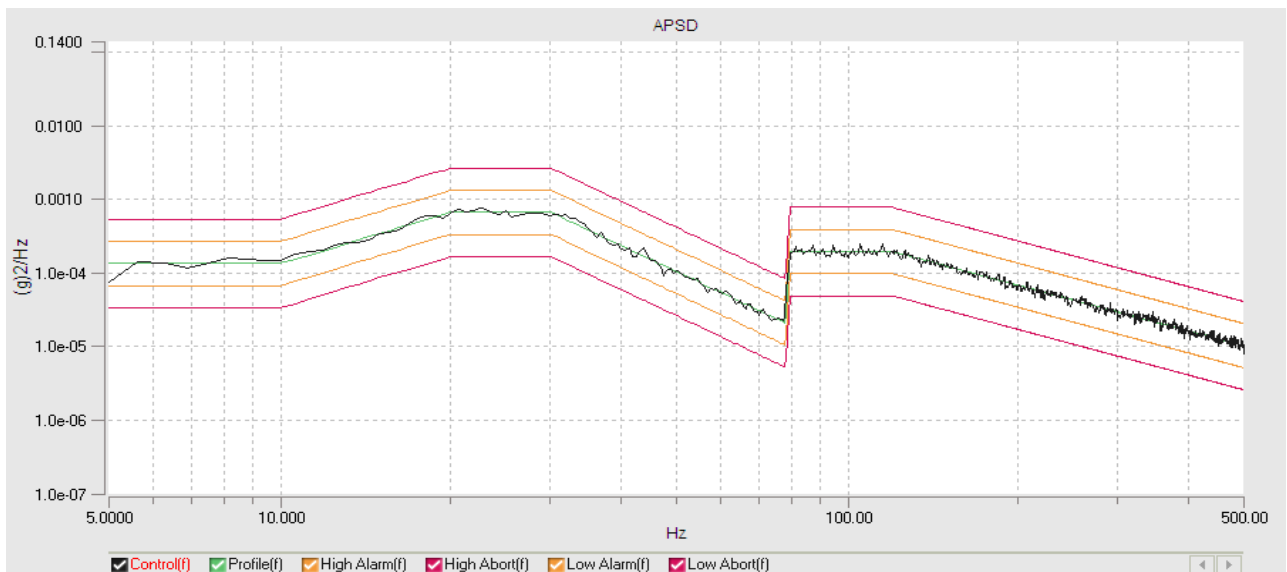
FIG 3.1: Y axis direction mounted



FIG 3.2: Y axis direction mounted



FIG 4: Y axis test screen



Current Level: 100.00 %

Demand RMS: 0.210 g

Control RMS: 0.210 g

Frame Time: 1.6000 (s)

Lines: 800

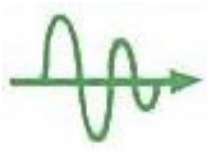
dF: 0.6 Hz

DOF: 200

Current Level Time: 01:00:00

Remaining Time: 00:00:00

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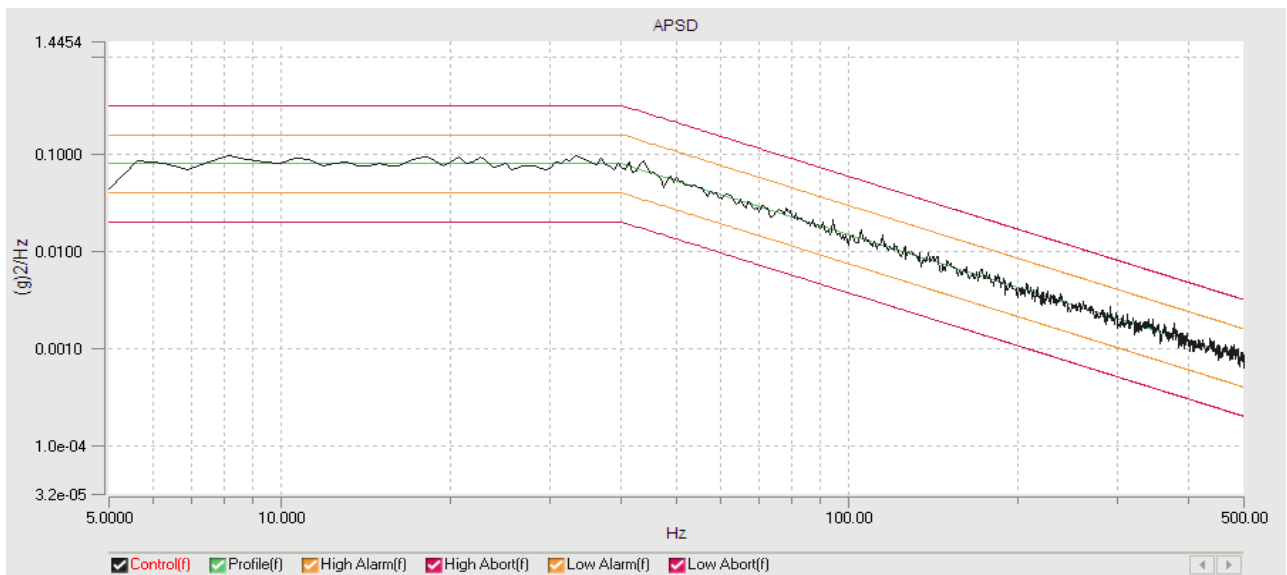
FIG 5.1: Z axis direction mounted



FIG 5.2: Z axis direction mounted



IG 6: Z axis test screen



Current Level: 100.00 %

Demand RMS: 2.500 g

Control RMS: 2.503 g

Frame Time: 1.6000 (s)

Lines: 800

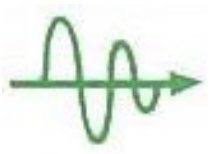
dF: 0.6 Hz

DOF: 200

Current Level Time: 01:00:00

Remaining Time: 00:00:00

Data was saved as a file at time: 2025-4-17 PM 06:56:45



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Report No.: VS-TV-1140418-08

Vibration Test: Posterior check photos.

X axis

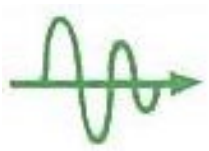


Y axis



Z axis





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Test 2 : Shock Test (20G 、11ms, Final Peak Sawtooth Wave)

FIG 7.1: +X axis direction mounted

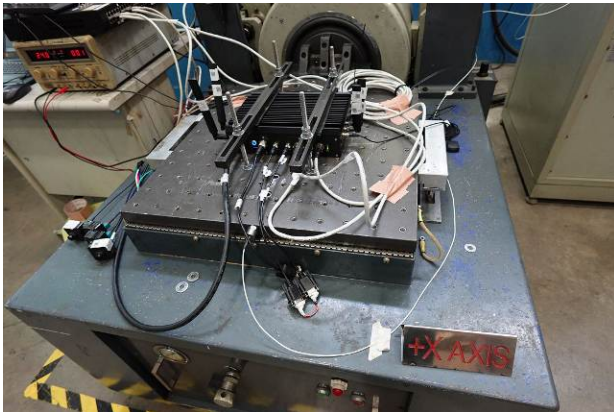


FIG 7.2: +X axis direction mounted



FIG 8: +X axis test screen



Shock Type:Final Peak Saw Tooth

Mag:20.00 g

Pulse Duration:11 ms

Current level:100 %

Demand peak: 20.000 g

Control peak:19.812 g

Block Size:4096

Frame Time:0.6827 s

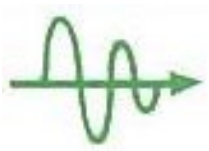
dT:0.000166667 s

Current Pulses: 3

Output pulses: 13

Remain pulses: 0

ata was saved as a file at time:2025-4-17 PM 12:54:34



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FIG 9.1: -X axis direction mounted

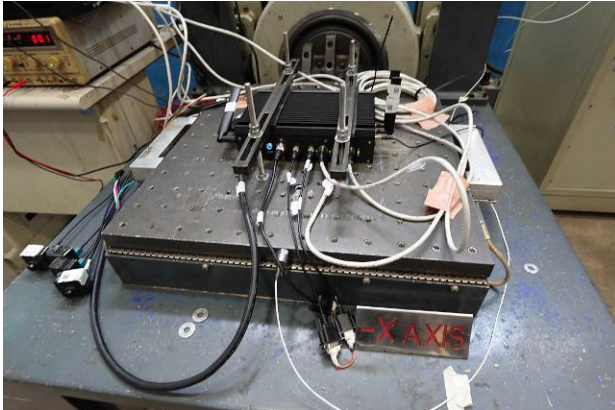
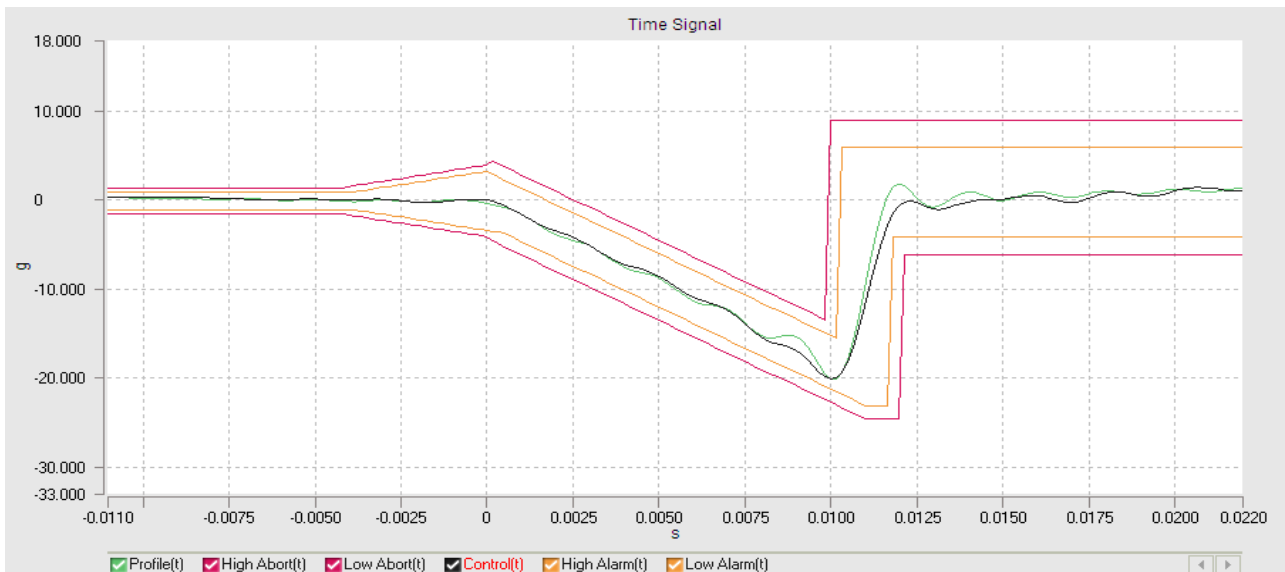


FIG 9.2: -X axis direction mounted



FIG 10: -X axis test screen



Shock Type:Final Peak Saw Tooth

Mag:20.00 g

Pulse Duration:11 ms

Current level:100 %

Demand peak: 20.000 g

Control peak:20.064g

Block Size:4096

Frame Time:0.6827 s

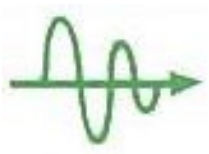
dT:0.000166667 s

Current Pulses: 3

Output pulses: 13

Remain pulses: 0

Data was saved as a file at time:2025-4-17 PM 12:56:51



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FIG 11.1: +Y axis direction mounted



FIG 11.2: +Y axis direction mounted



FIG 12: +Y axis test screen



Shock Type:Final Peak Saw Tooth

Mag:20.00 g

Pulse Duration:11 ms

Current level:100 %

Demand peak: 20.000 g

Control peak:19.871 g

Block Size:4096

Frame Time:0.6827 s

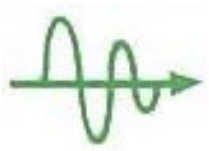
dT:0.000166667 s

Current Pulses: 3

Output pulses: 13

Remain pulses: 0

Data was saved as a file at time:2025-4-17 PM 12:33:24



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FIG 13.1: -Y axis direction mounted

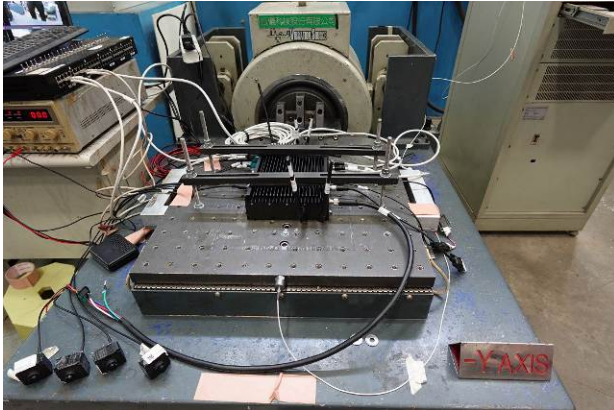


FIG 13.2: -Y axis direction mounted

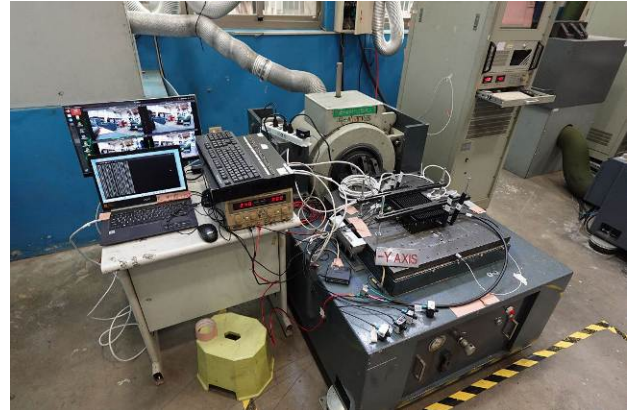
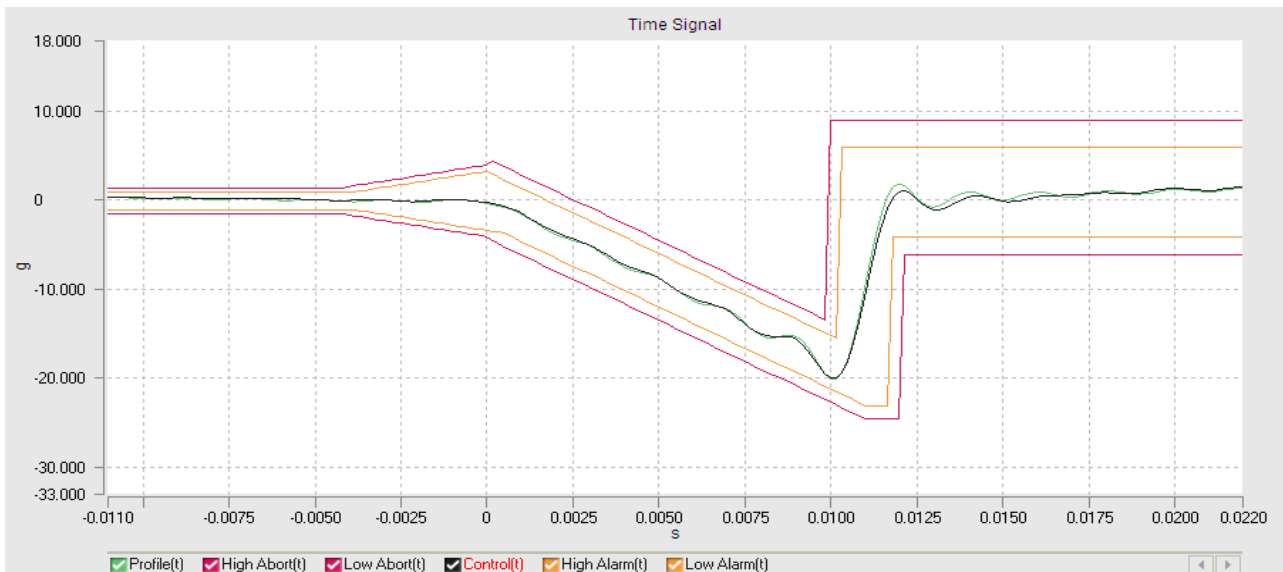


FIG 14: -Y axis test screen



Shock Type:Final Peak Saw Tooth

Mag:20.00 g

Pulse Duration:11 ms

Current level:100 %

Demand peak: 20.000 g

Control peak:19.930 g

Block Size:4096

Frame Time:0.6827 s

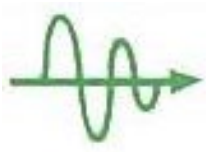
dT:0.000166667 s

Current Pulses: 3

Output pulses: 13

Remain pulses: 0

Data was saved as a file at time:2025-4-17 PM 12:35:29



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Report No.: VS-TV-1140418-08

FIG 15.1: +Z axis direction mounted



FIG 15.2: +Z axis direction mounted



FIG 16: +Z axis test screen



Shock Type:Final Peak Saw Tooth

Mag:20.00 g

Pulse Duration:11 ms

Current level:100 %

Demand peak: 20.000 g

Control peak:20.054 g

Block Size:4096

Frame Time:0.6827 s

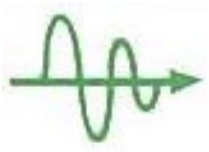
dT:0.000166667 s

Current Pulses: 3

Output pulses: 13

Remain pulses: 0

Data was saved as a file at time:2025-4-17 PM 05:48:54



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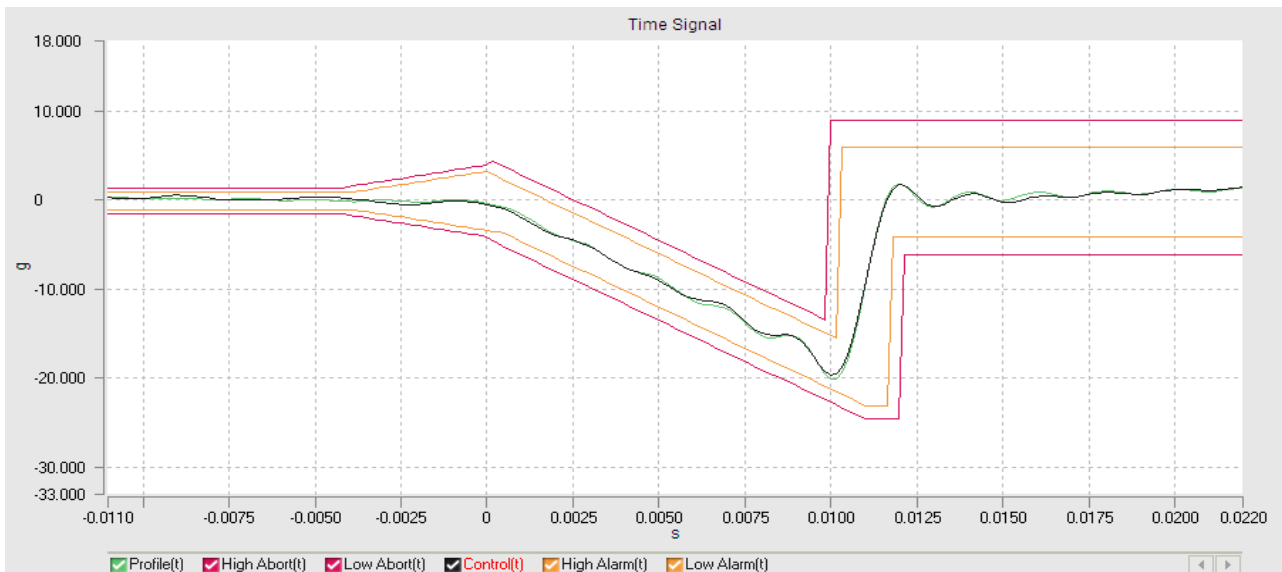
FIG 17.1: -Z axis direction mounted



FIG 17.2: -Z axis direction mounted



FIG 18: -Z axis test screen



Shock Type:Final Peak Saw Tooth

Current level:100 %

Block Size:4096

Current Pulses: 3

Data was saved as a file at time:2025-4-17 PM 05:51:03

Mag:20.00 g

Demand peak: 20.000 g

Frame Time:0.6827 s

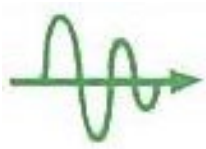
Output pulses: 13

Pulse Duration:11 ms

Control peak:19.614 g

dT:0.000166667 s

Remain pulses: 0



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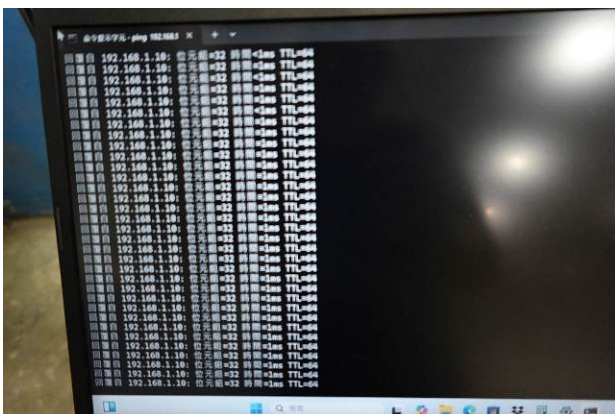
Add: No.29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864, Taiwan (R.O.C.)

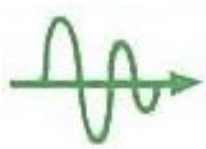
Tel: 886-2-2688-0999 Fax: 886-2-2688-0977

E-mail: info@vibsource.com

Report No.: VS-TV-1140418-08

Shock test: Posterior check photos.





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Report No.: VS-TV-1140418-08

II 、 Test Description

1. Date of Test

This test was performed on Apr 17, 2025

2. Test Location

This test was performed on NO. 29, Lane 65, Sanjun St., Shulin Dist., New Taipei City 23864 Taiwan (R.O.C.)

3. Test Methods

This test was carried out according to the following documents: (VS-LP-TV-01)V3.2.

4. Test standard instruments

Test standard instruments and matching accelerometer, as below:

Specimen	Manufacturer	Model	Serial NO.	Calibration Date	Validity Date
Electrodynamics Type Vibration Tester	Vibration Source Technology CO., LTD	VS-1000VH-51	1099	2025/01/14	2026/01/13
Accelerometer	PCB	J352C34	146403		

Calibration and Traceability to Vibration Source Technology CO., TD.
Vibration Calibration Laboratory (TAF 2465)
(Calibration Report No.: VS-CV-1140114-02)

III 、 Reference

- Vibration testing procedures (VS-LP-TV-01) V3.2.
VIBRATION SOURCE TECHNOLOGY CO., LTD.

The End.