



储威能检测

Test Report

Report No.: 202408021

Sample Name: Rechargeable Li-ion Battery

Specification: 51.2Vd.c./100Ah

Applicant: Shanghai PYTES Energy Co., Ltd.

Type of test: Commissioned Test

Chuweineng Testing Technology (Shanghai) Co.Ltd

Statement

1. The test report is invalid without the official or testing stamp of ChuweiNeng Testing Technology (Shanghai) Co., Ltd.
2. The test report is invalid without the signatures of Approver, Checker and Appraiser.
3. The test report is invalid if altered. Nobody is allowed to photocopy or partly photocopy this report without written permission of ChuweiNeng Testing Technology (Shanghai) Co., Ltd.
4. We are not responsible for confirming the authenticity of the information related to the samples provided by the client.
5. The test report is valid for the tested samples only.
6. Objection to the test report must be submitted to ChuweiNeng Testing Technology (Shanghai) Co., Ltd. within 15 days

ChuweiNeng Testing Technology (Shanghai) Co.Ltd

Address: Building 3, No.1065 Beihe Road, Jiading District, Shanghai Postcode: 201815

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<http://www.esstesting.com/>

Chuweineng Testing Technology (Shanghai) Co.Ltd
Test Report

NO:202408021

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Sample name	Rechargeable Li-ion Battery	Model	V5° α Plus		
Applicant	Shanghai PYTES Energy Co., Ltd.				
Applicant address	No. 3492, Jinqian Road, Fengxian District, Shanghai				
Manufacturer	Shanghai PYTES Energy Co., Ltd.				
Manufacture address	No. 3492, Jinqian Road, Fengxian District, Shanghai				
Appearance & Odor	Cube	Quantities	1	Sample No.	202408021
Test items	Vibration test				
Test methods and criterion	SAE J2380 Vibration test for electric vehicle batteries With reference to the standard vibration test requirements, it is agreed that only the vibration test in the standard shall be carried out. Criterion: After the module undergoes the vibration in the standard, it turns on normally and the voltage is normal.				
Accepted date	2024.08.12	Testing duration	2024.08.12-2024.08.16		
Conclusion	Referring to the vibration test of SAE J2380 electric vehicle battery for commissioned inspection, the sample experienced normal basic function and normal voltage after the test.				
Remark	/				



Approver:

Checker:

Appraiser:

Chuweineng Testing Technology (Shanghai) Co.Ltd

Test Report

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Test items and results description

No.	Test item name	Standard clause	Test result	Judgment	Remark
1	Vibration test	SAE J2380 4.4	See table 1	P	/
Possible test case determination:					
— The requirement does not apply to the product or the test is not performed.				N/A	
— Test results meet requirements				P	
— Test results do not meet the requirements				F	
— No judgment on test cases				—	
—☑Indicates the presence of this phenomenon					
—☒Indicates no such phenomenon					

Table 1	Test item name	Vibration test	Test result	P																																																																																																																																																																
Test procedure:	1、Vibration sequences, test time, and accel was installed according to Table 3 of clause 4.4.3.																																																																																																																																																																			
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	<table><tr><th colspan="3">TEST CONDITIONS</th><th colspan="3">NORMAL TEST</th><th colspan="3">ALTERNATIVE TEST</th></tr><tr><th>VIBRATION SPECTRUM</th><th>DOD (%)</th><th>Accel (g rms)</th><th>Time (h)</th><th>Cumul Time (h)</th><th>Accel (g rms)</th><th>Time (h)</th><th>Cumul Time (h)</th></tr><tr><td colspan="9">Vertical Axis Vibration:</td></tr><tr><td>Vertical 1 spectrum</td><td>0</td><td>1.9</td><td>0.15</td><td>0.15</td><td>1.9</td><td>0.15</td><td>0.15</td></tr><tr><td>Vertical 1 spectrum</td><td>0</td><td>0.75</td><td>5.25</td><td>5.4</td><td>0.95</td><td>3.5</td><td>3.65</td></tr><tr><td>Vertical 2 spectrum</td><td>0</td><td>1.9</td><td>0.15</td><td>5.55</td><td>1.9</td><td>0.15</td><td>3.8</td></tr><tr><td>Vertical 2 spectrum</td><td>0</td><td>0.75</td><td>5.25</td><td>10.8</td><td>0.95</td><td>3.5</td><td>7.3</td></tr><tr><td>Vertical 3 spectrum</td><td>80</td><td>1.9</td><td>0.15</td><td>10.95</td><td>1.9</td><td>0.15</td><td>7.45</td></tr><tr><td>Vertical 3 spectrum</td><td>80</td><td>0.75</td><td>5.25</td><td>16.2</td><td>0.95</td><td>3.5</td><td>10.95</td></tr><tr><td colspan="9">Longitudinal Axis Vibration:</td></tr><tr><td>Longitudinal spectrum</td><td>40</td><td>1.5</td><td>0.09</td><td>16.29</td><td>1.5</td><td>0.09</td><td>11.04</td></tr><tr><td>Longitudinal spectrum</td><td>40</td><td>0.4</td><td>19</td><td>35.29</td><td>0.75</td><td>6.7</td><td>17.74</td></tr><tr><td>Longitudinal spectrum</td><td>40</td><td>1.5</td><td>0.09</td><td>35.38</td><td>1.5</td><td>0.09</td><td>17.83</td></tr><tr><td>Longitudinal spectrum</td><td>40</td><td>0.4</td><td>19</td><td>54.38</td><td>0.75</td><td>6.7</td><td>24.53</td></tr><tr><td colspan="9">Lateral Axis Vibration:</td></tr><tr><td>Lateral spectrum</td><td>40</td><td>1.5</td><td>0.09</td><td>54.47</td><td>1.5</td><td>0.09</td><td>24.621</td></tr><tr><td>Lateral spectrum</td><td>40</td><td>0.4</td><td>19</td><td>73.47</td><td>0.75</td><td>6.7</td><td>31.321</td></tr><tr><td>Lateral spectrum</td><td>40</td><td>1.5</td><td>0.09</td><td>73.56</td><td>1.5</td><td>0.09</td><td>31.411</td></tr><tr><td>Lateral spectrum</td><td>40</td><td>0.4</td><td>19</td><td>92.56</td><td>0.75</td><td>6.7</td><td>38.111</td></tr></table>								TEST CONDITIONS			NORMAL TEST			ALTERNATIVE TEST			VIBRATION SPECTRUM	DOD (%)	Accel (g rms)	Time (h)	Cumul Time (h)	Accel (g rms)	Time (h)	Cumul Time (h)	Vertical Axis Vibration:									Vertical 1 spectrum	0	1.9	0.15	0.15	1.9	0.15	0.15	Vertical 1 spectrum	0	0.75	5.25	5.4	0.95	3.5	3.65	Vertical 2 spectrum	0	1.9	0.15	5.55	1.9	0.15	3.8	Vertical 2 spectrum	0	0.75	5.25	10.8	0.95	3.5	7.3	Vertical 3 spectrum	80	1.9	0.15	10.95	1.9	0.15	7.45	Vertical 3 spectrum	80	0.75	5.25	16.2	0.95	3.5	10.95	Longitudinal Axis Vibration:									Longitudinal spectrum	40	1.5	0.09	16.29	1.5	0.09	11.04	Longitudinal spectrum	40	0.4	19	35.29	0.75	6.7	17.74	Longitudinal spectrum	40	1.5	0.09	35.38	1.5	0.09	17.83	Longitudinal spectrum	40	0.4	19	54.38	0.75	6.7	24.53	Lateral Axis Vibration:									Lateral spectrum	40	1.5	0.09	54.47	1.5	0.09	24.621	Lateral spectrum	40	0.4	19	73.47	0.75	6.7	31.321	Lateral spectrum	40	1.5	0.09	73.56	1.5	0.09	31.411	Lateral spectrum	40	0.4	19	92.56	0.75	6.7	38.111
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3、Testing was performed using a single-axis platform, starting with two-thirds of vertical																																																																																																																																																																				

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Test results

Normal power on, normal voltage, no abnormal phenomenon.

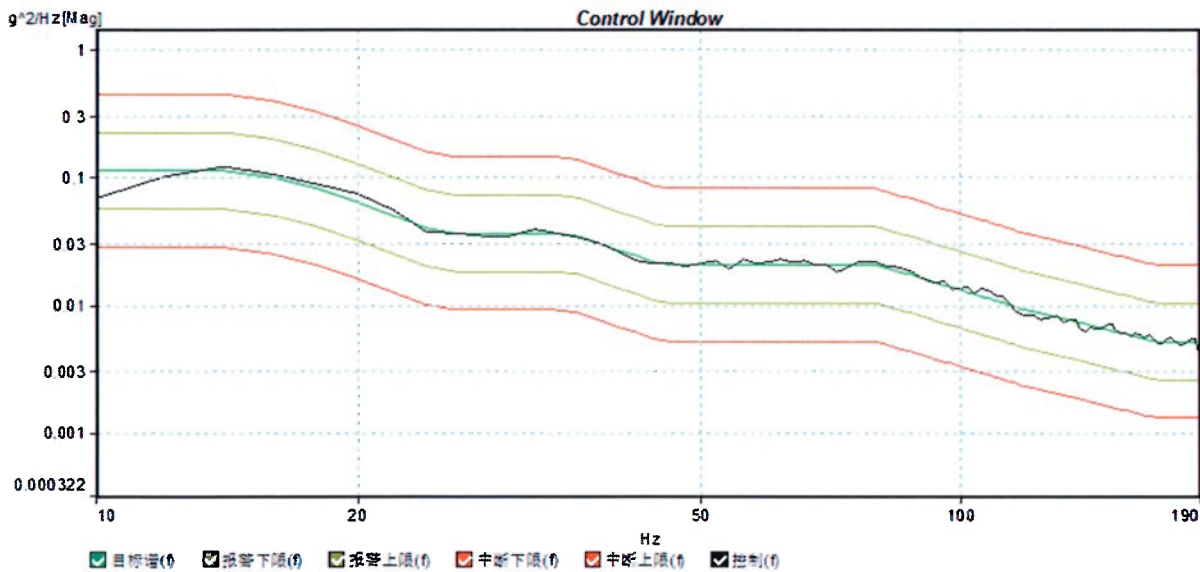
DrivePeak:0.358816 V

Vertical axis vibration 1 0.95G 3.5h

Chuweineng Testing Technology (Shanghai) Co.Ltd
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ProfileRMS:1.93707 g

ControlRMS:1.94357 g

Level:100 %

DrivePeak:0.747904 V

Sampling:512

FrameSize:256

FreeDegrees:154

Elapsed Time: 00:09:52

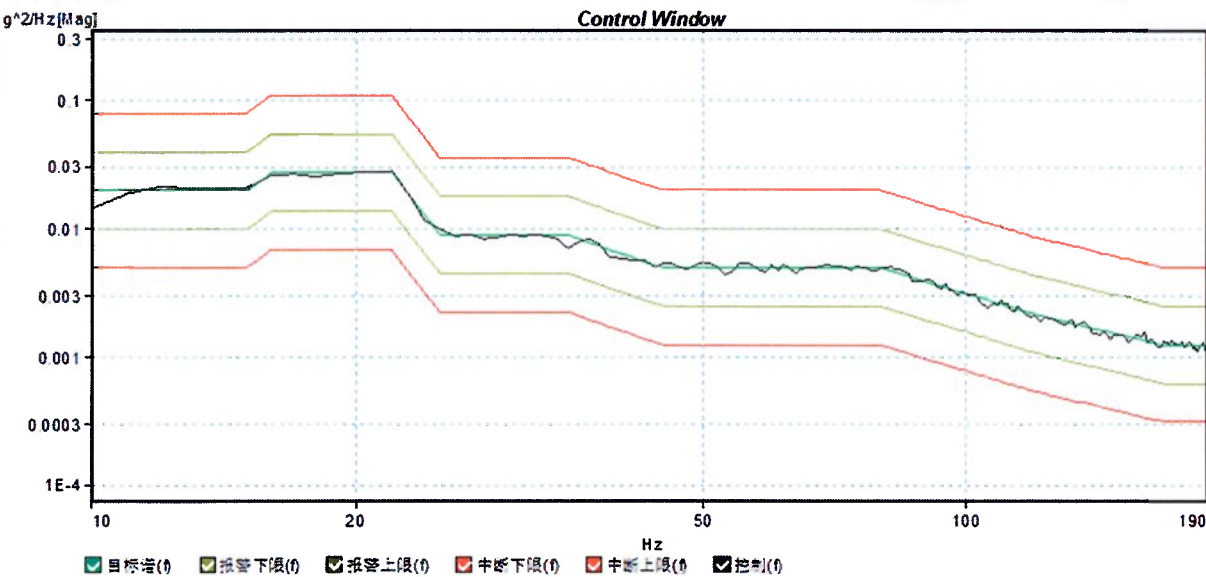
Remain Time: 00:00:00

Full Level Time: 00:09:00

Test Start Time:2024-08-13 14:52:38

ReportTime:2024-08-23 13:46:16

Vertical axis vibration 1 1.9G 0.15h



ProfileRMS:0.957167 g

ControlRMS:0.955009 g

Level:100 %

DrivePeak:0.54103 V

Sampling:512

FrameSize:512

FreeDegrees:154

Elapsed Time: 03:31:11

Remain Time: 00:00:00

Full Level Time: 03:30:00

Test Start Time:2024-08-14 09:34:28

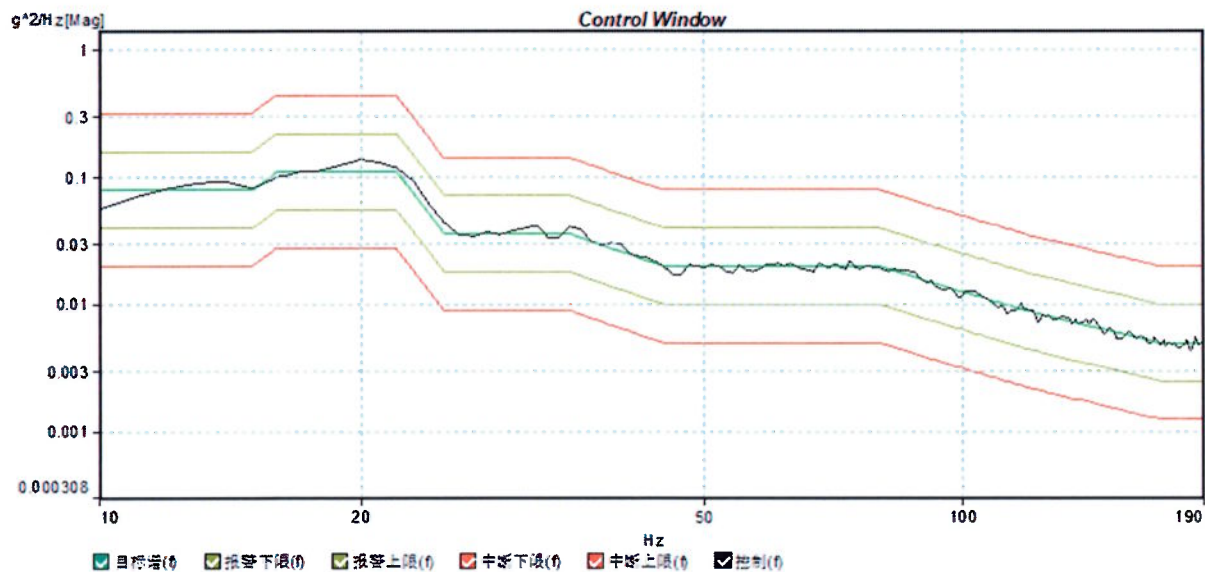
ReportTime:2024-08-23 14:03:46

Vertical axis vibration 2 0.95G 3.5h

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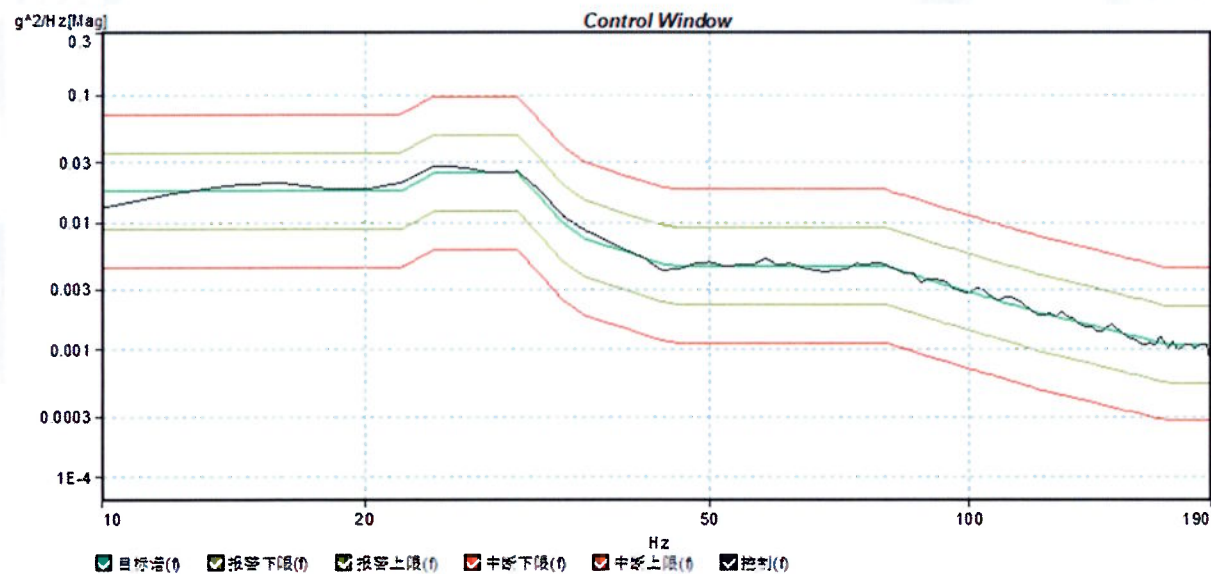
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ProfileRMS:1.92017 g	ControlRMS:1.95471 g	Level:100 %	DrivePeak:0.743852 V
Sampling:512	FrameSize:512	FreeDegrees:154	
Elapsed Time: 00:10:14	Remain Time: 00:00:00	Full Level Time: 00:09:00	
Test Start Time:2024-08-14 09:07:18	ReportTime:2024-08-23 14:00:09		

Vertical axis vibration 2 1.9G 0.15h



ProfileRMS:0.961652 g	ControlRMS:0.984489 g	Level:100 %	DrivePeak:0.33792 V
Sampling:512	FrameSize:256	FreeDegrees:154	
Elapsed Time: 03:30:49	Remain Time: 00:00:00	Full Level Time: 03:30:00	
Test Start Time:2024-08-16 10:01:22	ReportTime:2024-08-23 14:38:08		

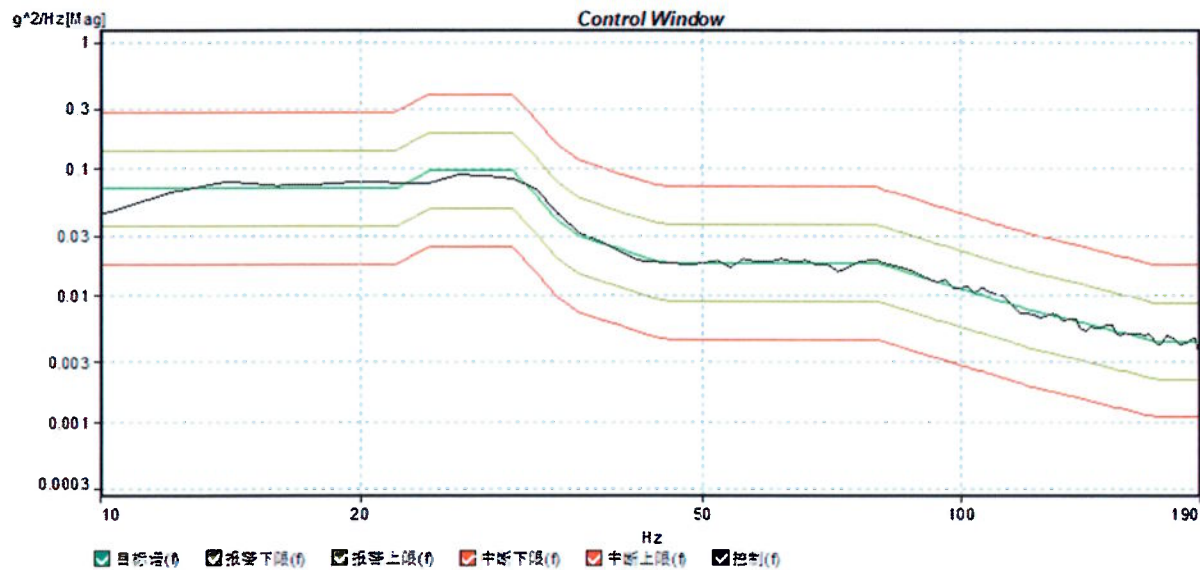
Vertical axis vibration 3 0.95G 3.5h

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ProfileRMS:1.92477 g

Sampling:512

Elapsed Time: 00:09:52

Test Start Time:2024-08-16 09:43:51

ControlRMS:1.92179 g

FrameSize:256

Remain Time: 00:00:00

ReportTime:2024-08-23 14:29:18

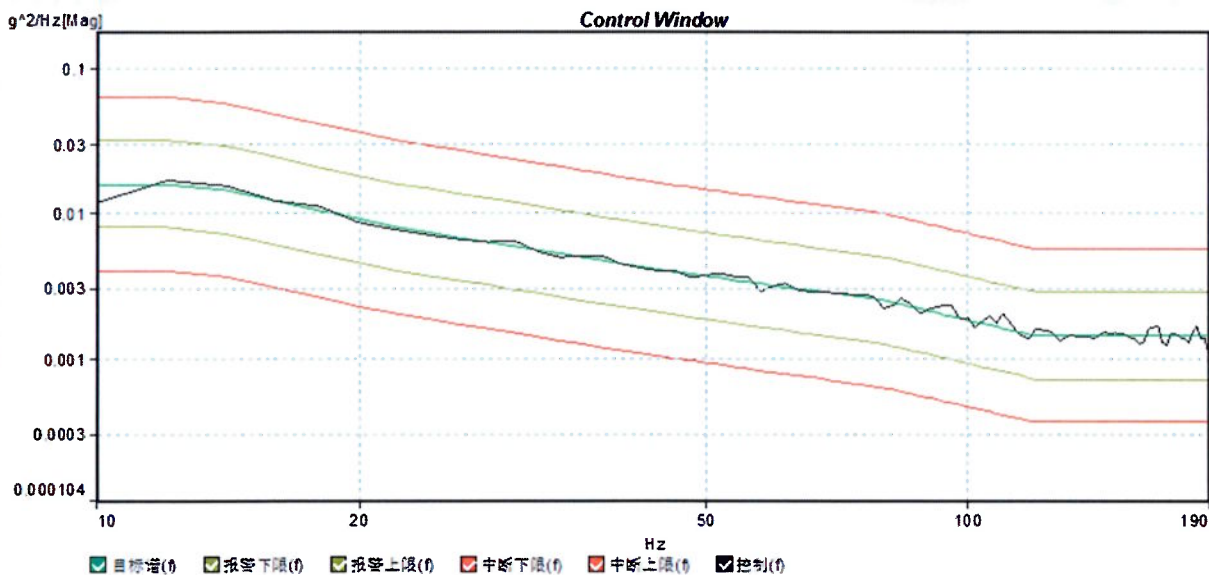
Level:100 %

FreeDegrees:154

Full Level Time: 00:09:00

DrivePeak:0.704848 V

Vertical axis vibration 3 1.9G 0.15h



ProfileRMS:0.762191 g

Sampling:512

Elapsed Time: 06:42:47

Test Start Time:2024-08-14 16:06:30

ControlRMS:0.767178 g

FrameSize:256

Remain Time: 00:00:00

ReportTime:2024-08-23 14:16:44

Level:100 %

FreeDegrees:154

Full Level Time: 06:42:00

DrivePeak:0.214954 V

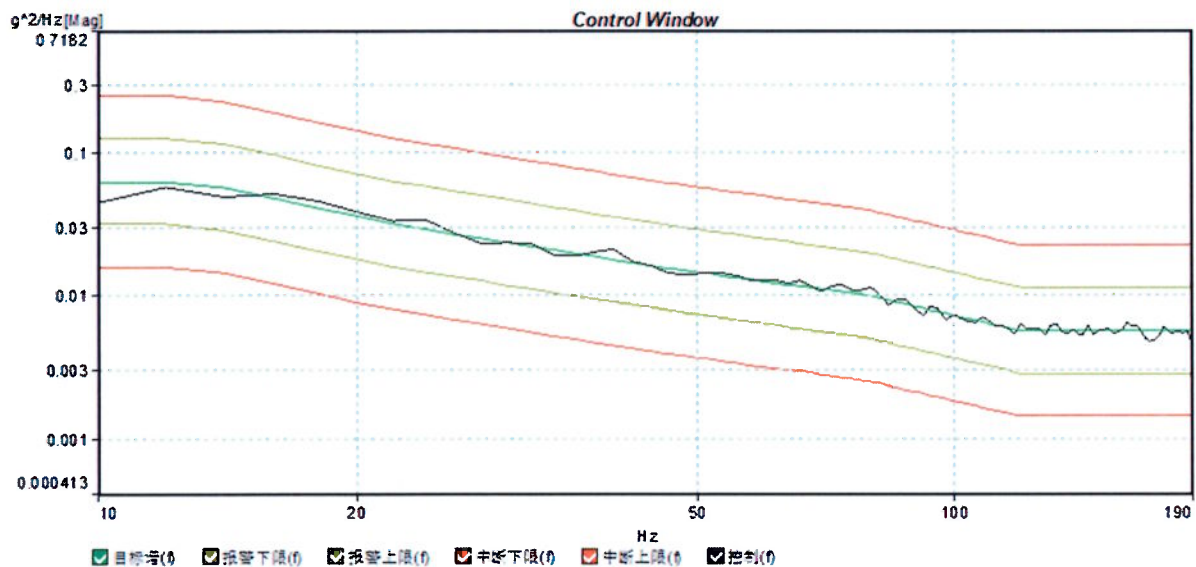
Longitudinal axis vibration 1 0.75 G 6.7h

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ProfileRMS:1.5196 g

ControlRMS:1.52285 g

Level:100 %

DrivePeak:0.51515 V

Sampling:512

FrameSize:256

FreeDegrees:154

Elapsed Time: 00:06:15

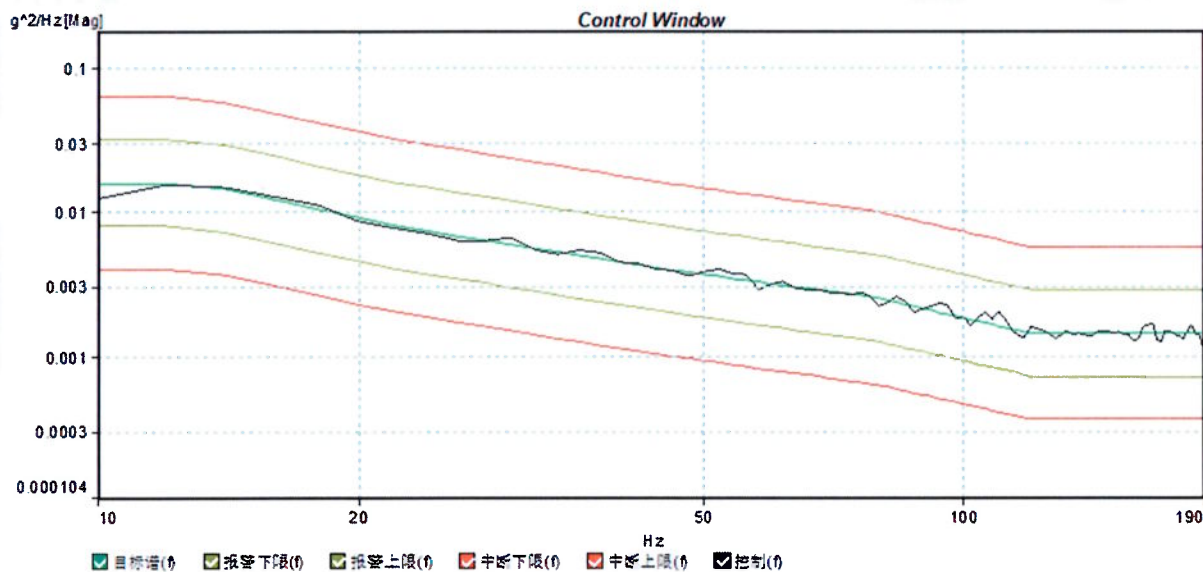
Remain Time: 00:00:00

Full Level Time: 00:05:24

Test Start Time:2024-08-14 15:48:59

ReportTime:2024-08-23 14:13:03

Longitudinal axis vibration 1 1.5 G 0.09h



ProfileRMS:0.762191 g

ControlRMS:0.766985 g

Level:100 %

DrivePeak:0.216195 V

Sampling:512

FrameSize:256

FreeDegrees:154

Elapsed Time: 06:42:47

Remain Time: 00:00:00

Full Level Time: 06:42:00

Test Start Time:2024-08-15 08:53:41

ReportTime:2024-08-23 14:21:49

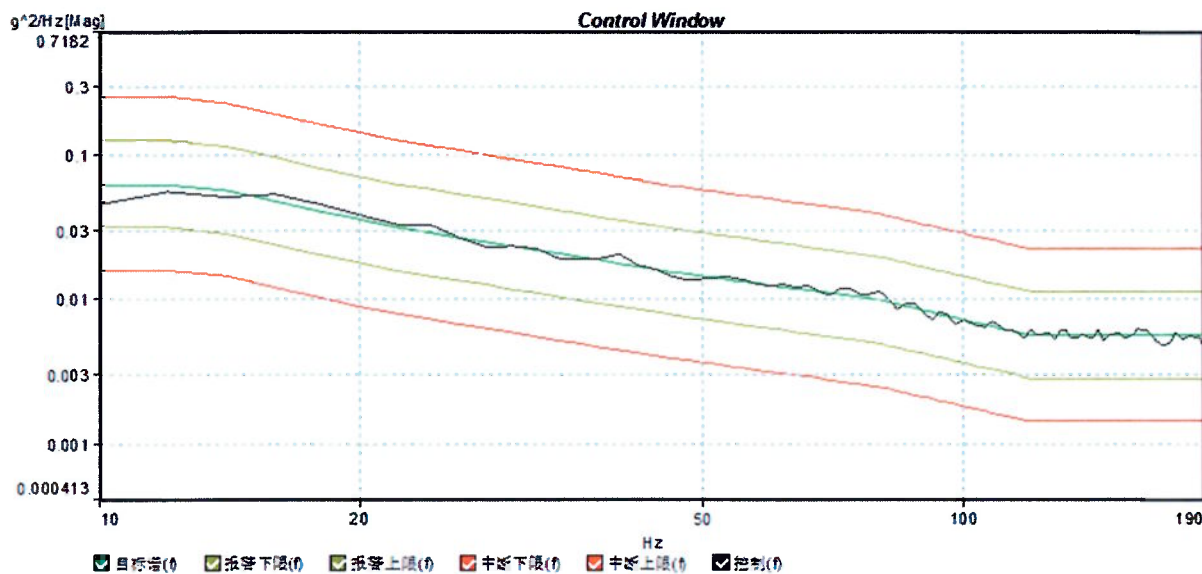
Longitudinal axis vibration 2 0.75 G 6.7h

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ProfileRMS:1.5196 g

ControlRMS:1.52329 g

Level:100 %

DrivePeak:0.520091 V

Sampling:512

FrameSize:256

FreeDegrees:154

Elapsed Time: 00:06:15

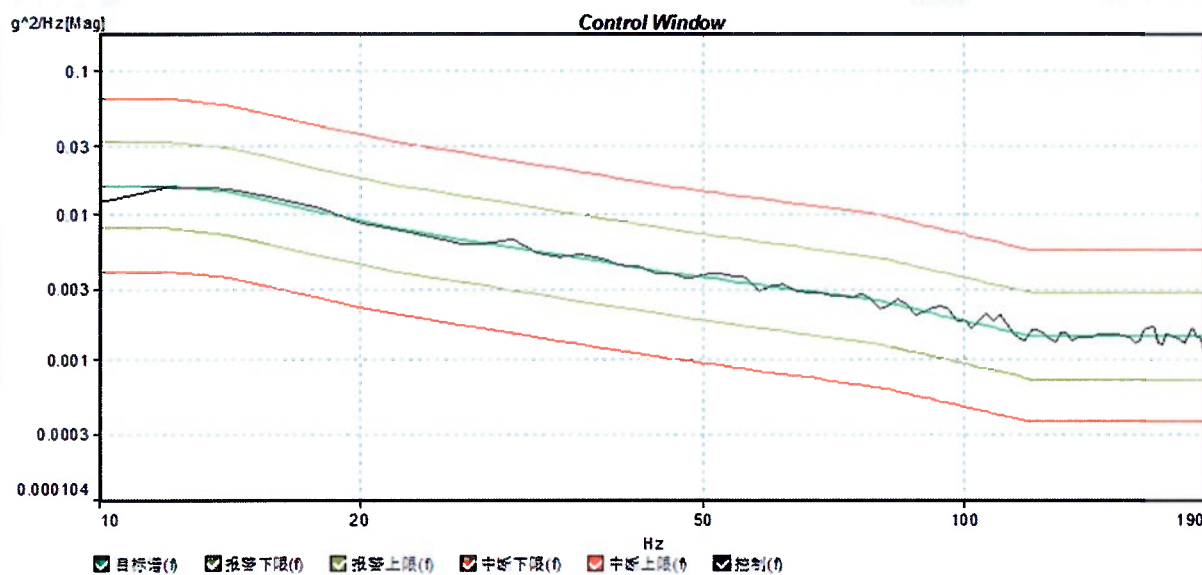
Remain Time: 00:00:00

Full Level Time: 00:05:24

Test Start Time:2024-08-15 08:43:09

ReportTime:2024-08-23 14:19:29

Longitudinal axis vibration 2 1.5 G 0.09h



ProfileRMS:0.762191 g

ControlRMS:0.767086 g

Level:100 %

DrivePeak:0.216769 V

Sampling:512

FrameSize:256

FreeDegrees:154

Elapsed Time: 06:42:47

Remain Time: 00:00:00

Full Level Time: 06:42:00

Test Start Time:2024-08-15 16:15:57

ReportTime:2024-08-23 14:26:40

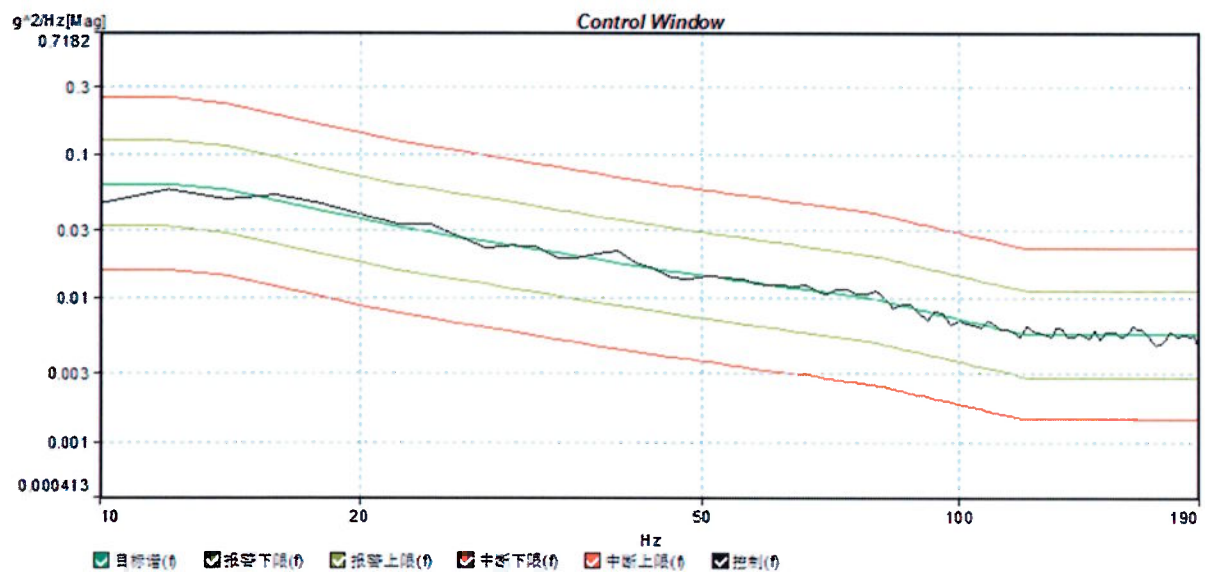
Lateral axis vibration 1 0.75 G 6.7h

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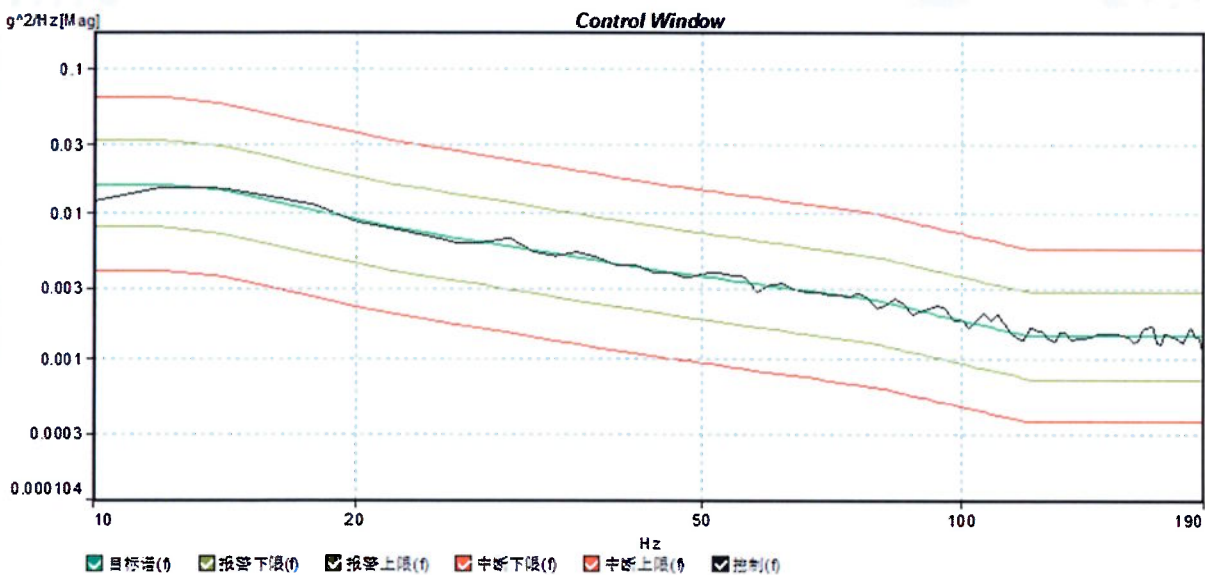
ProfileRMS:1.5196 g ControlRMS:1.52226 g Level:100 % DrivePeak:0.514307 V

Sampling:512 FrameSize:256 FreeDegrees:154

Elapsed Time: 00:06:15 Remain Time: 00:00:00 Full Level Time: 00:05:24

Test Start Time:2024-08-15 16:06:17 ReportTime:2024-08-23 14:24:43

Lateral axis vibration 1 1.5 G 0.09h



ProfileRMS:0.762191 g ControlRMS:0.766571 g Level:100 % DrivePeak:0.218889 V

Sampling:512 FrameSize:256 FreeDegrees:154

Elapsed Time: 06:42:47 Remain Time: 00:00:00 Full Level Time: 06:42:00

Test Start Time:2024-08-15 23:53:28 ReportTime:2024-08-23 14:36:09

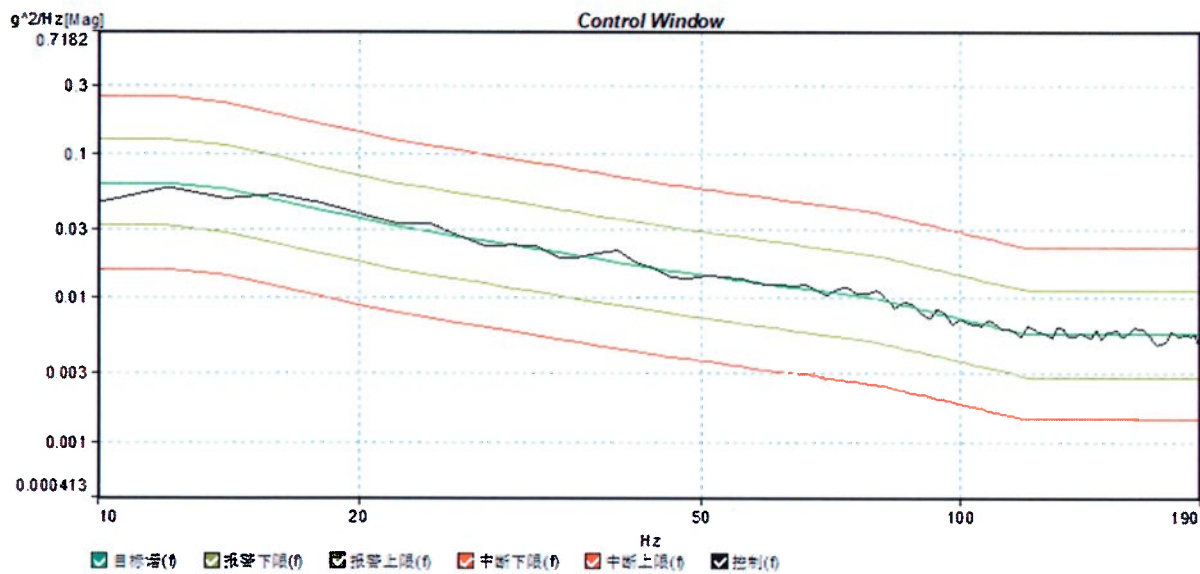
Lateral axis vibration 2 0.75 G 6.7h

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ProfileRMS:1.5196 g

Sampling:512

Elapsed Time: 00:06:15

Test Start Time:2024-08-15 23:44:54

ControlRMS:1.5242 g

FrameSize:256

Remain Time: 00:00:00

ReportTime:2024-08-23 14:34:19

Level:100 %

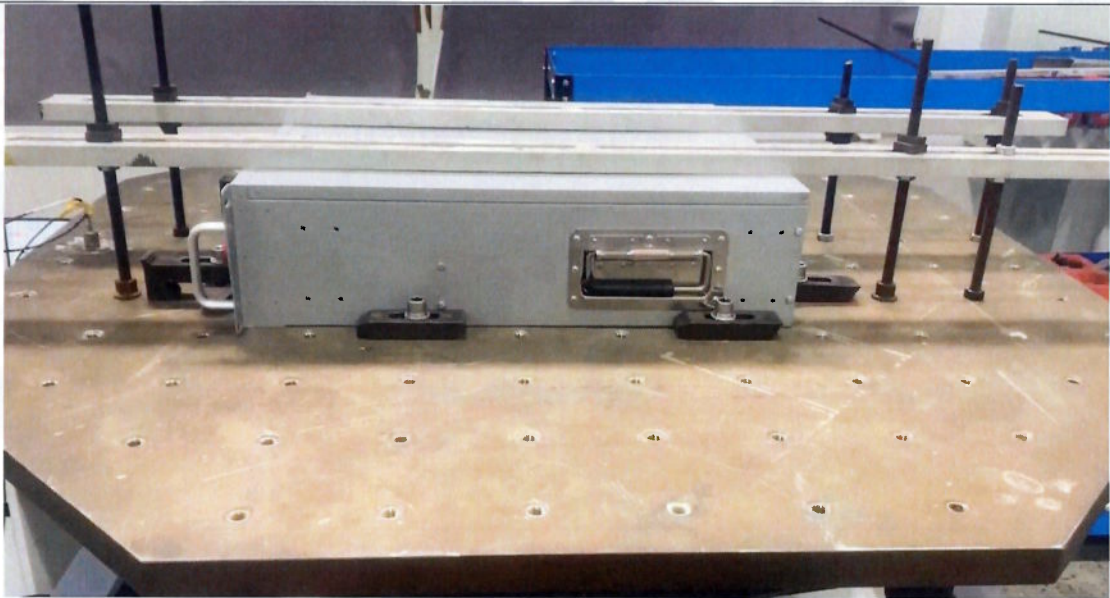
FreeDegrees:154

Full Level Time: 00:05:24

DrivePeak:0.509058 V

Lateral axis vibration 2 1.5 G 0.09h

Vibration shaft test photo

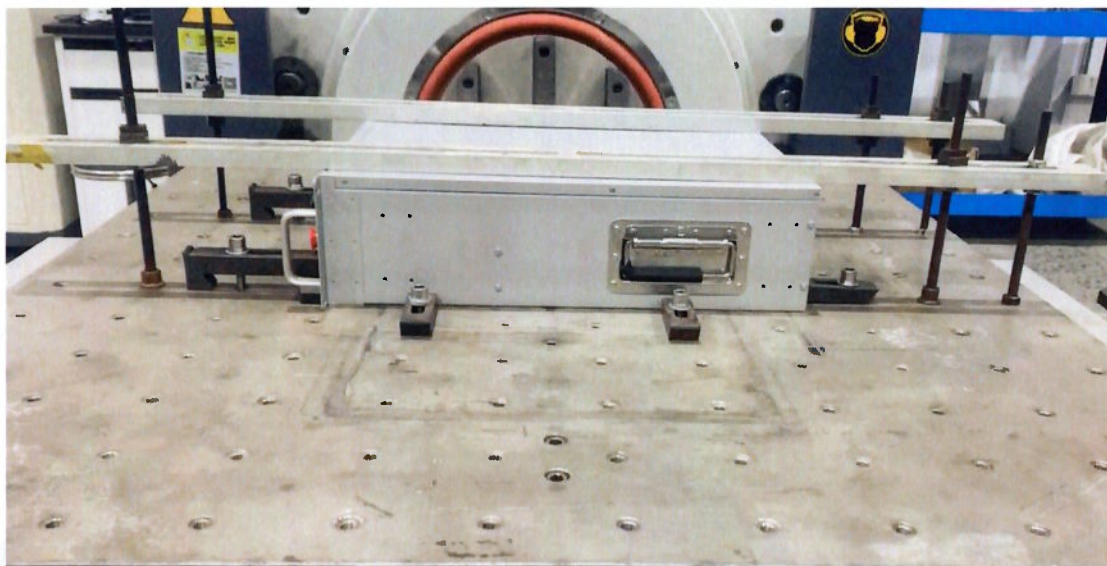


Vertical vibratory clamping

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Transverse vibration clamping



Longitudinal vibration clamping

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Photo of the sample



Sample front



Sample side



Sample top



Sample bottom

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Main instrumentation

No.	Equipment name	Equipment model	Calibration certificate	Calibration validity period	Remark
1	Electrodynamic vibration test system	ES-60-445 LT1212(M)/ VT1212(M) Dyno Ling IM6002C	E230904012001-1	2024.09.03	/
2	Electronic balance	YP300000(0~300kg)	2024HQ06140002	2025.06.13	/
3	Multimeter	D05961	423011844-008	2024.08.27	/

***** End of report *****

