

Qualification Test Report

Company ZincFive

Address 220170 SW 112th Avenue

Tualatin, OR 97062

Device BC 2 Battery Cabinet

Model ZF-38A__KB

BC 2 Battery Cabinet

Report Number JID 22-01199 Rev.1

Purchase Order 10591

Job Identification JID 22-01199
Testing Date 12/08/2022
Issue Date 2/14/2023

Issued By Clark Dynamic Test Laboratory Inc.

1801 Route 51 South

Jefferson Hills, PA 15025

Prepared By:	Reviewed By:
alue al	Gacob Martin
Devon Lohr	Jacob Martin
General Manager	Mechanical Engineer
Clark Testing	Clark Testing

Amendments to Report

REV#	ISSUE DATE	PREPARED BY (CLARK)	SECTION	AMENDMENTS
0	1/30/2023	Devon Lohr	All	Initial Release
1	02/09/2023 Devon Lohr Various Addressed R		Addressed Rev.0 Customer Comments	

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Conformance Statement

The testing performed on the equipment described herein conforms to the requirements set forth in the referenced procedure. Any deviations from these requirements are listed below and have been approved by the responsible supplier representative.

Customer Information: ZincFive.

220170 SW 112th Avenue Tualatin, OR 97062

Customer Purchase Order No: 10591 Revision: 08/08/2022

Job Identification Number: 22-01199

Test Date: 12/08/2022

Test Item: Battery Cabinet

Model: ZF-38A___KB

BC 2 Battery Cabinet

Serial Number: DWFS-2022-47-000003

Quantity: One (1)

Reference Procedure: ICC AC156

Conducted Test: Three (3) Sine Sweeps, Two (2) Seismic Earthquakes

Test Results: Testing was conducted, for only the item listed above, in

accordance with the above referenced procedure and/or

specification.

Test Deviations: None

The process and testing operations noted above have been performed within the requirements of the Clark Testing Management System Manual, dated January 2, 2019.

Prepared By: Reviewed By: Issue Date:

Michelle Pelicetti February 14, 2023

Devon Lohr Michelle Felicetti General Manager Quality Manager

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1. Summary

1.1. Purpose

The purpose of this document is to present the necessary information to verify testing was performed in accordance with the referenced test standard. A satisfactory test will meet the Criteria outlined in "ACCEPTANCE CRITERIA FOR SEISMIC CERTIFICATION BY SHAKE-TABLE TESTING OF NONSTRUCTURAL COMPONENTS", ICC AC156.

1.2. Applicable References, Standards, and Procedures

• ICC AC156 – "Acceptance Criteria for Seismic Certification by Shake-Table Testing of Nonstructural Components"

1.3. Laboratory Equipment

1.3.1. Shake Table Specifications

The qualification program was conducted on an ANCO R6 Shake Table with the following specifications:

ANCO R-6 Triaxial Shake Table

- Three 38kips Hydraulic Actuators
- 50ips Velocity
- + / 5" Peak Displacement
- 1Hz to 100Hz Frequency Capability
- 10ft Hexagonal Table, Measured Across the Flats (can be extended)
- 20,000lb max payload capacity

1.3.2. Instrumentation Calibration

Equipment and instrumentation were in calibration, traceable to the National Institute of Standards & Technology. The following figure lists the equipment used for the test program. The following list shows the Clark Testing Laboratory McBee identification number and the calibration due date.



Job Number: JID 22-01199

Start Date: 12/08/22 - End Date: 12/08/22

Traceability Report for McBee Number(s): 4055, 4056, 4057, 4611, 4431, 4422, 4762, 4616, 4174, 4176, 4419

Cal. Due	Location	Instrument No.	McBee No.	Instrument	Model No.	Manfacturer	Serial No.
06/08/2024	StandardsLab	226	4055	Vibration Controller	8500	Vibration Research Corp.	1B87CE
06/08/2024	StandardsLab	227	4056	Vibration Controller	8500	Vibration Reasearch Corp.	1B8302
06/08/2024	StandardsLab	228	4057	Vibration Controller	8500	Vibraton Reseach Corp.	1B9028
03/07/2023	Seismic	1307	4611	Accelerometer	7596A-30	Endevco	32466
03/07/2023	Seismic	242	4431	Accelerometer	7596A-30	Endevco	32016
03/07/2023	Seismic	233	4422	Accelerometer	7596A-30	Endevco	32017
07/21/2023	Seismic	1490	4762	Torque Wrench	Computorq 3 2503CF3HA	CDI Torque Products (Snap On)	0215014880
10/27/2023	StandardsLab	1607	4616	Accelerometer	7596A-30	Endevco	331 47
10/27/2023	StandardsLab	195	4174	Accelerometer	7596A-30	Endevco	31298
10/27/2023	StandardsLab	188	4176	Accelerometer	7596A-30	Endevco	31300
07/28/2023	StandardsLab	696	4419	Hanging Scale-Dock	5THB	Caston II	TH10204753

Figure 1: Calibration and Traceability Report

1.3.3. Location

Triaxial accelerometers (A1 FB, A2 SS and A3 V) were the controls used as a constant measure of table activity. The following tables provide the characteristics and location of the instrumentation used during testing.

Name	McBee #	mV/g	Calibration Due	Location				
A1 FB	4611	66.05	03/07/2023					
A2 SS	4431	66.25	03/07/2023	Control – Seismic Table				
A3 V	4422	66.20	03/07/2023					
A4 FB	4616	66.40	10/27/2023					
A5 SS	4174	66.27	10/27/2023	Top, Right, Side, Front				
A6 V	4176	66.95	10/27/2023					

Table 1: Equipment Location



Figure 2: Placement of A4, A5, and A6

1.4. Observers

Testing was witnessed by ZincFive representative, Aaron Schott.

ZincFive
220170 SW 112th Avenue
Tualatin, OR 97062
Aaron Schott
aschott@zincfive.com
503-399-3517

Testing was performed at Clark Dynamic Test Laboratory Inc. under the guidance of Clark General Manager, Devon Lohr.

Clark Dynamic Test Laboratory Inc. 1801 Route 51 South Jefferson Hills, PA 15025 Devon Lohr dlohr@clarktesting.com 412-387-1026

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1.5. Equipment to be Qualified

The following table describes the characteristics of the equipment. No damage was noted upon receipt inspection.

Name	Designation	Designation Serial Number		Dimensions
BC 2 Battery Cabinet	UUT1	DWFS-2022-47-000003	1,841lbs.	36" L x 21" W x 82½" H

Table 2: Equipment Information

1.6. Seismic Parameters

1.6.1. Resonant Frequency Search

UUT1 was subjected to a single-axis sine sweep in each of the three orthogonal axes.

Frequency Range (Hz)	Sweep Rate (oct/min)	Acceleration Level (g)
1.3-33.3	2	0.07

Table 3: Resonant Frequency Search

1.6.2. Multi-frequency Seismic Simulation Tests

Prior to UUT mounting, the amplitude of each spectrum was independently adjusted in each of the three axes until the Test Response Spectra (TRS) enveloped each Required Response Spectra (RRS). The TRS were analyzed with 5% damping and plotted at % octave intervals. The RRS were based on the normalized response spectra shown in the figure below.

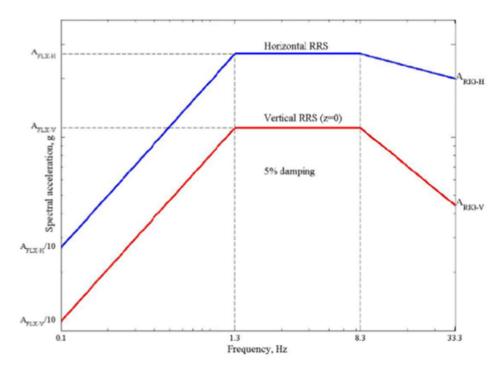


Figure 3: Normalized RRS

2. Execution and Results

2.1. UUT1

2.1.1. Mounting

UUT1 was mounted on the seismic table using four (4) $\frac{3}{2}$ -10 SAE grade 5 hex bolts with washers, and lock washers torqued to 150ft.-lbs. The table direction to UUT1 is shown in the diagram on page I-5 of Appendix I.



Figure 4: UUT1 Pre-Test Condition



Figure 6: UUT1 Pre-Test Condition



Figure 8: UUT1 Pre-Test Condition



Figure 5: UUT1 Pre-Test Condition



Figure 7: UUT1 Pre-Test Condition



Figure 9: UUT1 Pre-Test Condition

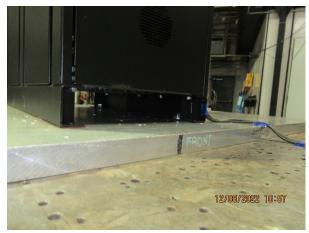




Figure 10: UUT1 Pre-Test Condition

Figure 11: UUT1 Pre-Test Condition

2.1.2. Resonance Search

Clark Testing performed the resonance search as described in Section 1.6.1.

UUT	RESONANCE FREQUENCY (Hz)			
Identification	Front-to-Back Side-to-Side Vertical			
UUT 1	12.28	10.07	N/A	

Table 4: Resonance Frequency

2.1.3. Run 1 (Multi-frequency Seismic Simulation Test)

On 12/08/2022 Clark Testing performed run 1 in accordance with AC 156. The test was performed as described in Section 1.6.2., with the levels described in the following table.

Test Level	Test Criteria	Demand Level		Horizontal		Vertical	
		S _{DS}	z/h	A_{FLX-H}	A _{RIG-H}	A_{FLX-V}	A _{RIG-V}
1	AC156	1.5	1	2.4	1.8	1.01	.41

Table 5: Run 1 Seismic Parameters

Generated table input motion and test response spectrum were reviewed against criteria detailed in ICC AC156 section 6.5. The test met the acceptance criteria and was therefore determined acceptable. Plots of the run are available in Appendix II.

Damage noted after the test:

No damage.

The minimum and maximum peak accelerations of run 1 are listed in the table below.

Channel	Minimum (-g)	Maximum (g)
A1 FB	2.06	1.98
A2 SS	1.88	1.69
A3 V	1.24	1.47
A4 FB	3.39	2.75
A5 SS	4.41	3.4
A6 V	1.49	1.48

Table 6: Run 1 Peak Accelerations



Figure 12: Run 1 Post-Test Condition



Figure 14: Run 1 Post-Test Condition



Figure 13: Run 1 Post-Test Condition



Figure 15: Run 1 Post-Test Condition



12/08/2022 11:50

Figure 16: Run 1 Post-Test Condition







Figure 18: Run 1 Post-Test Condition

Figure 19: Run 1 Post-Test Condition



Figure 20: Run 1 Post-Test Condition

2.1.4. Post-Test Functional

The base mounting bolts were checked for torque. Proper torque value was confirmed. Aaron Schott, ZincFive representative, checked various hardware on UUT1.

2.1.5. Run 2 (Multi-frequency Seismic Simulation Test)

On 12/08/2022 Clark Testing performed run 2 in accordance with AC 156. The test was performed as described in Section 1.6.2., with the levels described in the following table.

Test Level	Test Criteria	Demand l		Horiz	ontal	Ver	tical
		S _{DS}	z/h	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
1	AC156	2.29	1	3.66	2.75	1.53	.62

Table 7: Run 2 Seismic Parameters

Generated table input motion and test response spectrum were reviewed against criteria detailed in ICC AC156 section 6.5. The test met the acceptance criteria and was therefore determined acceptable. Plots of the run are available in Appendix II.

Damage noted after the test:

• The front, bottom seismic brace sheared the right cross brace mounting screw. The brace did not affect the structural ability of the cabinet, the security of the access panels/doors, and did not present any projectile hazard. Test was deemed a PASS.

The minimum and maximum peak accelerations of run 2 are listed in the table below.

Channel	Minimum (-g)	Maximum (g)
A1 FB	2.95	2.76
A2 SS	2.81	2.68
A3 V	2.03	1.98
A4 FB	5.66	5.79
A5 SS	6.77	6.81
A6 V	2.51	2.17

Table 8: Run 2 Peak Accelerations



Figure 21: Run 2 Post-Test Condition



Figure 22: Run 2 Post-Test Condition



Figure 23: Run 2 Post-Test Condition



Figure 24: Run 2 Post-Test Condition



Figure 25: Run 2 Post-Test Condition



Figure 26: Run 2 Post-Test Condition



Figure 27: Run 2 Post-Test Condition



Figure 28: Run 2 Post-Test Condition



Figure 29: Run 2 Post-Test Condition

2.1.6. Post-Test Functional

UUT1 was removed from the seismic table and prepared for shipping. This concluded testing on UUT1. The test program was completed.



APPENDIX I

Clark Testing Laboratory Test Record Logbook

Read and understood by - witness

Logbook Page of
Clark Testing Laboratory
Contract Number: 110 22-01199
Customer: Ometek (Zinc fivE)
Test Specification: AC-156
Steps Completed: (3) Sive Sweeps FB, SS, Vaxis
a) seismic earthquakes
Approved by Customer Representative:

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	Logbook Page 👃 of 💪
INSPECTI	ON
UUT Number: UUT 1	
Type of Unit: Battery Cabinet	
Serial Number: DWFS - 2022 - 47 - 0	00003
Model Number: NA ZF-38A6SU022KI	3\CF
Weight of Unit: 1841 1b.	
RECEIPT INSPECTION - Check for Damage and Photogra	ph:
Top of UUT Bottom of UUT Sides of UUT (all) Internal (if applicable)	Photograph
POST TEST INSPECTION - Check for Damage and Photogovisual Top of UUT Bottom of UUT Sides of UUT (all) Internal (if applicable) Damage Noted: 36 L x 21 w x 82/2 + No affacent damage	Photograph
Signature(s) person making entry: Mark Jaccruser	19 0 00
Read and understood by And Month	Date 12-8-22 Date 1-31-23

Logbook Page Jof 6

McBee #	In Service Start N Date MI	In Service Due Date	Equipment Name
4055	5-26-2268	12 5-6-8-24	VR 8 500 BOX
4056	6-8-22	6-8-24	VR8500 BOX
4057	6-8-22	6-8-24	VR8500 Box
4611	3-7-22	3-7-23	accelerometer
4431	3-7-22	3-7-23	accelerametier
4422	2-7-22	3-7-23	accelerometer
47102	7-21-22	7-21-23	Torque wrench
4616	10-27-22	10-27-23	acceler ometier
4174	10-27-22	10-27-23	accelerometer
4176	10-27-22	10-27-23	accelerometer
4419	7-28-22	7-28-23	overhead scale
	7.0		ONO LICKOR SCALLE
			,
	nN	1	
ature(s) person r	naking entry: Wash	Jacovino	Date 12-8-26
and understood	$C_1 \cap n$	1/1	Date /-31-23

I-4 of I-7
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nvironmental: Temp:/	NA Humidity:	NA	Logbook Page 4 of
Table Setup No	1		
EUT Mounting Des	scription		
EUT: Number of Fasteners: Diameter and Thread: Grade: Style: Torque:	3/4-10 5 Hex Head 150 ft 16	- Also was	isher, and Lock washer
Channel Assignmen	nt		
Name A1-FB A2-SS A3-V A4-FB A5-SS A6-V	Mcbee 4611 4431 4432 466 4174 4176	mV/g 66,05 66,25 66,25 66,40 66,40	Location Scismic table Control Top-Right side-Front
Top View of Table			
	frov	The state of the s	SS axis
gnature(s) person making entr		Jacovino	Date 12-8-22
ead and understood by:	Gal Min	A	Date/-3/-23

Environmental: Temp: NA Humidity: NA	Logbook Page 5 of 6
Table Setup No. 1	
Performed Pre-Test Functional NA	
,,,,,,	
Performed Resonance Search	
Performed ER SS and Vertical sine away from 13 II . 22 2 II	. —
Performed FB, SS, and Vertical sine sweep from 1.3 Hz to 33.3 Hz Oct/min. 2	at a constant · O [G-pk acceleration
Run No.	
Performed shake test at the following level: AC-156 @ 1.5 HORIZONFAL AFLX ARIG 2.4 1,8	sis Zhai
Horizontal	Vestica (
AFLX ARIG	AFLX ARIG
2.7 1,8	1.01 ,41
Did the TRS meet or exceed the test requirements? Yes No	
If No:	
Post Test Visual Inspection No apparent damage	
No apparent damage	
Dood Tool For All 1/C 4	
Post Test Functional/Customer Modifications	
Baca manthe a latter was	-1 /
Base mounting botts were a for torque still good	Checked
Customer checked various hard	dware on uutl
an A	-
Signature(s) person making entry: ////////////////////////////////////	Date 12-8-22
Read and understood by: Jew Mark	Date 1-31-23

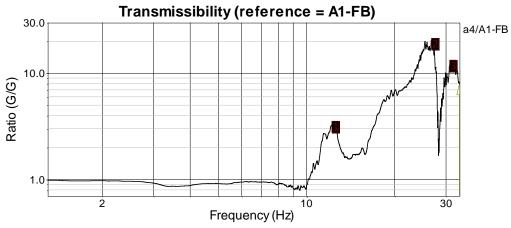
nvironmental: Temp: <u>NA</u> Humidity: <u>NA</u>	Logbook Page 6 of 6
Table Setup No. 1	
Performed Pre-Test Functional N/A-	
74]75	
Performed Resonance Search NA	,
Performed FB, SS, and Vertical sine sweep from Hz to Hz at a constant	
Performed FB, SS, and Vertical sine sweep from Hz to Hz at a constant Oct/min.	G-pk acceleration
Δ.	
Run No 2_	
Performed shake test at the following level: AC-156 @ 2.29 Sas	7/ - 1
Horizontal Vestice	2/h=1
AFLX ARIC AFLY	ARIG
3.66 2.75 1.53	.62
Did the TRS meet or exceed the test requirements? Yes No	
If No:	
Post Test Visual Inspection	
1) front bottom seismic prace shear Right cross brace mounting screu No other apparent damage	ved the
Right cross brace mounting screw	J.
No other affarent damage	
D. (T. (T.)	
Post Test Functional/Customer Modifications	
Removed from Seismic table	
MONOVED FROM SEISMIC TODIC	
ignature(s) person making entry: Mash Jacovina	Date 12-8-22
0 10000000	
ead and understood by: Sent Must	Date [-31-23

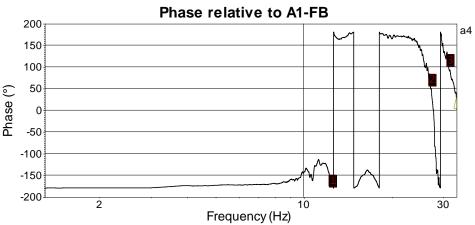


APPENDIX II Seismic Data Plots



CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 10:35:59
RUN NO.	Front to Back axis
SWEEP RATE	Sweep between 1.3 Hz and 33.3 Hz at 2 Oct/min
DURATION	0:02:21

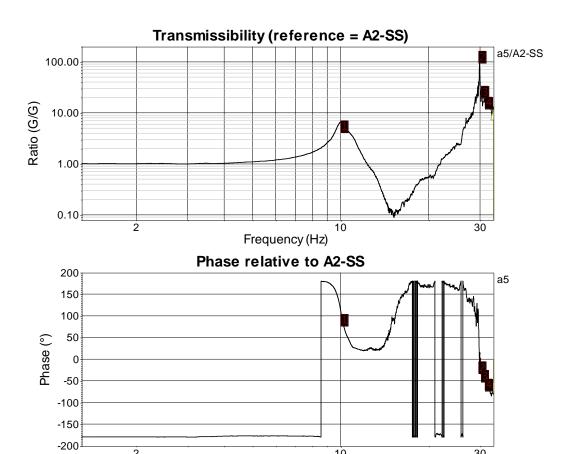




Resonance Data			
INDEX	Frequency (Hz)	PHASE (Degree)	AMPLITUDE (G/G)
1	12.28	-151.4	3.5
2	26.89	81.4	20.9
3	31.07	126.7	13.1



CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 10:31:20
RUN NO.	Side to Side axis
SWEEP RATE	Sweep between 1.3 Hz and 33.3 Hz at 2 Oct/min
DURATION	0:02:21

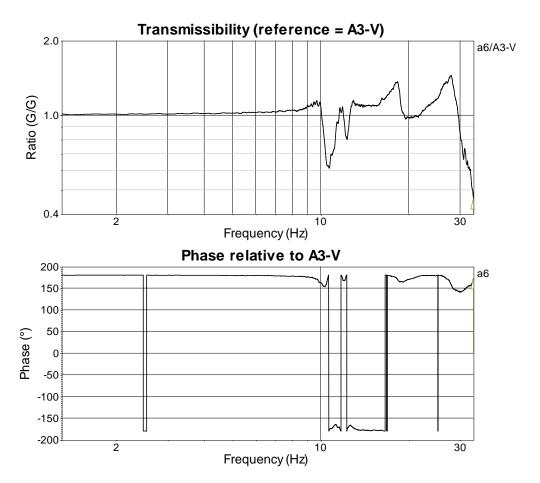


Resonance Data			
INDEX	Frequency (Hz)	PHASE (Degree)	AMPLITUDE (G/G)
1	10.07	101.5	6.8
2	29.87	103.5	155.7
3	30.46	-27.5	32.0
4	31.41	-47.5	19.6

Frequency (Hz)



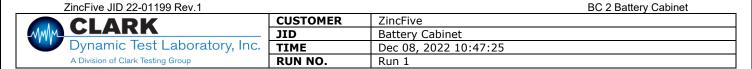
CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 10:40:27
RUN NO.	Vertical axis
SWEEP RATE	Sweep between 1.3 Hz and 33.3 Hz at 2 Oct/min
DURATION	0:02:21

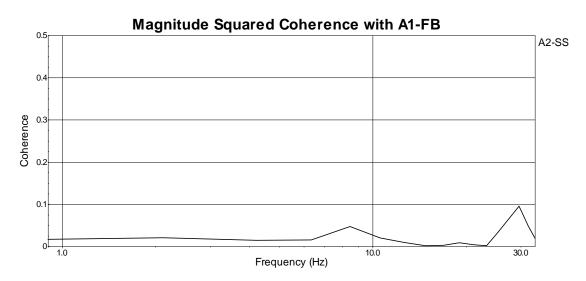


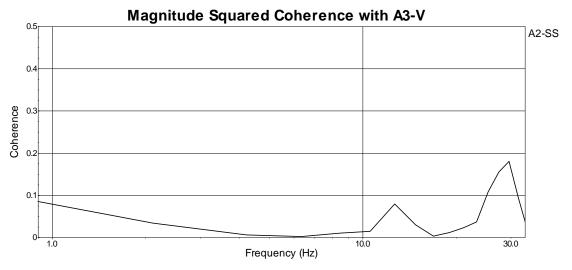
Resonance Data			
INDEX	Frequency (Hz)	PHASE (Degree)	AMPLITUDE (G/G)
1	n/a	n/a	n/a

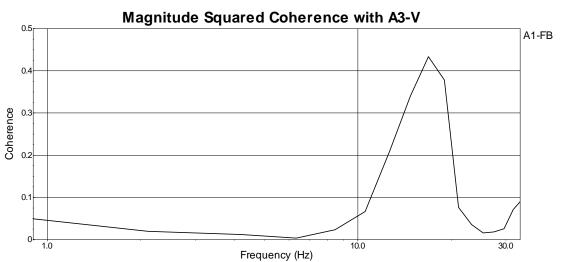
ZincFive JID 22-01199 Rev.1		BC 2 Battery Cabinet
CLARK	CUSTOMER	ZincFive
2V/W/ME	JID	Battery Cabinet
Dynamic Test Laboratory, Inc.	TIME	Dec 08, 2022 10:47:25
A Division of Clark Testing Group	RUN NO.	Run 1

CROSS CORRELATION FUNCTION PLOTS







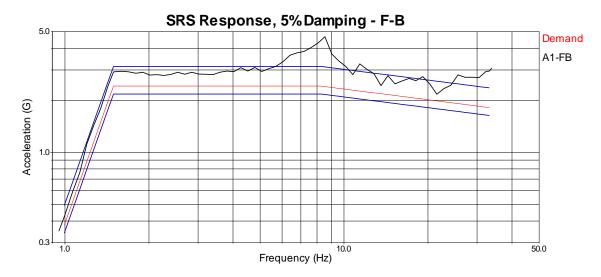


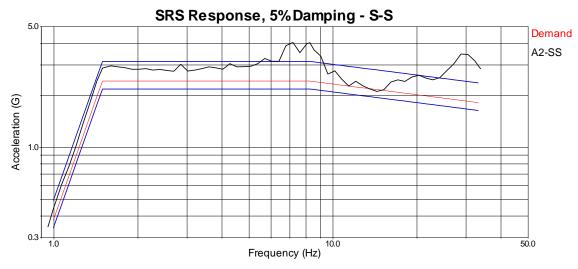
ZincFive JID 22-01199 Rev.1		BC 2 Battery Cabinet
CLARK	CUSTOMER	ZincFive
5 V V V C	JID	Battery Cabinet
Dynamic Test Laboratory, Inc.	TIME	Dec 08, 2022 10:47:25
A Division of Clark Testing Group	RUN NO.	Run 1

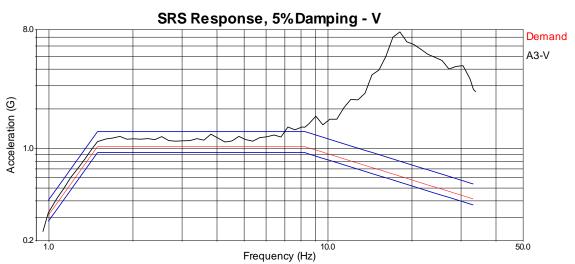
TABLE INPUTS



	BC 2 Battery Cabinet
CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 10:47:25
RUN NO.	Run 1

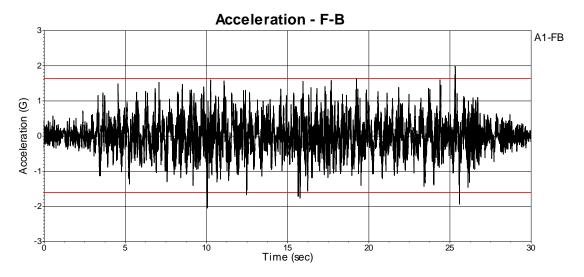


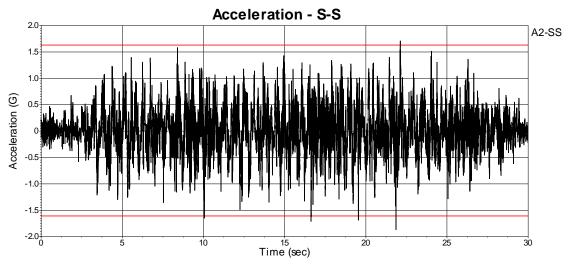


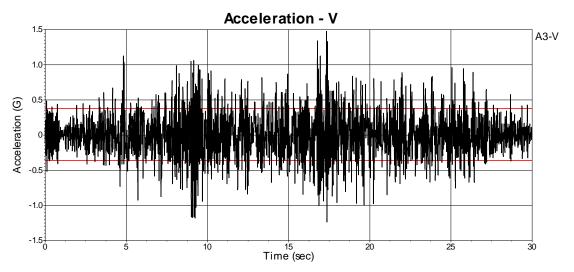




	BC 2 Battery Cabinet
CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 10:47:25
RUN NO.	Run 1





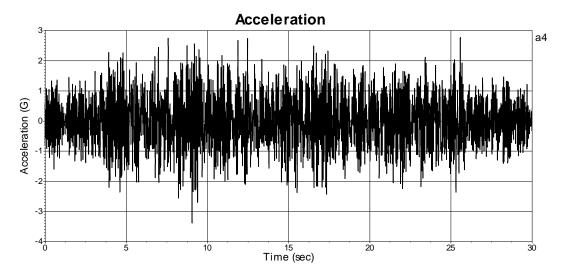


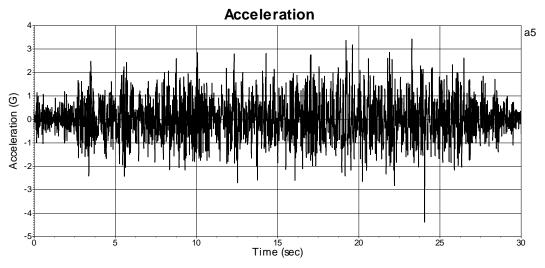
ZincFive JID 22-01199 Rev.1		BC 2 Battery Cabinet
CLARK	CUSTOMER	ZincFive
2V/W/ME	JID	Battery Cabinet
Dynamic Test Laboratory, Inc.	TIME	Dec 08, 2022 10:47:25
A Division of Clark Testing Group	RUN NO.	Run 1

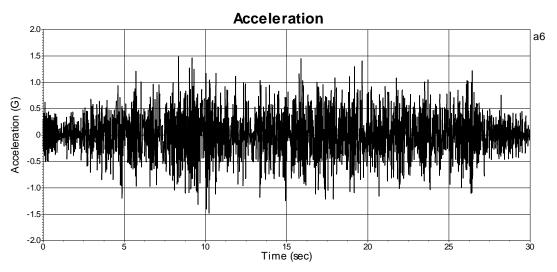
TIME HISTORY PLOTS



	BC 2 Battery Cabinet
CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 10:47:25
RUN NO.	Run 1



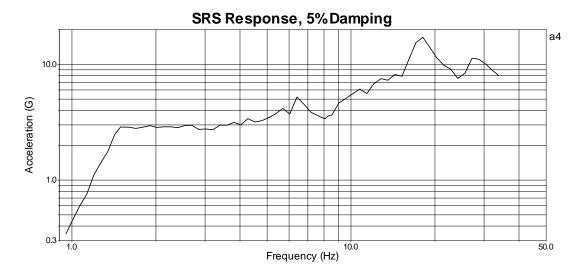


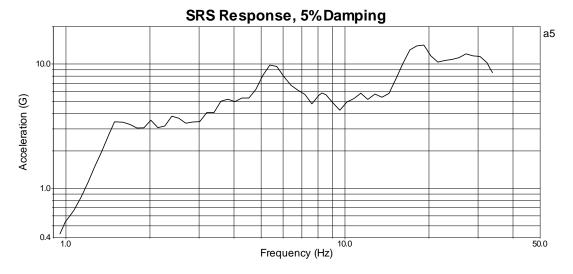


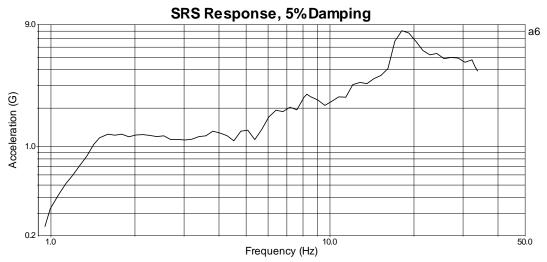
ZincFive JID 22-01199 Rev.1		BC 2 Battery Cabinet
CLARK	CUSTOMER	ZincFive
	JID	Battery Cabinet
Dynamic Test Laboratory, Inc.	TIME	Dec 08, 2022 10:47:25
A Division of Clark Testing Group RUN NO.		Run 1

RESPONSE SPECTRUM PLOTS

	BC 2 Battery Cabinet
CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 10:47:25
RUN NO.	Run 1

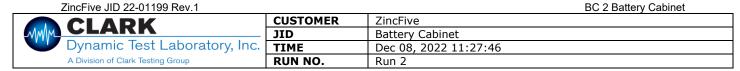


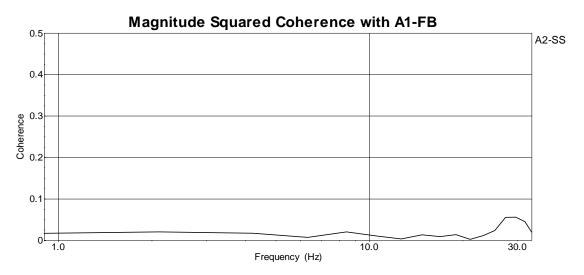


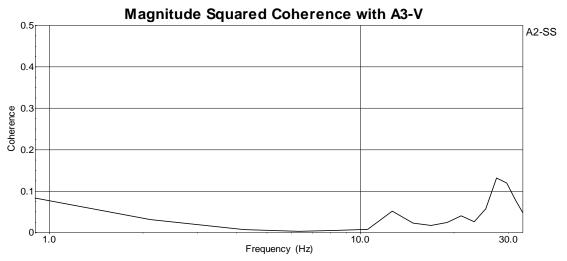


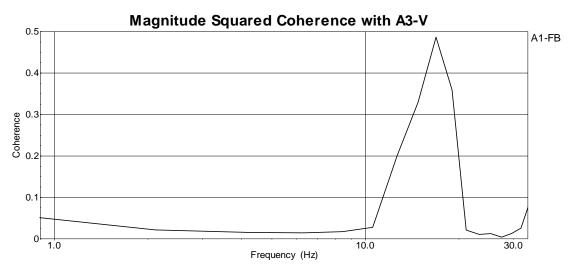
ZincFive JID 22-01199 Rev.1		BC 2 Battery Cabinet
CLARK	CUSTOMER	ZincFive
27////-	JID	Battery Cabinet
Dynamic Test Laboratory, Inc.	TIME	Dec 08, 2022 11:27:46
A Division of Clark Testing Group	RUN NO.	Run 2

CROSS CORRELATION FUNCTION PLOTS







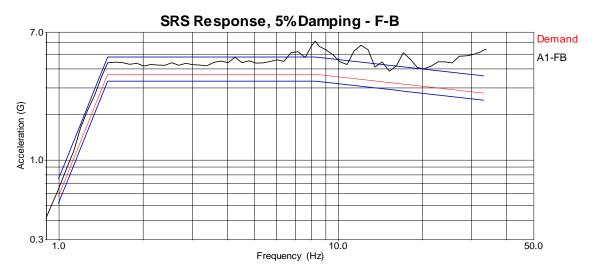


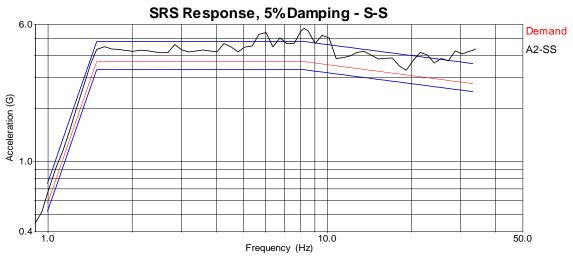
ZincFive JID 22-01199 Rev.1		BC 2 Battery Cabinet
CLARK	CUSTOMER	ZincFive
	JID	Battery Cabinet
Dynamic Test Laboratory, Inc.	TIME	Dec 08, 2022 11:27:46
A Division of Clark Testing Group	RUN NO.	Run 2

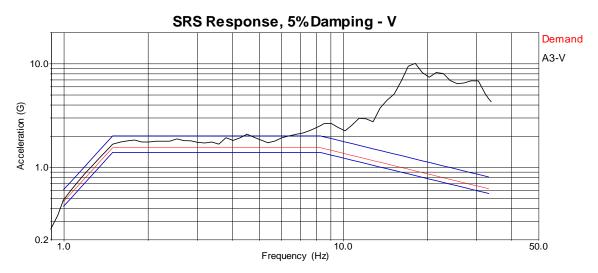
TABLE INPUTS



CUSTOMER ZincFive
JID Battery Cabinet
TIME Dec 08, 2022 11:27:46
RUN NO. Run 2

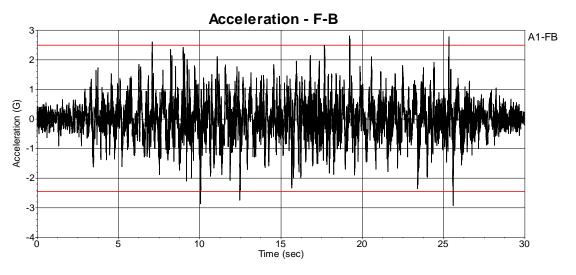


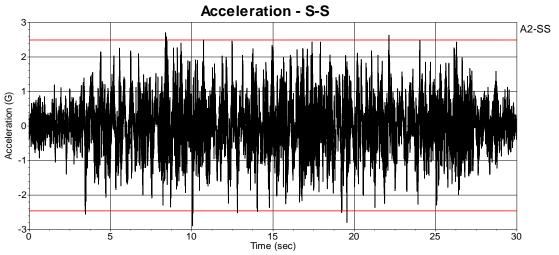


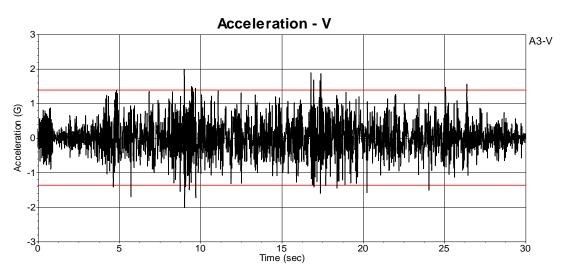




	BC 2 Battery Cabinet
CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 11:27:46
RUN NO.	Run 2



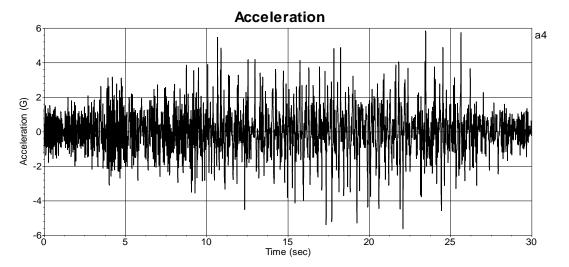


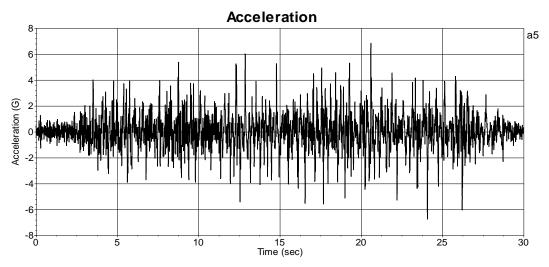


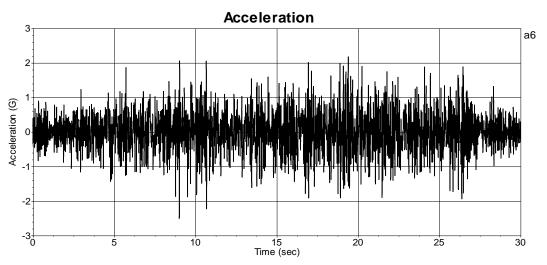
ZincFive JID 22-01199 Rev.1		BC 2 Battery Cabinet
CLARK Dynamic Test Laboratory, Inc. A Division of Clark Testing Group	CUSTOMER	ZincFive
	JID	Battery Cabinet
	TIME	Dec 08, 2022 11:27:46
	RUN NO.	Run 2

TIME HISTORY PLOTS

	BC 2 Battery Cabinet
CUSTOMER	ZincFive
JID	Battery Cabinet
TIME	Dec 08, 2022 11:27:46
RUN NO.	Run 2







ZincFive JID 22-01199 Rev.1		BC 2 Battery Cabinet
CLARK Dynamic Test Laboratory, Inc.	CUSTOMER	ZincFive
	JID	Battery Cabinet
	TIME	Dec 08, 2022 11:27:46
A Division of Clark Testing Group	RUN NO.	Run 2

RESPONSE SPECTRUM PLOTS

 CUSTOMER
 ZincFive

 JID
 Battery Cabinet

 TIME
 Dec 08, 2022 11:27:46

 RUN NO.
 Run 2



