

SPBL, INC.

TEST REPORT

SCOPE OF WORK

UL 2043, FOURTH EDITION, DATED OCTOBER 2, 2013, FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS AND THEIR ACCESSORIES INSTALLED IN AIR-HANDLING SPACES ON STEWART AUDIO DPA-240 – POE TYPE 3

REPORT NUMBER

105448197SAT-001

TEST DATE

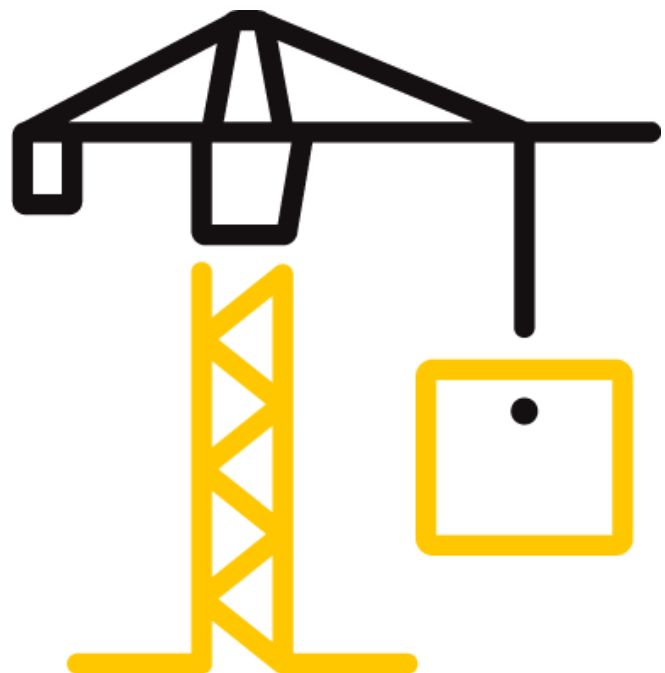
05/25/2023

ISSUE DATE

05/26/2023

PAGES

10



TEST REPORT FOR SPBL, INC.

Report No.: 105448197SAT-001

Date: 05/26/2023

REPORT ISSUED TO

SPBL, INC.

14335 Cuesta Ct c

Sonora, CA 95370

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by SPBL, INC., to perform testing in accordance with UL 2043, Fourth Edition, dated October 2, 2013, Fire test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces, on their STEWART AUDIO DPA-240 – POE TYPE 3. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek B&C test facility in Elmendorf, Texas.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.


This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

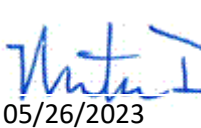
SECTION 2

SUMMARY OF TEST RESULTS

Test Run	Specimen Model	RESULTS
001	Stewart Audio DPA-240 – PoE Type 3	MET

For INTERTEK B&C:

COMPLETED BY: Theodore Salazar
TITLE: Technician 3
SIGNATURE: 
DATE: 05/26/2023

REVIEWED BY: Michael Dey
TITLE: Project Engineer
SIGNATURE: 
DATE: 05/26/2023

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SECTION 3

TEST METHOD(S)

The specimen was evaluated in accordance with the following:

UL 2043, FOURTH EDITION, DATED OCTOBER 2, 2013, FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS AND THEIR ACCESSORIES INSTALLED IN AIR-HANDLING SPACES

This test method is for determining the fire performance response of discrete products (including, but not limited to electrical equipment) intended to be installed in air handling spaces, such as above suspended ceilings or below floors. These products are subjected to an open flame ignition source and evaluated using a product calorimeter. The purpose of this test is to determine the rate of heat release and the rate of smoke release of the burning product samples as they relate to the requirements for fire-resistant and low-smoke-producing characteristics in accordance with the provisions of the following codes: National Electric Code, NFPA 70; the International Mechanical Code, NFPA 5000; and the Standard for the Installation of Air Conditioning and Ventilating Systems, NFPA 90A.

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Theodore Salazar	Intertek B&C

SECTION 5

EQUIPMENT

Equipment Type	Equipment No.	Cal. Due Date
Thermo-Hygrometer	1927056	08/24/23
Pressure Transducer	3936715	06/14/23
Data Acquisition System	02LE006	06/02/23
Flowmeter (0-8 SCFM)	63721010006	Ref. Only
Stopwatch	181512638	06/21/23

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SECTION 6

TEST PROCEDURE

All instrumentation was zeroed and calibrated prior to testing. The test specimen, after conditioning to 73°F and 50% R.H., was placed on the specified test frame / enclosure. The 12" x 12" x 4" propane test burner was centered under the specimen and the test was started. The test specimen is exposed to a direct flame impingement with a heat release rate of 60 kW (92 cubic feet per hour). The test was conducted for 10 minutes at which time the gas burner is shut off.

SECTION 7

TEST SPECIMEN SELECTION AND DESCRIPTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples, in good condition, were received at the Evaluation Center on May 1, 2023 (SAT2305011609-001).

The specimen consisted of a audio devise. One specimen was provided. For addition details, see the data and photographs in this report. See Section 10.

SECTION 8

TEST AND OBSERVATIONS RESULTS

Test – Specimen-001

The specimen was placed in the test enclosure and tested at 1:17 p.m. on May 25, 2023. The ambient temperature was 73°F, with a relative humidity of 64%. The data recorded includes Smoke Release Rate (SRR), Heat Release Rate (HRR). The acceptance criteria data was calculated from these values using the formulas in UL 2043 Section 7. This data may be found in Section 9.

Observations during the test were recorded. The observations are as follows:

TIME (min:sec)	OBSERVATION
0:00	The 60-kW propane burner was ignited.
0:22	The specimen began melting.
0:41	Smoke was visible from the specimen.
10:00	Propane burner was turned off. Test Terminated.

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SECTION 9

EVALUATION RESULTS AND CONCLUSION

ITEM	RESULTS
	001
	Stewart Audio DPA-240 – PoE Type 3
Peak rate of heat release (HRR _s)	7 kW
Peak rate of smoke release (SRR _s)	0.10 m ² /s
Total smoke released for first 10 minutes (TSR)	19 m ²
Peak normalized optical density*	0.24
Average normalized optical density (for first 10 minutes 10 min) *	0.07
Results (Passed / Failed)	Passed

(*Informational data only, not used for acceptance criteria)

ACCEPTANCE CRITERIA

1. The peak rate of heat release (HRR_s) measured during each test shall be 100 kilowatts or less.
2. The peak smoke release rate measured during each test shall be 0.21 m²/s or less, SRRs.
3. The total smoke release (10-minute test duration) shall be 75 m² or less, TSR.

Intertek Testing Services NA (Intertek) has conducted testing for SPBL, INC., on the STEWART AUDIO DPA-240 – POE TYPE 3 to evaluate heat and smoke release. Testing was conducted in accordance with UL 2043, Fourth Edition, dated October 2, 2013, Fire test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces. The specimen tested met the requirements of this test method.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

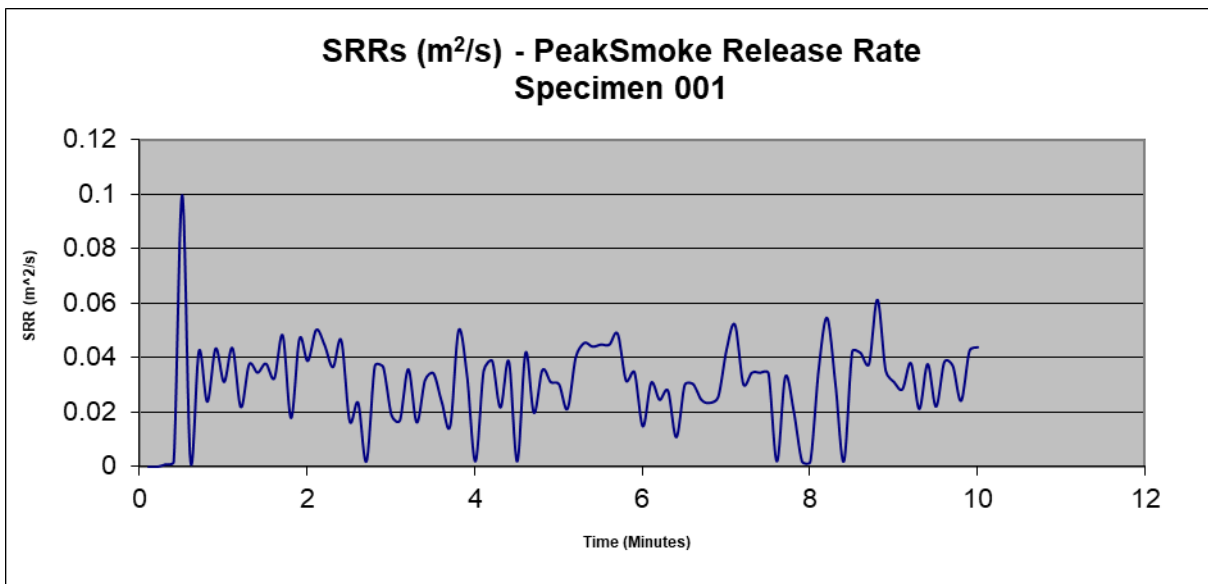
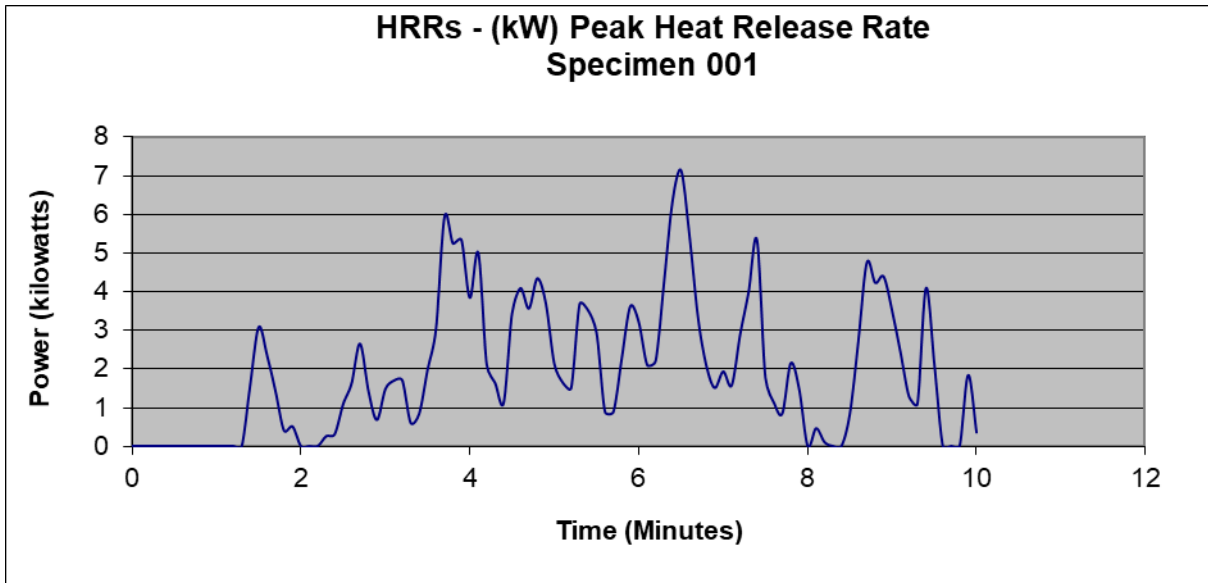
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SECTION 10

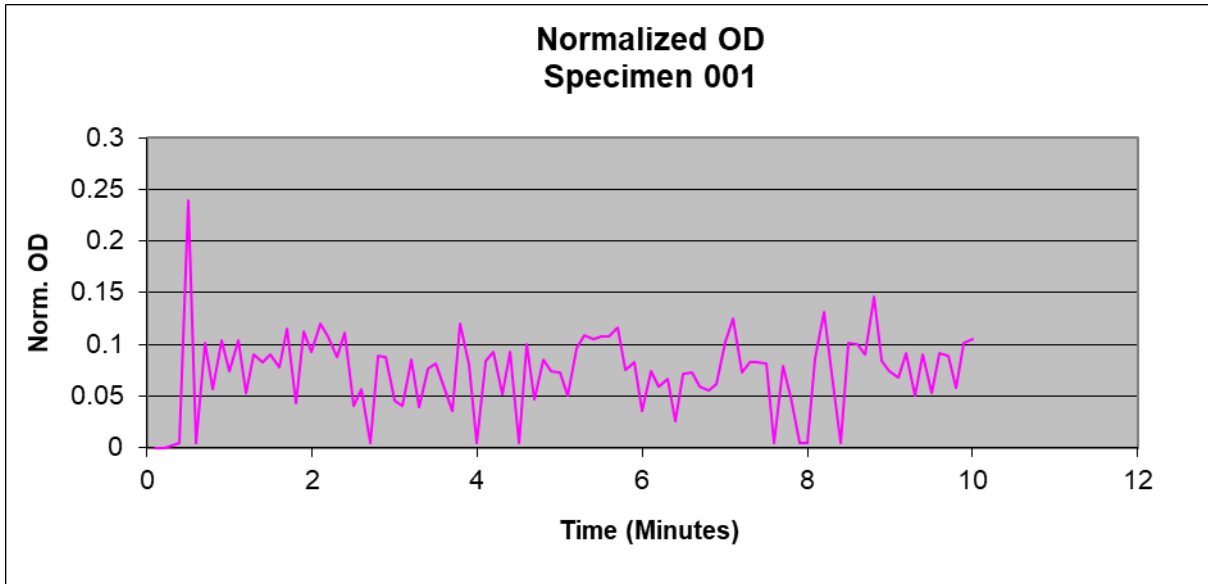
TEST DATA AND PHOTOGRAPHS



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Pre-test photo

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Pre-test photo

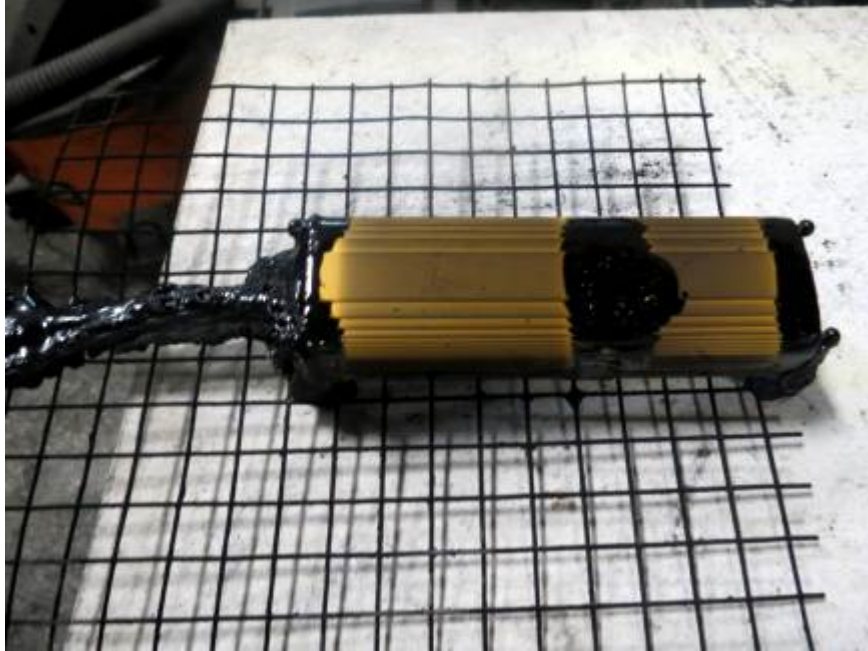


Test photo

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Post-test photo



Total Quality. Assured.

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SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/26/2023	N/A	Original Report Issue