

Engineering Test Summary

Emergency Siren Conformance - SAE J1849

SIREN MODELS: 349XX SERIES XCEL 12V SIREN

1. Rationale/Background:

This document summarizes conformance testing per SAE J1849 (Oct 2012) on the above stated products as conducted by ESG's Test Laboratory.

2. References:

SAE J1849 (Oct 2012) – Emergency Vehicle Sirens

SAE J575 (Aug 2015) – Test Methods And Equipment For Lighting Devices And Components For Use On Vehicles Less Than 2032 mm In Overall Width


3. Results:

This is to certify test units were subjected to requirements outlined in SAE J1849 (supported with SAE J575). The test results show the test units **PASSED** the necessary requirements outlined in SAE J1849.

4. Summary of Results:

The following summary references the test requirements outlined in SAE J1849 as reported in ETR-CL0054-01.

<u>SAE J1849 Test Requirement</u>	<u>Status</u>
Acoustical Tests	
5.1.2.5 Sound Pressure Level (SPL) Measurements	See
Appendix	
5.1.2.6 Signal Frequency Measurements	N/A
5.1.2.7 Signal Cycling Period Measurement	N/A
Mechanical Tests	
5.2 Vibration Test	Pass
5.3 Corrosion Test (Devices with EVS2 or EVS3 ID Code)	N/A
5.4 Dust Test (Devices with EVS2 or EVS3 ID Code)	N/A
5.5 Moisture Test (Devices with EVS2 or EVS3 ID Code)	N/A
Electromagnetic Tests	
5.6 Radiated Electromagnetic Immunity Test	Pass
5.7 Radiated Emissions Test	Pass
5.8 Conducted Emissions Test	Pass
Temperature/Durability Tests	
5.9 Durability Test	Pass
5.10.2.1 High Temperature Test (Devices with EVS1 or EVS2 ID Code)	N/A
5.10.2.2 High Temperature Test (Devices with EVS3 ID Code)	Pass
5.10.2.3 Low Temperature Test	Pass


 Test Engineering Lead
 18 October 2018



APPENDIX

All products listed below have been certified compliant per SAE J1849 section 5.1.2.5 with above stated product. Separate Emergency Siren Conformance - SAE J1849 certification is required for all products listed below.

5.1.2.5 Sound Pressure Level (SPL) Measurements	
SPEAKER MODELS	C3100
	C3500
	Z100
	Z100LPA
	PB100

