



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

APPLIED TECHNICAL SERVICES
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MECHANICAL

Valid To: February 28, 2027

Certificate Number: 3661.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following test on automotive, telecommunications, commercial, medical and aerospace components, assemblies and systems:

<u>Test:</u>	<u>Test Method(s)¹:</u>
Vibration (Sine, Random & Combined) ^{1,2} (10 to 3000) Hz 3” stroke 45,000 lbs. Force to 200 g’s	MIL-STD-164 A, (Method I); MIL-STD-202 E, F, G, (Methods 201, 203, 204, 214); MIL-STD-750 C, D, E, F, (Method 2046, 2056, 2057); MIL-STD-810 Base A, B, C, D, E, F, G, H, (Methods 514, 519, 526); MIL-STD-1344 A, (Through Notice 6) (Method 2005); MIL-STD-1540 B, C, D; MIL-STD-1576, (All); RTCA/DO-160 B, C, D, E, F, G, (Section 8); SAE/USCAR 24 (Initiator Requirements) June 2004; SAE/USCAR 28 (Initiator Requirements) June 2005; TSC-3000G
Vibration Shock ² (10 to 10,000) Hz 3” stroke 45,000 lbs. Force	MIL-STD-202 E, F, G, (Method 213); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 516); MIL-STD-1344 A (through Notice 6), (Method 2004); MIL-STD-1576, (All); RTCA/DO-160 B, C, D, E, F, G, (Section 7); SAE/USCAR 24 (Inflator Requirements) June 2004; SAE/USCAR 28 (Initiator Requirements) June 2005; TSC-3000G
Mechanical (Drop) Shock ² (6, 12 & up to 50) ft. drop Towers	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 516); MIL-STD-202 E, F, G, (Method 213); MIL-STD-1344 A (through Notice 6), (Method 2004); MIL-STD-1576 Base, (Method 3114); SAE/USCAR 24 (Inflator Requirements) June 2004; TSC-3000G

<u>Test:</u>	<u>Test Method(s)¹:</u>
Pyro Shock ² Live Pyro, Air Cannon, Beam (10 to 10,000) Hz	Mil-STD-810 (All); Mil-STD-1512 (All); MIL-STD-1576 (All); Customer Specifications
Tensile/Compression ² 20,000 lbs	MIL-STD-202 E, F, G, (Method 211) (Condition A); UL 514-D Section 5.3.7.1; TSC-3000G
Acceleration ² r = 34"; g's=110	MIL-STD-202 E, F, G, (Method 212); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 513); MIL-STD-1344 A (through Notice 6), (Method 2011); RTCA/DO-160 B, C, D, E, F, G, (Section 7); SAE/USCAR 28 (Initiator Requirements) June 2005
Push	IEC 60601-1
Drop	IEC 60601-1
Impact	IEC 60601-1
Temperature Altitude ² Up to 100,000 Feet (-72 to 150) °C	MIL-STD-202 E, F, G, (Method 105); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 500); RTCA/DO-160 B, C, D, E, F, G, (Section 4); SAE/USCAR 28 (Initiator Requirements) June 2005; ISO 14708-3; TSC-3000G
High Temperature ² 200 °C	MIL-STD-202 E, F, G, (Method 108); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 501); SAE/USCAR 24 (Inflator Requirements) June 2004; SAE/USCAR 28 (Initiator Requirements) June 2005; IEC 60601-1; TSC-3000G
Low Temperature ² To -176 °C	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 502); MIL-STD-1540 (All); IEC 60601-1-11; TSC-3000G
Temperature Shock ² (-176 to 200) °C	MIL-STD-202 E, F, G, (Method 107); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 503); SAE/USCAR 24 (Inflator Requirements) June 2004; SAE/USCAR 28 (Initiator Requirements) June 2005; TSC-3000G
Explosive Atmosphere ²	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 511); RTCA/DO-160 B, C, D, E, F, G, (Section 9); TSC-3000G
Temperature/Humidity ² (5 to 95) %RH	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 507); MIL-STD-202 E, F, G, (Method 103); MIL-STD-1344 A (through Notice 6), (Method 1002)

<u>Test:</u>	<u>Test Method(s)¹:</u>
Temperature/Humidity ² (5 to 95) %RH (continued)	MIL-STD-1576 (All); RTCA/DO-160 B, C, D, E, F, G, (Section 6); SAE/USCAR 24 (Inflator Requirements) June 2004; SAE/USCAR 28 (Initiator Requirements) June 2005; IEC 60601-1-11; TSC-3000G
Explosive/Rapid Decompression	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 500); RTCA/DO-160 B, C, D, E, F, G, (Section 4)
Positive Pressure (Over Pressure) ² Up to 30,000 psi	MIL-STD-1540 B, C, D, (Section 6)
Fluid Susceptibility	MIL-STD-810 F, G, H, (Method 504); MIL-STD-1344 A, Method 1016; RTCA/DO-160 B, C, D, E, F, G, (Section 11); TSC-3000G
Salt/SO ₂ Fog/Spray	ASTM B117-73, -94, -97, -02, -02, -07, -09, -11; MIL-STD-202 E, F, G, (Method 101); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 509); MIL-STD-1344 A (through Notice 6), (Method 1001); RTCA/DO-160 B, C, D, E, F, G, (Section 14); SAE/USCAR 24 (Inflator Requirements) June 2004; SAE/USCAR 28 (Initiator Requirements) June 2005; TSC-3000G
Rain	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 506); RTCA/DO-160 B, C, D, E, F, G, (Section 10); TSC-3000G
Freezing Rain	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 521); RTCA/DO-160 B, C, D, E, F, G, (Section 24); TSC-3000G
Combined Environments ² (Temperature, Humidity, Vibration)	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 520); RTCA/DO-160 B, C, D, E, F, G, (Section 4); SAE/USCAR 24 (Inflator Requirements) June 2004; SAE/USCAR 28 (Initiator Requirements) June 2005; TSC-3000G
Temperature Cycling ² (-176 to 200) °C	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 520); MIL-STD-1344 A (through Notice 6), (Method 1003); MIL-STD-1576, (All); RTCA/DO-160 B, C, D, E, F, G, (Section 5); TSC-3000G
Sand and Dust	MIL-STD-202 E, F, G, (Method 110); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 510); RTCA/DO-160 B, C, D, E, F, G, (Section 12);

<u>Test:</u>	<u>Test Method(s)¹:</u>
Sand and Dust (continued)	SAE J1211 (Section 4.5), Nov. 78 (dust only), SAE J1455 (Section 4.7), Aug. 94 (dust only); TSC-3000G
Ingress Protection	IEC 60529; IP 1-6; IPX 1-8
Failure Analysis	
Flammability Test (Vertical)	DO-160G, Section 26.6.2
Solar Radiation	MIL-STD-810G Method 505.6

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard test method, per Annex A, Part C of A2LA's *R101 - General Requirements: Accreditation of Conformity Assessment Bodies*.

²Also using customer supplied and industry specifications directly related to the test technologies and parameters listed above.



Accredited Laboratory

A2LA has accredited

APPLIED TECHNICAL SERVICES

Tempe, AZ

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 4th day of April 2025.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3661.01
Valid to February 28, 2027

For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.