



## ASUS MIL-STD 810H Test Report - B9403CVA

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Test Category	Test Method	MIL-STD-810H Test Parameters	Test Result
		Test Pressure: Equivalent to cabin altitude of 40,000ft	
Altitude Storage/	Method 500.6-Procedure I	Test Pressure: Equivalent to cabin altitude of 40.000/t Temperature: -20°C Duration: 12 hour Unit is non-operational during test. Test Pressure: Equivalent to cabin altitude of 15,000/t Temperature: 5°C and 40°C Duration: 12 hour (5°C) and 12 hour (40°C) Unit is operational during test. Duration: 3 day exposure (3 X.24 hr. cycles) Temperature: 32 - 49°C cycling temperature exposure Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry Unit is operational during test. Duration: 7 day exposure (7 X.24 hr. cycles) Temperature: 33 - 71°C cycling temperature exposure Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry Unit is non-operational during test. Duration: 3 day exposure (3 X.24 hr. cycles) Temperature: 30 - 43°C cycling temperature exposure Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry Unit is non-operational during test. Duration: 3 day exposure (3 X.24 hr. cycles) Temperature: 30 - 43°C cycling temperature exposure Table 501.7-III-Procedure. High temperature cycles, climatic category A2 - Basic Hot Humidity: 14 - 44% Unit is operational during test. Duration: 7 day exposure (7 X.24 hr. cycles) Temperature: -2033°C Low temperature: -2033°C Low temperature cycles, Table IX. Basic climatic_C1 Unit is non-operational during test. Duration: 7 day exposure (7 X.24 hr. cycles) Temperature: -2133°C Low temperature cycles, Table IX. Basic climatic_C1 Unit is non-operational during test. Duration: 3 day exposure (7 X.24 hr. cycles) Temperature: -2133°C Low temperature cycles, Table IX. Basic climatic_C1 Unit is operational during test. Duration: 7 day exposure (7 X.24 hr. cycles) Temperature: -2143°C Low temperature cycles, Table IX. Basic climatic_C2 Wind speed less than 5m/s(11mph) Unit is non-operational during test. Duration: 3 day exposure (3 X.24 hr. cycles)	Pass
Air Transport		Duration:12 hour	
Altitude	Method 500.6-Procedure II		Pass
Operation/Air Carriage			
High Temperature	Method 501.7-Procedure II (A1)		Pass
Operational (Hot Dry)			
	Method 501.7-Procedure I (A1)		
High Temperature Storage and Transit (Hot Dry)			Pass
Storage and mansit (not bry)			
	Method 501.7-Procedure II (A2)		
High Temperature			Dace
Operational (Basic Hot)			Pass
High Temperature	Method 501.7-Procedure I (A2)		Pass
Storage and Transit (Basic Hot)			L922
		-	
			Pass
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Low Temperature Storage and Transit (Basic climatic)	Method 502.7- Procedure I (C1)		
		· · · · · · · · · · · · · · · · · · ·	
Low Temperature			
Operational (Basic climatic)	Method 502.7- Procedure II (C1)		Pass
Low Temperature	Method 502.7- Procedure I (C2)		Pass
Storage and Transit (Cold climatic)			
		Temperature: -37~ -46℃	
Low Temperature	Method 502.7- Procedure II (C2)	Low temperature cycles, Table XI. Cold climatic_C2	Pass
Operational (Cold climatic)	· · ·	Wind speed less than 5m/s(11mph)	
		Unit is operational during test.	
		Duration: 1 Hour / Three cycles	
Temperature Shock	Method 503.7- Procedure I-C	Duration: 1 Hour / Three cycles Temperature: -51 to 71 °C	Pass
Temperature Shock	Method 503.7- Procedure I-C	-	Pass
Temperature Shock	Method 503.7- Procedure I-C	Temperature: -51 to 71 °C	Pass
Temperature Shock Solar Radiation (Sunshine)	Method 503.7- Procedure I-C Method 505.7- Procedure I	Temperature: -51 to 71 °C Unit is non-operational during test.	Pass
		Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 – 1120 W/m2 at (280 – 3000) nm, 3 cycles	
		Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 – 1120 W/m2 at (280 – 3000) nm, 3 cycles Temperature: 32℃ – 49℃	
Solar Radiation (Sunshine)	Method 505.7- Procedure I	Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 – 1120 W/m2 at (280 – 3000) nm, 3 cycles Temperature: 32°C – 49°C Unit is non-operational during test.	Pass
		Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 – 1120 W/m2 at (280 – 3000) nm, 3 cycles Temperature: 32°C – 49°C Unit is non-operational during test. Duration:10 Days	
Solar Radiation (Sunshine)	Method 505.7- Procedure I	Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 ~ 1120 W/m2 at (280 ~ 3000) nm, 3 cycles Temperature: 32°C ~ 49°C Unit is non-operational during test. Duration:10 Days Temperature: 30°C and 60°C	Pass
Solar Radiation (Sunshine) Humidity Aggravated Cycle	Method 505.7- Procedure I Method 507.6- Procedure II	Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 - 1120 W/m2 at (280 - 3000) nm, 3 cycles Temperature: 32°C - 49°C Unit is non-operational during test. Duration:10 Days Temperature: 30°C and 60°C Humidity: 95% RH, constant	Pass
Solar Radiation (Sunshine)	Method 505.7- Procedure I	Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 – 1120 W/m2 at (280 – 3000) nm, 3 cycles Temperature: 32 °C – 49 °C Unit is non-operational during test. Duration:10 Days Temperature: 30 °C and 60 °C Humidity: 95% RH, constant Unit is non-operational during test. 5 fungus, 30 °C, 95% RH	Pass
Solar Radiation (Sunshine) Humidity Aggravated Cycle	Method 505.7- Procedure I Method 507.6- Procedure II	Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 - 1120 W/m2 at (280 - 3000) nm, 3 cycles Temperature: 32 °C - 49 °C Unit is non-operational during test. Duration:10 Days Temperature: 30 °C and 60 °C Humidity: 95% RH, constant Unit is non-operational during test. 5 fungus, 30 °C, 95% RH 28 days, Non-Operating	Pass Pass
Solar Radiation (Sunshine) Humidity Aggravated Cycle	Method 505.7- Procedure I Method 507.6- Procedure II	Temperature: -51 to 71 °C Unit is non-operational during test. Cycle A1. 0 – 1120 W/m2 at (280 – 3000) nm, 3 cycles Temperature: 32 °C – 49 °C Unit is non-operational during test. Duration:10 Days Temperature: 30 °C and 60 °C Humidity: 95% RH, constant Unit is non-operational during test. 5 fungus, 30 °C, 95% RH	Pass Pass

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		Particle density:1.1 +/- 0.3g/m^3	Deee
	Method 510.7- Procedure II	Air velocity:28m/s	Pass
		Operating temperature of 60°C	Dese
Explosive Atmosphere	Method 511.7- Procedure I	Operation in an explosive atmosphere.	Pass
	Method 514.8- Procedure I (Table514.8C-I)	Frequency 5-500Hz, Vertical rms = 1.08 g	2
			Pass
		Test Time: 60 minutes per axis (US highway truck vibration exposure)	
	Method 514.8- Procedure I	Frequency 5-500Hz, Vertical rms = 3.98 g	Pass
Vibration	(Table514.8C-IV)	Transverse rms = 1.22g, Longitudinal rms = 2.52g	
		Test Time: 32 minutes per axis	
	Method 514.8- Procedure I (Table514.8C-VII)	Frequency 5-500Hz, Vertical rms = 2.24 g	
		Transverse rms = 1.45g, Longitudinal rms = 1.32g	Pass
		Test Time: 40 minutes per axis	
	Method 516.8- Procedure I	Functional Shock	Pass
		Operational 3 shocks/axis/direction for a total of 18 shocks; 40 Gs peak, 11 ms	1 055
	Method 516.8- Procedure II	Transportation shock- On road (5000Km)	
		Amplitude : 5.1 ~ 7.6 G-Pk , Number of Shocks: 3 ~ 42 times	
		Pulse Duration: 11ms	Pass
		Terminal Peak Sawtooth	
		Non-OP/ Package	
	Method 516.8- Procedure III	Fragility	
Shock		Non-operational 3 shocks/axis/direction for a total of 18 shocks	Pass
		30~50 Gs peak, Trapezoidal pulse(772cm/s, 10G/each stage)	
	Method 516.8- Procedure IV	Transit Drop (Package)/122cm /26 Drop	Pass
		.8C-1)   Iransverse rms = 0.21g, Longitudinal rms = 0.76g     Test Time: 60 minutes per axis (US highway truck vibration exposure)     Procedure I     BC-IV)     Transverse rms = 1.22g, Longitudinal rms = 2.52g     BC-IV)     Transverse rms = 1.22g, Longitudinal rms = 2.52g     BC-IV)     Transverse rms = 1.22g, Longitudinal rms = 2.52g     BC-IV)     Test Time: 32 minutes per axis     Procedure I     BC-VII)     Transverse rms = 1.45g, Longitudinal rms = 1.32g     Procedure I     BC-VII)     Test Time: 40 minutes per axis     Procedure I     Creational 3 shocks/axis/direction for a total of 18 shocks: 40 Gs peak, 11 ms     Procedure I     Operational 3 shocks/axis/direction for a total of 18 shocks: 3 - 42 times     Procedure II     Procedure III     Non-operational 3 shocks/axis/direction for a total of 18 shocks     30-50 Gs peak, Trapezoidal pulse(772cm/s, 10G/each stage)     rocedure IV   Transit Drop (Package)/122cm /26 Drop <td></td>	
	Method 516.8- Procedure V		Pass
		75 Gs peak, 6 ms/Terminal Peak Sawtooth/unpackage nop	
	Method 516.8- Procedure VI	Bench Handling	Pass
		(Drop Height : 100 mm)	
		Unit is operational during test.	
	Method 524.1- Procedure III	Rapid Temperature Change	
<b> </b> .		Temperature: (30°C and -10°C)	Deres
Freeze/Thaw		Humidity: 95% RH	Pass
		Dwell: 1Hour; Three cycles	
Mechanical Vibrations of Shipboard	Method 528.1- Procedure1 (Type 1)	Environmental Vibration	5
Equipment		4~33 Hz/ 2Hours	Pass

<sup>\*</sup>The testing regime includes the requirements of military-grade standards, and varies depending on device. MIL-STD-810 testing is conducted on selected ASUS products only. Note that the MIL-STD-810 testing helps to ensure the quality of ASUS products but does not indicate a particular fitness for military use. The test is performed under laboratory conditions. Any damage caused by attempts to replicate these test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional coverage is available with ASUS Premium Care.

