



## ASUS MIL-STD 810H Test Report - B7402FBA

Test Category	Test Method	MIL-STD-810H Test Parameters	Test Result
		Test Pressure: Equivalent to cabin altitude of 40,000ft	
Altitude Storage/ Air Transport	Method 500.6-Procedure I	Temperature: -20℃	Pass
		Duration:12 hour	1 455
		Unit is non-operational during test.	
	Method 500.6-Procedure II	Test Pressure: Equivalent to cabin altitude of 15,000ft	
Altitude		Temperature: 5 ℃ and 40 ℃	Pass
Operation/Air Carriage		Duration: 12 hour (5 ℃) and 12 hour (40 ℃)	1 435
		Unit is operational during test.	
	Method 501.7-Procedure II (A1)	Duration: 3 day exposure (3 X 24 hr. cycles)	
High Temperature		Temperature: 32−49 °C cycling temperature exposure	Pass
Operational (Hot Dry)		Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry	1 435
		Unit is operational during test.	
High Temperature	Method 501.7-Procedure I (A1)	Duration: 7 day exposure (7 X 24 hr. cycles)	
		Temperature: 33−71 °C cycling temperature exposure	Pass
Storage and Transit (Hot Dry)		Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry	F 055
		Unit is non-operational during test.	
11.1 T.	Method 501.7-Procedure II (A2)	Duration: 3 day exposure (3 X 24 hr. cycles)	
		Temperature: 30~43 ℃ cycling temperature exposure	
High Temperature Operational (Basic Hot)		Table 501.7-II-Procedure. High temperature cycles, climatic category A2 - Basic Hot	Pass
Operational (Basic Hot)		Humidity: 14~44%	
		Unit is operational during test.	
	Method 501.7-Procedure I (A2)	Duration: 7 day exposure (7 X 24 hr. cycles)	
		Temperature: 30~63 ℃ cycling temperature exposure	Pass
High Temperature Storage and Transit (Basic Hot)		Table 501.7-II-Procedure. High temperature cycles, climatic category A2 - Basic Hot	
storage and transit (basic hot)		Humidity: 5~44%	
		Unit is non-operational during test.	
Low Temperature Storage and Transit (Basic climatic)	Method 502.7- Procedure I (C1)	Duration: 7 day exposure (7 X 24 hr. cycles)	Pass
		Temperature: -25~ -33℃	
		Low temperature cycles, Table IX. Basic climatic_C1	
		Unit is non-operational during test.	
Low Temperature Operational (Basic climatic)	Method 502.7- Procedure II (C1)	Duration: 3 day exposure (3 X 24 hr. cycles)	
		Temperature: -21~ - 32℃	
		Low temperature cycles,Table IX. Basic climatic_C1	Pass
		Unit is operational during test.	
		Duration: 7 day exposure (7 X 24 hr. cycles)	
	Method 502.7- Procedure I (C2)	Temperature: -37~ -46℃	
Low Temperature		Low temperature cycles, Table XI. Cold climatic_C2	Pass
Storage and Transit (Cold climatic)		Wind speed less than 5m/s(11mph)	1 400
		Unit is non-operational during test.	
		Duration: 3 day exposure (3 X 24 hr. cycles)	
	Method 502.7- Procedure II (C2)	Temperature: -3746℃	
Low Temperature		Low temperature cycles, Table XI. Cold climatic_C2	Pass
Operational (Cold climatic)		Wind speed less than 5m/s(11mph)	1 433
		Unit is operational during test.	
		Duration: 1 Hour / Three cycles	
Temperature Shock	Method 503.7- Procedure I-C	Temperature: -51 to 71°C	Pass
			r ass
		Unit is non-operational during test.	
Solar Radiation (Sunshine)	Method 505.7- Procedure I	Cycle A1. 0 – 1120 W/m2 at (280 – 3000) nm, 3 cycles	Dace
		Temperature: 32℃ – 49℃	Pass
		Unit is non-operational during test.	
	Method 507.6- Procedure II	Duration:10 Days	
Humidity Aggravated Cycle		Temperature: 30℃ and 60℃	Pass
····		Humidity: 95% RH, constant	
		Unit is non-operational during test.	
Fungus	Mall - 1500.0	5 fungus, 30 °C, 95%RH	<b>D</b>
	Method 508.8	28 days, Non-Operating	Pass
	Method 510.7- Procedure I	Particle density:10 +/- 7 g/m^3	Pass
		Air velocity:300 to 1750 ft/min	L922
		Operating temperature of 60°C	

Jana ana Dast		Particle density:1.1 +/- 0.3g/m^3	
	Method 510.7- Procedure II	Air velocity:28m/s	Pass
		Operating temperature of 60°C	
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	
		Transverse rms = 0.21g, Longitudinal rms = 0.76g	Pass
		Test Time: 60 minutes per axis (US highway truck vibration exposure)	
	Method 514.8- Procedure I (Table514.8C-IV)	Frequency 5-500Hz, Vertical rms = 3.98 g	Pass
Vibration		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	Pass
		Transverse rms = 1.45g, Longitudinal rms = 1.32g	
		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	
		Transportation shock- On road (5000Km)	
	Method 516.8- Procedure II	Amplitude : 5.1~ 7.6 G-Pk , Number of Shocks: 3 ~ 42 times	Pass
		Pulse Duration: 11ms	
		Terminal Peak Sawtooth	
		Non-OP/ Package	
	Method 516.8- Procedure III	Fragility	Pass
Shock		Non-operational 3 shocks/axis/direction for a total of 18 shocks	
		30~50 Gs peak, Trapezoidal pulse(772cm/s, 10G/each stage)	
	Method 516.8- Procedure IV	Transit Drop (Package)/122cm /26 Drop	Pass
		Crash Hazard Shock Test	
	Method 516.8- Procedure V	2 shocks/axis/direction for a total of 12 shocks	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.	
Freeze/Thaw	Method 524.1- Procedure III	Rapid Temperature Change	Pass
		Temperature: (30°C and -10°C)	
		Humidity: 95% RH	L922
		Dwell: 1Hour; Three cycles	
Mechanical Vibrations of Shipboard Equipment	Method 528.1- Procedure1 (Type 1)	Environmental Vibration	Pass
		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.

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