



Testing Summary

Dell Laptop Docking Station and Cradle

(7160-0882, 7160-0883)

Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration – Operational Test date: October, 2021	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure 514.6C-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously (3 hours total). <ul style="list-style-type: none"> • Unit is unlocked • Vertical profile was used in all axes • Performed on all three configurations of computers <ul style="list-style-type: none"> ○ Latitude 12 Rugged Extreme ○ Latitude 14 Rugged ○ Latitude 14 Rugged Extreme
Vibration – Operational RF Connection Test date: October, 2021	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure 514.6C-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously (3 hours total). <ul style="list-style-type: none"> • Unit is unlocked • Test is performed simultaneously with operational test. • Test is monitored to record any breaks in RF connectivity during vibration. • Performed on all three configurations of computers <ul style="list-style-type: none"> ○ Latitude 12 Rugged Extreme ○ Latitude 14 Rugged ○ Latitude 14 Rugged Extreme
Vibration – Non-Operational (Minimum Integrity) Test date: October, 2021	MIL-STD-810G, Method 514.6, Category 24, per Figure 514.6E-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously. <ul style="list-style-type: none"> • Unit is unlocked • Performed on the Dell 14” Rugged Extreme
Functional Shock - Non-Operational Test date: October, 2021	MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses <ul style="list-style-type: none"> • 20G, 11ms half sine • Unit is unlocked
Cycle Testing – Non-Operational Test date: October, 2021	30,000 cycles of the docking connector, latching and locking mechanisms

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Electrostatic Discharge – Operational Test date: May, 2017	ISO 10605, Section 8, Table C.2, Category 2 – Direct Air Discharge
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Summary of Tests Performed at Independent Facility

Test Description	Test Parameters
Humidity Test date: May, 2017	MIL-STD 810G, Method 507.5, Procedure II, Aggravated, Table 507.5-IX <ul style="list-style-type: none"> Ten 24-hour cycles, temperature varied from 30°C to 60°C to 30°C at constant 95% relative humidity.
Thermal Shock Test date: May, 2017	MIL-STD 810G, Method 503.5, Procedure I-C <ul style="list-style-type: none"> Three cycles from 85°C to -40°C to 85°C
Low Temperature: Operational Test date: May, 2017	MIL-STD 810G, Method 502.5, Procedure II <ul style="list-style-type: none"> -29°C Operating, 2-hour duration
Low Temperature: Storage Test date: May, 2017	MIL-STD 810G, Method 502.5, Procedure I <ul style="list-style-type: none"> -51°C Non-Operating, 4-hour duration
High Temperature: Operational Test date: May, 2017	MIL-STD 810G, Method 501.5, Procedure II, Table 501.5-II, Induced Conditions <ul style="list-style-type: none"> Three 24-hour cycles, temperature varied from 30°C to 63°C to 30°C
High Temperature: Storage Test date: May, 2017	MIL-STD 810G, Method 502.5, Procedure I, Table 502.5-III, Induced Conditions <ul style="list-style-type: none"> Seven 24-hour cycles, temperature varied from 33°C to 71°C to 33°C
Shock – Crash Hazard Test date: October, 2021	SAE J1455, Section 4.11.3.5, per Figure 13 <ul style="list-style-type: none"> Unit is unlocked
EMC Testing Test date: March, 2017	EN 50498:2010
EMC Testing Test date: March, 2017	EN 55032:2015 <ul style="list-style-type: none"> CISPR 22 – Class A FCC Part 15, Subpart B – Class A

Other Certifications

Description
EN 50581:2012 RoHS2 Directive 2011/65/EU

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