Demo Test plan

Test plan for product:
Hard disk

Document code:
5MIYGZYAGDUDJYPFYUQH

Document internal code: DEMO01
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1 Product details

Name:	Hard disk
Description:	Product used for testing
Height:	90 (mm)
Width:	100 (mm)
Depth:	180 (mm)
Weight:	0.5 (kg)

2 Standards summary

MIL-STD-461G

CE101 - Conducted emissions, audio frequency currents, power leads

CE102 - Conducted emissions, radio frequency potential, power leads

CE106 - Conducted emissions, antenna port

CS101 - Conducted susceptibility, power leads

CS103 - Conducted susceptibility, antenna port, intermodulation

CS104 - Conducted susceptibility, antenna port, rejection of undesired signals

CS105 - Conducted susceptibility, antenna port, cross modulation

CS109 - Conducted susceptibility, structure current

CS114 - Conducted susceptibility, bulk cable injection

CS115 - Conducted susceptibility, bulk cable injection, impulse excitation

CS116 - Conducted susceptibility, damped sinusoidal transients, cables and power leads

CS117 - Conducted susceptibility, lightning induced transients, cables and power leads

CS118 - Personnel borne electrostatic discharge

RE101 - Radiated emissions, magnetic field

RE102 - Radiated emissions, electric field

RE103 - Radiated emissions, antenna spurious and harmonic outputs

RS101 - Radiated susceptibility, magnetic field

RS103 - Radiated susceptibility, electric field

RS105 - Radiated susceptibility, transient electromagnetic field

3 Testing details

The product produce risk for safety during the test:	
The functional test needs to be done manually outside of work time (9:00-13:00 14:00-17:00):	
Time Required for functional Test is less than:	10 (min)
Time required to install functional test setup is less than:	30 (min)
Weight of test instrumentation needed for test setup is less than:	10 (Kg)
Size of test instrumentation needed for test setup width is less than:	100 (cm)
Size of test instrumentation needed for test setup length is less than:	100 (cm)
Size of test instrumentation needed for test setup height is less than:	100 (cm)
Number of functional mode during test:	1
Special Requirement during Test:	

4 Standards List

4.1 MIL-STD-461G

4.1.1 CE101

Conducted emissions, audio frequency currents, power leads

Method Parameters

Test on:	Power line 1
Voltage:	5 (V)
Current:	2 (A)
Type:	DC
Limit:	Limit for surface ships and submarine applications, DC
Modes of working:	1

4.1.2 CE102

Conducted emissions, radio frequency potential, power leads

Method Parameters

Test on:	Power line 1
Voltage:	5 (V)
Current:	2 (A)
Type:	DC
Modes of working:	1

4.1.3 CE106

Conducted emissions, antenna port

Method Parameters

Test on:	Antenna Port 1
Peak Power on antenna:	1 (kW)
Start Operating Frequency:	0.01 (MHz)
Stop Operating Frequency:	40000 (MHz)
Modes of working:	1

4.1.4 CS101

Conducted susceptibility, power leads

Method Parameters

Test on:	Power line 1
Voltage:	5 (V)
Current:	2 (A)
Type:	DC
Limit:	Voltage limit for all applications curve 1
Modes of working:	1
DWell Time:	3 (s)

4.1.5 CS103

Conducted susceptibility, antenna port, intermodulation

Method Parameters

Test on:	Antenna Port 1
Peak Power on antenna:	1 (kW)
Start Operating Frequency:	0.01 (MHz)
Stop Operating Frequency:	40000 (MHz)
Modes of working:	1

4.1.6 CS104

Conducted susceptibility, antenna port, rejection of undesired signals

Method Parameters

Test on:	Antenna Port 1
Peak Power on antenna:	1 (kW)
Start Operating Frequency:	0.01 (MHz)
Stop Operating Frequency:	40000 (MHz)
Modes of working:	1

4.1.7 CS105

Conducted susceptibility, antenna port, cross modulation

Method Parameters

Test on:	Antenna Port 1
Peak Power on antenna:	1 (kW)
Start Operating Frequency:	0.01 (MHz)
Stop Operating Frequency:	40000 (MHz)
Modes of working:	1

4.1.8 CS109

Conducted susceptibility, structure current

Method Parameters

Modes of working:	1
DWell Time:	3 (s)

4.1.9 CS114

Conducted susceptibility, bulk cable injection

Method Parameters

Number of cables:	1
Modes of working:	1
DWell Time:	3 (s)
Curve From 4KHz to 1 MHz:	None
Curve From 10kHz to 2 MHz:	None
Curve From 2MHz to 30 MHz:	None
Curve From 30MHz to 200 MHz:	None

4.1.10 CS115

Conducted susceptibility, bulk cable injection, impulse excitation

Method Parameters

Number of cables:	1
Modes of working:	1

4.1.11 CS116

Conducted susceptibility, damped sinusoidal transients, cables and power leads

Method Parameters

Number of cables:	1
Modes of working:	1

4.1.12 CS117

Conducted susceptibility, lightning induced transients, cables and power leads

Method Parameters

Type of Installation:	Internal
Number of cables:	1
Modes of working:	1
Equipment installations routed in areas with composite skin/structure:	No
Equipment installations that utilize short, low impedance cable bundle installations:	No
Require multiple stroke:	No
Require multiple burst:	No

4.1.13 CS118

Personnel borne electrostatic discharge

Method Parameters

Modes of working:	1
Number of points to test:	10

4.1.14 RE101

Radiated emissions, magnetic field

Method Parameters

Modes of working:	1
Limit:	Limit for all Army applications

4.1.15 RE102

Radiated emissions, electric field

Method Parameters

Modes of working:	1
Number of positions of antenna:	1
Limit:	Limit for surface ship applications below deck

4.1.16 RE103

Radiated emissions, antenna spurious and harmonic outputs

Method Parameters

Test on:	Antenna Port 1
Peak Power on antenna:	1 (kW)
Start Operating Frequency:	0.01 (MHz)
Stop Operating Frequency:	40000 (MHz)
Start Frequency of Test:	0.01 (MHz)
Modes of working:	1

4.1.17 RS101

Radiated susceptibility, magnetic field

Method Parameters

Modes of working:	1
DWell Time:	3 (s)
Limit:	Limit for all Navy applications

4.1.18 RS103

Radiated susceptibility, electric field

Method Parameters

Modes of working:	1
DWell Time:	3 (s)
Number of antenna positions:	1
Level 2 MHz to 30 MHz:	50 (V/m)
Level 30 MHz to 1 GHz:	50 (V/m)
Level 1 GHz to 18 GHz:	50 (V/m)
Level 18 GHz to 40 GHz:	0 (V/m)

4.1.19 RS105

Radiated susceptibility, transient electromagnetic field

Method Parameters

Modes of working:	1

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