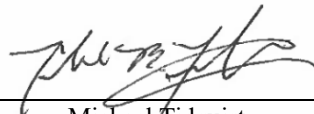


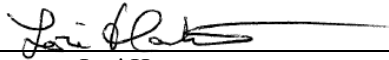
Element Materials Technology Denver-Longmont A.K.A. NTS Labs, LLC

Test Report for Electromagnetic Interference (EMI) Testing of the VXScan

Prepared For

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Revision History

Rev.	Description	Issue Date
0	Initial Release	04/15/2026
1	Corrected Test Specification per customer request	05/13/2026
2	Removed the customer's image from a photo & updated mode of operation	05/26/2026
3	Replaced Voltage Dips data sheets per customer request	07/23/2026

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1.0 Introduction

This document presents the test procedures used and the results obtained during the performance of an Electromagnetic Interference (EMI) test program at Element Materials Technology Denver-Longmont (hereafter referred to as “Element”). The test program was conducted to assess the ability of the specified Equipment Under Test (EUT) to successfully satisfy the requirements defined in the test specification.

2.0 References

The following references listed below form a part of this document to the extent specified herein.

- Test Specification: See Table 5.0-1
- SLI Compliance Purchase Order 20250917-01 dated 09/17/2025
- Element Quotation OP0679041 dated 09/11/2025
- ISO/IEC 17025:2017(E) *General Requirements for the Competence of Testing and Calibration Laboratories*, dated 11/2017

3.0 Product Selection and Description

SLI Compliance selected and provided the following test sample(s) to be used as the Equipment Under Test.

Table 3.0-1: Product Identification – Equipment Under Test (EUT)

Item	Qty.	Name/Description	Part Number	Serial Number
1	1	VxScan	V4.0.5	SC-15-003

3.1 Security Classification

Non-classified

4.0 General Test Requirements

4.1 Test Equipment

The instrumentation used in the performance of these tests is periodically calibrated and standardized within manufacturer's rated accuracies and are traceable to the National Institute of Standards and Technology. The calibration procedures and practices are in accordance with ISO 17025:2017. Certification of calibration is on file subject to inspection by authorized personnel.

4.2 Measurement Uncertainties

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below were calculated using the approach described in CISPR 16-4-2:2003 using a coverage factor of $k=2$, which gives a level of confidence of approximately 95%. The levels were found to be below levels of CISPR and therefore no adjustment of the data for measurement uncertainty is required.

Table 4.2-1: Measurement Uncertainties (Immunity)

Measurement Type	Measurement Unit	Frequency Range	Expanded Uncertainty
Radiated Immunity	V/m	80MHz - 10GHz	.-26.3% to 29.97%
ESD	KV	NA	./+/- 8.6%
Fast Transients	Voltage	NA	./+/- 5.98%
	Time	NA	./+/- 8.6%
Surge	Voltage	NA	./+/- 4.9%
Conducted Immunity (CDN)	Voltage	NA	.-12.6% to 13.3%
Conducted Immunity (BCI)	Voltage	NA	.-13.5% to 15.3%
Voltage Dips / Interrupts	Voltage	NA	./+/- 2.3%
	Time	NA	./+/- 0.08 ms
Magnetic Immunity	Amps	NA	./+/- 0.8%
Pulsed Magnetic Immunity	Amps	NA	./+/- 9.9%

5.0 Test Description and Results

Table 5.0-1: Summary of Test Information & Results

Section	Test	Specification	Test Facility	Test Date	Part #	Serial #	Test Result
5.1	Radiated RF Immunity	IEC/EN 61000-4-3: 2020	Longmont	04/06/2026	V4.0.5	SC-15-003	Passed
5.2	Electrical Fast Transient / Burst	IEC 61000-4-4: 2012	Longmont	04/09/2026	V4.0.5	SC-15-003	Passed
5.3	Surge Immunity	IEC 61000-4-5: 2014, A1: 2017	Longmont	04/06/2026 - 04/08/2026	V4.0.5	SC-15-003	Passed
5.4	Voltage Dips and Interruptions	IEC 61000-4-11: 2014, A1: 2017	Longmont	04/09/2026	V4.0.5	SC-15-003	Passed
5.5	Conducted RF Immunity	IEC 61000-4-6: 2013	Longmont	04/09/2026	V4.0.5	SC-15-003	Passed
5.6	Electrostatic Discharge	IEC 61000-4-2: 2008	Longmont	04/10/2026	V4.0.5	SC-15-003	Passed

The decision rule for Test Results was based on the Test Specification used for testing.

5.1 Radiated RF Immunity

5.1.1 Test Procedure

The EUT was tested in accordance with IEC/EN 61000-4-3.

5.1.2 Test Result

The EUT passed the defined requirements.

5.1.3 Test Datasheets

Element Materials Technology				
Radiated RF Immunity per IEC/EN 61000-4-3				
Standard Referenced: IEC/EN 61000-4-3		Date: 4/6/2026		
Temperature: 25°C	Humidity: 15%	Pressure: 641 mmHG		
Input Voltage: 120Vac/60Hz				
Configuration of Unit: Exercise Full Functionality with peripherals attached				
Test Engineer: Mike Tidquist				
Date	Time	Log Entries	Initials	Result
Tile Version - V1-2				
4/6/26	1000-1030	Pretest verification completed	MT	Pass
4/6/26	1030-1530	Radiated RF Immunity - IEC 61000-4-3, Per Latest Version and test protocol. 10V/m, 80 - 1000 MHz, 1% Step, 80% AM, 1kHz sine, 3s dwell 120 VAC / 60 Hz	MT	Pass

Element Materials Technology											
Radiated RF Immunity per IEC/EN 61000-4-3											
Standard											
Referenced: IEC/EN 61000-4-3						Date: 4/6/2026					
Temperature: 25°C				Humidity: 15%		Pressure: 641 mmHG					
Input Voltage: 120Vac/60Hz											
Configuration of											
Unit: Exercise Full Functionality with peripherals attached											
Test Engineer: Mike Tidquist											
Frequency	Modulation				Step Size	Field	Polarity	Dwell	Comments	Criteria Met	Pass / Fail
(MHz)	Type	%	Freq	Form	(%)	(V/m)	(V or H)	(sec)			
80 - 1000	AM	80	1kHz	Sine	1	10	V	3	Front	A	Pass
80 - 1000	AM	80	1kHz	Sine	1	10	H	3		A	Pass
80 - 1000	AM	80	1kHz	Sine	1	10	V	3	Right	A	Pass
80 - 1000	AM	80	1kHz	Sine	1	10	H	3		A	Pass
80 - 1000	AM	80	1kHz	Sine	1	10	V	3	Back	A	Pass
80 - 1000	AM	80	1kHz	Sine	1	10	H	3		A	Pass
80 - 1000	AM	80	1kHz	Sine	1	10	V	3	Left	A	Pass
80 - 1000	AM	80	1kHz	Sine	1	10	H	3		A	Pass

5.1.4 Test Photographs



Radiated Immunity Front



Radiated Immunity Right



Radiated Immunity Back



Radiated Immunity Left

5.1.5 Test Equipment List

Table 5.1-1: Radiated RF Immunity Test Equipment List

Asset Number	Asset Name	Manufacturer	Model	Calibrated	Due
US58-A059916	Chamber, Semi Anechoic	NTS	GP0	NCR	NCR
US58-A062551	Tile Key	ETS-Lindgren	C47213	NCR	NCR
US58-A070299	Attenuator (Coaxial)	Narda	766-20	NCR	NCR
US58-A059646	Meter (Digital Multimeter)	Hewlett Packard	3438A	NCR	NCR
US58-A078486	Meter (Data Logger)	Extech Instruments	42270	09/15/2025	09/30/2026
US58-A070467	Meter (Power)	Agilent Technologies	E4418B	07/28/2025	07/28/2026
US58-A059805	Antenna (Log Periodic)	ETS-Lindgren	3142B	NCR	NCR
US58-A059721	Antenna (Broadband)	EMCO	3115	NCR	NCR
US58-A070506	Sensor (Power)	Hewlett Packard	E4421A	08/19/2025	08/19/2026
US58-A059710	Amplifier (Pre/RF/Low Noise)	Ophir RF	5127F	NCR	NCR
US58-A059457	Coupler (Bi-Directional)	Werlatone	C3908-10	NCR	NCR
US58-A059707	Amplifier (Traveling Wave Tube)	Amplifier Research	200T1G3	NCR	NCR
US58-A070351	Coupler (Bi-Directional)	Narda	3022	NCR	NCR
US58-A084405	Cable (Test)	Fairview Microwave	GP0 RF N-Type	NCR	NCR
US58-A078459	Cable - RF	Unknown	TrueBlue	NCR	NCR
US58-A076935	Cable (Test)	Unknown	RF Coax Cable	NCR	NCR
US58-A059425	Power Supply (AC)	Pacific Power Source	3060MS/M93235	NCR	NCR
US58-A059797	Generator (Signal)	Wiltron	68369B	11/20/2025	11/30/2026

Calibration Abbreviations

CAL: Calibration

NCR: No Calibration Required

5.2 Electrical Fast Transient / Burst

5.2.1 Test Procedure

The EUT was tested in accordance with IEC 61000-4-4 and test protocol Mains: +/- 2kV.

5.2.2 Test Result

The EUT passed the defined requirements.

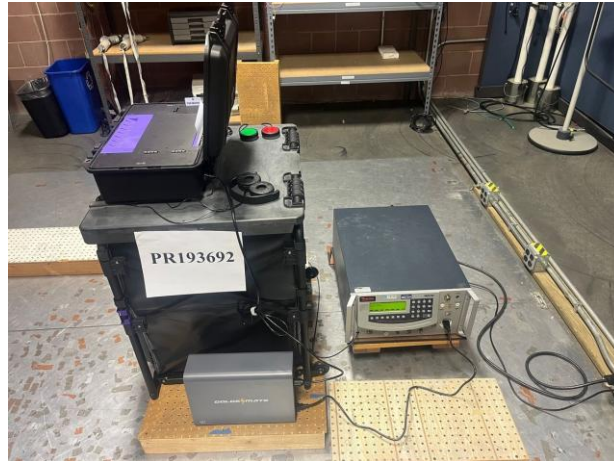
5.2.3 Test Datasheets

Element Materials Technology				
Electrical Fast Transient/Burst per IEC / EN 61000-4-4				
Standard Referenced: EN 61000-4-4		Date: 4/9/2026		
Temperature: 18.9 °C	Humidity: 49%	Pressure: 1012 mb		
Input Voltage: 230V, 50Hz				
Configuration of Unit: Exercise Full Functionality with peripherals attached				
Test Engineer: Eugene DeVito / Mike Tidquist				
Date	Time	Log Entries	Initials	Result
4/9/26	0800	Setup for EFT Testing	EDD	NA
	0815	Setup Complete	EDD	NA
	0816	Start EFT Run	EDD	NA
	0840	EFT passed	EDD	Pass

Element Materials Technology				
Electrical Fast Transient/Burst per IEC / EN 61000-4-4				
Standard Referenced: EN 61000-4-4		Date: 4/9/2026		
Temperature: 18.9 °C	Humidity: 49%	Pressure: 1012 mb		
Input Voltage: 230V, 50Hz		Capacitive Coupling Clamp Verification NA		
Configuration of Unit: Exercise Full Functionality with peripherals attached				
Test Engineer: Eugene DeVito / Mike Tidquist				

Voltage (kV)	Polarity +/-	Time (sec)	Injection Type	L1	L2	L3	N	PE	Rep Freq.	Comments	Criteria Met	Pass/Fail
2.0	±	60	CDN	X					5kHz	AC	Y	P
2.0	±	60	CDN		X				5kHz	AC	Y	P
2.0	±	60	CDN					X	5kHz	AC	Y	P
2.0	±	60	CDN	X	X			X	5kHz	AC	Y	P

5.2.4 Test Photographs



EFT Setup Photo

5.2.5 Test Equipment List

Table 5.2-1: Electrical Fast Transient / Burst Test Equipment List

Asset Number	Asset Name	Manufacturer	Model	Calibrated	Due
US58-A078487	Meter (Data Logger)	Extech Instruments	42270	09/15/2025	09/30/2026
US58-A059765	Meter (Digital Multimeter)	Fluke	87 V	05/13/2024	05/28/2026
US58-A059668	Oscilloscope (Digital)	Tektronix	TDS2002B	07/31/2025	07/31/2026
US58-A059686	Clamp (Injection)	Keytek	Pro-CCL	08/28/2025	08/28/2026
US58-A059684	Generator (Spike/Transient)	Thermo Fisher	EMC Pro Plus	12/09/2025	12/09/2026
US58-A059675	Power Supply (AC/DC)	California Inst	5001IX-208-150/300	06/30/2025	06/30/2026
US58-A070497	Probe (High Voltage)	Tektronix	P5100	NCR	NCR

Calibration Abbreviations

CAL: Calibration

NCR: No Calibration Required

5.3 Surge Immunity

5.3.1 Test Procedure

The EUT was tested in accordance with IEC 61000-4-5.

5.3.2 Test Result

The EUT passed the defined requirements.

5.3.3 Test Datasheets

Element Materials Technology				
Surge Immunity per IEC / EN 61000-4-5				
Standard Referenced: EN 61000-4-5		Date: 4/8/2026		
Temperature: 20°C		Humidity: 38%		Pressure: 634 mmHG
Input Voltage: 120Vac/60Hz				
Configuration of Unit: Exercise Full Functionality with peripherals attached				
Test Engineer: Mike Tidquist				
Date	Time	Log Entries	Initials	Result
4/6/26	1430-1500	Surge Pretest completed	MT	Pass
4/8/26	0830-1430	Surge Immunity IEC 61000-4-5, Per Latest Version and test protocol. Mains: +/- 2kV CM, +/- 2kV DM, (0, 90, 180, 270) One AC main 120 VAC / 60 Hz EUT Had a paper jam (Not caused by Surge test) replaced ballot, Continue test	MT	Pass
Per Client test protocol this is a passing Test				

Element Materials Technology												
Surge Immunity per IEC / EN 61000-4-5												
Standard												
Referenced: <u>EN 61000-4-5</u>						Date: <u>4/8/2026</u>						
Temperature: <u>20°C</u>			Humidity: <u>38%</u>			Pressure: <u>634 mmHG</u>						
Input Voltage: <u>120Vac/60Hz</u>												
Configuration of												
Unit: <u>Scanning Ballots</u>												
Test Engineer: <u>Mike Tidquist</u>												
Voltage (kV)	Polarity +/-	L1	L2	L3	N	PE	Phase (deg)	Number of Pulses	Delay (sec)	Comments	Criteria Met	Pass/Fail
0.5	±	X			X		0	5	45	Differential Mode	A	Pass
0.5	±	X			X		90	5	45		A	Pass
0.5	±	X			X		180	5	45		A	Pass
0.5	±	X			X		270	5	45		A	Pass
0.5	±	X				X	0	5	30	Common Mode Line	A	Pass
0.5	±	X				X	90	5	30		A	Pass
0.5	±	X				X	180	5	30		A	Pass
0.5	±	X				X	270	5	30		A	Pass
0.5	±				X	X	0	5	30	Common Mode Neutral	A	Pass
0.5	±				X	X	90	5	30		A	Pass
0.5	±				X	X	180	5	30		A	Pass
0.5	±				X	X	270	5	30		A	Pass
1.0	±	X			X		0	5	60	Differential Mode	A	Pass
1.0	±	X			X		90	5	60		A	Pass
1.0	±	X			X		180	5	60		A	Pass
1.0	±	X			X		270	5	60		A	Pass
1.0	±	X				X	0	5	60	Common Mode Line	A	Pass
1.0	±	X				X	90	5	60		A	Pass
1.0	±	X				X	180	5	60		A	Pass
1.0	±	X				X	270	5	60		A	Pass
1.0	±				X	X	0	5	60	Common Mode Neutral	A	Pass
1.0	±				X	X	90	5	60		A	Pass
1.0	±				X	X	180	5	60		A	Pass
1.0	±				X	X	270	5	60		A	Pass
2.0	±	X				X	0	5	60	Common Mode Line	A	Pass
2.0	±	X				X	90	5	60		A	Pass
2.0	±	X				X	180	5	60		A	Pass
2.0	±	X				X	270	5	60		A	Pass
2.0	±				X	X	0	5	60	Common Mode Neutral	A	Pass
2.0	±				X	X	90	5	60		A	Pass
2.0	±				X	X	180	5	60		A	Pass
2.0	±				X	X	270	5	60		A	Pass
2.0	±	X			X		0	5	60	Differential Mode	A	Pass
2.0	±	X			X		90	5	60		A	Pass
2.0	±	X			X		180	5	60		A	Pass
2.0	±	X			X		270	5	60		A	Pass

5.3.4 Test Photographs



Surge Setup



Surge AC Mains

5.3.5 Test Equipment List

Table 5.3-1: Surge Immunity Test Equipment List

Asset Number	Asset Name	Manufacturer	Model	Calibrated	Due
US58-A059918	Ground Plane (Fixed)	NTS	GP2	NCR	NCR
US58-A070508	CEWare Software	Keytek	CEWARE	NCR	NCR
US58-A059765	Meter (Digital Multimeter)	Fluke	87 V	05/13/2024	05/28/2026
US58-A059668	Oscilloscope (Digital)	Tektronix	TDS2002B	07/31/2025	07/31/2026
US58-A059686	Clamp (Injection)	Keytek	Pro-CCL	08/28/2025	08/28/2026
US58-A059684	Generator (Spike/Transient)	Thermo Fisher	EMC Pro Plus	12/09/2025	12/09/2026
US58-A059675	Power Supply (AC/DC)	California Inst	5001IX-208-150/300	06/30/2025	06/30/2026
US58-A070497	Probe (High Voltage)	Tektronix	P5100	NCR	NCR
US58-A086561	Barometric pressure Temp RH Datalogger	Extech Instruments	SD700	05/09/2025	05/09/2026

Calibration Abbreviations

CAL: Calibration

NCR: No Calibration Required

5.4 Voltage Dips and Interruptions

5.4.1 Test Procedure

The EUT was tested in accordance with IEC 61000-4-11.

5.4.2 Test Result

The EUT passed the defined requirements.

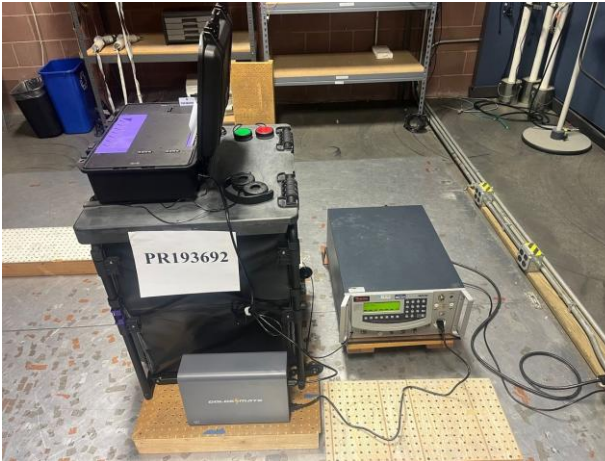
5.4.3 Test Datasheets

Element Materials Technology				
Voltage Dips and Interrupts per IEC / EN 61000-4-11				
Standard Referenced: EN 61000-4-11		Date: 04/09/2026		
Temperature: 19.7 °C	Humidity: 47%	Pressure: 1012 mb		
Input Voltage: 230V, 50Hz				
Configuration of Unit: Exercise Full Functionality with peripherals attached				
Test Engineer: Eugene DeVito / Mike Tidquist				
Date	Time	Log Entries	Initials	Result
4/9/26	0845	Setup for VD&I	EDD	NA
	0850	Setup Complete	EDD	NA
	0855	Run first set of VD&I	EDD	NA
	0906	First run complete	EDD	P
	0908	Setup for second run	EDD	NA
	0910	Setup Complete	EDD	NA
	0917	Run second set of VD&I (TA2.7-I 4 & 5)	EDD	NA
	1022	Second run complete	EDD	P
	1034	Run +20% Surge/Overvolt for 30 min	EDD	P
	1100	VD&I Complete	EDD	P

Element Materials Technology	
Voltage Dips and Interrupts per IEC / EN 61000-4-11	
Standard Referenced: <u>EN 61000-4-11</u>	Date: <u>04/09/2026</u>
Temperature: <u>19.7 °C</u> Humidity: <u>47%</u>	Pressure: <u>1012 mb</u>
Input Voltage: <u>230V, 50Hz</u>	
Configuration of Unit: <u>Exercise Full Functionality with peripherals attached</u>	
Test Engineer: <u>Eugene DeVito / Mike Tidquist</u>	

% Nominal	No. of Cycles	Phase Angle (deg)				Time between dropouts (sec)	Number of tests	Comments	Criteria Met	Pass/Fail
		0	90	180	270					
70%	0.6	X				10	3	None	Y	P
70%	0.6		X			10	3	None	Y	P
70%	0.6			X		10	3	None	Y	P
70%	0.6				X	10	3	None	Y	P
40%	6	X				10	3	None	Y	P
40%	6		X			10	3	None	Y	P
40%	6			X		10	3	None	Y	P
40%	6				X	10	3	None	Y	P
40%	60	X				10	3	None	Y	P
40%	60		X			10	3	None	Y	P
40%	60			X		10	3	None	Y	P
40%	60				X	10	3	None	Y	P
0%	300	X				1	3	None	Y	P
0%	300	X				1	3	None	Y	P
0%	300	X				1	3	None	Y	P
0%	300			X		1	3	None	Y	P
0%	300			X		1	3	None	Y	P
0%	300			X		1	3	None	Y	P

5.4.4 Test Photographs



VDI Setup Photo 1



VDI Setup Photo 2



VDI Setup Photo 3

5.4.5 Test Equipment List

Table 5.4-1: Voltage Dips and Interruptions Test Equipment List

Asset Number	Asset Name	Manufacturer	Model	Calibrated	Due
US58-A078487	Meter (Data Logger)	Extech Instruments	42270	09/15/2025	09/30/2026
US58-A059765	Meter (Digital Multimeter)	Fluke	87 V	05/13/2024	05/28/2026
US58-A059668	Oscilloscope (Digital)	Tektronix	TDS2002B	07/31/2025	07/31/2026
US58-A059686	Clamp (Injection)	Keytek	Pro-CCL	08/28/2025	08/28/2026
US58-A059684	Generator (Spike/Transient)	Thermo Fisher	EMC Pro Plus	12/09/2025	12/09/2026
US58-A059675	Power Supply (AC/DC)	California Inst	5001IX-208-150/300	06/30/2025	06/30/2026
US58-A070497	Probe (High Voltage)	Tektronix	P5100	NCR	NCR

Calibration Abbreviations

CAL: Calibration

NCR: No Calibration Required

5.5 Conducted RF Immunity

5.5.1 Test Procedure

The EUT was tested in accordance with IEC 61000-4-6 - 10Vrms, 0.15 - 80 MHz, 1% Step, 80% AM, 1kHz sine, 3s dwell.

5.5.2 Test Result

The EUT passed the defined requirements.

5.5.3 Test Datasheets

Element Materials Technology				
Conducted RF Immunity per IEC / EN 61000-4-6				
Standard Referenced: EN 61000-4-6		Date: 4/9/2026		
Temperature: 21.8 °C	Humidity: 48%	Pressure: 1011 mb		
Input Voltage: 230V, 50Hz				
Configuration of Unit: Exercise Full Functionality with peripherals attached				
Test Engineer: Eugene DeVito				
Date	Time	Log Entries	Initials	Result
4/9/26	1215	Setup for Conducted Immunity	EDD	NA
	1225	Setup Complete	EDD	NA
	1226	Start run on power lead	EDD	NA
	1320	Power lead injection complete	EDD	P
	1330	CI Complete	EDD	P

Element Materials Technology								
Conducted RF Immunity per IEC / EN 61000-4-6								
Standard Referenced: EN 61000-4-6				Date: 4/9/2026				
Temperature: 21.8 °C		Humidity: 48%		Pressure: 1011 mb				
Input Voltage: 230V, 50Hz								
Configuration of Unit: Exercise Full Functionality with peripherals attached								
Test Engineer: Eugene DeVito								
Frequency (MHz)	Modulation			Level	Dwell	Comments	Criteria Met	Pass/Fail
	Type	%	Freq	(V/m)	(sec)			
0.150 - 80.0	AM	80	1KHz	10	3	None	Y	P

5.5.4 Test Photographs



CI - Mains setup photo 1



CI - Mains setup photo 2

5.5.5 Test Data

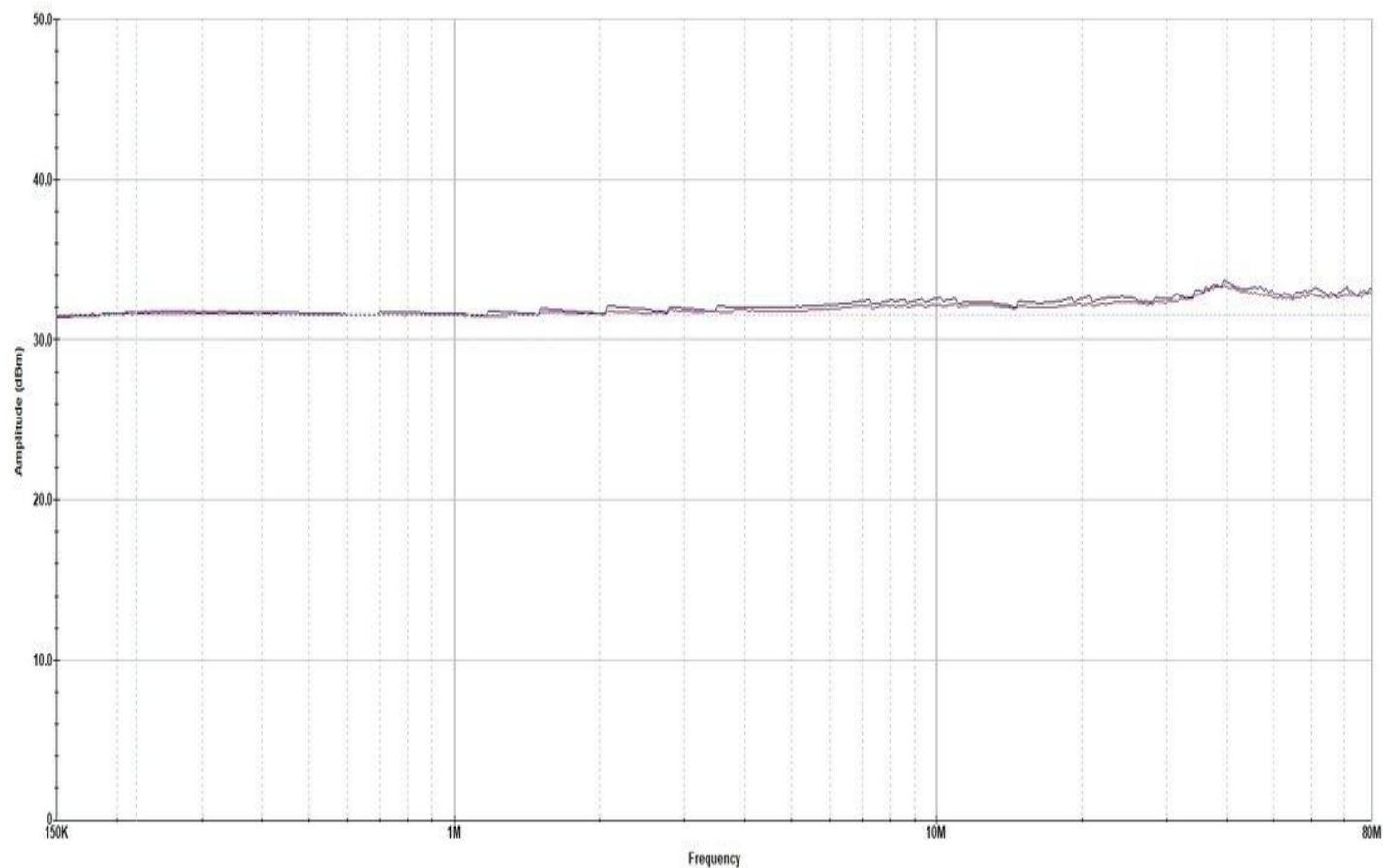
Project # - PR193692
Customer - SLI
EUT Name - VxScan

Element

IEC 61000-4-6 (Software V1.0)

— Calibrated Forward Power
— Tested Forward Power

Test Results, Calibrated Forward Power vs. Tested Forward Power



Last Data Update 01:11:54 PM, Thursday, April 09, 2026

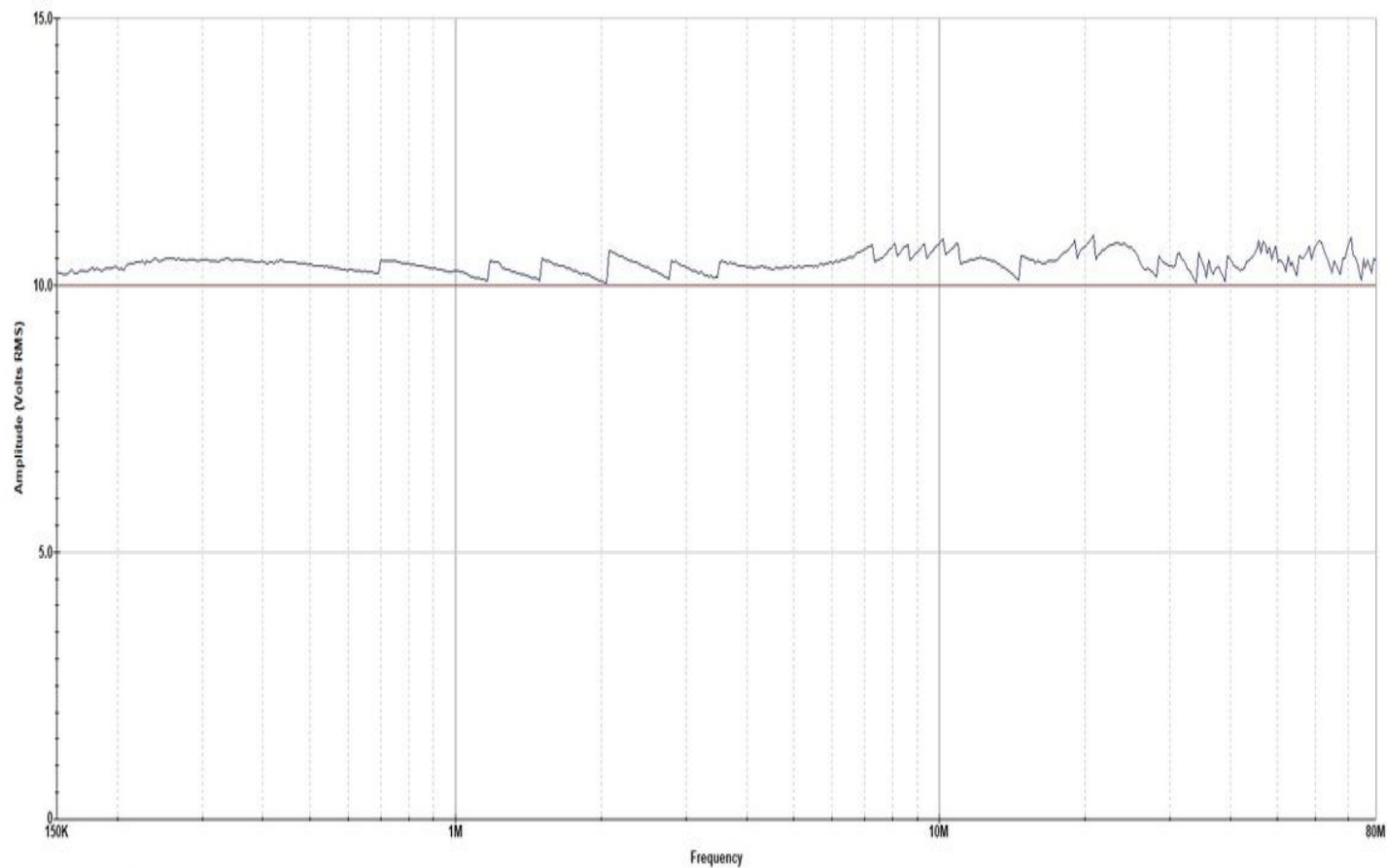
Cable Under Test: AC Mains

CI - FP Cal vs Test

Project # - PR193692
Customer - SLI
EUT Name - VxScan

Element
IEC 61000-4-6 (Software V1.0)
Calculated Test Level

— Specification Test Level
— Calculated Test Level



Last Data Update 01:11:54 PM, Thursday, April 09, 2026

CI - Test Level

5.5.6 Test Equipment List

Table 5.5-1: Conducted RF Immunity Test Equipment List

Asset Number	Asset Name	Manufacturer	Model	Calibrated	Due
US58-A059621	Meter (Digital Multimeter)	Fluke	87 V	06/11/2025	06/11/2026
US58-A059700	Coupler (Bi-Directional)	Werlatone	C9475-13	01/20/2026	01/20/2027
US58-A059657	Amplifier (Pre/RF/Low Noise)	IFI	M100	NCR	NCR
US58-A059656	Analyzer (Spectrum)	Rigol Technologies	DSA815	10/31/2025	10/31/2026
US58-A059702	Network (Coupling/Decoupling)	EMC Integrity	EMCI-CDN-M3-16	01/20/2026	01/20/2027
US58-A059694	Generator (Signal)	Hewlett Packard	8648C	08/14/2025	08/14/2026
US58-A059675	Power Supply (AC/DC)	California Inst	5001IX-208-150/300	06/30/2025	06/30/2026

Calibration Abbreviations

CAL: Calibration

NCR: No Calibration Required

5.6 Electrostatic Discharge

5.6.1 Test Procedure

The EUT was tested in accordance with IEC 61000-4-2, +/- 8kV Contact, +/-2, 4, 8, 15kV Air.

5.6.2 Test Result

The EUT passed the defined requirements.

5.6.3 Test Datasheets

Element Materials Technology				
Electrostatic Discharge per IEC / EN 61000-4-2				
Standard Referenced: EN 61000-4-2			Date: 4/10/2026	
Temperature: 18.8 °C		Humidity: 48%		Pressure: 855 mb
Input Voltage: 230V, 50Hz				
Configuration of Unit: Exercise Full Functionality with peripherals attached				
Test Engineer: Eugene DeVito				
Date	Time	Log Entries	Initials	Result
4/10/26	0800	Start setup for ESD	EDD	NA
	0835	Setup Complete	EDD	NA
	0836	Start VCP Testing	EDD	NA
	0848	VCP complete at +/-8kV 10 pulses per	EDD	P
	0905	Perform Contact Discharges	EDD	P
	0935	Perform Air Discharges	EDD	P
	1030	ESD Test Complete	EDD	P

Element Materials Technology			
Electrostatic Discharge per IEC / EN 61000-4-2			
Standard Referenced:	EN 61000-4-2		Date: 4/10/2026
Temperature:	18.8 °C	Humidity: 48%	Pressure: 855 mb
Input Voltage:	230V, 50Hz		
Configuration of Unit:	Exercise Full Functionality with peripherals attached		
Test Engineer:	Eugene DeVito		

Test Location	Voltage Level	Polarity		Number of Pulses	Pulses Per Second	Notes	Criteria Met	Pass/Fail
	(kV)	+	-					
Indirect Discharge Points								
VCP	8	X	X	10	1	Front Side	Y	P
VCP	8	X	X	10	1	Left Side	Y	P
VCP	8	X	X	10	1	Right Side	Y	P
VCP	8	X	X	10	1	Back Side	Y	P
Contact Discharge Points								
Photo 1. base plate, 3 spots	8	X	X	10	0.5	Screen blanked then came back	Y	P
Photo 1. Metal bracket at rear of EUT	8	X	X	10	0.5	Screen blanked then came back	Y	P
Air Discharge Points								
Photo 2. middle of touch screen	2, 4, 8, & 15	X	X	10	1	+15kV first pulse screen blanked and came back	Y	P
Photo 3 & 4. Sides of touch screen	2, 4, 8, & 15	X	X	10	0.5	Several voltages had the screen blank out and come back	Y	P
Photo 5. Headphones	2, 4, 8, & 15	X	X	10	1	ND	Y	P
Photo 6. Green button	2, 4, 8, & 15	X	X	10	1	ND	Y	P
Photo 7. Red button	2, 4, 8, & 15	X	X	10	1	ND	Y	P
Photo 8. Poll worker card	2, 4, 8, & 15	X	X	10	1	ND	Y	P
ND: No Discharge points found								

5.6.4 Test Photographs



ESD Photo 01



ESD Photo 02



ESD Photo 03



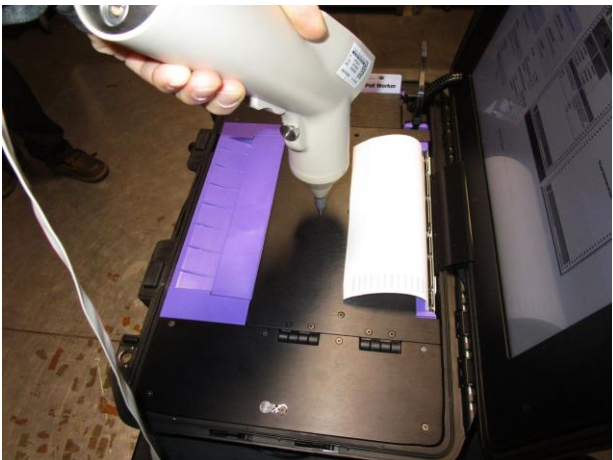
ESD Photo 04



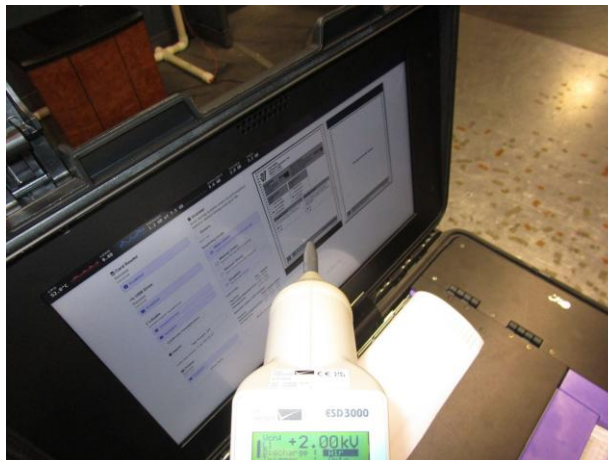
ESD Photo 05



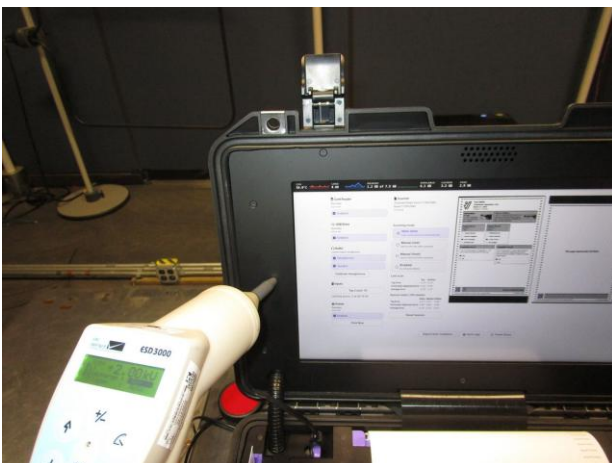
ESD Photo 06



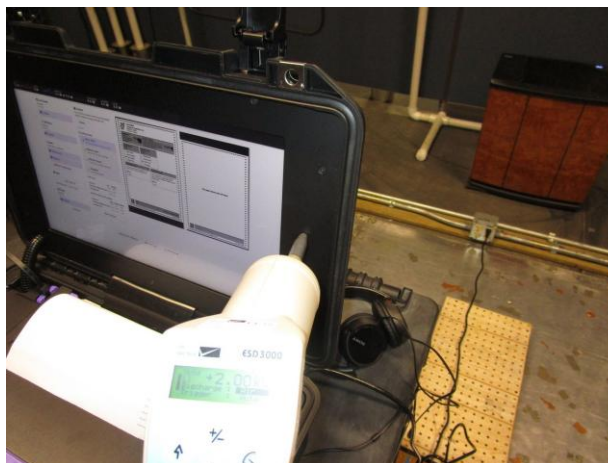
ESD Photo 07



ESD Photo 08



ESD Photo 09



ESD Photo 10



ESD Photo 11



ESD Photo 12



ESD Photo 13



ESD Photo 14



ESD Photo 15

5.6.5 Test Equipment List

Table 5.6-1: Electrostatic Discharge Test Equipment List

Asset Number	Asset Name	Manufacturer	Model	Calibrated	Due
US58-A084471	ESD Gun	EMC-Partner	ESD3000	06/19/2025	06/19/2026
US58-A086561	Barometric pressure Temp RH Datalogger	Extech Instruments	SD700	05/09/2025	05/09/2026
US58-A059669	Meter (Digital Multimeter)	Fluke	83-3	11/22/2024	02/17/2027

Calibration Abbreviations

CAL: Calibration

NCR: No Calibration Required

End of Test Report