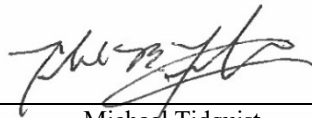


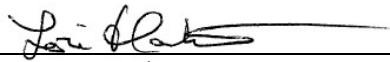
Element Materials Technology Denver-Longmont A.K.A. NTS Labs, LLC

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

Prepared For

SLI Compliance | 4720 Independence Street | Wheat Ridge, CO 80033

Prepared ByElement Materials Technology Denver-Longmont | 1736 Vista View Drive | Longmont, CO 80504-5242 | 303-776-7249 | www.element.com

Michael Tidquist
Technician

Lori Hartman
Preparer

Eugene DeVito
Program Manager

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Revision History

Rev.	Description	Issue Date
0	Initial Release	05/13/2026
1	Changes the mode of operation er the customer's request	05/26/2026

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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: IEC/EN 61000-4-2
- SLI Compliance Purchase Order 20251114-01 dated 11/14/2025
- Element Quotation QUO-000767147-0 dated 11/13/2025
- 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	2	VxMarkScan	VxMarkScan	MK-11-004, MK-11-007

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

Table 4.2-1: Measurement Uncertainties (Immunity)

Measurement Type	Measurement Unit	Frequency Range	Expanded Uncertainty
ESD	KV	NA	.+/- 8.6%

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	Electrostatic Discharge	IEC/EN 61000-4-2	Longmont	04/08/2026 - 04/30/2026	VXMarkScan	MK-11-007	Failed
						MK-11-004	Passed

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

5.1 Electrostatic Discharge**5.1.1 Test Procedure**

The EUT was tested in accordance with IEC/EN 61000-4-2.

5.1.2 Test Result

The EUT passed the defined requirements.

5.1.3 Test Datasheets

Element Materials Technology				
Electrostatic Discharge per IEC / EN 61000-4-2				
Standard Referenced: EN 61000-4-2		Date: 4/8,29/2026		
Temperature: 21,20°C		Humidity: 38,43%	Pressure: 634,640 mmHG	
Input Voltage: 120Vac/60Hz				
Configuration of Unit: Exercise Full Functionality with peripherals attached				
Test Engineer: Mike Tidquist				
Date	Time	Log Entries	Initials	Result
4/8/26	0800-0830	ESD Pretest performed, Drain cable measure .937mOhm	MT	Complete
4/8/26	1000-1130	Electrostatic Discharge. +/- 8kV Contact, +/-2, 4, 8, 15kV Air. 120 VAC / 60 Hz EUT was showing that a key was pressed when the Vertical coupling plane was being discharged to. Also EUT would reboot. Client is determining if this is acceptable	MT	---
4/8/26	1130-1400	Trouble shooting issue	MT	Continue
4/8/26	1400-1430	Client replaced EUT. S/N MK-11-007 will check ESD on new unit Same failure as previous EUT	MT	Fail
4/14/26	1250-1325	Electrostatic Discharge. +/- 8kV Contact, +/-2, 4, 8, 15kV Air. 120 VAC / 60 Hz	EDD	NA
4/14/26	1325	Failure on Right side with VCP at 8kV - 8th pulse locked up the machine and when it went to reboot there was a reboot error.	EDD	Fail
4/29/26	0800-1120	Electrostatic Discharge. +/- 8kV Contact, +/-2, 4, 8, 15kV Air. 120 VAC / 60 Hz -8kV to power input EUT rebooted and self recovered per client this is acceptable. -8kv to "Sip and Puff" connector accessory stopped working. Checking ESD at cable connector using 30 sec. wait between discharges. EUT reboots everytime at -8kV. Changed to jelly bean switch, EUT did not reboot but accessory does not work.	MT	Fail
4/29/26	1130-1530	Client is going to try a new EUT S/N: MK-11-007 Checked failing area EUT passed. Restart ESD on New EUT -8kV caused same error as previously seen on other EUT, Client is determining next steps	MT	Fail

4/30/26	0914	Added rubber gromet around the PAT device to SN 4	EDD	NA
	0920-0934	Start with Air Discharge at +/-2, 4, 8, & 15kV at same location as failure	EDD	Pass
	0935-1015	Perform Contact Discharge on Headphone Jack	EDD	Pass
	1016-1252	Perform all Air Discharges on the rest of the EUT - See Photos - Lunch break included.	EDD	Pass
	NA	EUT touch screen lockup. Retested at +/- 15kV on all three locations and passed	EDD	Pass
		ESD is a Pass		

Element Materials Technology								
Electrostatic Discharge per IEC / EN 61000-4-2								
Standard Referenced: EN 61000-4-2				Date: 4/8,29/2026				
Temperature: 21,20°C		Humidity: 38,43%		Pressure: 634,640 mmHG				
Input Voltage: 120Vac/60Hz								
Configuration of Unit: Exercise Full Functionality with peripherals attached								
Test Engineer: Mike Tidquist								
Test Location	Voltage Level	Polarity		Number of Pulses	1 Pulse Every 2 Seconds	Comments	Criteria Met	Pass/Fail
	(kV)	+	-					
Indirect Discharge Points								
VCP	8	X	X	10	1	Front Side 2 positions	Y	Pass
VCP	8	X	X	10	1	Left Side	Y	Pass
VCP	8	X	X	10	1	Right Side	Y	Pass
VCP	8	X	X	10	1	Back Side 2 positions	Y	Pass
Contact Discharge Points - See Photos.								
ESD Setup								
ESD To all locations		8	X	X	10	1	Y	Pass
Air Discharge Points - See Photos.								
ESD Setup								
ESD To all locations		2,4,8,15	X	X	10	1	ND	Pass
ND: No Discharge points found								

5.1.4 Test Photographs



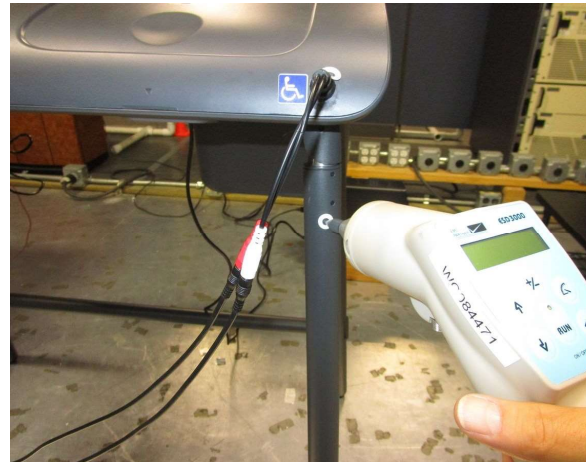
ESD Setup



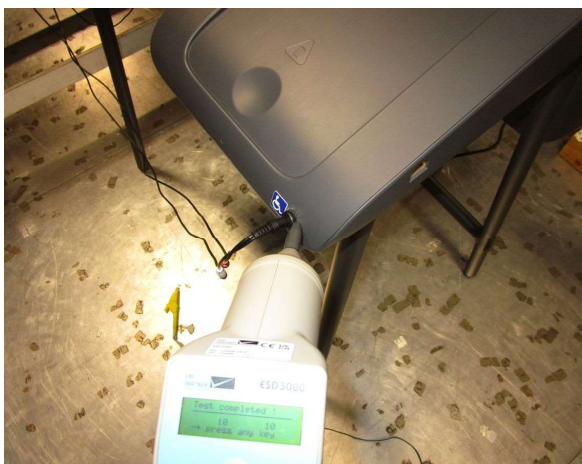
ESD 01 Contact Discharge



ESD 02 Contact Discharge



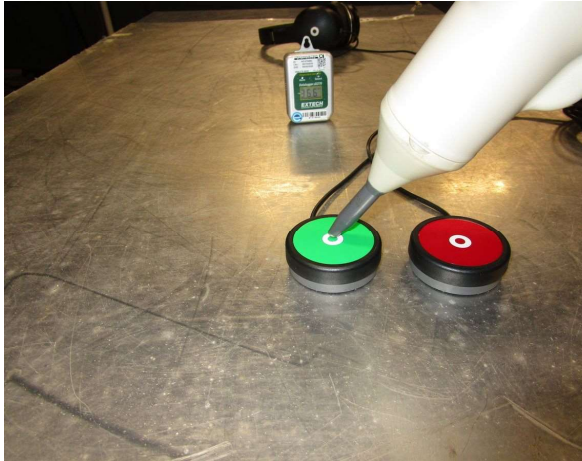
ESD 03 Contact Discharge



ESD 09 Air Discharge



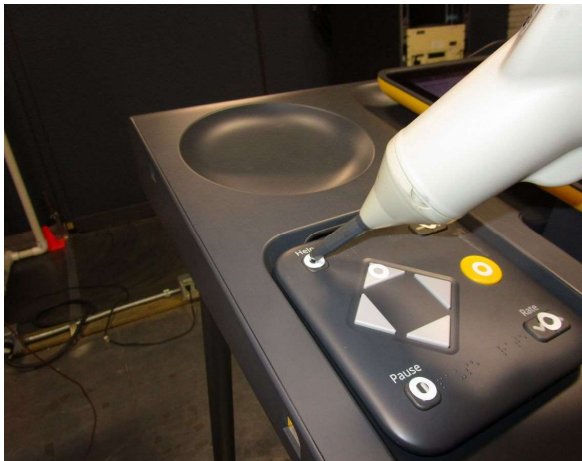
ESD 10 Air Discharge



ESD 11 Air Discharge



ESD 12 Air Discharge



ESD 13 Air Discharge



ESD 14 Air Discharge



ESD 15 Air Discharge



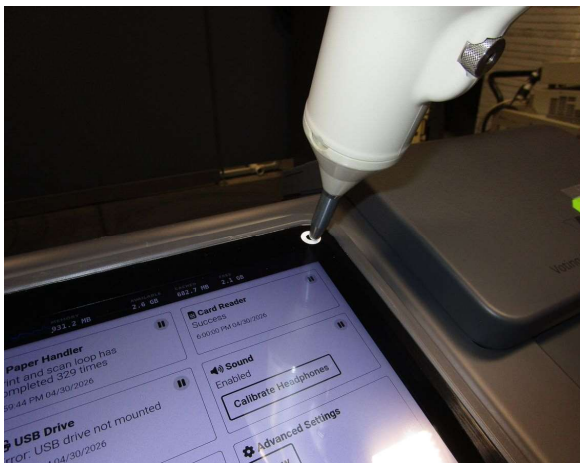
ESD 16 Air Discharge



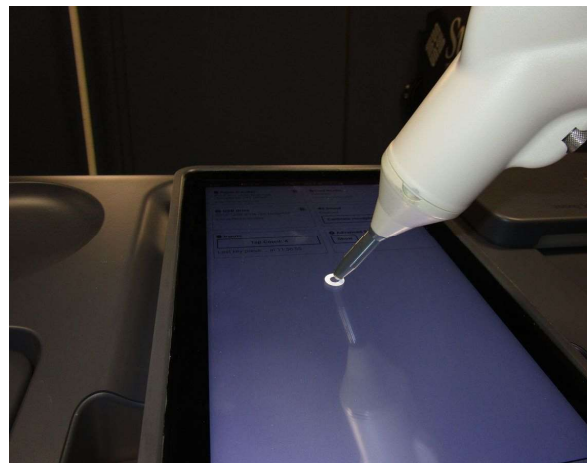
ESD 17 Air Discharge



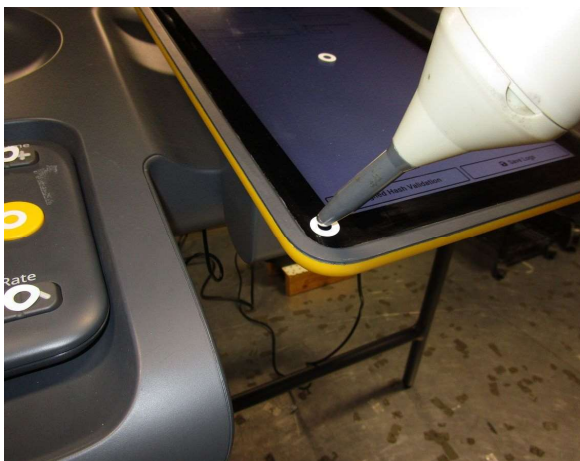
ESD 18 Air Discharge



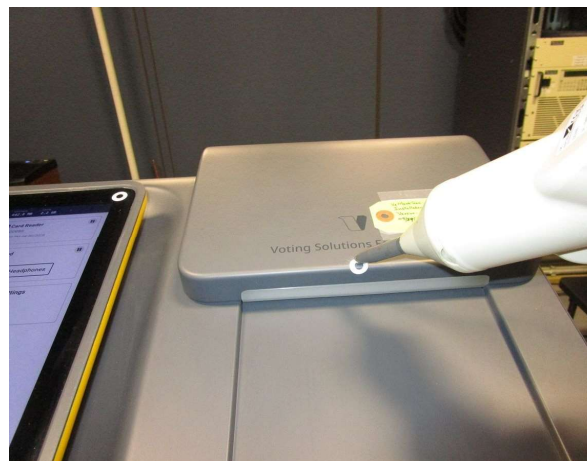
ESD 19 Air Discharge



ESD 20 Air Discharge



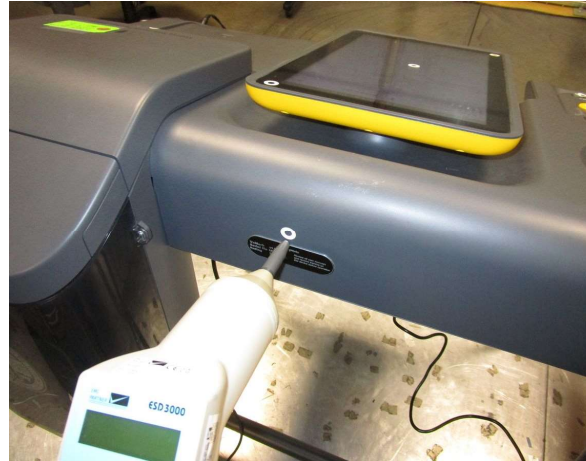
ESD 21 Air Discharge



ESD 22 Air Discharge



ESD 23 Air Discharge



ESD 24 Air Discharge



ESD 25 Air Discharge



ESD 04 Contact Discharge



ESD 05 Contact Discharge



ESD 06 Contact Discharge

5.1.5 Test Equipment List

Table 5.1-1: Electrostatic Discharge Test Equipment List

Asset Number	Asset Name	Manufacturer	Model	Calibrated	Due
US58-A059918	Ground Plane (Fixed)	NTS	GP2	NCR	NCR
US58-A084471	ESD Gun	EMC-Partner	ESD3000	06/19/2025	06/19/2026
US58-A086561	Barometric pressure Temp RH Datalogger	Extech Instruments	SD700	02/17/2026	05/09/2026
US58-A059621	Meter (Digital Multimeter)	Fluke	87 V	06/11/2025	06/11/2026
US58-A059680	Power Supply (AC)	California Inst	1251P	NCR	NCR

Calibration Abbreviations

CAL: Calibration

NCR: No Calibration Required

End of Test Report