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**PHYSICAL CARD TEST REPORT  
REPORT PRODUCED FOR JOB Q29924  
SET 14**

**TO: AMERICO RODRIGUEZ  
JUNTA CENTRAL ELECTORAL  
AV 27 DE FEBRERO ESQ LUPERON  
ZONA INDUSTRIAL DE HERRERA  
SANTO DOMINGO, 11113  
DOMINICA**

**TEST COMPLETED BY ANDREW VONEIDA September 27, 2013  
REPORT COMPLETED BY TERRY SCHINDLER October 7, 2013**

**Q-CARD Laboratories  
301 Reagan St.  
Sunbury, PA 17801  
570-286-7447  
[www.q-card.com](http://www.q-card.com)**

Q-CARD completed testing of cards received on August 30, 2013, against an order for nine (9) different tests. The cards were received in new condition. Cards were labeled and identified for each test by Q-CARD. All of the data in this test report pertains to the tests that were ordered.

**BLANK WHITE CARDS**

Test No. 1  
**CARD TESTING FOR ID-1 CARD FLEXURE**  
 Per ANSI/INCITS 322:2008, Section 5.4

Card ID	Axis	Side of Flex Extension	ANSI 440 Class	Credit Card Durability
Card 250	B	Front Side Up	D5	Pass

**PRINTED CARDS - BACK**

Test No. 2  
**CARD TESTING FOR SURFACE ABRASION**  
 Per ANSI/INCITS 322-2008, Section 5.9

Card ID	Stop Cycles	ANSI 440 CLASS
Card 250	3750	D5

Test No. 3  
**CARD TESTING FOR DELAMINATION CROSS HATCH TAPE**  
 Per ANSI/INCITS 322:2008, Section 5.3

Card ID	Scale Rating	Rating Meaning	Result
Card 250	5	No Adhesion	Pass

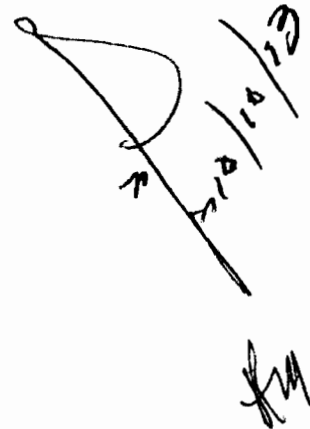
Test No. 4  
**CARD TESTING FOR DAYLIGHT EXPOSURE IMAGE STABILITY-XENON ARC**  
 Per ANSI/INCITS 322:2008, Section 5.16

Card ID	Side Exposed	Observation	Result
Card 250	Back	No Change	Pass

**PRINTED CARDS - FRONT**

**Test No. 5**  
**CARD TESTING FOR SURFACE ABRASION**  
Per ANSI/INCITS 322-2008, Section 5.9

Card ID#	Stop Cycles	ANSI 440 CLASS
Card 514P	5000	D5



**Test No. 6**  
**CARD TESTING FOR DELAMINATION - 90°**  
Per ANSI/INCITS 322-2008, Section 5.2

Card ID#	P1	Side Front/Back
	Minimum Peel Force 3500m	
Card 514P	Pass	Front

**Test No. 7**  
**CARD TESTING FOR DELAMINATION CROSS HATCH TAPE**  
Per ANSI/INCITS 322:2008, Section 5.3

Card ID#	Scale Rating	Rating Meaning	Pass
Card 514P	5	No Adhesion	Pass

**Test No. 8**  
**CARD TESTING FOR DAYLIGHT EXPOSURE IMAGE STABILITY-XENON ARC**  
Per ANSI/INCITS 322:2008, Section 5.16

Card ID#	Side Exposed	Observation	Result
Card 514P	Front	No Change	Pass

**Test No. 9**  
**CARD TESTING FOR CORNER IMPACT RESISTANCE**  
Per ANSI/INCITS 322:2008, Section 5.20

Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card 514P	N/A	N/A	Fail	Fail	Broke/Delamination

### **Executive Summary**

Tests that should be reviewed for failure assessment would be mentioned in this summary and all tests that passed 100% of the test requirements are not mentioned here. The test data for each test may be comprehensively reviewed in Annex A of this test report.

Test No. 1, card testing card flexure, indicates that the card body durability category is D5. It is my opinion the card body should be suitable for usage applications with service life up to 10 years.

Test No. 9, card testing for corner impact resistance, indicates that the cards broke on two (2) corner out of two (2) corners impacted. This test was conducted as a sequence following Xenon arc exposure. Xenon arc exposure was applied before corner impact to accelerate the aging of plastic cards. I think this test could indicate that the card body might become brittle with age.

Thank you for using Q-CARD test laboratory services.

Sincerely,

Terry Schindler  
Vice President – Technology Group  
Q-Card Laboratories  
301 Reagan Street  
Sunbury, PA 17801  
570-286-7447 or Mobile 570-847-4011  
[t.schindler@brush-qcard.com](mailto:t.schindler@brush-qcard.com)  
[www.q-card.com](http://www.q-card.com)

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# ANNEX A

## PRINTED DATA ARCHIVE

Customer Name: \_\_\_\_\_

Job #: Q29924-SET14

**Card Testing for ID-1 Card Flexure**

Sampled By: ADV  
 # of Samples Tested: 1  
 Technician: ADV  
 Time: 7:45 AM  
 Date: 9/16/2013  
 Temperature: 21.9 C  
 Relative Humidity: 48%

Samples Preconditioned:  X  
 Calibration Verified:  X

Valid Until: 2/14

Card ID#	Axis	Side of Flex Extension	Cycle to Break	Length of Fracture (mm)	Description of Fracture	Abbr. &o Clean
Card S14V	B	Front Side Up	>100,000	N/A	Pass	D5

Job Notes:

Job #: Q29924-SET14 Customer Name: Junta Central Electoral

**Card Testing for Surface Abrasion (Backside)**

Sampled By: ADV  
 # of Samples Tested: 1  
 Technician: ADV  
 Time: 1:50 PM  
 Date: 9/12/2013  
 Temperature: 24.2 C  
 Relative Humidity: 47%

Calibration Verified:  Valid Until: 3/14

Card ID#	Strip Cycles	ANSI #40 GLASS
Card S14P	3750	D5

Job Notes:

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Customer Name: Junta

Job #: Q29924-SET14

### Card Testing for Crosshatch Delamination (Backside)

Card ID#	Scale Rating	Rating Meaning
Card 514P	5	No Adhesion Pass

# of Samples Tested: 1  
Technician: CNJ  
Time: 11:30 AM  
Date: 9/16/2013  
Temperature: 22.9 C  
Relative Humidity: 46%

Job Notes:



**Card Testing for Xenon Arc Test Log (Backside)**

Sampled By: ADV  
 # of Samples Tested: 1  
 Technician: ADV  
 Time: 7:50 AM  
 Date: 9/24/2013  
 Temperature: 22.1 C  
 Relative Humidity: 44%

Pre-Test Visual Inspection: Pass  
 Post-Test Visual Inspection: Pass

Samples Preconditioned

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S14P	No Defects	Card S14P	No Defects

Job Notes

Card High Resolution Images Pre/Post   
 .96 W/m2 @ 420 nm  
 168 Hour exposure time.

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Job #: Q29924-SET14

Customer Name: Junta Cental Electoral

### Card Testing for Surface Abrasion - Front

Sampled By: ADV  
# of Samples Tested: 1  
Technician: ADV  
Time: 1:50 PM  
Date: 9/12/2013  
Temperature: 24.2 C  
Relative Humidity: 47%

Card ID#	Stop Cycle	ANSI #100 CLASS
Card #14P	5000	D5

Calibration Verified:  Valid Until: 3/14

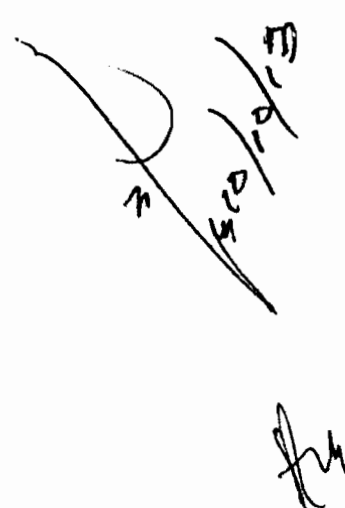
Job Notes:

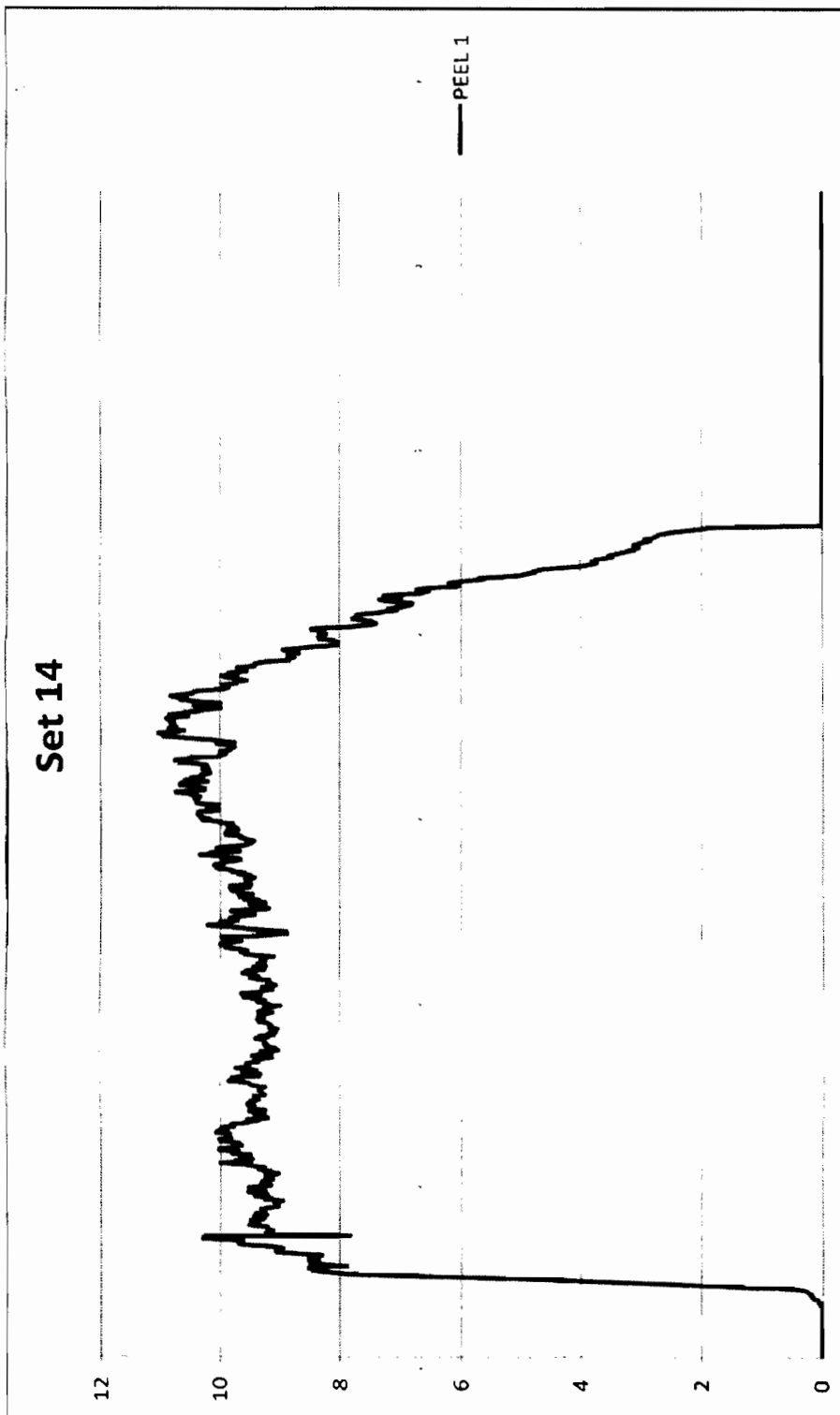
### Card Testing for Peel Strength (Front)

Sampled By: ADV  
 # of Samples Tested: 1  
 Technician: ADV  
 Time: 12:30 AM  
 Date: 9/17/2013  
 Temperature: 22.7 C  
 Relative Humidity: 44%  
 Calibration Verified:   
 Samples Preconditioned:  Valid Until: 6/14

Card ID#	P1	Sub
Minimum Peel Force	35N/mm	Front
Card #14P	0.789	Front

Job Notes:


  
 9/17/2013



Job #: Q29924-SET14 Customer Name: Junta

### Card Testing for Crosshatch Delamination (Front)

# of Samples Tested: 1  
Technician: CNJ  
Time: 11:30 AM  
Date: 9/16/2013  
Temperature: 22.9 C  
Relative Humidity: 46%

Card ID#	Scale Rating	Rating Meaning
Card 814P	5	No Adhesion Pass

Job Notes:

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Job #: Q29924-SET14

Customer Name: Junta Central Electoral

### Card Testing for Xenon Arc Test Log (Frontside)

Sampled By: ADV  
 # of Samples Tested: 1  
 Technician: ADV  
 Time: 3:10 PM  
 Date: 10/1/2013  
 Temperature: 24.7 C  
 Relative Humidity: 49%

Pre-Test Visual Inspection: Pass

Post-Test Visual Inspection: Pass

Samples Preconditioned

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S14P	No Defects	Card S14P	No Defects

Job Notes

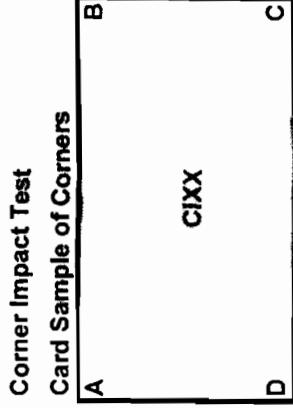
Card High Resolution Images Pre/Post

.96 W/m2 @ 420 nm  
 168 Hour exposure time.

Job #: Q29924-SET14

Customer Name: Junta Central Electoral

**Card Testing for Corner Impact**



# of Samples Tested: 1  
 Technician: ADV  
 Time: 10:10 AM  
 Date: 10/2/2013  
 Temperature: 22.6 C  
 Relative Humidity: 50%

Samples Preconditioned  X

Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card S14P	N/A	N/A	Fail	Fail	Broke/Delamination

Job Notes:

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