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Ron Smith & Associates, Inc.

Testing Division

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Summary Report Latent Print Processing Proficiency Test #23501 Issued: April 28, 2023

On February 27, 2023, Ron Smith and Associates, Inc. (RS&A) shipped the Latent Print Processing Proficiency Test #23501. Participants were required to submit their responses no later than April 7, 2023 in order for them to be included in this summary report.

A total of 80 tests were ordered and shipped, with 73 participants returning their responses. <u>This summary</u> <u>report is based on 292 individual responses (73 participants returning 4 responses each)</u>. The test included four items for latent print processing.

The results presented in this report reflect whether or not the participants' submitted results agree or disagree with the assigned values garnered from pre-distribution testing and outlined in *The Manufacturer's Report* (Appendix 1). The primary purpose of a Summary Report is to provide an overall documentation of all the submitted responses. It is RS&A's intention to go a step further by providing more meaningful statistical results through analyzing the submitted responses in relation to the demographics obtained from each of the examiners participating in this proficiency test. All results and statistics for this test will be outlined through graphs and charts found in the remainder of this report.

Prior to distribution of this test, all the expected responses were determined, by internal and external consensus, to be either "Friction Ridge Detail <u>was</u> Developed" or "Friction Ridge Detail <u>was not</u> Developed". In designing this proficiency test, it is understood that sometimes friction ridge detail may be present on an item during the manufacturing process. For this reason, all items are cleaned prior to being included in a test. Because of the latent nature of the prints, it is possible that some portions of friction ridge detail can be missed in the cleaning process. To satisfy this condition for the test, all developed friction ridge detail has to be photographed in order to be given credit. If the photograph is accepted, the participant will be given credit for the friction ridge development in instances when the expected answer was "Friction Ridge Detail <u>was not</u> Developed".

RS&A strives to maintain the confidentiality of all its clients and participants. All results are obtained and published using randomly generated test codes. RS&A will not release the identity of any participant without the written consent of the participant and/or the agency involved.

For any questions or further information, please contact our Proficiency Testing Coordinator by emailing <u>testing@ronsmithandassociates.com</u> or by calling toll free at 1-866-832-6772.



Test Manufacturer's Information Latent Print Processing Proficiency Test #23501

This proficiency test consisted of four items labeled as Item #1 (car charger), Item #2 (hand sanitizer), Item #3 (red cup) and Item #4 (paper bag). The items were similar to those normally encountered in latent print processing casework. The participant was required to process the items for the presence or absence of friction ridge detail. The assigned values are as follows:

Item #	Assigned Value
Item #1 (Car Charger)	Friction Ridge Detail <u>Was</u> Developed – Supported with Electronically Captured Image
Item #2 (Hand Sanitizer)	Friction Ridge Detail <u>Was</u> Developed – Supported with Electronically Captured Image
Item #3 (Red Cup)	Friction Ridge Detail <u>Was</u> Developed – Supported with Electronically Captured Image
Item #4 (Paper Bag)	Friction Ridge Detail <u>Was</u> Developed – Supported with Electronically Captured Image

The assigned values below were determined through the ground truth information and verified through unanimous agreement during pre-distribution testing.

Known Matrix used:

Item 1: Sebaceous oils, Item 2: Sebaceous oils, Item 3: Sebaceous oils, Item 4: Amino Acids

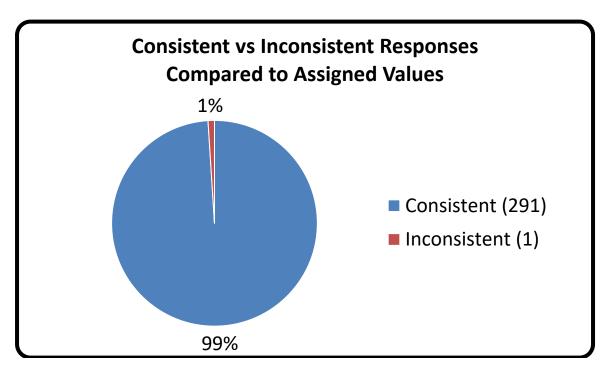
Individual reports will be provided to participants by mid April 2023. The final summary report for this test will be posted on the Ron Smith and Associates website by late April 2023 using the following link: http://www.ronsmithandassociates.com/proficiency/lpprocessing.html

It is recommended to postpone evaluating an individual's performance until after you have received the statistical averages contained in the summary report.

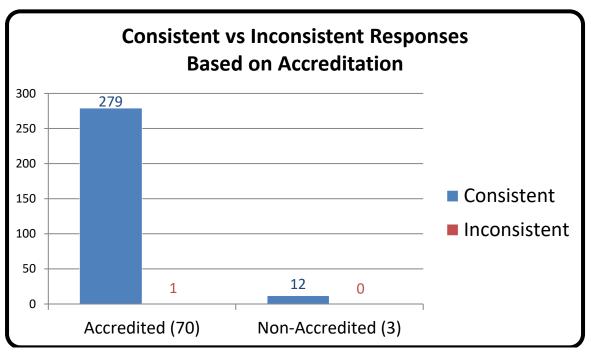
For any questions or further information, contact the Proficiency Testing Coordinator by emailing <u>testing@ronsmithandassociates.com</u> or call toll free at 1-866-832-6772.

Authorized by:	Jon Byrd, CEO
Issue Date:	April 17, 2023



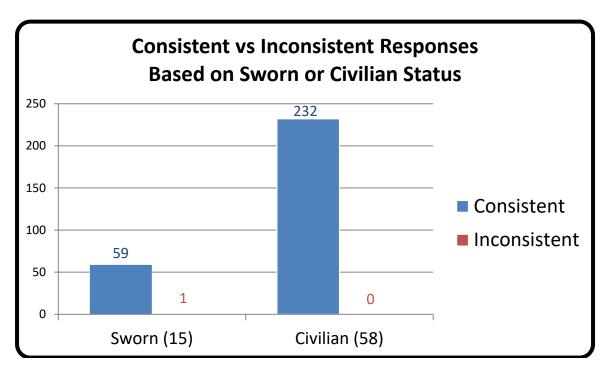


Appendix 3

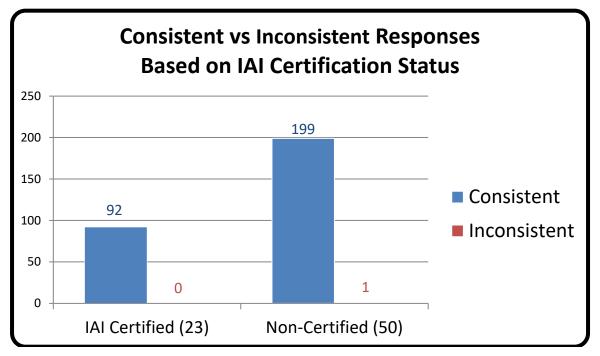


*Numerical values shown are based on **73 participant submissions, each with 4 responses, equaling 292 total responses**.



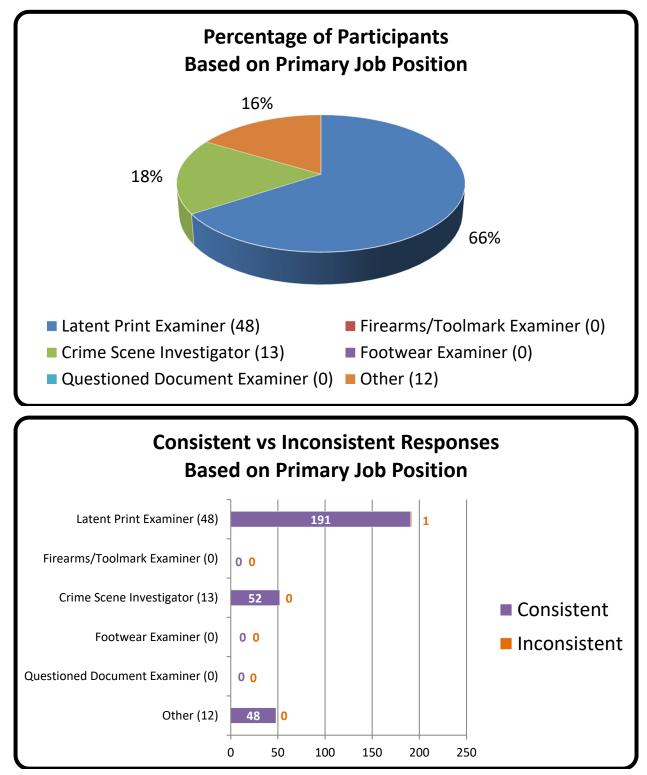


Appendix 5



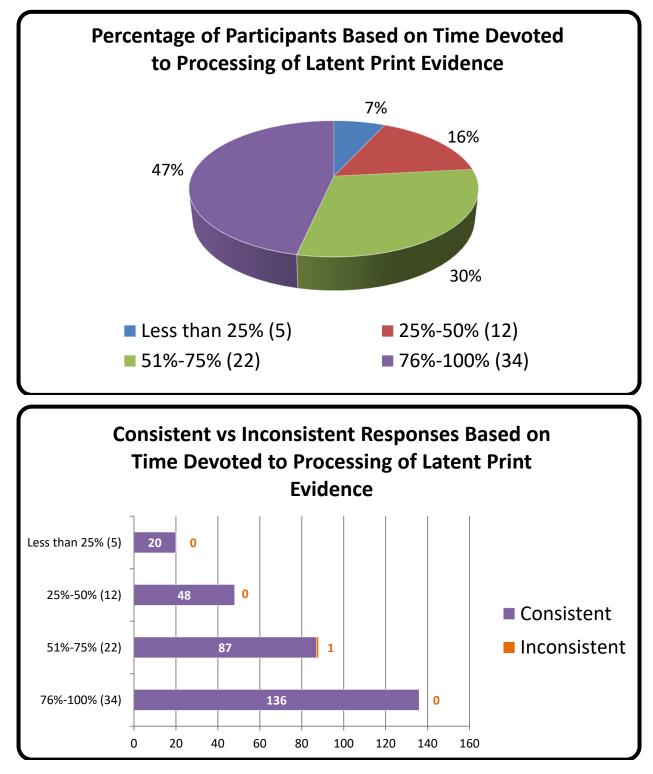
*Numerical values shown are based on **73 participant submissions, each with 4 responses, equaling 292 total responses**.





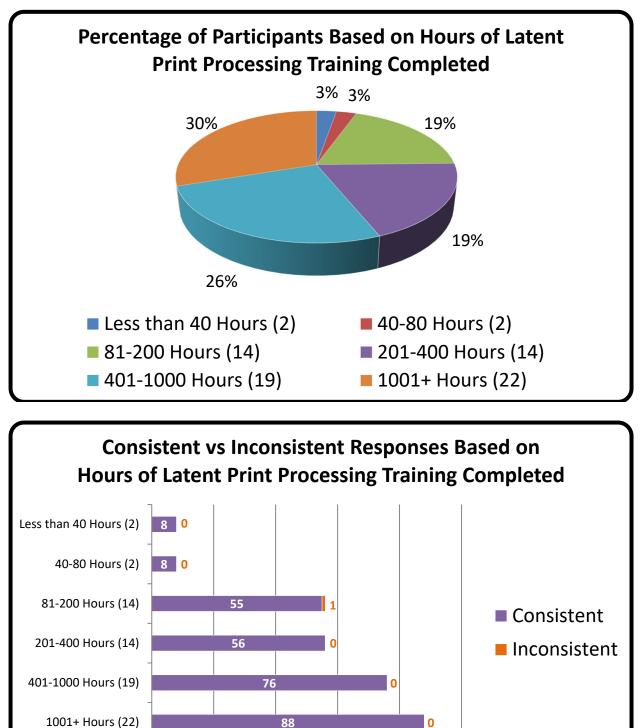
*Numerical values shown are based on **73 participant submissions, each with 4 responses, equaling 292 total responses**.





*Numerical values shown are based on **73 participant submissions, each with 4 responses, equaling 292 total responses**.





*Numerical values shown are based on **73 participant submissions, each with 4 responses, equaling 292 total responses**.

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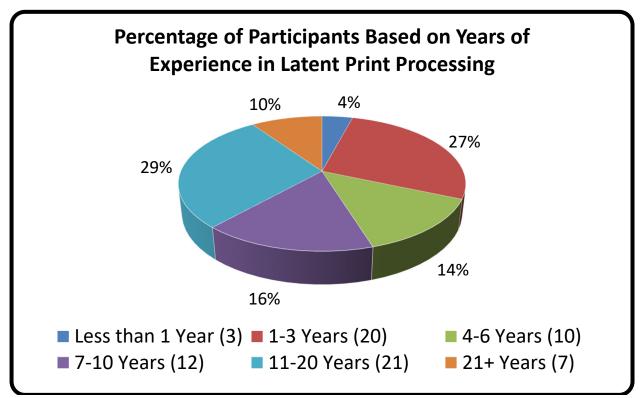
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

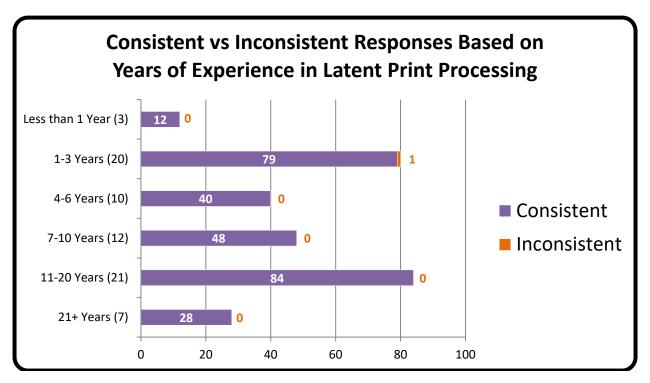
LP Processing Proficiency Test Test #23501

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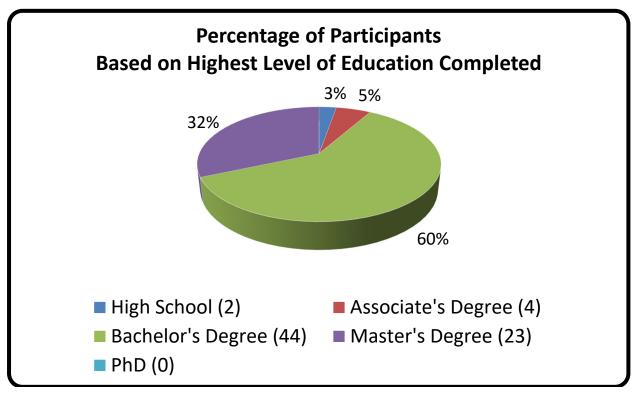


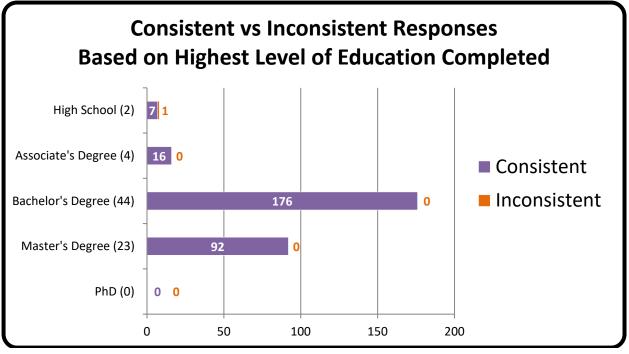
*Numerical values shown are based on **73 participant submissions, each with 4 responses, equaling 292 total responses**.

*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

LP Processing Proficiency Test Test #23501

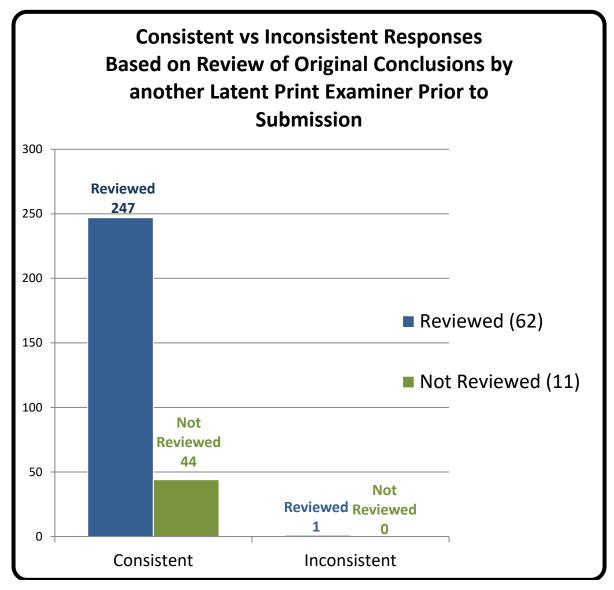






*Numerical values shown are based on **73 participant submissions, each with 4 responses, equaling 292 total** responses.





Numerical values shown are based on **73 participant submissions, each with 4 responses, equaling 292 total responses**.



Participant Responses Listed by Test Code

	ltem #	ltem #1	ltem #2	Item #3	ltem #4
		Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Assigned Malues	Was Developed and	Was Developed and	Was Developed and	Was Developed and
	Assigned Values	Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	6545V23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
	0343723301	Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	4223Q23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
	4225025501	Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	2477Z23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
	2477223301	Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	-	Friction Ridge Detail
	5710K23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
	5710825501	Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
e	9073N23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
00	50751125501	Supported with	Supported with	Supported with	Supported with
Test Code		photograph	photograph	photograph	photograph
es		Friction Ridge Detail	Friction Ridge Detail	-	Friction Ridge Detail
-	4207C23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
	1207 020001	Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	•	Friction Ridge Detail
	2027N23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
		Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	-	Friction Ridge Detail
	9019M23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
		Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	-	Friction Ridge Detail
	5288P23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
		Supported with	Supported with	Supported with	Supported with
		photograph	photograph	photograph	photograph
		Friction Ridge Detail	Friction Ridge Detail	-	Friction Ridge Detail
	6103G23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
		Supported with	Supported with	Supported with	Supported with



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8729X23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	-
194W23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	-
5194123501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	-
6585K23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
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1524D23501	Supported with	Supported with	Supported with	Supported with
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6128S23501	Was Developed and	Was Developed and	Was Developed and	·
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2985L23501	Was Developed and	Was Developed and	Was Developed and	
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1333723301	Supported with	Supported with	Was Developed and Supported with	Was Developed and Supported with
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1339723301	Supported with	Supported with	Supported with	Supported with photograph
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3010F23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	-	Was Developed and
5574D23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	photograph
	Was Developed and	Was Developed and	Was Developed and	Friction Ridge Detail
6781R23501	Supported with	Supported with	Supported with	Was Not Developed
				was Not Developed
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	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	-
4756V23501	Was Developed and	Was Developed and		Was Developed and
	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	-
8455V23501	Was Developed and	Was Developed and	Was Developed and	-
	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	-
7662G23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
7002023301	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
4474N23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
44/41125501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
074 ()/225 04	Was Developed and	Was Developed and	Was Developed and	Was Developed and
9716X23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Developed and	Was Developed and	Was Developed and	Was Developed and
4716 23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	•
3289L23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
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7258Z23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
50 400 400504	Was Developed and	Was Developed and	-	Was Developed and
5243M23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	-
2697M23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	-	Was Developed and
9341S23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	-
6467U23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	•
1416P23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	-
3302D23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	
	Was Developed and	Was Developed and	Was Developed and	
7684G23501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	photograph	photograph	photograph	photograph
	Eriction Bidge Detail	Eristian Bidge Detail		Eristian Bidge Detail
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	•
7620E23501	Was Developed and	Was Developed and	Friction Ridge Detail <u>Was</u> Developed and	Was Developed and
7620E23501	Was Developed and Supported with	Was Developed and Supported with	Friction Ridge Detail <u>Was</u> Developed and Supported with	Was Developed and Supported with
7620E23501	Was Developed and Supported with photograph	<u>Was</u> Developed and Supported with photograph	Friction Ridge Detail <u>Was</u> Developed and Supported with photograph	Was Developed and Supported with photograph
7620E23501	WasDeveloped andSupported withphotographFriction Ridge Detail	<u>Was</u> Developed and Supported with photograph Friction Ridge Detail	Friction Ridge Detail <u>Was</u> Developed and Supported with photograph Friction Ridge Detail	Was Developed and Supported with photograph Friction Ridge Detail
7620E23501 3618T23501	WasDeveloped andSupported withphotographFriction Ridge DetailWasDeveloped and	WasDeveloped andSupported withphotographFriction Ridge DetailWasDeveloped and	Friction Ridge Detail <u>Was</u> Developed and Supported with photograph Friction Ridge Detail <u>Was</u> Developed and	Was Developed and Supported with photograph Friction Ridge Detail Was Developed and
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2545725501	Supported with	Supported with	Supported with	Supported with
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8908Z23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
0900225501	Supported with	Supported with	Supported with	Supported with
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9862V23501	Was Developed and	Was Developed and	Was Developed and	Was Developed and
9002725501	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph

<u>Totals</u>

ltem #	ltem #1	Item #2	Item #3	ltem #4
Assigned Values	Friction Ridge Detail <u>Was</u> Developed and Supported with photograph			
Consistent Responses	73	73	73	72
Inconsistent Responses	0	0	0	1
Percentage of Consistent Reponses	100%	100%	100%	99%

Participant's Additional Comments

Test Code	Comments
9073N23501	Multiple areas of ridge detail were observed on Item 2, however only one was considered of value
50751125501	and was photographed.
5288P23501	The files I had were JPEG and TIFF unfortunately they were to big even when I tried compressing
5266P25501	them so I converted them into pdf files.
	Item #1 had treatments: Pre treat, superglue & BY40 dye.
	Item #2 had treatments: Pre treat, superglue, magna powder & BY40 dye.
2985L23501	Item #3 had treatments: Pre treat, white powder suspension & solvent black 3.
	Item #4 had treatments: Pre treat, DFO & Acid Black 1.
	ITEM #4 HAD TWO MARKS DEVELOPED AND THE OTHER THREE HAD ONE MARK DEVELOPED.
9246Q23501	Two impressions were developed on item 4.



5243M23501	Item 4 had 2 areas of friction ridge (laten prints) developed.
2697M23501	Item 1 had a lot of overlays and friction ridge detail, took picture on the one latent that seemed to be placed there intentionally. Two latents developed on item 4.
7620E23501	Latent prints on the non-porous items are easily visible with the naked eye and oblique lighting. Test items are not wiped down enough before the test print is placed; two items had detectable smudges/swipes or small areas of friction ridge detail (In addition to the clear test prints).
3618T23501	There were two latent prints found on item 4
702R23501	Item #1 was lifted and photographed, Item #2 was lifted, Item #3 was lifted, Item #4 was photographed.
2179S23501	 Item 1 impression disclosed at Visual exam using fluorescent crime-lite (blue 472nm) Item 2 - superglue fuming followed by Black Magnetic Powder and then Gel Lift. Also disclosed after superglue fuming 4 - 5 x fragmentary impressions around the neck of the bottle and on the bottle top. Recorded but not submitted as test results. Item 3 superglue fuming + BY40 dye-stain + fluorescent exam using Blue 472nm crime-lite. Item 4 impressions disclosed using Indandione process. All photographs are recorded at 1:3 ratio, and can be printed at 1:1. Minor adjustments / enhancements are made to invert change to black & white for fingerprint comparison purposes.
8790E23501	 Item 1 - mark did not lift well, re-lift was taken which did not show improvement, mark was still clearly visible and was therefore re-photographed. It is the original visible mark before powder enhancement and then the photograph following Black Powder Suspension and 2 x lift attempts that have been attached was unable to attach images of lift attempts. Item 4 - both images attached showing development with Indandione the followed with Ninhydrin. Indandione performed better on this occasion. Images of original marks with light enhancement and then after development are attached for Items 1 to 3.
8572T23501	Item # 2 (hand sanitizer) - bottle lid was slightly ajar within box and some of the fluid had leaked out; this was kept in mind during assessment/treatment for potential contamination fx. This item was also found to have +ve findings (to varying degrees)at every stage of processing. Item # 3 had very distinct differences in FRD appearance/characteristics, particularly during powdering, so item was considered for additional tests not normally utilized for a routine Volume Crime type. Item # 4 had a distinct contaminant visible with light sources (but no FRD) and which became more evident after chemical treatment; again, as the two fingermarks on this item were notably different and the contaminant very obvious, additional exams were considered for this item out with what would be usual for Volume Crime. Had this been a Major Crime, physical developer may have been considered but this was not the case and the item also did not appear to have been wetted.
9206123501	On item 4, two prints were developed. I submitted only the DFO photos of each print developed. I have additional photos of the additional development with the use of Ninhydrin. The test did not allow me to submit the additional photos of Ninhydrin due to only allowing two photos to be submitted for each item. Unable to show the multi-level processing on that item.
6176X23501	We considered as "friction ridge detail", all the papillary fragments found on the items and not only the usable fingermarks.
9862V23501	For item#4 two more fingerprints (light fragments) were developed on the paper bag. We can't upload the images (form limited to 2 images).



Manufacturer's Additional Observations

Based upon a review of the submitted responses, the following observations were noted:

1. There are no additional observations.

Authorized by:Jon Byrd, CEODate of Issue:April 28, 2023

