

Ron Smith & Associates, Inc.

Testing Division

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Summary Report

CS Latent Print Processing Proficiency Test #21620LPP

Issued: October 4, 2021

On July 12, 2021, Ron Smith and Associates, Inc. (RS&A) shipped the CS Latent Print Processing Proficiency Test #21620LPP. Participants were required to submit their responses no later than August 23, 2021 in order for them to be included in this summary report.

A total of 60 tests were ordered and shipped, with 45 participants returning their responses. **This summary report is based on 135 individual responses (45 participants returning 3 responses each).** The test included three 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 analysts 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 **was** Developed" or "Friction Ridge Detail **was not** 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 **was not** Developed".

RS&A strives to maintain the confidentiality of all of 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 testing@ronsmithandassociates.com or by calling toll free at 1-866-832-6772.

Appendix 1

Test Manufacturer's Information **CS Latent Print Processing Proficiency Test #21620LPP**

This proficiency test consisted of three items labeled as Item #1 (Knife), Item #2 (Ziplock) and Item #3 (Binder Clip). The items were similar to those normally encountered in crime scene latent print processing. 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 – (Knife)	Friction Ridge Detail Was Developed and Supported with Electronically Captured Image
Item #2 – (Ziplock)	Friction Ridge Detail Was Developed and Supported with Electronically Captured Image
Item #3 – (Binder Clip)	Friction Ridge Detail Was Not Developed

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

Known Matrix used:

Sebaceous Oils

Individual reports will be provided to participants by late September 2021. The final summary report for this test will be posted on the Ron Smith and Associates website by early October 2021 using the following link: <http://www.ronsmithandassociates.com/proficiency/crimesceneprocessing.html>

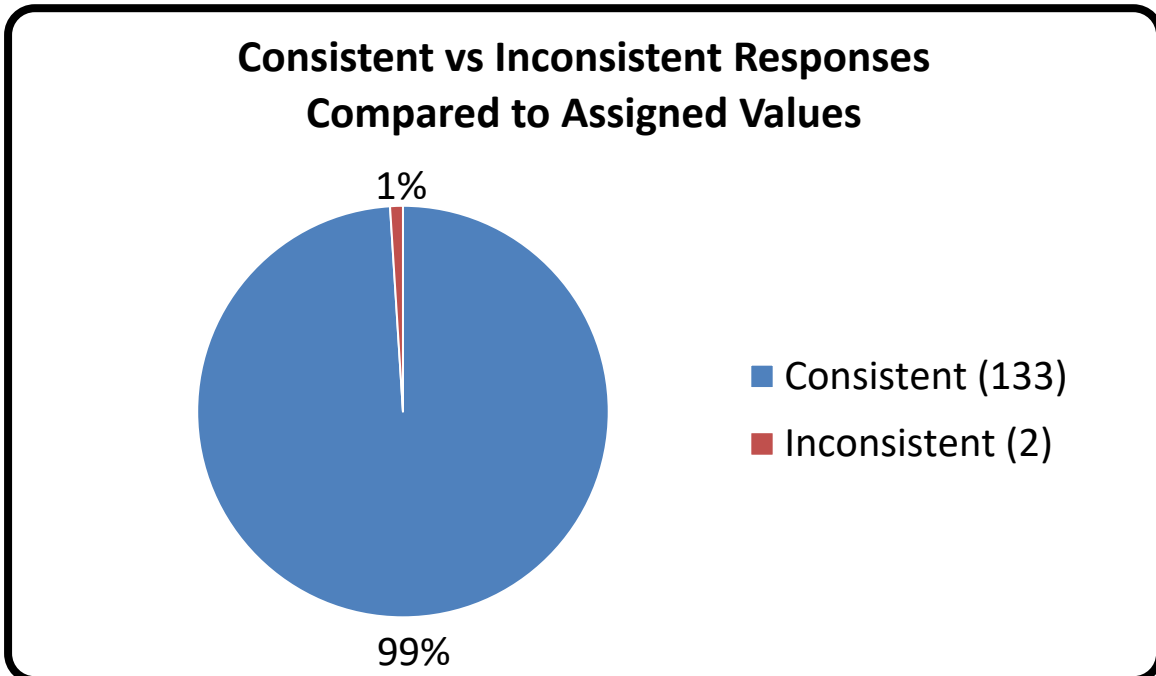
It is recommended to postpone evaluating an individual's performance until after you have received the statistical averages contained in the summary report.

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

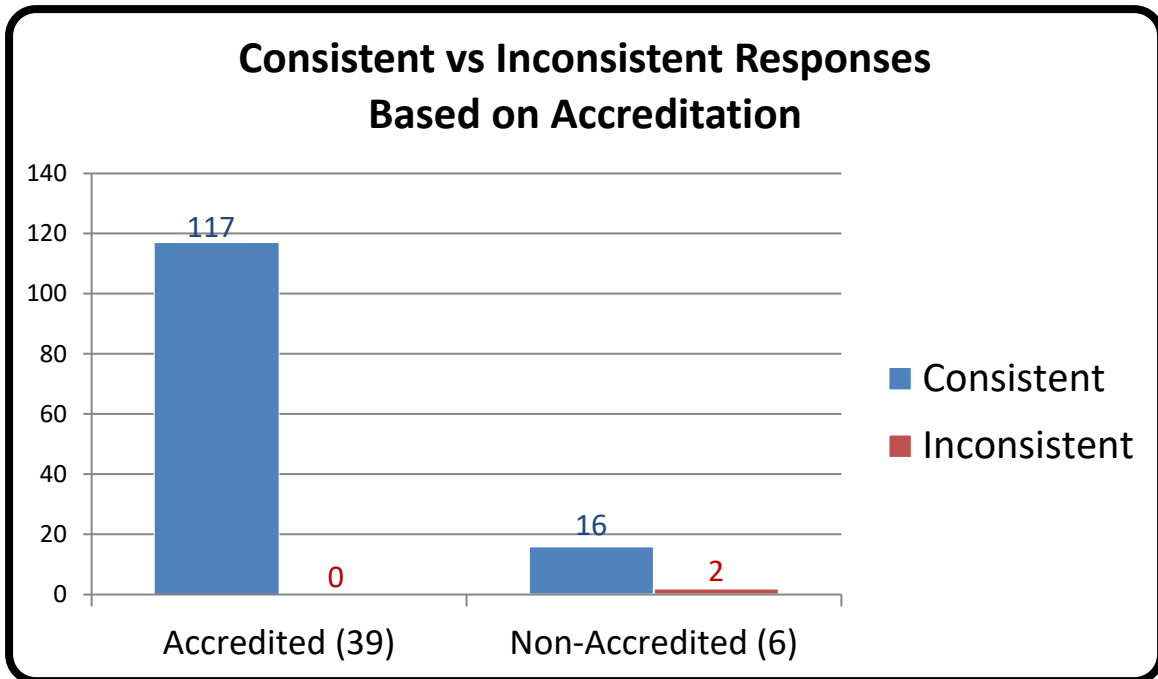
Authorized by: Ron Smith, President

Issue Date: September 15, 2021

Appendix 2



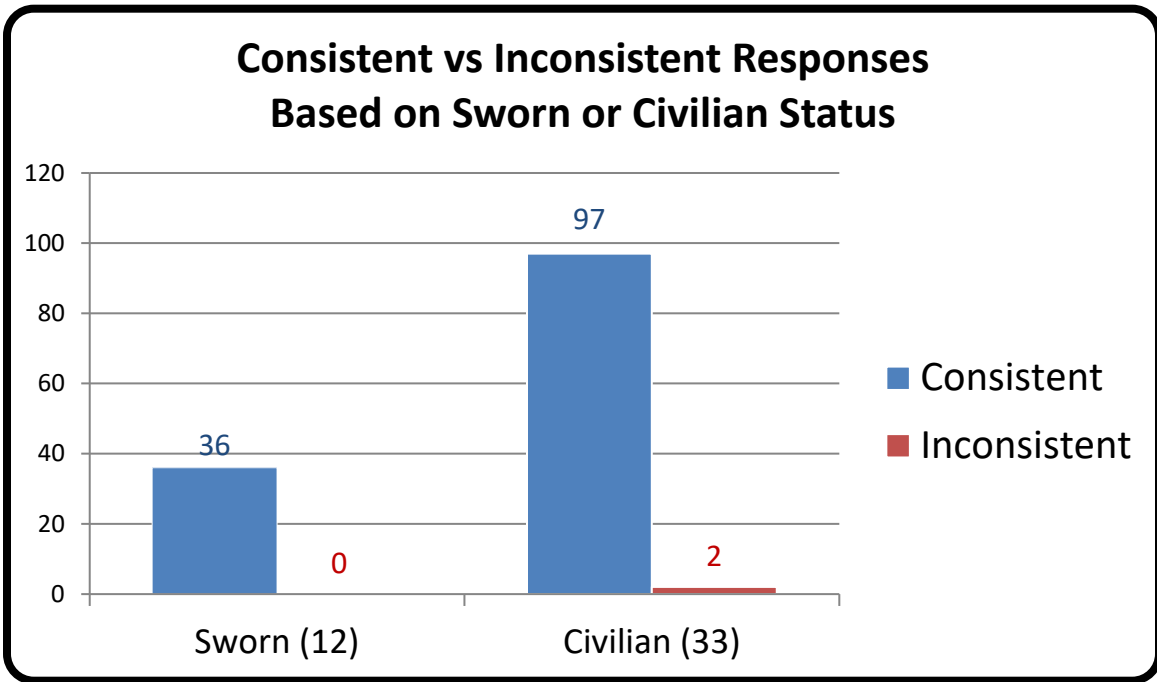
Appendix 3



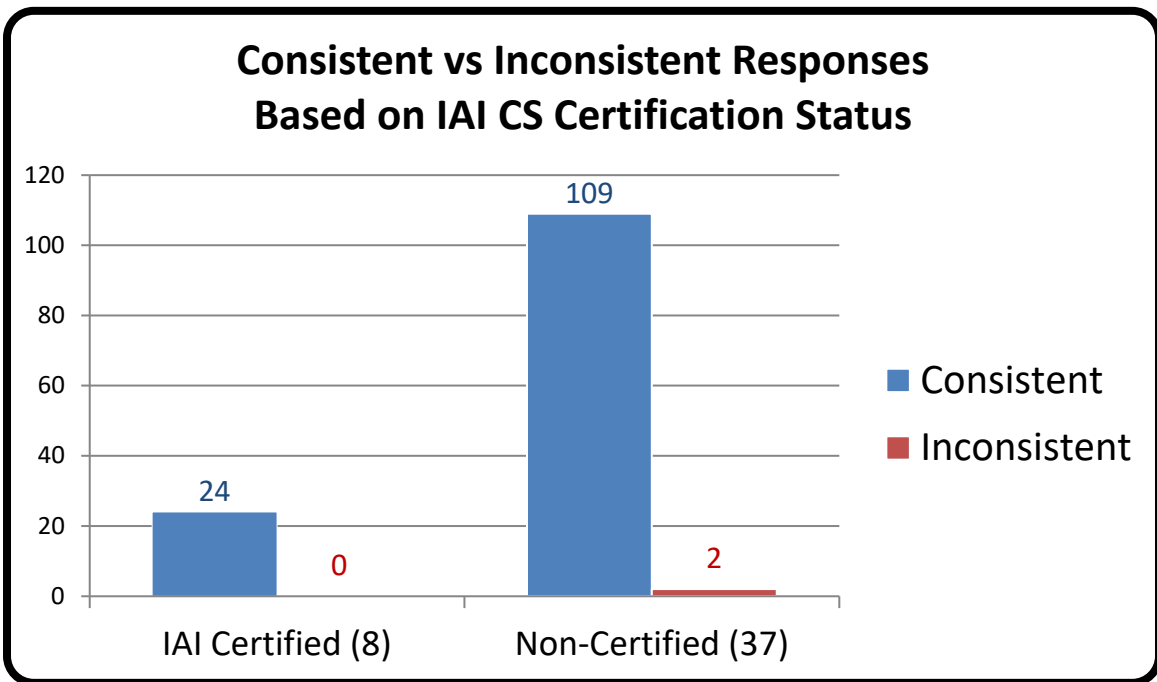
*Numerical values shown are based on **45 participant submissions, each with 3 responses, equaling 135 total responses.**

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

Appendix 4



Appendix 5

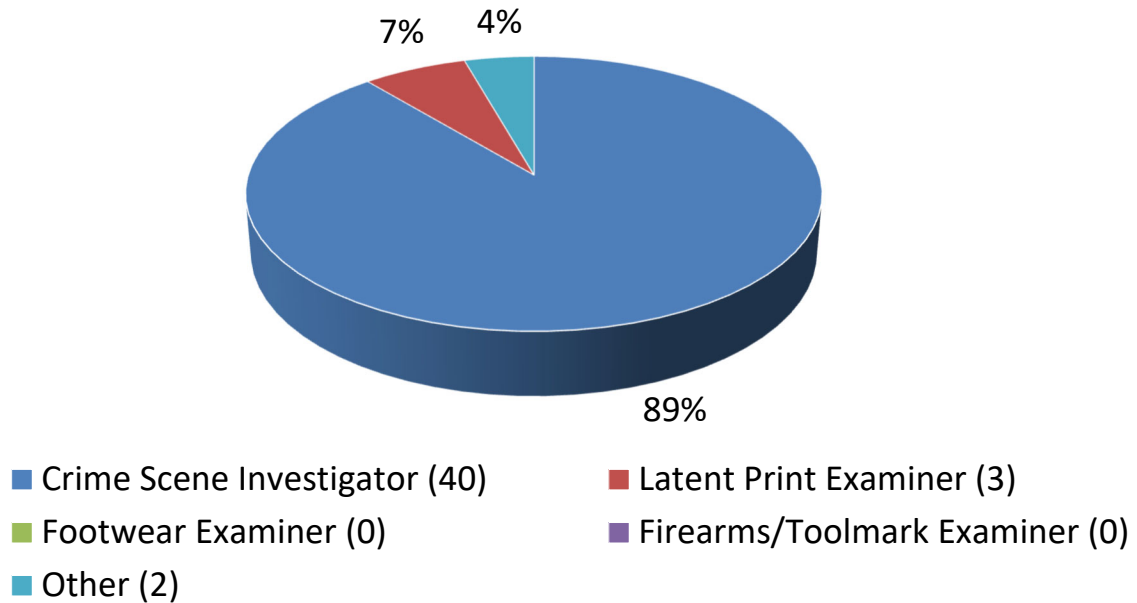


*Numerical values shown are based on 45 participant submissions, each with 3 responses, equaling 135 total responses.

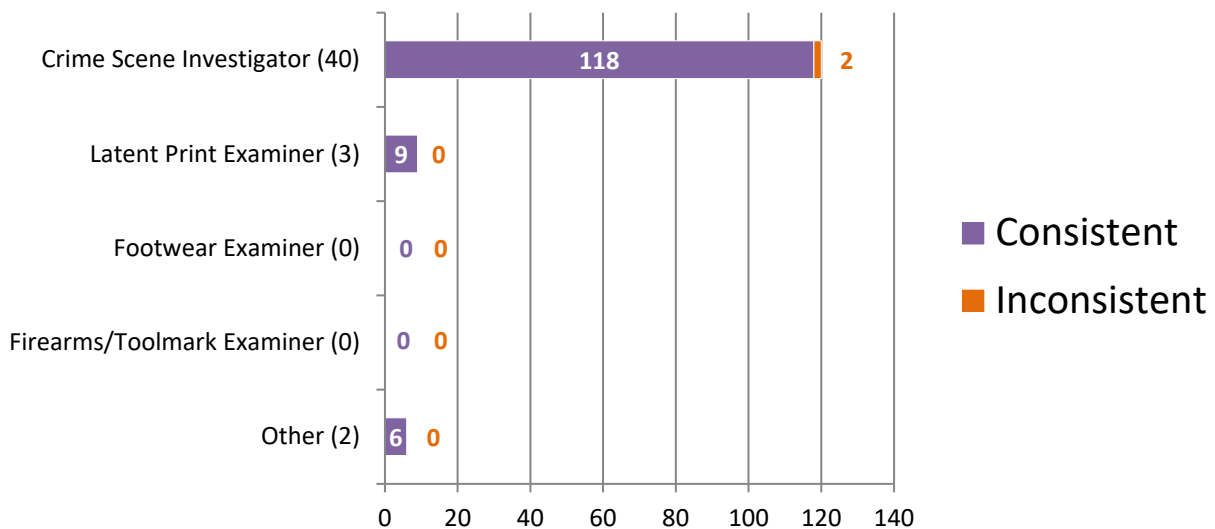
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 6

Percentage of Participants Based on Primary Job Position



Consistent vs Inconsistent Responses Based on Primary Job Position

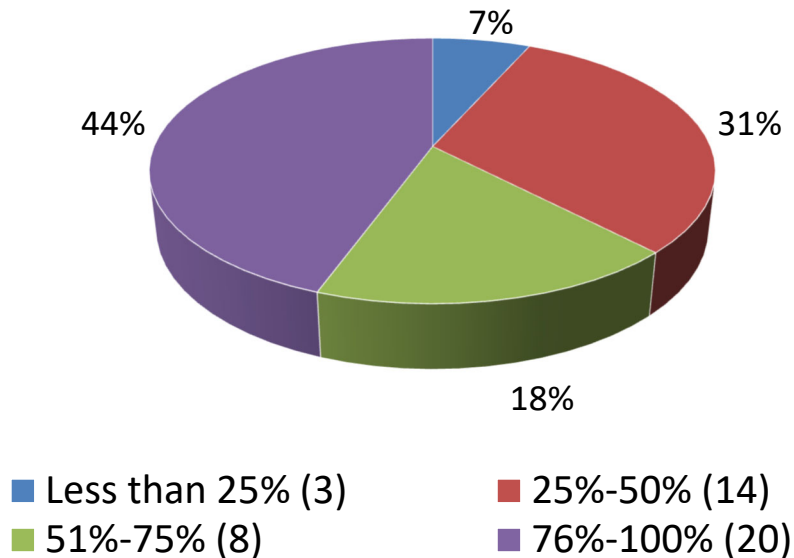


*Numerical values shown are based on 45 participant submissions, each with 3 responses, equaling 135 total responses.

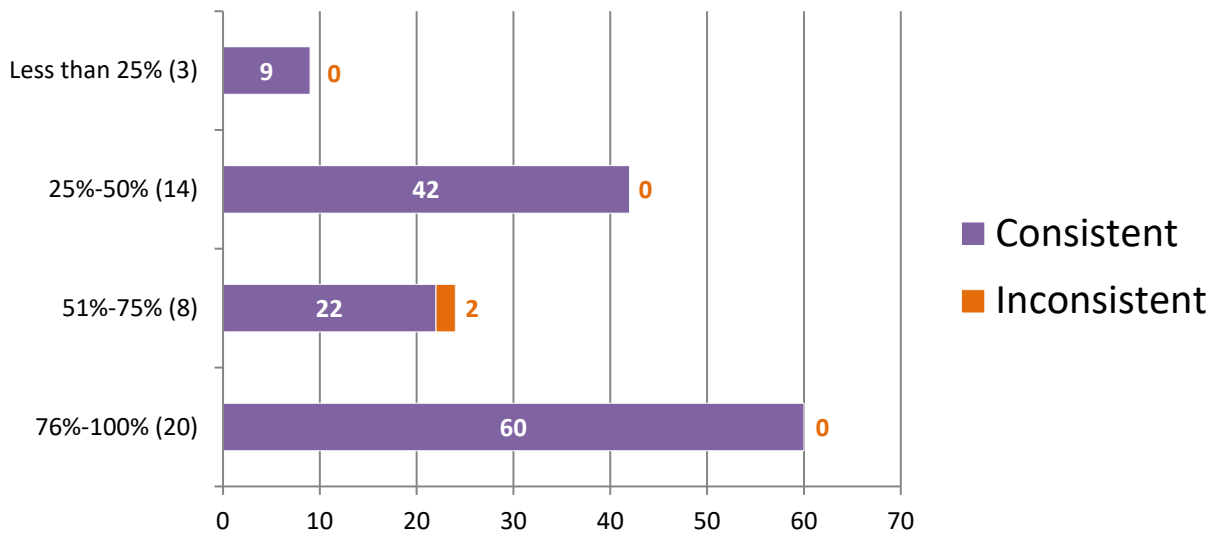
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 7

Percentage of Participants Based on Time Devoted to Processing of Crime Scenes



Consistent vs Inconsistent Responses Based on Time Devoted to Processing of Crime Scenes

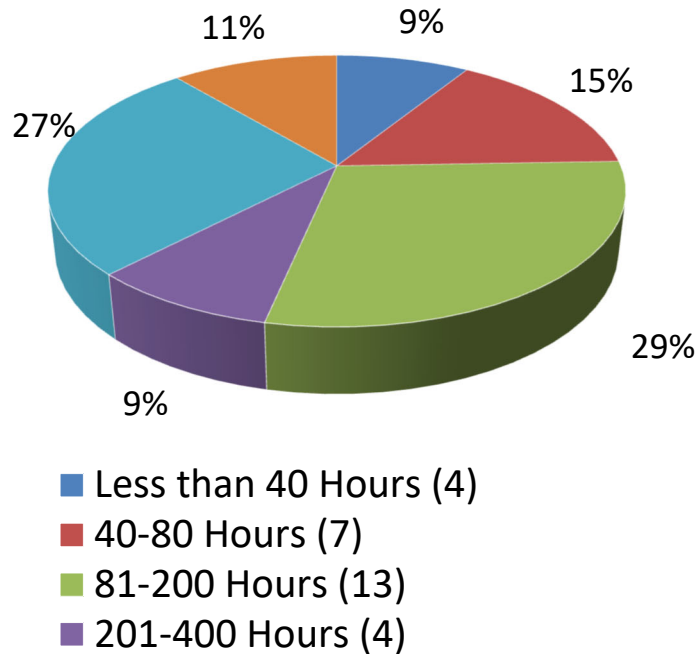


*Numerical values shown are based on **45 participant submissions, each with 3 responses, equaling 135 total responses.**

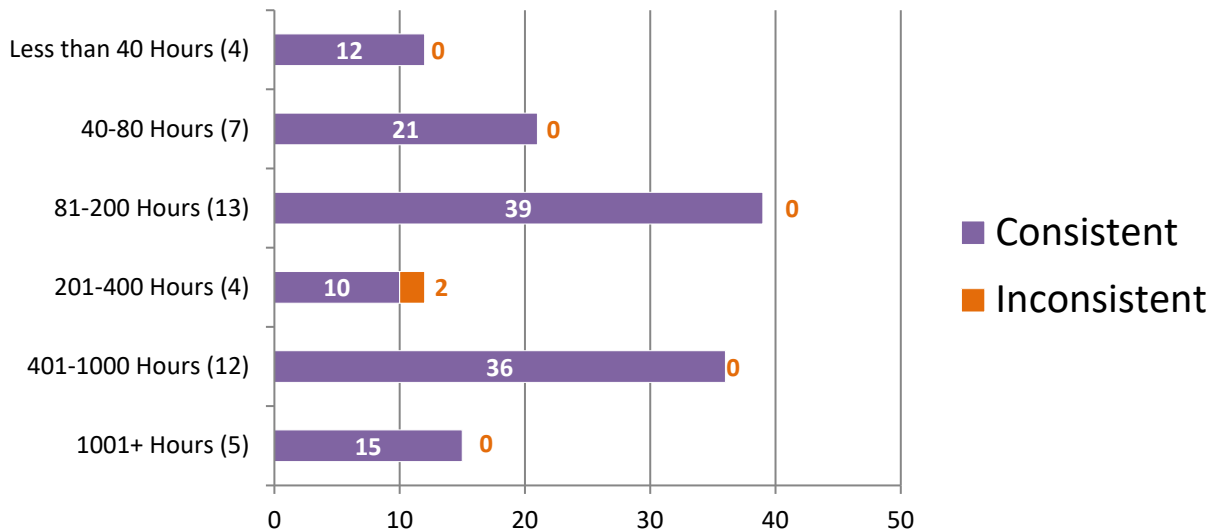
*For further information, please read ***Manufacturer's Additional Observations*** on the final page of this report.

Appendix 8

Percentage of Participants Based on Hours of Formal Crime Scene Training Completed



Consistent vs Inconsistent Responses Based on Hours of Formal Crime Scene Training Completed

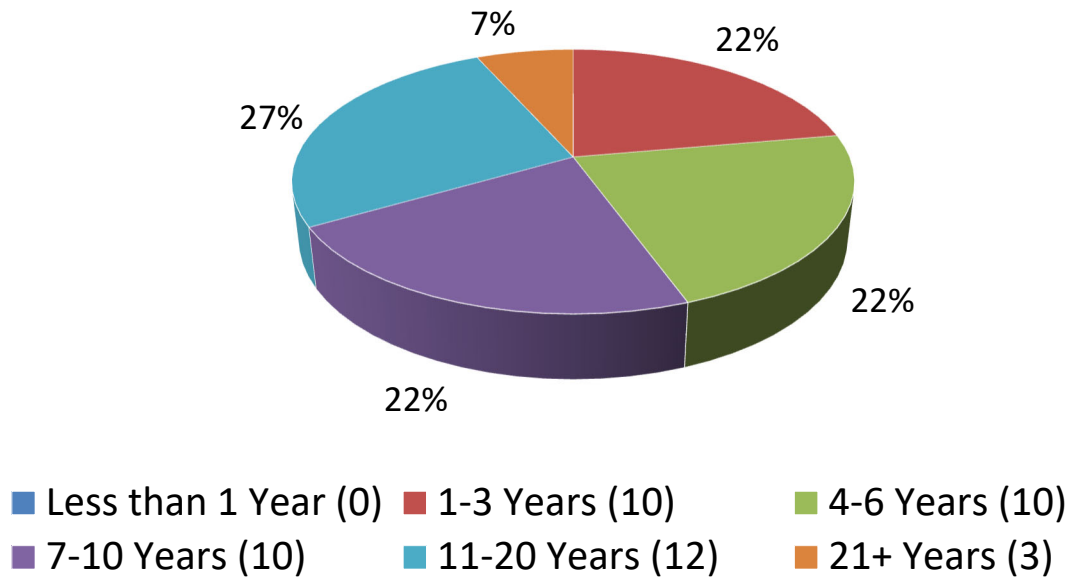


*Numerical values shown are based on **45 participant submissions**, each with **3 responses**, equaling **135 total responses**.

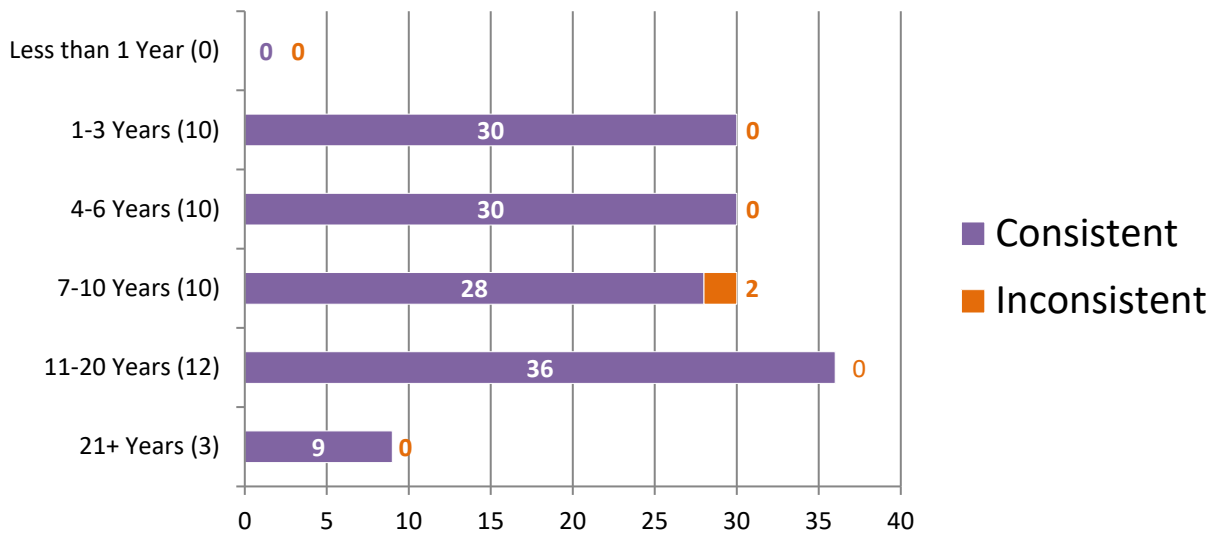
*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

Appendix 9

Percentage of Participants Based on Years of Experience in Crime Scene Processing



Consistent vs Inconsistent Responses Based on Years of Experience in CS Processing

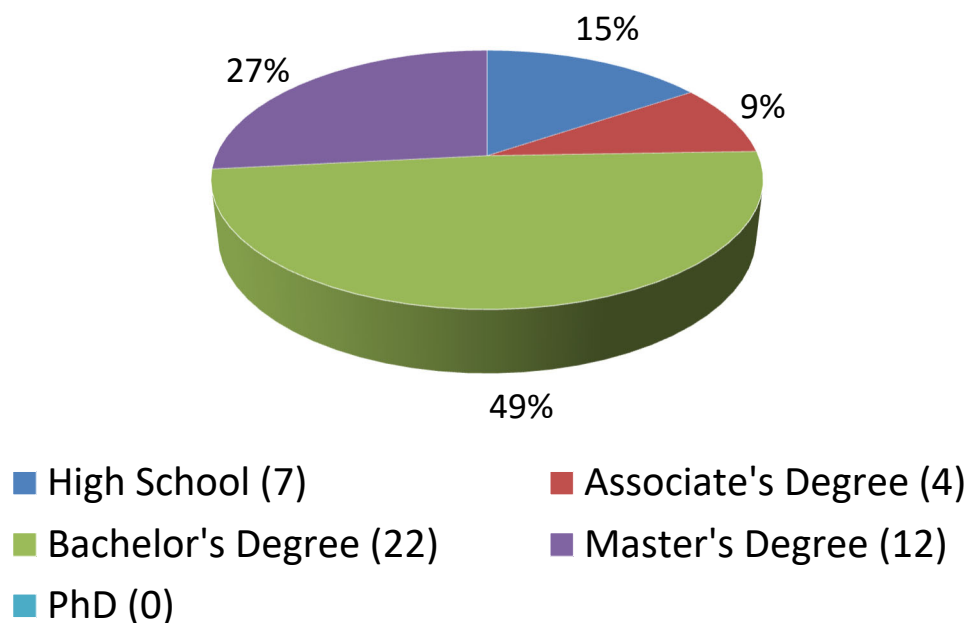


*Numerical values shown are based on **45 participant submissions, each with 3 responses, equaling 135 total responses.**

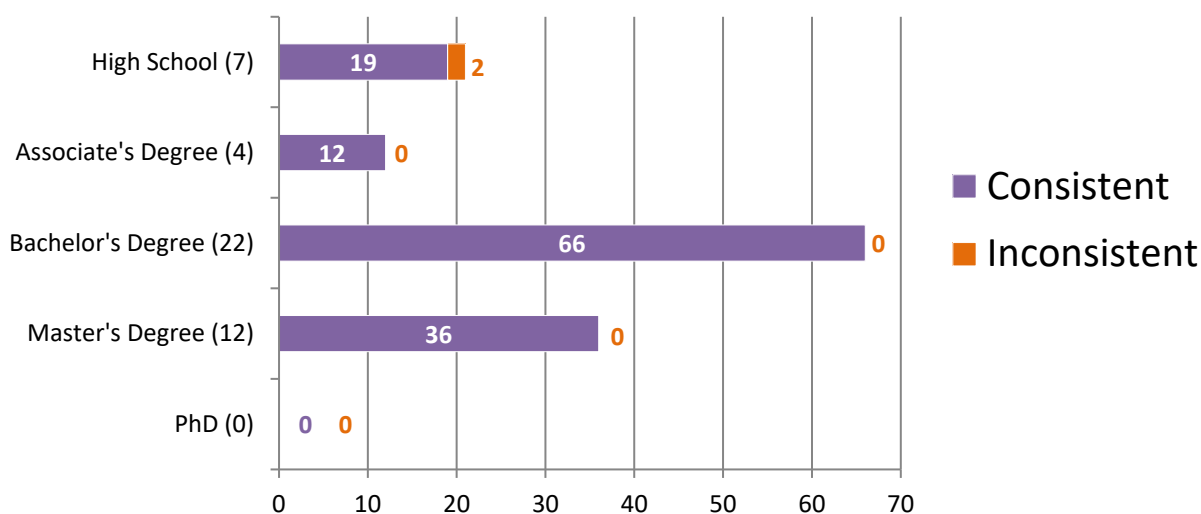
*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

Appendix 10

Percentage of Participants Based on Highest Level of Education Completed



Consistent vs Inconsistent Responses Based on Highest Level of Education Completed

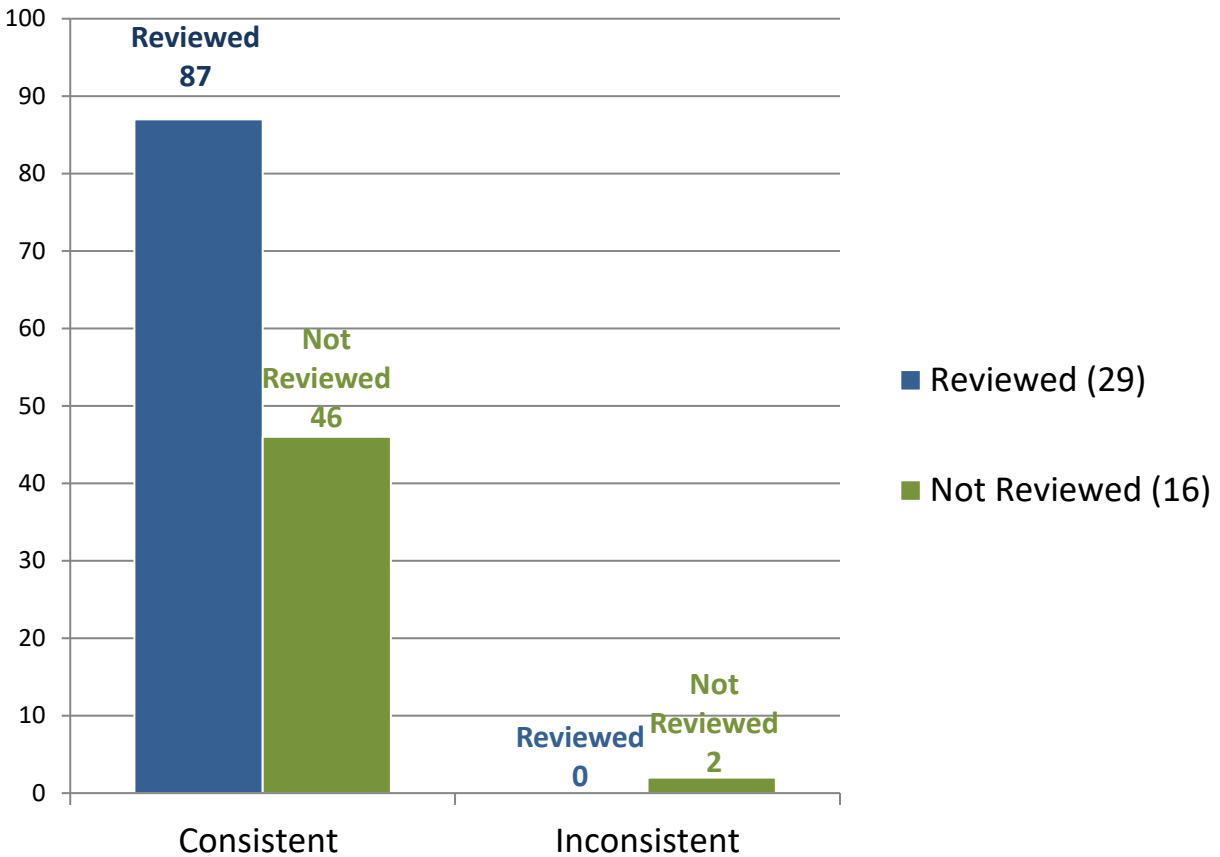


*Numerical values shown are based on **45 participant submissions, each with 3 responses, equaling 135 total responses.**

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

Appendix 11

Consistent vs Inconsistent Responses Based on Review of Original Conclusions by another Analyst Prior to Submission



*Numerical values shown are based on **45 participant submissions, each with 3 responses, equaling 135 total responses.**

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

Appendix 12

Participant Responses Listed by Test Code

Item #	Item #1	Item #2	Item #3	
Assigned Values	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>	
Test Code	8364S21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>
	5510K21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>
	7936X21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>
	5699F21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>
	5524A21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>
	3571W21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>
	2743O21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>
	466K21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>
	2522S21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not Developed</u>

3097X21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
5347S21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
7792J21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
7060K21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
6550X21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
3680D21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
6669P21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
6056E21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
4824H21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
3208L21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
8438Z21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
1487O21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed

	6839M21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	9110C21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	3352R21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	7308M21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	8204S21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	5017E21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	9387M21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	6687A21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	9157Z21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	223E21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail <u>Was Developed</u>
	1850W21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
	9267F21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed

4410V21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
170X21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
283E21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
8267B21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
1625C21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
2523F21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
3409Z21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
4773L21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
9139H21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
1328P21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
4951E21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed
1903B21620LPP	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Developed</u> – See Electronically Captured Image	Friction Ridge Detail <u>Was Not</u> Developed

Totals

Item #	Item #1	Item #2	Item #3
Assigned Values	Friction Ridge Detail Was Developed – See Electronically Captured Image	Friction Ridge Detail Was Developed – See Electronically Captured Image	Friction Ridge Detail Was Not Developed
Consistent Responses	45	44	44
Inconsistent Responses	0	1	1
Percentage of Consistent Responses	100%	99%	99%

Participant's Additional Comments

Test ID	Comments
5510K21620LPP	Is it possible to choose our own Submission Due Date?
2522S21620LPP	Results have been processed to optimize contrast as per our internal policy.
7060K21620LPP	Item 2 had a partial print with ridge detail that was developed after processing. It wasn't of quality but I included a picture of it.
6550X21620LPP	<p>Item#1 - Technician: black powder physical reagent, applied with fiberglass brush, lifted with translucent tape on white card. (Positive to friction ridge development)</p> <p>Item#2 - Technician: black powder physical reagent, applied with fiberglass brush, lifted with white tape on white card. (Positive to friction ridge development)</p> <p>Item#3 - Technician: fluorescent yellow physical reagent, 470nm blue light, orange filter. (Negative to friction ridge development)</p>
4824H21620LPP	One very clear latent print impression was present on each of items #1 and #2. A second, very faint area of ridge detail was present on each of these two items as well. No ridge detail was observed on item #3 at any stage of sequential processing.
3208L21620LPP	One area of possible friction ridge detail was observed, photographed, and lifted from Item #1; one area of possible friction ridge detail was observed, photographed, and lifted from Item #2; no areas of friction ridge detail were observed on Item #3.
8438Z21620LPP	Item 1 is a black handled six-inch long straight pairing knife bearing the words "STAINLESS CHINA". Item 1 was visually inspected, and an area of interest was noted on left side of the blade, near the lettering. Item 1 was super glue fumed. Item 1 was processed for fingerprints using black fingerprint powder. Friction ridge detail was developed. A lift of latent fingerprints was made. Item 1 was then processed for fingerprints using RAM, a fluorescent chemical dye stain mixture, and viewed using an alternate light source.

	<p>Friction ridge detail was developed. A photograph of latent fingerprints was made.</p> <p>Item 2 is a clear plastic zip-top style bag, labeled “Ziploc” and “Stay Fresh”. Item 2 was visually inspected, and an area of interest was noted on front side of the bag, near the lower right corner. Item 2 was super glue fumed. Item 2 was examined using the FSIS-RUVIS system. Friction ridge detail was developed. A photograph of latent fingerprints was made. Item 2 was processed for fingerprints using black magnetic fingerprint powder. Friction ridge detail was developed. A lift of latent fingerprints was made.</p> <p>Item 3 is a black metal binder clip. Item 3 was visually inspected, and no areas of interest were noted. Item 2 was super glue fumed. Item 2 was processed for fingerprints using white fingerprint powder. Friction ridge detail was not developed. Item 1 was processed for fingerprints using RAM, and viewed using an alternate light source. Friction ridge detail was not developed.</p>
7308M21620LPP	Both observed prints were lifted onto latent lift cards.
8204S21620LPP	Ridge Detail was developed on Item 4; however, its value for comparison purposes is questionable.
9387M21620LPP	<p>Item #1- Silver powder used on handle, Black powder used on blade.</p> <p>Item #2 - Black powder used.</p> <p>Item #3 - Silver powder used.</p>
170X21620LPP	NOTE: There were two areas of friction ridges developed on Item #2. Images of both lifts were uploaded.
2523F21620LPP	We only do powder processing. We impound what we have processed for further processing (i.e. chemical) by the Latent Print Unit. If it is a substance that we believe is better for chemical processing we impound item for further lab processing
9139H21620LPP	ITEMS 01 and 02 presented positive results, on the contrary item 03 was negative

Manufacturer’s Additional Observations

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

1. There were only 2 inconsistent responses that could not be supported. These inconsistent responses were from one individual; therefore, informative or meaningful results could not be obtained.

Authorized by: Ron Smith, President
Date of Issue: October 4, 2021