



Latent Print Processing - Varied Surfaces Test No. 22-5190 Summary Report

Each sample pack contained three pieces of simulated crime scene evidence. Participants were asked to process each piece for latent prints and report their findings. Data were returned from 303 participants and are compiled into the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

Manufacturer's Information

Each sample pack consisted of three items of simulated crime scene evidence. Each item was divided into labeled sections or pieces and contained one latent fingerprint. The items consisted of a piece of folded clear polyethylene sheeting (Item 1), a piece of foil striped wrapping paper (Item 2), and a half sheet of blue colored copy paper (Item 3). Participants were asked to process each item for latent fingerprints, utilizing the method(s) deemed most appropriate for the substrate being examined.

SAMPLE PREPARATION-

The nonporous polyethylene sheeting was cleaned with water and a paper towel before the latent print was applied. New, sealed rolls of wrapping paper and sealed packs of copy paper were used for the samples that could not be cleaned. Each item was divided into sections or pieces and labeled A, B, C, and D using a chemical-safe marker or manufactured by a printing process. For each item, either an acid and/or oil enhancer was applied to the individual's finger prior to deposition to assist in the longevity of the print.

SAMPLE PACK ASSEMBLY-

Each item was packed into its pre-labeled item envelope or heat seal packet with necessary protective materials. Following predistribution testing, each item envelope was sealed with evidence tape and initialed with "CTS" while each heat seal was closed using a heat sealer. These were then placed into a sample pack box with bubble wrap and sealed with packaging tape.

VERIFICATION-

A random selection of prepared test items was processed in-house for latent prints to verify their durability and proper latent print location. Predistribution examiners were able to recover ridge detail in the expected section on all three items.

<u>Item No.</u>	<u>Test Material</u>	<u>Enhancer</u>	<u>Print Location</u>	<u>Pattern</u>
1	Clear Polyethylene Sheeting	Oil	C	Whorl
2	Wrapping Paper	Acid & Oil	A	Loop
3	Blue Copy Paper	Acid	B	Whorl

Summary Comments

Each sample pack contained three items of evidence to be processed for latent prints: a piece of clear polyethylene sheeting (Item 1), a piece of wrapping paper (Item 2), and a half sheet of blue copy paper (Item 3). Each item was divided into four sections or pieces, which were labeled with the letters A-D. Participants were asked to determine in which of the four sections or pieces of evidence contained a latent print (Refer to the Manufacturer's Information for preparation details).

Due to the tenuous nature of latent fingerprints, it was expected that some participants may not be successful with the recovery of the deposited print on each item. Participants who did not develop a print on an item were therefore not flagged as outliers to the consensus.

Of the 303 responding participants, 254 (83.8%) were able to successfully recover a print in the expected section for all three items. Forty four participants did not recover latent ridge detail on one or more of the items. Three participants did not report for one item. One did not recover latent ridge detail for one item and reported ridge detail located in a section that differed from consensus for another item. Two participants reported ridge detail located in sections that differed from consensus. Results that indicated ridge detail in a section other than that established by the consensus and expected results are marked as outliers.

The following breakdown does not include the participant who reported "Not Tested". For Item 1, 302 of 303 participants (99.7%) developed a print in section "C." One participant recovered no ridge detail. For Item 2, 301 of 303 participants (99.3%) reported ridge detail in section "A." Two participants recovered no ridge detail. For Item 3, 254 of 302 participants (84.1%) recovered ridge detail in section "B" of the paper. Forty three participants recovered no ridge detail. Two participants reported ridge detail in section "C", one participant reported ridge detail in section "A" and were marked as outliers.

A visual examination was the predominant starting point of the latent print development process for participants with all three items. Photography was the preferred preservation method, although some participants also elected to lift recovered ridge detail on Items 1 and 2, and scan ridge detail on Item 3.

For the clear polyethylene sheeting (Item 1), cyanoacrylate fuming (reported 252 times) was the prevalent method of development, also commonly used with a follow-up of a dye stain (163) or powder dusting (152) to enhance recovered ridge detail. An alternate light source (122) was also commonly used in conjunction with these processes as needed to visualize ridge detail. For the wrapping paper (Item 2), cyanoacrylate fuming (reported 235 times) was the most common early method of development, followed by powder dusting (243) to enhance recovered ridge detail. An alternate light source (110) was also commonly used in conjunction with these processes as needed to visualize ridge detail. Finally, the blue copy paper (Item 3) was processed using a variety of porous development procedures, most commonly ninhydrin (reported 246 times). This was used either alone or in combination with another porous method, such as 1,2-Indanedione (80), DFO (68), or Physical Developer (43). An alternate light source (96) was also commonly used in conjunction with these processes as needed to visualize ridge detail.

The First Level Detail section allows participants to report the pattern type(s) of each recovered latent print. Some participants do not perform print pattern analysis in their routine casework and reported "N/A" to the pattern type question; therefore, no consensus is established for any of the items. For those who identified pattern types, the most common responses for each item were: Item 1 - Whorl; Item 2 - Loop; Item 3 - Whorl. The most frequent response for each item corresponds to the expected results for pattern reporting.

Print Location

TABLE 1 - Item 1

WebCode	Location	WebCode	Location	WebCode	Location
229XB6	C	3XAVQ2	C	7Y7RFK	C
233UBY	C	3YETTG	C	88A9JW	C
237988	C	3ZDTXN	C	88FCK3	C
24VJZL	C	47XDFU	C	88WLFN	C
29PMKD	C	4CHH33	C	8AHJFZ	C
29QCRV	C	4EQL2K	C	8U9TH2	C
2HZMDT	C	4NTTUY	C	928CHB	C
2KG724	C	68PPVU	C	96MZ39	C
2KZ4HA	C	69YJQT	C	9EPAEY	C
2QPLX7	C	6AAKB8	C	9EUL3V	C
2RJXU	C	6FGUX3	C	9J8DHN	C
2TU9BB	C	6GA3PJ	C	9KUBFT	C
3242WQ	C	6NL9DA	C	9KXN8W	C
34QML8	C	6PMYNX	C	9KZBNA	C
3AEBHY	C	6QWYQK	C	9LTAWG	C
3AKBRE	C	6ZMHAY	C	9M7Y4Z	C
3BD9YL	C	783GLP	C	9TX2DQ	C
3ER789	C	7BFCU8	C	9U29EW	C
3KYFU6	C	7DQ6Y8	C	9VHXT6	C
3LU43R	C	7QCPBN	C	9VKM39	C
3MM3BY	C	7QGUYD	C	9WTTJ3	C
3N2BJY	C	7R6DW6	C	ABQ7BJ	C
3PCD4C	C	7TFH89	C	ABRWL9	C
3RZMFY	C	7XFJFH	C	AQLLJQ	C

TABLE 1 - Item 1

WebCode	Location	WebCode	Location	WebCode	Location
ARXHNV	C	DEXTGK	C	FJHQZR	C
AT8GQQ	C	DG673R	C	FJJRJ6	C
ATR9UA	C	DHYULN	C	FKUA2N	C
AVC3M4	C	DJRTUU	C	FM76MG	C
AVETV8	C	DN4VKW	C	FNWCLJ	C
AZAHGK	C	DQCVWQ	C	FPNDLF	C
B79B4K	C	DVHT2N	C	GA4HJP	C
BT46XT	C	E3YJ6V	C	GFF29J	C
BUYVWU	C	EAGUEP	C	GJ3QG3	C
BVTJDQ	C	ELWM6K	C	GKCVUQ	C
BWKTCX	C	ELWZBD	C	GKWCCE	C
BX4ATL	C	EQ678J	C	GLNKAW	C
C6EX6Y	C	EVF4QZ	C	GMZAGF	C
CD4RUG	C	F4P3LM	C	GNQK89	C
CEHCMR	C	F4QTWB	C	GPHHFF	C
CEHE8P	C	F6ZZY4	C	GUCF7R	C
CK8PNF	C	F8ULVG	C	GV6DEX	C
CNRL8Y	C	FB97VB	C	GZHCQR	C
CQDL8E	C	FBAW7Y	C	H34BNL	C
CWLR4L	C	FBPHDF	C	H82MUK	C
CZXR4J	C	FBR6WE	C	H82PBC	C
D36EBV	C	FCFPDJ	C	H84CUB	C
D4FA2U	C	FENQNH	C	HEK38P	C
D8UWML	C	FENQUJ	C	HJRLCA	C
D9R8KA	C	FFLZM2	C	HNPZ47	C

TABLE 1 - Item 1

WebCode	Location	WebCode	Location	WebCode	Location
HPJNKF	C	LFX2TA	C	NQEFWN	C
HQBMWT	C	LRH4JG	C	NY8NHE	C
HR2WJF	C	LRVRMU	C	P33NBG	C
HTY8CX	C	LTB2RN	C	P3H67A	C
HU9EFQ	C	LUZE8L	C	PE2FZU	C
HV8D36	C	LYCBXG	C	PEVAD6	C
HWJ383	C	M47KPU	C	PG4DBM	C
HWMQPG	None	M8GRYL	C	PGLBG8	C
HY8L6U	C	MFHRNF	C	PHY3BA	C
HY9CFH	C	MG93CM	C	PK79WB	C
HZJE43	C	MH6DCW	C	PLWKPP	C
J7KVCM	C	ML8A4C	C	PREY6F	C
J8WU6B	C	MRU3C6	C	PVHMQX	C
J9U3DU	C	MUE8QU	C	Q3ZH67	C
JVZQUP	C	MVPZDG	C	Q4U4YX	C
K7K8DN	C	MVV3EN	C	Q9KGXZ	C
KDVHFN	C	MXZTHH	C	QADE77	C
KERUEW	C	MYQ2LR	C	QC3QV4	C
KJ4X8K	C	MZZ9MY	C	QEQCGZ	C
KKZKFH	C	N2VWXG	C	QFNKMY	C
KRZWH7	C	NCCQ39	C	QM9GVU	C
KUN7UT	C	NEKY8M	C	QQ8RQU	C
KWCU2L	C	NEMNE6	C	QX8CQ4	C
KXNF3A	C	NG3BXC	C	R4RPA4	C
KXQZUJ	C	NHYJ7V	C	R6FAUD	C

TABLE 1 - Item 1

WebCode	Location	WebCode	Location	WebCode	Location
R8AXCA	C	UR4J7W	C	WWTXQN	C
RAU26Z	C	UR87J4	C	XBUMN9	C
RBQC6A	C	UT2RCU	C	XTQCFW	C
RDFMXN	C	UT4GJD	C	XU3Y4C	C
RE9L7U	C	UUBYFM	C	XVFLMC	C
REPM2A	C	UXDV6H	C	XYEVXE	C
RGEYUN	C	UYMXVM	C	Y2DQW8	C
RKCM9A	C	VBCBFC	C	Y8MZYA	C
RKFZZC	C	VUBCHA	C	YBKLL7	C
RNUML4	C	VV3AUM	C	YEN4CM	C
RUK2BB	C	VVWAL7	C	YFHP8Y	C
T2DVG9	C	W64ZA3	C	YGBMDK	C
TA9QLX	C	W8C47Z	C	YH6M44	C
TARBUC	C	WAJRZW	C	YJFHU3	C
TAUZ2U	C	WDG9EB	C	YJG86Q	C
TH6JXY	C	WDX3FK	C	YQXL4Q	C
TRVZVF	C	WKZE8C	C	YT8NX2	C
TXZY76	C	WLQPWJ	C	YUZL79	C
TZKVQP	C	WLTE32	C	YVCEZB	C
U6V4RT	C	WLU3NL	C	YWPXYL	C
U9TUQD	C	WPUDJL	C	Z7D2R8	C
UEGALC	C	WQ4FAQ	C	ZELVMZ	C
UNPXK4	C	WU69H4	C	ZEZ93W	C
UPX4RD	C	WVG44V	C	ZFDTU7	C
UR3TV8	C	WWEE2J	C	ZG36MK	C

TABLE 1 - Item 1

WebCode	Location	WebCode	Location	WebCode	Location
ZH36P7	C				
ZHYRX4	C				
ZNQPV8	C				
ZQBPYU	C				
ZR4M8Z	C				
ZWG9BZ	C				

Item 1 - Location Response Summary

Location	Total	Total Participants: 303
A	0	*NOTE: Tallies may not add up to the total number of participants, if a participant did not report a response.
B	0	
C	302	
D	0	
None	1	
Not Tested	0	

TABLE 1 - Item 2

WebCode	Location	WebCode	Location	WebCode	Location
229XB6	A	3YETTG	A	88FCK3	A
233UBY	A	3ZDTXN	A	88WLFN	A
237988	A	47XDFU	A	8AHJFZ	A
24VJZL	A	4CHH33	A	8U9TH2	A
29PMKD	A	4EQL2K	A	928CHB	A
29QCRV	A	4NTTUY	A	96MZ39	A
2HZMDT	A	68PPVU	A	9EPAEY	A
2KG724	A	69YJQT	A	9EUL3V	A
2KZ4HA	A	6AAKB8	A	9J8DHN	A
2QPLX7	A	6FGUX3	A	9KUBFT	A
2RJBXU	A	6GA3PJ	A	9KXN8W	A
2TU9BB	A	6NL9DA	A	9KZBNA	A
3242WQ	A	6PMYNX	A	9LTAWG	A
34QML8	A	6QWYQK	A	9M7Y4Z	A
3AEBHY	A	6ZMHAY	A	9TX2DQ	A
3AKBRE	A	783GLP	A	9U29EW	A
3BD9YL	A	7BFCU8	A	9VHXT6	A
3ER789	A	7DQ6Y8	A	9VKM39	A
3KYFU6	A	7QCPBN	A	9WTTJ3	A
3LU43R	A	7QGUYD	A	ABQ7BJ	A
3MM3BY	A	7R6DW6	A	ABRWL9	A
3N2BJY	A	7TFH89	A	AQLLJQ	A
3PCD4C	A	7XFJFH	A	ARXHNV	A
3RZMFY	A	7Y7RFK	A	AT8GQQ	A
3XAVQ2	A	88A9JW	A	ATR9UA	A

TABLE 1 - Item 2

WebCode	Location	WebCode	Location	WebCode	Location
AVC3M4	A	DJRTUU	A	FM76MG	A
AVETV8	A	DN4VKW	A	FNWCLJ	A
AZAHGK	A	DQCVWQ	A	FPNDLF	A
B79B4K	A	DVHT2N	A	GA4HJP	A
BT46XT	A	E3YJ6V	A	GFF29J	A
BUYVVU	A	EAGUEP	A	GJ3QG3	A
BVTJDQ	A	ELWM6K	A	GKCVUQ	A
BWKTCX	A	ELWZBD	A	GKWCCE	A
BX4ATL	A	EQ678J	A	GLNKAW	A
C6EX6Y	A	EVF4QZ	A	GMZAGF	A
CD4RUG	A	F4P3LM	A	GNQK89	A
CEHCMR	A	F4QTWB	A	GPHHFF	A
CEHE8P	A	F6ZZY4	A	GUCF7R	A
CK8PNF	A	F8ULVG	A	GV6DEX	A
CNRL8Y	A	FB97VB	A	GZHCQR	A
CQDL8E	A	FBAW7Y	A	H34BNL	A
CWLR4L	A	FBPHDF	A	H82MUK	A
CZXR4J	A	FBR6WE	A	H82PBC	A
D36EBV	A	FCFPDJ	A	H84CUB	A
D4FA2U	A	FENQNH	A	HEK38P	A
D8UWML	A	FENQUJ	A	HJRLCA	A
D9R8KA	A	FFLZM2	A	HNPZ47	A
DEXTGK	A	FJHQZR	A	HPJNKF	A
DG673R	A	FJJRJ6	A	HQBMWT	A
DHYULN	A	FKUA2N	A	HR2WJF	A

TABLE 1 - Item 2

WebCode	Location	WebCode	Location	WebCode	Location
HTY8CX	A	LTB2RN	A	P3H67A	A
HU9EFQ	A	LUZE8L	A	PE2FZU	A
HV8D36	A	LYCBXG	A	PEVAD6	A
HWJ383	A	M47KPU	A	PG4DBM	A
HWMQPG	None	M8GRYL	A	PGLBG8	A
HY8L6U	A	MFHRNF	A	PHY3BA	A
HY9CFH	A	MG93CM	A	PK79WB	A
HZJE43	A	MH6DCW	A	PLWKPP	A
J7KVCM	A	ML8A4C	A	PREY6F	A
J8WU6B	A	MRU3C6	A	PVHMQX	A
J9U3DU	A	MUE8QU	A	Q3ZH67	A
JVZQUP	A	MVPZDG	A	Q4U4YX	A
K7K8DN	A	MW3EN	A	Q9KGXZ	A
KDVHFN	A	MXZTHH	A	QADE77	A
KERUEW	A	MYQ2LR	A	QC3QV4	A
KJ4X8K	A	MZZ9MY	A	QEQCGZ	A
KKZKFH	A	N2VXG	A	QFNKMY	A
KRZWH7	A	NCCQ39	A	QM9GVU	A
KUN7UT	A	NEKY8M	A	QQ8RQU	A
KWCU2L	A	NEMNE6	A	QX8CQ4	A
KXNF3A	A	NG3BXC	A	R4RPA4	A
KXQZUJ	A	NHYJ7V	A	R6FAUD	A
LFX2TA	A	NQEFWN	A	R8AXCA	A
LRH4JG	A	NY8NHE	A	RAU26Z	A
LRVRMU	A	P33NBG	A	RBQC6A	A

TABLE 1 - Item 2

WebCode	Location	WebCode	Location	WebCode	Location
RDFMXN	A	UT4GJD	A	XU3Y4C	A
RE9L7U	A	UUBYFM	A	XVFLMC	A
REPM2A	A	UXDV6H	A	XYEVXE	A
RGEYUN	A	UYMXVM	A	Y2DQW8	A
RKCM9A	A	VBCBFC	A	Y8MZYA	A
RKFZZC	A	VUBCHA	A	YBKLL7	None
RNUML4	A	VV3AUM	A	YEN4CM	A
RUK2BB	A	VWVAL7	A	YFHP8Y	A
T2DVG9	A	W64ZA3	A	YGBMDK	A
TA9QLX	A	W8C47Z	A	YH6M44	A
TARBUC	A	WAJRZW	A	YJFHU3	A
TAUZ2U	A	WDG9EB	A	YJG86Q	A
TH6JXY	A	WDX3FK	A	YQXL4Q	A
TRVZVF	A	WKZE8C	A	YT8NX2	A
TXZY76	A	WLQPWJ	A	YUZL79	A
TZKVQP	A	WLTE32	A	YVCEZB	A
U6V4RT	A	WLU3NL	A	YWPXYL	A
U9TUQD	A	WPUDJL	A	Z7D2R8	A
UEGALC	A	WQ4FAQ	A	ZELVMZ	A
UNPXK4	A	WU69H4	A	ZEZ93W	A
UPX4RD	A	WVG44V	A	ZFDTU7	A
UR3TV8	A	WWEE2J	A	ZG36MK	A
UR4J7W	A	WWTXQN	A	ZH36P7	A
UR87J4	A	XBUMN9	A	ZHYRX4	A
UT2RCU	A	XTQCFW	A	ZNQPV8	A

TABLE 1 - Item 2

WebCode	Location	WebCode	Location	WebCode	Location
ZQBPYU	A				
ZR4M8Z	A				
ZWG9BZ	A				

Item 2 - Location Response Summary

Location	Total	Total Participants: 303
A	301	*NOTE: Tallies may not add up to the total number of participants, if a participant did not report a response.
B	0	
C	0	
D	0	
None	2	
Not Tested	0	

TABLE 1 - Item 3

WebCode	Location	WebCode	Location	WebCode	Location
229XB6	B	3YETTG	B	88FCK3	None
233UBY	B	3ZDTXN	B	88WLFN	None
237988	B	47XDFU	B	8AHJFZ	B
24VJZL	None	4CHH33	B	8U9TH2	B
29PMKD	B	4EQL2K	B	928CHB	B
29QCRV	B	4NTTUY	None	96MZ39	B
2HZMDT	None	68PPVU	None	9EPAEY	B
2KG724	B	69YJQT	B	9EUL3V	None
2KZ4HA	B	6AAKB8	B	9J8DHN	B
2QPLX7	B	6FGUX3	B	9KUBFT	B
2RJBXU	B	6GA3PJ	None	9KXN8W	B
2TU9BB	B	6NL9DA	B	9KZBNA	B
3242WQ	B	6PMYNX	B	9LTAWG	B
34QML8	B	6QWYQK	None	9M7Y4Z	B
3AEBHY	B	6ZMHAY	B	9TX2DQ	B
3AKBRE	None	783GLP	None	9U29EW	B
3BD9YL	B	7BFCU8	B	9VHXT6	B
3ER789	B	7DQ6Y8	B	9VKM39	None
3KYFU6	B	7QCPBN	None	9WTTJ3	B
3LU43R	None	7QGUYD	B	ABQ7BJ	B
3MM3BY	B	7R6DW6	B	ABRWL9	B
3N2BJY	B	7TFH89	B	AQLLJQ	None
3PCD4C	B	7XFJFH	B	ARXHNV	B
3RZMFY	B	7Y7RFK	B	AT8GQQ	B
3XAVQ2	B	88A9JW	B	ATR9UA	B

TABLE 1 - Item 3

WebCode	Location	WebCode	Location	WebCode	Location
AVC3M4	B	DJRTUU	B	FM76MG	B
AVETV8	None	DN4VKW	B	FNWCLJ	B
AZAHGK	None	DQCVWQ	B	FPNDLF	B
B79B4K	B	DVHT2N	B	GA4HJP	None
BT46XT	B	E3YJ6V	B	GFF29J	B
BUYVWU	B	EAGUEP	B	GJ3QG3	B
BVTJDQ	B	ELWM6K	B	GKCVUQ	B
BWKTCX	B	ELWZBD	B	GLNKAW	B
BX4ATL	None	EQ678J	B	GMZAGF	None
C6EX6Y	B	EVF4QZ	B	GNQK89	B
CD4RUG	B	F4P3LM	B	GPHHFF	B
CEHCMR	B	F4QTWB	B	GUCF7R	B
CEHE8P	B	F6ZZY4	B	GV6DEX	B
CK8PNF	B	F8ULVG	None	GZHCQR	B
CNRL8Y	B	FB97VB	B	H34BNL	B
CQDL8E	B	FBAW7Y	B	H82MUK	B
CWLR4L	B	FBPHDF	None	H82PBC	B
CZXR4J	None	FBR6WE	B	H84CUB	B
D36EBV	B	FCFPDJ	B	HEK38P	B
D4FA2U	B	FENQNH	None	HJRLCA	B
D8UWML	B	FENQUJ	B	HNPZ47	B
D9R8KA	B	FFLZM2	B	HPJNKF	B
DEXTGK	None	FJHQZR	None	HQBMWT	B
DG673R	None	FJJRJ6	B	HR2WJF	B
DHYULN	None	FKUA2N	B	HTY8CX	Not Tested

TABLE 1 - Item 3

WebCode	Location	WebCode	Location	WebCode	Location
HU9EFQ	B	LUZE8L	B	PE2FZU	B
HV8D36	B	LYCBXG	B	PEVAD6	B
HWJ383	B	M47KPU	B	PG4DBM	B
HWMQPG	B	M8GRYL	B	PGLBG8	B
HY8L6U	B	MFHRNF	B	PHY3BA	B
HY9CFH	B	MG93CM	B	PLWKPP	B
HZJE43	B	MH6DCW	B	PREY6F	B
J7KVCM	B	ML8A4C	B	PVHMQX	B
J8WU6B	B	MRU3C6	B	Q3ZH67	B
J9U3DU	B	MUE8QU	None	Q4U4YX	B
JVZQUP	B	MVPZDG	B	Q9KGXZ	B
K7K8DN	B	MW3EN	B	QADE77	B
KDVHFN	B	MXZTHH	B	QC3QV4	None
KERUEW	None	MYQ2LR	B	QEQCGZ	B
KJ4X8K	B	MZZ9MY	B	QFNKMY	B
KKZKFH	B	N2VWXG	B	QM9GVU	B
KRZWH7	B	NCCQ39	B	QQ8RQU	B
KUN7UT	B	NEKY8M	B	QX8CQ4	B
KWCU2L	B	NEMNE6	B	R4RPA4	None
KXNF3A	None	NG3BXC	B	R6FAUD	B
KXQZUJ	B	NHYJ7V	B	R8AXCA	B
LFX2TA	B	NQEFWN	B	RAU26Z	B
LRH4JG	B	NY8NHE	B	RBQC6A	B
LRVRMU	B	P33NBG	B	RDFMXN	B
LTB2RN	B	P3H67A	B	RE9L7U	B

TABLE 1 - Item 3

WebCode	Location	WebCode	Location	WebCode	Location
REPM2A	None	UXDV6H	B	XYEVXE	B
RGEYUN	B	UYMXVM	B	Y2DQW8	None
RKCM9A	B	VBCBFC	B	Y8MZYA	B
RKFZZC	B	VUBCHA	B	YBKLL7	A
RNUML4	B	VV3AUM	B	YEN4CM	B
RUK2BB	B	VVWAL7	B	YFHP8Y	B
T2DVG9	B	W64ZA3	B	YGBMDK	None
TA9QLX	C	W8C47Z	B	YH6M44	B
TARBUC	B	WAJRZW	B	YJFHU3	B
TAUZ2U	B	WDG9EB	None	YJG86Q	B
TH6JXY	B	WDX3FK	None	YQXL4Q	B
TRVZVF	C	WKZE8C	B	YT8NX2	None
TXZY76	B	WLQPWJ	B	YUZL79	B
TZKVQP	B	WLTE32	B	YVCEZB	B
U6V4RT	B	WLU3NL	B	YWPXYL	B
U9TUQD	B	WPUDJL	B	Z7D2R8	None
UEGALC	B	WQ4FAQ	B	ZELVMZ	B
UNPXK4	B	WU69H4	B	ZEZ93W	B
UPX4RD	B	WVG44V	B	ZFDTU7	B
UR3TV8	B	WWEE2J	B	ZG36MK	B
UR4J7W	B	WWTXQN	B	ZH36P7	B
UR87J4	B	XBUMN9	None	ZHYRX4	B
UT2RCU	B	XTQCFW	None	ZNQPV8	B
UT4GJD	B	XU3Y4C	B	ZQBPYU	None
UUBYFM	B	XVFLMC	B	ZR4M8Z	B

TABLE 1 - Item 3

WebCode	Location	WebCode	Location	WebCode	Location
ZWG9BZ	B				

Item 3 - Location Response Summary

Location	Total	Total Participants: 303
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A	1	*NOTE: Tallies may not add up to the total number of participants, if a participant did not report a response.
B	254	
C	2	
D	0	
None	43	
Not Tested	1	

Development Methods

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
229XB6	Visual Examination	
	Alternate Light Source	365nm and 495nm
	Cyanoacrylate Fuming	15 minutes fuming at 80% humidity
	Dye Stain	Ardrox
233UBY	Visual Examination	Magnifier and light
	Cyanoacrylate Fuming	.36 grams of superglue
	Dye Stain	Rhodamine 6G
	Alternate Light Source	Laser at 411 nm
	Powder Dusting	Black fingerprint powder
237988	Cyanoacrylate Fuming	
24VJZL	Cyanoacrylate Fuming	Cyano followed by florescent powder visualized with blue ALS
29PMKD	Cyanoacrylate Fuming	
	Powder Dusting	black powder
	Dye Stain	M-Star
29QCRV	Cyanoacrylate Fuming	After fuming examined reflectively UV and coaxial box with DCS5.
2HZMDT	Visual Examination	some ridge detail visible in section C
	Cyanoacrylate Fuming	15 Drops of glue, in AIR SCIENCE chamber for 25 min. Control positive.
	Powder Dusting	Used magnetic Black powder
2KG724	Physical Developer (PD)	Conventional black powder is used using a fiberglass brush on the surface of item 1. Subsequently, the surface is cleaned using a Marabú brush, revealing the finger fragment located in quadrant C.
2KZ4HA	Cyanoacrylate Fuming	Fuming Chamber; 80% humidity, 20 minute purge, 14 minute cycle.
2QPLX7	Visual Examination	
	Alternate Light Source	Crimescope, UV, RUVIS
	Cyanoacrylate Fuming	microburst
	Dye Stain	RAY, viewed afterward with UV & Crimescope
	Powder Dusting	
2RJBXU	Visual Examination	I did a visual examination of the document.
	Powder Dusting	Using a brush with black powde, passing it gently, until raveling the fingerprint.
2TU9BB	Cyanoacrylate Fuming	Fuming for 1 hour
	Dye Stain	Ardrox under 365 nm

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
3242WQ	Visual Examination	I visually looked at the sample with a magnifying glass and saw ridge detail in area "C".
	Powder Dusting	I used Mag Powder to process the areas and I developed a print in area "C".
34QML8	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Dye Stain	
3AEBHY	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Dye Stain	
3AKBRE	Cyanoacrylate Fuming	MV, 25 minutes glue time
3BD9YL	Cyanoacrylate Fuming	
	Dye Stain	Basic Yellow
3ER789	Cyanoacrylate Fuming	Fumed under vacuum. Dye stained w/ Rhodamine 6G (R6G)
3KYFU6	Visual Examination	
	Cyanoacrylate Fuming	CA fuming 20 minutes, atmospheric
	Dye Stain	Basic Yellow 40 dye stain
	LASER	LASER
3LU43R	Visual Examination	06/15/2022: Item was visually examined under a LED light
	Cyanoacrylate Fuming	06/15/2022: Fumed in the Cyanosafe with a positive control print and observed under a LED light
	Powder Dusting	06/16/2022: Black magnetic powder was used and as observed under a LED
	Dye Stain	06/16/2022: RAY batch #776 was used and was observed under Crime Lite ML2 (420nm-470nm filter): Orange Filter
3MM3BY	Visual Examination	oblique lighting, Laser, ALS, and UV
	Cyanoacrylate Fuming	
	Dye Stain	Both Ardrex and Rhodamine
	Powder Dusting	
3N2BJY	Visual Examination	Visual examination using magnifier and oblique lighting. No ridge detail was observed.
	Cyanoacrylate Fuming	Processed for approximately 10 minutes. Ridge detail was observed.
	Alternate Light Source	Placed item under UV lighting. Observed ridge detail.
	Powder Dusting	Black powder was used but did not enhance ridge detail. No lifts were obtained.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
3PCD4C	Visual Examination	
	Cyanoacrylate Fuming	Processing time 6.5 minutes. The print was visible after the process.
	Dye Stain	Basic Yellow 40. The print was visible after the process.
3RZMFY	Visual Examination	Visual exam performed under white light and alternative light sources.
	Cyanoacrylate Fuming	Fuming for 10 minutes. Cyanoacrylate allowed to harden over a twenty-four hour period.
	Powder Dusting	Magnetic powder
3XAVQ2	Visual Examination	RD noted in Quadrant C, no pattern type discernable.
	Alternate Light Source	Mini-Crimescope- viewed with all wavelengths available, no additional RD noted.
	Cyanoacrylate Fuming	SafeFume Chamber- run time cycle approx.25 minutes, let set overnight-additional RD noted.
	Powder Dusting	Bichromatic powder, no additional RD noted.
	Fluorescent Dye-Rhodamine 6G	Sprayed, let dry, and viewed with Mini-Crimescope- 515nm, additional RD noted, whorl pattern visible in Quadrant C.
3YETTG	Visual Examination	create control on similar substrate, nothing observed on test item
	Alternate Light Source	nothing observed on test item
	Cyanoacrylate Fuming	CA in chamber with control item, pre-heated foil plate approximately 8 minutes; latent print observed in quadrant C of test item
	Dye Stain	add Rhodamine 6G to control item then test item
	Alternate Light Source	observed using Forensic Light Source
	Powder Dusting	processed with black powder
3ZDTXN	Visual Examination	white light and LASER
	Cyanoacrylate Fuming	70 minute run time
	Dye Stain	Rhodamine-6-G
	Powder Dusting	Black powder
47XDFU	Visual Examination	Visual examination under white light and magnification was completed on June 28,2022. Print observed in quadrant C.
	Cyanoacrylate Fuming	Processing in the CyanoSafe (Crime Scene Unit) recirculation chamber was completed on June 28, 2022. Processed in the chamber for 12 minutes and let stand for 60 minutes. Test print positive.
	Dye Stain	RAY (Batch# 780) processing and examination with Foster + Freeman Crime Lite ML with a 450nm -510nm filter and orange barrier was completed on July 19, 2022. Print observed in quadrant C.
	Powder Dusting	Black Magnetic powder was applied and examination under white light and magnification was completed on July 19, 2022. Print observed in quadrant C.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
4CHH33	Cyanoacrylate Fuming Dye Stain Alternate Light Source	Rhodamine 6G
4EQL2K	Visual Examination Cyanoacrylate Fuming Dye Stain Alternate Light Source	Visual examination with white light. No visible latent/patent prints observed. CA fuming time: ~5 min, Purge cycle: ~10 min. Latent print development/ridge detail of possible value observed in quadrant C. Basic yellow application followed by water rinse. Item air dried in a fume hood. Basic yellow application caused marker to run. Blue (450 nm) ALS with orange goggles.
4NTTUY	Powder Dusting	I did a visual inspection of the finger print in the item, then I used an alternate light in oblique direction, later I used black powder to develop the finger print and it was located in the letter C.
68PPVU	Cyanoacrylate Fuming Powder Dusting	Cyanoacrylate was tested against a polymerization standard and reacted accordingly. Cyanoacrylate was used to process Item 1 in a chamber with heated water and the control and then processed for approximately 30 minutes. After processing the fumes were allowed to purge. Item 1 was then checked for latent prints. A latent print was observed in section C. Black magnetic powder was used to enhance the print and make it suitable for lifting.
69YJQT	Visual Examination Alternate Light Source Cyanoacrylate Fuming Alternate Light Source Dye Stain Alternate Light Source	A visual examination was performed on the clear sheeting. I observed ridge structure of no comparison value. LabKam was used to visualize the evidence, with ridge structure of no comparison value being observed. The clear sheeting was placed in a cyanoacrylate chamber for 15 minutes at approximately 120 degrees Celsius. One latent fingerprint of comparison value was observed. LabKam was used to visualize the evidence, with one latent fingerprint of comparison value being observed. Rhodamine 6G was applied to the evidence and allowed to dry. A Polilight was used to visualize the evidence after the dye stain application. Orange goggles were worn and the evidence was viewed at 505 nanometers. One latent fingerprint of comparison value was observed.
6AAKB8	Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain	Rofin Polilight PL500 Safe Fume Chamber, RH 80%, 20min Basic Yellow 40
6FGUX3	Cyanoacrylate Fuming Dye Stain	Fumed for approximately 1 hour under negative pressure Stained with Rhodamine 6G

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
6GA3PJ	Visual Examination	
	Cyanoacrylate Fuming	automatic fuming chamber for approx 15 minutes.
	Visual Examination	
	MBD	7-P-Methoxybenzylamino-4-nitrobenz-2-oxa-1-3-diazole - fluorescing chemical used in conjunction with ALS.
	Alternate Light Source	
6NL9DA	Cyanoacrylate Fuming	78% humidity for 18 minutes
	Powder Dusting	Black powder
	Dye Stain	RAM
6PMYNX	Magnetic Powder Gray	A visual inspection with alternative light was made of the piece of evidence. The piece of evidence was worked with magnetic powder gray.
6QWYQK	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	Lumicyano (cyanoacrylate + fluorescent powder/dye)
	Powder Dusting	
6ZMHAY	Visual Examination	The item was visually examined with fluorescent light for about 1 to 2 minutes. An area/impression was observed and it was bracketed and designated DT1, then photographed. This took about 5 minutes.
	Alternate Light Source	The item was examined with alternate light sources (ALS) for about 2 minutes, 445nm - 510nm and 368nm - 380nm. DT1 improved with ALS and was photographed. This took about 5 to 10 minutes.
	Cyanoacrylate Fuming	The item was processed with cyanoacrylate for 15 minutes when the relative humidity reached 80% and then purged for 10 minutes. The item was examined/evaluated. DT1 did not improve. This took about 2 minutes. A quality check test print with a natural test print was placed with the item and the result was positive.
	Dye Stain	After testing the ardrex with the same quality check test stip, which was positive, the item was stained/processed with ardrex. It was left to dry and then evaluated. DT1 improved with ardrex and it was photographed. This all took about 5 to 10 minutes.
783GLP	Visual Examination	Visual examination under white light and magnification on 7/19/2022 (Fluorescent). Number of items confirmed.
	Cyanoacrylate Fuming	CA - CyanoSafe (LP) recirculation chamber (test print positive) on 7/19/2022. Number of items confirmed.
	Powder Dusting	Magnetic powder on 7/21/2022. Number of items confirmed.
	Dye Stain	RAY (781) on 7/25/2022 (Polilight 2 (450nm & orange filter)). Number of items confirmed

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
7BFCU8	Visual Examination	Visual examination (visible reflection). Date analyzed : 15/06/22. Room temperature = 23°C. Relative humidity = 56 %
	Cyanoacrylate Fuming	Superglue fuming : Lumicyano Powder™. Date analyzed : 15/06/22. Glue temperature = 118°C. Relative humidity = 76 %. Processing time = 40 mn
	Visual Examination	Visual examination (visible reflection + fluorescence). Date analyzed : 15/06/22. Room temperature = 23°C. Relative humidity = 56 %
7DQ6Y8	Cyanoacrylate Fuming	Fuming for 1 hour
	Dye Stain	Ardrox dye stain viewed at 365 nm.
7QCPBN	Visual Examination	(+) Result
	Powder Dusting	(+) Result (black magnetic powder)
7QGUYD	Alternate Light Source	Viewed at 455-515nm with ALS for fluorescing prints with negative results.
	Cyanoacrylate Fuming	Fumed for 20 minutes in CyanoSafe.
	Powder Dusting	Dusted with black powder.
7R6DW6	Cyanoacrylate Fuming	
7TFH89	Cyanoacrylate Fuming	Foster & Freeman MVC1000 used for processing Cyanoacrylate, Lot # 042621-04 Chamber Settings: Relative Humidity 80%, Glue Temperature 120 degrees Celsius, Humidify time and glue time of 10 minutes
	Powder Dusting	Magnetic powder, Lot # 111721-01
7XFJFH	Visual Examination	viewed under white light
	Alternate Light Source	viewed using the ALS at both 350nm and 515nm
	Cyanoacrylate Fuming	in chamber fuming for approximately 15 minutes, test prints developed
	Dye Stain	Sprayed with Rhodamine R6G in methanol, allowed to dry, and viewed with ALS at 515nm
7Y7RFK	Visual Examination	
	Cyanoacrylate Fuming	processing time - 4 min
	Dye Stain	Basic Yellow 40
88A9JW	Visual Examination	White light, different angles. Print was lightly visible.
	Cyanoacrylate Fuming	Payton CYVAC M Forensic Fingerprint Vacuum Machine.
	Basic Yellow 40	
	Alternate Light Source	Crime Lite 42S, GG495 (420-470mm) with Glasses GG495AG. Excellent print.
88FCK3	Powder Dusting	I used black magnetic powder processing technique for this item of evidence.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
88WLFN	Visual Examination	White light and magnification
	Cyanoacrylate Fuming	Cyvac 40 minutes
	Powder Dusting	Magnetic bi-chromatic powder
	Dye Stain	RAY batch 779
8AHJFZ	Cyanoacrylate Fuming	45 mins using MVC3000
	BY40	Basic yellow 40
	Dye Stain	Crystal violet followed by Sudan black
	Powder Dusting	Black
8U9TH2	Visual Examination	Initial visual examination with white light and light source, blue and green light. During the visual examination with blue light a fingerprint was visible in section C. But for better results we added more methods. No photography was performed after the visual examination.
	Cyanoacrylate Fuming	CNA- 1,4 g glue, humidity 80 %, heat 120 degrees, 4 minutes processing time. Teststrip positive. The fingerprint was visible in section C. But for better results we added more methods. No photography was performed after this method.
	Dye Stain	The material was dyed with basic yellow 40 and washed with water. After the examination with blue light a perfect fingerprint was visible in section C. The fingerprint was photographed after this method.
928CHB	Visual Examination	
	Cyanoacrylate Fuming	A control test and the test item were processed with cyanoacrylate fuming for about 5 min at room temperature and controlled humidity condition. Only one print was observed on quadrant C.
96MZ39	Cyanoacrylate Fuming	Fuming with oblique lighting
	Dye Stain	MRM-10 and forensic blue light with orange filter to make print visible
9EPAEY	Visual Examination	
	Cyanoacrylate Fuming	Temperature on the heating plate 100°C. Humidification 80%, time 25 minutes
	Dye Stain	
9EUL3V	Powder Dusting	I applied the magnetic powder on the plastic. Then i proceed to use a brush to clean the area and then i photograph the latent print.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
9J8DHN	Visual Examination	Visual examination with magnification and white light was used on 06/13/2022.
	Cyanoacrylate Fuming	Cyanoacrylate fuming was used on 06/13/2022. Item was placed in CA chamber for 12 minutes, purged for 10 minutes and allowed to dry for 1 hour.
	Dye Stain	RAY was used, which stands for Rhodamine, Ardrex and Basic Yellow. Item was submerged in RAY for approximately 1 minutes and then rinsed with water and placed in this drying hood. The batch number used for the RAY was 776. Item was then viewed with magnification under a blue light with an orange filter.
	Powder Dusting	Black powder was used on 06/16/2022. Black powder was used to adhere to any possible ridge detail to enhance the quality of the print.
9KUBFT	Visual Examination	
	Alternate Light Source	Las-Blu-UV
	Cyanoacrylate Fuming	RUVIS
	Dye Stain	RAM Las-Blu-UV
9KXN8W	Visual Examination	
	Cyanoacrylate Fuming	20 minutes, RH 80% basic yellow 40
9KZBNA	Visual Examination	White light, oblique lighting
	Cyanoacrylate Fuming	LabConco fuming chamber
9LTAWG	Cyanoacrylate Fuming	Processing time 10 minutes.
	Dye Stain	Basic Yellow 40. Print was visible after the process.
9M7Y4Z	Cyanoacrylate Fuming	Visual examination (000-495nm); photography; basic yellow; humidity 78,8%; temperature 130°C
9TX2DQ	Powder Dusting	Dusted using magnetic black powder with a magnetic wand.
9U29EW	Visual Examination	Visually examined the item with negative results
	Cyanoacrylate Fuming	Placed the item in a CA chamber for 17 minutes at 80 % relative humidity
	Dye Stain	Applied Rhodamine 6G and visualized with the Tracer Laser (532nm) in section C
9VHXT6	Visual Examination	
	Alternate Light Source	(Wavelength: 415 nm, Filter: Yellow)
	Cyanoacrylate Fuming	(120°C ± 5°, 75% Relative Humidity ± 15%)
	Dye Stain	Ardrex (Wavelength: 415 nm, Filter: Yellow)
9VKM39	Cyanoacrylate Fuming	MV for 25 minutes

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
9WTTJ3	Visual Examination	documented visual RD in box C using oblique flashlight
	Lumicyano	developed RD in box C (previously documented) and in box B (not previously documented)
	Alternate Light Source	orange filter, 495nm
	Powder Dusting	black FP powder
ABQ7BJ	Visual Examination	visually inspected item to determine if any prints
	Oblique lighting	flashlight used to search and document any latent prints
	Alternate Light Source	forensic light source used to search and document any latent prints
	Cyanoacrylate Fuming	The item was placed in the fuming chamber for about 5 minutes.
	Dye Stain	Rhodamine 6G was sprayed onto the item and dried
	Alternate Light Source	Item looked under the forensic light source and documented
	Powder Dusting	black powder was used to attempt to lift the print
ABRWL9	Visual Examination	Visual with side lighting
	Cyanoacrylate Fuming	15 minutes in CA chamber, Light table
AQLLJQ	Powder Dusting	Processed with magnetic powder
ARXHNV	Visual Examination	
	Alternate Light Source	Mini-Crimescope, all wavelengths
	Cyanoacrylate Fuming	SafeFume Superglue chamber, allowed to dry overnight before subsequent processing.
	Powder Dusting	Magnetic black
	Dye Stain	Rhodamine 6G, viewed with mini-crimescope at 515
AT8GQQ	Visual Examination	
	Alternate Light Source	laser
	Cyanoacrylate Fuming	
	Dye Stain	rhodamine 6G
	Alternate Light Source	laser
ATR9UA	Visual Examination	Oblique lighting to examine for latent prints and indented writing.
	Alternate Light Source	Crime Scope wavelengths 455, 475, CSS, 495, 515
	Cyanoacrylate Fuming	Cyanosafe 20 minutes
	Powder Dusting	Black powder and brush
AVC3M4	Visual Examination	Polilight PL400
	Cyanoacrylate Fuming	Cyanopowder (1,2g), Air Science Safe Fume CA-30S, time 40 minutes, humidity 75%
	Dye Stain	Basic Yellow 40, light 415-495 nm, yellow and orange viewing filter
AVETV8	Cyanoacrylate Fuming	Mason Vactron, 25 minutes glue time

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
AZAHGK	Visual Examination	Visual examination conducted under fluorescent light and magnifying lens. Gloves were worn.
	Cyanoacrylate Fuming	Item was placed into a cyanoacrylate fuming chamber and standard processing instructions for chamber were followed (12-15 drops cyanoacrylate, sufficient water, run for 12 minutes, leave sealed for 20 more minutes, allow to set for one hour). Item was examined under fluorescent light and magnifying lens. Gloves were worn at all times.
	Alternate Light Source	Item was submerged in RAY (batch 779) for 20 seconds before being rinsed in water and dried in a fume hood. Once dry, item was examined using a "Crime-lite ML" at 450-510nm and an orange filter. Gloves were worn at all times.
	Powder Dusting	Item was processed in a powder chamber using black powder. Item was then examined under fluorescent light and magnifying lens. Gloves were worn at all times.
B79B4K	Black Magnetic Powder	A visual inspection was performed, alternating light was used, and photographs were taken to document the findings. Magnetic graphite powder was applied until the fingerprint was visualized.
BT46XT	Visual Examination	Visually examined item for any possible ridge detail using oblique white light and ambient light.
	Alternate Light Source	ALS used to examine item for any possible ridge detail.
	Cyanoacrylate Fuming	Cyanoacrylate chamber used under 80% humidity, 11 minutes, 120 degrees C. Test print included in run.
	Visual Examination	Visually examined item and test print post-cyanoacrylate fuming using oblique white light.
	Alternate Light Source	ALS used to examine item for any possible ridge detail.
	Dye Stain	MBD used to process the item and test print, applied to each using a squirt bottle.
	Alternate Light Source	Utilized a blue ALS and yellow/orange filter to view ridge detail on item and test print.
	Powder Dusting	Utilized black powder and black magnetic powder to further enhance ridge detail on item and test print.
	Visual Examination	Visually examined item and test print post-powdering.
BUYWU	Cyanoacrylate Fuming	
	Dye Stain	Ethanol base BY40 stain used
BVTJDQ	Visual Examination	
	Cyanoacrylate Fuming	
	Powder Dusting	Black powder

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
BWKTCX	Cyanoacrylate Fuming	The Cyanoacrylate Fuming Chamber was cleaned prior to use with 70% isopropyl alcohol, and clean butchers paper was laid on the bottom of the machine. This writer confirmed that there was enough water in the machine to function properly, and placed a control print on a clip in the machine. Approximately a quarter sized amount of super glue was poured into a tin cup and placed in the machine. Once the chamber was turned on, the chamber reached 70% humidity before it fumed for ten minutes and purged for ten minutes. Once this process was completed, the item was removed and observed for latent print detail. Proper PPE was used at all times: gloves, mask, and lab coat.
	Powder Dusting	Black magnetic powder was dusted onto the item's surface using a magnetic powder wand.
BX4ATL	Visual Examination	Incandescent/flood lighting.
	Cyanoacrylate Fuming	Cyanosafe CSU. 12 minute cycle. Allowed to sit for approximately 1 hour.
	Dye Stain	RAY Batch #778. Rinsed in solution for approximately 15 seconds. Rinsed with cold water. Allowed to air dry.
	Powder Dusting	Black magnetic powder.
C6EX6Y	Visual Examination	Oblique lighting. PRD
	Alternate Light Source	Blue light (420-470 nm). PRD
	Cyanoacrylate Fuming	Lot #202109162, Expiration: 10/31/2022. Control: positive. PRD
	Powder Dusting	Black magnetic powder. PRD
CD4RUG	Visual Examination	Visual examination. Could see something cloudy in section C.
	Alternate Light Source	Then the item was examined with 450 nm light source, and the cloudy in section C was a little better.
	Cyanoacrylate Fuming	Then I used cyanoacrylate fuming and a fingerprint of good quality was detected. The pattern was whorl.
	Dye Stain	To improve the contrast i used Basic Yellow 40. The fingerprint in section C was even better.
CEHCMR	Powder Dusting	Black Magnetic Powder Lot #201504033-04 exp. 12-2025 Processing time 1906
CEHE8P	Visual Examination	Faint ridge detail observed in quadrant C, but move to CA
	Cyanoacrylate Fuming	Fume for 11 minutes in Mystaire CA-6000 chamber
	Visual Examination	Faint ridges, no photography
	Dye Stain	R6G - Petroleum ether formula
	Alternate Light Source	Crimescope CS-16-500, 515nm,visualized using orange barrier filter goggles. Photography of possible ridge detail in quadrant C.
CK8PNF	Visual Examination	Crimelite, TracER laser
	Cyanoacrylate Fuming	Foster & Freeman chamber, 70 mins
	Dye Stain	Rhodamine 6G
	Powder Dusting	Black powder

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
CNRL8Y	Dye Stain	Viewed with RUVIS Viewed with R6G and viewed with laser
CQDL8E	Visual Examination	Used Crimelite, TracER laser, and incandescent lighting
	Cyanoacrylate Fuming	Fumed in the MVC 5000 cabinet for approximately 70 minutes.
	Dye Stain	Rhodamine 6G
	Powder Dusting	Black powder dusting
CWLR4L	Visual Examination	oblique lighting; ridge structure collection value
	Cyanoacrylate Fuming	MVC5000, positive control; ridge structure collection value
	Alternate Light Source	LabKam; ridge structure collection value
	Dye Stain	Basic Yellow 40, positive control
	Alternate Light Source	Crimescope - 445nm, yellow filter; ridge structure collection value
CZXR4J	Visual Examination	Item was examined for visible friction ridge detail under white light magnification.
	Cyanoacrylate Fuming	Item was placed in cyanoacrylate fuming chamber (CA) for 12 minutes, allowed to harden undisturbed for one hour, and then examined for friction ridge detail under white light magnification.
	Dye Stain	Item was immersed in a mixture of Rhodamine 6G, Ardrox P133D, and Basic Yellow 40 (RAY) for about one minute, then rinsed gently with tap water, item was then gently patted dry and examined for friction ridge detail under the Crime Scene Unit (CSU) Crime Lite ML (460nm-510nm filter) with orange filter.
	Powder Dusting	Item was dusted with black magnetic fingerprint powder and examined for friction ridge detail under white light magnification.
D36EBV	Cyanoacrylate Fuming	Observed positive results on panel C with white light.
	Dye Stain	Used Rhodamine and observed positive results on panel C with ALS 505 wavelength.
	Powder Dusting	Item was processed with black monochromatic powder.
D4FA2U	Visual Examination	with ambient light and white light
	Cyanoacrylate Fuming	74% RH, 71F for 9 minutes
	Dye Stain	rhodamine 6g (water-based), laser exam at 532nm with orange barrier filter
D8UWML	Visual Examination	I examined the piece visually for one minute to see if the latent print could be identified, but it could not be seen.
	Alternate Light Source	For one minute examine the piece using an alternating white light to see if the latent print could be identified, it could be visualized.
	Powder Dusting	The latent print was processed with black magnetic powder.
D9R8KA	Cyanoacrylate Fuming	Basic Yellow

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
DEXTGK	Visual Examination	The item was visually examined using white light and magnification.
	Cyanoacrylate Fuming	12- 15 drops of cyanoacrylate were added to a metal cup and placed on the heating element. A test print was added to the chamber and the distilled water well level was checked. Item was placed in the chamber to allow for the entire surface to be exposed to the CA vapors. The cycle ran for 12 minutes and then a 10 minute purge cycle. Item was allowed to sit undisturbed for 1 hour. The item was visually examined using white light and magnification.
	Dye Stain	Item was sprayed with a layer of RAY solution and then the excess was rinsed off with tap water. The item was gently patted dry. The item was visually examined using a Crime Lite ML (460nm-510nm) with an orange filter.
	Powder Dusting	Black magnetic powder was applied to the item with a magnetic wand. The wand with the magnetic powder attached is lightly run over the item in a circular motion. The item was visually examined using white light and magnification.
DG673R	Visual Examination	
	Cyanoacrylate Fuming	
	Powder Dusting	Black powder
DHYULN	Visual Examination	no ridge detail observed
	Cyanoacrylate Fuming	30 minutes
	Visual Examination	ridge detail present in box C, very faint with direct and oblique lighting to photo
	Powder Dusting	black powder used to enhance the friction ridge detail
DJRTUU	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	20 minutes in chamber
	Dye Stain	RAY
	Powder Dusting	black powder
DN4VKW	Visual Examination	Item was visually examined prior to any processing.
	Cyanoacrylate Fuming	Cyanoacrylate fuming, CFC - Lot: XT28419, exp. 02/2023. Positive control conducted with appropriate results. Fuming cycle - 10 minutes at 70% humidity. Purge cycle - 10 minutes
	Powder Dusting	Magnetic powder applied to item to develop and visualize the latent fingerprint (Quadrant C).
DQCVWQ	Visual Examination	Coaxial light, white light, UV reflexion
	Cyanoacrylate Fuming	Lumicyanoacrylate (hygrometry >75%, 15 minutes)
	Visual Examination	White light, coaxial light, fluorescence

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
DVHT2N	Visual Examination	I performed a visual examination to locate the fingerprint.
	Alternate Light Source	I used a white light flashlight in an oblique direction to highlight the fingerprint.
	Powder Dusting	I used conventional black powder to lift the fingerprint with the brush.
E3YJ6V	Visual Examination	Visual-Print Section C
	Alternate Light Source	ALS-Print Section C
	Cyanoacrylate Fuming	CA Fuming 5 Min Lot#: CA210628 Print Section C
	Powder Dusting	Black Powder Lot #: BP171017 Print Section C
EAGUEP	Powder Dusting	Inspected the object visually. Item was processed in about five minutes using magnetic powder.
ELWM6K	Ninhydrin	Item was treated with ninhydrin spray and left to dry at room temperature for 7 minutes until fully developed.
ELWZBD	Visual Examination	
	Cyanoacrylate Fuming	
	Dye Stain	Rhodamine 6G
	Powder Dusting	Black powder
EQ678J	Visual Examination	Evidence was visually examined. Ridge structure was noted in quadrant C, but ridge structure was not comparison value. No photographs were taken
	Cyanoacrylate Fuming	evidence was placed in MVC1000A chamber. positive control. after fuming, same ridge structure was observed in quadrant C, but ridge structure was not comparison value. no photographs were taken
	Alternate Light Source	evidence was examined with LabKam. same ridge structure was observed in quadrant C. ridge structure was comparison value, was marked Latent 1A-1 and photographed
	Dye Stain	evidence was dye stained with Rhodamine 6G. positive control
	Alternate Light Source	evidence was examined with Crimescope at 515 nm with orange filter. ridge structure in quadrant C (Latent 1A-1) was comparison value and photographed
EVF4QZ	Visual Examination	Before enhancement : - Incident and field lightning with white light (crimelite 2) - Raking light (crimelite 2)
	Cyanoacrylate Fuming	Lumicyano (0,84g - 118°C - 81% humidity - 20') in a Foster&Freeman MVC 1000 Cabinet Visual examination with : - white light (crimelite 8x4) - white light (crimelite 8x4) with polarizing filter - Blue-Green light 475nm (crimelite 82S) with orange filter - Blue light 445nm (crimelite 2) with yellow filter
	Dye Stain	Rhodamine 6G Visual examination with Blue Green light 475nm (crimelite 82S) with orange filter

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
F4P3LM	Visual Examination	Flashlight to examine for patent prints.
	Cyanoacrylate Fuming	I fumed the item in a chamber for 15 minutes.
	Visual Examination	Flashlight to examine for latent prints.
	Powder Dusting	I dusted the item using green fluorescent powder.
	Alternate Light Source	I viewed the item using an Ultralite at 450nm with orange goggles. I also viewed the item using a Bright Beam Laser at 445nm with orange laser goggles.
F4QTWB	Visual Examination	Visual examination using ambient lighting, incandescent lighting, Crimelite
	Cyanoacrylate Fuming	Fuming for 75 min cycle in F+F CVC 5000 chamber. Viewed using using ambient lighting, incandescent lighting, Crimelite
	Dye Stain	Rhodamine 6G dye stain, viewed with TracER laser
	Powder Dusting	Black powder dusting
F6ZZY4	Visual Examination	
	Alternate Light Source	Flashlight
	Cyanoacrylate Fuming	Fuming chamber processing time of 10 minutes and a purge time of 10 minutes. Humidity set to 70%.
	Alternate Light Source	Flashlight
	Dye Stain	Rhodamine 6G methanol solution and methanol rinse.
	Alternate Light Source	Coherent Laser
F8ULVG	Visual Examination	Visual examination under white light and magnification on June 29, 2022. Prints were observed on section C.
	Cyanoacrylate Fuming	CyanoSafe (Crime Scene Unit) recirculation chamber on June 29, 2022. Test print positive. Prints were observed on section C.
	Dye Stain	RAY (batch #778) processing and examination using Foster + Freeman Crime Lite ML with a 460nm-510nm bandwidth filter and orange barrier on June 30, 2022. Prints were observed on section C.
	Powder Dusting	Black powder on June 30, 2022. No enhancement.
FB97VB	Visual Examination	
	Cyanoacrylate Fuming	
	Dye Stain	Basic Yellow

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
FBAW7Y	Visual Examination	Visual examination of the folded clear polyethylene sheet; ridge detail was not observed.
	Cyanoacrylate Fuming	The item was placed into the superglue chamber. Superglue was added into an aluminum dish and placed that onto a hot plate inside the chamber. A glass beaker with hot water was added in the chamber to provide humidity. A control print was placed onto the inside of the glass of the chamber to ensure the superglue was fuming properly. The chamber was turned on and let the superglue fumes adhered to any ridge detail. The item was left inside the chamber for approximately 15 minutes. Once the positive control turns white from the superglue, the chamber was turned off and vented the chamber.
	Powder Dusting	Applied black powder with disposable bush. Ridge detail developed in quadrant C.
FBPHDF	Visual Examination	Visual examination under fluorescent light and magnification.
	Cyanoacrylate Fuming	The Cyanosafe was set up with twelve (12) drops of cyanoacrylate into one (1) medium metal cup on a hot plate, distilled water well filled, and test print placed inside. The chamber ran for 12 minutes and the purge process was completed. The item was allowed to dry for one (1) hour. Test print positive. Visual examination under fluorescent light and magnification.
	Powder Dusting	Magnetic black powder was applied with a magnetic wand. Visual examination under fluorescent light and magnification.
	Dye Stain	The item was completely immersed into a tray of RAY (Batch 777) for approximately one (1) minute, rinsed with water until all excess RAY solution was removed, patted dry with a Kim wipe, and allowed time to completely air dry. Visual examination with the Crime Lite ML (460nm-510nm filter) and using an orange filter and magnification.
FBR6WE	Visual Examination	Visual - LED Magnified Lighting. Print observed.
	Cyanoacrylate Fuming	CyanoSafe time - 20 minutes. Test print positive. LED Magnified Lighting. Print enhanced
	Powder Dusting	Black magnetic powder. LED magnified Lighting. Print enhanced.
	Dye Stain	Ray Dye Stain, Batch #771, applied for approx. 45 seconds. Lighting - Crime Lite ML2 w/ orange filter. Print enhanced.
FCFPDJ	Visual Examination	I examined the piece for a minute and I was able to identify the latent print.
	Alternate Light Source	I examined the piece using an alternative white light and confirm the latent print in the letter C.
	Powder Dusting	The latent print was processed with black powder.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
FENQNH	Visual Examination	I looked at Item 1 under LED lighting before any processing had been done to it.
	Cyanoacrylate Fuming	I put Item 1 in the Cyanosafe. It was in the "running" mode for 12 minutes and the "purge" mode for 10 minutes. Then I let it rest for 1 hour before handling it again. After the hour, I looked at the item under LED lighting.
	Dye Stain	Because Item 1 was non-porous, I used RAY (Rhodamine, Ardrex, and Basic Yellow) dye staining. I left Item 1 in the dye-stain for approximately 1 minute before rinsing the item, blotting it dry with a kim wipe, and letting it dry. Then I looked at the item on the CrimeLite ML with the blue light and orange filter.
	Powder Dusting	I dusted Item 1 with black powder as a last attempt at enhancing any ridge detail.
FENQUJ	Cyanoacrylate Fuming	127°C, 80% rel. humidity, fuming for 2min
FFLZM2	Visual Examination	Using eyesight + light sources. In existing light, and blue light (Obelux) we could find a fingerprint on section C. In UV-light (Drimelite) no visible prints.
	Cyanoacrylate Fuming	Using Foster & Freeman MVC 3000 D 3000 (time 10 minutes, humidity 80%, glue temperature 230 degrees Celcius, glue Polycyano). Test print as per work instructions. The glue stuck to test print. The print on item 1 was more visible, but fluorescence with UV-light was weak. We decided to continue with the BY40 method which clearly enhanced the print and we got a comparable fingerprint, which was photographed.
FJHQZR	Ninhydrin	
FJJRJ6	Visual Examination	Visual and oblique lighting. No latents observed.
	Alternate Light Source	Forensic Light Source. No latents observed.
	Cyanoacrylate Fuming	Friction ridge detail observed within quadrant "C".
	Dye Stain	Rhodamine 6G/FLS. Friction ridge detail observed within quadrant "C".
	Powder Dusting	Black Powder. Latent lift obtained.
FKUA2N	Cyanoacrylate Fuming	
	Powder Dusting	
FM76MG	Visual Examination	Item was visually examined using LED light under magnification.
	Cyanoacrylate Fuming	Item was placed into a circulation chamber for 12 minutes to process and an additional 10 minutes were dedicated so that the instrument could purge. Item was left to sit and allow CA to harden for approximately 1 hour. Item was examined using LED light under magnification.
	Dye Stain	Item was fully submerged in RAY dye. RAY dye sat on item for approximately 1 minute and was lightly rinsed off with water and patted dry with a KimTech wipe. Item was then hung in a hood until fully dry. Item was examined using UV light with an orange filter and magnification.
	Powder Dusting	Item was dusted using magnetic black powder. The entire item was dusted. Item was examined under LED light and magnification.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
FNWCLJ	Powder Dusting	Perform a visual inspection, to locate the footprint. And alternating light was used white light, then black magnetic powder was used. Lift the footprint with a clear plastic patch. It was preserved in photo. The footprint is located in the letter C.
FPNDLF	Cyanoacrylate Fuming	1. Visual examination, using light source. 2. Cyanoacrylate fuming (glue time 15 min, 15 drops of cyanoacrylate, humidity 80%, hot plate 120c) 3. Visual examination.
GA4HJP	Visual Examination	Visual examination using CrimeScope's light source
	Cyanoacrylate Fuming	Processing with the Cyanoacrylate for 20 minutes
GFF29J	Visual Examination	An ocular inspection was performed on piece number one, which is divided into four parts in letter. A fingerprint was identified in the region c.
GJ3QG3	Visual Examination	
	Cyanoacrylate Fuming	
	Dye Stain	Rhodamine
	Powder Dusting	
GKCVUQ	Visual Examination	white light, oblique
	Cyanoacrylate Fuming	white light, oblique
	Dye Stain	R6G, MeOH carrier
	Alternate Light Source	Laser @ 532nm with Orange barrier filter
GKWCCCE	Visual Examination	fluorescent light
	FSIS	Full spectrum imaging system, UV light
	Cyanoacrylate Fuming	cyanosafe ca chamber
	Powder Dusting	magnetic powder
	Dye Stain	RAY batch#776, 450nm polilight 2 with orange filter
GLNKAW	Visual Examination	
	Cyanoacrylate Fuming	(120°C ± 5°, 75% Relative Humidity ± 15%)
	Powder Dusting	
GMZAGF	Visual Examination	Examined with white light and magnification on 6/10/22.
	Cyanoacrylate Fuming	Placed in Cyanosafe on 6/10/22. Examined with white light and magnification.
	Dye Stain	RAY dye stain applied via spray on 6/10/22, Batch #777, rinsed with water, then air dried. Examined with CrimeLite at 460nm - 510nm with an orange filter.
	Powder Dusting	Dusted with black powder on 6/10/22. Examined with white light and magnification.
GNQK89	Alternate Light Source	Used to photograph the fingerprint, used an oblique alternate white light source.
	Powder Dusting	Used black powder to enhance the finger print, it's contrast.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
GPHHFF	Cyanoacrylate Fuming	Visual examination, light sources, then Polycyano Fuming.
GUCF7R	Cyanoacrylate Fuming	Fuming chamber for 32 minutes.
GV6DEX	Cyanoacrylate Fuming Powder Dusting Dye Stain	30 minutes processing time black powder Ardrox
GZHCQR	Visual Examination Cyanoacrylate Fuming Dye Stain	only faint ridges seen Chamber #1, 15 min, 73 degrees F, 80% humidity, lot# UR18419 R6G (MeOH) lot # LP06062122, BrightBeam laser, 532nm, orange goggles
H34BNL	Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain	High intensity light source examination using a range of lights: Green, blue and UV RH 80%, cycle length 15 min Basic Yellow stain, ethanol based
H82MUK	Cyanoacrylate Fuming Powder Dusting	White Powder
H82PBC	Cyanoacrylate Fuming	a visual examination was performed on the item no fingerprints were observed, it was then fumed with cyanoacrylate in a fuming tank for 10 minutes a print was the observed in section c this was photographed with a scale then dusted with silk black fingerprint powder, then photographed again with a scale.
H84CUB	Visual Examination Cyanoacrylate Fuming Dye Stain Powder Dusting	Ambient light, flashlight, laser MVC 5000, ambient light/flashlight Rhodamine 6G and laser Black powder, ambient light/flashlight
HEK38P	Cyanoacrylate Fuming Dye Stain Powder Dusting	
HJRLCA	Visual Examination Cyanoacrylate Fuming Dye Stain Powder Dusting	No latent print observed during this step. Fumed for approximately 15 minutes; pattern type not visible at this step. Rhodamine 6G dye stain used; pattern type visible at this step. Two orange filters used. Black fingerprint powder; lifted and placed onto latent lift card.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
HNPZ47	Visual Examination	Visual examination of the piece of plastic. No ridge detail was observed.
	Cyanoacrylate Fuming	Fumed the item in the chamber for approximately 20 minutes with hot water for humidity.
	Powder Dusting	Applied magnetic powder with magnetic wand to the item and developed ridge detail in section C. No other ridge detail observed.
HPJNKF	Visual Examination	Visual examination under white light and magnification.
	Cyanoacrylate Fuming	Cyanosafe set up with fifteen (15) drops of cyanoacrylate in one (1) metal cup on a hot plate, distilled water well filled, and test print placed inside. Chamber ran for 12 minutes followed by the purge process. Process complete and item was allowed to dry for one (1) hour. Test print positive.
	Powder Dusting	Black magnetic powder applied with a magnetic wand.
	Dye Stain	RAY batch #778. Item completely covered in RAY stain, rinsed under water until all excess solution was removed, patted dry with a paper towel, and allowed to air dry completely.
HQBMWT	Cyanoacrylate Fuming	Fuming Chamber, 80% Humidity, 20 minute purge, 14 minute cycle.
HR2WJF	Cyanoacrylate Fuming	Item 1 - CA
	Dye Stain	RAM with ALS
HTY8CX	Physical Developer (PD)	se utilizó polvo negro (it was used black powder)
HU9EFQ	Visual Examination	
	Cyanoacrylate Fuming	CA fuming for 15 mins at preset specs.
	Alternate Light Source	Tracer laser ALS used at 532 nm.
	Powder Dusting	Black magnetic fingerprint powder used.
HV8D36	Visual Examination	06-02-22 16:00 - latent print located in quadrant "C"
	Alternate Light Source	06-02-22 16:30 - 532 nm Coherent Tracer Laser
	Cyanoacrylate Fuming	06-02-22 17:58 Vacuum chamber A, 40 minutes - latent print located in quadrant "C"
	Powder Dusting	06-02-22 19:00 Magnetic powder - latent print located in quadrant "C"
HWJ383	Cyanoacrylate Fuming	Processed with CAE in fuming chamber for 20 minutes.
	Powder Dusting	Applied black fingerprint powder to item after CAE application.
HWMQPG	Powder Dusting	Black magnetic powder and magnetic wand used - not prints developed
HY8L6U	LPPM	Examination with Reflective SW ultraviolet light

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
HY9CFH	Visual Examination	Examined the piece of plastic as is, using ambient lighting, oblique lighting, ultra violet light (UV), LASER, and alternate light source (ALS).
	Cyanoacrylate Fuming	Superglued the item in Superglue cabinet along with testprint for about 10 min.
	Dye Stain	Dyed stained the item with Ardrex. Let it dry and checked under the UV light for any fluorescing superglued latent impressions.
	Dye Stain	Dyed stained the item with Rhodamine 6G. Let it dry and checked under the LASER light for any fluorescing superglued latent impressions.
	Powder Dusting	Dusted the entire item with carbon black powder.
HZJE43	Visual Examination	
	Cyanoacrylate Fuming	
	Powder Dusting	black powder
	Powder Dusting	fluorescent magnetic powder
J7KVCM	Visual Examination	
	Alternate Light Source	UV: 350-380 nm. Blue-Green: 445-510nm
	Cyanoacrylate Fuming	Fume Time: 15min. Relative Humidity: 80%
	Dye Stain	MBD. Viewed with Blue-Green 445-510nm
J8WU6B	Visual Examination	One (1) folded clear plastic sheet. Impression detected in quadrant "C".
	Alternate Light Source	Inherent Luminescence Exam
	Cyanoacrylate Fuming	Vacuum. 30 minutes.
	Dye Stain	Rhodamine 6G dye-stain.
	Alternate Light Source	PL500@505nm. Impression developed in quadrant "C".
	Powder Dusting	Standard black powder. Impression developed in quadrant "C".
J9U3DU	Cyanoacrylate Fuming	Fuming for 1 hour
	Dye Stain	Ardrex staining viewed under 365 nm
JVZQUP	Alternate Light Source	Mark search was done by following ways: 1. Blue Light (445 nm) using Goggle (495 nm). 2. Green Light (532 nm) using Goggle (550 nm) Print found on Section C
	Cyanoacrylate Fuming	Processing Time: 45 mins, which includes Humidifying, Fuming and Purging. After 45 mins, Mark search was done using White Light. No additional mark found. Mark on Section C , enhanced
	Dye Stain	After Dying with BY40, kept to dry for 20 mins in fumehood. After 20 mins, Mark search was done using 445nm light (blue light) with goggle (495nm). No Additional marks found. But the mark on Section C , enhanced

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
K7K8DN	Cyanoacrylate Fuming	6/15/2022 Cyanoacrylate Fuming Chamber (CFC) Processing -Target Humidity Value - 70% -CFC processing started - 1045 hours -Target Humidity Value reached/Fuming cycle started - 1052 hours -Fuming cycle ended/Purge cycle started - 1102 hours -Purge cycle ended/CFC processing ended - 1112 hours CFC (+) control - Lot #: XT28419, Exp: 02/2023
	Powder Dusting	6/15/2022 Black Magnetic Powder Processing -Black Magnetic Powder and Magnetic Powder Applicator -Start - 1115 hours, End - 1120 hours
KDVHFN	Cyanoacrylate Fuming	15 min @ 80% humidity
KERUEW	Powder Dusting	Magnetic powder
KJ4X8K	Visual Examination	Vis - 20 minutes
	Alternate Light Source	368nm and 505nm
	Cyanoacrylate Fuming	CA - 80% relative humidity + ~15min processing time
	Dye Stain	ARDROX dye stain
KKZKFH	Visual Examination	I Perform a visual inspection of the object to locate the fingerprint.
	Alternate Light Source	I used an alternating white light in an oblique direction to highlight fingerprint inaccuracies.
	Powder Dusting	I used convectional powder to lift the fingerprint, black with your brush.
KRZWH7	Visual Examination	USING OBLIQUE LIGHTING
	Alternate Light Source	FORENSIC LIGHT SOURCE
	Cyanoacrylate Fuming	LOT #20210727
	Dye Stain	RHODAMINE 6G (LOT # R6G-032122)
	Alternate Light Source	FORENSIC LIGHT SOURCE WITH ORANGE FILTER
	Powder Dusting	BLACK POWDER
KUN7UT	Cyanoacrylate Fuming	Fumed for 1 hour.
	Dye Stain	Rhodamine 6G viewed under forensic laser
KWCU2L	Visual Examination	Examination under white light and latent print was observed on C, but need to make it more clear shape.
	Cyanoacrylate Fuming	The fuming was initiated in the fuming chamber at least 15 minutes with humidity. The latent print was observed more clear on C under natural light. Latent print will fix by cyanoacrylate fuming.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
KXNF3A	Visual Examination	A fluorescent light was used while looking at the item at various angles under magnification.
	Cyanoacrylate Fuming	The item was placed into a CyanoSafe where I added distilled water to the cup heater element and put 18 drops of liquid cyanoacrylate into a foil cup. That foil cup was then placed on a heating element. A test print was made and hung in the chamber. The chamber was closed and it was turned on to run for 20 minutes. After the 20 minutes the chamber went through its purge cycle and I let the item sit for 60 minutes. I examined the item under a fluorescent light at various angles under magnification.
	Powder Dusting	Black magnetic powder was used and a magnetic wand was used to apply the powder in a fume hood. I examined the item under a fluorescent light at various angles under magnification.
	Dye Stain	RAY dye staining was used on this item. It was immersed in the dye stain and then rinsed off with water. I pat the item dry to remove water droplets and then hung the item up in the fume hood to completely dry. I examined the item under a polilight with orange filtered glasses on.
KXQZUJ	Cyanoacrylate Fuming	I used a fuming chamber at the chambers settings. I observed friction ridge detail which I photographed for further processing.
	Dye Stain	I then processed the item with Basic yellow dye. I rinsed the dye and let it dry
	Alternate Light Source	I used an alternate light source with appropriate filters and nanometered light to further enhance the friction ridge impression.
LFX2TA	Visual Examination	An ocular inspection was performed on piece number one, which is divided into four parts in letters. A fingerprint was identified in the region c.
	Alternate Light Source	An alternating white light was used to verify the location of the fingerprint.
	Cyanoacrylate Fuming	The chemical cyanoclrirate was used for the development of the fingerprint.
	Powder Dusting	Black magnetic powder was used to make the fingerprint visible and lift it.
LRH4JG	Visual Examination	Natural light, flashlight, laser, UV, ALS, SUV/FSIS
	Cyanoacrylate Fuming	SUV/FSIS
	Dye Stain	Ardrox/UV
	Dye Stain	Rhodamine/Laser
	Powder Dusting	Black powder
LRVRMU	Forensic Light Source & Alternate Light Source	Using a handheld flashlight and a ROFIN PL500 polilight to conduct a visual examination of item-1, I found ridge detail of a recordable level within quadrant-C prior to chemical processing.
	Cyanoacrylate Fuming	Item-1 was placed into a CA chamber and exposed to Cyanoacrylate fumes for 18 minutes at 80% RH. Additional development was achieved through the CA process. A standards test was conducted during the CA process which yielded the expected results.
	Dye Stain	Once the Cyanoacrylate process was completed the ridge detail was treated with MRM10. The ridge detail benefited from the application of MRM10. A standards test was performed on this dye stain prior to being applied to testing materials. The MRM10 performed as expected.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
LTB2RN	Visual Examination	I began processing with a visual examination using alternate light sources (white light, coaxial light, 450 nm, 505 nm, and laser light) and documented visible ridge detail prior to processing.
	Cyanoacrylate Fuming	I placed the item into the Cyanoacrylate chamber for fuming (approximately 20 minutes), using a control (control exhibited expected results); allowed item to set for several minutes before removing from chamber. After processing with Cyanoacrylate, I examined the item with a white light and coaxial light and documented visible ridge detail. I allowed the Cyanoacrylate to set on the item for approximately 24 hours before processing with Rhodamine.
	Dye Stain	I then processed the item (and Cyanoacrylate control) with Rhodamine. Using Rhodamine poured into a glass tray, I dipped the item and control into the Rhodamine and let them dry in the Fume Hood; control exhibited expected results. I then examined it using 450 nm and 505 nm light sources and documented visible ridge detail.
	Powder Dusting	Lastly, I processed the item with bichromatic powder and examined it with a white light. I collected a tape lift on a latent lift card of the visible ridge detail.
LUZE8L	Visual Examination	flash light, oblique light
	Cyanoacrylate Fuming	
LYCBXG	Visual Examination	Utilized ambient light and flashlight for visualization.
	Cyanoacrylate Fuming	Utilized CApture BT Fuming Chamber with hot plate temperature of 351 degrees F and relative humidity of 50%. Control test = positive.
	Dye Stain	Utilized Rhodamine 6G (Methanol) dye stain viewed with green laser and orange goggles. Control Test = positive.
M47KPU	Visual Examination	Direct and transmitted light
	Cyanoacrylate Fuming	Fumed for 12 minutes at 74% humidity
	Dye Stain	Basic Yellow 40 dye stain, ALS at 450nm with yellow filter
M8GRYL	Visual Examination	Flashlight - negative results
	Powder Dusting	Black powder - positive results in Quadrant C
MFHRNF	Visual Examination	Examined the item using Oblique lighting, UV lamp, ALS and LASER lighting.
	Cyanoacrylate Fuming	I fumed the item for approximately 8 minutes.
	Dye Stain	I processed the item with an Ardrex Dye Stain and allowed the item to dry, then examined the item under a UV lamp.
	Dye Stain	I processed the item with a Rhodamine Dye Stain and allowed the item to dry, then examined the item under a LASER using orange goggles/filter.
	Powder Dusting	I applied black powder to the item using a fingerprint brush.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
MG93CM	Forensic ligths	The evidence is checked using "Lumatec 400" forensic light with all spectrum. 21°C room temperature.
	Cyanoacrylate Fuming	Vaporization of cyanoacrylate in fuming chamber for about 5 minutes. 110,2°C temperatura, 82% humidity.
	Forensic ligths	The evidence is checked again using forensic light with all spectrum.
MH6DCW	Visual Examination	White light, 0 photos. RUVIS, 1 photo.
	Lumicyano	17 minutes at 75% humidity. Hot plate at 250 degrees Fahrenheit. White light, 0 photos. LASER, 1 photo. RUVIS, 1 photo.
ML8A4C	Visual Examination	Used white light and ambient lighting
	Alternate Light Source	Used Rofin PL550XL
	Cyanoacrylate Fuming	Fumed for approximately 6 minutes
	Powder Dusting	Used black magnetic powder
	Dye Stain	Used MRM-10
MRU3C6	Visual Examination	Item #1 was visually examined with oblique lighting, 2 minutes
	Alternate Light Source	Item #1 was visually examined with a Forensic Light Source, 2 minutes
	Cyanoacrylate Fuming	Item #1 was fumed in a chamber with CAE, then the item was examined with oblique lighting and a Forensic Light Source, control was conducted concurrent to fuming, 15 minutes
	Dye Stain	Item #1 was processed with Rhodamine 6G Dye Stain and then examined with a Forensic Light Source, control was conducted prior, 15 minutes
	Powder Dusting	Item #1 was processed with black powder and a latent print was lifted with fingerprint tape, 5 minutes
MUE8QU	Visual Examination	White light, oblique light
	Alternate Light Source	All wavelengths
	Cyanoacrylate Fuming	2 photos taken
	Dye Stain	MRM-10, 2 photos taken
	Dye Stain	Basic Yellow
	[No Methods Reported.]	Methanol Rinse
	Powder Dusting	Magna Powder
MVPZDG	Physical Developer (PD)	Conventional black powder is used using a fiberglass brush on the surface of item 1. Subsequently, the surface is cleaned using a Marabú brush, revealing the finger fragment located in quadrant C.
MW3EN	Cyanoacrylate Fuming	Fumed with Cyanoacrylate for 1 hour
	Dye Stain	Dyed with Rhodamine 6G
	Alternate Light Source	Viewed with 532 nm light and orange filter goggles

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
MXZTHH	Visual Examination	White light
	Alternate Light Source	368nm, 505nm
	Laser	532nm
	Cyanoacrylate Fuming	Relative Humidity 75-80% Fume Time 15 minutes
	Dye Stain	Ardrox Evaluated at 368nm
MYQ2LR	Visual Examination	Visual exam of the item was completed. No visible prints were located at this time.
	Cyanoacrylate Fuming	The item was then chemically processed using Cyanoacrylate Fuming (MVC 1000). The fuming process takes approximately 20-30 minutes. The humidity of the chamber is set to 80% and the glue temperature is set to 120 degrees Celsius. Approximately 6 drops of superglue is used (Lot # 042621-04). A test print (positive/negative control) is used during the fuming process as well. Once the fuming was completed, very faint ridge detail was visible in Quadrant C.
	Powder Dusting	The item was then processed using Bichromatic powder (Lot #111219-01). Ridge detail was present in Quadrant C, but was very faint.
MZZ9MY	Cyanoacrylate Fuming	1,5 grams of CNA, 8 minutes in fuming cabinet 120 degrees celsius RH 80%
	Dye Stain	Basic Yellow 40

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
N2VXG	Visual Examination	White light examination of exhibit as received using ambient laboratory lighting and 'Tiablo' High Power LED Flashlight at varying angles. Ridge detail was seen in section 'C'. This was exhibited as '[Initials]/1' and photographed.
	Alternate Light Source	Sequential initial High Intensity Light Source (HILS) examination carried out, following dark adaptation, using Green Crime Lite 480nm-560nm with 571nm viewing filter followed by Blue Crime Lite 420nm-470nm with 476nm viewing filter and UV Crime Lite 350nm- 380nm with 408nm viewing filter. QA adhered to and control test pieces passed. No useful marks were developed and no further enhancement of [Initials]/1.
	Cyanoacrylate Fuming	Item 1 was treated with Cyanoacrylate Fuming. Foster & Freeman MVC5000 Cabinet, Relative Humidity 80%, Glue time 13 minutes & 3g of superglue used). Following treatment, examined using 'Tiablo' High Power LED Flashlight (white light) at varying angles. QA adhered to and control test piece passed. No useful marks were developed and no further enhancement of [Initials]/1.
	Dye Stain	Item 1 was treated with ethanol-based BY40 dye used. BY40 dye applied and left for ~20 seconds. Rinsed with water and left to dry. Examined when dry using blue Crime Lite 420-470nm with 476nm viewing filter, following dark adaptation. QA adhered to and control test piece passed. '[Initials]/1' in section 'C' was further enhanced, exhibited as '[Initials]/1A0' and photographed.
	Wet Powder Suspension	Item 1 was treated with carbon-based powder suspension used. Pre-rinsed with water. Powder Suspension applied with soft squirrel hair brush and left for ~20 seconds. Powder Suspension rinsed off gently using running water and then allowed to dry. When dry, examined using 'Tiablo' High Power LED Flashlight (white light) at varying angles and magnifying eyeglass used where required. QA adhered to and control test piece passed. No useful marks were developed and no further enhancement of [Initials]/1.
NCCQ39	Visual Examination	I visually examined item 1 using fluorescent lighting with a magnifying lens.
	Cyanoacrylate Fuming	I placed item 1 into the CA chamber in the latent print room of the Crime Scene Unit. I hung the item up on a rod to allow all sides to be in contact with the CA fumes. I put fifteen (15) drops of cyanoacrylate into a small foil dish and placed a test print on a clip at the top of the chamber. I ran the fume cycle for 12 minutes, then allowed the chamber to purge for 10 minutes, and then I allowed the item to sit for an hour. I then visually examined the item under fluorescent light with a magnifying lens.
	Dye Stain	I sprayed item 1 with RAY fluorescent dye stain (batch number 777) and rinsed it gently with water. I allowed the item to dry completely before visually examining the item using the CrimeLite ML blue light with an orange filter.
	Powder Dusting	I dusted item 1 with black magnetic powder. I then visually examined the item under fluorescent light with a magnifying lens.
NEKY8M	Visual Examination	ambient light and flashlight
	Cyanoacrylate Fuming	lumicyano fuming 8 mins, visualized with ALS 455-515nm with orange filter
	Dye Stain	Rhodamine 6G, visualized with ALS 455-515 with orange filter
	Powder Dusting	Black magnetic powder, lifted with a gel lift

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
NEMNE6	Cyanoacrylate Fuming Powder Dusting	
NG3BXC	Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain	Examined in the white light and daylight. Examined in 350-380 nm (Crimelite 82S), and in 450 nm, 470 nm, 490 nm, 505 nm, 530 nm , 555 nm (Polilight PL500). Processed in the cyanoacrylate chamber "MVC 3000" for 20 min., t-120 C, RH-80 %. Dried item examined in the white light. Processed in Basic Yellow 40 (0,2 percent, ethanol based), exposure time - 5 sec. Dried item examined at 450 nm (Polilight PL500) with filter OG550.
NHYJ7V	Visual Examination Cyanoacrylate Fuming	A control test of reagent and solution were performed at the same time with Item 1 Positive Results of Cyanoacrylate. Item was process twenty minutes in cyanoacrylate atmospheric fuming with cyanoacrylate compound.
NQEFWN	Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting Dye Stain	Processing time = 3 min; ambient lighting. Processing time = 4 minutes. Examined using Mini-Crimescope--all available wavelengths. Processing time = 20 minutes. SafeFume fuming chamber. Processing time = 5 minutes. Black powder. Processing time = 7 minutes. Dye stain used: Rhodamine 6G. Examined with Dual77 laser at 520nm.
NY8NHE	Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting Dye Stain	Fragmentary ridge detail noted in Quadrant C, pattern type not discernible. Mini-Crimescope - all wavelengths available. Additional fragmentary ridge detail noted in Quadrant C, pattern type not discernible. SafeFume Superglue Chamber - run time approximately 25 minutes. Additional fragmentary ridge detail noted in Quadrant C, pattern type not discernible. Magnetic Bi-Chromatic powder. Additional ridge detail noted in Quadrant C - whorl pattern type. Rhodamine 6G (fluorescent dye). Viewed with Dual 77 laser at 520 nm. No additional ridge detail noted.
P33NBG	Visual Examination Cyanoacrylate Fuming Dye Stain	In daylight fingerprint has been disclosed - section C. In a whole spectrum of Polilight PL 500 no fingerprint fluorescence. Improved fingerprint quality has been achieved. Type of dye stain - Basic Yellow 40. Improved fingerprint quality has been achieved.
P3H67A	Cyanoacrylate Fuming	Visually examined - Applied Basic Yellow 40 dye stain - visually examined under 450nm ALS.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
PE2FZU	Visual Examination	Oblique lighting
	Alternate Light Source	from 455-515 nm with orange goggles
	Cyanoacrylate Fuming	23 minutes fuming time.
	Powder Dusting	With black powder.
PEVAD6	Powder Dusting	Magnetic Powder
PG4DBM	Visual Examination	Two (2) minutes to do visual exam. No RD.
	Alternate Light Source	Five (5) minutes to do Inherent Lumination with Mini-Crimescope (all wavelengths). No RD.
	Cyanoacrylate Fuming	Fifteen (15) minutes to fume item 1. No RD.
	Powder Dusting	On 6/11/22 two (2) minutes dusting item 1. RD developed on section C.
	Dye Stain	On 6/11/22, thirty (30) minute processing used Rhodamine 6G, Mini Crimescope 515 nm. No additional RD.
PGLBG8	Powder Dusting	Perform a visual inspection, to locate the footprint. An alternating light was used white, then black magnetic powder was used. Lift the footprint with a clear plastic patch. It was preserved in photo. The footprint is located in the letter C
PHY3BA	Visual Examination	White light from various lamps.
	Alternate Light Source	Various colours of light using polilight.
	Cyanoacrylate Fuming	Processing time approx 30 mins includes white light lightsearch.
	Dye Stain	Rhodamine 6 G treatment visualised using laser. Gential Violet treatment visualised using white light and laser. Safarin O treatment visualised using laser. Approx 2 hours time in total
PK79WB	Visual Examination	No Impressions observed using direct and oblique lighting
	Cyanoacrylate Fuming	30 minute fuming cycle
	Visual Examination	Impression observed slightly with oblique lighting. Too faint to show up in photos.
	Powder Dusting	Black powder. Impression observed in quadrant C
PLWKPP	Visual Examination	I observed ridge detail in section "C" during a visual examination.
	Powder Dusting	I processed the item using black Mag Powder and developed ridge detail in section "C".
PREY6F	Visual Examination	
	Cyanoacrylate Fuming	
	Alternate Light Source	Reflected UV
	Dye Stain	Rhodamine 6G
PVHMQX	Cyanoacrylate Fuming	10 min fuming, then Basic yellow.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
Q3ZH67	Alternate Light Source	A visual inspection of piece of evidence # 1, using alternating white light and magnifying glass, was made where the fingerprint was located.
	Magnetic powder	Black magnetic powder was used to develop the printing.
Q4U4YX	Visual Examination	White light and fluorescence examination 350 nm - 650 nm.
	Cyanoacrylate Fuming	Processing in fuming cabinet for 10 min heat superglue to about 120 C and humidity 75%. Exam with white, blue light.
	Basic Yellow 40	Sprayed item, washed by water, dried and exam with 450 nm.
Q9KGXZ	Powder Dusting	Perform a visual inspection, to locate the footprint. An alternating light was used white, then black magnetic powder was used. Lift the footprint with a clear plastic patch. it was preserved in photo. The footprint is located in the letter C
QADE77	Visual Examination	White light/ALS
	LUMICYANO Alternate Light Source	BG
QC3QV4	Visual Examination	Visual examination under LED lighting and magnification
	Cyanoacrylate Fuming	CA fuming using CyanoSafe, visual examination under LED lighting and magnification
	Powder Dusting	Black magnetic powder dusting, visual examination under LED lighting and magnification
	Dye Stain	RAY dye staining, visual examination using Crimelight ML2 and an orange filter, with ~450nm lighting and magnification
QEQCGZ	magnetic powder black	A visual inspection with alternative light was made of the piece of evidence was worked with magnetic powder black.
QFNKMY	Visual Examination	Print was visible in white light.
	Cyanoacrylate Fuming	Processing time 10 minutes. Print was visible after process.
	Dye Stain	Basic Yellow 40. Print was visible after process.
QM9GVU	Visual Examination	10 mins
	Cyanoacrylate Fuming	15 mins with visual exam
	Dye Stain	Rhodamine 15 mins w/ Forensic Light Source
	Powder Dusting	Black Powder

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
QQ8RQU	Visual Examination	Checked for any possible trace evidence and visible latent print evidence. Oblique lighting (Flashlight) Processing Time: 3 minutes.
	Inherent Florescence	Detection of latent prints prior to chemical processing. Forensic Light Source Processing Time: 3 Minutes
	Cyanoacrylate Fuming	Cyanoacrylate in fuming chamber with item needed to be processed for latent prints: Processing Time 5-10 minutes
	Visual Examination	Checked for any visible latent print evidence. Processing Time: 10 Minutes
	Dye Stain	Rhodamine 6G- Processing Time- 20 Minutes
	Forensic Light Source	Laser used in conjunction with the dye stain processing. Processing Time: 30 Minutes
	Powder Dusting	Black Powder/Latent print brush- Processing Time: 5 Minutes
QX8CQ4	Cyanoacrylate Fuming	120 degree celsius 8 minutes 12 drops
	Dye Stain	Basic Yellow
R4RPA4	Visual Examination	Visual examination under white light and magnification.
	Cyanoacrylate Fuming	Cyanosafe set up with sixteen (16) drops of cyanoacrylate in the aluminum weigh boat. The weigh boat was placed on the heating element, distilled water was then placed in the water well. A test print was placed inside the chamber. The chamber was turned on and ran for 12 minutes and allowed to purge. The item was allowed to dry for 1 hour. Test print was positive.
	Dye Stain	The item was completely covered in RAY stain for approximately one (1) minute. The item was then rinsed under water until the excess stain was removed. The item was patted dry and allowed to air dry completely. Ray batch 777.
	Powder Dusting	Black powder applied with a brush.
R6FAUD	Alternate Light Source	direct illumination
	Cyanoacrylate Fuming	Lumicyano
R8AXCA	Visual Examination	Visual Exam was negative for ridge detail.
	Cyanoacrylate Fuming	CA fuming was positive for ridge detail.
RAU26Z	Visual Examination	white light UV TracER Laser
	Cyanoacrylate Fuming	70 minutes
	Dye Stain	Rhodamine 6G
	Powder Dusting	Black powder
RBQC6A	Visual Examination	Friction ridge detail observed in Quadrant C
	Cyanoacrylate Fuming	Foster and Freeman MVC 5000 per protocols
	Dye Stain	Basic Yellow per protocols

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
RDFMXN	Visual Examination	Visual examination with a flashlight
	Cyanoacrylate Fuming	Cyanoacrylate fuming for 15 minutes using an Air Science cyanoacrylate fuming chamber.
	Powder Dusting	Used a magnetic wand with a mixture of black powder and magnetic powder
	Dye Stain	MBD2 (7-P-methoxybenzylamino-4-nitrobenz-2 oxa-1-3-diazole) dye stain Visualized with a forensic light source, Crimescope CS-16-500
RE9L7U	Visual Examination	Oblique white light
	Cyanoacrylate Fuming	Fuming temp 120 degrees C. Humidity RH 80%, Dev. time 8 min
	Dye Stain	Basic yellow 40, 2 g/l 96% ethanol
REPM2A	Cyanoacrylate Fuming	
	Powder Dusting	Black powder.
RGEYUN	Visual Examination	white light, UV - 555nm - Polilight PL 500, suitable googles
	Cyanoacrylate Fuming	processing time - 15 minutes, humidity - 80%
	Visual Examination	white light
	Dye Stain	Basic Yellow 40
	Visual Examination	UV - 495 nm, yellow coloured google
RKCM9A	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	12 minutes
	Powder Dusting	Magnetic powder
RKFZZC	Non-porous processing	Visual examination, Inherent Lumination (Alternate light source all nm), Cyanoacrylate (super glue- sat over night/next day), bi-chromatic powder, Rhodamine 6G Dye stain, Alternate light source 515nm
RNUML4	Black magnetic powder	As first step I realized a visual inspection to found the latent print using a white alternate light, After I use black magnetic powder
RUK2BB	Visual Examination	The piece of evidence was examined visually to see if i could identify where the latent print was located. Thoroughly checking each side of the sheet of plastic, focusing my view on each of the assigned spaces A,B,C,D. Always documenting the piece through photography.
	Alternate Light Source	Due to the latent print not being found so easily with just my visual prowess, I added an alternate light source to help the process. Using a flashlight with a white beam of light. Helping identify where the latent print was located in the lower middle parte of the C section of the sheet of plastic. Always documenting the piece through photography.
	Powder Dusting	Once located through an alternate light source the latent print was exposed through the use of black graphite powder and brushes. Working through it with caution not to affect the integrity of the latent print and cleaning the excess of graphite to clean the area. To properly see the latent print and its characteristics. Always documenting the piece through photography.

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WebCode	Development Methods	Method Details
T2DVG9	Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain	
TA9QLX	Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting	Krimesite Scope 80% humidity, 20 mins Conventional black powder
TARBUC	Cyanoacrylate Fuming	
TAUZ2U	Visual Examination Laser Cyanoacrylate Fuming Powder Dusting	06/15/2022 @ 1420 hrs. No visible ridge detail 06/15/2022 @ 1446 hrs. 532 nm laser. Test/control was positive. No visible ridge detail 06/15/2022 @ 1516 hrs. Vacuum A used with reagent ID 202110107. Item in chamber 40 minutes. Test/control was positive. Ridge detail present and photographed 06/16/2022 @ 0735 hrs. Magnetic powder used. Test/control was positive. Ridge detail present and photographed. Retained image after processing with magnetic powder due to better contrast. Assigned image Item 1-1.
TH6JXY	Visual Examination Alternate Light Source Cyanoacrylate Fuming Alternate Light Source Dye Stain Alternate Light Source Powder Dusting	Processing time 7 minutes Rhodamine 6G Black powder
TRVZVF	Powder Dusting	Magnetic Powder, Lifting tape
TXZY76	Visual Examination Cyanoacrylate Fuming Visual Examination	Ambient light and Crime Lite ML2 420nm-560nm (red, yellow, and orange filter). CA- 6000 at 65 percent relative humidity for 30 minutes. Ambient light.
TZKVQP	Cyanoacrylate Fuming Powder Dusting	Black powder

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
U6V4RT	Visual Examination	
	Cyanoacrylate Fuming	Approx. 30 minutes.
	Visual Examination	
	Dye Stain	MBD
	Alternate Light Source	
U9TUQD	Visual Examination	Observed ridge detail in section C during visual inspection
	Cyanoacrylate Fuming	CA fumed for 90 minutes under a vacuum
	Alternate Light Source	viewed using FSIS where ridge detail was observed in section C
	Dye Stain	Dye stained using R6G
	Alternate Light Source	Viewed using a forensic laser at 532 nm, where ridge detail was observed in section C
UEGALC	Visual Examination	Print recovered
	Cyanoacrylate Fuming	Processing time 1 hour, 80% relative humidity, print recovered
	Dye Stain	Ardrox, print recovered
UNPK4	Powder Dusting	Magnetic black powder used to dust all sections of evidence.
UPX4RD	Cyanoacrylate Fuming	Lumi-Cyano, fuming time 25 minutes, temperature 120 degrees celsius
UR3TV8	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Dye Stain	
UR4J7W	Visual Examination	Eye inspection was with alternating white light, identifying in a table c.
	Powder Dusting	A black magnetic powder was used for its development.
UR87J4	Visual Examination	A visual inspection of piece of evidence # 1.
	Alternate Light Source	Using an alternative white light and a magnifying glass was made where the fingerprint was located.
	Black magnetic powder	After located the fingerprint, black magnetic powder was used to develop the print.
UT2RCU	Visual Examination	Disclosing of a fingerprint. The light sources (UV and visible) at the labeled wavelength 350-650 nm and white.
	Cyanoacrylate Fuming	Improvement in fingerprint quality after use Cyanokcrylate Fuming. The fingerprint is steel visible but a little bit better than visual examination.
	Dye Stain	No improvement in fingerprint quality after use Basic Yellow 40. The fingerprint is visible the best in the light source 415 nm with yellow goggles.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
UT4GJD	Visual Examination	Used ambient/oblique lighting. Right detail observed and photographed with macro lens F/8, 1/2sec.
	Alternate Light Source	Used UV and 505nm wavelengths with clear and orange filters
	Cyanoacrylate Fuming	Cyanoacrylate chamber for approx. 10min at approx. 78% humidity
	Visual Examination	Used ambient/oblique lighting. Ridge detail observed and photographed with macro lens F/8, 1/60sec.
	Dye Stain	Rhodamine 6G dye stain
	Alternate Light Source	Used 505nm wavelength and orange filter. Ridge detail observed
UUBYFM	Visual Examination	Item photographed prior to processing weak print fragment observed in section C, it was photographed
	Alternate Light Source	examination with white light (Polilight flare 2"ROFIN"). Print fragment Visible, it was rephotographed with white light and macro camera lens (Nikon D3300)
	Cyanoacrylate Fuming	The cabinet (Scenesafe) settings was : 85 % humidity and the hot plate was set on 120 degrees. Processing time 8-10 minutes. A visible print was seen in section C of item. Prints were deposited on a similar item, by human fingerprints (control Test),developed good quality prints. fingerprint was photographed with white light and macro camera lens (Nikon D3300).
	Powder Dusting	Powder Dusting (to improve the quality of latent print): Black magnetic powder, Enhanced ridges of latent print. Fingerprint was photographed with white light and macro camera lens (Nikon D3300).
UXDV6H	Cyanoacrylate Fuming	The folded clear polyethylene sheeting was processed with cyanoacrylate ester under vacuum for 1 hour, dye stained with Rhodamine 6G and viewed with a forensic laser.
UYMXVM	Cyanoacrylate Fuming	12 minutes, 120 degrees celcius, 80% RH.
	Dye stain	Basic yellow 40 solution
VBCBFC	Cyanoacrylate Fuming	BY-40 dye stain
VUBCHA	Visual Examination	
	Alternate Light Source	Examined with a 350-380 nm and 445-510 nm alternate light source
	Laser Examination	Examined with a 532 nm laser
	Cyanoacrylate Fuming	Humidity set point: 80%. Hot Plate set point: 120 degrees Celsius. Fuming time: 15 minutes. Purge time: 10 minutes
	Dye Stain	Ardrox Examined with 350-380 nm ALS
W3AUM	Visual Examination	
	Cyanoacrylate Fuming	Superglue fuming.
	Dye Stain	Basic Yellow 40 dye stain.
	Alternate Light Source	Wavelength of 450nm.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
VWAL7	Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain	
W64ZA3	Visual Examination Cyanoacrylate Fuming Powder Dusting Dye Stain Alternate Light Source	Visual examinations were performed prior to latent print processing and then after each subsequent processing step. Item was fumed using a Foster+Freeman MVC 3000. Basic black latent fingerprint powder was applied with a fiberglass brush. Basic Yellow 40 dye stain mixed in-house. Rofin PoliLight PL500
W8C47Z	Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain Powder Dusting	The item was visually examined using a white LED light source under magnification. The item was examined for the presence of inherent luminescence using Crime Lite ML (460nm-510nm: Orange Filter) under magnification. The item was processed by placing approximately 18 drops of cyanoacrylate into 1 metal dish. The metal dish was placed onto a heating plate. Distilled water was placed in a reservoir inside the chamber to maintain humidity. A test print was created and placed into the chamber. Items were placed into the chamber with consideration to space evidence far enough apart to allow CA vapors to circulate between items. The chamber was set to fume for approximately 12 minutes. The test print was checked for visible development of the latent print. Items were left undisturbed for 60 minutes to allow the CA coating to harden. The item was examined using LED lighting under magnification. A fluorescent dye stain was used, containing Rhodamine 6G, Ardrex Tracer-Tech P133-D, and Basic Yellow 40 (RAY). The item was processed by immersing in a tray of RAY, agitating for approximately 1 minute, the item was rinsed off under a gentle flow of cold water. The item was gently patted dry and placed under a fume hood to complete drying. The item was examined using Crime Lite ML (460nm-510nm: Orange Filter) under magnification. The item was processed by picking up a small amount of powder (black) on the ends of the latent print brush bristles, and shaking off excess powder. The powder (black) was brushed gently over the surface of the item using circular strokes. The item was examined using LED lighting under magnification.
WAJRZW	Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain Powder Dusting	5 minutes, latent observed, photographed 5 minutes, observed under forensic light source (FLS), nothing observed 15 minutes, nothing observed 15 minutes, RAM, latent observed under FLS, photographed 5 minutes, black powder, nothing observed or obtained

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
WDG9EB	Visual Examination	
	Alternate Light Source	UV and Crimescope
	Cyanoacrylate Fuming	Fume time-20 minutes, 5 minutes purge time in fuming chamber.
	Dye Stain	R.A.Y. dye stain was applied to evidence with a spray nozzle. Drying time was 10 minutes. Reviewed Crime Scope at a wavelength of 495nm.
	Powder Dusting	Black powder.
WDX3FK	Cyanoacrylate Fuming	25 minutes of glue time in Mason Vactron fuming chamber
WKZE8C	Visual Examination	White light, blue light and yellow visualisation filter, green light and orange/red visualisation filter. Print visible in section C (using white light).
	Cyanoacrylate Fuming	Amount of glue used: 2 grams. Fuming time: 10 minutes. Print visible in section C (using white light).
	Dye Stain	Basic Yellow 40, ethanol based. Print visible in section C using blue light and yellow visualisation filter.
WLQPWJ	Cyanoacrylate Fuming	Visual examination: In existing light and using light sources. With white light we could faintly see a fingerprint in section C. We could not take a picture of the fingerprint as such. Cyanoacrylate fuming: Using MVC-3000 D3, examination made by following work instructions. The glue stuck to test prints normally. The fingerprint in item 1/ section C got stronger and we were able to photograph it as a comparable print using white light. Basic Yellow 40: Test prints ok. The treatment enhanced the print even more and was photographed again using UV-light and yellow filter.
WLTE32	Visual Examination	
	Alternate Light Source	Reflective UV.
	Cyanoacrylate Fuming	Lumicyano. humidity: 80%, temperature: 125 Celsius, time: 25 minutes.
WLU3NL	Visual Examination	No latent evidence observed.
	Powder Dusting	Black magnetic powder used. Latent evidence observed.
WPUDJL	Visual Examination	
	Powder Dusting	Applied silver black to all quadrants. Print developed in quadrant C.
WQ4FAQ	Visual Examination	
	Cyanoacrylate Fuming	15 minute fuming / 15 minute purging in a CA-3000 fuming chamber
	Visual Examination	
	Dye Stain	MBD
	Alternate Light Source	450 nm
WU69H4	Visual Examination	Visual Examination, 30 minutes.
	Cyanoacrylate Fuming	Cyanoacrylate Fuming, 30 minutes.
	Dye Stain	Rhodamine 6G dye staining with methanol rinse and drying, 30 minutes.
	Alternate Light Source	Laser (alternate light source), 30 minutes.
	Powder Dusting	Powder dusting with black fingerprint powder, 20 minutes.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
WVG44V	Visual Examination	
	Cyanoacrylate Fuming	standard
	Powder Dusting	standard
WWEE2J	Visual Examination	White, blue, green light
	Cyanoacrylate Fuming	10 minutes, 2,1 gram glue
	Dye Stain	BY40
WWTXQN	Visual Examination	Visual Exam and Oblique Lighting
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Dye Stain	Rhodamine 6G
	Alternate Light Source	
	Powder Dusting	Black powder
XBUMN9	Visual Examination	Used a magnifier and flashlight.
	Cyanoacrylate Fuming	
	Powder Dusting	Black powder
XTQCFW	Visual Examination	On 06/06/2022 I visually examined item 1 under a white light with magnification using an LED light source. No visual prints were observed.
	Cyanoacrylate Fuming	On 06/06/2022, I placed item 1 into the cyanosafe. I added distilled water to the cup heater element, added 18 drops of cyanoacrylate into an aluminum weigh boat and placed it onto the heating element. I then hung a test strip into the chamber. I set the time to 20 minutes and the chamber began to run. After it ran for 20 minutes, the purge cycle ran for an additional 10 minutes. I then let item 1 sit for 60 minutes to allow the cyanoacrylate deposits to harden. I then placed the item under a white light with magnification using an LED light. I observed possible ridge detail in section C. I then stopped processing to photograph the possible print observed.
	Dye Stain	On 06/07/2022, I placed item 1 into RAY dye stain (BATCH: 774). I rinsed item with water, patted dry and allowed to air dry. I then examined the item under the Crime Lite ML (460nm-510nm filter) using an orange filter. I observed possible ridge detail in section C. I then stopped processing to photograph the possible print observed.
	Powder Dusting	On 06/07/2022, I used black powder under a circulation hood. I placed item 1 under a white light with magnification using an LED light source and observed possible ridge detail.
XU3Y4C	Cyanoacrylate Fuming	MVC5000
	Dye Stain	R6G
	TracER laser	

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
XVFLMC	Alternate Light Source	Oblique light
	Cyanoacrylate Fuming	Vacuum fumed with Cyanoacrylate ester in a CYVAC vacuum chamber for 1 hour
	FSIS	FSIS system using 254nm UV light and 254nm filter
	Dye Stain	Rhodamine dye in a petroleum based solution and viewed with green laser at 532nm and orange filter.
XYEVXE	Visual Examination	Fragmentary RD (NI) noted in quadrant C
	Alternate Light Source	Utilized Mini-Crimescope through all wavelengths to visualize any inherent luminescence. No additional RD noted.
	Cyanoacrylate Fuming	No additional RD noted
	Powder Dusting	Volcanic powder. No additional RD noted.
	Dye Stain	Rhodamine 6G. RD developed in quadrant C. See below for preservation method.
Y2DQW8	Visual Examination	
	Powder Dusting	Black Powder
	Cyanoacrylate Fuming	
Y8MZYA	Visual Examination	
	Cyanoacrylate Fuming	Air Science SafeFume superglue chamber, 15 minutes, 80% humidity, 72° F
	Dye Stain	R6G dyestain, viewed with ALS (Crimescope), 515nm, orange goggles
YBKLL7	Visual Examination	
	Cyanoacrylate Fuming	Humidy 80%, procesing time 30 min
YEN4CM	Visual Examination	
	Cyanoacrylate Fuming	
	Powder Dusting	magnetic powder and black powder used
	Dye Stain	Ardrox

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
YFHP8Y	Visual Examination	On 06/09/2022 I performed a visual examination under white light and magnification (LED). Ridge detail was observed in section C, so I stopped to preserve the latent print through photography.
	Cyanoacrylate Fuming	On 06/15/2022 I placed item 1 into the CyanoSafe recirculation chamber in the Crime Scene Unit's latent print room. I filled the humidity element with distilled water to the proper amount. Then I placed 15 drops of cyanoacrylate into a aluminum weigh boat and placed the weigh boat onto the flat heating element. I also hung a test print strip from the clip in the front upper right of the chamber. The chamber ran for 12 minutes and after the 12 minutes it purged for 10 minutes. After the purging, I opened the door and the evidence sat undisturbed for 60 minutes to allow the cyanoacrylate to harden. The test print strip was observed as positive showing the CyanoSafe functioned properly. I retrieved item 1 from the chamber and examined it under white light and magnification (LED). Ridge detail was observed in section C, so I stopped to preserve the latent print through photography.
	Dye Stain	On 06/17/2022 I submerged item 1 into RAY dye stain (Batch#: 776). I then rinsed item 1 under water and patted the water droplets away. I hung item 1 up to air dry completely in a fume hood. Once completely dry, I examined item 1 with the Crime Lite ML (460nm - 510nm light) with a orange filter attached. Ridge detail was observed in section C, so I stopped to preserve the latent print through photography.
	Powder Dusting	On 06/20/2022 I powdered item 1 with black magnetic powder. I then examined item 1 under white light and magnification (LED). Ridge detail was observed in section C, so I stopped to preserve the latent print through photography.
YGBMDK	Visual Examination	Item visually examined and photographed
	Cyanoacrylate Fuming	20 minutes @ 40% humidity
	Powder Dusting	Black magnetic powder
	Dye Stain	MBD dye stain
	Visual Examination	Item viewed with ALS
YH6M44	Visual Examination	White light different angles.
	Lumicyano Fuming	Foster & Freeman MVC3000. Temperature 120°C, Humidity: 80%, processing time 25 min.
	Alternate Light Source	Crime Lite 42S (Blue 420-470 nm, Green 480-560 nm) and orange and red filters.
YJFHU3	Visual Examination	Includes use of an ALS/FLS
	Cyanoacrylate Fuming	Ran for 12 minutes and allowed to harden overnight
	Powder Dusting	Magnetic powder
YJG86Q	Visual Examination	Reflective Lighting (Impression Documented)
	Cyanoacrylate Fuming	15min (impression documented)
	Powder Dusting	BiChrom Mag PDR (impression documented)

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
YQXL4Q	Visual Examination	Examined item using ambient lighting and Crime-Lite2 (white).
	Cyanoacrylate Fuming	Used a vacuum chamber set to 25 PSI and fumed for twenty minutes, let item's surface cure for 15 minutes.
	Visual Examination	Examined item using ambient lighting and Crime-Lite2 (white).
	Dye Stain	Used R.A.M. Dye Stain: used dye stain to spray item and then allowed to air dry.
	Alternate Light Source	Examined item with a Rofin Polilight PL500 at 505nm with orange goggles.
	Wet Powder Suspension	Used White Wetwop: brushed a diluted amount of Wetwop onto item and allowed to sit for approximately 15 seconds before rinsing off with tap water.
	Visual Examination	Examined item using ambient lighting and Crime-Lite2 (white).
YT8NX2	Powder Dusting	
YUZL79	Visual Examination	White light
	Alternate Light Source	UV 368nm; Blue green: 445-510nm
	Cyanoacrylate Fuming	80% RH, 15 min
	Dye Stain	MBD, [wavelength] = 445-510nm
YVCEZB	Cyanoacrylate Fuming	Processing time = approximately 20 mins. CFC chamber at 70% humidity - 10 minute cycle followed by a 10 minute purge cycle. CFC positive control tested +, Lot#XT28419 Exp 02/23
YWPXYL	Visual Examination	Latent print impression observed
	Cyanoacrylate Fuming	CAE fuming in chamber for approximately 15 minutes. Latent print observed and photographed
	Dye Stain	Rhodamine 6G dye stain utilized, followed by methanol rinse. No enhancement of latent print observed.
	Alternate Light Source	Coherent Tracer LASER utilized, 532nm. Enhancement of latent print observed and photographed.
Z7D2R8	Visual Examination	I looked at the evidence using ambient light and a flashlight.
	Cyanoacrylate Fuming	The evidence was fumed in a cyanoacrylate chamber.
	Powder Dusting	Silver/black powder was used along with magnetic powder for a re-lift.
ZELVMZ	Cyanoacrylate Fuming	processed in chamber for 31 minutes
ZEZ93W	Visual Examination	First start to examine the piece in all its parts.
	Alternate Light Source	Use a oblique alternate white light source also put the light source on the back.
	Powder Dusting	Use black powder to enhance the contrast of finger print.

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
ZFDTU7	Visual Examination	~10 mins
	Alternate Light Source	~10 mins (350-380nm and 445-510nm)
	Laser	~5 mins (532nm)
	Cyanoacrylate Fuming	~35 mins
	Dye Stain	~5 mins; MBD (445-510nm)
ZG36MK	Visual Examination	
	Cyanoacrylate Fuming	
	Dye Stain	Rhodamine 6G
	Alternate Light Source	laser
ZH36P7	Visual Examination	different light sources and filters
	Cyanoacrylate Fuming	temp. 25 C, humidity 80%, time 20 min, natural and white light (Chamber Safefume CA30S)
	Basic Yellow 40	spray, 350-530 light, yellow filter
ZHXR4	Visual Examination	In the visual inspection, in the prevailing light, a fingerprint can be distinguished against the light in the C box. With the Foster & Freeman crime-Lite 42S UV (350 – 380 nm) light source, it initially stands out even more clearly. Fingerprint was photographed and after that the processing was continued.
	Lumicyan	Steamed in a Foster & Freeman MVC3000 glue steamer with lumicyan, according to the work instructions.
ZNQPV8	Visual Examination	Visual examination with ambient/oblique lighting.
	Alternate Light Source	Visual examination Forensic Light source with various wavelengths & barrier filters.
	Cyanoacrylate Fuming	CA fumed in Misonix Chamber at 78% humidity for approx. 9 mins.
	Visual Examination	Visual examination with ambient/oblique lighting & latent photographed.
	RAM dye-stain	Sprayed with RAM dye-stain and rinsed with RAM de-stain.
	Alternate Light Source	Visual examination with Forensic Light source with 505 wavelength & orange filters. Latent photographed with orange filter.
ZQBPU	Visual Examination	
	FSIS	Full Spectrum Imaging System
	Cyanoacrylate Fuming	control print developed, Cyanosafe used for 20 min run time
	Powder Dusting	black magnetic powder
	Dye Stain	RAY, batch # 775, visualized with 420-470nm ALS with orange filter

TABLE 2 - Item 1

WebCode	Development Methods	Method Details
ZR4M8Z	Visual Examination	Examined using natural light, flash light, UV, ALS, LASER, and SUV.
	Cyanoacrylate Fuming	Development was approximately 10 minutes. Examined using natural light, flash light, UV, ALS, LASER, and SUV.
	Dye Stain	Ardrox with UV excitation.
	Dye Stain	Rhodamine 6G with LASER excitation.
	Powder Dusting	Black fingerprint powder.
ZWG9BZ	Visual Examination	white light, diferent angles
	Alternate Light Source	Foster&Freeman Lite ML2 (350-380nm, 395-425nm, 445-510nm, 480-560nm with required filters)
	Cyanoacrylate Fuming	Foster&Freeman MVC3000 - about 3 minutes fuming (120 Celsius degree, 80% RH)
	Dye Stain	Basic Yellow 40 (ethanol based CAST recepture)
	Vacuum Metal Deposition	West Technology VMD360 - Au/Zn

Item 1 - Development Response Summary

Participants: 303

Methods Utilized

Alternate Light Source	122	Physical Developer	3
Cyanoacrylate Fuming	252	Powder Dusting	152
DFO	0	Visual Examination	226
Dye Stain	163	Wet Powder Suspension	2
Ninhydrin	2	1,2-Indanedione	0

****Note:** Methods listed are the preloaded options for selection via the CTS Portal and do not reflect all answers provided by participants.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
229XB6	Visual Examination	
	Alternate Light Source	365nm, 495nm
	Cyanoacrylate Fuming	15 minutes at 80% humidity
	Powder Dusting	black non-magnetic
	DFO	20 minutes at 100 degrees Celsius
	Ninhydrin	20 minutes at 70 degrees Celsius and 65% humidity
233UBY	Visual Examination	Magnifier and light
	Cyanoacrylate Fuming	.36 grams of superglue
	Powder Dusting	Black magnetic fingerprint powder
237988	Powder Dusting	Magnetic Powder (Black)
24VJZL	Powder Dusting	mag black powder
29PMKD	Cyanoacrylate Fuming	
	Powder Dusting	magnetic powder
29QCRV	Cyanoacrylate Fuming	After fuming examined polarization filter and white light.
2HZMDT	Visual Examination	Some ridge detail visible in section A
	Cyanoacrylate Fuming	15 Drops of glue, in AIR SCIENCE chamber for 25 min. Control positive.
	Powder Dusting	Used magnetic Black powder
2KG724	Physical Developer (PD)	Conventional black powder is used using a fiberglass brush on the surface of item 2. Subsequently, the surface is cleaned using a Marabú brush, revealing the finger fragment located in quadrant A.
2KZ4HA	Cyanoacrylate Fuming	Fuming chamber: 80% humidity, 20 minutes purge, 14 minute cycle.
	Dye Stain	Basic Yellow sprayed on item, air dry, view with blue laser.
2QPLX7	Visual Examination	
	Alternate Light Source	UV, Crimescope & RUVIS
	Cyanoacrylate Fuming	microburst
	Powder Dusting	magnetic powder
	DFO	placed in heat chamber for 20 minutes
	Ninhydrin	
	Dye Stain	RAY, viewed using UV & Crimescope
2RJXU	Ninhydrin	Holding caan upright - inches from surface and spaying area uniformly until damp, then wait 2-3 minutes and put it in the microwave for 2 minutes.
2TU9BB	Cyanoacrylate Fuming	Fuming for 1 hour
	Powder Dusting	Black powder
	1,2-Indanedione	with humidity

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
3242WQ	Visual Examination	I visually looked at the sample with a magnifying glass and saw ridge detail in area "A".
	Powder Dusting	I used Mag Powder to process the areas and I developed a print in area "A".
34QML8	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Powder Dusting	
	1,2-Indanedione	
	Dye Stain	
	Physical Developer (PD)	
3AEBHY	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	1,2-Indanedione	
	Dye Stain	
3AKBRE	Cyanoacrylate Fuming	MV, 25 minutes glue time
3BD9YL	Cyanoacrylate Fuming	
	Powder Dusting	Green magnetic powder
3ER789	Cyanoacrylate Fuming	Fumed under vacuum
3KYFU6	Visual Examination	
	FSIS	FSIS
	Cyanoacrylate Fuming	CA fuming 20 minutes, atmospheric
	Dye Stain	Basic Yellow 40 dye stain
	LASER	LASER
	Powder Dusting	Magnetic Black Powder
3LU43R	Visual Examination	06/15/2022: Visually examined under a LED light
	Cyanoacrylate Fuming	06/15/2022: Fumed in Cyanosafe with a positive control print and observed under a LED light
	Powder Dusting	06/16/2022: Black magnetic powder was used and as observed under a LED
	Ninhydrin	06/16/2022: Ninhydrin batch #306 used and placed inside a Caron chamber and observed under a LED
	Physical Developer (PD)	06/22/2022: PD batch #502 used and observed under a LED

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
3MM3BY	Visual Examination	
	Powder Dusting	
	Dye Stain	both MEK ardrex and aqueous rhodamine
	DFO	
	Ninhydrin	after ninhydrin, Zinc Chloride was also applied
	Physical Developer (PD)	
3N2BJY	Visual Examination	Visual examination using magnifier and oblique lighting. No ridge detail was observed.
	Cyanoacrylate Fuming	Processed for approximately 10 minutes. Ridge detail was observed.
	Alternate Light Source	Placed item under UV lighting. Observed ridge detail.
	Powder Dusting	Black powder was used. 1 lift was obtained.
3PCD4C	Visual Examination	
	Cyanoacrylate Fuming	Processing time 6.5 minutes. Print was visible after process.
	Powder Dusting	Print was visible after process.
	1,2-Indanedione	No visible print.
3RZMFY	Visual Examination	Visual exam performed under white light and alternative light sources.
	Cyanoacrylate Fuming	Fuming for 10 minutes. Cyanoacrylate allowed to harden over a twenty-four hour period.
	Powder Dusting	Black powder
	Ninhydrin	Ninhydrin was applied to the item, which was then placed in a humidity chamber for 3 minutes at manufacturer's recommended settings (80 degrees Celsius / 65RH%).
3XAVQ2	Visual Examination	RD noted no pattern type discernable in Quadrant A in foil line area.
	Alternate Light Source	Mini-Crimescope, all wavelengths available, no additional RD noted.
	Cyanoacrylate Fuming	SafeFume Chamber- run time cycle approx.25 minutes, let set overnight-additional RD noted.
	Powder Dusting	Bichromatic powder, additional RD noted, right loop pattern visible in Quadrant A on foil line.
	1,2-Indanedione	Sprayed, allowed to dry, added humidity with humidity chamber, no additional RD noted.
	Ninhydrin	Sprayed, allowed to dry, added humidity with humidity chamber, no additional RD noted.
	Fluorescent dye-Rhodamine 6G	Sprayed, allowed to dry, viewed with Mini-Crimescope 515nm, no additional RD noted.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
3YETTG	Visual Examination	create control using similar substrate, nothing observed on test item
	Alternate Light Source	nothing observed
	Cyanoacrylate Fuming	in CA chamber with control item, observed in quadrant A
	Dye Stain	added Rhodamine 6G
	Alternate Light Source	observed using Forensic Light Source
	Powder Dusting	used magnetic powder
3ZDTXN	Visual Examination	white light and LASER
	Cyanoacrylate Fuming	70 minute run time
	Powder Dusting	Black powder
	DFO	20 minute dry oven time
	Ninhydrin	3 minute humid oven time
47XDFU	Visual Examination	Visual examination under white light and magnification was completed on June 28, 2022. Print observed in quadrant A.
	Cyanoacrylate Fuming	Processing in the CyanoSafe (Crime Scene Unit) recirculation chamber was completed on June 28, 2022. Processed in the chamber for 12 minutes and let stand for 60 minutes. Test print positive. Print observed in quadrant A.
	Powder Dusting	Black Magnetic Powder was applied and examination under white light and magnification was completed on July 12, 2022. Print observed in quadrant A.
	Ninhydrin	Ninhydrin (Batch# 307) and processing in the CARON Chamber on July 14, 2022. Item was examined under white light and magnification. No enhancement observed.
	Physical Developer (PD)	Processing was completed on July 20, 2022 by Latent Print Technician, Batch# 503. Item was examined under white light and magnification on 7/22/22. No enhancement observed.
4CHH33	Cyanoacrylate Fuming	
	Dye Stain	Rhodamine 6G
	Alternate Light Source	
4EQL2K	Visual Examination	Visual examination with white light. No visible latent/patent prints observed. The item contained two surface types– non-porous (foil) and semi-porous (multi-colored paper).
	Cyanoacrylate Fuming	CA fuming time: ~5 min, Purge cycle: ~10 min.
	Powder Dusting	Black magnetic powder was used for latent print development. Ridge detail of possible value observed in quadrant A (shiny foil striped area only).
4NTTUY	Black magnetic powder	I did a visual inspection of the finger print in the item, then I used an alternate light in oblique direction, later I used black magnetic powder to develop the finger print and it was located in the letter A.
68PPVU	Powder Dusting	Black magnetic powder was used to process Item 2. A latent print was developed in section A.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
69YJQT	Visual Examination	A visual examination was performed on the wrapping paper. I observed ridge structure of no comparison value.
	Alternate Light Source	LabKam was used to visualize the evidence, with ridge structure of no comparison value being observed.
	Cyanoacrylate Fuming	The wrapping paper was placed in a cyanoacrylate chamber for 15 minutes at approximately 120 degrees Celsius. Ridge structure of no comparison value was observed.
	Alternate Light Source	LabKam was used to visualize the evidence, with one latent fingerprint of comparison value being observed.
	Powder Dusting	Black powder was applied to the evidence, with ridge structure of no comparison value being observed.
6AAKB8	Visual Examination	
	Alternate Light Source	Rofin Polilight PL500
	Cyanoacrylate Fuming	Safe Fume Chamber, RH 80%, 20min
	Powder Dusting	Bichromatic
6FGUX3	Cyanoacrylate Fuming	Fumed for approximately 1 hour under negative pressure.
	Dye Stain	Stained with Rhodamine 6G on foil.
	DFO	Treated paper with DFO heated to 100 degree C for approximately 20 minutes.
6GA3PJ	Visual Examination	
	Cyanoacrylate Fuming	automatic fuming chamber for approx 15 minutes.
	Powder Dusting	Magnetic powder on non-metallic portion of paper
	Visual Examination	
	Powder Dusting	Black powder on metallic portion of paper
	Visual Examination	
6NL9DA	Cyanoacrylate Fuming	718% humidity for 18 minutes
	Powder Dusting	magnetic powder
6PMYNX	Magnetic Powder Gray	A visual inspection with alternative light was made of the piece of evidence. The piece of evidence was worked with magnetic powder gray.
6QWYQK	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	Lumicyano
	Powder Dusting	
	DFO	
	Ninhydrin	

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
6ZMHAY	Visual Examination	The item was visually examined with fluorescent light for about 1 to 2 minutes. An area of ridge detail of no value was observed.
	Alternate Light Source	The item was examined with alternate light sources (ALS) for about 2 minutes, 445nm - 510nm and 368nm - 380nm. This took about 5 to 10 minutes. An area of ridge detail of no value was observed.
	Laser	The item was examined using a laser at 532nm. An area of ridge detail of no value was observed. This took about 2 minutes.
	Cyanoacrylate Fuming	The item was processed with cyanoacrylate for 15 minutes when the relative humidity reached 80% and then purged for 10 minutes. The item was examined/evaluated. This took about 2 minutes. A quality check test with a natural test print was placed with the item and the result was positive. An area of ridge detail of no value was observed.
	Powder Dusting	Black conventional powder was used to process the item. The item was examined. This took about 5 minutes. An area of ridge detail of no value was observed.
	1,2 Indanedione Zinc Chloride	A porous reagent was applied to the item, 1,2 Indanedione Zinc Chloride. Before application a quality check test strip was performed, using a natural test print and it was positive. The item was placed into the humidity chamber at 70 degrees Celsius and 65% relative humidity for about 20 minutes. The item was evaluated. An area of ridge detail of no value was observed. This took about 2 minutes.
783GLP	Visual Examination	Visual examination under white light and magnification on 7/19/2022 (Fluorescent). Number of items confirmed.
	Cyanoacrylate Fuming	CA - CyanoSafe (LP) recirculation chamber (test print positive) on 7/19/2022. Number of items confirmed
	Powder Dusting	Magnetic powder on 7/20/2022. Number of items confirmed.
	Ninhydrin	Ninhydrin (307) and processing in the CARON on 7/20/2022. Number of items confirmed. No prints
	Physical Developer (PD)	Physical Developer (503) on 7/20/2022. Number of items confirmed. No prints
7BFCU8	Visual Examination	Visual examination (visible reflection). Date analyzed : 15/06/22. Room temperature = 23°C. Relative humidity = 56 %
	Cyanoacrylate Fuming	Superglue fuming : Lumicyano Powder™. Date analyzed : 15/06/22. Glue temperature = 118°C. Relative humidity = 76 %. Processing time = 40 mn
	Visual Examination	Visual examination (visible reflection + fluorescence). Date analyzed : 15/06/22. Room temperature = 23°C. Relative humidity = 56 %
7DQ6Y8	Cyanoacrylate Fuming	Fuming for 1 hour
	DFO	20 minutes in oven at 100 degrees C
	Powder Dusting	Black powder
7QCPBN	Visual Examination	(+) Results
	Powder Dusting	(+) Results (black magnetic powder)
	Cyanoacrylate Fuming	(-) Result as it did not enhance ridge detail.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
7QGUYD	Alternate Light Source	Viewed at 455-515nm with ALS for fluorescing prints with negative results.
	Cyanoacrylate Fuming	Fumed for 20 minutes in CyanoSafe.
	Powder Dusting	Dusted with black powder.
7R6DW6	Cyanoacrylate Fuming	
7TFH89	Cyanoacrylate Fuming	Foster & Freeman MVC1000 used for processing Cyanoacrylate, Lot # 042621-04 Chamber Settings: Relative Humidity 80%, Glue Temperature 120 degrees Celsius, Humidify time and glue time of 10 minutes
	Powder Dusting	Magnetic powder, Lot # 112719-01
7XFJFH	Visual Examination	viewed under white light
	Alternate Light Source	viewed with ALS using both 350nm and 515nm
	Cyanoacrylate Fuming	in chamber fuming for approximately 15 minutes, test prints developed
	Powder Dusting	used magnetic powder
7Y7RFK	Visual Examination	
	Vacuum Metal Deposition	silver + zinc
88A9JW	Visual Examination	White light, different angles. Print was lightly visible (photographed with white light).
	1,2-Indanedione	NinCHA M31, humidity 65%, temperature 65°c degrees, time 30 minutes. Print unchanged, no improvement.
	Cyanoacrylate Fuming	Payton CYVAC M Forensic Fingerprint Vacuum Machine.
	Basic Yellow 40	
	Alternate Light Source	Crime Lite 42S, OG590 (480-560mm) with Glasses OG590AG, print was lightly visible (photographed with alternate light source).
88FCK3	Powder Dusting	I used black magnetic powder processing technique for this item of evidence.
88WLFN	Visual Examination	White light and magnification
	Cyanoacrylate Fuming	Cyvac 40 minutes
	Powder Dusting	Magnetic bi-chromatic powder
	Ninhydrin	Caron 30 minutes. Batch 307
	Physical Developer (PD)	Maleic Acid 10 minutes PD 10 minutes Batch 503
8AHJFZ	Cyanoacrylate Fuming	CNA- 45 minutes
	Powder Dusting	Black powder

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
8U9TH2	Visual Examination	Initial visual examination with white light and light source, blue and green light. During the visual examination with white light parts of a fingerprint was visible in section A. But for better results we added more methods. No photography was preformed after the visual examination.
	Cyanoacrylate Fuming	CNA- 1,4 g glue, humidity 80 %, heat 120 degrees, 4 minutes processing time. Teststrip positive. The fingerprint was visible in section A. The fingerprint was photographed after this method. But for better visibility we added more methods.
	Powder Dusting	We used powder dusting to get better visibility. The fingerprint was visible in section A. The fingerprint was photographed after this method.
928CHB	Visual Examination	
	Cyanoacrylate Fuming	A control test and the test item were processed with cyanoacrylate fuming for about 5 min. at room temperature and controlled humidity condition. Only one print was observed on quadrant A.
96MZ39	Cyanoacrylate Fuming	Fuming with oblique lighting
	Dye Stain	MRM-10 and forensic blue light with orange filter to make print visible
9EPAEY	Visual Examination	
	Cyanoacrylate Fuming	Temperature on the heating plate 100°C. Humidification 80%, time 25 minutes
	Powder Dusting	
9EUL3V	Powder Dusting	First I applied the powder on the peace of plastic paper. Then I used the print brush to clean a little the area. Finally I take a photo of the latent print.
9J8DHN	Visual Examination	Visual examination with magnification and white light was used on 06/13/2022.
	Cyanoacrylate Fuming	Cyanoacrylate fuming was used on 06/13/2022. Item was placed in CA chamber for 12 minutes, purged for 10 minutes and allowed to dry for 1 hour.
	Powder Dusting	Magnetic powder was used on 06/16/2022. Magnetic powder was used to adhere to any possible ridge detail to enhance the quality of the print.
	Ninhydrin	Item was submerged in ninhydrin on 06/16/2022 for approximately 1 minute then taken to dry in fume hood. Item was placed caron chamber for approximately 20 minutes.
	Physical Developer (PD)	Item was submerged in physical developer on 06/22/2022 to possibly enhance the quality of the print.
9KUBFT	Visual Examination	
	Alternate Light Source	Las-Blu-UV
	Cyanoacrylate Fuming	RUVIS
	Powder Dusting	Magnetic
	1,2-Indanedione	532 nm
	Dye Stain	RAM Las-Blu-UV

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
9KXN8W	Visual Examination	
	Cyanoacrylate Fuming	20 minutes, RH 80%
	Powder Dusting	
9KZBNA	Visual Examination	White light, oblique lighting
	Cyanoacrylate Fuming	LabConco Fuming Chamber
	Powder Dusting	Black powder
9LTAWG	Visual Examination	Print partially visible.
	Alternate Light Source	Blue and green light source used with yellow and red filter. Print partially visible.
	Cyanoacrylate Fuming	Processing time 10 minutes. Print partially visible.
	Powder Dusting	'Swedish black' powder (charcoal). Print partially visible.
	1,2-Indanedione	Processing time 10 minutes. No visible print.
	Ninhydrin	Processing time 2 minutes. Print partially visible.
9M7Y4Z	Cyanoacrylate Fuming	Visual examination (000-495nm); photography; basic yellow; humidity 78,8%; temperature 130°C
9TX2DQ	Powder Dusting	Dusting using Black Powder with Brush
9U29EW	Visual Examination	visually examined with latent print detailed identified in section A
	Ninhydrin	Ninhydrin applied followed by a steam iron with negative results
	Oil Red O	Placed in a bag of oil red o and placed on an orbital shaker for 5 mins, rinsed with water. results developed in A
9VHXT6	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	(120°C ± 5°, 75% Relative Humidity ± 15%)
	Dye Stain	Ardrox (Wavelength: 415 nm, Filter: Yellow)
9VKM39	Cyanoacrylate Fuming	MV for 25 minutes
	FSIS	Used UV light, used scale in photograph, uploaded to Foray
9WTTJ3	Visual Examination	documented visual RD in box A using oblique flashlight
	Iumicyano	developed RD in box C (previously documented)
	Alternate Light Source	orange filter, 495nm
	Powder Dusting	black FP powder

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
ABQ7BJ	Visual Examination	Item was visually inspected for any latent prints.
	oblique lighting	A flashlight was used to search for any latent prints and documented.
	Alternate Light Source	forensic light source used to search for latent prints and documented
	Cyanoacrylate Fuming	The item was placed in a fuming chamber for about 5 minutes.
	Powder Dusting	Magnetic powder was used and then documented
	DFO	DFO was sprayed onto the item and allowed to dry. Then was placed in a fingerprint chamber for about 10 minutes.
	Alternate Light Source	The item was then looked under the forensic light source for any developed prints.
	Ninhydrin	Ninhydrin was sprayed onto the item and allowed to dry. Then it was placed in a fingerprint chamber for about 5-10 minutes.
	Dye Stain	Rhodamine 6G was sprayed onto the item and allowed to dry.
Alternate Light Source	The item was then looked under the forensic light source for any developed prints.	
ABRWL9	Visual Examination	Side lighting, Ring lighting, Flashlight
	Cyanoacrylate Fuming	15 minutes in CA chamber, Side lighting, Flashlight
	Powder Dusting	Magna/black powder, Side lighting, Flashlight
AQLLJQ	Powder Dusting	Processed with magnetic powder
ARXHNV	Visual Examination	
	Alternate Light Source	Mini-Crimescope, all wavelengths
	Cyanoacrylate Fuming	SafeFume Superglue chamber, allowed to dry overnight before subsequent processing.
	Powder Dusting	Bi-Chromatic
	1,2-Indanedione	Viewed with mini-crimescope at 515
	Ninhydrin	Allowed to sit overnight before subsequent processing.
	Dye Stain	Rhodamine 6G, viewed with mini-crimescope at 515
AT8GQQ	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Ninhydrin	
ATR9UA	Visual Examination	Oblique lighting to examine for latent prints and indented writing.
	Alternate Light Source	Crimescope wavelengths 455, 475, CSS, 495, 515
	Cyanoacrylate Fuming	Cyanosafe 20 minutes
	Powder Dusting	Black powder and brush

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
AVC3M4	Visual Examination	Polilight PL400
	Cyanoacrylate Fuming	Cyanopowder (1,2g), Air Science Safe Fume CA-30S, time 40 minutes, humidity 75%
	Powder Dusting	Magnetic Blitz Green powder (fluorescent); UV light (Labino Spotlight)
AVETV8	Cyanoacrylate Fuming	Mason Vactron, 25 minutes glue time
	Powder Dusting	Black magnetic powder, magnetic brush
AZAHGK	Visual Examination	Visual examination conducted under fluorescent light and magnifying lens. Gloves were worn.
	Cyanoacrylate Fuming	Item was placed into a cyanoacrylate fuming chamber and standard processing instructions for chamber were followed (12-15 drops cyanoacrylate, sufficient water, run for 12 minutes, leave sealed for 20 more minutes, allow to set for one hour). Item was examined under fluorescent light and magnifying lens. Gloves were worn at all times.
	Powder Dusting	Item was processed in a powder chamber using black magnetic powder. Item was then examined under fluorescent light and magnifying lens. Gloves were worn at all times.
	Ninhydrin	Item was submerged in Ninhydrin (batch 307) for 5 seconds before being dried in a fume hood. Once dry, item was placed in a "Caron" chamber at 60% humidity and 60 degrees for one hour. After the hour had passed, the item was removed and examined under fluorescent light and magnifying lens. Gloves were worn at all times.
	Physical Developer (PD)	Item was packaged, sealed, and transferred to the latent print unit within the lab for Physical Developer processing. Item was processed by the latent print unit, packaged, sealed, and returned to my custody for examination. Item was examined under florescent light and magnifying lens, being careful to expose the item to light for as little time as possible to prevent overdevelopment. Gloves were worn at all times.
B79B4K	Powder Dusting	A visual inspection was performed, alternating light was used, and photographs were taken to document the findings. Regular graphite powder was applied until the fingerprint was visualized.
BT46XT	Visual Examination	Visually examined item for any possible ridge detail using oblique white light and ambient light.
	Alternate Light Source	ALS used to examine item for any possible ridge detail.
	Cyanoacrylate Fuming	Cyanoacrylate chamber used under 80% humidity, 11 minutes, 120 degrees C. Test print included in run.
	Visual Examination	Visually examined item and test print post-cyanoacrylate fuming using oblique white light.
	Alternate Light Source	ALS used to examine item for any possible ridge detail.
	Powder Dusting	Utilized black magnetic powder to further enhance ridge detail on item and test print.
	Visual Examination	Visually examined item and test print post-powdering.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
BUYVWU	LCNA 1,2-Indanedione Ninhydrin	LumiCyano
BVTJDQ	Visual Examination Cyanoacrylate Fuming Powder Dusting DFO Ninhydrin	MAGNETIC FOLLOWED BY BLACK
BWKTCX	Cyanoacrylate Fuming Powder Dusting	The Cyanoacrylate Fuming Chamber was cleaned prior to use with 70% isopropyl alcohol, and clean butchers paper was laid on the bottom of the machine. This writer confirmed that there was enough water in the machine to function properly, and placed a control print on a clip in the machine. Approximately a quarter sized amount of super glue was poured into a tin cup and placed in the machine. Once the chamber was turned on, the chamber reached 70% humidity before it fumed for ten minutes and purged for ten minutes. Once this process was completed, the item was removed and observed for latent print detail. Proper PPE was used at all times: gloves, mask, and lab coat. Black magnetic powder was dusted onto the item's surface using a magnetic powder wand.
BX4ATL	Visual Examination Cyanoacrylate Fuming Powder Dusting Ninhydrin Physical Developer (PD)	Incandescent/flood lighting. Cyanosafe CSU. 12 minute cycle. Allowed to sit for approximately 1 hour. Black magnetic powder. Batch #307. Rinsed in solution for approximately 15 seconds, allowed to air dry. CARON chamber for approximately 30 minutes. Processed by LPT. Batch #503.
C6EX6Y	Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting	Oblique lighting. PRD Blue light (420-470 nm). PRD Lot #202109162. Expiration: 10/31/2022. Control: Positive. PRD Black powder. PRD.
CD4RUG	Visual Examination Alternate Light Source Cyanoacrylate Fuming Visual Examination Powder Dusting Alternate Light Source	Started with visual examination, no prints detected on the item. Then I used 450nm light source, but still no print was detected on the item. Because of the foil stripes and fine paper, I used Cyanoacrylate fuming. Humidity 75% and 10 minutes fuming time. By using white light a print was detected on the foil stripe in section A. Bad quality, but was able to see it was a right loop. I tried to improve the print by using a light touch of Magna Blitz green fingerprint powder. Used clear and yellow filters and 450 nm light source, but the print in section A did not improve.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
CEHCMR	Cyanoacrylate Fuming	On 07/17/22 at 0734 hrs. Cyanoacrylate Fuming (lot #202202520) Chamber #1 was used. The test print was positive. Dye stain was used (lot #J52322-02 exp. 03/26/23)
CEHE8P	Visual Examination	White light. No ridge detail observed
	Cyanoacrylate Fuming	Glossy paper so started with CA - 11 minute fume time in in Mystaire CA-6000 chamber
	Visual Examination	Photography - white light, ridge detail in Quadrant A.
	Dye Stain	R6G - Petroleum ether formula
	Alternate Light Source	Crimescope CS-16-500, 515nm,visualized using orange barrier filter goggles. Photography of possible ridge detail in quadrant A.
	1,2-Indanedione	IND with zinc chloride formula. 100 degrees C, 0% humidity in Nincha chamber for 30 minutes
	Alternate Light Source	Crimescope CS-16-500, 515nm,visualized using orange barrier filter goggles. No ridge detail developed.
	Ninhydrin	Petroleum ether formula. heat press for 10 seconds at 200 degrees C.
	Visual Examination	white light - No ridge detail developed.
CK8PNF	Visual Examination	Crimelite, TracER laser
	Cyanoacrylate Fuming	Foster & Freeman chamber, 70 mins
	Powder Dusting	Black Magnetic Powder
	DFO	Dry Oven, 100 Degrees Celsius for 20 mins
	Ninhydrin	Humid Oven, 65% Humidity 80 Degrees Celsius for 3 mins
CNRL8Y	RUVIS	Viewed with RUVIS before and after cyvacing.
CQDL8E	Visual Examination	Used Crimelite, TracER laser, and incandescent lighting
	Cyanoacrylate Fuming	Fumed in the MVC 5000 cabinet for approximately 70 minutes.
	Powder Dusting	Black powder dusting
	DFO	Incubated in the DFO oven for approximately 20 minutes
	Ninhydrin	Incubated in the Ninhydrin oven for approximately 3 minutes
CWLR4L	Visual Examination	oblique lighting, ridge structure no collection value (no photograph taken at this step)
	Alternate Light Source	LabKam; ridge structure collection value
	Cyanoacrylate Fuming	MVC5000, positive control; ridge structure no collection value
	Alternate Light Source	LabKam; ridge structure collection value
	Powder Dusting	Black magnetic; ridge structure collection value

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
CZXR4J	Visual Examination	Item was examined for visible friction ridge detail under white light magnification.
	Ninhydrin	Item was submerged in a ninhydrin (NIN) bath and agitated until completely wet, then hung up to dry in a fume hood until completely dry, then placed in the CARON chamber at a humidity level of 60% for approximately 30 mins, then examined for friction ridge detail under white light magnification.
	Powder Dusting	Item was dusted with black magnetic fingerprint powder and examined for friction ridge detail under white light magnification.
	Physical Developer (PD)	Item was submitted to the Latent Print Unit for further processing. LPT conducted the processing on 7/20/22 with batch #503. After processing, the item was examined for friction ridge detail under white light magnification.
D36EBV	Cyanoacrylate Fuming	Observed positive results on panel A with white light.
	Dye Stain	Used Rhodamine and observed positive results on panel A with ALS 505 wavelength.
	Powder Dusting	Item was processed with black monochromatic powder.
D4FA2U	Visual Examination	with ambient light and white light
	Cyanoacrylate Fuming	74% RH, 71F for 9 minutes
	Powder Dusting	Powder, black magnetic
D8UWML	Visual Examination	I examined the piece visually for one minute to see if the latent print could be identified, but it could not be seen.
	Alternate Light Source	For one minute examine the piece using an alternating white light to see if the latent print could be identified, it could be visualized.
	Powder Dusting	The latent print was processed with black powder.
D9R8KA	Cyanoacrylate Fuming	Gentian Violet
DEXTGK	Visual Examination	The item was visually examined using white light and magnification.
	Cyanoacrylate Fuming	12- 15 drops of cyanoacrylate were added to a metal cup and placed on the heating element. A test print was added to the chamber and the distilled water well level was checked. Item was placed in the chamber to allow for the entire surface to be exposed to the CA vapors. The cycle ran for 12 minutes and then a 10 minute purge cycle. Item was allowed to sit undisturbed for 1 hour. The item was visually examined using white light and magnification.
	Powder Dusting	Black powder was applied to the item with a brush. The brush was dipped into the powder with the excess powder being shaken off. The brush is lightly run over the item in a circular motion. The item was visually examined using white light and magnification.
	Ninhydrin	The item was immersed in a small tray of solution until the entire surface of the item was wet. The item was allowed to completely dry in the fume hood. Once the CARON chamber reached 60 degrees Celsius and 60% humidity the item was placed inside for approximately 30 minutes. The item was visually examined using white light and magnification.
	Physical Developer (PD)	Processing was completed by Latent Print Technician on 06/22/22, Batch #502. The item was visually examined using white light and magnification.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
DG673R	Visual Examination Powder Dusting	Black magnetic powder.
DHYULN	Visual Examination Cyanoacrylate Fuming Visual Examination Powder Dusting	ridge detail observed in box A, tried direct and oblique lighting to photo, but detail was too faint 30 minutes friction ridge detail still too faint to photo black powder used to enhance the friction ridge detail
DJRTUU	Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting DFO Ninhydrin Dye Stain	20 minutes in chamber black magnetic powder ALS RAY ALS
DN4VKW	Visual Examination Powder Dusting	Item was visually examined prior to any processing. Magnetic powder applied to item to develop and visualize the latent fingerprint. (Quadrant A)
DQCVWQ	Visual Examination Cyanoacrylate Fuming Visual Examination	White light, coaxial light, blue light, UV reflexion Lumicyanoacrylate (hygrometry >75%, 15 minutes) White light, coaxial light, blue light
DVHT2N	Visual Examination Alternate Light Source Powder Dusting	I performed a visual examination to locate the fingerprint. I used a white light flashlight in an oblique direction to highlight the fingerprint . I used magnetic black powder to lift the fingerprint with the magnetic brush.
E3YJ6V	Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting	Visual-no print observed ALS-no print observed CA Fuming 5 Min Lot #: CA210628 Print Section A Black Powder Lot #: BP171017 Print Section A
EAGUEP	Powder Dusting	Inspected the object visually. Item was processed in about five minutes using magnetic powder.
ELWM6K	Powder Dusting	Inspected the object visually. Item was processed in about five minutes using graphite black powder and a feather duster.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
ELWZBD	Visual Examination Cyanoacrylate Fuming Powder Dusting DFO Ninhydrin	Black powder
EQ678J	Visual Examination Cyanoacrylate Fuming Alternate Light Source Powder Dusting Alternate Light Source	Evidence was visually examined. ridge structure was noted in quadrant A, but ridge structure was not comparison value. no photographs were taken evidence was placed in MVC1000A chamber. positive control. after fuming, same ridge structure was observed in quadrant A, but ridge structure was not comparison value. no photographs were taken evidence was examined with LabKam. same ridge structure was observed in quadrant A. ridge structure was comparison value, was marked Latent 1B-1 and photographed evidence was powdered with black, magnetic powder, which further developed the ridge structure in quadrant A. ridge structure of Latent 1B-1 was comparison value and photographed Crimescope was used on the white light setting to capture all of the ridge structure of Latent 1B-1 in quadrant A. photographs were taken
EVF4QZ	Visual Examination Cyanoacrylate Fuming Dye Stain 1,2-Indanedione Ninhydrin	Before enhancement : - Incident and field lightning with white light (crimelite 2) - Raking light (crimelite 2) Lumicyano (2,835g - 120°C - 80% humidity - 25') in a Foster&Freeman MVC 3000 Cabinet Visual examination with : - white light (crimelite 2) - UV 365nm (labino MB 3.0 Selene) with yellow filter - Green light 515nm (crimescope) with orange filter - Green light 535nm (crimescope) with red filter Rhodamine 6G Visual examination with : - Green light 515nm (crimescope) with orange filter - Green light 515nm (crimescope) with red filter - Blue Green light 505nm (rofin polilight flare 2+) with orange filter With hot press 165°C during 10s Visual examination with : - Green light 515nm (crimescope) with orange filter - Green light 515nm (crimescope) with red filter - Blue Green light 505nm (rofin polilight flare 2+) with orange filter 24h processing in a dark and humid environment Visual examination with white light (crimelite 2)
F4P3LM	Visual Examination Cyanoacrylate Fuming Visual Examination Powder Dusting Alternate Light Source	I used a flashlight to examine for patent prints. I fumed the item in a chamber for 15 minutes. Flashlight to examine for latent prints. I dusted the item using green fluorescent powder. I viewed the item using an Ultralite at 450nm and orange goggles.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
F4QTWB	Visual Examination	Visual examination using ambient lighting, incandescent lighting, Crimelite
	Cyanoacrylate Fuming	Fuming for 75 min cycle in F+F CVC 5000 chamber. Viewed using ambient lighting, incandescent lighting, Crimelite
	Powder Dusting	Black powder dusting
	DFO	DFO application and placed in oven at 100C for 20min. Viewed using TracER laser
	Ninhydrin	Ninhydrin application and placed in oven at 80C for 3min
F6ZZY4	Visual Examination	
	Alternate Light Source	Flashlight
	Cyanoacrylate Fuming	Fuming chamber processing time of 10 minutes and a purge time of 10 minutes. Humidity set to 70%.
	Alternate Light Source	Flashlight
	Powder Dusting	Fluorescent powder
	Powder Dusting	Fluorescent magnetic powder
	Dye Stain	Rhodamine 6G methanol solution and methanol rinse.
	Alternate Light Source	Coherent Laser
F8ULVG	Visual Examination	Visual examination under white light and magnification on June 29, 2022. Prints were observed on section A.
	Cyanoacrylate Fuming	CyanoSafe (Crime Scene Unit) recirculation chamber on June 29, 2022. Test print positive. Prints were observed on section A.
	Powder Dusting	Magnetic powder on June 29, 2022. Prints were observed on section A.
	Ninhydrin	Ninhydrin (batch #307) and processing in the CARON on June 29, 2022. No enhancement.
	Physical Developer (PD)	Physical Developer (batch #503) on July 20, 2022 by [name]. No enhancement.
FB97VB	Visual Examination	
	Cyanoacrylate Fuming	
	Powder Dusting	Black transient powder
FBAW7Y	Visual Examination	Visual examination of the foil striped wrapping paper. Ridge detail was observed in quadrant A. See photography preservation method below.
	Cyanoacrylate Fuming	The item was placed into the superglue chamber. Superglue was added into an aluminum dish and placed that onto a hot plate inside the chamber. A glass beaker with hot water was added in the chamber to provide humidity. A control print was placed onto the inside of the glass of the chamber to ensure the superglue was fuming properly. The chamber was turned on and let the superglue fumes adhered to any ridge detail. The item was left inside the chamber for approximately 15 minutes. Once the positive control turns white from the superglue, the chamber was turned off and vented the chamber.
	Powder Dusting	Applied black powder with disposable bush. Ridge detail developed in quadrant A.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
FBPHDF	Visual Examination	Visual examination under fluorescent light and magnification.
	Cyanoacrylate Fuming	The Cyanosafe was set up with twelve (12) drops of cyanoacrylate into one (1) medium metal cup on a hot plate, distilled water well filled, and test print placed inside. The chamber ran for 12 minutes and the purge process was completed. The item was allowed to dry for one (1) hour. Test print positive. Visual examination under fluorescent light and magnification.
	Powder Dusting	Magnetic black powder was applied with a magnetic wand. Visual examination under fluorescent light and magnification.
	Ninhydrin	The item was immersed into a tray of Ninhydrin (Batch 306) until all surfaces were completely wet. The item was allowed adequate time to completely air dry. The item was placed into the CARON chamber at sixty (60) degrees Fahrenheit and sixty (60) percent humidity for one (1) hour, checking after every fifteen (15) to thirty (30) minutes. Visual examination under fluorescent light and magnification.
	Physical Developer (PD)	The item was processed with Physical Developer (Batch 502) by Latent Print Technician. Visual examination under fluorescent light and magnification.
FBR6WE	Visual Examination	Visual Exam - Magnified LED Lighting. Print observed.
	Cyanoacrylate Fuming	CyanoSafe time - 20 minutes with 1 hour drying time. Test print positive. LED Magnified Lighting. Print enhanced.
	Powder Dusting	Black magnetic powder. Print enhanced.
	Ninhydrin	Ninhydrin, Batch #305, used for approx. 1 minute, observed under a LED magnified light and then the Caron Heat Chamber for 45 minutes. No enhancement.
	Physical Developer (PD)	Physical Developer Batch #500. Processing Times: Maleic - 10 min.; PD - 10 min., LED magnified lighting. No enhancement.
FCFPDJ	Visual Examination	I examined the piece for a minute and I was able to identify the latent print.
	Alternate Light Source	I examined the piece using an alternative white light and confirm the latent print in the letter A.
	Cyanoacrylate Fuming	The latent print was processed with Cyanoacrylate for a few minute.
	Crystal Violet	The latent print was processed with Crystal Violet.
FENQNH	Visual Examination	I looked at Item 2 under LED lighting before any processing had been done to it.
	Cyanoacrylate Fuming	I put Item 2 in the Cyanosafe. It was in the "running" mode for 12 minutes and the "purge" mode for 10 minutes. Then I let it rest for 1 hour before handling it again. After the hour, I looked at the item under LED lighting.
	Powder Dusting	Because I Item 2 was semi-porous, I dusted it with black magnetic powder.
	Ninhydrin	I submerged Item 2 in ninhydrin for approximately 1 minute, let it dry in a fume hood, and then put it in the Caron chamber for approximately 20 minutes.
	Physical Developer (PD)	Item 2 was submerged in a physical developer solution at the end as a last attempt at enhancing any ridge detail.
FENQUJ	Cyanoacrylate Fuming	127°C, 80% rel. humidity, fuming for 2min
	Powder Dusting	

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
FFLZM2	Visual Examination	Using eyesight + light sources. In existing light, and UV-light (Crimelite), a fingerprint on sector A. The print was comparable and it was photographed as such using UV-light. With blue light (Obelux), no visible prints.
	Cyanoacrylate Fuming	Using Foster & Freeman MVC 3000 D 3000 (time 10 minutes, humidity 80%, glue temperature 230 degrees Celcius, glue Polycyano). Test print as per work instructions. The glue stuck to test print. In item 2 the print on section A, around the metallic/hologram stripe, become more visible, but it did not enhance significantly, fluorescence with UV-light was weak.
	Powder Dusting	Magnetic powder: The print was treated with magnetic powder and photographed again. The treatment made the print worse.
FJHQZR	Powder Dusting	
FJRJ6	Visual Examination	Visual Examination and Oblique Lighting. Friction ridge detail observed in quadrant "A" with oblique lighting.
	Alternate Light Source	Forensic Light Source. Friction ridge detail observed in quadrant "A".
	Cyanoacrylate Fuming	Friction ridge detail observed in quadrant "A"
	Powder Dusting	Magnetic Powder. Friction ridge detail observed in quadrant "A"
	DFO	No friction ridge detail observed.
	Ninhydrin	No friction ridge detail observed.
	Dye Stain	No friction ridge detail observed.
FKUA2N	Cyanoacrylate Fuming	
	Powder Dusting	
FM76MG	Visual Examination	Item was visually examined using LED light under magnification.
	Cyanoacrylate Fuming	Item was placed into a circulation chamber for 12 minutes to process and an additional 10 minutes were dedicated so that the instrument could purge. Item was left to sit and allow CA to harden for approximately 1 hour. Item was examined using LED light under magnification.
	Powder Dusting	Item was dusted using magnetic black powder. The entire item was dusted. Item was examined under LED light and magnification.
	Ninhydrin	Item was fully submerged into ninhydrin solution. Item was the hung in a hood to dry. After item was dry, it was placed in a humidity chamber. Item was periodically checked for enhancement while inside the instrument. Item was in the humidity chamber for approximately 1 hour. Item was examined under LED light and magnification.
	Physical Developer (PD)	Item was processed in physical developer by a latent print technician on 6/22/22. Item was examined under LED light and magnification.
FNWCLJ	Powder Dusting	Perform a visual inspection, to locate the footprint. And alternating light was used white light, then gray magnetic powder was used. Lift the footprint with a clear plastic patch. It was preserved in photo. The footprint is located in the letter A.
FPNDLF	Powder Dusting	1. Visual examination, using light source. 2. Magnetic powder dusting. 3. Visual examination. 4. Photography

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
GA4HJP	Visual Examination	Visual examination using CrimeScope's light source
	Cyanoacrylate Fuming	Processing with the Cyanoacrylate for 20 minutes
GFF29J	Alternate Light Source	An alternating white light was used to verify the location of the fingerprint
GJ3QG3	Visual Examination	
	Cyanoacrylate Fuming	
	Powder Dusting	
	DFO	20 mins in DFO
	Ninhydrin	3 mins in NIN
GKCVUQ	Visual Examination	white light, oblique
	Cyanoacrylate Fuming	white light, oblique
	Powder Dusting	Black magnetic powder white light, oblique
GKWCCE	Visual Examination	fluorescent light
	FSIS	Full spectrum imaging system, UV light
	Cyanoacrylate Fuming	cyanosafe ca chamber
	Powder Dusting	magnetic
	Ninhydrin	batch #306
	Physical Developer (PD)	batch #502
GLNKAW	Visual Examination	
	Cyanoacrylate Fuming	(120°C ± 5°, 75% Relative Humidity ± 15%)
	Powder Dusting	
GMZAGF	Visual Examination	Examined with white light and magnification on 6/10/22.
	Cyanoacrylate Fuming	Placed in Cyanosafe on 6/10/22. Examined with white light and magnification.
	Powder Dusting	Dusted with magnetic black powder on 6/10/22. Examined with white light and magnification.
	Ninhydrin	Submerged in Ninhydrin, Batch #306, then air dried on 6/10/22. Placed in humidifying machine: CARON Examined with white light and magnification.
	Physical Developer (PD)	Processed by LPT on 6/22/22, Batch #506. Examined with white light and magnification on 6/24/22.
GNQK89	Visual Examination	With the use of a magnification and fluorescent light.
	Powder Dusting	With the use of black powder to enhance the contrast of the finger print.
GPHHFF	Cyanoacrylate Fuming	Visual examination, ref-UV cam, and after that Lumicyano fuming.
GUCF7R	Cyanoacrylate Fuming	Fuming chamber for 32 minutes.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
GV6DEX	Cyanoacrylate Fuming	30 minute processing time
	Powder Dusting	black powder
	Dye Stain	Ardrox
GZHCQR	Visual Examination	faint ridges seen
	Cyanoacrylate Fuming	Chamber #1, 15 min, 73 degrees F, 80% humidity, lot# UR18419
	Powder Dusting	Black magnetic powder
	Dye Stain	R6G (H2O) lot# LP06031920
H34BNL	Visual Examination	
	Alternate Light Source	High intensity light source examination using a range of lights: Green, blue and UV
	Wet Powder Suspension	Black powder suspension, item prewetted prior to processing
H82MUK	Cyanoacrylate Fuming	
	Powder Dusting	White Powder
	Dye Stain	Basic Yellow
H82PBC	Cyanoacrylate Fuming	a visual examination was performed and a print was observed in section a this was then photographed with a scale, the print was light so i fumed it in a tank with cyanoacrylate which enhanced the print it was then photographed again with a sclae then dusted with magna brush powder and photographed agin with a scale.
H84CUB	Visual Examination	Ambient light, flashlight, laser
	Cyanoacrylate Fuming	MVC 5000, ambient light/flashlight
	Powder Dusting	Black powder, ambient light/flashlight
	DFO	DFO, oven, laser
	Ninhydrin	Ninhydrin, humidity chamber, ambient light/flashlight
HEK38P	Cyanoacrylate Fuming	
	Powder Dusting	
HJRLCA	Visual Examination	No latent print observed during this step.
	Cyanoacrylate Fuming	Fumed for approximately 10 minutes, no latent print observed during this step.
	Powder Dusting	Magnetic powder used to visualize latent print.
	DFO	Surface color of wrapping paper washed away, causing some details in the latent print to be less clear. Two orange filters used.
	Ninhydrin	Surface color of wrapping paper washed away, causing some details in the latent print to be less clear. Portion of print not on foil surface more visible than portion on foil.
	Dye Stain	Rhodamine 6G dye stain; portion of print on foil surface more visible than portion not on foil. Two orange filters used.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
HNPZ47	Visual Examination	Visual examination of the piece of glossy wrapping paper. No ridge detail observed.
	Cyanoacrylate Fuming	Fumed the item in the chamber for approximately 20 minutes with hot water for humidity.
	Powder Dusting	Applied magnetic powder with magnetic wand to the item and developed ridge detail in section A. No other ridge detail observed.
HPJNKF	Visual Examination	Visual examination under white light and magnification.
	Cyanoacrylate Fuming	Cyanosafe set up with fifteen (15) drops of cyanoacrylate in one (1) metal cup on a hot plate, distilled water well filled, and test print placed inside. Chamber ran for 12 minutes followed by the purge process. Process complete and item was allowed to dry for one (1) hour. Test print positive.
	Powder Dusting	Black powder applied with a brush.
	Ninhydrin	Ninhydrin batch #306. Item was immersed in a tray of solution until all surfaces were completely wet. Item was air dried thoroughly. Item was placed in the CARON chamber at 60 degrees F and 60% humidity for one (1) hour, checking after 30 minutes.
	Physical Developer (PD)	Physical Developer batch #502. Processing was completed by Latent Print Technician.
HQBMWT	Cyanoacrylate Fuming	Fuming Chamber, 80% Humidity, 20 minute purge, 14 minute cycle.
	Wet Powder Suspension	Magnetic fingerprint powder.
HR2WJF	1,2-Indanedione	Item 2 - cut each square in half horizontally, processed one half with InD with ALS.
	Cyanoacrylate Fuming	processed other half with CA and RAM with ALS
	Dye Stain	
HTY8CX	Physical Developer (PD)	
HU9EFQ	Visual Examination	Faint print was visible on a foil portion of the paper.
	DFO	DFO had minimal results, with the remainder of the print somewhat more visible when viewed with an ALS.
	Alternate Light Source	
	Ninhydrin	Negative results with Ninhydrin.
HV8D36	Visual Examination	06-02-22 16:00 - latent print located in quadrant "A"
	Alternate Light Source	06-02-22 16:30 - 532 nm Coherent Tracer Laser
	Cyanoacrylate Fuming	06-02-22 17:58 Vacuum chamber A, 40 minutes - latent print located in quadrant "A"
	Powder Dusting	06-02-22 19:00 Magnetic powder - latent print located in quadrant "A"
HWJ383	Cyanoacrylate Fuming	Processed with CAE in fuming chamber for 20 minutes.
	Powder Dusting	Applied black fingerprint powder to item after CAE application.
HWMQPG	Powder Dusting	Black magnetic powder and wand used for processing - No prints developed

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
HY8L6U	RUVIS	Examined with RUVIS
HY9CFH	Visual Examination	Examined the piece of glossy wrapping paper as is, using ambient lighting, oblique lighting, ultra violet light (UV), LASER, and alternate light source (ALS).
	Cyanoacrylate Fuming	Superglued the item in Superglue cabinet along with testprint for about 10 min. Checked under Short wavelength UV/FSIS camera.
	Dye Stain	Dyed stained the item with MEK Ardrex. Let it dry and checked under the UV light for any fluorescing superglued latent impressions.
	Dye Stain	Dyed stained the item with Aqueous Rhodamine. Let it dry and checked under the LASER light for any fluorescing superglued latent impressions.
	Powder Dusting	Dusted the entire item with carbon black powder.
	DFO	Dipped the item twice in DFO, let it dry for a few seconds, then put it in the oven (100°C) for about 20 min. Examined under LASER.
	Ninhydrin	Dipped the item in Ninhydrin, let it dry for a few seconds, then put in the humidity chamber (70°C) for about 10 min or until the latent impression turns Ruhemman's Purple.
	Zinc Chloride	Sprayed the item with Zinc Chloride. Examined under ALS.
	Physical Developer (PD)	Dipped the item in Maleic Acid for about 5 minutes, and then dipped the item into PD for 20 min. Let it dry under the lights.
HZJE43	Visual Examination	
	Cyanoacrylate Fuming	
	Powder Dusting	black powder
	Powder Dusting	magnetic powder
	Powder Dusting	fluorescent magnetic powder (photographed before this powder applied)
J7KVCM	Visual Examination	
	Alternate Light Source	UV: 350-380nm. Blue-Green 445-510nm
	Laser	Laser 532nm
	Cyanoacrylate Fuming	Fume time: 15min. Relative Humidity: 80%
	Powder Dusting	Black Magnetic powder
	DFO	Oven time: 20min. Temperature 100°C
	Ninhydrin	Humidity Chamber time: 20min. Temp: 70°C. Humidity: 65%
J8WU6B	Visual Examination	One (1) sheet multicolored paper. Impression detected in quadrant "A".
	Alternate Light Source	Inherent Luminescence Exam.
	Cyanoacrylate Fuming	Vacuum. 30 minutes.
	Powder Dusting	Magnetic black powder. Impression developed in quadrant "A".
J9U3DU	Cyanoacrylate Fuming	Fuming for 1 hour
	DFO	20 minutes in oven at 100 degrees C
	Powder Dusting	Bichromatic powder

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
JVZQUP	Visual Examination	Mark search was done by following ways: 1. White Light/Naked eye. Print found on Section A by White Light
	Alternate Light Source	Mark search was done by following ways: 1. Blue Light (445 nm) using Goggle (495 nm). 2. Green Light (532 nm) using Goggle (550 nm) Print found on Section A
	Cyanoacrylate Fuming	Processing Time: 45 mins, which includes Humidifying, Fuming and Purging. After 45 mins, Mark search was done using White Light. No additional mark found. Mark on Section A , enhanced
	Dye Stain	After Dying with BY40, kept to dry for 20 mins in fumehood. After 20 mins, Mark search was done using 445nm light (blue light) with goggle (495nm). No Additional marks found. But the mark on Section A , enhanced
K7K8DN	Powder Dusting	6/15/2022 Black Magnetic Powder Processing -Black Magnetic Powder and Magnetic Powder Applicator -Start - 1055 hours, End - 1105 hours
KDVHFN	Cyanoacrylate Fuming	15 minutes @ 80% humidity
	Powder Dusting	
KERUEW	Powder Dusting	Magnetic powder
KJ4X8K	Visual Examination	Visual ~20 minutes
	Alternate Light Source	ALS 368nm + 505nm
	Laser	Laser 532nm
	Cyanoacrylate Fuming	CA - 80% relative humidity + ~15min processing time
	Powder Dusting	Conventional black powder ~25 minutes processing
	1,2-Indanedione	reagent - 1,2-Indanedione Zinc Chloride ~20 minutes in chamber @ ~70° and ~65%RH exam @ 532nm
KKZKFH	Visual Examination	I Perform a visual inspection of the object to locate the fingerprint.
	Alternate Light Source	I used an alternating white light in an oblique direction to highlight fingerprint inaccuracies.
	Powder Dusting	I used magnetic powder to lift the fingerprint, black with your magnetic brush.
KRZWH7	Visual Examination	USING OBLIQUE LIGHTING
	Alternate Light Source	FORENSIC LIGHT SOURCE
	Cyanoacrylate Fuming	LOT # 202107027
	Powder Dusting	MAGNETIC POWDER
	Dye Stain	RHODAMINE 6G (LOT # R6G-032122)
	Alternate Light Source	FORENSIC LIGHT SOURCE WITH ORANGE FILTER
KUN7UT	Cyanoacrylate Fuming	Fumed for 1 hour.
	Powder Dusting	gray/silver magnetic powder
	Visual Examination	Prints viewed under normal lighting.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
KWCU2L	Visual Examination	Examination under white light and latent print was observed on A, but need to make it more clear shape.
	Cyanoacrylate Fuming	The fuming was initiated in the fuming chamber at least 15 minutes with humidity. The latent print was observed more clear on A under natural light. Latent print will fix by cyanoacrylate fuming.
	Powder Dusting	By using white powder and black GELifters to lift latent print from position A.
KXNF3A	Visual Examination	A fluorescent light was used while looking at the item at various angles under magnification.
	Cyanoacrylate Fuming	The item was placed into a CyanoSafe where I added distilled water to the cup heater element and put 18 drops of liquid cyanoacrylate into a foil cup. That foil cup was then placed on a heating element. A test print was made and hung in the chamber. The chamber was closed and it was turned on to run for 20 minutes. After the 20 minutes the chamber went through its purge cycle and I let the item sit for 60 minutes. I examined the item under a fluorescent light at various angles under magnification.
	Powder Dusting	Black magnetic powder was used and a magnetic wand was used to apply the powder in a fume hood. I examined the item under a fluorescent light at various angles under magnification.
	Ninhydrin	I poured the ninhydrin into a glass tray in a fume hood and it was batch 306. I immersed the item into the tray and hung it to dry in the fume hood. I turned on the Caron chamber before starting the process to get the settings where they need to be. When the chamber was ready I placed the item in the chamber and left the item in the chamber for 45 minutes. I examined the item under a fluorescent light at various angles under magnification.
	Physical Developer (PD)	This process was completed by Latent Print Technician and the batch number was 502. I examined the item under a fluorescent light at various angles under magnification.
KXQZUJ	Cyanoacrylate Fuming	Used the fuming chamber at the chambers settings. I observed a partial print
	Powder Dusting	Further processed this item with white fingerprint powder. I then used direct and oblique lighting to further enhance the latent.
LFX2TA	Visual Examination	An ocular inspection was performed on piece number two, which is divided into four parts in letters. A fingerprint was identified in the region A.
	Alternate Light Source	An alternating white light was used to verify the location of the fingerprint.
	Cyanoacrylate Fuming	The chemical cyanoclrirate was used for the development of the fingerprint.
	Powder Dusting	Black magnetic powder was used to make the fingerprint visible and lift it. the fingerprint and lift it.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
LRH4JG	Visual Examination	Natural light, flashlight, SUV/FSIS, Laser, UV, ALS
	Cyanoacrylate Fuming	SUV/FSIS
	Dye Stain	MEK Ardrex/UV
	Dye Stain	Aqueous Rhodamine/Laser
	Powder Dusting	Black powder
	1,2-Indanedione	Laser
	Ninhydrin [No Methods Reported.]	Zinc Chloride/ALS
LRVRMU	Forensic Light Source & Alternate Light Source	Using a handheld flashlight and a ROFIN PL500 polilight to conduct a visual examination of item-2, I found ridge detail of a recordable level within quadrant-A prior to chemical processing.
	Cyanoacrylate Fuming	Item-2 was placed into a CA chamber and exposed to Cyanoacrylate fumes for 18 minutes at 80% RH. Additional development was achieved through the CA process. A standards test was conducted during the CA process which yielded the expected results.
	Dye Stain	Once the Cyanoacrylate process was completed the ridge detail was treated with MRM10. Additional development was achieved with the application of MRM10, however to no benefit. A standards test was performed on this dye stain prior to being applied to testing materials. The MRM10 performed as expected.
LTB2RN	Visual Examination	I began processing with a visual examination using alternate light sources (white light, coaxial light, 450 nm, 505 nm, and laser light) and documented visible ridge detail.
	Cyanoacrylate Fuming	I placed the item into the Cyanoacrylate chamber for fuming (approximately 20 minutes), using a control (control exhibited expected results); allowed item to set for several minutes before removing from chamber. After processing with Cyanoacrylate, I examined the item with a white light and coaxial light and documented visible ridge detail. I allowed the Cyanoacrylate to set on the item for approximately 24 hours and continued with processing.
	Powder Dusting	Due to the item being glossy/semi-porous, I then processed with black magnetic powder. I documented visible ridge detail via photographs and a tape lift placed upon a latent lift card.
	Dye Stain	I then processed the item (and Cyanoacrylate control) with Rhodamine. Using Rhodamine poured into a glass tray, I dipped the item and control into the Rhodamine and let them dry in the Fume Hood; control exhibited expected results. I then examined it using a 450 nm and 505 nm light sources and documented visible ridge detail.
	Powder Dusting	I again processed the item with black magnetic powder and collected a second tape lift placed upon a latent lift card.
LUZE8L	Visual Examination	flash light, oblique light
	Cyanoacrylate Fuming	
	Powder Dusting	black powder

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
LYCBXG	Visual Examination	Utilized ambient light and flashlight for visualization.
	Cyanoacrylate Fuming	Utilized CApture BT Fuming Chamber with hot plate temperature of 351 degrees F and relative humidity of 50%. Control test = positive.
	Powder Dusting	Utilized black magnetic powder.
	1,2-Indanedione	Utilized Heat Press for dry heating method and viewed with green laser and orange goggles. Control Test = positive.
M47KPU	Visual Examination	Direct lighting
	Powder Dusting	Magnetic Powder
M8GRYL	Visual Examination	Flashlight - partial print visible in Quadrant A
	Powder Dusting	Black powder - positive results in Quadrant A
MFHRNF	Visual Examination	Examined the item using Oblique lighting, UV lamp, ALS and LASER lighting.
	Cyanoacrylate Fuming	I fumed the item for approximately 8 minutes.
	Powder Dusting	I applied black powder to the item using a fingerprint brush.
	Dye Stain	I processed the item with a MEK Ardrex Dye Stain and allowed the item to dry, then examined the item under a UV lamp.
	Dye Stain	I processed the item with an Aqueous Rhodamine Dye Stain and allowed the item to dry, then examined the item under a LASER using orange goggles/filter.
	DFO	I dipped the item in DFO, allowed the item to dry, placed the item in the oven at 100 degrees for approximately 10 minutes. Removed the item from the oven and examined the item under a LASER using orange goggles/filter. I waited 24 hours, examined the item under a LASER using orange goggles/filter before processing with the next method.
	Ninhydrin	I dipped the item in Ninhydrin, allowed the item to dry, placed the item in a humidity chamber at 70 degrees and 70% humidity for approximately 10 minutes. Removed the item from the humidity chamber and examined. I waited 24 hours, examined the item again before processing with the next method.
	Zinc Chloride	I sprayed the item in a light mist of Zinc Chloride, allowed the item to dry, placed the item in a humidity chamber at 70 degrees and 70% humidity for approximately 10 minutes. Removed the item from the humidity chamber and examined the item under an ALS using orange goggles/filter. I waited 24 hours, examined the item under a ALS using orange goggles/filter before processing with the next method.
	Physical Developer (PD)	I placed the item in a Maleic Acid prewash for approximately 10 minutes and then placed the item in the PD solution for approximately 20 minutes. I then washed the item with tap water and allowed the item to dry.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
MG93CM	Forensic ligths	The evidence is checked using "Lumatec 400" forensic light with all spectrum. 21°C room temperature.
	Cyanoacrylate Fuming	Vaporization of cyanoacrylate in fuming chamber for about 5 minutes. 116°C temperatura, 81% humidity.
	Forensic ligths	The evidence is checked again using forensic light with all spectrum.
	1,2-Indanedione	All ITEM 2, is immersed in a INDANEDIONE solution. Natural drying. The oven is used to visualice the developed latent print. 100°C Temperature. 0% humidity (20 minutes)
	Forensic ligths	The ITEM 2, is checked again using forensic light with all spectrum.
	Ninhydrin	The ITEM 2, is immersed in a Ninhydrin solution. Natural drying. The oven is used to visualice the developed latent print. 80°C Temperature. 65% Humidity. (7 minutes)
	Forensic ligths	The porous part of Glossy postcard is checked again using "Lumatec 400" forensic light with all spectrum.
MH6DCW	Visual Examination	White light, 0 photos. RUVIS, 1 photo.
	Lumicyano	30 minutes at 75% humidity. Hot plate at 250 degrees Fahrenheit. White light, 0 photos. LASER, 0 photos. RUVIS, 1 photo.
	1,2-Indanedione	Dry heat press at 100 degrees for 2 minutes. LASER, 0 photos.
	Ninhydrin	Steam heat. White light, 0 photos.
ML8A4C	Visual Examination	used white light and ambient lighting
	Alternate Light Source	used Rofin PL550XL
	Cyanoacrylate Fuming	fumed for approximately 6 minutes
	Powder Dusting	used black magnetic powder
	Powder Dusting	used black powder to try to darken print
	Dye Stain	used MRM-10
	Physical Developer (PD)	only put in maleic acid when the thin stripes started to flake off; removed immediately
MRU3C6	Visual Examination	Item #2 was visually examined with oblique lighting, 2 minutes
	Alternate Light Source	Item #2 was visually examined with a Forensic Light Source, 2 minutes
	Cyanoacrylate Fuming	Item #2 was fumed in a chamber with CAE, then the item was examined with oblique lighting and a Forensic Light Source, control was conducted concurrent to fuming, 15 minutes
	Powder Dusting	Item #2 was processed with magnetic powder, 10 minutes
	DFO	Item #2 was processed with DFO in a fingerprint development chamber, control was conducted prior and concurrent to development, 20 minutes
	Ninhydrin	Item #2 was processed with Ninhydrin (Petroleum Ether) in a fingerprint development chamber, control was conducted prior and concurrent to development, 20 minutes
	Dye Stain	Item #2 was processed with Rhodamine 6G Dye Stain and then examined with a Forensic Light Source, control was conducted prior, 15 minutes

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
MUE8QU	Visual Examination	White light, oblique light
	Alternate Light Source	All wavelengths
	Cyanoacrylate Fuming	
	Dye Stain	MRM-10, 3 photos taken
	Dye Stain	Basic Yellow
	Powder Dusting	Magna Powder
MVPZDG	Physical Developer (PD)	Conventional black powder is used using a fiberglass brush on the surface of item 2. Subsequently, the surface is cleaned using a Marabú brush, revealing the finger fragment located in quadrant A.
MWV3EN	Cyanoacrylate Fuming	Fumed cyanoacrylate for 1 hour
	FSIS	UV illumination
	1,2-Indanedione	Stained with Indanedione, heat and humidity added
	Ninhydrin	Stained with Ninhydrin, heat and humidity added
	Dye Stain	Rhodamine 6G viewed with 532nm light and orange filter goggles
MXZTHH	Visual Examination	White light
	Alternate Light Source	368nm 505nm
	Laser	532nm
	Cyanoacrylate Fuming	Relative Humidity 75-80% Fume Time 15 minutes
	Powder Dusting	Non-Conventional Black Powder White light
	1,2-Indanedione-Zinc Chloride	Humidity Chamber Temperature Range 65-85°C, set point 70°C Relative Humidity Range 60-70%, set point 65% Evaluated at 532nm
MYQ2LR	Visual Examination	Visual exam of the item was completed. No visible prints were located at this time.
	Cyanoacrylate Fuming	The item was then chemically processed using Cyanoacrylate Fuming (MVC 1000). The fuming process takes approximately 20-30 minutes. The humidity of the chamber is set to 80% and the glue temperature is set to 120 degrees Celsius. Approximately 6 drops of superglue is used (Lot # 042621-04). A test print (positive/negative control) is used during the fuming process as well. Once the fuming was completed, ridge detail was visible in Quadrant A.
	Powder Dusting	The item was then processed using Bichromatic powder (Lot #111219-01). Partial ridge detail was present in Quadrant A.
MZZ9MY	Cyanoacrylate Fuming	1,5 grams of CNA, 8 minutes in fuming cabinet 120 degrees celsius RH 80%
	Powder Dusting	

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
N2VXG	Visual Examination	White light examination of exhibit as received using ambient laboratory lighting and 'Tiablo' High Power LED Flashlight at varying angles. Ridge detail was seen in section 'A'. This was exhibited as '[Initials]/2' and photographed. The mark was deposited over two stripes of different colours/reflection levels therefore '[Initials]/2' was further enhanced and exhibited as '[Initials]/2A0'. A alternative white light source (modulamp 'Schott' with daylight filter) was used on the reflective strip.
	Alternate Light Source	Sequential initial High Intensity Light Source (HILS) examination carried out, following dark adaptation, using Green Crime Lite 480nm-560nm with 571nm viewing filter followed by Blue Crime Lite 420nm-470nm with 476nm viewing filter and UV Crime Lite 350nm-380nm with 408nm viewing filter. QA adhered to and control test pieces passed. No further marks were developed and no further enhancements of '[Initials]/2'.
	Cyanoacrylate Fuming	Item 2 was treated with Cyanoacrylate Fuming. Foster & Freeman MVC5000 Cabinet, Relative Humidity 80%, Glue time 13 minutes & 3g of superglue used. Following treatment, examined using 'Tiablo' High Power LED Flashlight (white light) at varying angles. QA adhered to and control test piece passed. No further marks were developed and no further enhancements of '[Initials]/2'.
	Powder Dusting	Item 2 was treated with Powder Dusting. Black Magnetic Powder and Aluminium powder used with a Magnetic Applicator and Zephyr brush. Following treatment, examined using 'Tiablo' High Power LED Flashlight (white light) at varying angles. QA adhered to and control test piece passed. No further marks were developed and no further enhancements of '[Initials]/2'.
	1,2-Indanedione	Item was treated with 1,2-Indanedione and item was placed in the Thermo Fisher oven for 14 minutes and 30 seconds. Following dark adaptation, examined using the Green Crime Lite 82S 490-560nm with 571nm viewing filter. QA adhered to throughout and control test piece passed. No further marks were developed and no further enhancements of '[Initials]/2'.
	Ninhydrin	Item 2 was treated with Ninhydrin and allowed to dry. Treated in oven set at 62% RH & 80°C for 4 minutes (2 minutes recovery time included in time). Examined using 'Tiablo' High Power LED Flashlight (white light) at varying angles on same day. QA adhered to and control test piece passed. No further marks were developed and no further enhancements of '[Initials]/2'.
	Physical Developer (PD)	Item 2 was treated with Physical Developer. Ensured all solutions and room temperature >17°C. Pre-treated with Maleic Acid for 10 minutes, treated with Physical Developer Working Solution for 20 minutes followed by 3 x water rinses as per procedure. All treatment stages carried out on rockers so exhibit was constantly agitated throughout. When dry, item was examined using 'Tiablo' High Power LED Flashlight (white light) at varying angles. QA adhered to and control test piece passed. No further marks were developed and no further enhancements of '[Initials]/2'.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
NCCQ39	Visual Examination	I visually examined item 2 under fluorescent light with a magnifying lens.
	Cyanoacrylate Fuming	I placed item 2 into the CA chamber in the latent print room of the Crime Scene Unit. I hung the item up on a rod to allow all sides to be in contact with the CA fumes. I put fifteen (15) drops of cyanoacrylate into a small foil dish and placed a test print on a clip at the top of the chamber. I ran the fume cycle for 12 minutes, then allowed the chamber to purge for 10 minutes, and then I allowed the item to sit for an hour. I then visually examined the item under fluorescent light with a magnifying lens.
	Powder Dusting	I dusted item 2 with black magnetic powder. I then visually examined the item under fluorescent light with a magnifying lens.
	Ninhydrin	I placed item 2 into a Ninhydrin bath (batch number 306) and gently agitated the bath for one minute. I then hung the item to dry completely. I then placed the item into the Caron chamber at 60 degrees Celsius and 60% humidity for 20 minutes. I then removed the item from the chamber and visually examined the item under fluorescent light with a magnifying lens.
	Physical Developer (PD)	I submitted item 2 to the latent print unit for Physical Developer processing. Item 2 was processed by latent print technician on 6/22/22 under batch number 502. When I received the item back I visually examined the item under fluorescent light with a magnifying lens.
NEKY8M	Visual Examination	ambient light and flashlight
	Cyanoacrylate Fuming	lumicyano fuming 8 mins, visualized with ALS 455-515nm with orange filter
	Powder Dusting	black fingerprint powder
NEMNE6	Cyanoacrylate Fuming	
	Powder Dusting	
NG3BXC	Visual Examination	Examined in the white light and the daylight.
	Alternate Light Source	Examined in 350-380 nm (Crimelite 82S), and in 450 nm, 470 nm, 490 nm, 505 nm, 530 nm , 555 nm (Polilight PL500).
	Cyanoacrylate Fuming	Processed in the cyanoacrylate chamber "MVC 3000" for 20 min., t-120 C, RH-80 %. Dried item examined in the white light.
	Powder Dusting	Magnetic Black
NHJ7V	Visual Examination	
	Cyanoacrylate Fuming	A control test of reagents and solution were performed prior to process the sample. A positive result obtained for cyanoacrylate and Rhodamine. The item was process twenty minutes in Cyanoacrylate atmospheric fuming with cyanoacrylate compound, then dye stan with rhodamine solution, let dry for 20 minutes and use alternate light source.
	Dye Stain	[Description of method provided with Cyanoacrylate Fuming above]
	Alternate Light Source	Laser system S/N 8710G-Green Light 532.0nm

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
NQEFWN	Visual Examination	Processing time - 3 minutes. Ambient light.
	Alternate Light Source	Processing time - 4 minutes. All available wavelengths used to examine with Mini CrimeScope.
	Cyanoacrylate Fuming	Processing time - 20 minutes. SafeFume superglue chamber used.
	Powder Dusting	Processing time - 5 minutes. Black powder used.
	1,2-Indanedione	Processing time - 6 minutes. Dual 77 laser used at 520 nm for examination.
	Ninhydrin	Processing time - 5 minutes. Steam of warm iron used to speed up rate of reaction. Purple color noted in test print.
	Dye Stain	Processing time - 7 minutes. Rhodamine 6G used. Dual 77 laser used at 520 nm for examination.
NY8NHE	Visual Examination	Fragmentary ridge detail noted in Quadrant A, pattern type not discernible.
	Alternate Light Source	Mini-Crimescope - all wavelengths available. Additional fragmentary ridge detail noted in Quadrant A, pattern type not discernible.
	Cyanoacrylate Fuming	SafeFume Superglue Chamber - run time approximately 25 minutes. Additional fragmentary ridge detail noted in Quadrant A, pattern type not discernible.
	Powder Dusting	Bi-Chromatic powder. Additional ridge detail noted in Quadrant A - right loop pattern type, reference whorl. Smudging in core area noted.
	1,2-Indanedione	Viewed with Dual 77 laser at 520 nm. No additional ridge detail noted.
	Ninhydrin	Humidity chamber used for approximately 10 minutes. No additional ridge detail noted.
	Dye Stain	Rhodamine 6G (fluorescent dye). Viewed with Dual 77 laser at 520 nm. Additional ridge detail noted in Quadrant A - right loop pattern type, reference whorl. Smudging in core area noted.
P33NBG	Visual Examination	In daylight fingerprint has been disclosed - section A. In a whole spectrum of Polilight PL 500 no fingerprint fluorescence.
	Cyanoacrylate Fuming	Improved fingerprint quality has been achieved.
	Powder Dusting	Type of powder - Black Emerald. Improved fingerprint quality has been achieved.
P3H67A	Cyanoacrylate Fuming	Visually examined - applied black latent fingerprint powder and viewed under ambient light.
PE2FZU	Visual Examination	Oblique lighting
	Alternate Light Source	from 455-515 nm with orange goggles
	Cyanoacrylate Fuming	23 minutes fuming time.
	Powder Dusting	With black powder.
	Dye Stain	Rhodamine 6G in Methanol.
PEVAD6	Powder Dusting	Magnetic Powder

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
PG4DBM	Visual Examination	Two (2) minutes. Frag RD noted on section A.
	Alternate Light Source	Five (5) minutes, looking for Inherent Lumination with Mini-Crimescope all wavelengths. No additional RD noted.
	Cyanoacrylate Fuming	Fifteen (15) minutes, No additional RD noted.
	Powder Dusting	On 6/11/2022 magnetic powder used. Additional RD noted on section A.
	1,2-Indanedione	On 6/11/2022 thirty (30) minutes processing and also used Mini-Crimescope at 515 NM. No additional RD.
	Ninhydrin	On 6/11/2022 thirty (30) minutes processing. Also used a steam iron. No additional RD.
	Dye Stain	On 6/11/2022 thirty (30) minutes processing with Rhodamine 6G and also used Mini-Crimescope at 515 nm. No additional RD.
PGLBG8	Powder Dusting	Perform a visual inspection, to locate the footprint. An alternating light was used white, then black magnetic powder was used. Lift the footprint with a clear plastic patch. it was preserved in photo. The footprint is located in the letter A
PHY3BA	Visual Examination	White light from various lamps.
	Alternate Light Source	Various colours of light using polilight.
	Cyanoacrylate Fuming	Processing time approx 30 mins includes white light lightsearch.
	1,2-Indanedione	Processing time approx 20 mins includes laser lightsearch.
	Ninhydrin	Processing time approx 40 mins includes white lightsearch.
	Dye Stain	Rhodamine 6 G treatment visualised using laser. Gential Violet treatment visualised using white light and laser. BR 14 treatment visualised using laser. Approx 2 hours time in total
	Powder Dusting	Magnetic powder applied, visualised using polilight. Approx 20 mins
PK79WB	Visual Examination	No Impressions observed using direct and oblique lighting
	Cyanoacrylate Fuming	30 minute fuming cycle
	Visual Examination	Impression observed slightly with oblique lighting. To faint to show up in photos.
	Powder Dusting	Black powder. Impression observed in quadrant A
PLWKPP	Visual Examination	I observed ridge detail in section "A" during a visual examination.
	Powder Dusting	I processed the item using black Mag Powder and developed ridge detail in section "A".
PREY6F	Visual Examination	
	Cyanoacrylate Fuming	
	Alternate Light Source	Reflected UV
	Powder Dusting	Magnetic Powder
PVHMQX	Cyanoacrylate Fuming	10 min fuming
	Powder Dusting	Magna jet black

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
Q3ZH67	Alternate Light Source black powder	A visual inspection of piece # 2, using alternating white light with a magnifying glass was made where the fingerprint was located. Black powder was used to develop the printing.
Q4U4YX	Visual Examination Cyanoacrylate Fuming Powder Dusting	White light and fluorescence examination 350 nm - 650 nm. Processing in fuming cabinet for 10 min heat superglue to about 120 C and humidity 75%. Exam with withe, blue light. Brushed black powder and exam white light.
Q9KGXZ	Powder Dusting	Perform a visual inspection , to locate the footprint. An alternating light was used white, then black magnetic powder was used. Lift the footprint with a clear plastic patch. it was preserved in photo. The footprint is located in the letter A.
QADE77	Visual Examination LUMICYANO Alternate Light Source DFO Alternate Light Source Ninhydrin	White light/ ALS BG BG/G
QC3QV4	Visual Examination Cyanoacrylate Fuming Powder Dusting Ninhydrin Physical Developer (PD)	Visual examination under LED lighting and magnification CA fuming with CyanoSafe, visual examination under LED lighting and magnification Black magnetic powder dusting, visual examination under LED lighting and magnification Ninhydrin processing in Caron chamber, visual examination under LED lighting and magnification PD processed by another, visual examination under LED lighting and magnification
QEQCGZ	Graphite powder black	A visual inspection with alternative light was made of the piece of evidence was worked with graphite powder black.
QFNKMY	Visual Examination Cyanoacrylate Fuming Powder Dusting	White, blue, and green light source. Print was visible. Processing time 10 minutes. Print was visible after process. Print was visible after process.
QM9GVU	Visual Examination Forensic Light Source Cyanoacrylate Fuming Powder Dusting DFO Ninhydrin Dye Stain	15min with oblique light 15min w/ oblique light 15 min magnetic black powder 10 min w/ Forensic Light Source- 10min Petroleum Ether; 10 min Rhodamine w/ FLS 10 min

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
QQ8RQU	Visual Examination	Checked for any possible trace evidence and visible latent print evidence. Oblique lighting (Flashlight)-Processing Time 3 Minutes
	Inherent Florescence	Detection of latent prints prior to chemical processing.- Forensic Light Source Processing Time: 3 Minutes
	Cyanoacrylate Fuming	Cyanoacrylate in fuming chamber with item needed to be processed for latent prints. Processing Time: 5-10 Minutes
	Visual Examination	Checked for any visible latent print evidence. Processing time: 10 Minutes
	Powder Dusting	Magnetic Powder: Due to glossy paper. Processing Time: 3 Minutes
	Visual Examination	Checked for any visible latent print evidence. Processing time: 5 Minutes
	DFO	DFO- Processing Time: 10-20 Minutes
	Forensic Light Source	Laser used in conjunction with dye stain processing. Processing Time: 30 Minutes
	Visual Examination	Checked for any visible latent print evidence. Processing time: 10 Minutes
	Ninhydrin	Ninhydrin- Processing Time-5-20 Minutes
	Visual Examination	Checked for any visible latent print evidence. Processing time: 10 Minutes
	Dye Stain	Rhodamine 6G-Processing Time-15 Minutes
	Forensic Light Source	Laser used in conjunction with dye stain processing. Processing Time: 10 Minutes
Visual Examination	Checked for any visible latent print evidence. Processing time: 10 Minutes	
QX8CQ4	Cyanoacrylate Fuming	120 degree celsius 8 minutes 12 drops
R4RPA4	Visual Examination	Visual examination under white light and magnification.
	Cyanoacrylate Fuming	Cyanosafe set up with sixteen (16) drops of cyanoacrylate in the aluminum weigh boat. The weigh boat was placed on the heating element, distilled water was then placed in the water well. A test print was placed inside the chamber. The chamber was turned on and ran for 12 minutes and allowed to purge. The item was allowed to dry for 1 hour. Test print was positive.
	Powder Dusting	Black magnetic powder was applied with a magnetic wand.
	Ninhydrin	Item was soaked in a tray until all surfaces were completely wet. Item was then air dried. The item was placed in the CARON at 60F and 60% humidity for approximately 45 minutes, checking after 30 minutes. Ninhydrin batch 306.
	Physical Developer (PD)	Physical developer batch #502, processed by Latent Print Technician.
R6FAUD	Alternate Light Source	direct illumination
	Cyanoacrylate Fuming	lumicyano
R8AXCA	Visual Examination	Visual Exam was negative for ridge detail.
	Cyanoacrylate Fuming	CA fuming was positive for ridge detail.
	Powder Dusting	Black magnetic powder was used to enhance the ridge detail further.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
RAU26Z	Visual Examination	white light UV Tracer Laser
	Cyanoacrylate Fuming	70 minutes
	Powder Dusting	Black powder
	DFO	20 minutes
	Ninhydrin	3 minutes
RBQC6A	Visual Examination	Friction ridge detail observed in Quadrant A
	Cyanoacrylate Fuming	Foster and Freeman MVC 5000
	Dye Stain	Basic Yellow per protocols
RDFMXN	Visual Examination	Visual examination with a flashlight.
	Cyanoacrylate Fuming	Cyanoacrylate fuming for 15 minutes using an Air Science cyanoacrylate fuming chamber.
	Powder Dusting	Used a magnetic wand with a mixture of black powder and magnetic powder
RE9L7U	Visual Examination	Oblique white light
	Cyanoacrylate Fuming	Fuming temp 120 degrees C. Humidity RH 80%, Dev. time 8 min
	Powder Dusting	Magna jet black, magnetic wand
REPM2A	Cyanoacrylate Fuming	
	Powder Dusting	Black powder.
RGEYUN	Visual Examination	white light, UV - 555nm - Polilight PL 500, suitable goggles
	Cyanoacrylate Fuming	processing time - 15 minutes, humidity - 80%
	Visual Examination	white light
	Powder Dusting	antistatic Black
	Visual Examination	white light
RKCM9A	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	12 minutes
	Powder Dusting	Magnetic powder
	Ninhydrin	Placed in humidity chamber for 5 minutes
RKFZZC	Semi-porous processing	Visual examination, Inherent Lumination (Alternate light source), Cyanoacrylate (super glue- sat over night/next day), bi-chromatic powder, 1,2 Indanedione, ninhydrin Rhodamine 6G, ALS 515nm
RNUML4	Black magnetic powder	As first step I realized a visual inspection to find the latent print using a white alternate light, After I use black magnetic powder.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
RUK2BB	Visual Examination	The piece of evidence was examined visually to see if i could identify where the latent print was located. Thoroughly checking each side of the sheet of wrapping paper, focusing my view on each of the assigned spaces A,B,C,D. Always documenting the piece through photography.
	Alternate Light Source	Due to the latent print not being found so easily with just my visual prowess, I added an alternate light source to help the process. Using a flashlight with a white beam of light. Helping identify where the latent print was located in the middle parte of the A section of the wrapping paper. Always documenting the piece through photography.
	Powder Dusting	Once located through an alternate light source the latent print was exposed through the use of black magnetic graphite powder and a magnetic brush. Working through it with caution not to affect the integrity of the latent print and cleaning the excess of magnetic graphite to clean the area. To properly see the latent print and its characteristics. Always documenting the piece through photography.
T2DVG9	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Powder Dusting	Magnetic Powder
	1,2-Indanedione	
	Dye Stain	
	Physical Developer (PD)	
TA9QLX	Visual Examination	
	Alternate Light Source	Krimesite Scope
	Cyanoacrylate Fuming	80% Humidity at 20 mins
	Powder Dusting	Conventional black powder
TARBUC	Cyanoacrylate Fuming	
	Powder Dusting	black powder
TAUZ2U	Visual Examination	06/15/2022 @ 1420 hrs. No visible ridge detail
	Laser	06/15/2022 @ 1446 hrs. 532 nm laser. Test/control was positive. Some visible ridge detail, not of comparison value
	Cyanoacrylate Fuming	06/15/2022 @ 1516 hrs. Vacuum A used with reagent ID 202110107. Item in chamber 40 minutes Test/control was positive. Ridge detail present and photographed. Retained image after processing with Cyanoacrylate fuming due to better contrast. Assigned image Item 1-2
	Powder Dusting	06/16/2022 @ 1355 hrs. Magnetic powder used. Test/control was positive. No additional ridge detail present

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
TH6JXY	Visual Examination	
	Alternate Light Source	
	Iodine Fuming	
	Cyanoacrylate Fuming	
	Alternate Light Source	
	Dye Stain	Rhodamine 6G
	Alternate Light Source	
Powder Dusting	Magnetic Powder	
TRVZVF	Powder Dusting	Magnetic Powder, Lifting tape
TXZY76	Visual Examination	Ambient light and Crime Lite ML2 420nm-560nm (red, yellow, and orange filter).
	Cyanoacrylate Fuming	CA- 6000 at 65 percent relative humidity for 30 minutes.
	Visual Examination	Ambient light.
	Powder Dusting	Magnetic black powder with brush application.
	Visual Examination	Ambient light and ring lamp with magnification.
TZKVQP	Cyanoacrylate Fuming	
	Powder Dusting	Black Powder
	Dye Stain	Basic Yellow
U6V4RT	Visual Examination	
	Cyanoacrylate Fuming	Approx. 30 minutes.
	Visual Examination	
	Powder Dusting	Fluorescent powder.
	Alternate Light Source	
U9TUQD	Visual Examination	Observed ridge detail in section A during visual inspection.
	Cyanoacrylate Fuming	CA fumed for 90 minutes under a vacuum.
	Alternate Light Source	viewed using a FSIS where ridge detail was observed in section A.
UEGALC	Visual Examination	Print recovered
	Cyanoacrylate Fuming	Processing time: 1 hour, 80% relative humidity, print recovered
	Powder Dusting	Blitz Green, UV light, print recovered
UNPXK4	Powder Dusting	Magnetic black powder used to dust all sections of evidence.
UPX4RD	Cyanoacrylate Fuming	Lumi-Cyano, fuming time 25 minutes, temperature 120 degrees celsius. Magnetic jet black fingerprint powder was used on the red stripe to enhance the fingerprint.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
UR3TV8	Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting 1,2-Indanedione Dye Stain	Magnetic
UR4J7W	Visual Examination Powder Dusting	Eye inspection was used with alternating whit light, identifying in table A. A black magnetic powder was used for its development.
UR87J4	Visual Examination Alternate Light Source Powder Dusting	A visual inspection of piece of evidence # 2. Using an alternative white light and a magnifying glass was made where the fingerprint was located. Black powder was used to develop the printing.
UT2RCU	Visual Examination Powder Dusting Cyanoacrylate Fuming Vacum Metal Deposition	Disclosing part of a fingerprint. The light sources (UV and visible) at the labeled wavelength 350-650 nm and white. Improvement in fingerprint quality after use magnetic two tone powder. The fingerprint is visible the best at the white light. Not improvement in fingerprint quality after use Cyanokcrylate Fuming. The fingerprint is steel visible the best at the white light. Improvement in fingerprint quality after Gold/Zinc sequence. The fingerprint is visible in the light white source.
UT4GJD	Visual Examination Alternate Light Source Cyanoacrylate Fuming Visual Examination Powder Dusting	Used ambient/oblique lighting. Ridge detail observed and photographed using macro lens, F/8, 1/1000sec. Used UV and 505nm wavelengths with clear and orange filter. Cyanoacrylate chamber for approx. 10min at approx. 78% humidity. Used ambient/oblique lighting. Ridge detail observed and photographed using macro lens, F/8, 1/2000sec. Used black magnetic fingerprint powder.
UUBYFM	Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting	Item photographed prior to processing. Weak print observed in section A, it was photographed. Examination with white light (Polilight flare 2"ROFIN"). Weak print Visible, Fingerprint was photographed with white light and macro camera lens (Nikon D3300). The cabinet (Scenesafe) settings was : 85 % humidity and the hot plate was set on 120 degrees. Processing time 8-10 minutes. A faintly visualized latent print in section A after CA fuming. Fingerprint was photographed with white light and macro camera lens (Nikon D3300). Prints were deposited on a similar item, by human fingerprints (control Test), developed good quality prints. Powder Dusting (to improve the quality of latent print): Black magnetic powder, Enhanced ridges of latent print. Fingerprint was photographed with white light and macro camera lens (Nikon D3300).

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
UXDV6H	Cyanoacrylate Fuming	The piece of foil striped wrapping paper was processed with cyanoacrylate ester under vacuum for 1 hour, dye stained with Rhodamine 6G and viewed with a forensic laser.
UYMXVM	Cyanoacrylate Fuming	7 minutes, 120 degrees celcius, 80% RH.
	Powder Dusting	Carbon powder. magnetic powder
	1,2-Indanedione	10 minutes, 95-100 degrees celcius.
	Ninhydrin	2 minutes, 80 degrees celcius, 62% RH.
	Physical Developer (PD)	
VBCBFC	Cyanoacrylate Fuming	followed by black magnetic powder
VUBCHA	Visual Examination	
	Alternate Light Source	Examined with a 350-380 nm and 445-510 nm alternate light source
	Laser Examination	Examined with a 532 nm laser
	Cyanoacrylate Fuming	Humidity set point: 80%. Hot Plate set point: 120 degrees Celsius. Fuming time: 15 minutes. Purge time: 10 minutes
	Powder Dusting	Black magnetic powder
	1,2-Indanedione-Zinc Chloride	Evidence placed in a humidity chamber set to 70 degrees Celsius and 65% relative humidity for approximately 20 minutes. Examined with 532 nm laser
WV3AUM	Visual Examination	
	Cyanoacrylate Fuming	Superglue fuming.
	Powder Dusting	Dazzle Orange Magnetic Powder (DOMP).
	Alternate Light Source	Wavelength of 450nm.
VWVAL7	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Powder Dusting	
	1,2-Indanedione	
	Dye Stain	
W64ZA3	Visual Examination	Visual examinations were performed prior to latent print processing and then after each subsequent processing step.
	Cyanoacrylate Fuming	Item was fumed using a Foster+Freeman MVC 3000.
	Powder Dusting	Basic black latent fingerprint powder was applied with a fiberglass brush.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
W8C47Z	Visual Examination	The items was visually examined using a white LED light source under magnification.
	Alternate Light Source	The item was examined for the presence of inherent luminescence using Crime Lite ML (460nm-510nm: Orange Filter) under magnification.
	Cyanoacrylate Fuming	The item was processed by placing approximately 18 drops of cyanoacrylate into 1 metal dish. The metal dish was placed onto a heating plate. Distilled water was placed in a reservoir inside the chamber to maintain humidity. A test print was created and placed into the chamber. Items were placed into the chamber with consideration to space evidence far enough apart to allow CA vapors to circulate between items. The chamber was set to fume for approximately 12 minutes. The test print was checked for visible development of the latent print. Items were left undisturbed for 60 minutes to allow the CA coating to harden. The item was examined using LED lighting under magnification.
	Powder Dusting	The item was processed by picking up a small amount of powder(magnetic) on the end of the magnetic wand, forming a small ball of powder(magnetic) on the end of the wand. The powder(magnetic) was brushed gently over the surface of the item using circular strokes. Excess powder was picked up using an empty wand. The item was examined using LED lighting under magnification.
	Ninhydrin	The item was processed by immersing in a tray of Ninhydrin solution for approximately 5 seconds, the item was dried in a fume hood and placed inside a Caron chamber for accelerated development. The conditions of the Caron chamber were set for 60 degrees Celsius and 60% relative humidity. The item was checked for accelerated development at approximately 30 minutes. (No Prints were observed) The item was left in the Caron Chamber for an additional 30 minutes.
	Physical Developer (PD)	PD processing was completed by Latent Print Technician on June 22, 2022. The batch was completed under batch number 502.
	WAJRZW	Visual Examination
Alternate Light Source		5 minutes, observed under FLS, nothing observed
Cyanoacrylate Fuming		15 minutes, nothing observed
Powder Dusting		15 minutes, magnetic powder, latent observed, photographed, lifted
DFO		20 minutes, nothing observed under FLS
Ninhydrin		20 minutes, nothing observed
Dye Stain		15 minutes, RAM, nothing observed

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
WDG9EB	Visual Examination	
	Alternate Light Source	Examined evidence with UV light and Crime Scope at wavelengths from 475nm to 535nm.
	Cyanoacrylate Fuming	Placed in chamber for 20 minutes fume cycle and 5 minutes purge time.
	Powder Dusting	Black Magnetic Powder
	DFO	Applied DFO using a spray nozzle. Placed in heat chamber at 204 degrees Fahrenheit for approximately 15 minutes. Examined for development with Crime Scope at wavelengths of 475nm to 535nm
	Ninhydrin	Sprayed with Ninhydrin and allowed 5 minutes drying time. Used steam iron to accelerate development.
	Dye Stain	Used R.A.Y. Dye stain. Examined with Crime Scope at wavelengths from 435nm to 535nm.
	Powder Dusting	Black powder
WDX3FK	Cyanoacrylate Fuming	25 minutes of glue time in Mason Vactron fuming chamber.
	Powder Dusting	Black magnetic powder - Used brush method with wand and powder.
WKZE8C	Visual Examination	White light, blue light and yellow visualisation filter, green light and orange/red visualisation filter. Faint print visible in section A (using white light).
	Cyanoacrylate Fuming	Amount of glue used: 2 grams. Fuming time: 10 minutes. Print visible in section A (using white light).
	Powder Dusting	Magnetic powder. Print visible in section A (using white light).
	1,2-Indanedione	Temperature: 100C. Development time: 10 minutes. Print visible in section A (using green light and orange/red visualisation filter), but quality not improved from previous development methods.
	Ninhydrin	Temperature: 80C. Humidity: 62%RH. Development time: 2 minutes. Print visible in section A (using white light), but quality not improved from previous development methods.
WLQPWJ	Cyanoacrylate Fuming	Visual examination: In existing light and using light sources. With white light, in section A, on glossy stripe, we could see a midsection of a fingerprint. We were able to photograph it as a comparable print. Conclusion was, that edges of that print are partly on red and partly on white surface. Stated, that the material does not cause too much background fluorescence, which would prevent using Polycyano in developing the fingerprints. Polycyano fuming: Using LabRum Klimat and Polycyano work instructions. Test prints ok. Fingerprint on section A does not enhance significantly at the glossy surface, the print does not become visible enough on red and white surface (not enough contrast) Magnetic powder: Using BVDA Magnetic Jet Black. The powder stuck to the print reasonably well and a comparable picture was taken straight from the item.
WLTE32	Visual Examination	
	Alternate Light Source	Reflective UV.
	Powder Dusting	Magnetic powder.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
WLU3NL	Visual Examination	No latent evidence observed.
	Powder Dusting	Black magnetic powder used which displayed latent evidence. Pink fluorescent powder then used in an attempt to enhance. Latent evidence visible with laser.
WPUDJL	Visual Examination	
	Powder Dusting	Magnetic powder applied to surface. Print developed in quadrant A.
WQ4FAQ	Visual Examination	
	Cyanoacrylate Fuming	15 minute fuming / 15 minute purging in a CA-3000 fuming chamber
	Visual Examination	
	Dye Stain	MBD
	Alternate Light Source	450 nm
WU69H4	Visual Examination	Visual Examination, 15 minutes.
	Cyanoacrylate Fuming	Cyanoacrylate fuming, 30 minutes.
	Powder Dusting	Powder dusting with black magnetic fingerprint powder, 15 minutes.
WVG44V	Visual Examination	
	Cyanoacrylate Fuming	standard
	Powder Dusting	standard
WWEE2J	Visual Examination	White, blue, green
	Cyanoacrylate Fuming	10 minutes. 2,1 gram glue
	Powder Dusting	Magnetic Jet black powder
	1,2-Indanedione	10 minutes processing time
	Ninhydrin	2 minutes processing time
WWTXQN	Visual Examination	
	Alternate Light Source	
	Cyanoacrylate Fuming	
	Dye Stain	Rhodamine 6G
	Alternate Light Source	
	Powder Dusting	Black powder
XBUMN9	Visual Examination	Used a magnifier and a flashlight.
	Powder Dusting	Black magnetic powder

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
XTQCFW	Visual Examination	On 06/06/2022 I visually examined item 2 under a white light with magnification using an LED light source. No visual prints were observed.
	Cyanoacrylate Fuming	On 06/06/2022, I placed item 2 into the cyanosafe. I added distilled water to the cup heater element, added 18 drops of cyanoacrylate into an aluminum weigh boat and placed it onto the heating element. I then hung a test strip into the chamber. I set the time to 20 minutes and the chamber began to run. After it ran for 20 minutes, the purge cycle ran for an additional 10 minutes. I then let item 2 sit for 60 minutes to allow the cyanoacrylate deposits to harden. I then placed the item under a white light with magnification using an LED light. I observed possible ridge detail in section A. I then stopped processing to photograph the possible print observed.
	Powder Dusting	On 06/07/2022, I used magnetic powder under a circulation hood. I placed item 2 under a white light with magnification using an LED light source and observed possible ridge detail in section A. I then stopped processing to photograph the possible print observed.
	Ninhydrin	On 06/07/2022, I submerged item 2 in Ninhydrin (BATCH: 306) and allowed to air dry. I then placed the item into the CARON humidifying chamber. I placed item 2 under a white light with magnification using an LED light source. No prints were observed.
	Physical Developer (PD)	On 06/22/2022, PD (BATCH: 502) was completed by LPT. I placed item 2 under a white light with magnification using an LED light source and observed possible ridge detail in section A.
XU3Y4C	Cyanoacrylate Fuming	MVC5000
	Powder Dusting	
XVFLMC	Alternate Light Source	Oblique light
	Cyanoacrylate Fuming	Cyanoacrylate fumed in CYVAC vacuum chamber for 1 hour
	FSIS	FSIS using 254nm UV light and 254nm filter.
	1,2-Indanedione	Indanedione with ZnCl in petroleum ether solution, let sit for 24 hours then viewed with a green laser at 532nm
	Dye Stain	Rhodamine solution in petroleum ether & viewed with a green laser at 532nm
VMD	Vacuum Metal Deposition (VMD) with sterling silver and zinc metals. Processed until sufficient test print development was seen.	
XYEVXE	Visual Examination	Fragmentary RD (NI) noted on quadrant A
	Alternate Light Source	Utilized Mini-Crimescope through all wavelengths to visualize any inherent luminescence. RD noted in quadrant A. See below for preservation method.
	Cyanoacrylate Fuming	No additional RD noted
	Powder Dusting	Volcanic powder. No additional RD noted
	1,2-Indanedione	No additional RD noted.
	Ninhydrin	No additional RD noted
	Dye Stain	Rhodamine 6G. No additional RD noted

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
Y2DQW8	Visual Examination Powder Dusting	Black Magnetic Powder
Y8MZYA	Visual Examination Powder Dusting	Black magnetic powder
YBKLL7	Visual Examination Ninhydrin	BVDA NIN-Print spay, procesing time 50 h., room temperature.
YEN4CM	Visual Examination Cyanoacrylate Fuming Powder Dusting	magnetic, black and fluorescent powders used
YFHP8Y	Visual Examination Cyanoacrylate Fuming Powder Dusting Ninhydrin Physical Developer (PD)	<p>On 06/09/2022 I performed a visual examination under white light and magnification (LED). Ridge detail was observed in section A, so I stopped to preserve the latent print through photography.</p> <p>On 06/15/2022 I placed item 2 into the CyanoSafe recirculation chamber in the Crime Scene Unit's latent print room. I filled the humidity element with distilled water to the proper amount. Then I placed 15 drops of cyanoacrylate into a aluminum weigh boat and placed the weigh boat onto the flat heating element. I also hung a test print strip from the clip in the front upper right of the chamber. The chamber ran for 12 minutes and after the 12 minutes it purged for 10 minutes. After the purging, I opened the door and the evidence sat undisturbed for 60 minutes to allow the cyanoacrylate to harden. The test print strip was observed as positive showing the CyanoSafe functioned properly. I retrieved item 2 from the chamber and examined it under white light and magnification (LED). Ridge detail was observed in section C, so I stopped to preserve the latent print through photography.</p> <p>On 06/17/2022 I powdered item 2 with black magnetic powder. I then examined item 2 under white light and magnification (LED). Ridge detail was observed in section A, so I stopped to preserve the latent print through photography.</p> <p>On 06/20/2022 I submerged item 2 into Ninhydrin (Batch#: 306) and then let it air dry in a fume hood. Once completely dry I placed item 2 into the CARON chamber once it reached 60°C and 60% relative humidity. I let item 2 process in the CARON chamber for 30 minutes, I then checked on item 2 and saw that there wasn't much development so I left item 2 in the CARON chamber for another 30 minutes. After being in the chamber for 60 minutes, I retrieved item 2 from the CARON chamber and examined it under white light and magnification (LED). Ridge detail was observed in section A, so I stopped to preserve the latent print through scanning.</p> <p>On 06/22/2022, item 2 was processed with Physical Developer (Batch#: 502) by Latent Print Technician. Once returned, I examined item 2 under white light and magnification (LED).</p>

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
YGBMDK	Visual Examination	Item visually examined and photographed
	Cyanoacrylate Fuming	20 minutes @ 40% humidity
	Powder Dusting	Black magnetic powder
	Dye Stain	MBD dye stain
	Visual Examination	Item viewed under ALS
YH6M44	Visual Examination	White light different angles. Parts of print visible. Photographed with white light.
	Lumicyano Fuming	Foster & Freeman MVC3000. Temperature 120°C, Humidity: 80%, processing time 25 min.
	Alternate Light Source	Crime Lite 42S (Blue 420-470 nm, Green 480-560 nm) and orange and red filters.
	Powder Dusting	Magnetic Jet Black.
YJFHU3	Visual Examination	Includes use of ALS/FLS
	Cyanoacrylate Fuming	Ran for 12 minutes and allowed to harden overnight
	Powder Dusting	Magnetic powder
	Ninhydrin	Used in the humidity chamber after application.
YJG86Q	Visual Examination	Reflective Lighting (impression documented)
	Cyanoacrylate Fuming	15min (same detail as above)
	Powder Dusting	BiChrom Mag PDR (impression documented)
YQXL4Q	Visual Examination	Examined item using ambient lighting and Crime-Lite2 (white).
	Cyanoacrylate Fuming	Used a vacuum chamber set to 25 PSI and fumed for twenty minutes, let cure for 15 minutes.
	Visual Examination	Examined item using ambient lighting and Crime-Lite2 (white).
	Powder Dusting	Used traditional/standard black powder.
	Visual Examination	Examined item using ambient lighting and a flashlight.
	Dye Stain	Used R.A.M. Dye Stain: used dye stain to spray item and then allowed to air dry.
	Alternate Light Source	Examined item with a Rofin Polilight PL500 at 505nm with orange goggles.
	Wet Powder Suspension	Used White Wetwop: brushed a diluted amount of Wetwop onto item and allowed to sit for approximately 15 seconds before rinsing off with tap water.
	Visual Examination	Examined item using ambient lighting and Crime-Lite2 (white).
YT8NX2	Powder Dusting	

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
YUZL79	Visual Examination	White light
	Alternate Light Source	UV: 368nm; Blue-green: 445-510nm
	Laser	[wavelength]: 532nm
	Cyanoacrylate Fuming	80% RH, 15 min
	Powder Dusting	Non-fluorescent Black Powder, White Oblique light
	1,2-Indanedione	70% RH, 65°C, Time >= 25 min. [wavelength]: 532nm, 445-510nm
YVCEZB	Cyanoacrylate Fuming	Processing time = approximately 20 mins. CFC chamber at 70% humidity - 10 minute cycle followed by a 10 minute purge cycle. CFC positive control tested +, Lot#XT28419 Exp 02/23
YWPXYL	Visual Examination	No latent print impressions observed
	Cyanoacrylate Fuming	CAE fuming in chamber for approximately 15 minutes. Latent print impression observed and photographed.
	Powder Dusting	Black magna-powder utilized. Enhancement of latent print impression observed, photographed and lifted.
Z7D2R8	Visual Examination	I looked at the evidence using ambient light and a flashlight.
	Powder Dusting	Magnetic powder was used along with silver/black powder for a re-lift. The re-lift was not successful and was not retained.
ZELVMZ	Cyanoacrylate Fuming	processed in chamber for 31 minutes.
ZEZ93W	Alternate Light Source	Use a oblique alternate white light source to help me find the finger print.
	Powder Dusting	Use the black magnetic powder to enhance the contrast of finger print.
ZFDTU7	Visual Examination	~10 mins
	Alternate Light Source	~10 mins (350-380nm and 445-510nm)
	Laser	~5 mins (532nm)
	Cyanoacrylate Fuming	~35 mins
	Powder Dusting	~10 mins; Black powder
	IND-ZnCl	~ 35 mins (532nm)
ZG36MK	Visual Examination	
	Cyanoacrylate Fuming	
	Powder Dusting	black magnetic powder
	Powder Dusting	black powder
ZH36P7	Visual Examination	different light sources and filters
	Cyanoacrylate Fuming	temp. 25 C, humidity 80%, time 20 min, natural and white light (Chamber Safefume CA30S)
	Powder Dusting	black magnetic powder, magnetic applicator, natural and white light

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
ZHXR4	Visual Examination	Visual inspection - no trace
	Cyanoacrylate Fuming	Foster & Freeman MVC3000: Cyanoacrylate (glue vapor – a trace from square A seen with different light sources (best Foster & Freeman crime-Lite 42S green (480 – 560 nm), stands out best in a shiny stripe.
	Powder Dusting	carbon powder, followed by exposure (green light still best), the entire trace is visible
	Basic Yellow 40	BY40, after which with light sources (Foster & Freeman crime-Lite 42S green (480 – 560 nm) light source still the best) the whole trace is excellently visible.
ZNQPV8	Visual Examination	Visual examination with ambient/oblique lighting.
	Alternate Light Source	Visual examination with Forensic light source with various wavelengths & barrier filters.
	Cyanoacrylate Fuming	CA fumed in Misonix Chamber at 78% humidity for approx. 9 mins.
	Visual Examination	Visual examination with ambient/oblique lighting & latent photographed.
	Powder Dusting	Black powder dusting & latent photographed.
ZQBPYU	Visual Examination	
	FSIS	Full Spectrum Imaging System
	Cyanoacrylate Fuming	control print positive, Cyanosafe for 20 min. run time
	Powder Dusting	bichromatic magnetic powder
	Ninhydrin	batch # 306, with Caron chamber
	Physical Developer (PD)	batch # 502
ZR4M8Z	Visual Examination	Examined using natural light, flash light, UV, ALS, LASER, and SUV.
	Cyanoacrylate Fuming	Development was approximately 10 minutes. Examined using natural light, flash light, UV, ALS, LASER, and SUV.
	Dye Stain	Ardrox (MEK) with UV excitation.
	Dye Stain	Rhodamine 6G (aqueous) with LASER excitation.
	Powder Dusting	Black fingerprint powder.
	DFO	with LASER excitation.
	Ninhydrin	
	Zinc Chloride	with ALS excitation.

TABLE 2 - Item 2

WebCode	Development Methods	Method Details
ZWG9BZ	Visual Examination	white light
	Alternate Light Source	Foster&Freeman Lite ML2 (350-380nm, 395-425nm, 445-510nm, 480-560nm with required filters)
	Cyanoacrylate Fuming	Foster&Freeman MVC3000 - about 3 minutes fuming (120 Celsius degree, 80% RH)
	Vacuum Metal Deposition	West Technology VMD360 - Au/Zn
	DFO	CAST recepture - heating 20 minutes in 100 Celsius degree
	Ninhydrin	CAST recepture - heating 40 minutes in 80 Celsius degree, 62% RH
	Physical Developer (PD)	Sirchie

Item 2 - Development Response Summary	Participants: 303
Methods Utilized	

Alternate Light Source	110	Physical Developer	37
Cyanoacrylate Fuming	235	Powder Dusting	243
DFO	32	Visual Examination	236
Dye Stain	64	Wet Powder Suspension	3
Ninhydrin	81	1,2-Indanedione	36

****Note:** Methods listed are the preloaded options for selection via the CTS Portal and do not reflect all answers provided by participants.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
229XB6	Visual Examination Alternate Light Source 1,2 Indanedione-Zinc Chloride	365nm, 495nm and 532nm 20 minutes at 70 degrees Celsius and 65% humidity
233UBY	Visual Examination Ninhydrin	Magnifier and light Stored in a zip lock plastic bag after ninhydrin and performed another visual examination the following day
237988	1,2-Indanedione	5-MTN
24VJZL	Powder Dusting	magnetic powder followed by Ninhydrin
29PMKD	Ninhydrin	
29QCRV	1,2-Indanedione	After indanedione examined with green light 480-560 and OG590 filter.
2HZMDT	Visual Examination Ninhydrin 1,2-Indanedione	No area of ridge detail visible No area of ridge detail visible, heat and steam after 24 Hrs. Still no ridge detail visible. No area of ridge detail visible, heat and steam. Still no ridge detail visible.
2KG724	iodine crystals	Using a pipette with the iodine crystals, insert the straw and break the capsule to activate the iodine. The iodine vapors are applied by blowing into the nozzle on the surface of item 3, revealing the lofoscopic fragment in quadrant B.
2KZ4HA	DFO	Treat with DFO, dry in oven at 100 °C for 20 minutes. View with blue laser.
2QPLX7	Visual Examination Alternate Light Source DFO Ninhydrin	UV & CrimeScope placed in heat chamber for 20 minutes
2RJBXU	Cyanoacrylate Fuming Ninhydrin	using cyanoacrylate fuming in a fish-tank with a heater plate, then waiting few minutes until revealing the fingerprint. to make the fingerprint more visible i used ninhydrin with the standard procedure.
2TU9BB	1,2-Indanedione	with humidity viewed at 520 nm
3242WQ	Visual Examination 1,2-Indanedione Alternate Light Source	I visually looked at the sample with negative results. I then treated the paper with 1,2 Indanedione and let it air dry for 5 minutes. I then put the paper into a fingerprint chamber at 100 degrees for 10 minutes. I then took it out and sprayed the paper with Zinc Chloride and let it dry for a few minutes. I then used an ALS at 505 and used orange glasses to look for prints. I found a print in area "B".

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
34QML8	Visual Examination Alternate Light Source 1,2-Indanedione Physical Developer (PD)	
3AEBHY	Visual Examination Alternate Light Source 1,2-Indanedione Physical Developer (PD)	
3AKBRE	Ninhydrin Powder Dusting	Dip method, FDC 20 minutes, 80°C, 65% humidity Black magnetic powder, brush method
3BD9YL	1,2-Indanedione Ninhydrin	The item was put in a dry oven after being treated with this product. The item was put in a dry oven after being treated with this product.
3ER789	DFO	Treated w/ 1-8-Diazafluoren-9-one (DFO), developed in Caron Chamber @ 100oC ~20min.
3KYFU6	Visual Examination 1,2-Indanedione LASER	1,2 Indanedione- 15 minutes; 100 degrees C LASER
3LU43R	Visual Examination Ninhydrin Physical Developer (PD)	06/15/2022: Visually observed under a LED light 06/16/2022: Ninhydrin batch #306 used and placed into Caron chamber and observed under a LED 06/22/2022: PD batch #502 used and observed under a LED
3MM3BY	Visual Examination DFO Ninhydrin Physical Developer (PD)	After ninyhdrin, Zinc Chloride was also applied
3N2BJY	Visual Examination Ninhydrin Visual Examination	Visual examination using magnifier and oblique lighting. No ridge detail was observed. Processed with ninhydrin in fingerprint chamber for 10 minutes at 70 degrees Celsius and 65% humidity. Visual examination using magnifier. Ridge detail was observed.
3PCD4C	Visual Examination 1,2-Indanedione Ninhydrin	10 min process time. Print was visible after process. 2 min process time. Only fragments of print was visible after the process.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
3RZMFY	Visual Examination Ninhydrin	Visual exam performed under white light and alternative light sources. Ninhydrin was applied to the item, which was then placed in a humidity chamber for 3 minutes at manufacturer's recommended settings (80 degrees Celsius / 65RH%).
3XAVQ2	Visual Examination Alternate Light Source 1,2-Indanedione Ninhydrin	No RD noted. Mini-Crimescope viewed under all available wavelengths- No RD noted. Sprayed, allowed to dry, aided with added humidity with humidity chamber, viewed with Mini-Crimescope 515nm- RD noted in Quadrant B whorl pattern visible. Sprayed, allowed to dry, aided with added humidity with humidity chamber-No additional RD noted.
3YETTG	Visual Examination Alternate Light Source DFO Alternate Light Source Ninhydrin	created control with similar substrate, nothing observed nothing observed nothing observed nothing observed observed in Quadrant B, but very faint
3ZDTXN	Visual Examination DFO Ninhydrin	white light and LASER 20 Minute dry oven time 3 minute humid oven time
47XDFU	Visual Examination Ninhydrin Physical Developer (PD)	Visual examination under white light and magnification was completed on June 28,2022. No print observed. Ninhydrin (Batch# 307) and processing in the CARON Chamber on July 14, 2022. Item was examined under white light and magnification. Print observed in quadrant B. Processing was completed on July 20, 2022 by Latent Print Technician, Batch# 503. Item was examined under white light and magnification on 7/22/22. No print observed.
4CHH33	Ninhydrin [No Methods Reported.] Visual Examination	Drying in Oven
4EQL2K	Visual Examination Ninhydrin Alternate Light Source	Visual examination with white light. No visible latent/patent prints observed. Applied Ninhydrin, air dried in fume hood, and placed item in humidified oven for ~30 min. Secured item in evidence locker for ~24 hours for further development. Ridge detail of possible value observed in quadrant B. The developed print was faint, making the ridge detail difficult to see. A UV (400 nm) ALS with clear and orange goggles were used in an attempt to further enhance the print, but was not successful.
4NTTUY	Powder Dusting	I did a visual inspection of the finger print in the item, then I used an alternate light in oblique direction, later I used black powder to develop the finger print but no finger print appeared on the item.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
68PPVU	Ninhydrin	Ninhydrin was tested against a PLAP (Artificial Perspiration) standard and reacted accordingly. Ninhydrin was used to process Item 3 for latent prints. No latent prints developed.
69YJQT	Visual Examination	A visual examination was performed on the blue paper. I observed no ridge structure.
	1,2-Indanedione	The blue paper was sprayed with 1,2-Indanedione and allowed to dry. After drying, the blue paper was placed between two sheets of clean paper and placed in a heat press for 10 seconds.
	Alternate Light Source	A Polilight was used to visualize the evidence after the dye stain application. Orange goggles were worn and the evidence was viewed at 505 nanometers. One latent fingerprint of comparison value was observed.
	Ninhydrin	The evidence was sprayed with Ninhydrin and allowed to dry. After drying, the evidence was placed in a humidity chamber at 70 percent humidity for approximately 3-4 minutes. No ridge structure was observed.
	Ninhydrin	48 hours after the initial Ninhydrin application, the evidence was visually examined for any additional development. No additional ridge structure was observed.
6AAKB8	Visual Examination	
	Alternate Light Source	Rofin Polilight PL500
	DFO	heating 10 min, 100C.
	Ninhydrin	
6FGUX3	DFO	Treated with DFO, heated for approximately 20 minutes at 100 degree C.
6GA3PJ	Visual Examination	
	Ninhydrin	Ninhydrin treatment followed by heat and humidity chamber for approx. 30 minutes.
	Visual Examination	
6NL9DA	Ninhydrin	48 hour development at room temperature
6PMYNX	Ninhydrin	A visual inspection with alternative light was made of the piece of evidence. The piece of evidence was worked with Ninhydrin.
6QWYQK	Visual Examination	
	Alternate Light Source	
	DFO	
	Ninhydrin	

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
6ZMHAY	Visual Examination	The item was visually examined with fluorescent light for about 1 to 2 minutes. No areas were observed.
	Alternate Light Source	The item was examined with alternate light sources (ALS) for about 2 minutes, 445nm - 510nm and 368nm - 380nm. This took about 5 to 10 minutes. No areas were observed.
	Lasser	The item was examined using a laser at 532nm. This took about 2 minutes. No areas were observed.
	1,2 Indanedione Zinc Chloride	A porous reagent was applied to the item, 1,2 Indanedione Zinc Chloride. Before application a quality check test strip with a natural test print was performed. It was positive. The item was placed into the humidity chamber at 70 degrees Celsius and 65% relative humidity for about 20 minutes. The item was evaluated. An area/impression was observed and considered potentially of value. It was designated DT2, bracketed and photographed. This took about 2 minutes.
783GLP	Visual Examination	Visual examination under white light and magnification on 7/19/2022 (Fluorescent). Number of items confirmed. no prints
	Ninhydrin	Ninhydrin (307) and processing in the CARON on 7/20/2022. Number of items confirmed. no prints
	Physical Developer (PD)	Physical Developer (503) on 7/20/2022. Number of items confirmed. no prints
7BFCU8	Visual Examination	Visual examination (visible reflection). Date analyzed : 15/06/22. Room temperature = 23°C. Relative humidity = 56 %
	1,2-Indanedione	Indanedione + zinc chloride (immersion of the whole item in the solution). Date analyzed : 15/06/22. Dry heat press at 165°C for 10 seconds
	Visual Examination	Visual examination (fluorescence). Date analyzed : 15/06/22. Room temperature = 23°C. Relative humidity = 56 %
	Ninhydrin	Ninhydrin (immersion of the whole item in the solution). Date analyzed : 15/06/22. 48 hours development in ventilated closet, with a relative humidity of 67 % Temperature = 23° C
	Visual Examination	Visual examination (visible reflection). Date analyzed : 17/06/22. Room temperature = 22°C. Relative humidity = 60 %
7DQ6Y8	DFO	20 minutes in an oven at 100 degrees C
	Ninhydrin	Humidified with steam iron
7QCPBN	Visual Examination	(-) Results
	Ninhydrin	(-) Results (Fingerprint Chamber setting 80 degrees C, 65% RH, 3 minutes)
	1,2-Indanedione	(-) Results (Fingerprint Chamber setting 100 degrees C, 0% RH, 10 minutes)
	1,2-Indanedione	(-) Results (Fingerprint Chamber setting 100 degrees C, 0% RH, 10 minutes) *Second attempt*
7QGUYD	Alternate Light Source	Viewed at 455-515nm with ALS for fluorescing prints with negative results.
	Ninhydrin	Sprayed with Ninhydrin working solution.
7R6DW6	Ninhydrin	Developed in Environmental Chamber @80oC and 70% RH for 15 minutes

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WebCode	Development Methods	Method Details
7TFH89	Ninhydrin	Ninhydrin, Lot #111721-01 Caron Forensics Humidity chamber used for processing 80 degrees Celsius and Relative Humidity 65%
7XFJFH	Visual Examination	viewed under white light
	Alternate Light Source	viewed with ALS at both 350nm and 515nm
	Ninhydrin	submerged in Ninhydrin, exposed to heat and humidity in chamber for 6-7hrs per day for three days, left in chamber with chamber turned off over night, test prints developed strongly within 15-20 minutes.
7Y7RFK	Visual Examination	
	DFO	temp. - 100C, time - 10 min
	Ninhydrin	temp. - 80C, RH - 62%, time - 10 min
88A9JW	Visual Examination	White light, different angles, print not visible.
	Powder Dusting	Black carbon powder, print not visible.
	1,2-Indanedione	NinCHA M31, humidity 65%, temperature 65°c degrees, time 30 minutes.
	Alternate Light Source	Crime Lite 42S, OG590 (480-560mm) with Glasses OG590AG. Excellent print.
88FCK3	Ninhydrin	I used Limited Ink Ninhydrin processing technique for this item of evidence.
	Visual Examination	White light and magnification
	Ninhydrin	Caron 30 minutes. Batch 307
8AHJFZ	Physical Developer (PD)	Maleic Acid 10 minutes PD 10 minutes Batch 503
	DFO	Chamber 100 degrees Celsius - with specific light source and filter
8U9TH2	Ninhydrin	75% humidity, 65 degrees Celsius
	Visual Examination	Initial visual examination with white light and light source, blue and green light. During the visual examination no visible fingerprint.
928CHB	1,2-Indanedione	1,2- Indanedione, 100 degrees, 10 minutes. Teststrip positive. 1,2- Indanedione, 100 degrees, 10 minutes. A perfect fingerprint was visible in section B. The development was in that moment stopped. The item was kept in dark place after the development with 1,2- Indanedione before it was photographed. Note! If I had not seen any fingerprints after 1,2- Indanedione I would have continued with Ninhydrin.
	Visual Examination	
96MZ39	Ninhydrin	The control test and test items were sprayed with ninhydrin solution from 8-inch away, then left to air dry for 24 hours at room temperature and controlled humidity conditions.
	Ninhydrin	Ninhydrin with heat and moisture produce a faint purplish color
9EPAEY	Visual Examination	
	DFO	Temperature 90°C, Humidification 10%, time 10 minutes
	Ninhydrin	Temperature 60°C, Humidification 65%, time 30 minutes

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WebCode	Development Methods	Method Details
9EUL3V	Ninhydrin	I sprayed the surface area with Ninhydrin and then I put it on the sun for a few minutes and wait to dry.
9J8DHN	Visual Examination	Visual examination with magnification and white light was used on 06/13/2022.
	Ninhydrin	Item was submerged in ninhydrin on 06/16/2022 for approximately 1 minute then taken to dry in fume hood. Item was placed caron chamber for approximately 20 minutes.
	Physical Developer (PD)	Item was submerged in physical developer on 06/22/2022 to possibly enhance the quality of the print.
9KUBFT	Visual Examination	
	Alternate Light Source	Las-Blu-UV
	1,2-Indanedione	532nm
	Physical Developer (PD)	
9KXN8W	Visual Examination	
	DFO	20 minutes, 100 C
	Ninhydrin	30 minutes, 80 C, RH 65%
9KZBNA	Visual Examination	White light, laser light 532 nm
	Ninhydrin	Ninhydrin, Humidity Chamber - 60 C 60RH
9LTAWG	Visual Examination	No print visible.
	1,2-Indanedione	Processing time 10 minutes. Print visible.
	Ninhydrin	Processing time 2 minutes. Print partially visible.
9M7Y4Z	DFO	Visual examination (000-590nm); photography; 100 °c
9TX2DQ	Ninhydrin	Chemical Sprayed On Evidence Until Damp, Placed In A Fume Hood To Air Dry, Steam Iron Used For Humidity, Held Approximately 3 Inches From Evidence.
9U29EW	Visual Examination	visual examination negative
	1,2-Indanedione	Indanedione applied followed by 10 mins in an environmental chamber at 80 degrees and 80% humidity developing detail in section B
9VHXT6	Visual Examination	
	Alternate Light Source	
	DFO	(200°F ± 5°, Ambient Relative Humidity)
	Ninhydrin	Ninhydrin Incubator (40°C ± 5°, 65% Relative Humidity ± 5%)
9VKM39	Ninhydrin	Used dip method, dried evidence, humidity chamber for 20 minutes, 80 degrees C/65% humidity
	Powder Dusting	Black magnetic powder, brush method for a few seconds

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WebCode	Development Methods	Method Details
9WTTJ3	Visual Examination	various lighting techniques, flashlight and ambient
	Ninhydrin	in a humidity chamber set for 65% humidity and 80 degrees celsius. Developed RD in box B.
	Physical Developer (PD)	no further development of RD.
ABQ7BJ	Visual Examination	The item was visually inspected for any latent prints.
	Oblique lighting	A flashlight was used to search for any latent prints.
	Alternate Light Source	The item was placed under a forensic light source to search for any latent prints.
	Iodine Fuming	The fuming wand was waved throughout the item.
	DFO	DFO was sprayed onto the item and allowed to dry. The item was then placed into the fingerprint chamber for about 10 minutes.
	Alternate Light Source	Forensic light source used to see if any prints developed.
	Ninhydrin	Ninhydrin was sprayed onto the item and allowed to dry. The item was then placed into the fingerprint chamber for about 5-10 minutes.
ABRWL9	Visual Examination	Side lighting
	Ninhydrin	Steam iron, Side lighting, Side lighting with green filter. +9 days, Side lighting, Side lighting with green filter
	Silver Nitrate	UV light for development, Side lighting, Side lighting with green filter
AQLLJQ	Ninhydrin	Processed with Ninydrin. Heat source added to item.
ARXHNV	Visual Examination	
	Alternate Light Source	Mini-Crimescope, all wavelengths
	1,2-Indanedione	Viewed with mini-crimescope at 515
	Ninhydrin	Allowed to sit overnight before viewing
AT8GQQ	Visual Examination	
	Alternate Light Source	
	Ninhydrin	
ATR9UA	Visual Examination	Oblique lighting to examine for latent prints and indented writing.
	Alternate Light Source	Crimescope wavelengths 455, 475, CSS, 495, 515
	Ninhydrin	Stock solution made 6/22/2022 [initials]; Working solution made 6/22/2022 [initials]
AVC3M4	Visual Examination	Polilight PL400
	DFO	DFO, Ar Science Safedvelop SD34S, time 20 minutes, temperature 100 centigrade degrees, light 450-530 nm, orange viewing filter
	Ninhydrin	Ninhydrin, Ar Science Safedvelop SD34S, time 3 minutes, temperature 80 centigrade degrees, humidity 65%
AVETV8	Ninhydrin	Methanol, dip method, fingerprint development chamber at 80°C/65% humidity, 20 minutes

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WebCode	Development Methods	Method Details
AZAHGK	Visual Examination	Visual examination conducted under fluorescent light and magnifying lens. Gloves were worn.
	Powder Dusting	Item was processed in a powder chamber using black magnetic powder. Item was then examined under fluorescent light and magnifying lens. Gloves were worn at all times.
	Ninhydrin	Item was submerged in Ninhydrin (batch 307) for 5 seconds before being dried in a fume hood. Once dry, item was placed in a "Caron" chamber at 60% humidity and 60 degrees for one hour. After the hour had passed, the item was removed and examined under fluorescent light and magnifying lens. Gloves were worn at all times.
	Physical Developer (PD)	Item was packaged, sealed, and transferred to the latent print unit within the lab for Physical Developer processing. Item was processed by the latent print unit, packaged, sealed, and returned to my custody for examination. Item was examined under florescent light and magnifying lens, being careful to expose the item to light for as little time as possible to prevent overdevelopment. Gloves were worn at all times.
B79B4K	iodine crystals	A visual inspection was performed, alternating light was used, and photographs were taken to document the findings. I use first iodine crystals to development and after that
	Ninhydrin	I use in second method the Ninhydrin spray to develop and take photos.
BT46XT	Visual Examination	Visually examined item for any possible ridge detail using ambient light.
	Alternate Light Source	ALS used to examine item for any possible ridge detail.
	Iodine Fuming	Iodine crystals were used to process the item and a test print.
	Visual Examination	Visually examined item and test print post-iodine fuming for ridge detail.
	Ninhydrin	Dipped test print into Ninhydrin and placed in humidity chamber for 5 minutes under 75 degrees C and 80% humidity. Dipped item and new test print into Ninhydrin and placed in humidity chamber under same conditions.
	Visual Examination	Visually examined item and test print post-ninhydrin for ridge detail.
BUYWU	1,2-Indanedione	
	Ninhydrin	
BVTJDQ	Visual Examination	
	DFO	
	Ninhydrin	
BWKTCX	Ninhydrin	A control was created prior to examination of the item, and yielded positive results. Paper was laid down on a table and Ninhydrin was sprayed on the item in a fume hood until saturation occurred. The item was allowed to air dry and then was held above a steamer for approximately 5 minutes. The item was transferred to a secure locker to allow the item to set for at least 24 hours. Proper PPE was used at all times: gloves, mask, lab coat.

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WebCode	Development Methods	Method Details
BX4ATL	Visual Examination	Incandescent/flood lighting
	Ninhydrin	Batch #307. Rinsed in solution for approximately 15 seconds, allowed to air dry. CARON chamber for approximately 30 minutes.
	Physical Developer (PD)	Processed by LPT. Batch #503.
C6EX6Y	Visual Examination	Oblique lighting. NRD.
	Alternate Light Source	Blue light (420-470 nm). NRD.
	DFO	Lot #202202039, Expiration: 3/31/2023. Control: Positive. Observed under ALS blue light (420-470 nm). NRD.
	Ninhydrin	Lot # Unknown. Expiration: 08/10/2022. Control: Positive. NRD.
	Ninhydrin	Lot # Unknown. Expiration: 08/10/2022. Control: Positive. NRD.
	Alternate Light Source	Blue light (420-470 nm). PRD.
CD4RUG	Visual Examination	First visual examination by using daylight and white light. Nothing detected on the item.
	1,2-Indanedione	Because of the blue colored paper i used 1,2-Indandione. The item was then placed in a humidity cabinet for 20 minutes with temperatur 75 degrees Celsius, and 62 % humidity. Nothing detected on the item.
	Alternate Light Source	After the use of 1,2-Indandione, I used 505 nm light and orange filters, and a very good quality print was detected in section B on item 3.
CEHCMR	Ninhydrin	On 07/05/2022 at 2007 hrs. item #3 was processed using Ninhydrin (lot #102221) temp75C, 80% moisture, time 5 minutes. A test print was run prior to the item. A test print was run with the item. Both test prints were positive (+). White light source w/ green filter was used.
CEHE8P	Visual Examination	White light. No ridge detail observed
	1,2-Indanedione	IND with zinc chloride formula. 100 degrees C, 0% humidity in Nincha chamber
	Alternate Light Source	Crimescope CS-16-500. 515nm, visualized using orange barrier filter goggles. Ridge detail observed in Quadrant B.
CK8PNF	Visual Examination	Crimelite, TracER laser
	DFO	Dry Oven, 100 Degrees Celsius for 20 mins
	Ninhydrin	Humid Oven, 65% Humidity 80 Degrees Celsius for 3 mins
CNRL8Y	Ninhydrin	Treated with ninhydrin, placed in development chamber, and visually viewed
CQDL8E	Visual Examination	Used crimelite, TracER laser, and incandescent lighting
	DFO	Incubated in the DFO oven for approximately 20 minutes
	Ninhydrin	Incubated in the Ninhydrin oven for approximately 3 minutes

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WebCode	Development Methods	Method Details
CWLR4L	Visual Examination	oblique lighting; no ridge structure
	1,2-Indanedione	heat press, positive control
	Alternate Light Source	Crimescope - 515nm, orange filter; ridge structure collection value
	Ninhydrin	steam iron, positive control; ridge structure no collection value
	Ninhydrin 48hr wait	ridge structure no collection value
CZXR4J	Visual Examination	Item was examined for visible friction ridge detail under white light magnification.
	Ninhydrin	Item was submerged in a ninhydrin (NIN) bath and agitated until completely wet, then hung up to dry in a fume hood until completely dry, then placed in the CARON chamber at a humidity level of 60% for approximately 30 mins, then examined for friction ridge detail under white light magnification.
	Physical Developer (PD)	Item was submitted to the Latent Print Unit for further processing. LPT conducted the processing on 7/20/22 with batch #503. After processing, the item was examined for friction ridge detail under white light magnification.
D36EBV	1,2-Indanedione	Observed positive results on panel B with ALS 505 wavelength.
	Ninhydrin	Observed positive results on panel B with white light.
D4FA2U	Visual Examination	with ambient light and white light
	1,2-Indanedione	with ZnCl ₂ ; processed with heat press @~160C for 10 sec Laser exam at 532nm with orange barrier filter
	Ninhydrin	processed with iron, then left in a dark space for ~48hr
D8UWML	Visual Examination	I examined the piece visually for one minute to see if the latent print could be identified, but it could not be seen.
	Alternate Light Source	For one minute examine the piece using an alternating white light to see if the latent print could be identified, but it could not be seen.
	Iodine crystal ampoules	The piece was place in a plastic bag with iodine crystal ampoules, the ampoules broken and the bag was sealed and move for a few minutes.
D9R8KA	DFO	
DEXTGK	Visual Examination	The item was visually examined using white light and magnification.
	Ninhydrin	The item was immersed in a small tray of solution until the entire surface of the item was wet. The item was allowed to completely dry in the fume hood. Once the CARON chamber reached 60 degrees Celsius and 60% humidity the item was placed inside for approximately 30 minutes. The item was visually examined using white light and magnification.
	Physical Developer (PD)	Processing was completed by Latent Print Technician on 06/22/22, Batch #502. The item was visually examined using white light and magnification.
DG673R	Visual Examination	
	Ninhydrin	Steam used.

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WebCode	Development Methods	Method Details
DHYULN	Visual Examination	no ridge detail observed
	Ninhydrin	sprayed surface and allowed ample time to dry
	Visual Examination	no ridge detail observed
	Powder Dusting	black mag powder no ridge detail observed
DJRTUU	Visual Examination	
	Alternate Light Source	
	DFO	chamber
	Ninhydrin	
DN4VKW	Visual Examination	Item was visually examined prior to any processing.
	Ninhydrin	Ninhydrin: NIN Lot: 11192021JRL, exp. 11/19/2022. Positive control conducted with appropriate results. Item was treated (sprayed) with NIN, and allowed to air dry. Once dry, the item was treated with steam for approximately one (1) minute. Item was transferred to secure locker to process for forty-eight (48) hours.
DQCVWQ	Visual Examination	White light
	1,2-Indanedione	200°F, 20 minutes
	Visual Examination	Fluorescence crimelite blue green + orange filter
	Ninhydrin	Room temperature 48h development
	Visual Examination	White light, green light
DVHT2N	Visual Examination	I performed a visual examination to locate the fingerprint but it was not visible.
	Alternate Light Source	I used a white light flashlight in an oblique direction to highlight the fingerprint but it was not visible.
	Ninhydrin	I used ninhydrin and spray all over the porous and absorbent surface and wait a while for it to dry.
E3YJ6V	Visual Examination	Visual no print observed
	Alternate Light Source	ALS no print observed
	Ninhydrin	Ninhydrin Novec Lot #: NINNOV211027 Heat Print Section B
EAGUEP	Ninhydrin	Item was treated with ninhydrin spray and left to dry at room temperature for 10 minutes until fully developed.
ELWM6K	Powder Dusting	Inspected the object visually. Item was processed in about five minutes using graphite black powder and a feather duster.
ELWZBD	Visual Examination	
	DFO	
	Ninhydrin	

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WebCode	Development Methods	Method Details
EQ678J	Visual Examination	Evidence was visually examined. no ridge structure was noted on the evidence. no photographs were taken
	1,2-Indanedione	Evidence was saturated with 1,2-Indanedione, and then hung to dry. Once dry, evidence was heat-pressed for 10 seconds at 326 degrees F. positive control
	Alternate Light Source	evidence was examined with Crimescope at 515 nm with orange filter. ridge structure in quadrant B (Latent 1C-1) was comparison value and photographed
	Ninhydrin	Evidence was saturated with Acetone Base Ninhydrin and then hung to dry. Once dry, evidence was placed in a humidity chamber at 100 degrees C and 80% humidity for 25 minutes. Evidence was removed from the humidity chamber on 6/21 at 3:47pm and examined. positive control. Ridge structure was very faint and no comparison value, so no photographs were taken
	Ninhydrin 48 hour wait	Evidence was placed under paper in a dark area for 48 hours to allow for complete Ninhydrin development. Evidence was examined on 6/24 at 8:30am; ridge structure was very faint and no comparison value, so no photographs were taken.
EVF4QZ	Visual Examination	Before enhancement : - Incident and field lightning with white light (crimelite 2) - Raking light (crimelite 2)
	1,2-Indanedione	With hot press 165°C during 10s Visual examination with Blue-Green light 475nm (crimelite 82S) with orange filter
	Ninhydrin	24h in a Nincha Cabinet (27°C - 65% humidity) Visual examination with white light (labino MB 3.0 Selene)
F4P3LM	Visual Examination	Examined for patent prints.
	1,2-Indanedione	I applied 1,2-indanedione to the paper and put the paper in a 100 degree Celsius oven for 20 minutes.
	Alternate Light Source	I used the Bright Beam Laser at 532nm with orange laser goggles to visualize the processed paper.
F4QTWB	Visual Examination	Visual examination using ambient lighting, incandescent lighting, Crimelite
	DFO	DFO application and placed in oven at 100C for 20min. Viewed using TracER laser
	Ninhydrin	Ninhydrin application and placed in oven at 80C for 3min
F6ZZY4	Visual Examination	
	Ninhydrin	Hexane solution Humidity chamber processing time of 20 minutes at 70% humidity and 70 degrees F.
F8ULVG	Visual Examination	Visual examination under white light and magnification on June 29, 2022. No prints were observed.
	Ninhydrin	Ninhydrin (batch #307) and processing in the CARON on June 29, 2022. No prints were observed.
	Physical Developer (PD)	Physical Developer (batch #503) on July 20, 2022 by [name]. No prints were observed.

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WebCode	Development Methods	Method Details
FB97VB	1,2-Indanedione Ninhydrin	
FBAW7Y	Visual Examination Ninhydrin	Visual examination of the sheet of paper; ridge detail was not observed. Quality control of the running ninhydrin was performed prior to processing. Purple ridges developed from the QC. Processed the sheet of paper using running ninhydrin and then allowed to air dry. The sheet of paper was placed inside the Caron chamber for approximately 7 minutes. Purple colored ridge detail developed. The chamber settings were 80°C and 65%RH.
FBPHDF	Visual Examination Ninhydrin Physical Developer (PD)	Visual examination under fluorescent light and magnification. The item was immersed into a tray of Ninhydrin (Batch 306) until all surfaces were completely wet. The item was allowed adequate time to completely air dry. The item was placed into the CARON chamber at sixty (60) degrees Fahrenheit and sixty (60) percent humidity for one (1) hour, checking after every fifteen (15) to thirty (30) minutes. Visual examination under fluorescent light and magnification. The item was processed with Physical Developer (Batch 502) by Latent Print Technician. Visual examination under fluorescent light and magnification.
FBR6WE	Visual Examination Ninhydrin Physical Developer (PD)	Visual - Magnified LED light - no prints were observed Ninhydrin Batch #305. Ninhydrin processing time approx. 45 seconds. Caron heat chamber processing time 50 minutes. LED Magnified Lighting. No prints were observe Physical Developer Batch #500. Processing Times: Maleic - 10 min.; PD - 10 min. LED magnified light. Print developed
FCFPDJ	Visual Examination Alternate Light Source Ninhydrin	I examined the piece for a minute and I was able to identify the latent print. I examined the piece using an alternative white light and confirm the latent print in the letter B. The piece was spraying with ninhydrin and wait for a few minute.
FENQNH	Visual Examination Ninhydrin Physical Developer (PD)	I looked at Item 3 under LED lighting before any processing had been done to it. I submerged Item 3 in ninhydrin for approximately 1 minute, let it dry in a fume hood, and then put it in the Caron chamber for approximately 20 minutes. Item 3 was submerged in a physical developer solution at the end as a last attempt at enhancing any ridge detail.
FENQUJ	1,2-Indanedione Alternate Light Source	50°C, 40% rel. humidity, 2,5h Lumatec F05, 475nm, orange filter

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WebCode	Development Methods	Method Details
FFLZM2	Visual Examination Ninhydrin	Using eyesight + light sources. Flashlight: No visible prints or stains. Ninhydrin -treatment: Item 3 is porous, evenly coloured material so we decided to use Ninhydrin treatment using NINcha M31 climatic cabinet. In the cabinet: humidity 65%, temperature 80 degrees Celsius, time 30 minutes. Test print made as per work instructions. Test print ok. After the treatment, a visible print emerges to section B. No other prints or stains become visible by the time we write this report. The print which emerged with Ninhydrin-treatment was comparable.
FJHQZR	Cyanoacrylate Fuming	
FJRRJ6	Visual Examination Alternate Light Source Iodine Fuming DFO Ninhydrin	No latents observed. Forensic Light Source. No latents observed. No latents observed. Friction ridge detail observed within quadrant "B". Ninhydrin Petroleum Ether. Friction ridge detail observed within quadrant "B". Very faint reaction on paper with the ninhydrin compared to control conducted on a piece of blue paper.
FKUA2N	Ninhydrin	
FM76MG	Visual Examination Ninhydrin Physical Developer (PD)	Item was visually examined using LED light under magnification. Item was fully submerged into ninhydrin solution. Item was the hung in a hood to dry. After item was dry, it was placed in a humidity chamber. Item was periodically checked for enhancement while inside the instrument. Item was in the humidity chamber for approximately 1 hour. Item was visually examined using LED light under magnification. Item was processed in physical developer by a latent print technician on 6/22/22. Item was visually examined using LED light under magnification.
FNWCLJ	Crystals iodine	Perform a visual inspection, to locate the footprint. This was not visible, with light it was not visible. Use the crystals iodine wait for it to dry and the footprint was preserved in photo. The footprint is located in the letter B.
FPNDLF	Ninhydrin	1. Visual examination, using light source. 2. Ninhydrin (30 minutes, 65 % humidity, 65 c temperature). 3. Visual examination.
GA4HJP	Visual Examination Ninhydrin	Visual examination using CrimeScope's light source Processing with the Ninhydrin for 24 hours
GFF29J	Visual Examination	An ocular inspection was performed on piece number three which is divided into four lettered parts. No fingerprint could be identified.
GJ3QG3	Visual Examination DFO Ninhydrin	 20 mins in oven 3 mins in oven

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WebCode	Development Methods	Method Details
GKCVUQ	Visual Examination	white light
	1,2-Indanedione	Heat press @ 160 degrees C for 10 seconds
	Alternate Light Source	Laser @ 532 nm with Orange barrier filter
	Ninhydrin	Steam Iron
GKWCCE	Visual Examination	fluorescent light
	Ninhydrin	batch #306, fluorescent light
	Physical Developer (PD)	batch #502, fluorescent light
GLNKAW	Visual Examination	
	Iodine Fuming	
	Ninhydrin	Ninhydrin Chamber (80°C ± 5°, 65% Relative Humidity ± 5%)
GMZAGF	Visual Examination	Examined with white light and magnification on 6/10/22.
	Ninhydrin	Submerged in Ninhydrin, Batch #306, then air dried on 6/10/22. Placed in humidifying machine: CARON Examined with white light and magnification.
	Physical Developer (PD)	Processed by LPT on 6/22/22, Batch #502. Examined with white light and magnification on 6/24/22.
GNQK89	Visual Examination	With the use of a magnification and fluorescent light but could not find the finger print.
	Ninhydrin	With the use of a Ninhydrin aerosol spray, room temperature and few minutes later, the finger print was very light.
GPHHFF	1,2-Indanedione	1,2 Indanedione (in a NinCha S31 cabinet)
GUCF7R	Ninhydrin	Item placed in dark place for 8 days.
GV6DEX	Ninhydrin	After 30 minutes processing time, ridge detail noted. Additional development time at room temperature.
GZHCQR	Visual Examination	no RD located
	1,2-Indanedione	Lot # LP12032318, heat press, 320 degrees F (160 degrees C), BrightBeam laser, 532 nm, orange goggles
	Ninhydrin	Ninhydrin (HFE7100) working solution lot # LP13041922, steam iron
H34BNL	Visual Examination	
	Alternate Light Source	High intensity light source examination using a range of lights: Green, blue and UV
	DFO	100 DEGREES , 20 MINUTES
	Ninhydrin	80 DEGREES, 62%RH, 4 MINUTES TREATMENT TIME
H82MUK	DFO	
	Ninhydrin	
H82PBC	Ninhydrin	a visual exam was performed with no fingerprint observed, it was then dipped in ninhydrin for 3 minutes and hung to dry after a day a fingerprint was observed in section b this was then photographed with a scale.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
H84CUB	Visual Examination	Ambient light, flashlight, laser
	DFO	DFO, oven, laser
	Ninhydrin	Ninhydrin, humidity chamber, ambient light/flashlight
HEK38P	DFO	
	Ninhydrin	
HJRLCA	Visual Examination	No latent print observed during this step.
	Iodine Fuming	No latent print observed during this step. Latent print visible on control item.
	DFO	Two orange filters used; pattern type visible.
	Ninhydrin	Some light purple spots on paper visible, but latent print was no longer distinguishable.
HNPZ47	Visual Examination	Visual examination of the blue piece of paper, no ridge detail observed.
	Ninhydrin	Applied Ninhydrin to the paper via a lab squeeze bottle. Allowed to dry for approximately 10 minutes. Placed the paper in the Caron machine on the Ninhydrin settings (80 degrees Celsius and 65% humidity) for approximately for 10 minutes. Ridge detail with purple coloring developed. No other ridge detail observed.
HPJNKF	Visual Examination	Visual examination under white light and magnification.
	Ninhydrin	Ninhydrin batch #306. Item was immersed in a tray of solution until all surfaces were completely wet. Item was air dried thoroughly. Item was placed in the CARON chamber at 60 degrees F and 60% humidity for one (1) hour, checking after 30 minutes.
	Physical Developer (PD)	Physical Developer batch #502. Processing was completed by Latent Print Technician.
HQBMWT	DFO	Treat with DFO, dried in oven, viewed with blue laser.
HR2WJF	1,2-Indanedione	Item 3 - InD with ALS
HU9EFQ	Visual Examination	
	Ninhydrin	The print came out very lightly using Ninhydrin while the test print was developed with strong contrast.
	ORO	Negative results using ORO.
HV8D36	Visual Examination	06-02-22 16:00 - latent print possibly located in quadrant "B"
	Alternate Light Source	06-02-22 16:30 - 532 nm Coherent Tracer Laser
	DFO	06-02-22 18:00 - "DFO 01-07-22" - latent print located in quadrant "B"
	Ninhydrin	06-02-22 19:15 - "Nin 01-07-22" - latent print located in quadrant "B"
HWJ383	Ninhydrin	Item was dipped in ninhydrin and placed in a humidity chamber for twenty minutes.
HWMQPG	Ninhydrin	Dipped in ninhydrin; hung to dry. Print developed in square "B"
HY8L6U	Ninhydrin	Stained with Ninhydrini soln. Processed for 15min @ 80oC and 70%RH

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
HY9CFH	Visual Examination	Examined the piece of paper as is, using ambient lighting, oblique lighting, ultra violet light (UV), LASER, and alternate light source (ALS).
	DFO	Dipped the item twice in DFO, let it dry for a few seconds, then put it in the oven (100°C) for about 20 min. Examined under LASER.
	Ninhydrin	Dipped the item in Ninhydrin, let it dry for a few seconds, then put in the humidity chamber (70°C) for about 10 min or until the latent impression turns Ruhemman's Purple.
	Zinc Chloride	Sprayed the item with Zinc Chloride. Examined under ALS.
	Physical Developer (PD)	Dipped the item in Maleic Acid for about 5 minutes, and then dipped the item into PD for 20 min. Let it dry under the lights.
HZJE43	Visual Examination	July 13, 2022
	Ninhydrin	
	Time	Time (let item rest and allow chemical to develop)
	Visual Examination	July 15, 2022
	Time	Time (let item rest and allow chemical to develop)
	Visual Examination	July 21, 2022 Then photograph
	Time	Time (let item rest and allow chemical to develop)
J7KVCM	Visual Examination	
	Alternate Light Source	UV: 350-380nm. Blue-Green 445-510nm
	Laser	Laser: 532nm
	DFO	Oven time: 20min. Temperature 100°C
	Ninhydrin	Humidity Chamber time: 20min. Temp: 70°C. Humidity: 65%
J8WU6B	Visual Examination	One (1) sheet bluish colored paper.
	Alternate Light Source	Inherent Luminescence Exam.
	Iodine	Iodine Fuming
	1,2-Indanedione	Dry and apply heat in lab oven for 20 minutes. Impression developed in quadrant "B".
	Alternate Light Source	PL500 @ 505nm.
	Ninhydrin	Dry and apply heat and humidity with steam iron.
J9U3DU	DFO	20 minutes in 100 degrees C
JVZQUP	Alternate Light Source	Mark search was done by following ways: 1. Blue Light (445 nm) using Goggle (495 nm). 2. Green Light (532 nm) using Goggle (550 nm)
	1,2-Indanedione	Sprayed with 1,2 Indanedione, kept in Oven for 20 mins to dry at 100C temperature, with 0% humidity. After 20 mins, Mark search was done by using 532nm light (green) with goggle (550nm), Mark found on Section B
	Ninhydrin	Sprayed with Ninhydrin, kept in Oven for 20 mins to dry at 80C temperature, with 65% humidity. After 20 mins, Mark search was done by using Naked eye and White light, no additional mark found

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
K7K8DN	Ninhydrin	6/15/2022 Ninhydrin Processing -Ninhydrin applied - 1125 hours -Handheld steamer applied intermittently - 1131 hours to 1136 hours Ninhydrin (+) control - Lot #: 11192021JRL, Exp: 11/19/22
KDVHFN	Ninhydrin	
KERUEW	Ninhydrin	
KJ4X8K	Visual Examination	Vis ~ 20 minutes
	Alternate Light Source	368nm and 505nm
	Laser	Laser exam @532nm
	DFO	DFO reagent in 100° oven ~25 minutes
	Ninhydrin	Ninhydrin reagent in chamber ~25 minutes @ ~70° and 65% RH
KKZKFH	Visual Examination	I Perform a visual inspection of the object to locate the fingerprint.
	Alternate Light Source	I used an alternating white light in an oblique direction to highlight fingerprint inaccuracies the inspection was not visible.
	Ninhydrin	I used Ninhydrin throughout the document let it dry for lifting the footprint.
KRZWH7	Visual Examination	USING OBLIQUE LIGHTING
	Alternate Light Source	FORENSIC LIGHT SOURCE
	IODINE FUMING	ZIPPER BAG APPLICATION METHOD
	DFO	LOT # DFO-022422
	Alternate Light Source	FORENSIC LIGHT SOURCE WITH ORANGE FILTER
	Ninhydrin	NINHYDRIN PE (LOT # NIN-PE-021822)
KUN7UT	DFO	Oven at 100 degrees C for 20 minutes
	Alternate Light Source	Prints viewed using forensic laser.
KWCU2L	1,2-Indanedione	The paper was placed in 1,2-Indanedione solution, let paper around 20 minutes to dry. Using crime lite (blue/ green 450/510nm@ Orange filter (529nm)). A latent print was not appeared any place.
	Ninhydrin	Putting paper on Ninhydrin solution, let paper dry around 15 minutes. Latent print was appeared on B position.
KXNF3A	Visual Examination	A fluorescent light was used while looking at the item at various angles under magnification.
	Ninhydrin	I poured the ninhydrin into a glass tray in a fume hood and it was batch 306. I immersed the item into the tray and hung it to dry in the fume hood. I turned on the Caron chamber before starting the process to get the settings where they need to be. When the chamber was ready I placed the item in the chamber and left the item in the chamber for 45 minutes. I examined the item under a fluorescent light at various angles under magnification.
	Physical Developer (PD)	This process was completed by Latent Print Technician and the batch number was 502. I examined the item under a fluorescent light at various angles under magnification.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
KXQZUJ	Ninhydrin	I then applied heat to enhance the chemical reaction. I observed limited detail.
	Alternate Light Source	Used alternate light source in attempt to enhance the latent.
LFX2TA	Visual Examination	An ocular inspection was performed on piece number three which is divided into four lettered parts. No fingerprint could be identified.
	Alternate Light Source	Alternating white, violet, green and red light was used and no fingerprint could be identified.
	Iodine pipettes	Iodine pipettes were used for the development of fingerprint identification. With the use of the chemical, a fingerprint not very visible in region B was identified
	Ninhydrin	The reagent ninhydrin was used which made the fingerprint more visible.
LRH4JG	Visual Examination	Natural light, flashlight, SUV/FSIS, UV, Laser, ALS
	DFO	Laser
	Ninhydrin	
	[No Methods Reported.]	Zinc Chloride/ALS
	Physical Developer (PD)	
LRVRMU	Forensic Light Source & Alternate Light Source	Using a handheld flashlight and a ROFIN PL500 polilight to conduct a visual examination of item-3, I found no ridge detail prior to chemical processing.
	Ninhydrin	Item-3 was treated with Ninhydrin and left to cure. A standards test was performed on this reagent prior to being applied to testing materials. The Ninhydrin performed as expected.
	Ninhydrin	At 24 hrs. post application (prior to exposing the item to steam) ridge detail of a recordable level was found within quadrant-B. After documentation occurred, the ridge detail was exposed to steam. Additional development was achieved.
LTB2RN	Visual Examination	I began processing with a visual examination using alternate light sources (white light, coaxial light, 450 nm, 505 nm, and laser light); no results were visible at this time.
	1,2-Indanedione	I then dipped the item (and control) into Indanedione and allowed to dry in the Fume Hood. I then placed item and control into an oven at 100°F for approximately 10 minutes. I examined the item (and control which exhibited expected results) using 450 nm and 505 nm light sources and documented visible ridge detail. Item set for approximately 24 hours before being treated with the next chemical.
	Ninhydrin	Lastly, I dipped the item (and control) into Ninhydrin and allowed to dry in the Fume Hood. Item developed at room temperature for the weekend. I examined the item (and control which exhibited expected results) using a white light and documented visible ridge detail.
LUZE8L	Visual Examination	
	Ninhydrin	acetone base

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
LYCBXG	Visual Examination	Utilized ambient light and flashlight for visualization.
	1,2-Indanedione	Utilized Heat Press for dry heating method and viewed with green laser and orange goggles. Control Test = positive.
	Ninhydrin	Utilized Caron Heat/Humidity Chamber for humid heating method. Control Test = positive.
M47KPU	Visual Examination	Direct lighting
	Ninhydrin	Steam iron Second examination on 06/22/22
	Zinc Chloride	06/22/22 Steam iron, ALS at 505nm with orange filter
M8GRYL	Visual Examination	Flashlight - negative results
	Alternate Light Source	Various wavelengths and goggles - negative results Laser - negative results
	1,2-Indanedione	Faint results visible in Quadrant B
	Alternate Light Source	Laser - positive results in Quadrant B
MFHRNF	Visual Examination	Examined the item using Oblique lighting, UV lamp, ALS and LASER lighting.
	DFO	I dipped the item in DFO, allowed the item to dry, placed the item in the oven at 100 degrees for approximately 10 minutes. Removed the item from the oven and examined the item under a LASER using orange goggles/filter. I waited 24 hours, examined the item under a LASER using orange goggles/filter before processing with the next method.
	Ninhydrin	I dipped the item in Ninhydrin, allowed the item to dry, placed the item in a humidity chamber at 70 degrees and 70% humidity for approximately 10 minutes. Removed the item from the humidity chamber and examined. I waited 24 hours, examined the item again before processing with the next method.
	Zinc Chloride	I sprayed the item in a light mist of Zinc Chloride, allowed the item to dry, placed the item in a humidity chamber at 70 degrees and 70% humidity for approximately 10 minutes. Removed the item from the humidity chamber and examined the item under an ALS using orange goggles/filter. I waited 24 hours, examined the item under an ALS using orange goggles/filter before processing with the next method.
	Physical Developer (PD)	I placed the item in a Maleic Acid prewash for approximately 10 minutes and then placed the item in the PD solution for approximately 20 minutes. I then washed the item with tap water and allowed the item to dry.
MG93CM	Forensic ligths	The evidence is checked using "Lumatec 400" forensic light with all spectrum. 22°C room temperature.
	1,2-Indanedione	All ITEM 3, is immersed in a INDANEDIONE solution. Natural drying. The oven is used to visualice the developed latent print. 100°C Temeperature. 0% humidity (20 minutes)
	forensic ligths	The evidence is checked again using forensic light with all spectrum.
	Ninhydrin	The ITEM 3, is immersed in a Ninhydrin solution. Natural drying. The oven is used to visualice the developed latent print. 80°C Temperature. 65% Humidity. (7 minutes)
	Forensic ligths	The evidence is checked again using "Lumatec 400" forensic light with all spectrum.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
MH6DCW	Visual Examination	White light, 0 photos. LASER, 0 photos.
	1,2-Indanedione	Dry heat press at 100 degrees for 2 minutes. LASER, 1 photo.
	Ninhydrin	Steam heat. White light, 0 photos.
ML8A4C	Visual Examination	used white light and ambient lighting
	Alternate Light Source	used Rofin PL550
	1,2-Indanedione	used heat press to develop for approximately 10 seconds at approximately 325 degrees F, item placed in between pieces of butcher paper
	Ninhydrin	used steam iron to develop for approximately 20 seconds, item placed in between pieces of butcher paper
	Physical Developer (PD)	sat in maleic acid for approximately 20 minutes, then allowed to process in PD for approximately 10 minutes
MRU3C6	Visual Examination	Item #3 was visually examined with oblique lighting, 2 minutes
	Alternate Light Source	Item #3 was visually examined with a Forensic Light Source, 2 minutes
	Iodine Fuming	Item #3 was fumed with Iodine, control conducted prior, 5 minutes
	DFO	Item #3 was processed with DFO in a fingerprint development chamber, control was conducted prior and concurrent to development, 20 minutes
	Ninhydrin	Item #3 was processed with Ninhydrin (Petroleum Ether) in a fingerprint development chamber, control was conducted prior and concurrent to development, 20 minutes
MUE8QU	Visual Examination	White light, oblique light
	Alternate Light Source	All wavelengths
	Ninhydrin	
	Silver Nitrate	
MVPZDG	iodine crystals	Using a pipette with the iodine crystals, insert the straw and break the capsule to activate the iodine. The iodine vapors are applied by blowing into the nozzle on the surface of item 3, revealing the lofoscopic fragment in quadrant B.
MVV3EN	1,2-Indanedione	Paper was saturated with Indanedione, heat and humidity was added.
	Ninhydrin	Paper was saturated with Ninhydrin, heat and humidity was added.
MXZTHH	Visual Examination	White light
	Alternate Light Source	368nm 505nm
	Laser	532nm
	1,2-Indanedione-Zinc Chloride	Humidity Chamber Temperature Range 65-85°C, set point 70°C Relative Humidity Range 60-70%, set point 65% Evaluated at 532nm

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
MYQ2LR	Visual Examination	Visual exam of the item was completed. No visible prints were located at this time.
	Ninhydrin	The item was then chemically processed using Ninhydrin (Lot #111721-01). The item was dipped, on both sides, into the Ninhydrin. This process was done inside of the chemical fume hood. The item was hung to dry for approximately 5 minutes before moving on to the next step.
	Caron Chamber	The item was then placed into the Caron Humidity Chamber. This step of the process takes approximately 3 minutes inside of the chamber. The temperature is set to 80 degrees Celsius and the relative humidity is set to 65%. A test print (positive/negative control) is used during the process as well. Once completed, very light ridge detail was partially visible in Quadrant B.
MZZ9MY	Ninhydrin	10 minutes in climate chamber 70 degrees celsius RH 65%
N2VWXG	Visual Examination	White light examination of exhibit as received using ambient laboratory lighting and 'Tiablo' High Power LED Flashlight at varying angles. No useful marks were observed.
	Alternate Light Source	Sequential initial High Intensity Light Source (HILS) examination carried out, following dark adaptation, using Green Crime Lite 480nm-560nm with 571 nm viewing filter followed by Blue Crime Lite 420nm-470nm with 476nm viewing filter and UV Crime Lite 350nm- 380nm with 408nm viewing filter. QA adhered to and control test pieces passed. No useful marks were observed.
	1,2-Indanedione	Item 3 was treated with 1,2-Indandione and item was placed in the Thermo Fisher oven for 14 minutes and 30 seconds. Following dark adaptation, examined using the Green Crime Lite 82S 490-560nm with 571 nm viewing filter. QA adhered to throughout and control test piece passed. Ridge detail was developed in Section B of paper. This was exhibited as [Initials]/3 and photographed.
	Ninhydrin	Item 3 was treated with Ninhydrin and allowed to dry. Treated in oven set at 62%RH & 80°C for 4 minutes (2 minutes recovery time included in time). Examined using 'Tiablo' High Power LED Flashlight (white light) at varying angles on same day. QA adhered to and control test piece passed. No useful marks were developed and '[Initials]/3' was not further enhanced.
	Physical Developer (PD)	Item 3 was treated with Physical Developer. Ensured all solutions and room temperature >17°C. Pre-treated with Maleic Acid for 10 minutes, treated with Physical Developer Working Solution for 20 minutes followed by 3 x water rinses as per procedure. All treatment stages carried out on rockers so exhibit was constantly agitated throughout. When dry, item was examined using 'Tiablo' High Power LED Flashlight (white light)at varying angles. QA adhered to and control test piece passed. No useful marks were developed and '[Initials]/3' was not further enhanced.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
NCCQ39	Visual Examination	I visually examined item 3 under fluorescent light with a magnifying lens.
	Ninhydrin	I placed item 3 into a Ninhydrin bath (batch number 306) and gently agitated for one minute. I allowed the item to dry completely before placing into the Caron chamber at 60 degrees Celsius and 60% humidity for 20 minutes. I then removed it from the chamber and visually examined the item under a fluorescent light with a magnifying lens.
	Physical Developer (PD)	I submitted item 3 to the latent print unit for Physical Developer processing. Item 3 was processed by latent print technician on 6/22/22 under batch number 502. When I received the item back I visually examined the item under fluorescent light with a magnifying lens.
NEKY8M	Visual Examination	ambient and flashlight
	Indanedione	visualized with ALS 455-575nm with orange filter
	Oil Red O	treated for 50 mins, no development with this reagent.
NEMNE6	Ninhydrin	
NG3BXC	Visual Examination	Examined in the white light and the daylight.
	Alternate Light Source	Examined in 350-380 nm (Crimelite 82S), and in 450 nm, 470 nm, 490 nm, 505 nm, 530 nm , 555 nm (Polilight PL500).
	DFO	0,05 percent HFE7100 based solution. The item was processed in the DFO/Ninhydrin chamber Sanyo Gallenkamp for 30 min., t - 100 C, RH - 15 percent. Examined in Polilight PL500 470 nm, 490 nm, 505 nm, 530 nm.
	Ninhydrin	0,2 percent HFE7100 based solution. The item was processed in the DFO/Ninhydrin chamber NINcha L31 for 30 min., t - 65 C, RH - 65 percent. Examined in the white light.
NHJY7V	Visual Examination	
	Ninhydrin	A control test and the item were processed with ninhydrin. Distance: From eight inches away, then it was left to air dry for 24 hours at temperature and humidity room condition.
NQEFWN	Visual Examination	Processing time - 3 minutes. Ambient light.
	Alternate Light Source	Processing time - 4 minutes. All available wavelengths used to examine with Mini CrimeScope.
	1,2-Indanedione	Processing time - 6 minutes. Dual 77 laser used at 520 nm for examination.
	Ninhydrin	Processing time - 5 minutes. Steam of warm iron used to speed up rate of reaction. Purple color noted in test print.
NY8NHE	Visual Examination	No ridge detail noted.
	Alternate Light Source	Mini-Crimescope - all wavelengths available. No ridge detail noted.
	1,2-Indanedione	Viewed with Dual 77 laser at 520 nm. Ridge detail noted in Quadrant B - whorl pattern type.
	Ninhydrin	Humidity chamber used for approximately 10 minutes. No additional ridge detail noted.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
P33N BG	Visual Examination	In daylight and in whole spectrum of Polilight PL 500 none fingerprint.
	DFO	A fingerprint has been disclosed - section B.
	Ninhydrin	A fingerprint not visible in daylight.
P3H67A	Ninhydrin	Visually examined - Heptane carrier mixture of Ninhydrin used, (submersion method, air drying and exposure to heat and humidity). Visually examined utilizing ambient light. Very faint development only visible at 3X or higher magnification.
PE2FZU	Ninhydrin	Dipped item in tray x 2.
PEVAD6	1,2-Indanedione	Sprayed item with 1,2 Indanedione, allowed to air dry in ductless fume hood, placed in fingerprint fuming chamber for 10 minutes at 100 degrees centigrade, sprayed with Zinc Chloride and allowed to dry in ductless fume hood. Examined item under alternate light source at 505 nm wearing orange glasses.
PG4DBM	Visual Examination	Five (5) seconds. No RD noted.
	Alternate Light Source	Five (5) minutes looking for Inherent Lumination with Mini-Crimescope all wavelengths. No RD noted.
	1,2-Indanedione	Thirty (30) minutes processing and used Mini-Crimescope at 515 nm. RD developed in section B.
	Ninhydrin	Thirty (30) minute processing, also used a steam iron. No additional RD developed.
PGLBG8	Ninhydrin	Perform a visual inspection to locate the footprint. This was not visible, with light it was not visible. Use the chemical Nynhydrin wait for it to dry and the footprint was located in the letter B
PHY3BA	Visual Examination	White light from various lamps.
	Alternate Light Source	Various colours of light using polilight.
	1,2-Indanedione	Processing time approx 20 mins includes laser lightsearch.
	Ninhydrin	Processing time approx 40 mins includes white lightsearch.
	Physical Developer (PD)	Processing time approx 40 mins includes white lightsearch.
PK79WB	Visual Examination	No Impressions observed using direct and oblique lighting
	Ninhydrin	Sprayed paper with ninhydrin solution. Allowed ample time to dry. Applied Moist heat. Then allowed to dry.
	Visual Examination	No Impressions observed using direct and oblique lighting
	Powder Dusting	Black Magnetic powder
	Visual Examination	No Impressions observed using direct and oblique lighting

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
PLWKPP	Visual Examination	No ridge detail observed during a visual examination.
	1,2-Indanedione	The item was treated with 1,2-Indanedione and allowed to air dry for 5 minutes. The item was placed in a fingerprint chamber at 100 degrees Celsius and zero percent humidity for 10 minutes. The item was removed from the chamber and allowed to cool for 3 minutes. The item was treated with Zinc Chloride and allowed to air dry for 5 minutes.
	Alternate Light Source	The item was examined with an alternate light source using the 505nm light spectrum while wearing orange UV goggles. Ridge detail was observed in section "B".
PREY6F	Visual Examination	
	DFO	
	Ninhydrin	
PVHMQX	Ninhydrin	80 degree C, 65 % humidity, 10 min
Q3ZH67	Alternate Light Source	A visual inspection of piece # 3, using alternating white light and a magnifying glass, was made where the fingerprint was located.
	Ninhydrin	I sprayed Ninhydrin on the paper, where the fingerprint was located.
Q4U4YX	Visual Examination	White light and fluorescence examination 350 nm - 650 nm.
	DFO	Item dipped in the liquid, heated in oven for 15 min. at 95 C, exam with light 505 nm.
	Ninhydrin	Item dipped in the liquid, heated in oven for 15 min. at 75 C, 65% Rh, exam with white light.
Q9KGXZ	Ninhydrin	Perform a visual inspection to locate the footprint. This was not visible, with light it was not visible. Use the chemical Ninhydrin wait for it to dry and the footprint was located in the letter B.
QADE77	Visual Examination	White light/ALS
	Ninhydrin	x2
QC3QV4	Visual Examination	Visual examination with LED lighting and magnification
	Ninhydrin	NIN processing in Caron chamber, visual examination with LED lighting and magnification
	Physical Developer (PD)	PD processed by another, visual examination with LED lighting and magnification
QEQCGZ	Ninhydrin	A visual inspection with alternative light was made of the piece of evidence. The piece of evidenced was worked nihydrine.
QFNKMY	Visual Examination	White, blue, and green light source. No visible print.
	1,2-Indanedione	Print was visible after processing.
	Ninhydrin	No visible print.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
QM9GVU	Visual Examination	w/ oblique light 15 min
	Forensic Light Source	15 min
	Iodine fuming	15 min
	DFO	w/ Forensic Light Source 15 min
	Ninhydrin	Petroleum Ether; 15 min
QQ8RQU	Visual Examination	Checked for any possible trace evidence and visible latent print evidence. Oblique lighting. (Flashlight) Processing Time: 3 Minutes
	Inherent Florescence	Detection of latent prints prior to chemical processing. Forensic Light Source. Processing Time: 3 Minutes
	DFO	DFO- Processing Time: 10-20 Minutes
	Forensic Light Source	Laser used in conjunction with dye stain processing. Processing Time: 30 Minutes
	Visual Examination	Checked for any visible latent print evidence. Processing time: 5 Minutes
	Ninhydrin	Ninhydrin- Processing Time-5-20 Minutes
	Visual Examination	Checked for any visible latent print evidence. Processing time: 5 Minutes
QX8CQ4	1,2-Indanedione	50 degree celsius 40% humidity 3 hours
	Ninhydrin	24 degree celsius 65% humidity 24 hours
R4RPA4	Visual Examination	Visual examination under white light and magnification.
	Ninhydrin	Item was soaked in a tray until all surfaces were completely wet. Item was then air dried. The item was placed in the CARON at 60F and 60% humidity for approximately 45 minutes, checking after 30 minutes. Ninhydrin batch 306.
	Physical Developer (PD)	Physical developer batch #502, processed by Latent Print Technician.
R6FAUD	1,2-Indanedione	1h30 at 60 °C (in steamroom) after spraying (Indanedione-zinc in HFE7100 solution)
R8AXCA	Visual Examination	Visual Exam was negative for ridge detail.
	1,2-Indanedione	IND was positive for ridge detail.
RAU26Z	Visual Examination	crime light UV Tracer Laser
	DFO	20 minutes
	Ninhydrin	3 minutes
RBQC6A	Visual Examination	
	DFO	per protocols, post processing possible finger mark
	Ninhydrin	per protocols, post processing purple color consistent with control
RDFMXN	Visual Examination	Visual examination with a flashlight
	Ninhydrin	Used ninhydrin and allowed one week for any possible prints to develop
	[No Methods Reported.]	Used zinc chloride and visualized the latent using a red filter and a forensic light source, Crimescope CS-16-500

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
RE9L7U	Ninhydrin	B-794010 Ninhydrin ready for use solution in HFE7100. Dev temp. 70 degrees C, humidity RH 65%, dev. time 10 min
REPM2A	DFO Ninhydrin	
RGEYUN	Visual Examination DFO Visual Examination	white light, UV - 555nm - Polilight PL 500, suitable goggles processing time - 20 minutes, temperature - 100 degree Celsius 495 - 555 nm, orange and red coloured google
RKCM9A	Visual Examination Alternate Light Source Ninhydrin	Placed in humidity chamber for 5 minutes
RKFZZC	porous processing	Visual Examination, Inherent lumination, 1,2- indanedione, Alternate light source-515nm, Ninhydrin
RNUML4	Ninhydrin	As first step I realized a visual inspection to found the latent print using a white alternate light but this time was not found it visually. Then I used Ninhydrin, wait that dry it an was found.
RUK2BB	Visual Examination Alternate Light Source Ninhydrin	The piece of evidence was examined visually to see if i could identify where the latent print was located. Thoroughly checking each side of the sheet of paper, focusing my view on each of the assigned spaces A,B,C,D. Always documenting the piece through photography. Due to the latent print not being found so easily with just my visual prowess, I added an alternate light source to help the process. Using a flashlight with a white beam of light. To try and help identify where the latent print was located on the sheet of paper. Given the difficulty of not being able to find the latent print in the assigned spaces A,B,C,D. We sprayed Ninhydrin all over the sheet of paper till it was wet and then proceeded heat it up in the oven until it was dry. Exposing the latent print in the middle section of the B side of the sheet of paper.
T2DVG9	Visual Examination Alternate Light Source 1,2-Indanedione Physical Developer (PD)	
TA9QLX	Visual Examination Alternate Light Source Ninhydrin Ninhydrin Fixative	Krimesite scope Lot# 1357083021 Lot# 201706307
TARBUC	Ninhydrin Steam Iron	immersion

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
TAUZ2U	Visual Examination	06/15/2022 @ 1420 hrs. No visible ridge detail
	Laser	06/15/2022 @ 1446 hrs. 532 nm laser. Test/control was positive. Specks of inherent luminescence. No visible ridge detail
	DFO	06/15/2022 @ 1503 hrs Reagent ID DFO 01-07-22 In DFO oven for 20 minutes Visualized with 532 nm laser and orange filter Test/control was positive Ridge detail present and photographed Retained image after processing with DFO due to better contrast Assigned image Item 1-3
	Ninhydrin	06/16/2022 @ 0639 hrs. Reagent ID NIN 01-07-22. Item in NIN chamber 45 minutes. Test/control was positive. No additional ridge detail. The image from the DFO processing had more visible details so didn't take a picture after NIN processing
TH6JXY	Visual Examination	
	Alternate Light Source	
	Iodine Fuming	
	DFO	Processing time 10 minutes
	Ninhydrin	Processing time 10 minutes
TRVZVF	Ninhydrin	Ninhydrin, Iron for steam, Photo copied the item before processing
TXZY76	Visual Examination	Ambient light and Crime Lite ML2 420nm-560nm (red, yellow, and orange filter).
	Ninhydrin	Petroleum ether solution, tray immersion, allowed to air dry in fume hood, steam iron exposure about 3 minutes.
	Visual Examination	Ambient light and Crime Lite ML2 480nm-560nm (orange filter).
TZKVQP	DFO	Used NINcha Chamber
U6V4RT	Visual Examination	
	Ninhydrin	Cured in humidified incubator for approx. 20 minutes.
	Visual Examination	
U9TUQD	Visual Examination	No ridge detail observed during visual inspection.
	DFO	Treated with DFO, heated to 100 degree C for 20 minutes with no humidity.
	Alternate Light Source	Viewed using a forensic laser at 532 nm, where ridge detail observed in section B.
UEGALC	Visual Examination	No print recovered
	DFO	Non-humidified oven at 100 Celsius for 20 minutes, fluorescence examination, print recovered
	Ninhydrin	Humidity controlled oven at 80 Celsius and 65% RH for 5 minutes. Visual examination-no print recovered
UNPXX4	Ninhydrin	Evidence photocopied prior to Ninhydrin. Ninhydrin and humidity applied to the evidence to process evidence.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
UPX4RD	Ninhydrin	Ninhydrin, temperature 72 degrees celsius, humidity 65%, processing time 7 minutes. After processing item 3, it was left in a plastic bag in room temperature to develop before preservation/documentation.
UR3TV8	Visual Examination Alternate Light Source 1,2-Indanedione Physical Developer (PD)	
UR4J7W	Visual Examination Ninhydrin	At the time of the inspection with the alternate white light, the fingerprint was not identified. used a Ninhydrin in spray and identifying the fingerprint in table B.
UR87J4	Visual Examination Alternate Light Source Ninhydrin	A visual inspection of piece of evidence # 3. Using an alternative white light and a magnifying glass was made where the fingerprint was located. I sprayed the ninhydrin on the paper where fingerprint was located.
UT2RCU	Visual Examination DFO Ninhydrin	No fingerprint. The light sources (UV and visible) at the labeled wavelength 350-650 nm and white. Disclosing of a fingerprint. The fingerprint is visible in the light source 505 nm with orange goggles. The fingerprint is not visible.
UT4GJD	Visual Examination Alternate Light Source Ninhydrin Alternate Light Source	Used ambient/oblique lighting. Used UV and 505nm wavelengths and clear and orange filters. Used Caron Development Chamber at 80 degrees, 65% humidity for 5 mins. Some faint ridge detail observed Viewed with ambient/oblique lighting and Alternate Light Source, 505nm wavelength and orange filter
UUBYFM	Visual Examination Alternate Light Source Ninhydrin	The Item was photographed before examination. No prints observed. Examined with white light (Polilight flare 2"ROFIN"). No prints observed. Examined with at 430nm - 550nm (Polilight flare 2"ROFIN") and goggles. No prints observed. Petroleum Ether Solution: Submerged evidence in Ninhydrin, dried and placed in chamber "NINcha S31"(temp. range 65°C, relative humidity 65 %) for aprox. 15min, examine visually, stored in dark location for 72 hours. A visible print was seen in Quadrant B. Prints deposited on similar piece of paper the day before, by human fingerprints (control Test). Development of paper gave prints of good quality. Fingerprint was photographed with green light (orange goggles) and macro camera lens (Nikon D3300).
UXDV6H	DFO	The half sheet of blue colored copy paper was processed with DFO, baked at 100C for 20 minutes and viewed with a forensic laser.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
UYMXVM	1,2-Indanedione	10 minutes, 95-100 degrees celcius.
	Ninhydrin	2 minutes, 80 degrees celcius, 62% RH.
	Physical Developer (PD)	
VBCBFC	1,2-Indanedione	20 mins in fingerprint development chamber (oven temp maintaining 100 degrees C for a minimum of 10 mins)
VUBCHA	Visual Examination	
	Alternate Light Source	Examined with a 350-380 nm and 445-510 nm alternate light source
	Laser Examination	Examined with a 532 nm laser
	1,2-Indanedione-Zinc Chloride	Evidence placed in a humidity chamber set to 70 degrees Celsius and 65% relative humidity for approximately 20 minutes. Examined with 532 nm laser
W3AUM	Visual Examination	
	Ninhydrin	Ninhydrin aerosol spray.
VWAL7	Visual Examination	
	Alternate Light Source	
	1,2-Indanedione	
	Physical Developer (PD)	
W64ZA3	Visual Examination	Visual examinations were performed prior to latent print processing and then after each subsequent processing step.
	Ninhydrin	Ninhydrin mixed in-house.
W8C47Z	Visual Examination	The items was visually examined using a white LED light source under magnification.
	Alternate Light Source	The item was examined for the presence of inherent luminescence using Crime Lite ML (460nm-510nm: Orange Filter) under magnification.
	Ninhydrin	The item was processed by immersing in a tray of Ninhydrin solution for approximately 5 seconds, the item was dried in a fume hood and placed inside a Caron chamber for accelerated development. The conditions of the Caron chamber were set for 60 degrees Celsius and 60% relative humidity. The item was checked for accelerated development at approximately 30 minutes. (No Prints were observed) The item was left in the Caron Chamber for an additional 30 minutes.
	Physical Developer (PD)	PD processing was completed by Latent Print Technician on June 22, 2022. The batch was completed under batch number 502.
WAJRZW	Visual Examination	5 minutes, nothing observed
	Alternate Light Source	5 minutes, nothing observed
	DFO	20 minutes, latent observed under FLS, photographed
	Ninhydrin	20 minutes, latent observed, photographed

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
WDG9EB	Visual Examination	
	Alternate Light Source	UV and Crimescope
	DFO	Applied DFO using a spray nozzle. Placed in heat chamber at 200 degrees Fahrenheit for approximately 15 minutes. Examined for development with Crime Scope at wavelengths of 475nm to 535nm
	Ninhydrin	Sprayed with Ninhydrin and allowed 5 minutes drying time. Placed in plastic bag and allowed to sit overnight
	Powder Dusting	Black Magnetic Powder
WDX3FK	Ninhydrin	(methanol) Used dip method, dried evidence, placed in humidity chamber for 20 minutes at 80 degrees Celsius/65% humidity.
	Powder Dusting	Black magnetic powder - Used brush method with wand and powder.
WKZE8C	Visual Examination	White light, blue light and yellow visualisation filter, green light and orange/red visualisation filter. No prints visible in any section.
	1,2-Indanedione	Temperature: 100C. Development time: 10 minutes. Print visible in section B (using green light and orange/red visualisation filter).
	Ninhydrin	Temperature: 80C. Humidity: 62%RH. Development time: 2 minutes. Faint print visible in section B (using white light).
WLQPWJ	Ninhydrin	Visual examination: During visual examination we could not detect visible fingerprints or anything special. The paper was porous and evenly light blue. We decided to use the Ninhydrin -method. Ninhydrin -treatment: Test prints ok. On section B, after the treatment, a rather faintly visible comparable print was detected. The print was photographed straight from the item.
WLTE32	Visual Examination	
	Ninhydrin	Ready-to-use Ninhydrin (BVDA); temperature: 65 Celsius, humidity: 75%, time: 30 minutes.
WLU3NL	Visual Examination	No latent evidence observed.
	1,2-Indanedione	Entire piece of paper soaked and let to dry. Dry heat then applied. Limited latent evidence visible. Evidence then viewed under a laser.
WPUDJL	Visual Examination	
	1,2-Indanedione	Indanedione sprayed on all quadrants. Faint print appeared in quadrant B.
	Alternate Light Source	Print viewed under laser. Photographed with scale.
WQ4FAQ	Visual Examination	
	Ninhydrin	
	Humidity chamber	
	Visual Examination	
WU69H4	Visual Examination	Visual Examination, 10 minutes.
	Ninhydrin	Ninhydrin with hexane, 30 minutes.
	Visual Examination	Visual Examination after Ninhydrin processing (45 minutes) to check development at processing, after 24 hours, after 48 hours, and after 72 hours.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
WVG44V	Ninhydrin	standard
WWEE2J	Visual Examination 1,2-Indanedione Ninhydrin	White, blue, green light 10 minutes processing time 2 minutes processing time
WWTXQN	Visual Examination Alternate Light Source Iodine Fuming DFO Alternate Light Source Ninhydrin	
XBUMN9	Ninhydrin	Item was soaked in ninhydrin, allowed to dry and then treated with steam.
XTQCFW	Visual Examination Ninhydrin Physical Developer (PD)	On 06/06/2022 I visually examined item 3 under a white light with magnification using an LED light source. No visual prints were observed. On 06/07/2022, I submerged item 3 in Ninhydrin (BATCH: 306) and then allowed to air dry. I then placed the item into the CARON humidifying chamber. I placed item 3 under a white light with magnification using an LED light source. No prints were observed. On 06/22/2022, PD (BATCH: 502) was completed by LPT. I placed item 3 under a white light with magnification using an LED light source. No prints were observed.
XU3Y4C	Ninhydrin	
XVFLMC	Alternate Light Source FSIS 1,2-Indanedione	Oblique Light FSIS using UV Light at 254nm and UV filter at 254nm Indanedione with ZnCl in petroleum ether. Let sit 24 hours. Viewed with a green laser at 532nm and an orange filter.
XYEVXE	Visual Examination Alternate Light Source 1,2-Indanedione Ninhydrin	No RD noted Utilized Mini-Crimescope through all wavelengths to visualize any inherent luminescence. No RD noted. RD noted in quadrant B. See below for preservation method. No additional RD noted
Y2DQW8	Ninhydrin Visual Examination	With Steam
Y8MZYA	Visual Examination 1,2-Indanedione Ninhydrin	Indanedione Zinc Chloride solution, heat press, viewed with ALS (Crimescope) 515nm, orange goggles Ninhydrin HFE7100 solution, steam iron

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
YBKLL7	Visual Examination	
	Cyanoacrylate Fuming	Humidity 80%, processing time 30 min.
	Powder Dusting	Black powder (non magnetic)
YEN4CM	Visual Examination	
	Ninhydrin	
YFHP8Y	Visual Examination	On 06/09/2022 I performed a visual examination under white light and magnification (LED).
	Ninhydrin	On 06/09/2022 I submerged item 3 into Ninhydrin (Batch#: 306) and then let it air dry in a fume hood. Once completely dry I placed item 3 into the CARON chamber once it reached 60°C and 60% relative humidity. I let item 3 process in the CARON chamber for 30 minutes, I then checked on item 3 and saw that there wasn't much development so I left item 3 in the CARON chamber for another 30 minutes. After being in the chamber for 60 minutes, I retrieved item 3 from the CARON chamber and examined it under white light and magnification (LED). Faint ridge detail was observed in section B, so I stopped to preserve the latent print through scanning.
	Physical Developer (PD)	On 06/22/2022, item 3 was processed with Physical Developer (Batch#: 502) by Latent Print Technician. Once returned, I examined item 3 under white light and magnification (LED).
YGBMDK	Visual Examination	Item visually examined and photographed
	Cyanoacrylate Fuming	20 minutes @ 40% humidity
	Powder Dusting	Black magnetic powder
	Dye Stain	MBD dye stain
	Visual Examination	Item viewed under ALS
YH6M44	Visual Examination	White light different angles.
	1,2-Indanedione	Nincha M31. Temperature 65°C, humidity 65%, processing time: 30 min.
	Alternate Light Source	Crime Lite 42S (Blue 420-470 nm, Green 480-560 nm) and red filter.
YJFHU3	Visual Examination	Includes use of ALS/FLS
	Ninhydrin	Used in the humidity chamber after application
YJG86Q	Visual Examination	No FRD
	1,2-Indanedione	Heat Development w/Steam Iron, Laser 532nm, OCB Filter (impression documented)

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
YQXL4Q	Visual Examination	Used ambient lighting.
	DFO	The item was saturated with DFO by dipping it into the working solution. Once removed, the item was allowed to dry in a fume hood at room temperature before placing it into an oven set for 100 degrees Celsius for 20 minutes.
	Alternate Light Source	Examined item with a Rofin Polilight PL500 at 505nm with orange goggles.
	Ninhydrin	The item was saturated with Ninhydrin working solution by use of a squirt/wash bottle. The item was allowed to dry in a fume hood at room temperature before being subjected to steam and heat from an iron. The item was then stored in a dark and secure location for at least 24 hours before an examination was performed.
	Visual Examination	Examined item using ambient lighting and Crime-Lite2 (white).
	Physical Developer (PD)	The item was immersed in the following sequential "baths"/washes for a specific time as described below: -Deionized water for 10 minutes. -Maleic acid for 10 minutes. -Physical Developer working solution for 10 minutes, continuously agitated with a bench rocker. -Deionized water for 10 minutes. -Air dried prior to examination.
	Visual Examination	Examined item using ambient lighting.
	Alternate Light Source	Examined item with a Rofin Polilight PL500 with UV and yellow goggles.
YT8NX2	Ninhydrin	
YUZL79	Visual Examination	White light
	Alternate Light Source	UV: 368 nm; Blue-green: 445-510nm
	Laser	[wavelength]: 532nm
	1,2-Indanedione	65°C, 70% RH, time >= 25min; [wavelength]: 532nm, 445-510nm
YVCEZB	Ninhydrin	Nin positive control tested + Lot#11192021JRL Exp 11/22, Lot#06062022JRL Exp 06/23. Item was treated with the Ninhydrin chemical. Once item was completely air dried, item was then treated with stream using an "up & down" motion. Item was treated with stream for approximately 45 seconds - 1 minute
YWPXYL	Visual Examination	No latent print impressions observed.
	1,2-Indanedione	1,2-Indanedione utilized, no latent print impressions observed. 80° heat applied for three minutes, no latent print impressions observed.
	Alternate Light Source	Coherent Tracer LASER utilized, 532nm. Latent print impression observed and photographed.
Z7D2R8	Visual Examination	I visually examined the paper.
	Ninhydrin	Inside a chemical chamber, the paper was quickly dipped in a ninhydrin bath, then hung to dry. When dry the paper was steamed with an iron.
ZELVMZ	Ninhydrin	processed using liquid ninhydrin. item humidified for 9 minutes.
ZEZ93W	Visual Examination	Observe the piece of half sheet colored copy paper and could not find the finger print.
	Ninhydrin	Use a Ninhydrin aerosol spray and let the piece in a room temperature, after few minutes the finger print was very light.

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
ZFDTU7	Visual Examination	~10 mins
	Alternate Light Source	~10 mins (350-380nm and 445-510nm)
	Laser	~5 mins (532nm)
	IND-ZnCl	~35 mins (532nm)
ZG36MK	Visual Examination	
	Ninhydrin	Ninhydrin Pet Ether followed by steam heat
	Ninhydrin	additional application of Ninhydrin Pet Ether followed by steam heat
ZH36P7	Visual Examination	different light sources and filters
	DFO	spray, temp. 90 C, time 10 min, 505-530 light, orange filters
	Ninhydrin	spray, temp. 80 C, time 7 min, humidity 65%, natural and white light, (Chamber Nincha S31)
ZHXR4	Visual Examination	Visual inspection with Foster & Freeman crime-Lite 42S UV (350 – 380 nm), violet and of course clear and visible light- no trace
	1,2-Indanedione	NinCHA M31, 65 degrees and humidity 65 degrees, duration of effect: 30 min. we examined the sample after that with light sources at a wavelength, i.e. mainly green with 480 - 560 nm.
ZNQPV8	Visual Examination	Visual examination with ambient/oblique lighting.
	Alternate Light Source	Visual examination Forensic Light source with various wavelengths & barrier filters.
	Ninhydrin	Sprayed with Ninhydrin and placed in Caron Development chamber. Chamber set at 80 degrees Celsius at 65% humidity for 5 minutes.
	Visual Examination	Visual examination with ambient lighting.
	Ninhydrin	Re-Sprayed with Ninhydrin and placed in Caron Development chamber. Chamber set at 80 degrees Celsius at 65% humidity for 5 minutes.
	Visual Examination	Visual examination with ambient lighting and a FLS (505nm) wavelength & orange barrier filters. Latent photographed with ambient lighting.
ZQBPYU	Visual Examination	
	FSIS	Full Spectrum Imaging System
	Ninhydrin	batch # 306
	Physical Developer (PD)	batch # 502
ZR4M8Z	Visual Examination	Examined using natural light, flash light, UV, ALS, LASER, and SUV.
	DFO	with LASER excitation.
	Ninhydrin	
	Zinc Chloride	with ALS excitation.
	Physical Developer (PD)	

TABLE 2 - Item 3

WebCode	Development Methods	Method Details
ZWG9BZ	Visual Examination	white light, diferent angles
	Alternate Light Source	Foster&Freeman Lite ML2 (350-380nm, 395-425nm, 445-510nm, 480-560nm with required filters)
	DFO	CAST recepture - heating 20 minutes in 100 Celsius degree
	Ninhydrin	CAST recepture - heating 40 minutes in 80 Celsius degree, 62% RH
	Physical Developer (PD)	Sirchie

Item 3 - Development Response Summary	Participants: 302
Methods Utilized	

Alternate Light Source	96	Physical Developer	43
Cyanoacrylate Fuming	4	Powder Dusting	13
DFO	68	Visual Examination	228
Dye Stain	1	Wet Powder Suspension	0
Ninhydrin	246	1,2-Indanedione	80

****Note:** Methods listed are the preloaded options for selection via the CTS Portal and do not reflect all answers provided by participants.

Preservation Methods

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
229XB6	Photography	Photoshop
233UBY	Photography	Overall and close ups, standard lighting and under laser with an orange filter
237988	Photography	
24VJZL	[No Methods Reported.]	None requested
29PMKD	Lifting	
29QCRV	Photography	DCS5
2HZMDT	Lifting Photography	Standard Tape lift, placed on white lift card One photograph taken of Latent print marked L-1A
2KG724	Photography Lifting	Photographic fixation is made by using general shots, close-up with and without metric witness and close-up, using a macro and tripod lens. Conventional transparent tape is used and white cardboard as a support.
2KZ4HA	Photography	Image(s) saved onto CD disc.
2QPLX7	Photography	
2RJBXU	Lifting	First i photograph the fingerprint and then i lift the fingerprompt with a patch.
2TU9BB	Photography	Digital photography
3242WQ	Photography Lifting	I took a photograph of the print with a scale. I lifted the print with tape and placed it on a fingerprint card.
34QML8	None	
3AEBHY	None	
3AKBRE	Photography	Nikon, RAW format, uploaded/stored in Foray
3BD9YL	Photography	Photo taken with CSS and an orange filter
3ER789	Photography	Viewed w/ forensic laser
3KYFU6	Photography	Digital Imaging
3LU43R	Photography	VIS: . No prints CA: 1 image(s) taken with LP - Camera 10/Lens 2 on 6/15/2022 (Direct Incandescent/Flood). POW: . No prints RAY: 1 image(s) taken with LP - Camera 10/Lens 2 on 6/16/2022 (Direct Polilight 2 (450nm filter): Orange Filter).
3MM3BY	Photography	Photographed at visual, superglue fuming, and ardrox

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
3N2BJY	Photography	Obtained photographs while item was under UV lighting.
3RZMFY	Lifting	Lift recovered during magnetic powder application. Lift was performed using a clear adhesive tape and applied to a white fingerprint card.
3XAVQ2	Photography	Photographs taken after each chemical/physical processing step.
3YETTG	Photography Lifting	Photographed with inch scale lifted powdered print with tape
3ZDTXN	Photography Lifting	
47XDFU	Photography	Visual Examination: Four (4) digital images taken with camera 11/lens 3 on June 28,2022 using direct LED lighting. See image metadata for settings. Cyanoacrylate Fuming: Six (6) digital images taken with camera 11/lens 3 on July 12,2022 using direct and transmitted fiber optic lighting. See image metadata for settings. RAY: Three (3) digital images taken with camera 11/lens 3 on July 19,2022 using Rofin Polilight Flare Plus 2 (450nm) with an orange filter. See image metadata for settings. Magnetic Powder: Two (2) digital images taken with camera 11/lens 3 on July 19,2022 using transmitted fluorescent lighting. See image metadata for settings.
4CHH33	Photography	
4EQL2K	Photography	Photographed with and without labeled (1C) adhesive scale, using blue (450 nm) ALS with orange lens filter.
4NTTUY	Photography	Through photography I documented the finger print.
68PPVU	Lifting	Latent print tape was used to collect the processed print and secure it on a latent print lift card.
69YJQT	Photography	Digital photography
6AAKB8	Photography	Nikon D750, Nikkor Macro 60mm
6FGUX3	Photography	Viewed using a Laser at approximately 500 nm to illuminate
6GA3PJ	Photography	For actual casework, the latent impression would have been photographed for enhancement and examination.
6NL9DA	Lifting	
6PMYNX	Adhesive Tape	The fingerprint was preserved with adhesive tape and photo documented.
6QWYQK	Photography	
6ZMHAY	Photography	To preserve/document the latent print that was developed, photographs were taken after the visual step, alternate light source step and dye stain step. An overall post-analysis overall photograph was also taken to document the location of the latent print.

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
783GLP	Photography	VIS: 2 image(s) taken with LP - Camera 10/Lens 2 on 7/19/2022 (Direct LED). CA: 1 image(s) taken with LP - Camera 10/Lens 2 on 7/20/2022 (Direct LED). POW: 1 image(s) taken with LP - Camera 10/Lens 2 on 7/22/2022 (Direct LED). RAY: 1 image(s) taken with LP - Camera 10/Lens 2 on 7/25/2022 (Direct Polilight 2 (450nm filter): Orange Filter). Five images
7BFCU8	Photography	A photograph of the fingerprint was conducted : – before superglue fuming (DCS 4 system) white lightning – after superglue fuming (DCS 4 system) daylight lighting
7DQ6Y8	Photography	Digital photography
7QCPBN	Photography	1:1 photograph take with and without calibrated measuring device.
7QGUYD	Lifting	Print developed on area "C" and lift card was prepared.
7R6DW6	Photography	FS-15-RUVIS Photographs
7TFH89	Lifting	Tape lift
7XFJFH	Photography	
7Y7RFK	Photography	
88A9JW	Photography	Canon EOS 5D MkII, 100mm, Crime Lite 42S, GG495 (420-470nm) with right filter (orange).
88FCK3	Lifting	Once a print is observed to have ridge detail, tape is laid onto the print and lifted in one direction and placed on a card in the same direction as lifted to decrease air bubbles. The pertinent information is then written on the latent lift card.
88WLFN	Photography	Z7, see meta data
8AHJFZ	Photography Lifting	Using DCS5 system Clear lifting tape
8U9TH2	Photography	The fingerprint in section C was photographed after dye stain.
928CHB	Photography	After processing the print was photo lifted using the full spectrum imaging system (FSIS) with lamp and filter at 365nm wavelength.
96MZ39	Photography	oblique lighting for latent prints developed with CA and Forensic Blue Light 450nm for latent prints developed with MRM-10 dye stain
9EPAEY	Photography	
9EUL3V	Lifting	N/A

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
9J8DHN	Photography	Photography was used after CA to preserve the print image. The direct lighting method was used to with fiber optic lighting. I took 2 photographs.
	Photography	Photography was used after RAY to preserve the print image. The direct lighting method was used with the polilight and an orange filter over the lens. I took 1 photograph.
9KUBFT	none	
9KXN8W	Photography	
9KZBNA	Photography	Digital Photography - Tungsten and Fluorescent Lighting
9M7Y4Z	Photography	
9TX2DQ	Lifting	Latent Print Lifted Using Latent Print Tape And Placed On Latent Print Card And Packaged.
9U29EW	Photography	Visualized with TracER Laser (532 nm) and photographed with an orange filter at F22 ISO 100 Raw format
9VHXT6	Photography	
9VKM39	Photography	Used Nikon camera, used scale in photograph, uploaded to Foray
9WTTJ3	Photography	Nikon D850 with a 60mm lens
ABQ7BJ	Photography	the latent print was documented using a digital camera and with the forensic light source.
	Lifting	Attempted to lift the print however, nothing was obtained.
ABRWL9	Photography	Visual - 3 photos. CA - 2 photos
AQLLJQ	Lifting	One latent lift obtained
ARXHNV	Photography	
AT8GQQ	Photography	lit from beneath
ATR9UA	Lifting	One latent lift cards was prepared.
AVC3M4	Photography	Canon EOS 800D, Canon Macro Lens EF-S 60mm, yellow and orange viewing filter (after BY40)
AVETV8	Photography	Nikon camera, scale in photograph, RAW format, uploaded into Foray for storage

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
AZAHGK	Photography	Visual prints were photographed using a "Nikon Z7" camera mounted to a stand. Direct, LED lighting was used to visualize.
	Photography	Cyanoacrylate prints were photographed using a "Nikon Z7" camera mounted to a stand. Direct, LED lighting was used to visualize.
	Photography	RAY (Alternate Light Source) prints were photographed using a "Nikon Z7" camera mounted to a stand. An orange filter lens was used on the camera. Direct, 450nm light from a "Polilight FLARE 2" was used to visualize.
B79B4K	Photography	The impression was photographed for documentation and preservation,
	Lifting	Use lifting patches for preservation.
BT46XT	Photography	After observing ridge detail following MBD using the ALS, I photographed the ridge detail using a blue light source and yellow/orange filter, along with a measuring device and within a dark room. A piece of glass was used to flatten the item for photography. The photograph included the appropriate case information.
	Lifting	After powder processing the item, I observed faint ridge detail. I lifted this area using 2 inch tape and a white latent print lift card. The back of the lift card was filled out with the appropriate information.
BUYVWU	Photography	
BVTJDQ	Photography	DCS-5
	Lifting	TAPE
BWKTCX	Lifting	Once enough powder was applied to show sufficient print detail, latent print tape was used to lift the print. This tape was placed on a white latent print card for preservation. Case information and location description were written on the back of the card.
BX4ATL	Photography	VIS: oblique/side technique with LED lighting- 1 image. CA: oblique/side technique with LED lighting-2 images. RAY: direct technique with Polilight 2 (450nm) with orange filter- 1 image. POW: no enhancement.
C6EX6Y	Photography	
CD4RUG	Photography	I took photo of the fingerprint after cyanoacrylate fuming, and a better photo was taken after the Basic Yellow 40 with 450 nm light source and yellow filter.
CEHCMR	Lifting	Black magnetic powder was applied to the plastic sheet and lifting tape was applied over the area a finger print was identified. The print was lifted and transferred to a lift card.
CEHE8P	Photography	Photography after R6G using Crimescope CS-16-500 at 515nm Promaster YA2 and Tiffen Orange 21 filters stacked.
CK8PNF	Photography	
CNRL8Y	Photography	Photos of 1 and 2
CQDL8E	Photography	

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
CWLR4L	Photography	digital camera
CZXR4J	Photography	One image was taken with Crime Scene Unit (CSU) camera 11/Lens 10 on 7/4/22 (Direct Polilight (450nm filter): Orange Filter).
D36EBV	Photography	Ridge detail was photographed using a Nikon D850 camera with white light after CA fuming and an orange filter using ALS 505 wavelength after rhodamine processing.
	Lifting	No ridge detail was observed or lifted.
D4FA2U	Photography	After cyanoacrylate fuming: photos taken under white light After R6G: photos taken at 532nm with orange barrier and A-FF-1 filters
D8UWML	Photography	The latent print was photographed whit metric witnesses using a digital camera Nikon D7500 to preserve it.
	Lifting	The latent print was lifted using a white plastic patch with metric witnesses.
D9R8KA	Photography	
DEXTGK	Photography	Six photographs were taken on Camera11/Lens3. Two photographs were taken after a visual examination and one photograph was taken after the completion of cyanoacrylate fuming, in which diffused LED lighting was used. One photograph was taken after dye stain using a Polilight 2 with an orange filter. Two photographs were taken after the item was dusted with powder using diffused LED lighting.
DG673R	Lifting	Lift tape applied to latent fingerprint and then lift tape applied to fingerprint lift card.
	Photography	Photograph take of latent fingerprint on fingerprint card prior to removing the latent fingerprint lift from its recovery location. Camera set at landscape and ISO 400.
DHYULN	Photography	oblique lighting, photographed on raw and fine
DJRTUU	Photography	
DN4VKW	Lifting	Developed fingerprint was lifted using fingerprint tape, the tape was then applied to a latent fingerprint card. All required information was included on the back of the card. Fingerprint card packaged, entered into the Digital Traq system, and transferred to the appropriate location.
DQCVWQ	Photography	Coaxial light, DCS5 F&F system
DVHT2N	Photography	I documented the fingerprint with photos before, during and after the lifting of the fingerprint.
	Lifting	I used a plastic adhesive patch for the lifting of the footprint.
E3YJ6V	Scanning	Scanned Print Section C. Downloaded to DVD
	Lifting	One (1) Tape lift from Section C
EAGUEP	Lifting	The latent print was photographed and then preserved using a hinged print lifter.

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
ELWM6K	Photography	Took a picture with Nikon D7500 camera.
ELWZBD	Photography Lifting	
EQ678J	Photography	Latent 1A-1 was photographed with LabKam and Crimescope when photographing with Crimescope, light was at 515 nm and an orange filter was placed on the camera lens overall photograph of evidence was also taken two photographs were taken of Latent 1A-1 with Crimescope and overall evidence because ridge structure on evidence was incorrectly marked as 1C-1 and photographed. When incorrect marking was noted, the marking was corrected to 1A-1 and photographed again
EVF4QZ	Photography	Photography of the mark after every step of examination
F4P3LM	Photography	A photograph of the developed print was captured using a Nikon D3500. In addition, a photograph of developed prints was captured using the Bright Beam Laser at a 445nm wavelength and a Nikon D3400 camera with a curved orange filter and a FF 1.0 Narrow Band Pass Filter.
F4QTWB	Photography	Photograph result with Nikon SLR
F6ZZY4	Photography	Macro photography
F8ULVG	Photography	Visual Examination: Two (2) digital images taken with camera 11/lens 3 on June 29, 2022. See image metadata for settings. (Section C) Cyanoacrylate Fuming: Two (2) digital images taken with camera 11/lens 3 on June 29, 2022. See image metadata for settings. (Section C) Dye Stain: One (1) digital image taken with camera 11/lens 3 on June 30, 2022 using Rofin Polilight FLARE Plus 2 (450nm filter) with ProMaster Orange YA2 camera filter. See image metadata for settings. (Section C)
FB97VB	Photography	
FBAW7Y	Lifting	Lifted the developed ridge detail from quadrant C with clear tape and placed the tape on a lift card.
FBPHDF	Photography	Photographed using Camera 11/Lens 3. Camera settings were verified prior to use. Visual and Cyanoacrylate photographs taken under direct fiber optic light. Powder photograph taken under transmitted fluorescent light. RAY photograph taken under direct Polilight 2 (450nm filter) light using an orange filter.
FBR6WE	Photography	2 total visual images were taken: 1 with direct reflection with flood lamp, camera 10; 1 direct reflection/diffused with dome lighting, camera 10. 1 CA image taken with camera 10/Lens 2 using an LED light and direct reflection. 1 POW image taken with camera 10/Lens 2 using transmitted lighting with the fluorescent light box. 1 Ray image taken on camera 10/Lens 2 using a Polilight 2 UV light and Direct Reflection
FCFPDJ	Photography Lifting	After having worked on the piece of evidence described above, the latent print was photographed documented using a digital camera Nikon D 7500 to preserve it. The latent print was lifting using a white plastic patch with metric witnesses.

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
FENQNH	Photography	After I took Item 1 out of the Cyanosafe and looked at it under LED lighting, I took 2 photos of it using direct fiber optic lighting.
	Photography	After I used dye staining on Item 1 and looked at it under the blue light with the orange filter on the CrimeLite ML, I took 1 photo of item using the orange lens on the camera and the Polilight 2.
FENQUJ	Scanning	
FJHQZR	Lifting	
	Photography	
FJRRJ6	Photography	Oblique Lighting, Cyanoacrylate Fuming, Rhodamine 6G Dye Stain. 6 friction ridge images obtained.
	Lifting	Black Powder. 1 latent lift card obtained.
FKUA2N	Scanning	
FM76MG	Photography	Possible ridge detail was visualized after CA. Item was photographed using direct LED light. Possible ridge detail was visualized after RAY dye. Item was photographed using direct light from a PoliLight2 with an orange filter.
FNWCLJ	Photography	Used Nikon D7500 camera.
FPNDLF	Photography	
GA4HJP	Photography	
GFF29J	Photography	The finger was photographed for preservation
GJ3QG3	Photography	
GKCVUQ	Photography	Digital; Nikon D810 SLR
GKWCCE	Photography	CA - 1 image, FSIS, UV light RAY - 1 image, 450nm polilight 2 with orange filter
GLNKAW	Photography	
GMZAGF	Photography	Photographed with a scale containing case number, date, item number, processed used, and initials.
GNQK89	Photography	With the use of a camera Nikon D7500 and a metric scale, the finger print was photographed.
GPHHFF	Photography	Ligth sources (F&F Crime Ligth 82S 350-380), with and without UV-filter. Canon EOS 5D + 100mm macro
GUCF7R	Lifting	Black powder
GV6DEX	Photography	Photographed using ALS at 445 nm with an orange filter.

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
GZHCQR	Photography	Photographed after CAE, and again after R6G with orange filter and green FF1 filter
H34BNL	Photography	Technical photography, photoshop, images saved as RAW and TIF
H82MUK	Photography	
H82PBC	Photography	after fuming in a tank with cyanoacrylate a print was observed and photographed with a scale, then dusted with silk black fingerprint powder then photographed again with a scale.
H84CUB	Photography	Lab camera
HEK38P	Photography Lifting	
HJRLCA	Photography Lifting	Photographed the print under regular white light after CA fuming and under a green forensic light source after dye stain. Placed onto white latent lift card.
HNPZ47	Lifting	Lifted the developed ridge detail from section C with lifting tape and placed the tape on a lift card.
HPJNKF	Photography	Photographed using Camera 11/Lens 3. Visual and Cyanoacrylate photographs taken under bounced and tented LED light. Powder photograph taken under bounced LED light. RAY photograph taken under direct fluorescent light with an orange filter.
HQBMWT	Photography	Digital Capture.
HTY8CX	Lifting	fotografía y levantamiento (it was documented with photography and lifted)
HV8D36	Photography	Nikon D810 Latent visible under ambient light / played with direct reflective and transmitted light for fun
HWJ383	Lifting	Ridge detail was lifted using fingerprint lifting tape. This lift was placed onto a fingerprint lift card.
HY8L6U	CA Vacuum Fuming	Fuming with CA Ester in vacuum chamber. Dyed with Basic Yellow Solution. Viewed with forensic laser.
HY9CFH	Photography Lifting	I took four digital photographs of latent impressions at the following stages: 1) Visual examination 2) Superglue 3) Ardrex/UV 4) Rhodamine 6G/Laser with Wratten #21 orange filter I lifted one latent impression in Quadrant C of the piece of plastic and taped it on a latent lift card.
HZJE43	Photography Lifting	Two photographs taken of the developed latent. One with UV light, and second with back lighting on light table. Tape lift.
J7KVCM	Photography	ADAMS - Authenticated Digital Asset Management System, Photoshop

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
J8WU6B	Photography Lifting	
J9U3DU	Photography	Digital photography
JVZQUP	Photography	1. After Dye Stain, Mark photographed after Dying using 445nm light with 495nm Filter
K7K8DN	Lifting	6/15/2022 Lifting tape and white backing card
KDVHFN	Photography	
KERUEW	Lifting	
KJ4X8K	Photography	Digital Photography - uploaded to ADAMS for safekeeping
KKZKFH	Photography Lifting	Using Photo document the fingerprint before, during and after lifting it. I used a plastic patch for footprint lifting.
KRZWH7	Photography Lifting	DIGITAL PHOTOGRAPHY ADHESIVE TAPE LIFT AFTER BLACK POWDER DUSTING
KUN7UT	Photography	Digital photography
KWCU2L	Photography	Capture and image processing completed with Foster+Freeman DCS5 imaging system under UV light (crime lite (350-380nm)/ Baader U-Filter2 (CWL350 nm)
KXNF3A	Photography	It was photographed with a Nikon Z7 camera. The cyanoacrylate photograph was taken using direct fluorescent lighting. The powder photograph was taken using transmitted lighting. The dye stain photograph was taken using direct polilight lighting.
KXQZUJ	Photography	Photographed the impression using yellow filter and the alternate light source
LFX2TA	Photography Lifting	The fingerprint was photographed for preservation. A white plastic patch was used for the lifting and preservation of the fingerprint.
LRH4JG	Photography Lifting	digital camera, FSIS lift tape, lift card
LRVRMU	Photography	The ridge detail found during my visual examination of item-1 was photographed prior to chemical processing. Additional photographs were taken of this detail after the Cyanoacrylate process, as well as after the application of MRM10. All photographs of ridge detail were taken with a Canon 5D Mark III camera utilizing a Canon Ultrasonic 100mm macro-lens. All photographs were taken in RAW format with a surface to sensor distance no greater than 0.49 meters. Photographs taken after the application of MRM10 utilized a Heliopan orange 22 filter and a light source delivering a wavelength of 450nm.

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
LTB2RN	Photography	Photographs were completed using a Nikon D850 camera after the visual exam (using white and coaxial lights), Cyanoacrylate Fuming (using coaxial light), and Rhodamine (using orange filter and 505 nm light). Placard with case information is photographed prior to evidence photographs; evidence photographs include a scale.
	Lifting	After processing with bichromatic powder, fingerprint tape was used to collect the developed print and it was placed onto a latent lift card; latent lift card includes case information and a diagram of lift location
LUZE8L	Photography	
LYCBXG	Photography	One latent print (1-LP1) photographed after cyanoacrylate fuming with LED lighting. 1-LP1 also photographed after dye staining with green laser and an orange filter. An overall image of Item 1 captured at the end of processing with LED lighting.
M47KPU	Photography	1 Photo taken at vis
	Photography	1 Photo taken at CA
	Photography	1 Photo taken at BY40
MFHRNF	Photography	I photographed the latent impression after Cyanoacrylate ester fuming. Additionally I photographed the latent impression after processing with Ardrex using a UV lamp. I also photographed the latent impression after processing with Rhodamine using a LASER and orange filter.
MG93CM	Photography	TM "1.1" in C section. White light is used (400-700nm) to photograph the developed latent print (partial as well as detail.)
MH6DCW	Photography	See above for photography [In Table 2: Development Methods, participant stated number of photos taken]. FSIS with 254nm. LASER with 532nm A-AF-1 filter. Nikon D800 used on copy stand.
ML8A4C	Photography	Nikon d810
MRU3C6	Photography	one latent print image was obtained from Section C on Item #1 after applying Rhodamine 6G Dye Stain and viewing under a Forensic Light Source
	Lifting	one latent print lift card was obtained from Section C on Item #1 after processing with black powder
MUE8QU	Photography	
MVPZDG	Photography	Photographic fixation is made by using general shots, close-up with and without metric witness and close-up, using a macro and tripod lens.
	Lifting	Conventional transparent tape is used and white cardboard as a support.
MW3EN	Photography	Prints were photographed under 532nm light via forensic laser and orange filter.
MXZTHH	Photography	Nikon camera/software. Upload photos to ADAMS. Photoshop through ADAMS
MYQ2LR	Lifting	The visible ridge detail present in Quadrant C was recovered using a tape lift. The latent lift card was submitted to the Latent Print Unit.

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
MZZ9MY	Photography	
N2VWXG	Photography	Any suitable marks developed throughout sequential treatment were marked up and photographed 1:1 using a D810 Nikon digital camera with an AF-5 micro nikkor 105mm lens, 8x4 Crime Lite light source(s) and appropriate camera filter(s). The camera is linked to DCS5 (Digital Capture System 5) software where the images are exhibited with full audit trails and further DCS5 enhancement tools can be used to improve contrast/remove background interference where applicable. Exhibited images then submitted to the Fingerprint Bureau for further analysis and comparison.
NCCQ39	Photography	For visual examination, I used direct fiber optic lighting to photograph possible ridge detail on item 1 using a Nikon Z7 camera.
	Photography	For cyanoacrylate fuming, I used direct fiber optic lighting to photograph possible ridge detail on item 1 using a Nikon Z7 camera.
	Photography	For RAY fluorescent dye staining, I used direct lighting using a Polilight 2 blue light with an orange filter on the camera lens. I photographed possible ridge detail on item 1 using a Nikon Z7 camera.
	Photography	For powder, I used direct incandescent/flood lighting to photograph possible ridge detail on item 1 using a Nikon Z7 camera.
NEKY8M	Photography	Could not visualize a print after initial visual exam, photographed after lumicyano fuming (with ALS, and orange filter)
	Photography	Photographed after Rhodamine 6G with ALS and orange filter
	Photography	Photographed after magnetic black powder
	Lifting	Lifted impression with black gelatin lift
	Photography	Photographed impression on gelatin lift
NEMNE6	Photography	
NG3BXC	Photography	Digital capture (DCS 5) after visual examination in the white light. Digital capture (Nikon D300) after cyanoacrylate fuming in the white light and after dye stain at 450 nm (Polilight PL500) with filter OG550.
NHYJ7V	Photography	The method used to preserve the evidence: Photography Nikon D 850 camera. Quality of Image: Tiff.
NQEFWN	Photography	Photographs were taken of RD after powder and R6G.
NY8NHE	Photography	Photographs taken after superglue, powder, and rhodamine steps. Mini-Crimescope White Light was used for superglue and powder photographs. Dual 77 Laser 520 nm was used for rhodamine photograph.
P33NBG	Photography	The fingerprint was photographed at every step of a research.
P3H67A	Photography	Digitally photographed under 450nm ALS.
PE2FZU	Lifting	

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
PEVAD6	Photography Lifting	photography with scale
PG4DBM	Photography	Digital Camera
PGLBG8	Photography	Used Nikon camera.
PHY3BA	Photography	Imprint photographed using Canon camera approx 2 hours
PK79WB	Photography	Raw and Fine
PLWKPP	Photography Lifting	I photographed the print with a digital camera using a metric scale. I lifted the print with lift tape and placed it on a backing card after photography.
PREY6F	Photography	DCS5 System
PVHMQX	Photography	
Q3ZH67	white plastic patch	A white plastic patch was used to lift the impression and preserved
Q4U4YX	Photography	Lens Nikon AF Micro Nikkor 60 mm, light appropriate to the method used - withe, blue light.
Q9KGXZ	Photography	Used Nikon camera.
QADE77	Photography	
QC3QV4	Photography	VIS - LED, direct lighting. CA - LED, direct lighting. POW - Incandescent, transmitted lighting. RAY - Polilight 2, direct lighting
QEQCGZ	Adhesive tape	The fingerprint was preserved with adhesive tape and photo.
QFNKMY	Photography	
QM9GVU	Photography Lifting	Photographed latent print to scale Black powder
QQ8RQU	Photography Lifting	Photographed latent print observed on quadrant C of Lab Item 1. Applied lifting techniques to obtain latent prints on black powered areas on Lab Item 1.
QX8CQ4	Photography	Blue Light 430-470nm Yellow Filter 476 nm
R4RPA4	Photography	Photographed using camera 11/lens 3. Visual and Cyanoacrylate photographs were taken under direct fiber optic light. Ray photographs were taken under direct 450 nm light, with an orange filter. Powder photographs taken under direct fiber optic light.
R6FAUD	Photography	white light without filter for direct illumination / UV light whit orange (16) filter after lumicyano

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
R8AXCA	Photography	
RAU26Z	Photography Lifting	
RBQC6A	Photography Lifting	Black Gel Lift post CAE
RDFMXN	Photography	Captured images with a Canon EOS Rebel T6i camera
RE9L7U	Photography Digital adjustments	Digital camera Nikon D750, Nikkor 105 mm. Yellow filter. Blue light, 420-470 nm Processed in Adobe Photoshop CS
REPM2A	Photography	
RGEYUN	Photography	
RKCM9A	Lifting	Print was recovered after dusting. Print lifted and preserved on index card.
RKFZZC	Photography	Item 1 (Quad C)
RNUML4	Lifting	I used a adhesive tape to save it. The latent print was photographed.
RUK2BB	Lifting	Once the piece of evidence is properly exposed and documented it is lifted with a piece of plastic patch. to maintain the integrity of the latent print.
T2DVG9	None	
TA9QLX	Photography Lifting	Digital Camera 2 inch lifting tape
TARBUC	Scanning	
TAUZ2U	Photography	Photographed with lighting and scale Assigned image Item 1-1
TH6JXY	Photography Lifting	
TXZY76	Scanning	Epson scan software; Epson Perfection V800 at 1200dpi with black background; saved as TIF.
TZKVQP	Photography	1 photo after CA fuming. 1 photo after Blk Powder.
U6V4RT	Photography	Would have used photography if evidence had been part of real casework.
U9TUQD	Photography	Digitally captured using a Nikon D810 with a 105mm lens. Also use FSIS-Color to capture ridge detail.
UEGALC	Photography	

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
UNPXX4	Lifting	Latent lift tape was used to lift latent lift off of the section and placed onto a latent lift card.
UPX4RD	Photography	digital photograhay with measure tape
UR3TV8	Photography	
UR4J7W	Lifting	After developing the fingerprint with powder dusting, it was preserved with a photo and plastic patch.
UR87J4	Photography Lifting	I took a photo of the impression and preserved this by photo. A white plastic patch was used to lift the impression and preserved.
UT2RCU	Photography	The fingerprint was photographed at every stage of research after disclosure.
UT4GJD	Photography	Photographed using a macro lens-orange filter, F/8, 1/8sec.
UUBYFM	Photography	Macro camera lens (Nikon D 3300).The photo of the latent print is archived in the AFIS database of fingerprints. The photo of the latent print is archived in the AFIS database of fingerprints.
UXDV6H	Photography	Latent print was clearly visible and photographed without a forensic laser.
UYMXVM	Photography	Cyanoacrylate Fuming Basic yellow 40
VBCBFC	Photography	
VUBCHA	Photography	
W3AUM	Photography	Fluorescent photography with orange barrier filter.
VWAL7	None	
W64ZA3	Photography	Photographed using a Nikon D800 with AF Micro Nikkor 60mm lens with orange lens filter.
W8C47Z	Photography	The item was photographed using a Nikon FTZ camera with a AF-S Micro Nikkor 105mm 1:28G ED Lens, mounted to an adjustable column. The resolution was adjusted greater than 1000 pixels per inch for comparison quality. The area was focused using a prepared template that show the maximum image area for the camera. A scale was used to document Case Number, Item Number, Process Used, Date of Photograph, and Initialed. Photographs were subsequently uploaded to the [Laboratory] Latent Print Image Server.
WAJRZW	Photography Lifting	Photographed latents during visual exam and RAM dye stain. Attempted lift after black powder, nothing obtained
WDG9EB	Photography	Used digital camera to capture after Cyanoacrylate fuming, Dye stain and Black Powder
WDX3FK	Photography	Used Nikon camera, used scale in photograph and uploaded into Foray.

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
WKZE8C	Photography	Visual examination: UV light no filter UV reflection in C
	Photography	CNA: white light and polarisation filter on light source and camera
	Photography	BY40: blue light and yellow filter
WLU3NL	Photography	Scaled photos captured. CD created containing latent photos.
WPUDJL	Photography	Photographed with and without a scale
WQ4FAQ	Photography	
WU69H4	Photography	Photography of latent after cyanoacrylate fuming. No enhancement of latent with other processes.
WVG44V	Lifting	
WWEE2J	Photography	After BY40
WWTXQN	Photography	
	Lifting	Black powder - tape lift
XBUMN9	Lifting	Lift tape was applied to fingerprint lift card.
	Photography	Macro lens with the use of a scale, camera set to RAW and ISO 100.
XTQCFW	Photography	Photographed with a scale that includes date, case number, item number, process, and initials. VIS- No prints observed. CA- Prints observed: 5 image(s) taken with LP - Camera 10/Lens 2 on 6/6/2022 (Direct Fluorescent). RAY- Prints observed: 2 image(s) taken with CSU - Camera 11/Lens 3 on 6/7/2022 (Direct Polilight (450nm filter): Orange Filter). POW- Prints observed: 2 image(s) taken with CSU - Camera 11/Lens 3 on 6/7/2022 (Direct Fluorescent).
XU3Y4C	Photography	Camera A
XVFLMC	Photography	Oblique light photo
	Photography	Green laser with orange filter photo after Rhodamine in petroleum ether.
XYEVXE	Photography	Examination quality photo taken of RD developed in quadrant C.
Y2DQW8	Lifting	Lift tape applied to fingerprint lift card.
	Photography	Macro lens with the use of a scale. Camera set to RAW and ISO 100.
Y8MZYA	Photography	Nikon D7000, oblique lighting/visible lighting for superglue image, ALS (Crimescope) 515nm orange and FF1 filters for R6G image
YBKLL7	Photography	
YEN4CM	Lifting	

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
YFHP8Y	Photography	Photographed with a scale that included the case number, date, item number, process used, and my initials. Photography per process: VIS: 1 image taken with LP - Camera 10/Lens 2 on 6/9/2022 (Using the Direct lighting technique and LED light). CA: 1 image taken with LP - Camera 10/Lens 2 on 6/15/2022 (Using the Direct lighting technique and LED light). RAY: 1 image taken with LP - Camera 10/Lens 2 on 6/17/2022 (Using the Direct lighting technique and Polilight 2 (450nm filter) light with orange filter glasses). POW: 1 image taken with LP - Camera 10/Lens 2 on 6/20/2022 (Using the Transmitted lighting technique and LED light).
YGBMDK	Photography Lifting	Latent print photographed with DSLR camera using orange filter under ALS Latent print lifted using clear lifting tape on white latent lift card
YH6M44	Photography	Canon EOS 5D, Ultrasonic 100mm 1:2,8 DG Macro with orange filter and Crime Lite 42S (Blue 420-470 nm, Green 480-560 nm).
YJFHU3	Lifting	Tape was used for collection and placed on a fingerprint card.
YJG86Q	Photography Scanning	Hot Lighting Scanned as Transparency
YQXL4Q	Photography	The print was photographed with a DSLR camera after each of the following processing steps: initial visual examination, cyanoacrylate fuming, dye stain, and wet powder suspension. Specific information per each development step: -Initial visual: used "huffing" (expelled moist air from the mouth over the print surface) with a Crime-Lite2 (white) -Cyanoacrylate fuming: used a Crime-Lite2 (white) -Dye stain: used a Rofin Polilight PL500 with an orange filter on the camera lens -Wet powder suspension: used a Crime-Lite2 (white)
YT8NX2	Lifting	
YUZL79	Photography	ADAMS
YVCEZB	Powder Dusting Lifting	Processing time = approximately 3 minutes. Black magnetic powder was used to process item Latent was lifted using fingerprint tape, placed onto a latent lift card, and entered into the Traq System
YWPXYL	Photography	Images saved in JPG and RAW at 1000 dpi, and transferred to a DVD.
Z7D2R8	Photography Lifting	The evidence was photographed. The latent ridge detail was photographed in place where the fingerprint was recovered from the evidence. Latent ridge detail was photographed with a macro lens with a scale next to the print. When latent ridge detail was revealed, fingerprint lift tape was pressed onto the print then transferred to a fingerprint card. Marks were made on card referenced with a letter and an arrow and photographed for documenting.
ZELVMZ	[No Methods Reported.]	latent left on paper to be submitted to latent print unit for further analysis.

TABLE 3 - Item 1

WebCode	Preservation Methods	Method Details
ZEZ93W	Photography	Was photographed, use a Nikon D7500 camera and metric scale.
	Lifting	Lift the finger print with a white plastic patch and fill the information in the patch.
ZFDTU7	Photography	Camera (NIKON D810)
	FORAY ADAMS	Photoshop via FORAY ADAMS
ZG36MK	Photography	
ZH36P7	Photography	Photo Evidence Scale
ZHYRX4	Photography	Examined after vapor with Foster & Freeman crime-Lite 42S with blue (420 – 470 nm) and green (480 – 560 nm) light sources, using yellow and orange filters. The orange filter, which was used in the post-vapor photography, stood out more clearly on the green.
ZNQPV8	Photography	Photo with Nikon D7000 camera with macro lens and orange barrier filter post dye-stain.
ZQBPYU	Photography	Camera10/Len2, direct reflection for CA, Transmitted for POW, and Direct lighting with ALS and orange filter for RAY
ZR4M8Z	Photography	Three digital photographs of latent impression from quadrant C of the clear plastic were stored on a compact disc.
	Lifting	One latent lift card.
ZWG9BZ	Photography	Foster&Freeman DCS5 - episcopic mode, white light, 415nm with yellow filter

Item 1 - Preservation Response Summary

Participants: 293

Methods Utilized

Lifting	84
Photography	257
Scanning	6

****Note:** Methods listed are the preloaded options for selection via the CTS Portal and do not reflect all answers provided by participants.

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
229XB6	Photography	Photoshop
233UBY	Photography	Standard lighting
237988	Photography	
24VJZL	[No Methods Reported.]	none requested
29PMKD	Photography	
29QCRV	Photography	DCS5
2HZMDT	Lifting Photography	Standard Tape lift, placed on white lift card One photograph taken of Latent print marked L-1A
2KG724	Photography Lifting	Photographic fixation is made by using general shots, close-up with and without metric witness and close-up, using a macro and tripod lens. Conventional transparent tape is used and white cardboard as a support.
2KZ4HA	Photography	images(s) saved onto CD. Used filter with blue laser to enhance image.
2QPLX7	Photography	
2RJBXU	Photography	i took photos of fingerprint.
2TU9BB	Photography	Digital photography
3242WQ	Photography Lifting	I took a photograph of the print with a scale. I then lifted the print with tape and placed it on a fingerprint card.
34QML8	None	
3AEBHY	None	
3AKBRE	Photography	Nikon, RAW format FSIS, TIFF format, uploaded/stored in Foray
3BD9YL	Photography	The photo has taken with CSS light wave , an orange filter and yellow filter. The best photo was taken when we treated the item with green powder.
3ER789	Photography	Viewed with RUVIS
3KYFU6	Photography	Digital Imaging
3LU43R	Photography	VIS: . No prints CA: 1 image(s) taken with LP - Camera 10/Lens 2 on 6/15/2022 (Direct Incandescent/Flood). POW: 1 image(s) taken with LP - Camera 10/Lens 2 on 6/16/2022 (Direct Incandescent/Flood). NIN: . No prints PD: . No prints
3MM3BY	Photography	Photographed at visual, superglue fuming, rhodamine, and powder

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
3N2BJY	Photography	Obtained photographs while item was under UV lighting using MIDEO camera equipment.
	Lifting	Obtained 1 lift after powder dusting.
3RZMFY	Lifting	Lift recovered during powder application. Lift was performed using a clear adhesive tape and applied to a white fingerprint card.
3XAVQ2	Photography	Photographs taken after each chemical/physical processing step.
3YETTG	Photography	photographed CA results and dye stain results with scale
	Lifting	lifted print with tape and placed onto latent print card
3ZDTXN	Photography	
47XDFU	Photography	Visual Examination: Five (5) digital images taken with camera 11/lens 3 on June 28,2022 using direct fiber optic and LED lighting. See image metadata for settings. Cyanoacrylate Fuming: Four (4) digital images taken with camera 11/lens 3 on July 12,2022 using direct fiber optic lighting. See image metadata for settings. Magnetic Powder: Four (4) digital images taken with camera 11/lens 3 on July 12,2022 using direct flood and fiber optic lighting. See image metadata for settings.
	Scanning	Magnetic Powder: One (1) digital image taken with scanner 13 on July 12, 2022. See image metadata for settings. Ninhydrin: No images taken. PD: No images taken.
4CHH33	Photography	
4EQL2K	Photography	Photographed with and without labeled (2A) adhesive scale.
	Lifting	Latent print (2A) was lifted with clear frosted tape and placed on a latent lift card.
	DFO	DFO (with humidified heat) was applied to the item in an attempt to develop ridge detail on the paper area surrounding the foil stripe (containing ridge detail). The item was viewed with a blue (450 nm) ALS and orange goggles. No additional development/ridge detail observed.
4NTTUY	Photography	Through photography I documented the finger print.
68PPVU	Lifting	Latent print tape was used to collect the processed print and secure it on a latent print lift card.
69YJQT	Photography	Digital photography
6AAKB8	Photography	Nikon D750, Nikkor Macro 60mm
6FGUX3	Photography	Viewed using a Laser at approximately 500 nm to illuminate.
6GA3PJ	Photography	For actual casework, the latent impression would have been photographed for enhancement and examination.
6NL9DA	Lifting	

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
6PMYNX	Adhesive Tape	The fingerprint was preserved with adhesive tape and photo documented.
6QWYQK	Photography	
783GLP	Photography	VIS: 1 image(s) taken with LP - Camera 10/Lens 2 on 7/19/2022 (Direct Reflection LED). CA: 2 image(s) taken with LP - Camera 10/Lens 2 on 7/20/2022 (Direct Reflection LED). POW: 1 image(s) taken with LP - Camera 10/Lens 2 on 7/22/2022 (Direct LED). Four images
7BFCU8	Photography	A photograph of the fingermark was conducted : – after superglue fuming (DCS 4 system) coaxial lighting
7DQ6Y8	Photography	Digital photography
7QCPBN	Photography	1:1 photograph take with and without calibrated measuring device.
7QGUYD	Lifting	Print developed on area "A" and lift card was prepared.
7R6DW6	Photography	FSIS/RUVIS Photographs
7TFH89	Lifting	Tape lift
7XFJFH	Photography	
7Y7RFK	Photography	
88A9JW	Photography	1. Canon EOS 5D MkII, 100mm, white light. 2. Canon EOS 5D MkII, 100mm, Crime light 42S (GG495, 420-470mm with right filter).
88FCK3	Lifting	Once a print is observed to have ridge detail, tape is laid onto the print and lifted in one direction and placed on a card in the same direction as lifted to decrease air bubbles. The pertinent information is then written on the latent lift card.
88WLFN	Photography	Z7 see meta data
8AHJFZ	Photography	DCS5
	Lifting	Tape
8U9TH2	Photography	The fingerprint in section A was photographed after Cyanoacrylate fuming and powder dusting.
928CHB	Photography	After processing the print was photo lifted using the full spectrum imaging system (FSIS) with lamp and filter at 365nm and 625nm wavelength.
96MZ39	Photography	oblique lighting for latent prints developed with CA and Forensic Blue Light 450nm for latent prints developed with MRM-10 dye stain
9EPAEY	Photography	
9EUL3V	Lifting	N/A

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
9J8DHN	Photography	Photography was used after the visual examination. I used the direct lighting method with the fiber optic light source. 3 photographs were taken.
	Photography	Photography was used after the CA. I used the direct lighting method with the fiber optic light source. 2 photographs were taken.
	Photography	Photography was used after magnetic powder. I used the direct lighting method with the incandescent light source. 2 photographs were taken.
	Scanning	Scanning was used after ninhydrin . 2 scans were taken.
9KUBFT	none	
9KXN8W	Photography	
9KZBNA	Photography	Digital Photography - Tungsten with oblique lighting
9M7Y4Z	Photography	
9TX2DQ	Lifting	Latent Print Lifted Using Latent Print Tape And Placed On Latent Print Card And Packaged.
9U29EW	Photography	Results from visual examination would not photograph Oil Red O results photographed at F22 ISO 100 RAW forma
9VHXT6	Photography	
9VKM39	Photography	Used FSIS camera with UV filter
9WTTJ3	Photography	Nikon D850 with a 60mm lens
ABQ7BJ	Photography	Any latent print developed was documented with a digital camera and with the forensic light source (when needed).
ABRWL9	Photography	Visual - 5 photos. CA - 5 photos. Powder dusting - 5 photos
	Lifting	3 lifts taken
	Scanning	Lifts scanned
AQLLJQ	Lifting	One latent lift obtained
ARXHNV	Photography	
AT8GQQ	Photography	
ATR9UA	Lifting	One latent lift card was prepared
AVC3M4	Photography	Canon EOS 800D, Canon Macro Lens EF-S 60mm
AVETV8	Photography	Nikon camera, scale in photograph, RAW format, uploaded into Foray for storage
	Photography	FSIS, UV light with UV filter

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
AZAHGK	Photography	Visual prints were photographed using a "Nikon Z7" camera mounted to a stand. Direct, LED lighting was used to visualize.
	Photography	Visual prints were photographed using a "Nikon Z7" camera mounted to a stand. Oblique, LED lighting was used to visualize.
	Scanning	Item was scanned using an "Epson Perfection V600 Photo" scanner at 1200dpi.
B79B4K	Photography	The impression was photographed for documentation and preservation.
	Lifting	And use a lifting patches for preservation.
BT46XT	Photography	Upon initial visual examination using an oblique white light, I observed ridge detail. I photographed the ridge detail using oblique white light and a measuring device. The photograph was filled out with the appropriate case information.
	Photography	After cyanoacrylate fuming, I photographed the ridge detail again using an oblique white light and a measuring device.
	Photography	After powder processing, I photographed the ridge detail again using an oblique white light and a measuring device.
	Lifting	After photographing the ridge detail post-powder processing, I lifted the ridge detail using 2 inch tape and a white latent print lift card. The back of the lift card was filled out with the appropriate information.
BUYVWU	Photography	
BVTJDQ	Photography	
BWKTCX	Lifting	Once enough powder was applied to show sufficient print detail, latent print tape was used to lift the print. This tape was placed on a white latent print card for preservation. Case information and location description were written on the back of the card.
BX4ATL	Photography	VIS: oblique/side lighting with fiber optic light- 2 images. CA: oblique/side lighting with fiber optic light-1 image. POW: oblique/side lighting with fiber optic light- 1 image. NIN: no enhancement. PD: no enhancement
C6EX6Y	Photography	
CD4RUG	[No Methods Reported.]	The print did not contain enough ridge details, so it was not preserved.
CEHCMR	Lifting	On 07/17/22 ridge detail was not observed. On 07/23/22 at 0830 hrs. Black magnetic powder was applied to the item. Lifting tape was applied to section that ridge detail was identified. The ridge detail was light.
CEHE8P	Photography	Photography using white light after CA for small amount of visible ridge detail on reflective strip in Quadrant A. Photography after R6G for small amount of ridge detail on non-reflective portion of paper in Quadrant A using Crimescope CS-16-500 and Promaster YA2 and Tiffen Orange 21 filters stacked. No further development. NOTE: Tests were done on similar wrapping paper with CA and R6G working the best over CA and IND - NIN.
CK8PNF	Photography	

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
CNRL8Y	Photography	Photos taken before and after cyvacing.
CQDL8E	Photography	
CWLR4L	Photography	digital camera
CZXR4J	Photography	One image was taken with Crime Scene Unit (CSU) Camera 11/Lens 10 on 7/4/22 using oblique/side Fiber Optic lighting.
	Scanning	One scanned image was taken with Crime Scene Unit (CSU) Scanner 13 on 7/4/22 using direct fluorescent lighting.
D36EBV	Photography	Ridge detail was photographed using a Nikon D850 camera with white light after CA fuming and an orange filter using ALS 505 wavelength after rhodamine processing.
	Lifting	No ridge detail was observed or lifted.
D4FA2U	Photography	Before CA, after CA, and after powdering: pictures taken under white light
D8UWML	Photography	The latent print was photographed whit metric witnesses using a digital camera Nikon D7500 to preserve it.
	Lifting	The latent print was lifted using a white plastic patch with metric witnesses.
D9R8KA	Photography	
DEXTGK	Photography	Six photographs were taken on Camera 11/Lens 3. Two photographs were taken after a visual examination and two photographs were taken after the completion of cyanoacrylate fuming, in which diffused LED lighting was used. One photograph was taken after the item was dusted with powder using diffused LED lighting. One photograph was taken after the completion of Ninhydrin with diffused LED lighting. No enhancement occurred after the completion of Physical Developer.
DG673R	Lifting	Lift tape applied to latent fingerprint and then lift tape applied to fingerprint lift card.
	Photography	Macro lens and scale used for photograph. Camera was set at RAW and ISO 100. Photograph take of latent fingerprint on fingerprint card prior to removing the latent fingerprint lift from its recovery location, with camera set at landscape and ISO 400.
DHYULN	Photography	direct and oblique lighting, photographed on raw and fine
DJRTUU	Photography	
DN4VKW	Photography	Due to texture of wrapping paper, item was photographed prior to lifting.
	Lifting	Developed fingerprint was lifted using fingerprint tape, the tape was then applied to a latent fingerprint card. All required information was included on the back of the card. Fingerprint card packaged, entered into the Digital Traq system, and transferred to the appropriate location.
DQCVWQ	Photography	Coaxial light and blue light, DCS5 F&F system

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
DVHT2N	Photography	I documented the fingerprint with photos before, during and after the lifting of the fingerprint
	Lifting	I used a plastic adhesive patch for the lifting of the footprint but I kept the patch on the print to preserve it and not damage it.
E3YJ6V	Scanning	Scanned print Section A
	Lifting	One (1) tape lift from Section A. Downloaded to DVD
EAGUEP	Lifting	The latent print was photographed and then preserved using a hinged print lifter.
ELWM6K	Lifting	The latent print was photographed and then preserved using a hinged print lifter.
ELWZBD	Photography	
EQ678J	Photography	photograph was taken with LabKam color and shine of the evidence made ridge in the stripe of the wrapping paper difficult to capture photograph was taken "as is" of ridges processed with black, magnetic powder photograph was taken with orange filter of ridges processed with black, magnetic powder photograph was taken with white light of ridges processed with black, magnetic powder overall photograph of evidence was also taken
EVF4QZ	Photography	Photography of the mark after every step of examination
F4P3LM	Photography	A photograph of the developed print was captured using a Nikon D3500.
F4QTWB	Photography	Photograph result with Nikon SLR
F6ZZY4	Photography	Macro photography
F8ULVG	Photography	Visual Examination: Two (2) digital images taken with camera 11/lens 3 on June 29, 2022. See image metadata for settings. (Section A) Cyanoacrylate Fuming: Three (3) digital images taken with camera 11/lens 3 on June 29, 2022. See image metadata for settings. (Section A) Powder Dusting: Two (2) digital images taken with camera 11/lens 3 on June 29, 2022. See image metadata for settings. (Section A)
FB97VB	Photography	
FBAW7Y	Photography	Overall photograph and closeup photographs were taken of the ridge detail that was visually observed in quadrant A.
	Lifting	Lifted the developed ridge detail from quadrant A with clear tape and placed the tape on a lift card.
FBPHDF	Photography	Photographed using Camera 11/Lens 3. Camera settings were verified prior to use. Visual and Cyanoacrylate photographs taken under direct fiber optic light. Powder photograph taken under transmitted fluorescent light. One visual photograph was taken with FSIS under direct UV light.
	Scanning	Powder scan used scanner 13. Scanner settings were verified prior to use.

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
FBR6WE	Photography	2 Visual images taken: 1 Direct Reflection with FSIS UV light/camera; 1 Direct reflection with fluorescent lighting with camera 10. 1 CA image taken with camera 10/Lens 2 using LED light and direct reflection. 1 POW image taken with camera 10/Lens 2 using direct reflection lighting with the incandescent flood lamp.
FCFPDJ	Photography	After having worked on the piece of evidence described above, the latent print was photographed documented using a digital camera Nikon D 7500 to preserve it.
FENQNH	Photography	I observed a print at the visual process on Item 2 and took 1 photo of it using direct fiber optic lighting.
	Photography	I also observed a print on Item 2 at the black magnetic powder process and took 2 photos of it using direct fluorescent lighting.
FENQUJ	Scanning	
FFLZM2	Photography	We got the best results by photographing the print from the metallic stripe after the cyanoacrylate fuming using UV-light + filter (Baader U-filter/bandpass filter) and from the surface of the paper (outside metallic stripe) using existing light.
FJRJ6	Photography	Oblique Lighting, Forensic Light Source, Cyanoacrylate Fuming, Magnetic Powder. 7 friction ridge images obtained.
	Lifting	Magnetic Powder. 1 latent lift card obtained.
FKUA2N	Scanning	
FM76MG	Photography	Possible ridge detail was visualized after CA. Item was photographed using direct LED light. Possible ridge detail was visualized after magnetic powder. Item was photographed using direct LED light.
FNWCLJ	Photography	Used Nikon D7500 camera.
FPNDLF	Photography	
GA4HJP	Photography	
GFF29J	Lifting	A white plastic patch was used for the lifting and preservation of the fingerprint.
GJ3QG3	Photography	
GKCVUQ	Photography	Digital; Nikon D810 SLR
GKWCCE	Photography	FSIS - 1 image, FSIS with UV light CA - 1 image, FSIS with UV light
GLNKAW	Photography	
GMZAGF	Photography	Photographed with a scale containing case number, date, item number, processed used, and initials.
GNQK89	Photography	With the use of a camera Nikon D7500 on a metric scale, the finger print was photograph.

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
GPHHFF	Photography	Lighth source F&F Crime Light 82S 420-470nm and Schott GG495 filter. Canon EOS 5D + 100mm macro
GUCF7R	Lifting	Black powder
GV6DEX	Photography	
GZHCQR	Photography	Photographed after CAE processing, again after mag powder, and a third time after dyestain
H34BNL	Photography	technical photography, Photoshop, images saved as RAW and TIF
H82MUK	Photography	
H82PBC	Photography	after a visual exam revealed a finger[print in section a its was photographed with a scale then fumed in a tank with cyanoacrylate then photographed again, the dusted with magna brush powder to further enhance the print then photographed again with a sclae
H84CUB	Photography	Lab camera
HEK38P	Photography Lifting	
HJRLCA	Photography	Photographed the print under a green forensic light source after dye stains and under regular white light after ninhydrin.
HNPZ47	Lifting	Applied Accutrans silicone casting material over developed ridge detail. Let the casting material dry for approximately ten minutes. Lifted the Accutrans casting from the item and secured the casting to a latent print lift card using staples in areas with no ridge detail.
HPJNKF	Photography Scanning	Photographed using Camera 11/Lens 3. Visual, Cyanoacrylate, and Powder photographs taken under diffused and tented LED light. Ninhydrin and Physical Developer prints scanned using Scanner 13.
HQBMWT	Photography	Digital Capture.
HTY8CX	Lifting	fotografia y levantamiento (it was used documented with photography and lifted)
HV8D36	Photography	
HWJ383	Lifting	Ridge detail was lifted using fingerprint lifting tape. This lift was placed onto a fingerprint lift card.
HY9CFH	Photography	I took five digital photographs of latent impressions in Quadrant A at the following stages: 1) Visual examination 2) Superglue with Short wavelength UV/FSIS camera 3) Aqueous Rhodamine /Laser with Wratten #21 orange filter 4) Powder 5) DFO with LASER

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
HZJE43	Photography Lifting	Three photographs taken of the developed latent print. One with white light, one with white light and levels adjustments, and one with crime lite 3000-10000K at setting 04 with pale yellow filter, Tape lift.
J7KVCM	Photography	ADAMS - Authenticated Digital Asset Management System, Photoshop
J8WU6B	Photography Lifting	
J9U3DU	Photography	Digital photography
JVZQUP	Photography	1. After Cyanoacrylate fuming, Mark was photographed using White light.
K7K8DN	Lifting	6/15/2022 Lifting tape and white backing card
KDVHFN	Lifting	
KERUEW	Photography Lifting	
KJ4X8K	Photography	Digital Photography - uploaded to ADAMS for safekeeping
KKZKFH	Photography Lifting	Using Photo document the fingerprint before, during and after lifting it. Use a plastic patch for footprint lifting. Which you leave on the semi-absorbent surface (wrapping paper) to preserve it and it will not break.
KRZWH7	Photography Lifting	DIGITAL PHOTOGRAPHY ADHESIVE TAPE LIFT AFTER MAGNETIC POWDER DUSTING
KUN7UT	Photography	Digital photography
KWCU2L	Photography	Capture and Enhancement processing completed with Foster+Freeman DCS5 imaging system and daylight rang light (Visible filter add on camera Nikon D5), add daylight filter to halogen light source to become latent print more clear.
KXNF3A	Photography	It was photographed with a Nikon Z7 camera. The visual examination photograph was taken using direct fluorescent lighting. The cyanoacrylate photograph was taken using direct fluorescent lighting. The powder photographs were taken using direct fluorescent lighting.
KXQZUJ	Photography	Used white light to photographed the partial latent
LFX2TA	Photography Lifting	The fingerprint was photographed for preservation. A white plastic patch was used for the lifting and preservation of the fingerprint.
LRH4JG	Photography	digital camera, FSIS

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
LRVRMU	Photography	The ridge detail found during my visual examination of item-2 was photographed prior to chemical processing. Additional photographs were taken of this detail after the Cyanoacrylate process, as well as after the application of MRM10. All photographs of ridge detail were taken with a Canon 5D Mark III camera utilizing a Canon Ultrasonic 100mm macro-lens. All photographs were taken in RAW format with a surface to sensor distance no greater than 0.49 meters.
LTB2RN	Photography	Photographs using a Nikon D850 were completed after the visual exam (using white light), Cyanoacrylate Fuming (using white and coaxial lights), and Rhodamine (using orange filter and 505 nm light). Placard with case information is photographed prior to evidence photographs; evidence photographs include a scale.
	Lifting	After each step which included processing with black magnetic powder, fingerprint tape was used to collect the developed print; two tape lifts were placed onto two latent lift cards (one tape lift per card). Latent lift card includes case information and a diagram of lift location
LUZE8L	Photography	
LYCBXG	Photography	One latent print (2-LP1) photographed after visual examination with coaxial lighting. 2-LP1 also photographed after cyanoacrylate fuming with LED lighting. 2-LP1 photographed again after powder dusting with coaxial lighting. An overall image of Item 2 captured at the end of processing with LED lighting.
M47KPU	Photography	3 photos taken at vis
	Lifting	3 lifts taken (L1-L3)
MFHRNF	Photography	I photographed the latent impression after visual exam using a LASER and orange filter. I also photographed the latent impression after processing with black powder, and again after processing with Aqueous Rhodamine using a LASER and orange filter.
MG93CM	Photography	TM "2.1PC" in A section. The picture has been taken with 550nm to photograph the developed latent print (partial as well as detail.)
MH6DCW	Photography	See above for photography [In Table 2: Development Methods, participant stated number of photos taken]. FSIS with 254nm. Nikon D800 used on copy stand.
ML8A4C	Photography	Nikon d810
MRU3C6	Photography	one latent print image was obtained from Section A on Item #2 after processing with magnetic powder
	Lifting	one latent print lift card was obtained from Section A on Item #2 after processing with magnetic powder
MUE8QU	Photography	
MVPZDG	Photography	Photographic fixation is made by using general shots, close-up with and without metric witness and close-up, using a macro and tripod lens.
	Lifting	Conventional transparent tape is used and white cardboard as a support.

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
MWV3EN	Photography	FSIS was able to photograph the print via UV illumination.
MXZTHH	Photography	Nikon camera/software. Upload photos to ADAMS. Photoshop through ADAMS
MYQ2LR	Lifting	The visible ridge detail present in Quadrant A and recovered using a tape lift. The latent lift card was submitted to the Latent Print Unit.
MZZ9MY	Photography	
N2VVXG	Photography	Any suitable marks developed throughout sequential treatment were marked up and photographed 1:1 using a D810 Nikon digital camera with an AF-5 micro nikkor 105mm lens, 8x4 Crime Lite light source(s) and appropriate camera filter(s). The camera is linked to DCS5 (Digital Capture System 5) software where the images are exhibited with full audit trails and further DCS5 enhancement tools can be used to improve contrast/remove background interference where applicable. Exhibited images then submitted to the Fingerprint Bureau for further analysis and comparison.
NCCQ39	Photography	For visual examination, I used direct fiber optic light to photograph possible ridge detail using a Nikon Z7 camera.
	Photography	For cyanoacrylate fuming, I used direct fiber optic light to photograph possible ridge detail using a Nikon Z7 camera.
	Photography	For powder dusting, I used direct incandescent/flood light to photograph possible ridge detail using a Nikon Z7 camera.
NEKY8M	Photography	Upon initial visual exam, used reflective lighting to photograph impression
	Photography	Photographed after lumicyano fuming both with ALS, and orange filter, and without ALS using reflective lighting
	Photography	Photographed after black fingerprint powder
	Lifting	Lifted impression with black gelatin lift
	Photography	Photographed impression on gelatin lift
NEMNE6	Photography	
NG3BXC	Photography	Digital capture (DCS 5) after visual examination in the white light and after cyanoacrylate fuming in the white light. Digital capture (Nikon D300) after powders in the white light.
NHYJ7V	Photography	The method used to preserve the evidence: Photography with Nikon D 850 camera. Image Quality: Tiff.
NQEFWN	Photography	Orange lens cover used for photography with 520nm Dual 77 laser at 1,2-Indanedione step.
NY8NHE	Photography	Photographs taken after superglue, powder, indandione, ninhydrin, and rhodamine steps. Mini-Crimescope White Light was used for superglue, powder, and ninhydrin photographs. Dual 77 Laser 520 nm was used for indandione and rhodamine photographs.
P33NBG	Photography	The fingerprint was photographed at every step of a research.

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
P3H67A	Scanning	Developed latent print covered with clear tape. Digitally scanned at 1200 resolution.
PE2FZU	Photography	
PEVAD6	Photography Lifting	photography with scale
PG4DBM	Photography	Digital Camera
PGLBG8	Photography	Used Nikon camera.
PHY3BA	Photography	Imprint photographed using Canon camera approx 2 hours
PK79WB	Photography	Raw and Fine
PLWKPP	Photography Lifting	I photographed the print with a digital camera using a metric scale. I lifted the print with lift tape and placed it on a backing card after photography.
PREY6F	Photography Lifting	
PVHMQX	Photography	
Q3ZH67	adhesive tape Photography	The fingerprint was preserved with adhesive tape. It was also preserved by photo.
Q4U4YX	Photography	Lens Nikon AF Micro Nikkor 60 mm, light appropriate to the method used - withe, blue light.
Q9KGXZ	Photography	Used Nikon camera.
QADE77	Photography	
QC3QV4	Photography	VIS - UV lighting and FSIS. NIN, PD - no photography (no enhancement). CA - LED, direct lighting. POW - Incandescent, oblique lighting
QEQCGZ	Adhesive tape	The fingerprint was preserved with adhesive tape and photo.
QFNKMY	Photography	
QM9GVU	Photography Lifting	Photographed latent print to scale Black Powder
QQ8RQU	Lifting Photography	Applied lifting techniques to obtain latent prints on magnetic powdered areas on Lab Item 2. Photographed latent print observed on Quadrant A of Lab Item 2.
QX8CQ4	Photography	Coaxial Light UV Light

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
R4RPA4	Photography	Visual and Cyanoacrylate photographs were taken using FSIS under direct UV light. Ninhydrin photographs were taken using camera 11/Lens 3 under diffused LED light.
R6FAUD	Photography	white light without filter for direct illumination and after lumicyano (latent print not visible with UV light)
R8AXCA	Photography	
RAU26Z	Photography	
RBQC6A	Photography Lifting	Gel lift post CAE, no enhancement
RDFMXN	Photography	Captured image with a Canon EOS Rebel T6i camera
RE9L7U	Lifting Photography Digital adjustments	Mikrosil casting Digital camera Nikon D750, Nikkor 105 mm. White light Processed in Adobe Photoshop CS
REPM2A	Photography	
RGEYUN	Photography	
RKCM9A	Lifting	Print was recovered after dusting. Print lifted and preserved on index card.
RKFZZC	Photography	Item 2 (Quad A)
RNUML4	Lifting	I used a adhesive tape to save it. The latent print was photographed.
RUK2BB	Lifting	Once the piece of evidence is properly exposed and documented it is lifted with a piece of plastic patch. to maintain the integrity of the latent print.
T2DVG9	None	
TA9QLX	Photography Lifting	Digital photos 2 inch lifting tape
TARBUC	Scanning	
TAUZ2U	Photography	Photographed with lighting and scale Assigned image Item 1-2
TH6JXY	Lifting	
TXZY76	Scanning	Epson scan software; Epson Perfection V800 at 1200dpi; saved as TIF
TZKVQP	Photography	1 photo after CA fuming. 1 photo after Black powder 1 photo after Basic Yellow. with Orange YA2 filter on camera @ 415nm.
U6V4RT	Photography	Would have used photography if evidence had been part of real casework.

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
U9TUQD	Photography	FSIS- Color used to digitally capture image.
UEGALC	Photography	
UNPXK4	Lifting	Latent lift tape was used to lift latent lift off of the section and placed onto a latent lift car
UPX4RD	Photography	Digital photograhly with measure tape. Crime scope, CSS (blue green light) and deep orange filter. White sidelight on the red stripe.
UR3TV8	None	
UR4J7W	Lifting	After developing the fingerprint with powder dusting, it was preserved with a photo and plastic patch.
UR87J4	Photography Adhesive tape	I took a photo of the impression and preserved this by photo. The fingerprint was preserved with adhesive tape.
UT2RCU	Photography	The fingerprint was photographed at every stage of research after disclosure.
UT4GJD	Photography	Ridge detail observed and photographed using macro lens, F/8, 1/1000sec.
UUBYFM	Photography	Macro camera lens (Nikon D3300).The photo of the latent print is archived in the AFIS database of fingerprints. The photo of the latent print is archived in the AFIS database of fingerprints.
UXDV6H	Photography	Latent print was clearly visible and photographed with and without a forensic laser.
UYMXVM	Photography	1,2-Indandione Ninhydrin
VBCBFC	Photography	
VUBCHA	Photography	
W3AUM	Photography	Fluorescent photography with orange barrier filter.
VWAL7	None	
W64ZA3	Scanning	A piece of clear lifting tape was placed over the developed latent print. The print was then captured electronically using an EPSON Expression 11000XL scanner at 1200 dpi.

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
W8C47Z	Photography	The item was photographed using a Nikon FTZ camera with a AF-S Micro Nikkor 105mm 1:28G ED Lens, mounted to an adjustable column. The resolution was adjusted greater than 1000 pixels per inch for comparison quality. The area was focused using a prepared template that show the maximum image area for the camera. A scale was used to document Case Number, Item Number, Process Used, Date of Photograph, and Initialed. Photographs were subsequently uploaded to the [Laboratory] Latent Print Image Server.
	Scanning	The item was scanned using a scanner set to a resolution of 1200 pixels per square inch for comparison quality. A scan was subsequently uploaded to the [Laboratory] Latent Print Image Server.
WAJRZW	Scanning	Scanned item
	Photography	Photographed latents during visual exam and mag powder
	Lifting	Lifted print after mag powder
WDG9EB	Photography	Captured after visual examination with digital camera. Also captured with RUVIS after Cyanoacrylate fuming using Ultraviolet light and camera.
WDX3FK	Photography	Used Nikon camera, used scale in photograph and uploaded into Foray.
WKZE8C	Photography	CNA: white light and polarisationfilter on lightsource and camera white light in reflection
	Photography	Magnetic powder: White light and polarisationfilter on light source and camera
WLTE32	Photography	
WLU3NL	Photography	Scaled photos taken of evidence with and without use of laser. CD created containing latent photos.
WPUDJL	Photography	Photographed with and without a scale.
WQ4FAQ	Photography	
WU69H4	Photography	Photography of latent impression after cyanoacrylate fuming and after black magnetic fingerprint powder processing.
WVG44V	Lifting	
WWEE2J	Photography	After powder
WWTXQN	Photography	
	Lifting	Black powder - tape lift
XBUMN9	Lifting	Lift tape was applied to a fingerprint lift card.

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
XTQCFW	Photography	Photographed with a scale that includes date, case number, item number, process, and initials. VIS: No prints observed. CA: 3 image(s) taken with LP - Camera 10/Lens 2 on 6/6/2022 (Direct Fluorescent). POW: 1 image(s) taken with LP - Camera 10/Lens 2 on 6/7/2022 (Direct Fluorescent). NIN: No enhancement
	Scanning	PD: 1 image(s) taken with CSU - Scanner 13 on 6/27/2022 (Direct).
XU3Y4C	Photography	Camera A
XVFLMC	Photography	Oblique light; only partial print development
	Photography	FSIS with 254nm UV light and UV filter
XYEVXE	Photography	Examination quality photograph captured of RD noted in quadrant A.
Y2DQW8	Lifting	Lift tape applied to fingerprint lift card.
Y8MZYA	Photography	Nikon D7000, oblique flashlight/visible lighting
YEN4CM	Photography	
YFHP8Y	Photography	Photographed with a scale that included the case number, date, item number, process used, and my initials. Photography per process: VIS: 2 images taken with LP - Camera 10/Lens 2 on 6/9/2022 (Using the Direct lighting technique and LED light)). CA: 2 images taken with LP - Camera 10/Lens 2 on 6/15/2022 (Using the Direct lighting technique and LED light)). POW: 2 images taken with FSIS on 6/17/2022 (Using the FSIS-Integration lighting technique and UV light).
	Scanning	Scanned with a scale that included the case number, date, item number, process used, and my initials. Scanner per process: NIN: 1 image taken with CSU - Scanner 13 on 6/20/2022.
YGBMDK	Photography	Latent print photographed using DSLR camera using orange filter with ALS
	Lifting	Latent print lifted using clear lifting tape on white latent lift card
YH6M44	Photography	Canon EOS 5D, Ultrasonic 100mm 1:2,8 DG Macro with orange filter and Crime Lite 42S (Blue 420-470 nm, Green 480-560 nm).
YJFHU3	Lifting	Print was collected after magnetic powder processing. Tape was used for collection and placed on a fingerprint card.
YJG86Q	Photography	Copystand with 45deg Lighting
YQXL4Q	Photography	The print was photographed with a DSLR camera after each of the following processing steps: initial visual examination, cyanoacrylate fuming, powder dusting, dye stain, and wet powder suspension. Specific information per each development step: -Initial visual: used axial lighting and "huffing" (expelled moist air from the mouth over the print surface) with a Crime-Lite2 (white) -Cyanoacrylate fuming: used axial lighting with a Crime-Lite2 (white) -Powder: used a flashlight -Dye stain: used a Rofin Polilight PL500 with an orange filter on and off the camera lens -Wet powder suspension: used a Crime-Lite2 (white)
YT8NX2	Lifting	

TABLE 3 - Item 2

WebCode	Preservation Methods	Method Details
YUZL79	Photography	ADAMS
YVCEZB	Powder Dusting	Processing time = approximately 3 minutes. Black magnetic powder was used to process item
	Lifting	Latent was lifted using fingerprint tape, placed onto a latent lift card, and entered into the Traq System
YWPXYL	Photography	Images saved in JPG and RAW at 1000 dpi, and transferred to a DVD.
	Lifting	Fingerprint lift tape utilized and placed on latent print lift card.
Z7D2R8	Photography	The evidence was photographed. The latent ridge detail was photographed in place where the fingerprint was recovered from the evidence.
	Lifting	When latent ridge detail was revealed, fingerprint lift tape was pressed onto the print then transferred to a fingerprint card. Marks were made on card referenced with a letter and an arrow and photographed for documenting.
ZELVMZ	[No Methods Reported.]	latent left on paper to be submitted to latent print section for further analysis.
ZEZ93W	Photography	Was photographed with a Nikon D7500 camera and place a plastic patch to preserve it.
ZFDTU7	Photography	Camera (NIKON D810)
	Foray ADAMS	Photoshop via FORAY ADAMS
ZG36MK	Photography	
ZH36P7	Photography	Photo Evidence Scale
ZHYRX4	Photography	
ZNQPV8	Photography	Photo with Nikon D7000 camera with macro lens.
ZQBPYU	Photography	Camera 10/lens 2, direct reflection for V and CA, Direct lighting for CA, P and NIN
ZR4M8Z	Photography	Six digital photographs of latent impression from quadrant A of the foil striped wrapping paper were stored on a compact disc.
ZWG9BZ	Photography	Foster&Freeman DCS5 - episcopic mode, white light, 445nm with yellow/orange filter

Item 2 - Preservation Response Summary

Participants: 291

Methods Utilized

Lifting	77
Photography	253
Scanning	18

****Note:** Methods listed are the preloaded options for selection via the CTS Portal and do not reflect all answers provided by participants.

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
229XB6	Photography	Photoshop
233UBY	Scanning	Scanned at 1200 ppi
237988	Photography	
24VJZL	[No Methods Reported.]	none requested
29PMKD	Photography	
29QCRV	Photography	DCS5
2KG724	Photography	Photographic fixation is made by using general shots, close-up with and without metric witness and close-up, using a macro and tripod lens.
2KZ4HA	Photography	Used filter to enhance image.
2QPLX7	Photography	
2RJXU	Photography	
2TU9BB	Photography	Digital photography
3242WQ	Photography	I photographed the print using a scale and an orange filter on the camera.
34QML8	None	
3AEBHY	None	
3BD9YL	Photography	The photo has taken with CSS light wave and an orange filter. The best photo was taken when we treated the item with 1,2 Indanedione.
3ER789	Photography	Viewed with forensic laser
3KYFU6	Photography	Digital Imaging
3MM3BY	Photography	Photographed at DFO
3N2BJY	Photography	Obtained photographs using MIDEO camera equipment.
3RZMFY	Photography	Lift recovered during Ninhydrin application. Photograph was performed with a scale using a DLSR camera with micro lens. The image of the developed print was then burned to a disc.
3XAVQ2	Photography	Photographs taken after each chemical/physical processing step.
3YETTG	Photography	photographed with scale
3ZDTXN	Photography	

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
47XDFU	Scanning	Visual Examination: No images taken. Ninhydrin: One (1) digital image taken with scanner 13 on July 18, 2022. See image metadata for settings. PD: No images taken.
4CHH33	Scanning	
4EQL2K	Photography	Photographed with and without labeled (3B) adhesive scale.
4NTTUY	Photography	Through photography I documented the finger print.
68PPVU	[No Methods Reported.]	N/A. No latent prints were developed.
69YJQT	Photography	Digital photography
6AAKB8	Photography	Nikon D750, Nikkor Macro 60mm
6FGUX3	Photography	Viewed using a Laser at approximately 500 nm to illuminate
6NL9DA	Scanning	Scanned followed by photoshop to enhance image
6PMYNX	Photography	The fingerprint was preserved with photography.
6ZMHAY	Photography	To preserve/document the latent print that was developed, photographs were taken after the 1,2 Indanedione Zinc Chloride. An overall post-analysis overall photograph was also taken to document the location of the latent print.
7BFCU8	Photography	A photograph of the fingermark was conducted : – after Indanedione + zinc chloride (DCS 4 system) fluorescence – after Ninhydrine (DCS 4 system) green light illumination
7DQ6Y8	Photography	Digital photography
7QCPBN	Evidence Storage	With (-) results, the next step is evidence storage.
7QGUYD	Photography	Photographed print developed on area "B" and prepared a 1:1 photograph.
7R6DW6	Photography	Photographed with white light and green filter
7TFH89	Photography	DCS5
7XFJFH	Scanning	scanned on flatbed scanner at 2400ppi
7Y7RFK	Photography	
88A9JW	Photography	Canon EOS 5D MkII, 100mm, Crime Lite 42S, OG590 (480-560mm) with right filter.
88FCK3	[No Methods Reported.]	No preservation method was used as a print was not observed.
8AHJFZ	Photography	DCS5

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
8U9TH2	Photography	The fingerprint in section B was photographed after 1,2- Indanedione.
928CHB	Photography	After processing, the print was photo lifted using the full spectrum imaging system (FSIS) at 365nm wavelength.
96MZ39	Photography	with standard lighting
9EPAEY	Photography	
9EUL3V	Photography	Cannot determinate the finger print.
9J8DHN	Scanning	Scanning was used after ninhydrin . 1 scan were taken.
9KUBFT	none	
9KXN8W	Photography	
9KZBNA	Photography	Digital Photography - Tungsten lighting
9M7Y4Z	Photography	
9TX2DQ	[No Methods Reported.]	Item placed back into original packaging
9U29EW	Photography	Visualized with TracER Laser (532 nm) and photographed with an orange filter at F22 ISO 100 Raw format
9VHXT6	Photography	
9WTTJ3	Photography	Nikon D850 with a 60mm lens
ABQ7BJ	Photography	Any latent prints were documented with a digital camera and with the forensic light source (when needed).
ABRWL9	Photography	Visual - 0 photos. NIN - 6 photos (4 on 6-14, 2 on 6-23). Silver Nitrate - 3 photos
AQLLJQ	[No Methods Reported.]	No prints developed
ARXHNV	Photography	
AT8GQQ	Photography	
ATR9UA	Photography	printed 1:1 photograph of print.
AVC3M4	Photography	Canon EOS 800D, Canon Macro Lens EF-S 60mm, orange viewing filter (after DFO)
AVETV8	[No Methods Reported.]	No ridge detail observed
B79B4K	Photography	The impregnation revealed on the piece of evidence was photographed for documentation and preservation.

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
BT46XT	Photography	After observing ridge detail following Iodine Fuming, I photographed the ridge detail using a white light and daylight filter along with a measuring device. The photograph was filled out with the appropriate case information.
	Photography	After observing ridge detail following Ninhydrin, I photographed the ridge detail using a white light and green filter along with a measuring device.
BUYVWU	Photography	
BVTJDQ	Photography	
BWKTCX	Photography	Photographs were taken of the item after it was allowed to set for at least 24 hours. Overall, mid-range, close-up, and close-up with scale photographs were taken of the item from a camera copy stand. All of the photographs were taken with the following settings: Macro lens, RAW format, and at a 90 degree angle. All photographs were added to TraQ, and the close-up photograph with scale was opened in Adobe Photoshop. Using standard operating procedures, the close-up photograph with scale was enhanced, calibrated to a 1:1 ratio, and printed on photo paper. A reference photograph with enhancement history of the close-up image with scale was printed on normal printer paper.
C6EX6Y	Photography	
CD4RUG	Photography	The fingerprint was photographed after the 1,2-Indandione treatment, under the same condition the print was detected. By using 505 nm light source and orange filter.
CEHCMR	Photography	A print was observed on the item in section B. The print was photographed on 07/05/2022. Enhancement for Ninhydrin was completed on 07/17/2022 using the DCS-4. The image was printed on 07/17/2022.
CEHE8P	Photography	Photography of latent print in Quadrant B. 515nm, Promaster YA2 and Tiffen Orange 21 filters stacked.
CK8PNF	Photography	
CNRL8Y	Photography	
CQDL8E	Photography	
CWLR4L	Photography	digital camera
CZXR4J	N/A	No prints were observed.
D36EBV	Photography	Ridge detail was photographed using a Nikon D850 camera with an orange filter using ALS 505 wavelength after Indanedione processing and with white light after Ninhydrin.
D4FA2U	Photography	After 1,2-Indanedione: photos taken at 532nm with orange barrier filter
	Scanning	Overall scan of item 3 was taken after ninhydrin processing
D8UWML	Photography	The latent print was photographed whit metric witnesses using a digital camera Nikon D7500 to preserve it.

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
D9R8KA	Photography	
DEXTGK	[No Methods Reported.]	No prints were observed so no additional preservation was needed.
DG673R	[No Methods Reported.]	No sufficient ridge detail was developed.
DHYULN	[No Methods Reported.]	no ridge detail observed
DJRTUU	Photography	
DN4VKW	Photography	Overall photograph of Item 3 was captured. Close-up, 1:1 photograph of developed fingerprint (Quadrant B), was captured with scale. Photographs were uploaded to the Digital Evidence Traq system. Latent print photograph was enhanced using Photoshop. Original and enhanced photograph were entered into the Evidence Traq system, barcoded, and transferred to the appropriate location.
DQCVWQ	Photography	Fluorescence crimelite blue green + orange filter, DCS5 F&F system
DVHT2N	Photography	I documented the fingerprint with photos before, during and after the lifting of the fingerprint to preserve it.
E3YJ6V	Scanning	Scanned Print Section B. Downloaded to DVD
EAGUEP	Photography	Took a picture with Nikon D7500 camera.
ELWM6K	Lifting	The latent print was photographed and then preserved using a hinged print lifter.
ELWZBD	Photography	
EQ678J	Photography	Latent 1C-1 was photographed with Crimescope after 1,2-Indanedione processing when photographing with Crimescope, light was at 515 nm and an orange filter was placed on the camera lens overall photograph of evidence was also taken
EVF4QZ	Photography	Photography of the mark after every step of examination
F4P3LM	Photography	I used a Nikon D3400 with with a curved orange filter and a FF1.0 Narrow band pass filter to photograph the developed print.
F4QTWB	Photography	Photograph result with Nikon SLR
F6ZZY4	Photography	Macro photography
FB97VB	Photography	
FBAW7Y	Photography	Overall photographs and closeup photographs were taken to preserve the developed ridge detail from quadrant B.
FBPHDF	No prints observed.	

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
FBR6WE	Scanning	Scanner 8, 1 scan.
FCFPDJ	Photography	After having worked on the piece of evidence described above, the latent print was photographed documented using a digital camera Nikon D 7500 to preserve it.
FENQUJ	Photography	
FJHQZR	Lifting Photography	
FJRJ6	Photography	DFO and Ninhydrin Petroleum Ether. 4 friction ridge images obtained.
FKUA2N	Scanning	
FM76MG	Scanning	Possible ridge detail was visualized after PD. Item was scanned.
FNWCLJ	Photography	Used Nikon D7500 camera.
FPNDFL	Photography	
GFF29J	Photography	The finger was photographed for preservation
GJ3QG3	Photography	
GKCVUQ	Photography	Digital; Nikon D810 SLR
GLNKAW	Photography	
GNQK89	Photography	With the use of a camera Nikon D7500 and a metric scale, the finger print was photograph.
GPHHFF	Photography	Ligh Source F6F 82S 480-560nm and Schott OG 590. Canon EOS 5D + 100mm macro
GUCF7R	Scanning	
GV6DEX	Photography	
GZHCQR	Photography	Photographed after IND, photographed again after NIN although nothing suitable developed with ninhydrin
H34BNL	Photography	technical photography, Photoshop, images saved as RAW and TIF
H82MUK	Photography	
H82PBC	Photography	a fingerprint was observed in section b this was then photographed with a scale
H84CUB	Photography	Lab camera
HEK38P	Photography Lifting	

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
HJRLCA	Photography	Photographed the print under regular white light after ninhydrin and under a green forensic light source after dye stain.
HNPZ47	Photography	Photographed the ridge detail in section B and overall of item taken using the DCS-5 after Ninhydrin. No other ridge detail observed.
HPJNKF	Scanning	Ninhydrin print scanned using Scanner 13.
HQBMWT	Photography	digital capture.
HV8D36	Photography	superior contrast with DFO processing vs Ninhydrin
HWJ383	Scanning	The resulting ridge detail was scanned and the scan was printed and placed onto a fingerprint lift card.
HY9CFH	Photography	I took one digital photograph of latent impressions in Quadrant B of the piece of paper at the DFO with LASER stage.
HZJE43	Photography	Photographed on July 21, 2022
J7KVCN	Photography	ADAMS - Authenticated Digital Asset Management System, Photoshop
J8WU6B	Photography	
J9U3DU	Photography	digital photography
JVZQUP	Photography	Mark found on section B after 1,2-Indanedione. Photographed using 532nm light (green light) and camera filter 550nm.
K7K8DN	Photography	6/17/2022 -Nikon D300 camera on copy stand, RAW format, Aperture priority, 90 degrees to item, Angled lighting -Photographs captured - Overall of side with sections A-D, Middle area of section B on side with sections A-D with scale present -Photographs captured uploaded into Digital TraQ -Photograph of Middle area of section B on side with sections A-D with scale present enhanced in Photoshop -Enhancement calibrated 1:1 in TraQ and printed
KDVHFN	Photography	
KJ4X8K	Photography	Digital Photography - uploaded to ADAMS for safekeeping
KKZKFH	Photography	Using Photo document the fingerprint before, during and after lifting it.
KRZWH7	Photography	DIGITAL PHOTOGRAPHY
KUN7UT	Photography	Digital photography
KWCU2L	Photography	Capture and Enhancement processing completed with Foster+Freeman DCS5 imaging system and green rang light (Visible filter add on camera Nikon D5), add green filter to halogen light source to become latent print more clear.
KXNF3A	Photography	No latent prints were observed.
KXQZUJ	Photography	Limited ridges observed and photographed using alternate light source

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
LFX2TA	Photography	The fingerprint was photographed for preservation.
LRH4JG	Photography	digital camera
LRVRMU	Scanning	The ridge detail developed within quadrant-B was recorded using an Epson V750 Pro scanner at 1200 DPI and in TIFF format. Scans were taken of the ridge detail both before and after exposing the item to steam.
LTB2RN	Photography	Photographs using a Nikon D850 were completed after processing with Indanedione (using orange filter and 505 nm light), and Ninhydrin (using white light). Placard with case information is photographed prior to evidence photographs; evidence photographs include a scale.
LUZE8L	Photography	
LYCBXG	Photography	One latent print (3-LP1) photographed after 1,2-Indanedione with green laser and orange filter. An overall image of Item 3 captured at the end of processing with LED lighting.
M47KPU	Photography Photography	1 photo taken at Ninhydrin 1 photo taken at ZnCl
MFHRNF	Photography	I photographed the latent impression after processing with DFO using a LASER and orange filter. I also photographed the latent impression after processing with Zinc Chloride using an ALS and orange filter.
MG93CM	Photography	TM "3.1PC" in B section. The picture has been taken with 550nm to photograph the developed latent print (partial as well as detail.)
MH6DCW	Photography	See above for photography [In Table 2: Development Methods, participant stated number of photos taken]. LASER with 532nm. Nikon D800 used on copy stand with curved orange filter.
ML8A4C	Photography	Nikon d810
MRU3C6	Photography	one latent print image was obtained from Section B on Item #3 after developing with DFO and viewing under a Forensic Light Source a second image was obtained from Section B on Item #3 after developing with Ninhydrin (Petroleum Ether)
MUE8QU	[No Methods Reported.]	No ridge detail was developed.
MVPZDG	Photography	Photographic fixation is made by using general shots, close-up with and without metric witness and close-up, using a macro and tripod lens.
MW3EN	Photography	Print was photographed under 532nm light via forensic laser and orange filter.
MXZTHH	Photography	Nikon camera/software. Upload photos to ADAMS. Photoshop through ADAMS

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
MYQ2LR	Photography	The item was then photographed using the DCS5. Enhancement of the very light ridge detail located in Quadrant B was attempted. After approximately 40 minutes and several methods on the DCS5, the attempt was unsuccessful to enhance the ridge detail. A regular photograph without enhancement of the item was also attempted using the DCS5, but the ridge detail was not able to be seen in the photograph. No latent print was ultimately recovered for this item.
MZZ9MY	Photography	
N2VXG	Photography	Any suitable marks developed throughout sequential treatment were marked up and photographed 1:1 using a D810 Nikon digital camera with an AF-5 micro nikkor 105mm lens, 8x4 Crime Lite light source(s) and appropriate camera filter(s). The camera is linked to DCS5 (Digital Capture System 5) software where the images are exhibited with full audit trails and further DCS5 enhancement tools can be used to improve contrast/remove background interference where applicable. Exhibited images then submitted to the Fingerprint Bureau for further analysis and comparison.
NCCQ39	Scanning	For Ninhydrin, I placed item 3 onto scanner 13 in the Crime Scene unit (Epson scanner) and scanned the item.
	Scanning	For Physical Developer, I placed item 3 onto scanner 13 in the Crime Scene unit (Epson scanner) and scanned the item.
NEKY8M	Photography	Photographed after Indanedione with ALS and orange filter
NEMNE6	Photography	
NG3BXC	Photography	Digital capture (DCS 5) after DFO at 490 nm (Polilight PL500), filter OG550. Digital capture (Nikon D300) after ninhydrin in the white light.
NHYJ7V	Photography	The method used to preserve the evidence: Photography: Nikon D 850 camera. Image Quality: Tiff.
NQEFWN	Photography	Orange lens cover used for photography with 520nm Dual 77 laser at 1,2-Indanedione step.
NY8NHE	Photography	Photographs taken after indandione and ninhydrin steps. Dual 77 Laser 520 nm was used for indandione photograph. Mini-Crimescope White Light was used for ninhydrin photograph.
P33NBG	Photography	The fingerprint was photographed at every step of a research.
P3H67A	Scanning	Developed latent print was digitally scanned at 1200 resolution in RGB mode. It was then converted to grayscale and adjusted utilizing the Curves feature in PhotoShop in order to distinguish the friction ridge details.
PE2FZU	Scanning	Faint purple print noted in square "B". The print had insufficient detail and clarity for photograph, therefore, none taken. Item photocopied after processing.
PEVAD6	Photography	Photography with scale
PG4DBM	Photography	Digital Camera
PGLBG8	Photography	Used Nikon camera.

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
PHY3BA	Photography	Imprint photographed using Canon camera approx 2 hours
PLWKPP	Photography	The developed latent print was photographed using a digital camera with an orange filter and a metric scale.
PREY6F	Photography	DCS5 System
PVHMQX	Photography	
Q3ZH67	Photography	It was preserved by photo
Q4U4YX	Photography	Lens Nikon AF Micro Nikkor 60 mm, light appropriate to the method used - withe, blue light.
Q9KGXZ	Photography	Used Nikon camera.
QADE77	Photography Scanning	1200 tiff
QEQCGZ	Photography	The fingerprint was preserved through photographs. The fingerprint was almost not seen.
QFNKMY	Photography	
QM9GVU	Photography	Photographed latent print to scale
QQ8RQU	Photography	Photographed latent print observed on Quadrant B of Lab Item 3.
QX8CQ4	Photography	green light 495nm orange filter 529nm
R4RPA4	[No Methods Reported.]	No prints observed.
R6FAUD	Photography	green light with red filter (LP600)
R8AXCA	Photography	
RAU26Z	Photography	
RBQC6A	Photography	
RDFMXN	Photography	Captured images with a Canon EOS Rebel T6i camera
RE9L7U	Photography Digital adjustments	Digital camera Nikon D750, Nikkor 105 mm. White light Processed in Adobe Photoshop CS
RGEYUN	Photography	
RKCM9A	Photography	Print was recovered after ninhydrin. Print photographed and burned to a CD.
RKFZZC	Photography	Item 3 (Quad B)

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
RNUML4	Photography	The latent print was photographed to save it.
RUK2BB	Photography	Given the nature of Ninhydrin we documented the latent print through photography, making sure to see the grooves and its characteristics. So they could be submitted for further analysis.
T2DVG9	None	
TA9QLX	Photography	Digital Camera
TARBUC	Scanning	
TAUZ2U	Photography	Photographed with 532 nm Laser, orange filter and scale Assigned image Item 1-3
TH6JXY	Photography	
TXZY76	Scanning	Epson scan software; Epson Perfection V800 at 1200dpi; saved as TIF.
TZKVQP	Photography	1 photo after DFO. with Red Tiffen filter on camera @ 530nm
U6V4RT	Photography	Would have used photography if evidence had been part of real casework.
U9TUQD	Photography	Digitally captured using a Nikon D810 with a 105mm lens.
UEGALC	Photography	
UNPXX4	Submission	Evidence placed back into original packaging to be submitted to the latent print unit for further examination.
UPX4RD	Photography	Digital photography with measure tape.
UR3TV8	Photography	
UR4J7W	Photography	By means of photography a spot was located and by means of a ruler and an analysis quality photo.
UR87J4	Photography	I took a photo of the impression and preserved this by photo.
UT2RCU	Photography	The fingerprint was photographed at every stage of research after disclosure.
UT4GJD	Photography	Ridge detail was very faint with visual examination, with normal case work photographs would not be taken of the ridge detail. Would use a macro lens to photograph.
UUBYFM	Photography	Macro camera lens (Nikon D3300).The photo of the latent print is archived in the AFIS database of fingerprints. The photo of the latent print is archived in the AFIS database of fingerprints.
UXDV6H	Photography	photographed under a forensic laser.
UYMXVM	Photography	1,2- Indanedione Ninhydrin

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
VBCBFC	Photography	
VUBCHA	Photography	
W3AUM	Photography	DSLR camera.
WWAL7	None	
W64ZA3	Scanning	The latent print was captured electronically using an EPSON Expression 11000XL scanner at 1200 dpi.
W8C47Z	Photography	The item was photographed using a Nikon FTZ camera with a AF-S Micro Nikkor 105mm 1:28G ED Lens, mounted to an adjustable column. The resolution was adjusted greater than 1000 pixels per inch for comparison quality. The area was focused using a prepared template that show the maximum image area for the camera. A scale was used to document Case Number, Item Number, Process Used, Date of Photograph, and Initialed. Photographs were subsequently uploaded to the [Laboratory] Latent Print Image Server.
	Scanning	The item was scanned using a scanner set to a resolution of 1200 pixels per square inch for comparison quality. A scan was subsequently uploaded to the [Laboratory] Latent Print Image Server.
WAJRZW	Scanning	Item scanned
	Photography	Item photographed during DFO and Ninhydrin
WKZE8C	Photography	IND: Green light orange/red filter on camera
WLU3NL	Photography	Latent evidence visible. CD created containing latent photos.
WPUDJL	Photography	Photographed with and without a scale.
WQ4FAQ	Photography	
WU69H4	Photography	Photography after cyanoacrylate processing.
WVG44V	Photography	
WWEE2J	Photography	After Indanedione
WWTXQN	Photography	
XBUMN9	[No Methods Reported.]	No sufficient ridge detail was developed.
XU3Y4C	Photography	Camera A
XVFLMC	Photography	Green laser at 532nm and orange filter after indanedione with ZnCl in petroleum ether.
XYEVXE	Photography	Examination quality photograph captured of RD developed in quadrant B.

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
Y2DQW8	[No Methods Reported.]	No sufficient ridge detail was developed.
Y8MZYA	Photography	Nikon D7000, ALS (Crimescope) 515nm orange and FF1 filters for IND image
YBKLL7	Photography	
YEN4CM	photocopy Photography	
YFHP8Y	Scanning	Scanned with a scale that included the case number, date, item number, process used, and my initials. Scanner per process: NIN: 1 image taken with CSU - Scanner 13 on 6/9/2022.
YGBMDK	[No Methods Reported.]	No ridge detail observed or recovered
YH6M44	Photography	Canon EOS 5D, Ultrasonic 100mm 1:2,8 DG Macro with red filter and Crime Lite 42S (Blue 420-470 nm, Green 480-560 nm).
YJFHU3	Photography	The print was photographed with a scale and burned to a disc.
YJG86Q	Photography	Laser 532nm, OCB Filter (impression documented)
YQXL4Q	Photography	The print was photographed with a DSLR camera after each of the following processing steps: DFO and Ninhydrin. Specific information per each development step: -DFO: used a Rofin Polilight PL500 with an orange filter on the camera lens -Ninhydrin: used a Crime-Lite2 (white)
YT8NX2	[No Methods Reported.]	Repackaged in original container. No latent prints developed
YUZL79	Lifting	ADAMS
YVCEZB	Photography	Item was placed into Temporary Locker overnight for print(s) to develop. On 06/17/2022, the item was transferred "in-analysis", visually examined, and treated with the Ninhydrin chemical a second time. Once item was air dried, item was then treated with stream using an "up & down" motion. On 06/23/2022, the item was once again transferred "in-analysis" and documented using photography. Overall, midrange, and an extreme close-up of the print were photographed. Print was then enhanced using Photoshop and entered into the Traq System.
YWPXYL	Photography	Images saved in JPG and RAW at 1000 dpi, and transferred to a DVD.
Z7D2R8	No latent ridge detail revealed	No methods were used for preservation due to no latent ridge detail revealed.
ZELVMZ	[No Methods Reported.]	latent print left on paper to be submitted to latent print section for further analysis.
ZEZ93W	Photography	Was photographed with a Nikon D7500 camera.

TABLE 3 - Item 3

WebCode	Preservation Methods	Method Details
ZFDTU7	Photography FORAY ADAMS	Camera (NIKON D810) Photoshop via FORAY ADAMS
ZG36MK	Photography	
ZH36P7	Photography	Photo Evidence Scale
ZHYRX4	Photography	Foster & Freeman crime-Lite 42S green (480 – 560 nm) light source, using yellow filter
ZNQPV8	Photography	Photo with Nikon D7000 camera with macro lens.
ZR4M8Z	Photography	Three digital photographs of latent impression from quadrant B of the blue paper were stored on a compact disc.
ZWG9BZ	Photography	Foster&Freeman DCS5 - 530nm with orange filter, white light

Item 3 - Preservation Response Summary

Participants: 268

Methods Utilized

Lifting	4
Photography	221
Scanning	26

****Note:** Methods listed are the preloaded options for selection via the CTS Portal and do not reflect all answers provided by participants.

First-Level Detail Findings

TABLE 4 - Item 1

First Level Pattern(s)?		First Level Pattern(s)?	
WebCode	Arch Loop Whorl	WebCode	Arch Loop Whorl
229XB6	N/A	3XAVQ2	✓
233UBY		3YETTG	N/A
237988		3ZDTXN	N/A
24VJZL	N/A	47XDFU	N/A
29PMKD	N/A	4CHH33	N/A
29QCRV	N/A	4EQL2K	N/A
2HZMDT		4NTTUY	N/A
2KG724	N/A	68PPVU	N/A
2KZ4HA	Not Suitable	69YJQT	✓
2QPLX7		6AAKB8	✓
2RJBXU	N/A	6FGUX3	N/A
2TU9BB		6GA3PJ	✓
3242WQ		6NL9DA	N/A
34QML8		6PMYNX	N/A
3AEBHY		6QWYQK	N/A
3AKBRE		6ZMHAY	✓
3BD9YL		783GLP	✓
3ER789	N/A	7BFCU8	✓
3KYFU6		7DQ6Y8	✓
3LU43R	N/A	7QCPBN	N/A
3MM3BY		7QGUYD	N/A
3N2BJY	N/A	7R6DW6	N/A
3PCD4C		7TFH89	N/A
3RZMFY	N/A		

TABLE 4 - Item 1

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
7XFJFH				✓	ARXHNV				✓
7Y7RFK				✓	AT8GQQ				✓
88A9JW	N/A				ATR9UA	N/A			
88FCK3			✓		AVC3M4				✓
88WLFN	N/A				AVETV8				✓
8AHJFZ				✓	AZAHGK	N/A			
8U9TH2				✓	B79B4K	N/A			
928CHB	N/A				BT46XT	N/A			
96MZ39	N/A				BUYWU				✓
9EPAEY				✓	BVTJDQ				✓
9EUL3V	Not Suitable				BWKTCX	N/A			
9J8DHN	N/A				BX4ATL	N/A			
9KUBFT				✓	C6EX6Y	N/A			
9KXN8W				✓	CD4RUG				✓
9KZBNA				✓	CEHCMR	N/A			
9LTAWG				✓	CEHE8P				✓
9M7Y4Z				✓	CK8PNF	N/A			
9TX2DQ	Not Suitable				CNRL8Y	N/A			
9U29EW	N/A				CQDL8E	N/A			
9VHXT6				✓	CWLR4L	N/A			
9VKM39				✓	CZXR4J	N/A			
9WTTJ3				✓	D36EBV	N/A			
ABQ7BJ	N/A				D4FA2U				✓
ABRWL9				✓	D8UWML	N/A			
AQLLJQ	N/A								

TABLE 4 - Item 1

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
D9R8KA				✓	FJHQZR	N/A			
DEXTGK	N/A				FJRRJ6	N/A			
DG673R	N/A				FKUA2N				✓
DHYULN				✓	FM76MG	N/A			
DJRTUU				✓	FNWCLJ	Not Suitable			
DN4VKW	N/A				FPNDLF	N/A			
DQCVWQ				✓	GA4HJP				✓
DVHT2N	N/A				GFF29J	N/A			
E3YJ6V				✓	GJ3QG3	N/A			
EAGUEP	N/A				GKCVUQ				✓
ELWM6K	N/A				GKWCCE				✓
ELWZBD	N/A				GLNKAW				✓
EQ678J				✓	GMZAGF	N/A			
EVF4QZ				✓	GNQK89	N/A			
F4P3LM	N/A				GPHHFF	N/A			
F4QTWB	N/A				GUCF7R	N/A			
F6ZZY4				✓	GV6DEX	N/A			
F8ULVG	N/A				GZHCQR				✓
FB97VB				✓	H34BNL	N/A			
FBAW7Y				✓	H82MUK				✓
FBPHDF	N/A				H82PBC				✓
FCFPDJ	N/A				H84CUB	N/A			
FENQNH	N/A				HEK38P				✓
FENQUJ				✓	HJRLCA	N/A			
FFLZM2	N/A								

TABLE 4 - Item 1

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
HNPZ47	N/A				KXQZUJ			✓	
HPJNKF	N/A				LFX2TA	N/A			
HQBMWT	N/A				LRH4JG			✓	
HR2WJF	N/A				LRVRMU	N/A			
HTY8CX	N/A				LTB2RN	N/A			
HU9EFQ	N/A				LUZE8L			✓	
HV8D36				✓	LYCBXG	N/A			
HWJ383	N/A				M47KPU			✓	
HWMQPG	N/A				M8GRYL	N/A			
HY8L6U	N/A				MFHRNF			✓	
HY9CFH				✓	MG93CM			✓	
HZJE43	N/A				MH6DCW	N/A			
J7KVCM	N/A				ML8A4C	N/A			
J8WU6B				✓	MRU3C6	N/A			
J9U3DU				✓	MUE8QU	N/A			
JVZQUP				✓	MVPZDG	N/A			
K7K8DN	N/A				MV3EN	N/A			
KDVHFN				✓	MXZTHH	N/A			
KERUEW				✓	MYQ2LR	N/A			
KJ4X8K				✓	MZZ9MY	N/A			
KKZKFH	N/A				N2VXG			✓	
KRZWH7	N/A				NCCQ39	N/A			
KUN7UT	N/A				NEKY8M			✓	
KWCU2L				✓	NEMNE6			✓	
KXNF3A	N/A								

TABLE 4 - Item 1

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
NG3BXC				✓	R6FAUD				✓
NHYJ7V	N/A				R8AXCA	N/A			
NQEFWN				✓	RAU26Z	N/A			
NY8NHE				✓	RBQC6A				✓
P33NBG				✓	RDFMXN				✓
P3H67A				✓	RE9L7U	N/A			
PE2FZU	N/A				REPM2A			✓	✓
PEVAD6				✓	RGEYUN				✓
PG4DBM				✓	RKCM9A				✓
PGLBG8	Not Suitable				RKFZZC				✓
PHY3BA	N/A				RNUML4	N/A			
PK79WB				✓	RUK2BB	N/A			
PLWKPP				✓	T2DVG9				✓
PREY6F				✓	TA9QLX				✓
Q3ZH67	N/A				TARBUC				✓
Q4U4YX				✓	TAUZ2U				✓
Q9KGXZ	Not Suitable				TH6JXY	N/A			
QADE77	N/A				TRVZVF	N/A			
QC3QV4	N/A				TXZY76				✓
QEQCGZ	N/A				TZKVQP	N/A			
QFNKMY				✓	U6V4RT				✓
QM9GVU	N/A				U9TUQD				✓
QQ8RQU	N/A				UEGALC				✓
QX8CQ4				✓	UNPXK4				✓
R4RPA4	N/A								

TABLE 4 - Item 1

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
UPX4RD	N/A				WVG44V				✓
UR3TV8				✓	WWEE2J				✓
UR4J7W	N/A				WWTXQN	N/A			
UR87J4	N/A				XBUMN9	N/A			
UT2RCU				✓	XTQCFW	N/A			
UT4GJD				✓	XU3Y4C	N/A			
UUBYFM				✓	XVFLMC				✓
UXDV6H	N/A				XYEVXE				✓
UYMXVM				✓	Y2DQW8	N/A			
VBCBFC				✓	Y8MZYA				✓
VUBCHA	N/A				YBKLL7				✓
VV3AUM	N/A				YEN4CM	N/A			
VVWAL7				✓	YFHP8Y	N/A			
W64ZA3				✓	YGBMDK				✓
W8C47Z	N/A				YH6M44	N/A			
WAJRZW	N/A				YJFHU3	N/A			
WDG9EB				✓	YJG86Q				✓
WDX3FK				✓	YQXL4Q				✓
WKZE8C	N/A				YT8NX2	N/A			
WLQPWJ	N/A				YUZL79	N/A			
WLTE32	N/A				YVCEZB	N/A			
WLU3NL	Not Suitable				YWPXYL				✓
WPUDJL				✓	Z7D2R8	N/A			
WQ4FAQ				✓	ZELVMZ	N/A			
WU69H4				✓					

TABLE 4 - Item 1

WebCode	First Level Pattern(s)?			WebCode	First Level Pattern(s)?		
	Arch	Loop	Whorl		Arch	Loop	Whorl
ZEZ93W	N/A						
ZFDTU7			✓				
ZG36MK			✓				
ZH36P7			✓				
ZHYRX4	N/A						
ZNQPV8			✓				
ZQBPYU	N/A						
ZR4M8Z			✓				
ZWG9BZ			✓				

Item 1 - Pattern Response Summary						Total Participants: 303
1st Level	Arch	Loop	Whorl	Not Suitable	N/A	
Total	0	2	140	7	153	
*NOTE: These numbers may not add up to the total # of participants, as a participant may have selected more than one pattern option.						

TABLE 4 - Item 2

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
229XB6	N/A				3YETTG	N/A			
233UBY			✓		3ZDTXN	N/A			
237988			✓		47XDFU	N/A			
24VJZL	N/A				4CHH33	N/A			
29PMKD	N/A				4EQL2K	N/A			
29QCRV	N/A				4NTTUY	N/A			
2HZMDT			✓		68PPVU	N/A			
2KG724	N/A				69YJQT			✓	✓
2KZ4HA			✓		6AAKB8			✓	
2QPLX7			✓		6FGUX3	N/A			
2RJBXU	N/A				6GA3PJ			✓	
2TU9BB			✓		6NL9DA	N/A			
3242WQ			✓		6PMYNX	N/A			
34QML8			✓		6QWYQK	N/A			
3AEBHY			✓		6ZMHAY	Not Suitable			
3AKBRE			✓		783GLP			✓	
3BD9YL			✓		7BFCU8			✓	
3ER789	N/A				7DQ6Y8			✓	
3KYFU6			✓		7QCPBN	N/A			
3LU43R	N/A				7QGUYD	N/A			
3MM3BY			✓	✓	7R6DW6	N/A			
3N2BJY	N/A				7TFH89	N/A			
3PCD4C		✓			7XFJFH			✓	
3RZMFY	N/A				7Y7RFK			✓	
3XAVQ2			✓						

TABLE 4 - Item 2

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
88A9JW	N/A				ATR9UA	N/A			
88FCK3	Not Suitable				AVC3M4			✓	
88WLFN	N/A				AVETV8			✓	
8AHJFZ			✓		AZAHGK	N/A			
8U9TH2	N/A				B79B4K	N/A			
928CHB	N/A				BT46XT	N/A			
96MZ39	N/A				BUYVWU			✓	
9EPAEY			✓		BVTJDQ			✓	
9EUL3V	Not Suitable				BWKTCX	N/A			
9J8DHN	N/A				BX4ATL	N/A			
9KUBFT			✓		C6EX6Y	N/A			
9KXN8W			✓		CD4RUG	Not Suitable			
9KZBNA			✓		CEHCMR	N/A			
9LTAWG	Not Suitable				CEHE8P	Not Suitable			
9M7Y4Z			✓		CK8PNF	N/A			
9TX2DQ	Not Suitable				CNRL8Y	N/A			
9U29EW	N/A				CQDL8E	N/A			
9VHXT6			✓		CWLR4L	N/A			
9VKM39			✓		CZXR4J	N/A			
9WTTJ3			✓		D36EBV	N/A			
ABQ7BJ	N/A				D4FA2U			✓	
ABRWL9			✓		D8UWML	N/A			
AQLLJQ	N/A				D9R8KA			✓	
ARXHNV			✓		DEXTGK	N/A			
AT8GQQ			✓	✓					

TABLE 4 - Item 2

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
DG673R	N/A				FKUA2N			✓	
DHYULN			✓		FM76MG	N/A			
DJRTUU			✓		FNWCLJ	Not Suitable			
DN4VKW	N/A				FPNDLF	N/A			
DQCVWQ			✓		GA4HJP			✓	
DVHT2N	N/A				GFF29J	N/A			
E3YJ6V			✓		GJ3QG3	N/A			
EAGUEP	N/A				GKCVUQ			✓	
ELWM6K	N/A				GKWCCE			✓	
ELWZBD	N/A				GLNKAW			✓	
EQ678J			✓		GMZAGF	N/A			
EVF4QZ			✓	✓	GNQK89	N/A			
F4P3LM	N/A				GPHHFF	N/A			
F4QTWB	N/A				GUCF7R	N/A			
F6ZZY4			✓		GV6DEX	N/A			
F8ULVG	N/A				GZHCQR			✓	
FB97VB			✓		H34BNL	Not Suitable			
FBAW7Y	Not Suitable				H82MUK	Not Suitable			
FBPHDF	N/A				H82PBC			✓	
FCFPDJ	N/A				H84CUB	N/A			
FENQNH	N/A				HEK38P	Not Suitable			
FENQUJ	Not Suitable				HJRLCA	N/A			
FFLZM2	N/A				HNPZ47	N/A			
FJHQZR	N/A				HPJNKF	N/A			
FJJRJ6	N/A								

TABLE 4 - Item 2

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
HQBMWT	N/A				LRH4JG			✓	
HR2WJF	N/A				LRVRMU	N/A			
HTY8CX	N/A				LTB2RN	N/A			
HU9EFQ	N/A				LUZE8L			✓	
HV8D36			✓		LYCBXG	N/A			
HWJ383	N/A				M47KPU			✓	
HWMQPG	N/A				M8GRYL	N/A			
HY8L6U	N/A				MFHRNF			✓	
HY9CFH			✓	✓	MG93CM			✓	
HZJE43	N/A				MH6DCW	N/A			
J7KVCM	N/A				ML8A4C	N/A			
J8WU6B			✓		MRU3C6	N/A			
J9U3DU	Not Suitable				MUE8QU	N/A			
JVZQUP			✓	✓	MVPZDG	N/A			
K7K8DN	N/A				MV3EN	N/A			
KDVHFN			✓		MXZTHH	N/A			
KERUEW			✓	✓	MYQ2LR	N/A			
KJ4X8K			✓	✓	MZZ9MY	N/A			
KKZKFH	N/A				N2WXG		✓	✓	
KRZWH7	N/A				NCCQ39	N/A			
KUN7UT	N/A				NEKY8M		✓		
KWCU2L			✓		NEMNE6		✓		
KXNF3A	N/A				NG3BXC		✓		
KXQZUJ			✓	✓	NHYJ7V	N/A			
LFX2TA	N/A								

TABLE 4 - Item 2

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
NQEFWN			✓		RAU26Z	N/A			
NY8NHE			✓	✓	RBQC6A			✓	
P33NBN			✓		RDFMXN			✓	
P3H67A			✓		RE9L7U	N/A			
PE2FZU	N/A				REPM2A			✓	
PEVAD6			✓		RGEYUN			✓	
PG4DBM			✓		RKCM9A			✓	
PGLBG8	Not Suitable				RKFZZC			✓	
PHY3BA	N/A				RNUML4	N/A			
PK79WB			✓		RUK2BB	N/A			
PLWKPP			✓		T2DVG9			✓	✓
PREY6F			✓		TA9QLX			✓	
Q3ZH67	N/A				TARBUC			✓	
Q4U4YX			✓		TAUZ2U			✓	
Q9KGXZ	Not Suitable				TH6JXY	N/A			
QADE77	N/A				TRVZVF	N/A			
QC3QV4	N/A				TXZY76			✓	✓
QEQCGZ	N/A				TZKVQP	N/A			
QFNKMY			✓		U6V4RT	Not Suitable			
QM9GVU	N/A				U9TUQD			✓	
QQ8RQU	N/A				UEGALC			✓	
QX8CQ4			✓		UNPXK4			✓	
R4RPA4	N/A				UPX4RD	N/A			
R6FAUD			✓		UR3TV8			✓	
R8AXCA	N/A								

TABLE 4 - Item 2

WebCode	First Level Pattern(s)?			WebCode	First Level Pattern(s)?		
	Arch	Loop	Whorl		Arch	Loop	Whorl
UR4J7W	N/A			WWTXQN	N/A		
UR87J4	N/A			XBUMN9	N/A		
UT2RCU		✓		XTQCFW	N/A		
UT4GJD		✓		XU3Y4C	N/A		
UUBYFM		✓		XVFLMC		✓	
UXDV6H	N/A			XYEVXE		✓	
UYMXVM	✓			Y2DQW8	N/A		
VBCBFC		✓		Y8MZYA		✓	✓
VUBCHA	N/A			YBKLL7	Not Suitable		
W3AUM	N/A			YEN4CM	N/A		
VWAL7		✓	✓	YFHP8Y	N/A		
W64ZA3		✓	✓	YGBMDK		✓	
W8C47Z	N/A			YH6M44	N/A		
WAJRZW	N/A			YJFHU3	N/A		
WDG9EB		✓		YJG86Q		✓	✓
WDX3FK		✓		YQXL4Q		✓	
WKZE8C	N/A			YT8NX2	N/A		
WLQPWJ	N/A			YUZL79	N/A		
WLTE32	N/A			YVCEZB	N/A		
WLU3NL	Not Suitable			YWPXYL		✓	
WPUDJL		✓		Z7D2R8	N/A		
WQ4FAQ		✓	✓	ZELVMZ	N/A		
WU69H4		✓	✓	ZEZ93W	N/A		
WVG44V	Not Suitable			ZFDTU7		✓	
WWEE2J		✓					

TABLE 4 - Item 2

WebCode	First Level Pattern(s)?			WebCode	First Level Pattern(s)?		
	Arch	Loop	Whorl		Arch	Loop	Whorl
ZG36MK		✓					
ZH36P7		✓					
ZHYRX4	N/A						
ZNQPV8		✓					
ZQBPYU	N/A						
ZR4M8Z	Not Suitable						
ZWG9BZ		✓					

Item 2 - Pattern Response Summary						Total Participants: 303
1st Level	Arch	Loop	Whorl	Not Suitable	N/A	
Total	3	125	18	21	153	
<p><i>*NOTE: These numbers may not add up to the total # of participants, as a participant may have selected more than one pattern option.</i></p>						

TABLE 4 - Item 3

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
229XB6	N/A				3YETTG	N/A			
233UBY				✓	3ZDTXN	N/A			
237988				✓	47XDFU	N/A			
24VJZL	N/A				4CHH33	N/A			
29PMKD	N/A				4EQL2K	N/A			
29QCRV	N/A				4NTTUY	N/A			
2HZMDT	N/A				68PPVU	N/A			
2KG724	N/A				69YJQT				✓
2KZ4HA	Not Suitable				6AAKB8				✓
2QPLX7				✓	6FGUX3	N/A			
2RJBXU	N/A				6GA3PJ	N/A			
2TU9BB				✓	6NL9DA	N/A			
3242WQ				✓	6PMYNX	N/A			
34QML8				✓	6QWYQK	N/A			
3AEBHY				✓	6ZMHAY				✓
3AKBRE	Not Suitable				783GLP	Not Suitable			
3BD9YL				✓	7BFCU8				✓
3ER789	N/A				7DQ6Y8				✓
3KYFU6				✓	7QCPBN	N/A			
3LU43R	N/A				7QGUYD	N/A			
3MM3BY				✓	7R6DW6	N/A			
3N2BJY	N/A				7TFH89	N/A			
3PCD4C				✓	7XFJFH				✓
3RZMFY	N/A				7Y7RFK				✓
3XAVQ2				✓					

TABLE 4 - Item 3

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
88A9JW	N/A				ATR9UA	N/A			
88FCK3	Not Suitable				AVC3M4	Not Suitable			
88WLFN	N/A				AVETV8	Not Suitable			
8AHJFZ				✓	AZAHGK	N/A			
8U9TH2				✓	B79B4K	N/A			
928CHB	N/A				BT46XT	N/A			
96MZ39	N/A				BUYVWU				✓
9EPAEY				✓	BVTJDQ				✓
9EUL3V	Not Suitable				BWKTCX	N/A			
9J8DHN	N/A				BX4ATL	N/A			
9KUBFT				✓	C6EX6Y	N/A			
9KXN8W				✓	CD4RUG				✓
9KZBNA				✓	CEHCMR	N/A			
9LTAWG				✓	CEHE8P				✓
9M7Y4Z				✓	CK8PNF	N/A			
9TX2DQ	Not Suitable				CNRL8Y	N/A			
9U29EW	N/A				CQDL8E	N/A			
9VHXT6				✓	CWLR4L	N/A			
9VKM39	Not Suitable				CZXR4J	N/A			
9WTTJ3				✓	D36EBV	N/A			
ABQ7BJ	N/A				D4FA2U				✓
ABRWL9				✓	D8UWML	N/A			
AQLLJQ	N/A				D9R8KA				✓
ARXHNV				✓	DEXTGK	N/A			
AT8GQQ				✓					

TABLE 4 - Item 3

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
DG673R	N/A				FKUA2N				✓
DHYULN	Not Suitable				FM76MG	N/A			
DJRTUU				✓	FNWCLJ	Not Suitable			
DN4VKW	N/A				FPNDLF	N/A			
DQCVWQ				✓	GA4HJP	N/A			
DVHT2N	N/A				GFF29J	N/A			
E3YJ6V				✓	GJ3QG3	N/A			
EAGUEP	N/A				GKCVUQ				✓
ELWM6K	N/A				GKWCCE	Not Suitable			
ELWZBD	N/A				GLNKAW				✓
EQ678J				✓	GMZAGF	N/A			
EVF4QZ				✓	GNQK89	N/A			
F4P3LM	N/A				GPHHFF	N/A			
F4QTWB	N/A				GUCF7R	N/A			
F6ZZY4				✓	GV6DEX	N/A			
F8ULVG	N/A				GZHCQR				✓
FB97VB				✓	H34BNL	N/A			
FBAW7Y				✓	H82MUK	Not Suitable			
FBPHDF	N/A				H82PBC	Not Suitable			
FCFPDJ	N/A				H84CUB	N/A			
FENQNH	N/A				HEK38P				✓
FENQUJ	Not Suitable				HJRLCA	N/A			
FFLZM2	N/A				HNPZ47	N/A			
FJHQZR	N/A				HPJNKF	N/A			
FJJRJ6	N/A								

TABLE 4 - Item 3

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
HQBMWT	N/A				LRH4JG			✓	
HR2WJF	N/A				LRVRMU	N/A			
HTY8CX	N/A				LTB2RN	N/A			
HU9EFQ	N/A				LUZE8L	Not Suitable			
HV8D36				✓	LYCBXG	N/A			
HWJ383	N/A				M47KPU			✓	
HWMQPG	N/A				M8GRYL	N/A			
HY8L6U	N/A				MFHRNF			✓	
HY9CFH				✓	MG93CM		✓		
HZJE43	N/A				MH6DCW	N/A			
J7KVCM	N/A				ML8A4C	N/A			
J8WU6B				✓	MRU3C6	N/A			
J9U3DU	Not Suitable				MUE8QU	N/A			
JVZQUP				✓	MVPZDG	N/A			
K7K8DN	N/A				MV3EN	N/A			
KDVHFN				✓	MXZTHH	N/A			
KERUEW	Not Suitable				MYQ2LR	N/A			
KJ4X8K				✓	MZZ9MY	N/A			
KKZKFH	N/A				N2WXG			✓	
KRZWH7	N/A				NCCQ39	N/A			
KUN7UT	N/A				NEKY8M			✓	
KWCU2L				✓	NEMNE6			✓	
KXNF3A	N/A				NG3BXC			✓	
KXQZUJ	Not Suitable				NHYJ7V	N/A			
LFX2TA	N/A								

TABLE 4 - Item 3

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
NQEFWN				✓	RAU26Z	N/A			
NY8NHE				✓	RBQC6A	Not Suitable			
P33NBG				✓	RDFMXN	Not Suitable			
P3H67A				✓	RE9L7U	N/A			
PE2FZU	N/A				REPM2A	Not Suitable			
PEVAD6					RGEYUN				✓
PG4DBM				✓	RKCM9A				✓
PGLBG8	Not Suitable				RKFZZC				✓
PHY3BA	N/A				RNUML4	N/A			
PK79WB	N/A				RUK2BB	N/A			
PLWKPP				✓	T2DVG9				✓
PREY6F				✓	TA9QLX	Not Suitable			
Q3ZH67	N/A				TARBUC				✓
Q4U4YX				✓	TAUZ2U				✓
Q9KGXZ	Not Suitable				TRVZVF	N/A			
QADE77	N/A				TXZY76				✓
QC3QV4	N/A				TZKVQP	N/A			
QEQCGZ	N/A				U6V4RT	Not Suitable			
QFNKMY				✓	U9TUQD				✓
QM9GVU	N/A				UEGALC				✓
QQ8RQU	N/A				UNPXK4	Not Suitable			
QX8CQ4				✓	UPX4RD	N/A			
R4RPA4	N/A				UR3TV8				✓
R6FAUD				✓	UR4J7W	N/A			
R8AXCA	N/A								

TABLE 4 - Item 3

WebCode		First Level Pattern(s)?			WebCode		First Level Pattern(s)?		
		Arch	Loop	Whorl			Arch	Loop	Whorl
UR87J4	N/A				XBUMN9	N/A			
UT2RCU				✓	XTQCFW	N/A			
UT4GJD	Not Suitable				XU3Y4C	N/A			
UUBYFM				✓	XVFLMC				✓
UXDV6H	N/A				XYEVXE				✓
UYMXVM				✓	Y2DQW8	N/A			
VBCBFC				✓	Y8MZYA				✓
VUBCHA	N/A				YBKLL7			✓	
VV3AUM	N/A				YEN4CM	N/A			
VWAL7				✓	YFHP8Y	N/A			
W64ZA3				✓	YGBMDK	Not Suitable			
W8C47Z	N/A				YH6M44	N/A			
WAJRZW	N/A				YJFHU3	N/A			
WDG9EB	N/A				YJG86Q				✓
WDX3FK	Not Suitable				YQXL4Q				✓
WKZE8C	N/A				YUZL79	N/A			
WLQPWJ	N/A				YVCEZB	N/A			
WLTE32	N/A				YWPXYL				✓
WLU3NL	Not Suitable				Z7D2R8	N/A			
WPUDJL				✓	ZELVMZ	N/A			
WQ4FAQ				✓	ZEZ93W	N/A			
WU69H4				✓	ZFDTU7	N/A			
WVG44V				✓	ZG36MK				✓
WWEE2J				✓	ZH36P7				✓
WWTXQN	N/A								

TABLE 4 - Item 3

WebCode	First Level Pattern(s)?			WebCode	First Level Pattern(s)?		
	Arch	Loop	Whorl		Arch	Loop	Whorl
ZHYRX4	N/A						
ZNQPV8	Not Suitable						
ZQBPYU	N/A						
ZR4M8Z			✓				
ZWG9BZ		✓					

Item 3 - Pattern Response Summary						Total Participants: 303
1st Level	Arch	Loop	Whorl	Not Suitable	N/A	
Total	0	4	106	32	157	
*NOTE: These numbers may not add up to the total # of participants, as a participant may have selected more than one pattern option.						

Additional Comments

TABLE 5

WebCode	Additional Comments
24VJZL	Test taken by [Name] on 8-1-2022. Some purple indicated on Item # 3 in C but no distinct ridge detail.
2KG724	The crime lab (CSI) does not make pattern determination.
3AKBRE	After processing with ninhydrin (methanol formula), Item 3 contained an extremely faint purple outline in section B but no ridge detail was visible.
3MM3BY	Item 2, wrapping paper. Could not see the core of the latent, first guess is right slant loop, but possibly a whorl
3YETTG	difficulties with Item 3. control worked without issue. However, the print was faint
3ZDTXN	print developed on item 2 (foil paper) only documented with photography and a lift was not attempted due to fragile nature of the wrapping paper. Didn't want to risk tearing or pulling apart part of the paper, in order to preserve item for NIN/DFO processing.
47XDFU	On 6/6/2021 I received a white box, closed with brown tape, marked "2022 CTS Forensic Testing Program", "TEST No. 22-5190: LATENT PRINT PROCESSING", "Sample Pack: LAP1". The contents of the box were examined on 6/27/2022. The box contains one yellow envelope, two brown envelopes and clear bubble wrap. The yellow envelope is marked "Test No. 22-5190, Item 1", and sealed with red evidence tape with "CTS" written over the seal in black marker. The brown envelopes are marked "Test No. 22-5190, Item 2" and "Test No. 22-5190, Item 3", and both are factory sealed. The envelope marked "Item 1" contains: one (1) clear sheet of soft plastic, folded in half, approximately 10" x 6.85" overall, and approximately 5" x 6.85" while folded in half, divided into four quadrants (A-D) with black marker on the inside area and a piece of brown colored cardboard. The envelope marked "Item 2" contains: one (1) piece of striped wrapping paper, blue, orange, pink and yellow colored with stripes of pink colored foil, approximately 5" x 6.5", divided into four quadrants (A-D) with black marker; the paper is taped to a piece of brown cardboard. The envelope marked "Item 3" contains: one (1) piece of blue colored paper, approximately 5" x 8.5", divided into four quadrants (A-D) in black printing.
4EQL2K	All items were photographed with and without a scale prior to latent print processing. Items 2 and 3 were individually heat sealed in clear plastic after all latent print processing/documentation was complete. All items, including one latent lift card (2A), were packaged separately with their original packaging (if applicable). On June 7, 2022, all evidence was sealed and submitted to the Evidence/Latent Print Units at approximately 2315 hours. Please note that all items were secured in CSI [Name]'s evidence locker between the time/date they were received and submitted. All photographs were uploaded to the Axon Commander server.
6PMYNX	The third item's fingerprint was weak.
6QWYQK	Area noted in quadrant B of Item 3, but exceptionally faint and unable to photograph; not suitable.
7BFCU8	Item 1 : – The fingermark was visible during visual examination before treatment (visible reflection) – The fingermark was visible after Superglue fuming treatment. A better quality of the fingermark was observed after Superglue fuming treatment (Wider area observed.) Item 2 : – Half of the fingermark was visible during visual examination before treatment (visible reflection), qualified as no value. – The fingermark was fully visible after Superglue fuming treatment. Item 3 : – The fingermark was not visible during visual examination before treatment. – The fingermark was observed after Indanedione / Zinc chloride treatment then after Ninhydrin treatment. The indanedione / Zinc chloride treatment conducted to a way better fingermark than the Ninhydrin treatment.
88A9JW	This was good test, especially item 2 was a bit challenging for the methods we used.
9LTAWG	In an actual case the visualised prints would have been secured by photography.
9VKM39	Item 3: After processing with ninhydrin, a few purple pin spots were observed inside of quadrant B, but no ridge structure was visible. Item 3 was further processed with black magnetic powder, but no ridge

TABLE 5

WebCode	Additional Comments
	structure was developed.
ATR9UA	Item 3 print was of poor quality and very faint.
AVETV8	After Ninhydrin (methanol) was used on Item 3, Item 3's impression was incredibly faint and almost indiscernible. No ridge detail was observed and only the slightest outline of a finger impression was visible in box B.
B79B4K	These skills are excellent as continuing education, putting into practice what we do every day as forensic investigators.
C6EX6Y	For Item 3: After application of DFO, no noticeable prints were present after use of ALS blue light. After two applications of Ninhydrin, no noticeable prints were present. Print later observed in Section B after looking at item with ALS for a second time (days after application of DFO).
D8UWML	Excellent proficiency test and very good exercise to refresh the process of fingerprinting development.
EQ678J	Digital processing was performed in Authenticated Digital Asset Management System (ADAMS) Web on photographs for Latent 1A-1, 1B-1, and 1C-1
FCFPDJ	Pieces of evidence presented to the Forensic Investigation Section may be examined: with the naked eye, under various light sources, or processed with liquid or solid reagents to detect the presence of fingerprints. The specific sequence of examinations and processes depends on the nature of the piece of evidence.
FFLZM2	Items 1 & 3 were pretty ordinary subjects. Item 2 made us debate and consider if there was a need to use different kinds of methods because under the print there was different kinds of surfacematerials (metallic/hologram/paper). [Participant reported information for all three items in the Item 3 methodology response section [Table 2 - Item 3: Development Methods], the Item 3 specific information was left in the appropriate section and the entire response is reproduced here: "Samples and results. Work instructions: SORM-1 Cyanoacrylate fuming, SORM-2 BasicYellow 40, SORM-3 Ninhydrin, SORM-7 Magnetic powder, SORM-10 Selection flowchart, SORM-12 Photography, SORM-13 Test prints, SORM-14. Visual examination, MUUT-11 Light sources. Item 1 (transparent polyethylene foil): Date of examination: 4.7.2022 Work instructions: SORM-14, MUUT-11, SORM-10, SORM-1, SORM-13, SORM-2, SORM-12. Visual examination: Using eyesight + light sources. In existing light, and blue light (Obelux) we could find a fingerprint on section C. In UV-light (Drimelite) no visible prints. Selection flowchart: SORM-10 Cyanoacrylate fuming: Using Foster & Freeman MVC 3000 D 3000 (time 10 minutes, humidity 80%, glue temperature 230 degrees Celcius, glue Polycyano). Test print as per work instructions. The glue stuck to test print. The print on item 1 was more visible, but fluorecense with UV-light was weak. We desided to continue with the BY40 method which clearly enhanced the print and we got a comparable fingerprint, which was photographed. Item 2 (glossy giftwrap with metallic/hologram stripes): Date of examination: 4.7.2022 Work instructions: SORM-14, MUUT-11, SORM-10, SORM-1, SORM-13, SORM-7, SORM-12 Visual examination: Using eyesight + light sources. In existing light, and UV-light (Crimelite), a fingerprint on sector A. The print was comparable and it was photographed as such using UV-light. With blue light (Obelux), no visible prints. Selection flowchart Cyanoacrylate fuming: Using Foster & Freeman MVC 3000 D 3000 (time 10 minutes, humidity 80%, glue temperature 230 degrees Celcius, glue Polycyano). Test print as per work instructions. The glue stuck to test print. In item 2 the print on section A, around the metallic/hologram stripe, become more visible, but it did not enhance significantly, fluorecense with UV-light was weak. Magnetic powder: The print was treated with magnetic powder and photographed again. The treatment made the print worse. We got the best results by photographing the print from the metallic stripe after the cyanoacrylate fuming using UV-light + filter (Baader U-filter/bandpass filter) and from the surface of the paper (outside metallic stripe) using existing light. Item 3 (light blue cypypaper): Date of examination: 4.7.2022. Work instructions: SORM-14, MUUT-11, SORM-10, SORM-3, SORM-13. Visual examination: Using eyesight + light sources. Flashlight: No visible prints or stains Ninhydrin -treatment: Item 3 is porous, evenly coloured material so we desided to use Ninhydrin treatment using NINcha M31 climatic cabinet. In the cabinet: humidity 65%, temperature 80 decrees Celsius, time 30 minutes. Test print made as per work instruktions. Test print ok. After the treatment, a visible print emerges to section B. No other prints or stains become visible by the time we write this report. The print which emerged with Ninhydrin-treatment was comparable."]

TABLE 5

WebCode	Additional Comments
FJHQZR	Prior to lifting the print was photographed in place and then lifted for further preservation.
FNWCLJ	Interesting tasks for continuing education
GPHHFF	Test performed by [Three sets of Initials].
HTY8CX	El item 3 no se procesó porque el laboratorio no cuenta con el reactivo idóneo (The item 3 did not precessing because the laboratory don't have the reagent for the surface)
KRZWH7	Developing print with Ninhydrin on Lab Item 3 was difficult, friction ridge barely visible.
LYCBXG	Pattern determinations not a part of the latent print processing workflow. This step would be a part of the analysis phase. Selected N/A for Items 1 through 3.
MVPZDG	The crime lab (CSI) does not make pattern determination.
NEKY8M	No development of latent impression on Item 3 with Oil Red O, therefore did not move on to Physical Developer step as both would develop sebaceous-like impressions.
PGLBG8	SATISFIED
Q4U4YX	Fluorescence examination was with Polilight PL 500. To preserve we used camera Nikon D610.
Q9KGXZ	Good.
RDFMXN	Item 3. Section 3-5. Ridge detail was not sufficiently recovered to determine the first level pattern. The core is not clear but the pattern appears to be a whorl.
REPM2A	No friction ridge impressions found on item 1-3. A test/control sample was completed with photographs and included in case file for DFO and Ninhydrin used on item 1-3.
RNUML4	Once the following process to develop latent print was completed: white alternating light, black magnetic powder and ninhydrin, latent print were developed.
TH6JXY	The latent print quality on item 2 and 3 (wrapping paper and copy paper) appeared to be less suitable for photography or lifting quality.
U9TUQD	[Moved from Table 3 - Item 2: Preservation Methods] "Note on question 2-5 below [Table 4: First-Level Detail Findings]: * Core not developed well, however, enhancements using Photoshop CC revealed what appears to be a RSL."
UT2RCU	During the tests we use the following equipment: - POLILIGHT PL 500 XL made by Rofin - it's a high intensity light source that emit light in a controlled spectrum centered at the labeled wavelenght 350-650 nm, white and IR. - MVC 3000 made by Foster+Freeman - it's cyanokarylate fuming chamber. - NINcha S31 made by Attestor Forensics - it's forensic climate chamber for Ninhydrin and DFO treated fingerprint evidence. - VMD 360 made by West Technology Forensics - it,s Vacum Metal Deposition chamber utilises vacuum coating technology for the thermal evaporation of metals and deposition of thin metal films.
WDX3FK	Item 3: After processing with ninhydrin a few purple pin dots were noted but no ridges inside of quadrant B. The item was further processed with black magnetic powder but no ridge structure was developed.
WLQPWJ	Item 1 was easy, ordinary subject. Item 2 was more challenging, because the print was on three different surfaces. Item 3 was in itself quite easy, everyday subject, but the print was pretty weak on contrast.
WQ4FAQ	Unable to determine if the impression developed on Item 2 was a loop or whorl therefore both patterns were checked on page 3 [Table 4: First-Level Detail Findings, Item 2] of this form.
YFHP8Y	For item 3, the print observed was very faint.
Z7D2R8	I was almost done with this written part of the scenario when the system logged me off. You cannot believe how unbelievably not happy this made me. "OH bUt YoU ShoUld hAve hiT tHE saVe BuTtON." >:/"

TABLE 5

WebCode	Additional Comments
ZG36MK	The impression on item 3 developed with Ninhydrin was very faint. Enhancement software had to be used to visualize and examine the impression.
ZH36P7	All chemicals used on items nr: 1, 2, 3 were tested on similar types of surfaces whit positive results.
ZNQPV8	Latent on Item#3 in column B was very faint and limited detail. Could not determine pattern type. Would not collect in daily casework.
ZQBPYU	Prints seen on items 1 and 2. No prints developed on item 3.

-End of Report-
(Appendix may follow)

Test No. 22-5190: Latent Print Processing - Varied Surfaces

DATA MUST BE SUBMITTED BY **Aug. 1, 2022, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: 3Y3KD4

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

Scenario:

During the week of 25 April 2022, several items of evidence were recovered from a crime scene. Police have requested that you process each item of evidence for latent prints. These items will not undergo additional testing in other departments, so you may use destructive testing if necessary.

All item packaging has been labeled with a CTS item number and each item divided into four sections, which have been indicated as A-D. A single latent print has been deposited in one of these areas for each item.

Packaging and protective material is not intended to be processed.

Items Submitted (Sample Pack LAP1):

Item 1: Folded clear polyethylene sheeting, inside area divided into sections A-D.

Item 2: Piece of foil striped wrapping paper, divided into sections A-D.

Item 3: Half sheet of blue colored copy paper, divided into sections A-D.

Please inspect your sample sets upon receipt. If the packaging of any of your individual items appears to be compromised, please contact CTS for replacement samples.

1.) For each item, in which section (A, B, C, D) was the latent ridge detail recovered?

Please indicate only the single letter of your determined location from the dropdown menu. Further explanation may be provided in the Additional Comments. If no ridge detail was recovered, please select "None." If you do not process the type of evidence offered, please select "Not Tested". *A selection of "Not Tested" for an item will lock the corresponding methodology tab for that item. No methodology data will be captured in the report for that item.*

Item 1

Item 2

Item 3

Results for Item 1:

Folded clear polyethylene sheeting, inside area divided into sections A-D.

1-1.) Date Samples Received:

1-2.) Date(s) Samples Analyzed:

1-3.) What method(s) of development were used during your examination?
Please list in order used.

Method Used

Methodology-specific information
(ex. processing time, type of dye stain)

1-4.) What method(s) of preservation were used, if any, following latent print development?
Please list in order used.

Method Used

Methodology-specific information

1-5.) What first-level pattern(s) are referenced in the recovered latent print?

If ridge detail was recovered, choose up to 2 pattern types. If ridge detail was not sufficiently recovered, please select "Not suitable for determination." If you are not trained to make pattern determinations, please select "N/A".

Arch Loop Whorl

Not suitable for determination N/A

Results for Item 2:

Piece of foil striped wrapping paper, divided into sections A-D.

2-1.) Date Samples Received:

2-2.) Date(s) Samples Analyzed:

2-3.) What method(s) of development were used during your examination?
Please list in order used.

Method Used

**Methodology-specific information
(ex. processing time, type of dye stain)**

2-4.) What method(s) of preservation were used, if any, following latent print development?
Please list in order used.

Method Used

Methodology-specific information

2-5.) What first-level pattern(s) are referenced in the recovered latent print?

If ridge detail was recovered, choose up to 2 pattern types. If ridge detail was not sufficiently recovered, please select "Not suitable for determination." If you are not trained to make pattern determinations, please select "N/A".

Arch Loop Whorl

Not suitable for determination N/A

Results for Item 3:

Half sheet of blue colored copy paper, divided into sections A-D.

3-1.) Date Samples Received:

3-2.) Date(s) Samples Analyzed:

3-3.) What method(s) of development were used during your examination?
Please list in order used.

Method Used

**Methodology-specific information
(ex. processing time, type of dye stain)**

3-4.) What method(s) of preservation were used, if any, following latent print development?
Please list in order used.

Method Used

Methodology-specific information

3-5.) What first-level pattern(s) are referenced in the recovered latent print?

If ridge detail was recovered, choose up to 2 pattern types. If ridge detail was not sufficiently recovered, please select "Not suitable for determination." If you are not trained to make pattern determinations, please select "N/A".

Arch Loop Whorl

Not suitable for determination N/A

4.) Additional Comments

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)
- This participant's data is **not** intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

Have the laboratory's designated individual complete the following steps **only if your laboratory is accredited in this testing/calibration discipline** by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory.

ANAB Certificate No.
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety.

Authorized Contact Person and Title

Laboratory Name

Location (City/State)