



Latent Print Processing - Varied Surfaces Test No. 22-5191 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 245 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 and contained one latent fingerprint. The items consisted of a piece of newsprint paper (Item 1), a plastic switch plate (Item 2), and a glossy photograph (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 plastic switch plates were cleaned with a paper towel before the latent print was applied. New, sealed packs of newsprint paper and photo paper, were used for Items 1 and 3, respectively. Each item was divided into sections 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.

Please Note: Following the return of results, it was noted that Item 3 did not reach a clear consensus thus, no results are highlighted as inconsistent.

| <u>Item No.</u> | <u>Test Material</u> | <u>Enhancer</u> | <u>Print Location</u> | <u>Pattern</u> |
|-----------------|----------------------|-----------------|-----------------------|----------------|
| 1 | Newsprint Paper | Acid | C | Loop |
| 2 | Plastic Switch Plate | Oil | B | Loop |
| 3 | Glossy Photograph | Acid & Oil | A | Whorl |

Summary Comments

Each sample pack contained three items of evidence to be processed for latent prints: a piece of newsprint paper (Item 1), a plastic switch plate (Item 2), and a glossy photograph (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 is 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 243 participants that reported results for Item 1, approximately 30% were unable to locate a print. And of the 242 participants that reported results for Item 3, approximately 71% were unable to locate a print.

The following breakdown does not include the participants who reported "Not Tested", "None", or did not provide an answer. For Item 1, 166 of 169 participants (98.7%) developed a print in section "C." Three participants reported friction ridge detail in quadrants where friction ridge detail was not expected to be seen. Seventy-four participants reported finding no friction ridge detail on Item 1. For Item 2, all 244 responding participants (100%) reported ridge detail in section "B." For Item 3, a consensus was achieved, 53 of 71 participants (74.6%) recovered ridge detail in section "A" of the photograph. For this item, 18 participants reported friction ridge detail in quadrants where ridge detail was not expected to be seen.

No correlation could be found between how participants processed Items 1 and 3 and the results they obtained. In fact, for both items, participants that reporting using the same processing methods obtained different results.

A visual examination was reported by the majority of participants as the starting point for development for all three items. For the newsprint paper (Item 1), Ninhydrin was the prevalent first method of development. For the plastic switch plate (Item 2) and the glossy photograph (Item 3), Cyanoacrylate fuming was the most common first method of development.

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 - Loop; 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 |
|---------|------------|---------|----------|---------|----------|
| 27AWUM | C | 6UAFKN | C | ABWJ3Y | C |
| 2F243T | C | 6WRNJN | None | AHL3EF | C |
| 2J6WZX | C | 6YF49X | None | AQBTX2 | None |
| 2JZKC2 | C | 7648GR | C | AV99QH | None |
| 2KE2F8 | C | 77GJR4 | C | B2M8MG | C |
| 2M69WX | None | 7ALAWX | None | B3LHDH | C |
| 2PRQTP | C | 7BRJ2N | C | B4F7VD | None |
| 2U2Z6R | C | 7C6BRK | C | BEAG82 | C |
| 2VNNMM | C | 7KTBYG | C | BFAKUP | None |
| 2YAG6F | C | 7NFU6L | C | BJ8ZAY | C |
| 34YEBH | C | 7UPY88 | None | BLX76H | None |
| 39C6NP | C | 7W882Z | C | BX2UFY | C |
| 3DRRAG | None | 7ZWFMM | C | C2K2LD | C |
| 4KA74E | B | 82D9W3 | C | C3FLLJ | C |
| 4L3C47 | C | 8CH9DG | C | C3HBQG | C |
| 4PKCMR | C | 8ETYVX | C | C7YNMX | None |
| 4PYYL9 | C | 8JEBD8 | C | C8VXHZ | None |
| 4VKUMC | C | 8TMFTH | C | C949CH | C |
| 4WY6RW | C | 8WMV8L | C | CDY6VH | C |
| 4ZK34T | C | 8ZM72Z | C | CHR4CY | D |
| 4ZZ9L4 | C | 8ZQN46 | C | CL7XXX | None |
| 68C2XL | Not Tested | 9JDLWG | C | CQZTY6 | C |
| 6FPZHP | None | 9KRXQF | C | CRVFC9 | None |
| 6GJNZK | C | 9MCZHK | None | CUY4V6 | C |
| 6GPULN | None | 9ZLMMC | C | CV2M7M | C |

TABLE 1 - Item 1

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| CVG46L | C | GNMMHD | C | K2WDXP | C |
| CY3TMD | C | GPDKYR | C | K3BYHC | C |
| D62PRV | D | GUTYYJ | None | K7B64A | C |
| D9FE6D | C | HBRRNP | C | KAU4DX | None |
| DRCRUE | None | HFFG6T | C | KDUF9X | None |
| E4MP4Z | None | HHCVN6 | C | KHLR29 | None |
| EAC3AU | C | HWW8C9 | C | KHP6TB | C |
| EAWQMH | C | HXMJUE | None | KJEFQV | None |
| ECUDR7 | C | J22CTK | C | KMGDXH | None |
| ER64P6 | C | J6UPYG | C | L8JLTT | None |
| EV9LFL | C | J6YXCA | None | LBKPLF | C |
| EW7WBP | C | J92T36 | C | LCRZGJ | None |
| FD2ZZ6 | None | J9G6RW | C | LCTWUA | C |
| FEHXM3 | None | JDTCT2 | C | LGZGH7 | C |
| FJDRMP | None | JDV4J | C | LH32WV | C |
| FMGJVP | None | JJ3JJ7 | C | LP48F4 | None |
| FPZJQC | C | JKXUQ3 | C | LTY4Y4 | C |
| FQWBLH | None | JL69VM | C | LUNPE8 | C |
| FRNCLE | None | JLN22Q | None | M2ALEG | None |
| FT2LWZ | None | JNFXR7 | None | MC9KJ8 | C |
| FY8D8J | C | JRUQAY | C | MDEZZL | C |
| G32X4E | C | JTR49C | C | METJL6 | C |
| G4Y9YG | C | JW8F6T | None | MJQU84 | C |
| GA332P | C | JW8HN7 | C | MK2PVG | C |
| GEFTLY | None | JYRL8W | C | MK6B9P | C |
| GKHWDH | None | K22RLB | C | MMPC3B | C |

TABLE 1 - Item 1

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| MQNJQU | None | QZLKEA | C | V2FULF | None |
| MTFDUP | C | R6WWBB | None | V9EHYD | C |
| MWZENC | C | RA788B | C | VF2FV2 | C |
| N7D3UU | C | RAAUKH | C | VF34A7 | C |
| N9MW2F | C | RN2PLN | C | WU2AF | C |
| NDAFA9X | C | RQAWQ2 | C | WLNFE | C |
| NPC3DF | C | RYGJXG | | WMELC6 | C |
| NQAD9J | None | T8B6KU | C | WPJC6D | None |
| NQMZB6 | C | T8UQDK | None | WT9H3G | C |
| NVHXQN | None | T9RA8Y | C | WV9TQ4 | C |
| NWMGLB | C | TBT8PE | None | X38TPW | C |
| NYRC3T | None | TEUDYH | None | X4LZBD | None |
| P94RLE | None | TFZYDH | C | X82ERT | C |
| PAFAYT | None | TGL83E | None | X8KB7D | None |
| PFJB28 | None | TJPYX8 | C | XA6C2Z | None |
| PJLAF8 | C | TPQF8T | None | XEVXJL | C |
| PKE4U3 | C | TPVTUN | C | XFRC7E | None |
| PUXH2L | None | TURD6Z | C | XG9AVX | C |
| PXHKTR | C | U9YZHM | None | XMBJY6 | C |
| Q8KAXY | C | UAWBEP | C | XWEMXM | C |
| QGXXEF | None | UAYXXN | C | Y28ZKW | C |
| QQWR96 | C | ULPQ3Q | C | Y7MM39 | C |
| QR8NLW | C | UM2GG2 | None | YBC4BT | C |
| QVMB48 | C | UNC7V8 | C | YF7226 | C |
| QYRRTY | C | UPU4FJ | None | YKDNJM | C |
| QZ73YJ | None | UW8BP9 | C | YLCQLX | None |

TABLE 1 - Item 1

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| YNZ3B3 | C | | | | |
| YQT3HE | None | | | | |
| YTCBC8 | C | | | | |
| YUNYYT | C | | | | |
| YWGMMF | C | | | | |
| YY6YN7 | None | | | | |
| Z28CLX | None | | | | |
| Z9RFT2 | None | | | | |
| ZGB6XZ | C | | | | |
| ZGVRKN | C | | | | |
| ZJ29Q7 | C | | | | |
| ZKXJMA | C | | | | |
| ZLFFNA | C | | | | |
| ZXMAUT | C | | | | |

Item 1 - Location Response Summary

| Location | Total | Total Participants: 245 |
|------------|-------|--|
| A | 0 | *NOTE: Tallies may not add up to the total number of participants, if a participant did not report a response. |
| B | 1 | |
| C | 166 | |
| D | 2 | |
| None | 74 | |
| Not Tested | 1 | |

TABLE 1 - Item 2

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| 27AWUM | B | 6WRNJN | B | AQBTX2 | B |
| 2F243T | B | 6YF49X | B | AV99QH | B |
| 2J6WZX | B | 7648GR | B | B2M8MG | B |
| 2JZKC2 | B | 77GJR4 | B | B3LHDH | B |
| 2KE2F8 | B | 7ALAWX | B | B4F7VD | B |
| 2M69WX | B | 7BRJ2N | B | BEAG82 | B |
| 2PRQTP | B | 7C6BRK | B | BFAKUP | B |
| 2U2Z6R | B | 7KTBYG | B | BJ8ZAY | B |
| 2VWNMM | B | 7NFU6L | B | BLX76H | B |
| 2YAG6F | B | 7UPY88 | B | BX2UFY | B |
| 34YEBH | B | 7W882Z | B | C2K2LD | B |
| 39C6NP | B | 7ZWFMM | B | C3FLLJ | B |
| 3DRRAG | B | 82D9W3 | B | C3HBQG | B |
| 4KA74E | B | 8CH9DG | B | C7YNMX | B |
| 4L3C47 | B | 8ETYVX | B | C8VXHZ | B |
| 4PKCMR | B | 8JEBD8 | B | C949CH | B |
| 4PYYL9 | B | 8TMFTH | B | CDY6VH | B |
| 4VKUMC | B | 8WMV8L | B | CHR4CY | B |
| 4WY6RW | B | 8ZM72Z | B | CL7XXX | B |
| 4ZK34T | B | 8ZQN46 | B | CQZTY6 | B |
| 4ZZ9L4 | B | 9JDLWG | B | CRVFC9 | B |
| 68C2XL | B | 9KRXQF | B | CUY4V6 | B |
| 6FPZHP | B | 9MCZHK | B | CV2M7M | B |
| 6GJNZK | B | 9ZLMMC | B | CVG46L | B |
| 6GPULN | B | ABWJ3Y | B | CY3TMD | B |
| 6UAFKN | B | AHL3EF | B | D62PRV | B |

TABLE 1 - Item 2

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| D9FE6D | B | HBRRNP | B | KAU4DX | B |
| DRCRUE | B | HFFG6T | B | KDUF9X | B |
| E4MP4Z | B | HHCVN6 | B | KHLR29 | B |
| EAC3AU | B | HVW8C9 | B | KHP6TB | B |
| EAWQMH | B | HXMJUE | B | KJEFQV | B |
| ECUDR7 | B | J22CTK | B | KMGDXH | B |
| ER64P6 | B | J6UPYG | B | L8JLTT | B |
| EV9LFL | B | J6YXCA | B | LBKPLF | B |
| EW7WBP | B | J92T36 | B | LCRZGJ | B |
| FD2ZZ6 | B | J9G6RW | B | LCTWUA | B |
| FEHXM3 | B | JDTCT2 | B | LGZGH7 | B |
| FJDRMP | B | JDV4J | B | LH32WW | B |
| FMGJVP | B | JJ3JJ7 | B | LP48F4 | B |
| FPZJQC | B | JKXUQ3 | B | LTY4Y4 | B |
| FQWBLH | B | JL69VM | B | LUNPE8 | B |
| FRNCLE | B | JLN22Q | B | M2ALEG | B |
| FT2LWZ | B | JNFXR7 | B | MC9KJ8 | B |
| FY8D8J | B | JRUQAY | B | MDEZZL | B |
| G32X4E | B | JTR49C | B | METJL6 | B |
| G4Y9YG | B | JW8F6T | B | MJQU84 | B |
| GA332P | B | JW8HN7 | B | MK2PVG | B |
| GEFTLY | B | JYRL8W | B | MK6B9P | B |
| GKHWDH | B | K22RLB | B | MMPC3B | B |
| GNMMHD | B | K2WDXP | B | MQNJQU | B |
| GPDKYR | B | K3BYHC | B | MTFDUP | B |
| GUTYYJ | B | K7B64A | B | MWZENC | B |

TABLE 1 - Item 2

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| N7D3UU | B | RAAUKH | B | VF34A7 | B |
| N9MW2F | B | RN2PLN | B | VWU2AF | B |
| NDFA9X | B | RQAWQ2 | B | WLNFEV | B |
| NPC3DF | B | RYGJXG | B | WMELC6 | B |
| NQAD9J | B | T8B6KU | B | WPJC6D | B |
| NQMZB6 | B | T8UQDK | B | WT9H3G | B |
| NVHXQN | B | T9RA8Y | B | WV9TQ4 | B |
| NWMGLB | B | TBT8PE | B | X38TPW | B |
| NYRC3T | B | TEUDYH | B | X4LZBD | B |
| P94RLE | B | TFZYDH | B | X82ERT | B |
| PAFAYT | B | TGL83E | B | X8KB7D | |
| PFJB28 | B | TJPYX8 | B | XA6C2Z | B |
| PJLAF8 | B | TPQF8T | B | XEVXJL | B |
| PKE4U3 | B | TPVTUN | B | XFRC7E | B |
| PUXH2L | B | TURD6Z | B | XG9AVX | B |
| PXHKTR | B | U9YZHM | B | XMBJY6 | B |
| Q8KAXY | B | UAWBEP | B | XWEMXM | B |
| QGXXEF | B | UAYXXN | B | Y28ZKW | B |
| QQWR96 | B | ULPQ3Q | B | Y7MM39 | B |
| QR8NLW | B | UM2GG2 | B | YBC4BT | B |
| QVMB48 | B | UNC7V8 | B | YF7226 | B |
| QYRRTY | B | UPU4FJ | B | YKDNJM | B |
| QZ73YJ | B | UW8BP9 | B | YLCQLX | B |
| QZLKEA | B | V2FULF | B | YNZ3B3 | B |
| R6WWBB | B | V9EHYD | B | YQT3HE | B |
| RA788B | B | VF2FV2 | B | YTCBC8 | B |

TABLE 1 - Item 2

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| YUNYYT | B | | | | |
| YWGMMF | B | | | | |
| YY6YN7 | B | | | | |
| Z28CLX | B | | | | |
| Z9RFT2 | B | | | | |
| ZGB6XZ | B | | | | |
| ZGVRKN | B | | | | |
| ZJ29Q7 | B | | | | |
| ZKXJMA | B | | | | |
| ZLFFNA | B | | | | |
| ZXMAUT | B | | | | |

Item 2 - Location Response Summary

| Location | Total |
|------------|-------|
| A | 0 |
| B | 244 |
| C | 0 |
| D | 0 |
| None | 0 |
| Not Tested | 0 |

**NOTE: Tallies may not add up to the total number of participants, if a participant did not report a response.*

TABLE 1 - Item 3

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|------------|---------|----------|---------|----------|
| 27AWUM | A | 6WRNJN | A | AQBTX2 | D |
| 2F243T | None | 6YF49X | None | AV99QH | None |
| 2J6WZX | None | 7648GR | None | B2M8MG | A |
| 2JZKC2 | A | 77GJR4 | A | B3LHDH | None |
| 2KE2F8 | None | 7ALAWX | None | B4F7VD | None |
| 2M69WX | None | 7BRJ2N | None | BEAG82 | D |
| 2PRQTP | A | 7C6BRK | None | BFAKUP | A |
| 2U2Z6R | None | 7KTBYG | None | BJ8ZAY | None |
| 2VWNMM | None | 7NFU6L | None | BLX76H | None |
| 2YAG6F | None | 7UPY88 | None | BX2UFY | A |
| 34YEBH | None | 7W882Z | None | C2K2LD | None |
| 39C6NP | None | 7ZWFMM | None | C3FLLJ | None |
| 3DRRAG | None | 82D9W3 | None | C3HBQG | None |
| 4KA74E | C | 8CH9DG | A | C7YNMX | None |
| 4L3C47 | None | 8ETYVX | None | C8VXHZ | None |
| 4PKCMR | None | 8JEBD8 | A | C949CH | None |
| 4PYYL9 | A | 8TMFTH | A | CDY6VH | None |
| 4VKUMC | A | 8WMV8L | None | CHR4CY | C |
| 4WY6RW | A | 8ZM72Z | None | CL7XXX | A |
| 4ZK34T | None | 8ZQN46 | None | CQZTY6 | A |
| 4ZZ9L4 | None | 9JDLWG | A | CRVFC9 | None |
| 68C2XL | Not Tested | 9KRXQF | None | CUY4V6 | A |
| 6FPZHP | None | 9MCZHK | None | CV2M7M | A |
| 6GJNZK | A | 9ZLMMC | None | CVG46L | A |
| 6GPULN | None | ABWJ3Y | None | CY3TMD | None |
| 6UAFKN | None | AHL3EF | None | D62PRV | None |

TABLE 1 - Item 3

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|------------|---------|----------|
| D9FE6D | None | HBRRNP | None | KAU4DX | None |
| DRCRUE | None | HFFG6T | None | KDUF9X | None |
| E4MP4Z | None | HHCVN6 | None | KHLR29 | D |
| EAC3AU | None | HVW8C9 | A | KHP6TB | None |
| EAWQMH | None | HXMJUE | None | KJEFQV | A |
| ECUDR7 | A | J22CTK | A | KMGDXH | None |
| ER64P6 | None | J6UPYG | None | L8JLTT | A |
| EV9LFL | A | J6YXCA | None | LBKPLF | None |
| EW7WBP | None | J92T36 | None | LCRZGJ | None |
| FD2ZZ6 | None | J9G6RW | None | LCTWUA | None |
| FEHXM3 | D | JDTCT2 | None | LGZGH7 | None |
| FJDRMP | None | JDV4J | None | LH32WW | None |
| FMGJVP | None | JJ3JJ7 | None | LP48F4 | None |
| FPZJQC | C | JKXUQ3 | None | LTY4Y4 | A |
| FQWBLH | None | JL69VM | A | LUNPE8 | D |
| FRNCLE | None | JLN22Q | None | M2ALEG | None |
| FT2LWZ | D | JNFXR7 | None | MC9KJ8 | None |
| FY8D8J | None | JRUQAY | Not Tested | MDEZZL | None |
| G32X4E | None | JTR49C | None | METJL6 | A |
| G4Y9YG | None | JW8F6T | None | MJQU84 | None |
| GA332P | None | JW8HN7 | None | MK2PVG | None |
| GEFTLY | None | JYRL8W | A | MK6B9P | None |
| GKHWDH | A | K22RLB | None | MMPC3B | None |
| GNMMHD | None | K2WDXP | None | MQNJQU | C |
| GPDKYR | None | K3BYHC | None | MTFDUP | C |
| GUTYYJ | A | K7B64A | None | MWZENC | None |

TABLE 1 - Item 3

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| N7D3UU | None | RAAUKH | None | VF34A7 | None |
| N9MW2F | None | RN2PLN | None | WU2AF | None |
| NDA9X | None | RQAWQ2 | A | WLNFE | None |
| NPC3DF | A | RYGJXG | | WMELC6 | None |
| NQAD9J | D | T8B6KU | None | WPJC6D | None |
| NQMZB6 | D | T8UQDK | None | WT9H3G | A |
| NVHXQN | None | T9RA8Y | None | WV9TQ4 | A |
| NWMGLB | None | TBT8PE | A | X38TPW | None |
| NYRC3T | None | TEUDYH | None | X4LZBD | None |
| P94RLE | A | TFZYDH | None | X82ERT | None |
| PAFAYT | D | TGL83E | None | X8KB7D | None |
| PFJB28 | None | TJPYX8 | None | XA6C2Z | None |
| PJLAF8 | None | TPQF8T | None | XEVXJL | A |
| PKE4U3 | None | TPVTUN | None | XFRC7E | A |
| PUXH2L | None | TURD6Z | None | XG9AVX | None |
| PXHKTR | None | U9YZHM | A | XMBJY6 | A |
| Q8KAXY | None | UAWBEP | None | XWEMXM | A |
| QGXXEF | None | UAYXXN | None | Y28ZKW | None |
| QQWR96 | None | ULPQ3Q | None | Y7MM39 | None |
| QR8NLW | None | UM2GG2 | B | YBC4BT | None |
| QVMB48 | None | UNC7V8 | A | YF7226 | A |
| QYRRTY | A | UPU4FJ | None | YKDNJM | A |
| QZ73YJ | None | UW8BP9 | A | YLCQLX | None |
| QZLKEA | None | V2FULF | None | YNZ3B3 | None |
| R6WWBB | None | V9EHYD | None | YQT3HE | None |
| RA788B | None | VF2FV2 | B | YTCBC8 | A |

TABLE 1 - Item 3

| WebCode | Location | WebCode | Location | WebCode | Location |
|---------|----------|---------|----------|---------|----------|
| YUNYYT | None | | | | |
| YWGMMF | None | | | | |
| YY6YN7 | C | | | | |
| Z28CLX | None | | | | |
| Z9RFT2 | None | | | | |
| ZGB6XZ | None | | | | |
| ZGVRKN | None | | | | |
| ZJ29Q7 | A | | | | |
| ZKXJMA | A | | | | |
| ZLFFNA | D | | | | |
| ZXMAUT | A | | | | |

Item 3 - Location Response Summary

| Location | Total |
|------------|-------|
| A | 53 |
| B | 2 |
| C | 6 |
| D | 10 |
| None | 171 |
| Not Tested | 2 |

**NOTE: Tallies may not add up to the total number of participants, if a participant did not report a response.*

Development Methods

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| 27AWUM | Visual Examination | Visually looked at the item for any prints |
| | Alternate Light Source | Used 520nm Laser, 445nm Blue light, and 365nm UV |
| | 1,2-Indanedione | Used Indanedione and placed the item in the oven for 20 minutes, afterwards used the 520nm Laser |
| | Ninhydrin | Used Ninhydrin and then placed the item in the humidity cabinet for 15 minutes and then performed a visual examination |
| | Physical Developer (PD) | Used physical developer on the item and then performed a visual examination |
| 2F243T | Visual Examination | 11/1-ambient light |
| | Ninhydrin | Special formula 11/1- first application, let sit overnight. 11/2- observed very light purple fingermark in quadrant C, re-applied, let sit overnight. 11/14- additional light detail observed in quadrant C |
| 2J6WZX | Visual Examination | No friction ridge impressions were observed upon visual examination with and without oblique lighting. Item also examined under Krime Scope using UV lighting with negative results. |
| | Ninhydrin | Ninhydrin applied to paper under the fuming hood. Paper placed in forensic oven set at 80C, 65% RH for 3 minutes resulting in the successful development of a faint friction ridge impression in section C. |
| | Alternate Light Source | Item observed under ALS at 555nm using orange goggles which improved the visibility of the impression. |
| 2JZKC2 | DFO | Visual examination (000-590nm); photography; 100 °c |
| 2KE2F8 | Visual Examination | 11/04/2022 - Initial visual examination performed upon opening item 1. No friction ridge detail was observed. |
| | DFO | 11/04/2022 - DFO was applied, and item 1 was placed in a heating chamber at 100 degrees celsius for 20 minutes. |
| | Alternate Light Source | 11/07/2022 - Item 1 was examined with an ALS set to 475nm (orange barrier goggles used). Friction ridge detail was observed to have been developed in quadrant C. |
| | Ninhydrin | 11/07/2022 - Post DFO processing, item 1 was treated with Ninhydrin and placed in a chamber with heat (75 degrees celsius) and humidity for approximately 4 minutes. |
| | Visual Examination | 11/07/2022 - After removal from the chamber, a visual examination was conducted to determine if any friction ridge detail had developed as a result of the Ninhydrin processing. No additional friction ridge detail was observed and there was no improvement from the DFO processing (development was no value). No further actions were taken. |
| 2M69WX | Ninhydrin | first, a visual examine of Item #1, then spray the item with ninhydrin solution followed by chamber. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|--|
| 2PRQTP | Visual Examination | |
| | DFO | DFO- 20 minutes; 100 degrees C |
| | Laser | Laser |
| 2U2Z6R | Visual Examination | |
| | Ninhydrin | 20 minutes in 50 degrees Celsius heat and 80% humidity |
| 2VVNMM | Visual Examination | |
| | Alternate Light Source | |
| | 1,2-Indanedione | |
| 2YAG6F | Powder Dusting | Magnetic powder on the newspaper; no results. |
| | Ninhydrin | Novex Ninhydrin due to the marker ink on the newspaper; positive results in square C. |
| 34YEBH | Visual Examination | Visual inspection - Natural light and laser. |
| | 1,2-Indanedione | Sprayed item with 1, 2 Indanedione, applied heat after item dried. |
| | Ninhydrin | Sprayed item with Ninhydrin, allowed to dry and placed in humidifier (40 degrees C 80%RH). Allowed to sit over night. |
| 39C6NP | Visual Examination | Item 1 was visually examined with white light and magnification on 11/15/22. No ridge detail was observed. |
| | Heptane | Heptane was used on item 1 to remove tape to facilitate processing on 11/15/22. |
| | DFO | Item 1 was treated with DFO on 11/15/22. Post treatment processing in Caron chamber on 11/15/22. Post processing visual exam with white light and magnification on 11/15/22. No ridge detail was observed. Post processing visual exam with the Foster+Freeman CrimeLite 82s blue/green (450-510nm) and orange glasses on 11/15/22. Ridge detail was observed in quadrant C. |
| | Ninhydrin | Item 1 was treated with Ninhydrin on 11/15/22. Post treatment processing in Caron chamber on 11/15/22. Faint development of ridge detail was observed in quadrant C. Item was retreated with Ninhydrin and processed in the Caron chamber on 11/15/22. No improvement on development of observed ridge detail. Observed ridge detail is not suitable for scanning/photography. |
| 3DRRAG | Visual Examination | Did visual examination with white light. |
| | 1,2-Indanedione | Applied indanedione to item, allowed to dry, then applied dry heat to item. |
| | Alternate Light Source | Viewed item with Fluorescent dye under ALS. |
| | Ninhydrin | Applied ninhydrin, allowed to dry. Placed item in humidifier for 20 minutes. Placed item in dark place to allow enough time for development. |
| | Visual Examination | Did visual examination after Ninhydrin with white light. |
| | Physical Developer (PD) | Saturated item. Physical Developer process |
| | Visual Examination | Did visual examination with white light. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| 4KA74E | Visual Examination | First I did an visual examination of the piece of evidence to identify the possible fingerprint. |
| | Alternate Light Source | I used an alternate light source to have a better visibility of the piece of evidence and the possible fingerprint. |
| | Ninhydrin | I proceeded to use Ninhydrin in the evidence to identify the possible fingerprint. The fingerprint was weak but it was located in the letter B. |
| 4L3C47 | Visual Examination | oblique lighting used |
| | Alternate Light Source | 420-470 nm |
| | Ninhydrin | |
| 4PKCMR | Visual Examination | Oblique light. |
| | Alternate Light Source | At 455-515 nm wavelengths. |
| | Ninhydrin | |
| 4PYYL9 | Ninhydrin | Visual examination under white light, in the envelope with a humidity 60 % and temperature 20C in the period from 5 to 48 hours; visual examination under white light |
| 4VKUMC | Ninhydrin | Ninhydrin was successfully verified using a control test. Item 1 was sprayed with ninhydrin (8 inches away at room temperature and relative humidity for 24 hours). |
| | Visual Examination | The items were visually examined. |
| 4WY6RW | DFO | DFO (Oven, 100 C for ~20min) |
| | Ninhydrin | (Steam Iron) |
| 4ZK34T | Ninhydrin | Dipped in Ninhydrin, dried and placed in heat humidity chamber for 20min |
| 4ZZ9L4 | Visual Examination | Items was photographed and documented as received. Item visually examined using KrimeSite with negative results |
| | Ninhydrin | Item Processed with Ninhydrin. Area of touch located in section C. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| 6FPZHP | Visual Examination | 11/15/2022-visually examined sheet of newsprint paper divided into four sections. |
| | Ninhydrin | 11/15/22-Ninhydrin with acetone was applied twice to a QC (filter paper with known print) upon drying, a purple color change was produced which is indicative of a positive result. Ninhydrin with acetone was then applied twice to all four sections of the newsprint paper. No color change was observed. Let dry overnight to see if detail will develop. 11/21/22-observed upon drying, no purple color change/ridge detail observed. Applied Ninhydrin Special formula twice to all four sections of the newsprint paper. Upon drying, a purple color change was observed towards the bottom edge of section C. Let dry overnight to see if detail would develop. 11/28/22-observed upon drying, same result as 11/21/22. Re-applied Ninhydrin Special formula twice to all four sections of the newsprint paper, will allow to dry overnight. 12/1/22-observed upon drying, same result as 11/21/22, will move forward with further processing. |
| | VMD | 12/6/2022-the newsprint paper was placed in the Vacuum Metal Deposition (VMD) chamber along with a QC (known print on paper). The metals used were gold followed by zinc followed by silver. Under the vacuum state, gold is deposited onto the evidence then zinc is deposited onto the gold then silver follows to provide better contrast. Ridge detail did not develop. |
| 6GJNZK | Visual Examination | white light |
| | Alternate Light Source | polylight. 440 - 520nm. orange filter |
| | 1,2-Indanedione | 520nm. orange filter |
| 6GPULN | Visual Examination | with TracER Laser & white CrimeLite |
| | DFO | 20 minutes in 100C oven -- viewed with Polilight500 505nm & orange goggles |
| | Ninhydrin | 3 minutes in 80C oven with 65 relative humidity -- redipped & reran a second time -- viewed with incandescent light |
| 6UAFKN | Visual Examination | Examined the item in natural light |
| | Alternate Light Source | Examined the item under different lights (Alternative Light Sources including white light and observed for any inherent fluorescence) |
| | Ninhydrin | Chemical Ninhydrin used Lot # 071422-01. Dipped item in chemical for 10 seconds and let it dry before adding it to the humidified Chamber. Chamber- CARON Fingerprint Chamber. ID No: 011612-6105-2-202. Temperature: 75C. Humidity: 80%. Time: 5:00 minutes. (test print positive) |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|--|
| 6WRNJN | Visual Examination | Viewed item with regular light |
| | Alternate Light Source | Viewed item under ALS (Coherent Tracer Laser) |
| | Ninhydrin | Due to the item being recycled material, I applied Ninhydrin to the item. Once the item was dry, I placed the item between two paper towels and applied heat with an iron to attempt to develop detail. No detail was located. A control print was utilized and was positive. |
| | Dye Stain | I added enough ORO stain to a plastic bag to cover the piece of evidence and control print. I agitated the item in the bag using an orbital shaker for approximately 5 minutes. I then completed a water post-wash after submersion in the ORO stain and agitated using an orbital shaker for 5 minutes. No detail was seen, and the control print was positive. I allowed the evidence to dry on butcher paper. |
| | Physical Developer (PD) | I was sure to use clean glassware without scratches for mixing the PD solution. I added enough maleic acid pre-wash (twice as much as needed to cover the evidence) to a re-sealable plastic bag and let stand for approximately 5 minutes. I then used a plastic tweezer to carefully transfer evidence from maleic acid pre-wash into physical developer working solution. (The PD solution was mixed according to the manufacturer instructions). I added enough PD working solution (twice as much as needed to cover the evidence) to a re-sealable plastic bag. I processed in a re-sealable plastic bag to keep the mixed solution (silver) from falling out. I then used the orbital shaker to agitate the plastic bag and contents. I then rinsed with water to remove un-reacted physical developer and dried on a paper towel. No detail was seen. The control print was positive. |
| 6YF49X | Visual Examination | white light |
| | Alternate Light Source | range of light sources used: blue, green, UV |
| | DFO | 20 minutes @100 C, 0% humidity |
| | Ninhydrin | 4 mins @ 80 C , 62% relative humidity |
| 7648GR | Ninhydrin | It was applied and left to act at room temperature for 48 hours |
| 77GJR4 | Visual Examination | *Please note that gloves were worn at all times throughout processing. Item 1 was first removed from its packaging and visually examined. No ridge detail was observed at this time. |
| | Ninhydrin | *Please note that gloves were worn at all times throughout processing. Because item 1 was observed to be a paper item, ninhydrin was selected for processing. A humidity chamber was cleaned prior to use with isopropyl alcohol. A clean sheet of butcher paper was placed onto the shelving within the chamber. A positive control was created utilizing a clean piece of white butcher paper. Ninhydrin (Lot #06062022JRL, EXP: 06/06/2023) was sprayed onto the control paper and allowed to dry for approximately 60 seconds. The control was then placed into the humidity chamber set to 90% humidity and 32.2 degrees Celsius for approximately ten minutes. Positive results were observed. Identical steps were taken to process item 1. The item was left in the humidity chamber for approximately 30 minutes. At this time, no possible ridge detail was observed. The item along with the control were then placed into an unsealed plastic bag and placed into a temporary locker pending analysis at a later date. The item was retrieved approximately 48 hours later and very faint purple discoloration was observed in quadrant "C". |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|--|---|
| 7ALAWX | Visual Examination Ninhydrin Steam Iron | Cursory search of item before processing. Suspended in humidity chamber for approximately 60 minutes. Item placed between two sheets of clean white copy paper and carefully heated using a steam iron. |
| 7BRJ2N | Ninhydrin | the sample was sprayed with ninhydrin and the result showed in 25 minutes> |
| 7C6BRK | Visual Examination Full Spectrum Imaging System Ninhydrin | I observed the newsprint paper (item 1) under ambient light. No latent ridge detail was observed. I viewed the newsprint paper (item 1) using the Full Spectrum Imaging System (FSIS) at 254 nanometers. No latent ridge detail was observed I immersed the newsprint paper (item 1) in the chemical compound Ninhydrin. I allowed the item to completely dry inside of a vented hood. I then used a steam iron to introduce heat and humidity. I noted that latent ridge detail was observed in Quadrant "C" |
| 7KTBYG | Visual Examination Alternate Light Source 1,2-Indanedione Physical Developer (PD) | |
| 7NFU6L | Ninhydrin | |
| 7UPY88 | Ninhydrin | Object #1 (Item 1) was treated, spraying Ninhydrin (#A-2643) , and later allowed to dry at room temperature, already for an hour; it did not developed the purple color, that indicates the presence of Amino Acids (Fingerprint). |
| 7W882Z | Dye Stain | Dye stained with DFO (SV2022-DFO-04); dried in caron chamber for 20 mins @ 100C and 0% humidity; viewed under forensic laser |
| 7ZWFMM | Visual Examination 1,2-Indanedione Alternate Light Source Ninhydrin | Viewed using magnification and oblique lighting. Sprayed with Indanedione. Allowed to dry. Placed in oven at 100 C for 10 minutes. Viewed using laser - see ALS notes. Control processed before item. Control and item viewed using green laser (532) with red filter. Control processed before item. Both control and item were sprayed with ninhydrin and allowed to dry. Then placed in oven at 80 C with relative humidity set at 67% for approximately 10 minutes. |
| 82D9W3 | Ninhydrin | photografic fixations were made with metric witness, it was sprayal with ninhydrine and the developer was allowed to act for several days |
| 8CH9DG | Visual Examination Alternate Light Source 1,2-Indanedione Physical Developer (PD) | |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| 8ETYVX | Ninhydrin | First processed a paper control using thermal premixed ninhydrin spray and light steam exposure, and the result was positive--processed item 1, the newsprint paper, with thermal premixed ninhydrin spray twice and then exposed the paper briefly to light steam—no development occurred immediately, and the item was placed in a plastic bag—checked on the item later and opted to process the item again using ninhydrin HFE-7100 after first processing a new newspaper control with positive results-dipped item 1 in ninhydrin HFE-7100 and placed it in a plastic bag after processing (and once dry) and later checked on the item and found a faint print beginning to develop in "C"--stored the item until return to work on 10/25/2022—faint print had developed further |
| 8JEBD8 | Visual Examination | White light, RUVIS, LASER |
| | DFO | NOVEC formula - Heat press |
| | Ninhydrin | NOVEC formula - Steam heat |
| 8TMFTH | 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 developed. |
| | 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 developed. |
| | 1,2-Indanedione | Item was treated with 1,2-Indanedione and item was placed in the Thermo Fisher oven for 12 minutes (10 minutes plus the current 2 minute recovery time). Following dark adaptation, the item was examined using the Green Crime Lite ML2 490-560nm with 571 nm viewing filter. QA adhered to throughout and control test piece passed. An area of ridge detail was developed. This was marked up and exhibited. |
| | Ninhydrin | Item 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 there were no further enhancements of previously developed marks. |
| | Physical Developer (PD) | Item 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 there were no further enhancements of previously developed marks. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| 8WMV8L | Visual Examination | Visually examined the evidence, using natural light source |
| | Iodine Fuming | used iodine crystals on the porous surface causing fumes to develop the latent print reacting to the fatty and oily components in the print, forming a yellowish-brown fingerprint (IO221116) |
| | Ninhydrin | sprayed evidence with ninhydrin reacting to the amino acids in the fingerprint forming a purple print (HFENIN220901) |
| 8ZM72Z | Ninhydrin | 4 days in chamber |
| 8ZQN46 | Visual Examination | Photographs taken of items as is. Visual examination done of the item with and without oblique lighting. No impressions were observed. |
| | 1,2-Indanedione | Test impression performed with positive results. Saturated item 1 with chemical. Allowed item to dry fully. Heat press item & visualized impressions using laser. (1) Impression developed and was marked with a scale, marked B. |
| | Ninhydrin | Test impression performed with positive results. Saturated item 1 with chemical. Allowed item to dry fully. Heat chamber per SOPs and no impressions were further developed. The previous impression was not developed either. |
| 9JDLWG | Ninhydrin | Ninhydrin with humidity and heat. Ran with standard in oven for 20 minutes to see if print would get better detailed. |
| 9KRXQF | Visual Examination | |
| | Alternate Light Source | |
| | 1,2-Indanedione | |
| | Physical Developer (PD) | |
| 9MCZHK | Ninhydrin | the sample was sprayed by ninhydrin, the sample were kept for 2 days to see the result, no fingerprints were observed> |
| 9ZLMMC | Visual Examination | 3 minutes visual examination using natural lighting. |
| | 1,2-Indanedione | 2 minutes - Applied Indanedione-Zinc using squirt bottle method, dried overnight (16 hours). |
| | Dry Iron | 5 minutes - Used dry iron heat over Newsprint Paper for development. |
| | Ninhydrin | 2 minutes - applied Ninhydrin using squirt bottle method. 30 minutes dry time. |
| | Humidity Chamber | 30 minutes (development time) - Espec brand Humidity Chamber 120 hours total development time. |
| | Visual Examination | 3 minutes - Visual Examination using natural light for results. |
| ABWJ3Y | Visual Examination | |
| | Alternate Light Source | |
| | Ninhydrin | 40°C +/- 5°, relative humidity 65% +/- 5% |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|--|
| AHL3EF | Visual Examination | white light, different angles |
| | Alternate Light Source | blue light 420-470 nm, filter 495nm green light 490-560 nm, filter 570nm |
| | 1,2-Indanedione | 100 degrees celsius 0% RH 10 minutes |
| | Ninhydrin | 80 degrees celsius 62% RH 2 minutes |
| | Physical Developer (PD) | 6 minutes |
| AQBTX2 | Visual Examination | The item was visually examined using a white light and ambient light in room. Fingerprint no visible. |
| | Iodine Crystal Ampoules | The item was placed in a plastic bag with Iodine Crystal Ampoules, the ampoules broken and the bag was sealed. |
| | Alternate Light Source | The item was examined with white light and ambient light in room. A detail (apparent fragment of fingerprint) was observed. |
| | Ninhydrin | Then ninhydrin reagent was applied to the item and a steam iron was used to apply humid heat. Fingerprint no visible. |
| | Alternate Light Source | The item was re-examined with an alternate white and UV light. Fingerprint no visible and no detail was recovered at this time. |
| AV99QH | Visual Examination | CrimeLite and LASER |
| | DFO | 20 min. dry oven. LASER |
| | Ninhydrin | 3 min. heated humidity chamber |
| B2M8MG | 1,2-Indanedione | After visual examination, item was processed using IND allow to air dry for 2-3 minutes Oven for 15 minutes at 100 cel degrees |
| | Alternate Light Source | Under FLS : 515 nm with orange filter Fingerprint residue was not clear |
| | Ninhydrin | Then, Visual examination Oven: 80 cel degrees for 10 minutes |
| B3LHDH | Ninhydrin | Submerged paper in Ninhydrin, let it dry, placed in heat/humidity chamber for 20 minutes. |
| B4F7VD | Visual Examination | High intensity white light. |
| | 1,2-Indanedione | Chemical lot: 22-0721AC. Humidity Chamber (90 minutes, 50 degrees Celsius, 60% relative humidity). TracER Laser. Light and limited ridge detail noted; however, ridge detail faded quickly upon observation. |
| | Ninhydrin | Chemical lot: 22-1129AC. Humidity chamber (90 minutes, 26.6 degrees Celsius, 80% relative humidity). High intensity white light. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| BEAG82 | Visual Examination | I completed the initial visual examination to determine best processing methods for the item. I considered this item to be porous. I also photographed the item prior to any processing. I used oblique white light on this item and could see faint ridge detail in section c. |
| | Alternate Light Source | I used the Alternate Light Source to determine if any fluorescing can be seen on the object, prior to processing. During this step for this item, I could see partial ridge detail in section C. |
| | Ninhydrin | I used Ninhydrin (PeET). I placed the item in a glass dish, and used a pipette to saturate the item with Ninhydrin for approximately 5-10 seconds. I let the item dry for 5 mins. I then introduce heat and humidity by waving a hot steam iron back and forth over the paper, without touching it, for approx. 20 secs. I looked for any developing ridge detail. I repeated this process 24 and 48 hours later. |
| BFAKUP | Visual Examination | under white light |
| | Alternate Light Source | Laser |
| | FSIS | Full Spectrum Imaging System/ long and short UV |
| | DFO | 100 C for 20 minutes, viewed with blue laser |
| | Ninhydrin | |
| BJ8ZAY | Ninhydrin | Item placed in ninhydrin for 5 seconds. Item hung to dry for 5 minutes. LOT# 082522-01 |
| | Humidity Chamber | Item placed in chamber with test print. Test print positive 80 degrees Celsius. 65% humidity. 3 minutes |
| | Visual Examination | Faint print observed in area labeled "C" |
| BLX76H | Visual Examination | crimelight, UV light, and 530nm |
| | DFO | 20 min in fingerprint development chamber |
| | Ninhydrin | 1 week sitting out (humidity chamber out of service) |
| BX2UFY | Visual Examination | Green laser, UV and Blue crime lite exams along with white light Crime Lite exam carried out. negative result. |
| | 1,2-Indanedione | Indandione treatment of item (INDWS/16) positive result - section 'C' |
| | Ninhydrin | Ninhydrin treatment of item (NINWS/375) positive result section 'C' but no improvement in development of mark. |
| C2K2LD | Ninhydrin | Evidencia N°1: el tiempo de procesamiento con el reactivo químico Ninhidrina fue de setenta y dos (72) horas. [English translation of comments was not obtained by the time of report publication.] |
| C3FLLJ | Visual Examination | No indented writing or trace evidence noted. |
| | Alternate Light Source | No prints visible. |
| | Ninhydrin | Dipped in Ninhydrin working solution twice until fully saturated and air dried. Waited over 72 hours for further development. No further development was observed, the item was then steamed with an iron on and off for 30 minutes. Faint latent print appeared, not suitable for determination. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| C3HBQG | Visual Examination | Used oblique lighting from a Crimelite flashlight (white light), then used a Coherent TracER LASER with a KV550 lens filter to image any potential latent print. Also, incandescent lighting was used. These methods were applied to the newsprint paper, the piece of cardboard, and the two pieces of clear tape (only the non-adhesive side). |
| | Cyanoacrylate Fuming | For the two pieces of clear tape (non-adhesive side) the entire item was placed inside a Foster & Freeman MVC-5000 superglue chamber, used 3 grams of cyanobloom (superglue) in heating element, and set an autocycle program for 70 minutes. Using a crimelite flashlight (white light), oblique lighting was applied to the two pieces of clear tape to image any potential latent Prints. |
| | Dye Stain | Only on the two pieces of clear tape (non-adhesive side only) - Rhodamine 6G was applied on the non-adhesive side of the two pieces of clear tape of Item 1. A Coherent TracER LASER and KV550 lens filter was used to image any potential latent prints. |
| | Powder Dusting | Only on the two pieces of clear tape (non-adhesive side only) - Black powder was applied on the two pieces of clear tape. Oblique lighting from a Crimelite flashlight and incandescent lighting was used to image any potential latent prints. |
| | DFO | On the newsprint paper and on the cardboard - A 3 second soaking of 1,8-Diazafuoren-9-one (DFO) was applied. After the item dried, the soaking step was repeated and placed into the Sanyo Gallankamp oven and set at 100 degrees Celsius for 20 minutes. A Coherent TracER LASER and a KV550 lens filter was used to image the latent print. The item was re-examined with the LASER after a 24 hour of sit-time to allow complete development of DFO. |
| | Ninhydrin | On the newsprint paper and on the cardboard - A 3 second soaking of Ninhydrin was applied. After the item dried, the soaking step was repeated and placed into an oven for 6 minutes set at 80 degrees Celsius and having 65 percent relative humidity. Incandescent lighting, Oblique lighting from a Crimelite flashlight, and fluorescent lighting was used to image any potential latent prints. The item was re-examined after 24 hours of sit-time to allow complete development of Ninhydrin. |
| C7YNMX | Visual Examination | A visual inspection was performed, no fingerprint was identified. |
| | Alternate Light Source | A visual inspection was performed using alternating white and violet light, no fingerprint was identified. |
| | Powder Dusting | Black magnetic powder was used for fingerprint development, resulting negative for fingerprint. |
| C8VXHZ | Ninhydrin | Evidence object 1 was treated by spraying ninhydrin (# A-2643) and allowed to dry at room temperature for an hour, but did not develop the purple color, indicative of the presence of amino acids. |
| C949CH | Visual Examination | |
| | Alternate Light Source | FSIS |
| | Ninhydrin | HFE Ninhydrin applied with a spray bottle. Put item in the humidity chamber for 3 minutes to develop at 65% humidity and 80 degrees C |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| CDY6VH | Visual Examination | visually observed |
| | Ninhydrin | Ninhydrin special formula used. Heat and humidity applied with steamer. Re-treated and dried overnight. Treated with ninhydrin special formula and heat and humidity applied the following day |
| CHR4CY | Visual Examination | First I did a visual examination of the piece of evidence to locate the possible fingerprint. |
| | Alternate Light Source | Then I used an alternate light source to have a better visibility of the possible fingerprint. |
| | Powder Dusting | To develop the possible fingerprint I used powder dusting. The fingerprint was weak but it was located in the letter D of the piece of evidence. |
| CL7XX | Ninhydrin | 15 days after application silver nitrate was used. |
| CQZTY6 | Visual Examination | Natural light, white light. |
| | Ninhydrin | Ninhydrin spray was used to find latent print on a newsprint paper. The newsprint paper was left in a dark room (about 22 degrees Celsius) for 8 days. The latent print was recovered in section "C". |
| CRVFC9 | Visual Examination | Forensic light (white, green, blue) |
| | 1,2-Indanedione | 100 celcius degrees at 10 minutes |
| | Ninhydrin | 80 celsiums degrees at 62% RH at 2 minutes |
| | Physical Developer (PD) | |
| CUI4V6 | Visual Examination | White light. |
| | Ninhydrin | Ninhydrin spray "NIN-PRINT" B-78500, BVDA. Room temperature 19,4 degrees, room humidity 44%. |
| CV2M7M | Visual Examination | Ambient lighting |
| | 1,2-Indanedione | Heat press. Exam post-IND with green laser at approx 532nm with orange goggles |
| | Ninhydrin | Steam iron. Exam post-NIN with ambient lighting. 2nd application -> steam iron. Exam post-NIN with ambient lighting |
| CVG46L | FSIS | Viewed with FSIS under UV light |
| | Cyanoacrylate Fuming | Fumed with superglue for about 1 hour (and allowed to cure), viewed with laser at 532 nm and filter |
| | 1,2-Indanedione | Saturated with IND (heat and humidity added) |
| | Ninhydrin | Saturated with ninhydrin (heat and humidity added) |
| | Vacuum metal deposition | processed with VMD and gold and zinc metals |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| CY3TMD | Visual Examination | Relative temperature of the processing room was 72.2 degrees Fahrenheit. No friction ridge detail was observed. |
| | Ninhydrin | I then processed this item with Ninhydrin (Heptane base) via the dip method. I let this item dry under the vent hood for 30 minutes. I then applied heat/humidity via a steam iron. A fingerprint of value was developed in quadrant C. The friction ridge detail was faint. |
| | Visual Examination | Conducted another visual examination of this item after 7 days. No additional friction ridge detail was observed. The friction ridge detail still was faint on this item. |
| D62PRV | Powder Dusting | mag powder- one minute |
| D9FE6D | Visual Examination | White light |
| | Alternate Light Source | Polilight, Foster+Freeman Crime-lite ML2 - all available wavelengths ESDA® 2/B; Foster+Freeman ESDA Electrostatic Detection Apparatus |
| | DFO | 100°C, Processing time 10 min, 0% RH |
| | Ninhydrin | 80°C, Processing time 5 min, 65% RH |
| | Physical Developer (PD) | Processing time approximately 60 min, shaker GFL 3018 |
| DRCRUE | Ninhydrin | 24 hours into heated camara then 7 days into ambient conditions camara. |
| E4MP4Z | Visual Examination | No prints observed |
| | DFO | Submerged item in the solution for 60 seconds. Allowed to dry. Heated the item for 30 seconds. |
| | Ninhydrin | Submerged item in the solution for 60 seconds. Allowed to dry. Heated the item for 30 seconds. |
| EAC3AU | Visual Examination | No friction ridge detail observed. |
| | DFO | Sprayed the item with DFO. Allowed the DFO (Petroleum Ether base) to dry. Then placed into a heat/humidity chamber for 20 minutes at 100 degrees Celsius with ambient humidity. |
| | Alternate Light Source | Visualized the item at 475nm and observed friction ridge detail in quadrant C. I then photographed the developed friction ridge detail. |
| | Ninhydrin | Sprayed the item with Ninhydrin. Allowed the Ninhydrin (Petroleum Ether base) to dry. Then placed into a heat/humidity chamber for 5 minutes at 75 degrees Celsius with added humidity. No improvement in the friction ridge detail was observed nor was any additional development observed. |
| EAWQMH | Visual Examination | Item examined for any patent prints |
| | Ninhydrin | Ninhydrin processing conducted - observed possible area of a latent print. Area C |
| | Photoshop | Item enhanced with photoshop examination print observed |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| ECUDR7 | Visual Examination | Visually examined evidence using oblique lighting |
| | Alternate Light Source | Examined evidence using 520nm laser, 445nm laser, and 365nm UV |
| | 1,2-Indanedione | Applied IND to evidence let dry in fume hood before placing in oven for 20 minutes, followed by a visual and 520nm laser examination. |
| | Ninhydrin | Applied NIN to evidence and let dry in fume hood before placing in humidity chamber for 15 minutes, followed by a visual examination of evidence. |
| | Physical Developer (PD) | Placed evidence in Tray 1 (maleic acid solution) for 10-15min, Tray 2 (PD working solution) for 10-15min, and Tray 3 (de-ionized water) for an initial rinse of the evidence, followed by a second rinse with running tap water and drying with heat press. Visually examined evidence after drying |
| ER64P6 | Visual Examination | White light, blue light with yellow glasses, green light with red glasses. No print visible. |
| | 1,2-Indanedione | Processing time 10 minutes at 100 C. No print visible in green light with red glasses. Print somewhat visible in green light with bandpass filter and orange glasses. |
| | Ninhydrin | Processing time 2 minutes at 80 C and 62%RH. Print somewhat visible after processing. |
| EV9LFL | Visual Examination | |
| | Alternate Light Source | ALS: 365nm, 350-380nm, 445-510nm |
| | Laser | Laser: 532 nm |
| | 1,2-Ind-ZnCL | 1,2-IndZnCL: Humidity chamber for 20 mins at 80 C, 65%RH |
| EW7WBP | Visual Examination | A visual examination was completed of this item in its entirety and a general description was notated on the Forensic Processing Worksheet. |
| | Ninhydrin | Ninhydrin (special formula) was utilized to process this item. This type of ninhydrin was used specifically due to the substrate being inked. The item was saturated via the ninhydrin spray bottle and left to dry. Once dry the item was steamed with a steamer and visualized. A second application of ninhydrin was applied and the item was steamed a second time. The item was then left to dry overnight. The next day ridge detail was observed. A third application of ninhydrin was applied and the item was steamed in attempt to enhance the ridge detail observed. This item was processed with a QC and it showed the process worked correctly. |
| FD2ZZ6 | Visual Examination | |
| | Alternate Light Source | various wavelengths with appropriate filters |
| | Ninhydrin | used steam after - let set for three days |
| FEHXM3 | Visual Examination | No latent printed detailed observed through visual examination. |
| | Iodine Crystal Ampoules | The sheet of paper was placed in a plastic bags with Iodine Crystal Ampoules, the ampoules broken and the bag was sealed. |
| | Ninhydrin | We wait approximately 20 minutes, it is removed and we proceed to apply Nynhydrin and no result. |
| | Alternate Light Source | Light UV and no visible. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| FJDRMP | Visual Examination | A visual inspection was performed, no fingerprint was identified. |
| | Alternate Light Source | A visual inspection was performed using alternating white and violet light, no fingerprint was identified. |
| | Powder Dusting | Black magnetic powder was used for fingerprint development, negative result for fingerprint |
| FMGJVP | Ninhydrin | Used liquid Ninhydrin. Allowed to dry / heat & moisture used. No Prints |
| FPZJQC | Ninhydrin | processing time: 48 hrs. dye stain: Ninhydrin. the reaction needs humidity and dark place |
| FQWBLH | Ninhydrin | |
| FRNCLE | Visual Examination | |
| | Photocopy | After photocopy, I removed the paper from the cardboard |
| | Powder Dusting | CMB |
| | DFO | Chemical: DFO ID #: 22-0035 |
| | Ninhydrin | Chemical: Ninhydrin ID #: 22-0036 |
| | Steam | Steam was applied to paper Item 1 after Ninhydrin |
| | Time | After negative results from the steam, Item 1 was given time to develop a potential print |
| FT2LWZ | Visual Examination | It begins with a visual inspection of the piece of evidence to locate papillary ridges. |
| | Alternate Light Source | Subsequently, the search is carried out with alternating white and ultraviolet, but no papillary ridges are located. |
| | Iodine Crystals | Iodine crystals are used, about five (5) minutes, but not developed. Let the white paper rest divided into sections for ten (10) minutes. |
| | Ninhydrin | Ninhydrin is used, heat is applied and allowed to dry for about 15 minutes, but not developed. |
| FY8D8J | Visual Examination | |
| | Alternate Light Source | Examined at 350nm and 515nm |
| | Ninhydrin | Immersed in Ninhydrin. Left at room temperature inside fume hood, ridge detail visible the following day |
| G32X4E | Ninhydrin | Ninhydrin Lot# 071422-01 Caron Chamber: 75 Degrees Celsius, 80 Percent Humidity Test Print Positive |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| G4Y9YG | Visual Examination | daylight, white light (halogen), then Crimelite 4x4 white lite, and the blue, cyan and green light observed through orange filter |
| | DFO | working solution based on HFE7100, with metanol, ethyl acetate and acetic acid; after applying the solution and letting the item to dry it was incubated in the temperature 200F for fifteen minutes. then observed in green light through orange filter |
| | Ninhydrin | working solution based on HFE7100, with methanol, ethyl acetate and acetic acid; after applying the solution and letting the item to dry it was incubated in the temperature 200F for fifteen minutes. Then observed in white light both halogen and daylight. |
| GA332P | Visual Examination | Visually inspected the surface of the gray colored paper for any visible friction ridge detail |
| | Ninhydrin | Sprayed the gray colored paper with Ninhydrin and subjected it to vapors from an iron with distilled water. |
| GEFTLY | Visual Examination | At 8:30am, the evaluation of the piece begins and it does not show visible ridges. |
| | Alternate Light Source | After having no result with visual evaluation, the inspection was carried out by means of alternate light, giving negative result. |
| | Iodine crystal Ampoules | Using the iodine crystal ampoules, paper withe is placed in transparent plastic bag and iodine crystals are placed, leaving them to act for about 9 minutes, but there was no development. Let the paper withe rest for about ten 20 minutes. Try another method. |
| | Ninhydrin | Spraying all over the paper and to speed up the process, heat it with a hair dryer for approximately 10 minutes. I don't develop. |
| GKHWDH | DFO | Item submerged in DFO solution, air dried, heated in oven at 100 degrees C for 20 minutes. |
| | Ninhydrin | After treatment with Ninhydrin, used steam from iron to process paper. |
| GNMMHD | Visual Examination | Nothing was visible with the naked eye. |
| | DFO | Used DFO, followed procedure by letting it dry and applying heat. Then looked under ALS and did not find a positive reaction in any quadrant. |
| | Ninhydrin | Applied Ninhydrin, followed procedure by letting it dry and applied a little steam to see if a reaction would occur. No immediate reaction occurred. Waiting at least 5 days to check again for a reaction. During visual examination, I could see an extremely light pink reaction in Quadrant C. I was able to see a very light circular outline of where the print was located and could see approximately 3 lines of ridges on the top right section of the print. Tried to capture the print in a photograph and wasn't able. Continued to wait until the 10th day per procedure, to see if any further development would occur. |
| GPKYR | DFO | DFO (SV2022-DFO-4) dyed stained and then placed in the caron chamber at 100C for 20 min. |
| GUTYYJ | DFO | Heat for 20 minutes at 100 degree C. |
| | Ninhydrin | |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| HBRRNP | Dye Stain | Stained with DFO; developed in the caron chamber (100C, 0% humidity, 20 min) |
| | Alternate Light Source | Forensic Laser - Green light |
| | Ninhydrin | Stained with ninhydrin; developed in the caron chamber (80C, 70% humidity, 15 min) |
| | Visual Examination | Viewed in natural light |
| HFFG6T | Visual Examination | White light, UV |
| | 1,2-Indanedione | 160°C, 10 sec |
| | Ninhydrin | RT, 72h |
| HHCVN6 | Visual Examination | Item viewed under white light, flashlight, CrimeScope ALS, and TracER laser |
| | 1,2-Indanedione | 1,2-Indanedione was applied to the item and developed in an oven at 90 degrees C for 20 minutes. Item was viewed under the TracER laser. When very faint ridge detail was observed, the print was left overnight to see if further development would occur. |
| | Ninhydrin | Ninhydrin was applied to the item and developed in a humidity over at 90 degrees C and 80% humidity for 20 minutes. |
| HWW8C9 | Visual Examination | |
| | Alternate Light Source | |
| | 1,2-Indanedione | |
| | Ninhydrin | |
| | Physical Developer (PD) | |
| HXMJUE | Visual Examination | Visual Exam with high intensity white light. No visible ridge detail observed. |
| | 1,2-Indanedione | 1,2-IND with Laser (90 min at 50c/60% Humidity, Orange Filter, control positive) Light/Limited ridge detail observed; Insufficient for preservation. (observed on quadrant C) |
| | Ninhydrin | Ninhydrin (90 min, 26.6c/Humidity 80%, control positive) No visible ridge detail observed. |
| J22CTK | 1,2-Indanedione | IND-ZnCl - HUMIDIFIED WITH STEAM IRON |
| J6UPYG | 1,2-Indanedione | |
| | Ninhydrin | |
| J6YXCA | Ninhydrin | the item was sprayed with ninhydrin and kept in the oven with humidity for 10 minutes. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| J92T36 | Visual Examination | The item was visually examined with the naked eye and then oblique lighting. Nothing was observed at this point. |
| | Alternate Light Source | The item was then viewed under the forensic light source (FLS) to look for any inherent fluorescence. Nothing was observed. |
| | Iodine Fuming | I used an Iodine fuming wand next. No prints were observed with this method. |
| | DFO | DFO and Forensic Light Source (FLS). The paper was saturated with DFO, dried, and then processed in a humidity chamber for approximately 15 minutes. One print was observed with the FLS in section C. Ninhydrin (Petroleum Ether) was then applied. |
| | Ninhydrin | Ninhydrin (Petroleum Ether) was then applied to the item. Once dry, the item was placed in the humidity chamber for approximately 5 minutes. One print was observed in section C. |
| J9G6RW | Visual Examination | First we did visual check with light sources (UV, Blue, Blue/Green, Green, Violet). No results. |
| | 1,2-Indanedione | We processed sample with 1,2 Indanedione and we put item to Nincha cabin. Temp. 65, hum. 65%. 30 min. |
| JDTCT2 | Visual Examination | Performed VIS utilizing oblique lighting. |
| | Alternate Light Source | Utilized 520nm LASER, 445nm blue light and 365nm UV. |
| | 1,2-Indanedione | Placed in the oven for 20 minutes then utilized 520nm LASER. |
| | Ninhydrin | Placed in humidity chamber for 15 minutes then performed visual. Visualized print. |
| | Physical Developer (PD) | Placed item in Maleic Acid for 10-15 minutes. Placed item in redox working solution for 10-15 minutes. Rinsed item with DI water then rinsed item with tap water. |
| JDV4J | Visual Examination | White Light |
| | Alternate Light Source | 365nm, 445-510nm |
| | 1,2-Indanedione | 532nm (laser) |
| JJ3JJ7 | Visual Examination | |
| | Ninhydrin | Test print was confirmed prior to processing evidence with Ninhydrin. I submerged the sheet of paper in a Pyrex dish containing Ninhydrin. I hung the paper in a vent hood overnight. The next day, no latent print detail was present so I submerged the sheet a second time. Three days later I re-examined the paper to find ridge detail present in section C. I utilized a steam iron on the paper to darken the detail. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| JKXUQ3 | Visual Examination | Performed visual examination with white light, alternate light source, laser. |
| | 1,2-Indanedione | Sprayed Indanedione on the paper. Waited 20-30 minutes. Applied heat by ironing the paper. |
| | Visual Examination | Performed visual examination of the developed latent print using LASER. |
| | Ninhydrin | Sprayed Thermal Ninhydrin and placed it in the humidifier chamber for 40 minutes. |
| | Visual Examination | Performed visual examination with white light and alternate light source. |
| JL69VM | Ninhydrin | Ninhydrin at 70% Humidity and 80C in CARON Chamber |
| JLN22Q | Ninhydrin | Item was treated with ninhydrin spray and left to dry at room temperature for approximately 7 minutes until fully developed. |
| JNFXR7 | Visual Examination | Item was examined under a magnifier with a light. No ridge detail was observed. |
| | Iodine | I placed a small amount of Iodine crystals into a plastic bag along with the item. I shook up the crystals in the bag with the item. I observed the purple gas from the crystals fill the bag. After a few seconds I released the gas from the bag and removed and examined the item under a magnifier. No ridge detail was observed. |
| | DFO | I applied DFO to the item, after drying, I then used an iron to apply heat to the item for approximately 5-10 minutes. I examined the item using a FLS and a magnifier. No ridge detail was observed. |
| | Ninhydrin | I applied Ninhydrin to the item, after drying, I then used an iron to apply heat and humidity to the item for approximately 5 minutes. I examined the item using a magnifier and light. No ridge detail was observed. |
| | Silver Nitrate | I applied Silver Nitrate to the item, after drying, I then exposed the item to natural sun light. I examined the item using a magnifier and light. No ridge detail was observed. |
| JRUQAY | Ninhydrin | Ninhydrin with Acetone: A positive and negative quality control test was conducted and results were positive; the solution worked as expected. The newsprint paper was dipped in the ninhydrin with acetone solution and then allowed to dry in a fume hood. Once dry, the newsprint paper was moved to a heating cabinet for 3 hours. After 3 hours, the item was placed in a sealed plastic bag and placed in an evidence locker. |
| | Visual Examination | The following morning (18 hours after initial processing) the item was rechecked and a latent print had developed in Quadrant C. |
| JTR49C | Alternate Light Source | 455-515nm |
| | Ninhydrin | processing time ~24 hours, steam heat used for enhancement |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| JW8F6T | Alternate Light Source | White Light: The sample was inspected using a white light spectrum, it was illuminated obliquely in order to be able to appreciate any presence of a papillary ridge; I do not reflect presence. UV light: The sample was inspected using a 395nm UV light spectrum, it was illuminated obliquely using safety glasses, in order to appreciate any presence of a papillary ridge; I do not reflect presence. |
| | 1,2-Indanedione | A polyethylene bag was used, where the vial containing the iodine is broken to expose the document to its vapors. After 5 minutes, the presence of papillary ridges were not reflected. Live the document resting in a ventilated place for 10 minutes to continue with the development process. |
| | Ninhydrin | Work is proceeded on the HUD to avoid exposure to the Ninhydrin gases. The document is treated with the chemical, it is impregnated with it. It is left to rest for 5 minutes and heat is applied to the document, after 5 minutes, the presence of papillary ridges were not reflected in this document. |
| JW8HN7 | Visual Examination | |
| | Ninhydrin | |
| JYRL8W | Visual Examination | White light |
| | 1,2-Indanedione | Dipped and utilized humidity chamber for 10 minutes. Used with LASER |
| | Ninhydrin | Dipped and utilized humidity chamber for 10 minutes. Used with LASER |
| K22RLB | Ninhydrin | Ninhydrin with the addition of a steam iron (~ 3-4 minutes) to accelerate development |
| K2WDXP | 1,2-Indanedione | Climate chamber, Humidity: 80%, Temperature: 60 degrees Celsius, Duration: 20min |
| K3BYHC | Visual Examination | Looked over the paper to see if there was any ridge detail visible before chemical processing. Used a flashlight and fluorescent lights. |
| | Alternate Light Source | Used several wavelengths with the alternate light source (ALS) to see if any part of the item fluoresced and it did not. The ALS was tested and performed as expected before using it on the item. |
| | Ninhydrin | Applied ninhydrin to the paper and stored it in order to allow it to cure. Ninhydrin was tested and performed as expected before using it on the item. Steam was applied after the curing time of 72 hours in order to try and further develop ridge detail. |
| K7B64A | Visual Examination | Visual examination with Crimelite and TracER Laser |
| | DFO | Item incubated in oven @ ~100°C for 20 minutes. Item examined and latent print area photographed with TracER Laser and curved filter |
| | Ninhydrin | Item incubated in humidity chamber @ ~65% relative humidity and 80°C for 3 minutes. Item examined using Crimelite and Incandescent lighting. |
| KAU4DX | Ninhydrin | evidence objet 1 was treated by spraying ninhydrin (# A-2643) and allowed to dry at room temperature for an hour ,but did not develop the purple color , indicative of the presence of aminoacids. |
| KDUF9X | Ninhydrin | item # 1 was treated by spraying ninhydrin (#A-2643) and allowed to dry at room temperature for an hour aproximality, but did not develop the purple color to indicate of the presence of aminoacids. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| KHLR29 | Visual Examination | Visual Examination with a light source held at an oblique angle. Step 4) Processed with DFO and an ALS set at 450nm (Negative Results). Step 5) Processed with Ninhydrin(Negative Results) |
| | Alternate Light Source | Alternate light source (ALS) Examination. ALS set at 450nm |
| | Ruthenium Tetroxide | After passing a quality control check, the item was processed with Ruthenium Tetroxide (RTX). The chemical was applied using the fuming method. (Negative Results) |
| | DFO | After passing a quality control check, the DFO working solution was sprayed on the item. The item was allowed a sufficient amount of time to dry. The item was placed in a Gallenkamp Oven set at 100 Celsius for 20 minutes. The item was removed from the oven and examined with an ALS set at 450nm (Negative Results) |
| | Ninhydrin | After passing a quality control check, the Ninhydrin Working solution was sprayed on the item. The item was allowed a sufficient amount of time to dry. The item was placed in a Gallenkamp Oven with humidity. (Negative Results) |
| KHP6TB | Visual Examination | Viewed under magnifier and white light |
| | Ninhydrin | Applied running ninhydrin, avoiding black lines as much as possible. When dried placed into Caron oven when settings were at appropriate levels. Also used second control in Caron oven (first control tested prior to the application of the ninhydrin on the evidence). |
| KJEFQV | Visual Examination | visual examination of porous paper, no ridge detail observed |
| | Ninhydrin | Applied Ninhydrin to paper, let dry, applied second application, let dry |
| KMGDXH | Visual Examination | 11/30/2022: visual examination under ambient light |
| | Ninhydrin | 11/30/2022: spray/saturate with Ninhydrin Special Formula (1st round), air dry, steam, no ridge detail observed, sat overnight. 12/1/2022: no ridge detail observed, spray/saturate with Ninhydrin Special Formula (2nd round), air dry, steam, no ridge detail observed, sat overnight. 12/2/2022: no ridge detail observed. 12/6/2022: Very faint fingerprint observed in section C, spray/saturate with Ninhydrin Special Formula (3rd round), air dry, steam, no ridge detail observed and faint fingerprint was no longer visible, sat overnight. 12/7/2022: no ridge detail observed, spray/saturate with Ninhydrin Special Formula (4th round), air dry, steam, no ridge detail observed. Daily QC checks were positive within 10 minutes. |
| | Vacuum Metal Deposition | 12/7/2022: no ridge detail observed prior to VMD. Applied VMD with gold, then zinc, then silver. QC was run with item. QC positive and showed development. No fingerprint/ridge detail observed after VMD. 12/9/2022: Additional layer of zinc applied in VMD (with QC from 12/7/2022). QC was positive and showed development. Item examined with ambient and oblique lighting. No fingerprint or ridge detail was observed. |
| L8JLTT | Visual Examination | Different light |
| | 1,2-Indanedione | Solution with zinc. Climate chamber NINcha (temperature 100oC, humidity 60%, processing time 10min). DCS 5 (Crime light 4x8, wave length 490nm, filter 550nm) |
| | Ninhydrin | Climate chamber NINcha (temperature 60oC, humidity 70%, processing time 10min) |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| LBKPLF | DFO | Exhibit was processed by 1, 8-Diazafluoren-9-one (DFO) and placed in an oven at 100-degree C for 20 minutes |
| | Alternate Light Source | Exhibit was viewed using a 530nm/green forensic laser. |
| LCRZGJ | Ninhydrin | Ninhydrin was used for Newsprint paper for latent print processing. Lot#01212022KAD. EXP:01/21/2023. Submerged Newsprint paper in Ninhydrin for 10 seconds, put in humidity chamber for 45 mins. No prints developed. |
| LCTWUA | Visual Examination | visually examined utilizing flashlight |
| | Ninhydrin | developed with ninhydrin and heat activation utilizing hot iron |
| LGZGH7 | Ninhydrin | Photographs of the sealed evidence were taken, later, when it was opened, a photograph of the evidence was taken. Once with the photographic fixation, the type of surface is checked to carry out the application of the correct reagent. The application of ninhydrin was carried out, which is the reagent established by the laboratory for porous surfaces, the processing from the moment the evidence is opened until it is resealed is approximately 10 to 15 days for the development of fingerprints on this type of surface. |
| LH32WV | Ninhydrin | Ninhydrin aerosol spray, heat source used to help with development |
| LP48F4 | 1,2-Indanedione | Optical Examination using white light IND-ZN treatment used, preheated the dry press, soaked the item in the working solution till soaked through, item then dried in the fume hood and then heated for 10 seconds, using the Polilight excitation 505 wearing orange goggles. Due to a chemical issue nil development - paper was damaged. |
| | Ninhydrin | Even after the degradation of the paper I attempted to use Ninhydrin treatment by soaking the paper with the working solution, dried and allowed it to develop overnight in an exhibit cabinet. One looking at the paper the next day there were nil development. |
| LTY4Y4 | Visual Examination | white light |
| | Visual Examination | polylight 440 - 520 nm . orange filter |
| | 1,2-Indanedione | 520nm. orange filter |
| LUNPE8 | Visual Examination | Visual examination with lights (390 - 535 nm) and photography+ photoshop. No prints was found. |
| | Ninhydrin | 62 % moisture and 80C degrees, 6 min. operate time. Print was found in section C. |
| | 1,2-Indanedione | 65% moisture and 90C degrees, 15 min. operate time. Print didn't get any better. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| M2ALEG | Ninhydrin | Saturated paper with ninhydrin |
| | Air Dried | 3 minutes |
| | Steamed | Using a clothing iron with paper between two pieces of paper |
| | Visual Examination | No prints observed to have developed |
| | Ninhydrin | Resaturated paper |
| | Air Dry | 15 days |
| | Visual Examination | No prints observed to have developed |
| | Alternate Light Source | No prints observed to have developed |
| MC9KJ8 | Visual Examination | White light, Laser 532 nm, Laser 577 nm, FLS |
| | 1,2-Indanedione | 1,2,Indanedione/ZnCl ₂ (Ramotowski, 2009), Heating press 165°C – 10 seconds |
| | Alternate Light Source | Laser 532 nm – Orange filter |
| | Ninhydrin | - 4 g ninhydrin - 20 ml ethanol - 10 ml acetic acid - 70 ml ethyl acetate - 900 ml petroleum ether 30 min : Temperature = 80°C, RH = 62% |
| | Alternate Light Source | White light and green light |
| MDEZZL | LPPM R7 | DFO/Caron chamber 20 min, NIN/Caron chamber 15min |
| METJL6 | 1,2-Indanedione | NINcha S31 Climate Chamber, temp. 65 celsius, RH 65%. Processing time 30 min. After processing, examination with green Light Source 480 - 560 nm. |
| | Alternate Light Source | |
| MJQU84 | Visual Examination | |
| | Cyanoacrylate Fuming | |
| | DFO | 555nm/red |
| | Ninhydrin | 3 days development time |
| MK2PVG | Ninhydrin | Saturated paper, allowed to dry, applied heat and steam. |
| MK6B9P | Visual Examination | No ridge detail. |
| | 1,2-Indanedione | Zn-Cl formulation. Activated with dry heat press at 160 C for 10 seconds. Laser viewing at 532nm with orange barrier filter. |
| | Ninhydrin | Developed with steam iron. No improvement to ridge detail. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| MMPC3B | Visual Examination | 1) Observation with the naked eye of the surface of the newsprint paper, under different inclinations. We observe a slight trace in the "B" box, but we do not observe any papillary ridges. We don't see any other traces elsewhere. |
| | Alternate Light Source | 2) We illuminate the support with the Crimescope MCS-400 at different frequencies with the appropriate colored glasses and at different inclinations. The slight trace is observed in box "B" with wavelength 530. We don't see other traces elsewhere. |
| | 1,2-Indanedione | 3) In view of porous support, we vaporise the solution 1,2-Indanedione, under a hood, on the newsprint paper, then we wait 2 minutes for evaporation of the solution. Then the object is placed under a heating press at 165°C during 10 seconds. The solution 1,2-Indanedione is tested in parallel on a control. |
| | Visual Examination | 4) We observe a fingerprint, with the naked eye, in the box "C", colored in pink. We can determine the type of trace pattern. We don't observe other traces elsewhere on the object. |
| | Alternate Light Source | 5) We observed the newsprint paper with crimescope MCS-400 at CSS filter and orange filter glasses for observation. The fingerprint in box "C" is luminescent. We can clearly determine the pattern type of the trace. We don't observe other traces elsewhere on the object. We observe the trace with other wavelengths but it does not give better results than with the CCS wavelength. |
| | Ninhydrin | 6) We spray the ninhydrin under a hood on the newsprint paper, then we wait 2 minutes for the solution to evaporate. Then the object is placed in a cuvette in the dark at room temperature with a beaker of water for 24-48 hours for a slow reaction. The object is checked regularly with the naked eye to verify the revelation of the purple fingerprint. The ninhydrin solution is tested in parallel on a control. |
| | Visual Examination | 7) We observe some ridges in the box "C" and colored in purple with naked eye. We don't observe other traces elsewhere on the object. |
| | Alternate Light Source | 8) The fingerprint in case "C" is illuminated under different wavelengths of the Crimescope, with glasses of appropriate colors, to get the best contrast. We don't observe other ridges. |
| MQNJQU | Visual Examination | At 8:39 am, the visual evaluation of the piece of evidence began, showing no results of detail ridges. |
| | Alternate Light Source | After having no result with the visual evaluation, the inspection was carried out by means of alternate light, giving negative results. |
| | Iodine crystals | Using the iodine crystal chemist, newspaper is placed in a transparent plastic bag and the iodine crystals are placed, leaving them to act for about five (5) minutes, but there was no development. Let the newsprint rest for about ten (10) minutes to proceed to use another method. |
| | Ninhydrin | Continue with Ninhydrin, spraying all over the paper and to speed up the process, heat it with a hair dryer for approximately fifteen (15) minutes. Giving a negative result, since there was no development. |
| MTFDUP | Visual Examination | flashlight; natural light |
| | 1,2-Indanedione | heat press @ ~160 degrees Celsius for ~ 10 seconds - laser light source @ 532 nm with Orange and A-FF1 barrier filters |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| MWZENC | Visual Examination | After visual exam, the item was processed with DFO, in oven for 20 min, viewed under LASER and photographed. |
| | DFO | in oven for 20 min. |
| | Ninhydrin | No further development |
| N7D3UU | Visual Examination | No visible prints. |
| | 1,2-Indanedione | Applied indanedione, allowed it to dry. Applied heat. |
| | Ninhydrin | Applied ninhydrin, allowed it to dry. Applied heat and humidity. |
| N9MW2F | Visual Examination | Examination of the photograph using different lights and observation filters. No fingerprint detectable. |
| | 1,2-Indanedione | Fingerprint-fragment in section C detected. No first-level pattern recognisable. |
| | Ninhydrin | The quality of the fingerprint did not enhance after the application of Ninhydrin. |
| NDF9X | Visual Examination | |
| | Alternate Light Source | |
| | 1,2-Indanedione | |
| | Physical Developer (PD) | |
| NPC3DF | Visual Examination | Ambient lighting and magnifier lamp. |
| | Alternate Light Source | CRIMESCOPE CS-16-500: 350 nm with clear goggles – 415, 445 nm with yellow goggles – 445, 455, 475, CSS, 495, 515 nm with orange goggles – 515, 535, 555, 575 nm with red goggles. |
| | Ninhydrin | The paper is immersed in ninhydrin (petroleum ether) in a tray for five seconds, then air dried for a few minutes in a fume hood. Heat and humidity is applied to the paper with a steam iron for a few minutes. This process of ninhydrin and applying heat/humidity is repeated three times (proper control development achieved every time). |
| | Visual Examination | Ambient lighting and magnifier lamp. Visual examination performed three times (once after each application of ninhydrin/heat and humidity). First time, no FRD observed. Second time, weak FRD observed. Third time, no improvement in FRD, but background noise appearing. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|--|--|
| NQAD9J | Ninhydrin | Control was performed before processing sample. Control includes drawing two circles on a clean piece of paper, one circle labeled "positive" and the other labeled "negative". While wearing gloves one drop of an artificial perspiration reagent (PLAP) was added to the "positive" circle. The "negative" circle was left empty. The control test paper was then submerged into Ninhydrin. Indirect heat was applied to the control test paper using an iron for about 1 minute. The "positive" circle changed to a violet color indicating the Ninhydrin works properly. The sample was removed from the packaging material and submerged in Ninhydrin. Indirect heat was then applied to the item using an iron for about 1 minute. No results observed. Heat applied for another 2-3 minutes, no result observed. The item was then placed in temporary storage to see if the Ninhydrin would process further at room temperature. The sample was revisited a week later on 11/11/22. No results were observed, no color change or latent print was observed. |
| NQMZB6 | 1,2-Indanedione Alternate Light Source Ninhydrin Visual Examination | |
| NVHXQN | Visual Examination Iodine Crystal Ampoules Ninhydrin | I photographed item before processing for documentation purposes. Iodine Crystal Ampoules was placed in a plastic bag with the item 3, i broke the ampoules and seal the bag. no latent print developed. i expose the item 1 to Nyhidrine spray and inspect letting to dry, no print were observed. |
| NWMGLB | Visual Examination Cyanoacrylate Fuming 1,2-Indanedione Ninhydrin | White, Blue and Green light |
| NYRC3T | Visual Examination Ninhydrin Physical Developer (PD) | Visually examined with magnify glass, with negative results. Dipped in Ninhydrin with methanol, air dried, and placed in humidity chamber on Ninhydrin setting for 30 minutes, with negative results. Placed in plastic and stored overnight. Visually inspected after 24 hours, no results. Redipped in Ninhydrin with Methanol, air dried, and placed in in humidity chamber on Ninhydrin setting for 30 minutes, with negative results. Dipped in Novec Ninhydrin, air dried, placed in plastic and let sit for 3 days before reviewing results. No reaction noted. Physical developer process and allowed to air dry before reviewing results. No reaction noted. |
| P94RLE | Ninhydrin | Soaked paper in ninhydrin allowed to dry. Processed with steam iron to develop possible prints. Completed controls for chemicals. Chemicals working properly. No prints developed. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| PAFAYT | Visual Examination | At 9:15 am, the visual evaluation of the piece of evidence began, showing no results of detail ridges. |
| | Alternate Light Source | After having no result with the visual evaluation, the inspection was carried out by means of alternate light, giving negative results. |
| | Ninhydrin | Continue with Ninhydrin, spraying all over the paper and to speed up the process, heat it with a hair dryer for approximately twenty (20) minutes. Giving a negative result, since there was no development. |
| PFJB28 | Visual Examination | |
| | Alternate Light Source | |
| | DFO | 20 MINUTES IN A 100 DEGREE CELSIUS TEMPERATURE CONTROLLED CHAMBER, NO HUMIDITY |
| | SILVER NITRATE | |
| PJLAF8 | Ninhydrin | Paper was submerged in a glass jar with Ninhydrin Lot 22.3, the placed in the heat/humidity chamber for about 20 min. The ridge detail was labeled N1 in Section C on the paper and was digitally captured. |
| PKE4U3 | Visual Examination | |
| | 1,2-Indanedione | 20 mins at 100C, ALS 505nm |
| | Ninhydrin | approx. 5 mins at 80C, 65% humidity |
| PUXH2L | Visual Examination | |
| | 1,2-Indanedione | 20 min w/ heat |
| | Ninhydrin | 30 sec w/ heat and humidity on a heat press and left over night |
| PXHKTR | Visual Examination | |
| | DFO | |
| | Ninhydrin | Two applications |
| Q8KAXY | Visual Examination | |
| | 1,2-Indanedione | Applied 11/15/22 |
| | Alternate Light Source | Viewed using laser light source-green (viewed on 11/15/22-negative, viewed on 11/22/22-negative) |
| | Ninhydrin | Ninhydrin Pet Ether (Applied and viewed on 11/22/22-Negative; Viewed on 11/29/22-Detail observed) |
| QGXXEF | Ninhydrin | post ninhydrin treated with humidity |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|---|---|
| QQWR96 | Visual Examination Ninhydrin | I performed a visual examination with natural and oblique lighting. After performing a quality control, I applied non-running ninhydrin to the item using a squirt bottle. After soaking the item, I hung the item up in the fume hood to dry. I then placed the item into the Caron chamber at a set temperature of 80 degrees Celsius and 65% humidity. After approximately 10 minutes, I began to see ridge detail develop. I left the item in the chamber for approximately 15 minutes after noticing the ridge detail was not developing any further. |
| QR8NLW | Visual Examination Alternate Light Source 1,2-Indanedione Ninhydrin Physical Developer (PD) | Used bright white light and oblique lighting. Used three light sources; Dual 77 (445nm and 520nm) and 365nm (UV light). Processed item with 1,2-Indanedione and let the item completely dry. Item was placed in the 100 degree Celsius oven for approximately 20 minutes. Used bright white light and 520nm (laser) to examine the item. Processed item with Ninhydrin and let the item completely dry. Item was placed in the 76% relative humidity chamber for approximately 15 minutes. Used bright white light to examine the item. Processed item with physical developer. Step 1; Item was placed in a maleic acid bath for 15 minutes and then Step 2; item was placed in a Redox Working solution for 15 minutes. Step 3; The item was placed in a distilled water rinse and then Step 4; rinsed with a second water rinse. Examined the item once it was completely dry using a bright white light and oblique lighting. |
| QVMB48 | Visual Examination 1,2-Indanedione Ninhydrin | WHITE LIGHT UV AND LASER |
| QYRRTY | Visual Examination Alternate Light Source 1,2-Indanedione Ninhydrin Physical Developer (PD) | Visual exam using oblique lighting. Exam using 520nm (Dual 77), 445nm (Dual 77), and 365nm UV. Placed in oven for 20 minutes, then performed visual exam and exam using 520nm (Dual 77). Placed in humidity chamber for 15 minutes, then performed visual exam. Visualized print. Placed in maleic acid solution for 15 minutes. Placed in Physical Developer working solution for 15 minutes. Rinsed with water. Performed visual exam. |
| QZ73YJ | iodine crystals Ninhydrin | Inside a sealed enveloped it was worked with its vaporew until it developed. Spray on the until it dries. |
| QZLKEA | Visual Examination Alternate Light Source Laser Ind-ZnCl Ninhydrin | ALS- 365nm 495nm CSS 445-510nm 532nm 20min at 70 C, 65%RH Observed at 445-510 nm 20 min at 70C, 65% RH |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| R6WWBB | DFO | Dry heat 100 C for 15 minutes. |
| | Ninhydrin | Steam iron |
| RA788B | Ninhydrin | Solution applied onto item until coated. Allowed to air dry then humidity was applied using an iron. |
| RAAUKH | Visual Examination | No ridge detail observed |
| | 1,2-Indanedione | Heat and moisture applied via steam iron; no visible development - requires further use of ALS to visualize any development |
| | Alternate Light Source | Single impression observed in section C: very faint and partial ridge detail - requires further use of LASER to better visualize ridge development |
| | LASER | Single impression observed in section C was visualized with more detail |
| RN2PLN | Visual Examination | White Light |
| | 1,2-Indanedione | Humidity/LASER |
| RQAWQ2 | Visual Examination | |
| | Alternate Light Source | |
| | DFO | temperature - 100 Celsius degrees. time - 10 minutes |
| | Ninhydrin | temperature - 80 Celsius degrees. humidity - 62 %. time - 10 minutes |
| RYGJXG | [No Methods Reported.] | Visual examination Ninhydrin spray |
| T8B6KU | Visual Examination | |
| | Alternate Light Source | |
| | 1,2-Indanedione | |
| | Physical Developer (PD) | |
| T8UQDK | Ninhydrin | Ninhydrin was applied on evidence item and kept in dark for seven days |
| T9RA8Y | Visual Examination | |
| | DFO | 20 minutes in chamber at 100C with no humidity. viewed with laser and ALS at 475 with orange goggles |
| | Ninhydrin | 10 minutes in chamber at 80C with 70% humidity |
| TBT8PE | Cyanoacrylate Fuming | Vacuum fumed with cyanoacrylate ester in cyvac for 45 minutes |
| | Ninhydrin | Sprayed with Ninhydrin, placed in caron chamber T=80C, Humidity=70% for 15 minutes |
| | Visual Examination | Test print positive |
| TEUDYH | Ninhydrin | Object #1 (item 1) was treated spraying Ninhydrin (#A-2643), and later allowed to dry at room temperature, already for an hour; it did not developed the purple color, that indicates the presence of Amino Acids (Fingerprint) |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|---|---|
| TFZYDH | Visual Examination 1,2-Indanedione Ninhydrin | Polychromatic light source (White, UV, Blue, Blue-Green, Green) (1,2-IND / ZnCl ₂) Processing time within climatic chamber (80°C ; 65% RH): Recovery time + 10 minutes. Processing time within climatic chamber (80°C ; 65% RH): Recovery time + 2.5 minutes. |
| TGL83E | Ninhydrin | treated exhibit with ninhydrin and let sit in exhaust hood for 24 hours. followed with a heat treatment and thorough visual examination. |
| TJPYX8 | 1,2-Indanedione | Hot press treatment for 10 seconds, Temperature=165°C |
| TPQF8T | Visual Examination 1,2-Indanedione Ninhydrin Physical Developer (PD) | Examined with white, blue and green light. No visible fingerprint. Processing time 10 min, temperature 100 degrees. No visible fingerprint. Processing time 2 min, 62% humidity, temperature 80 degrees. No visible fingerprint. Processing time 12 min. No visible fingerprint. |
| TPVTUN | 1,2-Indanedione | We dip Item1 (paper) in indanedione and then we put Item1 in Nincha M31 cabin - processing time was 15 min. Temperature was 75c and humidity was 65%. |
| TURD6Z | Visual Examination 1,2-Indanedione Alternate Light Source Ninhydrin | used side lighting / oblique lighting Used IND followed by heat / humidity chamber NINcha S31 (100 degrees C for 5 minutes) Laser (Bright Beam) exam at 532nm / used orange goggles Used NIN followed by heat / humidity chamber NINcha S31 (60 degrees C and 80% humidity for 20 minutes) |
| U9YZHM | Ninhydrin | The examination took place in the climacteric room: "NINcha", with the following conditions: temperature - 60 degree, humidity - 30%, time: 30 min, ninhydrine solution in acetone (5%). |
| UAWBEP | Visual Examination 1,2-Indanedione Ninhydrin | Green light (500-550nm), filter 549nm. Blue light (430-470nm), filter 476nm. Visual examination 10min in 100degrees. 2min in 80degrees |
| UAYXXN | Visual Examination 1,2-Indanedione Ninhydrin | Visual examination with white light Applied 1,2-Indanedione and allowed to dry. Exposed to heat for 45 second to 1 minute. Applied Ninhydrin and allowed to dry. 30 minutes in the humidifier and left over the weekend. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| ULPQ3Q | Visual Examination | No friction ridge detail noted |
| | Alternate Light Source | No friction ridge detail noted |
| | DFO | 25 minutes processing time. No visible friction ridge detail noted |
| | Visual Examination | No visible friction ridge detail noted |
| | Alternate Light Source | No visible friction ridge detail noted |
| | Ninhydrin | 20 minutes processing and development time |
| | Visual Examination | Visible friction ridge detail noted |
| | Alternate Light Source | Visible friction ridge detail enhanced |
| UM2GG2 | Visual Examination | A latent print was observed in box B, examined with green Crime lite and red filter. . Not suitable for determination. |
| | Cyanoacrylate Fuming | No latent print observed. |
| | Powder Dusting | No latent print observed. |
| | 1,2-Indanedione | A latent print was observed in box B, examined with green Crime lite and red filter. Not suitable for determination. |
| | Ninhydrin | No latent print observed. |
| UNC7V8 | Visual Examination | |
| | 1,2-Indanedione | temp. 90 C, humidity 5%, time 15 min |
| | Ninhydrin | temp. 21 C, humidity 80%, time 30 min |
| UPU4FJ | Ninhydrin | The reagent was applied according to specifications, the sample was kept in a fume extractor for a period of 24 hours, and no fingerprint developed. |
| UW8BP9 | Visual Examination | in natural light and light from forensic illuminator - no prints |
| | DFO | time 20 min., temp. 100°C - no prints |
| | Ninhydrin | time 20 min., temp. 70°C, Rh - 60% - a latent print was observed in section C |
| V2FULF | Ninhydrin | Lot #: 082522-01. Humidity: <65%. Temperature: 80 degrees C. Control Print: Positive. Processing Time: 3:00 minutes. Equipment Used: CARON |
| | Visual Examination | Slight purple coloration observed in section C, no ridge detail observed |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|--|
| V9EHYD | Visual Examination | Visual examination with white light source and with different light source examination: oblique light technique, spectroscopic technology, grazing light... No fingerprints detected |
| | Alternate Light Source | Examination with multi-spectrum forensic light: Poly-light ROFIN PL500R between the different light ranges from ultraviolet light to infrared light No fingerprints detected |
| | 1,2-Indanedione | Application 1,2 Indanedione- Zinc Chloride reagent procedure with oven (100°C) during 20 minutes. |
| | Alternate Light Source | Examination with multi-spectrum forensic light: Poly-light ROFIN PL500R between 490Nm- 550Nm Develop one latent fingerprint in section C. |
| | Ninhydrin | Application Ninhydrin- Petroleum ether reagent procedure with oven (80°C 65% humidity) during 20 minutes. |
| | Visual Examination | Visual examination with white light source: No fingerprints detected |
| | Physical Developer (PD) | Application Physical Developer reagent procedure: step 1, 15 minutes inside Maleic Acid solution + (step 2) 30 minutes Physical Developer solution + (step 3) rinse with tap water + (step 4) on 2 hours oven 40°C |
| | Visual Examination | Visual examination with white light source: No fingerprints detected |
| VF2FV2 | Visual Examination | ambient and fluorescent; no ridge detail observed |
| | Alternate Light Source | Crime scope, full range with and without orange filter; no ridge detail observed |
| | 1,2-Indanedione | Nincha chamber, 100 degrees C, no humidity, approximately 15 minutes |
| | Ninhydrin | Heat press, approximately 150 degrees C, approximately 4 10 second cycles |
| VF34A7 | Visual Examination | Natural light, white light, optical instruments. |
| | Alternate Light Source | Polilight PL 500, barrier filters, optical instruments. |
| | 1,2-Indanedione | Processing time: 10 minutes, temperature: 90°C. |
| | Alternate Light Source | Polilight PL 500 (505-530 nm light), orange barrier filter, optical instruments. |
| | Ninhydrin | Processing time - 72h, room temperature, dark place. |
| | Visual Examination | White light, optical instruments. |
| WU2AF | Visual Examination | under white light |
| | Alternate Light Source | fluorescence examination (350 nm - 650 nm under appropriate color barrier filters). Wavelengths ranging from 350 nm to 650 nm is a standard procedure applicable in our laboratory. |
| | DFO | baked in the chamber DFO at approximately 100°C for 10 minutes; fluorescence examination in alternate light source (505 nm - 530 nm under orange barrier filter) |
| | Ninhydrin | in the chamber with a humidity 65% and temperature 50°C for 10 minutes; visual examination under white light |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|--------------------------------|---|
| WLNFE | Visual Examination | Natural light used for visual examination. No friction ridge detail observed. |
| | Alternate Light Source | CrimeScope ALS utilized. No fluorescent friction detail observed. |
| | 1,2-Indanedione | Newspaper processed with IND. Processing time was approximately 20mins in the heat/humidity chamber. No friction ridge detail was observed. |
| | Ninhydrin | Newspaper processed with NIN. Processing time was approximately 20mins in the heat/humidity chamber. Some friction ridge detail was observed in the "C" quadrant. |
| | VMD - Gold/Zinc | Newspaper processed with VMD using the Gold/Zinc two-metal process. No friction ridge detail was observed. |
| WMELC6 | DFO | The newsprint paper was processed by 1, 8-Diazafluoren-9-one (DFO) and placed in an oven at 100 degree C for 20 minutes. |
| WPJC6D | 1,2-Indanedione | Photografic fixation were made with and without metric rule; after that the item was exposed to iodine vapor. |
| | Ninhydrin | The item was exposed to ninhydrin spray. |
| WT9H3G | Visual Examination | |
| | FSIS UV Light | |
| | Ninhydrin | Petroleum Ether based followed by heat and steam. |
| WV9TQ4 | Visual Examination | |
| | Alternate Light Source | 365 m., CSS, 495 nm, 535 nm, 555 nm, 575 nm, 532 nm green laser |
| | 1,2 Indanedione- Zinc Chloride | visual, 532 nm green laser, 70 C, 65% relative humidity (RH) for a minimum of 20 minutes |
| | Ninhydrin | visual, 70 C, 65% RH for 20 minutes minimum |
| X38TPW | Visual Examination | Crimelite, LASER |
| | DFO | 100 degrees Celsius for 20 minutes |
| | Ninhydrin | allowed 2 weeks for development |
| X4LZBD | Powder Dusting | Black magnetic powder |
| | DFO | Spray applied: 20 minutes @ 100 degrees Celsius, 0% humidity |
| | Ninhydrin | Spray applied: 3 minutes @ 80 degrees Celsius, 65% humidity |
| X82ERT | Visual Examination | Visual examination, Item was processed with DFO (20min in oven), viewed w/laser, photographed |
| | DFO | 20 min in oven |
| | Visual Examination | viewed w/laser |
| X8KB7D | Powder Dusting | black magnetic powder with negative results |
| | DFO | double dipped and dried in drying hood and processed in DFO chamber @ 100°C for 20 min with negative results. |
| | Ninhydrin | dipped and dried in ninhydrin solution and processed in chamber @ 80°C for 3 min with 65% humidity with negative results. |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| XA6C2Z | Visual Examination | Equipment: High intensity white light. No ridge detail observed. |
| | 1,2-Indanedione | 90 minutes/ 50 degrees C/ 60% Humidity. Control positive. Equipment: Humidity chamber and TracER laser. Faint ridge detail was initially observed but quickly faded upon observation. |
| | Ninhydrin | 90 minutes/ 26.6 degrees C/ 80% Humidity. Equipment: Humidity Chamber. Control Positive. No ridge detail observed. |
| XEVXJL | Visual Examination | |
| | Alternate Light Source | |
| | 1,2-Indanedione | temperature: 100 degrees Celsius, time: 10 minutes |
| | Ninhydrin | temperature: 80 degrees Celsius, humidity: 62%, time: 10 minutes |
| XFRC7E | Visual Examination | Examination in daylight and with forensic light sources with appropriate filters (light sources – POLILIGHT PL 500, PAGLAB MSA-810, VSC 400 Foster Freeman) |
| | DFO | Spraying item with DFO working solution, after drying – heating the item for 10 min in 95° C, viewing with forensic light sources in ~450-530 nm range + appropriate filters |
| | Ninhydrin | Spraying item with ninhydrin aerosol spray, after drying – heating the item for 90 min in 40 °C, 80% humidity, viewing in a daylight and with forensic light sources in white light and in ~350-530 nm range + appropriate filters, viewing again after few days |
| XG9AVX | Visual Examination | I performed a visual examination by looking at the item using natural lighting and oblique lighting at different angles to see if any ridge detail is present. |
| | Ninhydrin | Once I performed a quality control to ensure my chemical is working properly, I applied non-running Ninhydrin to the entire item using a squirt bottle and let the item completely dry. I turned on the Caron oven chamber and set the temperature to 80 degrees Fahrenheit and the humidity to 65% and waited till the proper temperature and humidity was met. I placed the item into the oven along with a control and waited approximately six minutes until purple ridge(s) developed and waited a few more minutes after that to ensure the developing process was completed. I turned the oven off and removed the item. |
| XMBJY6 | Amino acid reagent | 1,2-indanedione ZnCl w/humidity viewed w/ ALS Ninhydrin w/ humidity, viewed visually and w/ALS (365nm) |
| XWEMXM | Visual Examination | |
| | Forensic Light Sources | |
| | 1,2-Indanedione | |
| | Physical Developer (PD) | |
| Y28ZKW | Ninhydrin | 5 minutes Lot #071422-01 |
| Y7MM39 | Visual Examination | |
| | Ninhydrin | |

TABLE 2 - Item 1

| WebCode | Development Methods | Method Details |
|---------|--|---|
| YBC4BT | Visual Examination DFO Ninhydrin | ALS at 535nm with red goggles ambient temp. development |
| YF7226 | Iodine Crystals Ninhydrin | |
| YKDNJM | Visual Examination 1,2-Indanedione Ninhydrin | White, blue and green forensic lightsources. No fingerprint was observed. Fragments in box C. Fragments in box C. |
| YLCQLX | Visual Examination Ninhydrin 1,2-Indanedione | Item 1 was visually examined using direct and indirect light. No friction ridge detail was found. Item 1 was sprayed with Ninhydrin, placed into the controlled Caron Forensics fingerprint chamber for 20 minutes at 70% humidity and 70-degrees Celsius. No friction ridge detail was developed on item 1. The control for item 1 was positive for friction ridge detail. Item 1 was then sprayed with Ninhydrin a second time, placed into the controlled Caron Forensics fingerprint chamber for another 20 minutes at 70% humidity and 70-degrees Celsius. No friction ridge detail was developed on item 1. The original control for item 1 was also resprayed and showed positive results for friction ridge detail. A second new control was also used which also showed positive results for friction ridge detail. Item 1 was then sprayed with Indanedione and placed into the controlled Caron Forensics fingerprint chamber for 20 minutes at 70-degrees Celsius with no humidity. Item 1 was then examined using a laser light with orange filter. No friction ridge detail was developed on item 1. The original and second control for item 1 were sprayed with Indanedione and showed positive results for friction ridge detail. A new third control was used which was only sprayed with Indanedione and developed positive results for friction ridge detail. |
| YNZ3B3 | Ninhydrin | 3 min @ 80 degrees C, 65 % relative humidity |
| YQT3HE | Alternate Light Source | 2.Iodine cristal Ampoules Ref. No. A211C. 3.Ninhyrin spray Ref. A2643. 4. Silver Nitrate Spray Ref. A2674. 5. Powder Magnetic Black 50 minutes processing time |
| YTCBC8 | DFO | DFO Staining; image taken under laser |
| YUNYYT | Alternate Light Source 1,2-Indanedione Ninhydrin | 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) 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 C 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 1

| WebCode | Development Methods | Method Details |
|---------|-------------------------|--|
| YWGMMF | Visual Examination | Crime - lite MLD and ALS. No mark. |
| | Ninhydrin | Mark in sector C is visible. Mark is of poor quality. Pattern is probably whorl. |
| YY6YN7 | Ninhydrin | The sample was immersed in a tray of solution and processed in a humidity chamber for 5min at 80 degrees Celsius and 65%RH. |
| | Physical Developer (PD) | The sample was submerged in maleic acid bath for 15min before transferring to PD working solution bath for 15min. Finally, it was rinsed off with water and allowed to dry. |
| Z28CLX | Visual Examination | w/ white light |
| | FSIS w/UV light | |
| | 1,2-Indanedione | HFE with green laser to visualize |
| | Ninhydrin | HFE with white light to visualize |
| | Powder Dusting | black powder - with visual exam under white light. |
| Z9RFT2 | DFO | heat in 100°C oven for 20 minutes |
| | Ninhydrin | |
| ZGB6XZ | Ninhydrin | |
| | Powder Dusting | |
| ZGVRKN | Visual Examination | |
| | 1,2-Indanedione | applied 10/30/22 |
| | Alternate Light Source | viewed green laser (532 nm) 10/30/22; 11/7/22 |
| | Ninhydrin | applied 11/7/22, viewed 11/14/22 |
| ZJ29Q7 | Ninhydrin | A control test and test item were processed with ninhydrin at a distance of 8 inches away from the items. It was left for 24-hours at room temperature and humidity room conditions. |
| | Visual Examination | The items were visually examined. |
| ZKXJMA | LPPM R7 | |
| | Cyanoacrylate Fuming | CA fumed for 45 minutes, 20 minute curing |
| | Ninhydrin | Ninhydrin spray; placed in humidity chamber at 80C for 15mins. Print viewed via visible light. Treset prints were positive. |
| ZLFFNA | Visual Examination | |
| | Alternate Light Source | |
| ZXMAUT | Visual Examination | No visible detail |
| | 1,2-Indanedione | TracER Laser. 2 days. No visible detail |
| | Ninhydrin | 3 days processing time (x2). CARON Humidity Chamber. Reapplication of Nin. Ridge detail developed |

TABLE 2 - Item 1

WebCode Development Methods Method Details

Item 1 - Development Response Summary Participants: 244

Methods Utilized

| | | | |
|------------------------|-----|-----------------------|-----|
| Alternate Light Source | 85 | Physical Developer | 22 |
| Cyanoacrylate Fuming | 7 | Powder Dusting | 12 |
| DFO | 45 | Visual Examination | 182 |
| Dye Stain | 4 | Wet Powder Suspension | 0 |
| Ninhydrin | 207 | 1,2-Indanedione | 82 |

****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 |
|---------|------------------------|---|
| 27AWUM | Visual Examination | Visually looked at the item for any prints |
| | Alternate Light Source | Used 520nm Laser, 445nm Blue light, and 365nm UV |
| | Cyanoacrylate Fuming | Performed a visual examination and then used the RUVIS (254nm) |
| | Dye Stain | Used RMO on the item and used the 520nm Laser and 445nm blue light to visualize |
| 2F243T | Visual Examination | 11/1- ambient light |
| | Lumicyano fuming | 11/1- Fluorescent CA fuming using F&F 3000 fuming chamber auto settings |
| | Alternate Light Source | 11/1-Laser green wavelength- fluorescence diminished rapidly |
| | Rhodamine 6G | 11/2- Methanol + R6G powder |
| | Alternate Light Source | 11/2-Laser green wavelength |
| 2J6WZX | Visual Examination | Visual examination with and without oblique lighting revealed a friction ridge impression in section B. |
| | Powder Dusting | Black magnetic powder was applied which enhanced the friction ridge impression in section B. |
| 2JZKC2 | Cyanoacrylate Fuming | Visual examination (000-495); photography; basic yellow; humidity 80,6%; temperature 130°C |
| 2KE2F8 | Visual Examination | 11/04/2022 - Friction ridge detail was observed to be present in quadrant B. |
| | Cyanoacrylate Fuming | 11/04/2022 - Fumed in a CA-6000 chamber for 7 minutes. Friction ridge detail was observed to be present in quadrant B. |
| | Dye Stain | 11/04/2022 - Rhodamine 6G was applied to item 2. |
| | Alternate Light Source | 11/07/2022 - Item 2 was examined using an ALS set to 495nm and an orange barrier filter. One (1) area of friction ridge detail was developed in quadrant B. |
| 2M69WX | Powder Dusting | a visual examine was first initiated by applying black magnetic powder in which a latent print was developed in Section "B". |
| 2PRQTP | Visual Examination | |
| | Cyanoacrylate Fuming | Cyanoacrylate Fuming- 20 minutes, atmospheric |
| | Visual Examination | |
| | Dye Stain | Dye Stain-Basic Yellow 40 |
| | Laser | Laser |
| 2U2Z6R | Visual Examination | |
| | Powder Dusting | Black powder |
| 2VVNMM | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| 2YAG6F | Cyanoacrylate Fuming | Superglue fumed the plastic switch plate; latent observed in square B |
| | Powder Dusting | Magnetic powder used on the plastic switch plate; latent observed in square B |
| | Dye Stain | Ardrox used on plastic switch plate; latent observed in square B |
| 34YEBH | Visual Examination | Visual inspection - Natural light and laser. |
| | Cyanoacrylate Fuming | Fumed for three minutes, with hot water, 70 percent humidity. |
| | Dye Stain | Applied RAM dye stain and viewed with ALS at 475nm and with laser at 445nm. |
| 39C6NP | Visual Examination | Item 2 was visually examined with white light and magnification on 11/15/22. Ridge detail was observed in quadrant B. |
| | Cyanoacrylate Fuming | Item 2 was processed in the Misonix CA-3000 superglue fuming chamber on 11/15/22 with Lumicyano. Post processing visual exam with white light and magnification on 11/15/22. Ridge detail was observed in quadrant B. Post processing visual exam with the Foster+Freeman CrimeLite 82s blue/green (450-510nm) and orange glasses on 11/15/22. Suitable FRD was observed in quadrant B, but could not be photographed due to weak fluorescence. |
| | Powder Dusting | Black magnetic powder was applied to item 2 on 11/15/22. Ridge detail was observed in quadrant B. |
| | Dye Stain | Item 2 was treated with Rhodamine 6G aqueous base on 11/15/22. Post treatment visual exam with the Foster+Freeman CrimeLite 82s blue/green (450-510nm) and orange glasses on 11/15/22. Ridge detail was observed in quadrant B. |
| 3DRRAG | Visual Examination | Did visual examination with white light. |
| | Cyanoacrylate Fuming | CAE in fuming chamber. Placed in chamber for 3 minutes |
| | Visual Examination | Did visual examination after CAE with white light. |
| | Dye Stain | Applied RAM Dye Stain to item, allowed to dry. |
| | Alternate Light Source | Viewed item with Fluorescent dye under ALS. |
| 4KA74E | Visual Examination | First I did an visual examination of the piece of evidence to identify the possible fingerprint. |
| | Alternate Light Source | I used an alternate light source to have a better visibility of the piece of evidence and the possible fingerprint. |
| | Powder Dusting | I proceeded to use powder dusting in the evidence to identify the possible fingerprint. The fingerprint was located in the letter B. |
| 4L3C47 | Visual Examination | oblique lighting used |
| | Alternate Light Source | 420-470 nm |
| | Cyanoacrylate Fuming | control: positive |
| | Powder Dusting | black powder used |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| 4PKCMR | Visual Examination | Oblique light. |
| | Alternate Light Source | At 455-515 nm wavelengths. |
| | Cyanoacrylate Fuming | for 20 minutes. |
| | Powder Dusting | Black powder. |
| 4PYL9 | Cyanoacrylate Fuming | visual examination under white light, in the evaporating humidity 70 % and temperature 20C for 3 hours |
| | Wet Powder Suspension | wet powder black under white light |
| 4VKUMC | Cyanoacrylate Fuming | A control test of cyanoacrylate fuming compound was performed prior to process the sample with positive results. The item was processed for 20 minutes in a cyanoacrylate fuming chamber and then visualized using a 254nm UV lamp and filter. |
| | Visual Examination | The items were visually examined. |
| 4WY6RW | Visual Examination | |
| | Cyanoacrylate Fuming | CA atmospheric chamber |
| | Ardox | Ardox dye stain |
| 4ZK34T | Powder Dusting | Used black magnetic powder |
| 4ZZ9L4 | Visual Examination | Item photographed and documented as received. Item examined with oblique lighting. Area of touch observed in Section B. |
| | Powder Dusting | Item processed using mag powder. Latent print developed. |
| 68C2XL | Cyanoacrylate Fuming | The visual inspection is carried out with the support of white light and a magnifying glass, element 2 is placed in a portable chamber applying cyanoacrylate vapors with a cyanoacrylate gun until the positive control is visible for 3 minutes, element 2 is applied black reagent of powdered latent print silk on surface of element revealing friction ridges in quadrant B |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| 6FPZHP | Visual Examination | 11/15/2022-visually examined switch plate divided into four sections |
| | Lumicyano | 11/15/2022-placed switch plated and glass slide with known print (QC) into MVC 3000 chamber, mixed with fluorophore (5.5 heaping scoops) with liquid super glue (90 drops) into a foil pan and placed on heating port, added molecular grade water into water port to start the auto cycle (humidity cycle-15 mins, glue cycle 25 mins, purge cycle 20 mins) once the fuming processed ended, I visually examined the glass slide and switch plate under a green laser and observed ridge detail in section B. Upon setting up the camera, I observed that ridge detail was diminishing. Will move forward with further processing. |
| | Rhodamine 6G | 11/15/2022-Under the fume hood, add 0.1g of Rhodamine 6G powder concentrate in a clean, dark vessel capable of holding 1000ml of liquid. Added 1000ml of methanol into a second vessel and slowly pour into the vessel holding the Rhodamine 6G powder while stirring the solution using a stir bar until powder is dissolved. Using the immersion method, the glass slide with known print QC that was used during the Lumicyano processing method was placed into the working solution for one minute then rinsed with methanol and allowed to air dry. Viewed QC under green wavelength laser to ensure positive result. Using the same immersion method, the switch plate was submerged into working solution, rinsed with methanol and allowed to air dry. Ridge detail improved. |
| 6GJNZK | Visual Examination | white light |
| | Alternate Light Source | polylight. 440 - 520 nm. orange filter |
| | Visual Examination | RUVIS |
| 6GPULN | Visual Examination | with TracER Laser & white CrimeLite |
| | Cyanoacrylate Fuming | Foster + Freeman MVC5000 auto process (~70 minutes) |
| | Dye Stain | Rhodamine 6G |
| | Powder Dusting | black powder |
| 6UAFKN | Visual Examination | Examined the item in natural light |
| | Alternate Light Source | Examined the item under different lights (Alternative Light Sources including white light and observed for any inherent fluorescence) |
| | Cyanoacrylate Fuming | MVC 3000 Chamber- Chamber #1 (test print positive). Cyanoacrylate Lot # 202202520. Glue Time 11 minutes. RH 80%. Hot Plate Temperature 120 degrees C (248 F) |
| | Visual Examination | Examined the item in natural light |
| | Alternate Light Source | Examined the item under different lights (Alternative Light Sources including white light and observed for any inherent fluorescence) |
| | Dye Stain | Cyanoacrylate Dye Stain: MBD(7-(P-Methoxybenzlamino-4Notrobenz-2-Oxa-1,3-Diazile) (test print positive). Lot # 072722-01 |
| | Alternate Light Source | Fluorescent light source used : blue in the wavelength of 420-470 nm (specifically labeled 445 nm). Along with a Yellow filter (labeled 476 nm) |
| | Powder Dusting | Use of Magnetic Powder Lot # 201504053-04 (test print positive) |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| 6WRNJN | Visual Examination | Visualized item with oblique lighting, detail was seen in Section B. |
| | Alternate Light Source | Visualized item using Coherent Tracer Laser. No detail was seen. |
| | Cyanoacrylate Fuming | Utilized a CA fuming chamber by placing the evidence in the ventilated fuming chamber and placed the appropriate amount of liquid CA in an aluminum dish (about a dime size). Also placed a control print inside. After processing, a latent print was located in section B. |
| | Dye Stain | Rhodamine 6G was then applied to the surface of the item and test print. The item was again viewed under the Coherent Tracer Laser, and the detail was visualized in section B and on the control print. |
| 6YF49X | Visual Examination | white light |
| | Alternate Light Source | range of light sources used: UV, BLUE and GREEN |
| | Cyanoacrylate Fuming | 120 C and 80% humidity, 15 minute glue cycle |
| | Dye Stain | Basic yellow, ethanol based |
| 7648GR | Cyanoacrylate Fuming | Cyanocryloate vapor in a smokin chamber for 10 minutes, then black magnetic power was applied. |
| 77GJR4 | Visual Examination | *Please note that gloves were worn at all times throughout this processing. Item 2 was first removed from its packaging and visually examined. Slight ridge detail was observed in quadrant "B" at this time. |
| | Cyanoacrylate Fuming | *Please note that gloves were worn at all times throughout this processing. Because Item 2 was observed to be plastic during visual examination, cyanoacrylate fuming was selected to use. A Cyanoacrylate fuming chamber was cleaned prior to use with isopropyl alcohol. A clean sheet of butcher paper was placed at the bottom of the chamber. A positive control was created utilizing black, non-porous cardstock and was hung from a clip inside the chamber. Several drops of liquid superglue (Lot#XT28419, Exp: 5/2023) were placed into a small metallic container, which was placed on top of a small heating plate inside the chamber. Sufficient water levels were observed in the machine. Item 2 was placed into the fuming chamber. The chamber was then closed and a fuming cycle was started. The control and item 2 were fumed for ten minutes at a 70% humidity level. Once complete, the chamber then purged the fumes for an additional ten minutes. Positive results were observed on the control. Item 2 was visually examined and ridge detail was clearly observed in the "B" quadrant. |
| | Powder Dusting | *Please note that gloves were worn at all times throughout this processing. In order to attempt lifting the observed ridge detail, black powder was selected to apply to item 2. The item was placed on a clean sheet of butcher paper and black powder was applied to the surface using a fingerprint brush. Ridge detail became clearly visible in the "B" quadrant. |
| 7ALAWX | Visual Examination | Cursory search of item using oblique lighting prior to processing. |
| | Cyanoacrylate Fuming | Item placed in superglue fuming chamber for approximately 20 minutes. Checked after 10 minute mark, then every few minutes until control standard (polymerization standard) developed. |
| | Powder Dusting | Item dusted with black latent print powder to further develop ridge detail. |
| 7BRJ2N | Powder Dusting | Black powder and brush were used. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------------|---|
| 7C6BRK | Visual Examination | I observed the plastic switch plate (item 2) under ambient light. No latent ridge detail was observed. |
| | Full Spectrum Imaging System | The plastic switch plate (item 2) was examined using the Full Spectrum Imaging System (FSIS) at 254 nanometers. I observed a latent of possible value in Quadrant "B". I photographed the latent using the FSIS camera. |
| | Cyanoacrylate Fuming | The plastic switch plate (item 2) was placed into a fuming chamber and fumed with heated cyanoacrylate (Superglue). I observed latent ridge detail in Quadrant "B". |
| | Full Spectrum Imaging System | The plastic switch plate (item 2) was examined using the Full Spectrum Imaging System (FSIS) at 365 nanometers. I observed a latent of possible value in Quadrant "B". |
| | Powder Dusting | I dusted the plastic switch plate (item 2) with black powder. I observed latent ridge detail in Quadrant "B". |
| 7KTBYG | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |
| | Dye Stain | RMO |
| 7NFU6L | Cyanoacrylate Fuming | |
| 7UPY88 | Powder Dusting | Object #2 (Item 2) was treated with Black Graphite Powder (#BPPO9128), already for one minute; developing later, a fingerprint. |
| 7W882Z | Cyanoacrylate Fuming | Cyvac w/ cyanoacrylate (#3027) for 1 hour with 20 minute purge. |
| | Dye Stain | Dye stained and viewed with forensic laser. Test print positive. |
| 7ZWFMM | Visual Examination | Magnification and oblique lighting used. |
| | Cyanoacrylate Fuming | Fuming chamber used - 72% relative humidity with run time of 13 minutes and 7 minute purge time. |
| | Dye Stain | Control and item processed with RAY. Control processed first and found to be acceptable. Item sprayed with RAY, rinsed off and dried. Viewed using ALS - see ALS. |
| | Alternate Light Source | Control and item viewed using blue (445) and green (532) laser with orange filter. |
| 82D9W3 | Cyanoacrylate Fuming | photografic fixations were made with a metric rule, it is introduced into the cyanoacrilate chamber for a proximately 40 minutes |
| 8CH9DG | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |
| | Dye Stain | |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|--|---|
| 8ETYVX | Cyanoacrylate Fuming | Viewed item 2, the plastic switch plate, using oblique lighting-could see partial print in "B" under overhead light-less so with flashlight-processed item in fuming chamber using cyanoacrylate fumes on a seven minute cycle at 80% humidity-control included (positive results on control)-processed item using magnetic fingerprint powder-print developed on "B" |
| 8JEBD8 | Visual Examination Lumicyano | White light, RUVIS 17 minutes at 75% humidity, hot plate at 250 degrees Fahrenheit. White light, RUVIS, LASER |
| 8TMFTH | Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain Wet Powder Suspension | 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 'B'. This was exhibited and photographed. 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 there were no further enhancements of previously developed marks. Item 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. A further enhancement of the previously developed mark was exhibited and photographed. Item 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. A further enhancement of the previously developed mark was exhibited and photographed. Item 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 there were no further enhancements of previously developed marks. |
| 8WMV8L | Visual Examination Cyanoacrylate Fuming Dye Stain Powder Dusting | Visually examined the evidence, using natural light source Used cyanoacrylate fuming tanking, getting the tank up to 80% relative humidity, fuming for 30 minutes with cyanoacrylate and purging the tank for 30 minutes (CA220720) used dye stain M-star on the latent print after cyanoacrylate fuming (MS221029), then used a crime scope to visually see the fluorescent latent print Dusted the latent print with latent fingerprint powder |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| 8ZM72Z | Cyanoacrylate Fuming | Cyano at 70% humidity for 15mins |
| | Powder Dusting | Black powder |
| 8ZQN46 | Visual Examination | Photographs taken of item as is. Visual examination done of the item with and without oblique lighting. An impression was observed in Section B. |
| | Powder Dusting | Black fingerprint powder was used and the impression previously observed in Section B was developed further. |
| 9JDLWG | Cyanoacrylate Fuming | 20 minutes |
| | Dye Stain | BY40 |
| 9KRXQF | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |
| | Dye Stain | |
| 9MCZHK | Powder Dusting | the item was brushed with black powder. |
| 9ZLMMC | Visual Examination | 5 minutes - Visual Examination with natural lighting |
| | Cyanoacrylate Fuming | 20 minutes process in fuming chamber. |
| | Alternate Light Source | 30 minutes utilizing white light on Foster Freeman DCS-5. |
| | Dye Stain | 3 minutes application of R.A.M., 10 minutes dry time. |
| | Alternate Light Source | 3 minutes - Foster Freeman Crime Lite 82S |
| | Powder Dusting | 2 minutes - Used Single Use brush to apply black powder. |
| | Visual Examination | 3 minutes - Visual Examination for results. |
| ABWJ3Y | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | 120°C +/- 5°, relative humidity 75% +/- 15% |
| | Dye Stain | R.A.M., 365 nm, yellow filter |
| AHL3EF | Visual Examination | white light, different angles |
| | Alternate Light Source | blue light 420-470 nm, filter 495nm green light 490-560 nm, filter 570nm |
| | Cyanoacrylate Fuming | 119 degrees celsius 80% RH 5 minutes |
| | Dye Stain | BY40 |
| AQBTX2 | Visual Examination | The item was visually examined using a white light and ambient light in room. Fingerprint no visible. |
| | Powder Dusting | The item was processed with magnetic black powder technique. Fingerprint observed in section B. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| AV99QH | Visual Examination | CrimeLite and LASER |
| | Cyanoacrylate Fuming | 70 min. cycle in Foster and Freeman MVC 5000 chamber |
| | Dye Stain | Rhodamine & LASER |
| | Powder Dusting | Black powder |
| B2M8MG | Visual Examination | Fingerprint was observed |
| | Cyanoacrylate Fuming | Humidity: 80%. Time: 15 minutes |
| | Powder Dusting | Non-mag Black powder |
| B3LHDH | Powder Dusting | Black powder applied with brush. |
| B4F7VD | Visual Examination | High intensity white light. |
| | Cyanoacrylate Fuming | Cyanoacrylate fuming chamber (12 minutes, 80% relative humidity). |
| | Alternate Light Source | Reflected Ultraviolet Imaging System (RUVIS). |
| | Dye Stain | Rhodamine 6G. Chemical lot: 22-1117AC. |
| | Alternate Light Source | TracER Laser. |
| BEAG82 | Visual Examination | I completed the initial visual examination to determine best processing methods for the item. I considered this item to be non-porous. I photographed the item prior to any processing. I used white light at an oblique angle and saw faint ridge detail in section B |
| | Alternate Light Source | I used the Alternate Light Source to determine if any fluorescing can be seen on the object, prior to processing. I saw faint fluorescing in section B, and photographed it. |
| | Cyanoacrylate Fuming | I use a chemical called Lumicyano in our fuming chamber. It is a combination of Cyanoacrylate Esters and Rhodamine 6G (a dye stain). This combines two separate processing steps into one, to minimize processing time. Like Cyanoacrylate esters, Lumicyano does requires the standard 80% humidity and the Lumicyano crystal/solution to be warmed. The item was fumed for 10 minutes in our mid-size chamber. |
| | Alternate Light Source | The Rhodamine 6G is a dye stain the fluoresces. After fuming with the Lumicyano, I examined the item with an ALS to see if the dye stain has adhered to any ridge detail. I photographed the fluorescing ridge detail. |
| | Powder Dusting | I used regular black powder with a fiber optic fingerprint brush. The powder adhered to the ridge detail developed during fuming. |
| BFAKUP | Visual Examination | With white light, and alternative light source |
| | Dark field | Dark Field - Transmitted light through 2 way mirror |
| | Cyanoacrylate Fuming | fuming chamber |
| | Dye Stain | basic yellow 40 |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| BJ8ZAY | Cyanoacrylate Fuming | 120 degrees Celsius. 80% relative humidity. 10 minute humidity time. 12 minute glue time. LOT# 042621-05. Positive test print with latent print standard pad, LOT# LPSP200 |
| | Powder Dusting | Magnetic powder LOT# 112719-01 |
| | Visual Examination | Print observed in area labeled "B" |
| BLX76H | Visual Examination | crimelight, UV light, and 530nm |
| | Cyanoacrylate Fuming | 70 minutes in superglue chamber |
| | Dye Stain | Rhodamine 6G |
| | Powder Dusting | Black powder |
| BX2UFY | Visual Examination | Use of Foster and Freeman white Crime Lite to examine treatment area. Faint ridge detail visualised within area 'B' of switch plate. Unable to photograph with white light due to lighting and camera unable to increase detail to a level where it could be captured. UV-R photography used with JENOPTIC 60mm Quartz Lens, Kenko 12mm extension tube on Nikon D800 camera connected to Foster and Freeman DCS5 imaging system. Mark visualised within area 'B' of switch plate. Further examinations taken place using UV, Blue Crime-Lite and Green Lazer, gave no further enhancement. |
| | Cyanoacrylate Fuming | Cna treatment of item using CNA cabinet 2 and (CNA/26). Item further photographed using DCS5 as above with UV-R, mark at section 'B' enhanced. |
| | Dye Stain | Item treated with Ethanol based BY40 stain. Consequently photographed using DCS5 set up for BY40 photography, mark at section 'B' enhanced further. |
| C2K2LD | Cyanoacrylate Fuming | Evidencia N°2: el tiempo de procesamiento en la cámara de ahumado de cianoacrilato fue de dos (2) horas, se utilizo tinte Amarillo Básico como complemento, el cual tuvo una duración de secado de tres (3) horas. [English translation of comments was not obtained by the time of report publication.] |
| C3FLLJ | Visual Examination | Visible print noted. |
| | Alternate Light Source | No further development of print. |
| | Cyanoacrylate Fuming | 20 minutes in the Cyanosafe and the print further developed. |
| | Powder Dusting | Black powder was used to dust and the print further developed. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| C3HBQG | Visual Examination | Used oblique lighting from a Crimelite flashlight (white light), then used a Coherent TracER LASER with a KV550 lens filter to image any potential latent print. Also, incandescent lighting was used to avoid any hotspots when imaging. These methods were applied to the front and back of the plastic switch plate. |
| | Cyanoacrylate Fuming | The item was placed inside a Foster & Freeman MVC-5000 superglue chamber, used 3 grams of cyanobloom (superglue) in heating element, and set an autocycle program for 70 minutes. Using a Crimelite flashlight (white light), oblique lighting was applied to the front and back of the plastic switch plate. |
| | Dye Stain | Rhodamine 6G was applied on the front and back of the plastic switch plate. A Coherent TracER LASER and KV550 lens filter was used to image any potential latent prints. After staining with Rhodamine 6G, the entire plastic switch plate was rinsed with methanol for better clarity. |
| | Powder Dusting | Black powder was applied on the front and back of the plastic switch plate. Oblique lighting from a Crimelite flashlight and incandescent lighting was used to image any potential latent prints. One tape-lift was obtained from quadrant "B" and placed on a tape-lift card labeled "L1". |
| C7YNMX | Visual Examination | A visual inspection was performed, no fingerprint was identified. |
| | Alternate Light Source | A visual inspection was performed using alternating white and violet light, no fingerprint was identified. |
| | Powder Dusting | Black magnetic powder was used for fingerprint development, positive result for fingerprint. |
| C8VXHZ | Powder Dusting | Evidence object 2 was treated for one minute with Black Magnetic Powder, Ref.No. A-2412W, developing a fingerprint. |
| C949CH | Visual Examination | |
| | Alternate Light Source | FSIS |
| | Cyanoacrylate Fuming | Fumed in Air Science Chamber for 30 minutes with 30 min purge at 80% humidity |
| | Dye Stain | Mstar dye stain applied with squirt bottle. Not rinsed |
| | Powder Dusting | Traditional black powder applied with a fingerprint brush |
| CDY6VH | Visual Examination | visually observed |
| | Lumicyano fuming | 8% solution of lumicyano solution and lumicyano powder used. Humidity cycle 80% RH 15 mins, Glue cycle-80% RH 120 degreed C 25 mins, Purge cycle-< 80% RH 20 mins |
| | Rhodamine 6G | Rhodamine 6G powder and methanol sprayed on item. Methanol used to wash excess stain, air dried |
| | Alternate Light Source | Bright beam laser green light 525nm wavelength |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|---------------------------------|--|
| CHR4CY | Visual Examination | First I did a visual examination of the piece of evidence to locate the possible fingerprint. |
| | Alternate Light Source | Then I used an alternate light source to have a better visibility of the possible fingerprint. |
| | Powder Dusting | To develop the possible fingerprint I used powder dusting. The fingerprint was located in the letter B. |
| CL7XX | Powder Dusting | (Fluorescent magnetic latent print powder) - Red Charge |
| CQZTY6 | Visual Examination | Natural light, white light. |
| | Cyanoacrylate Fuming | The latent print was developed 25 minutes (80 % - humidity) on a plastic switch plate. The latent print was recovered in section "B". |
| | Powder Dusting | Later black magnetic powder was used to enhance contrast of the latent print. The latent print was recovered in section "B". |
| CRVFC9 | Visual Examination | Forensic light (white, green, blue) |
| | Cyanoacrylate Fuming | |
| | Dye Stain | Basic yellow 40 |
| CUY4V6 | Visual Examination | White light. |
| | Cyanoacrylate Fuming | Cyanoacrylate fuming chamber "Air science safefume 48S". Cyanoacrylate B-83000. Humidity 80%, target temperature 85 degrees. Processing time 2 min. Room temperature 21,3 degrees |
| | Small particle reagent | SPR Black B-86000, BVDA. Item was sprayed for 5-6 seconds. |
| CV2M7M | Visual Examination | Ambient lighting. Flashlight/oblique lighting |
| | Cyanoacrylate Fuming | 71.5 degrees F / 68% relative humidity / run time approx 5 minutes. Exam post-CAE with ambient lighting and flashlight/oblique lighting |
| | Dye Stain | R6G dye stain. Exam post-R6G with green laser at approx 532nm with orange goggles |
| CVG46L | FSIS | viewed with FSIS under UV light |
| | Cyanoacrylate Fuming | fumed with superglue for about 1 hour (allowed to cure) |
| | Dye Stain | Saturated with RHO |
| CY3TMD | Visual Examination | Relative temperature of the processing room was 72.2 degrees Fahrenheit. Friction ridge detail was observed on the front of the white light switch cover in quadrant B. |
| | Cyanoacrylate Fuming | I superglue fumed (CA) this item in a Foster and Freeman MVC 3000 fuming chamber. |
| | Black Latent Fingerprint Powder | I conducted another visual examination and then further processed this item with the application of Black Latent Fingerprint Powder via a fiberglass brush. A developed latent fingerprint of value was seen in quadrant B. I then took photographs first before lifting. I then lifted the latent fingerprint of value and placed the lift onto a latent lift card. |
| D62PRV | Powder Dusting | black powder- one minute |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| D9FE6D | Visual Examination | White light |
| | Powder Dusting | Magnetic Jet Black |
| DRCRUE | Powder Dusting | Black Volcano latent print powder then black Magnetic powder. |
| E4MP4Z | Visual Examination | No Prints were observed. |
| | Cyanoacrylate Fuming | Left the item in a humid environment for 7 minutes. Fumed item for 7 minutes. Vented the environment. |
| | Powder Dusting | Dusted with magnetic powder. |
| EAC3AU | Visual Examination | Friction ridge detail observed in quadrant "B." |
| | Cyanoacrylate Fuming | Fumed for 6 minutes at 80% relative humidity. Friction ridge detail was still observed in quadrant "B." |
| | Powder Dusting | Used black magnetic powder and friction ridge detail was developed in quadrant "B." The friction ridge detail was photographed and then lifted. |
| | Dye Stain | Sprayed the item with Rhodamine 6G dye stain (Petroleum Ether base) and allowed it dry. |
| | Alternate Light Source | Visualized the item under 495nm of light. The same friction ridge detail in quadrant "B" was observed and was photographed. |
| EAWQMH | Visual Examination | Visual examination with non-destructive light examinations (UV, side lighting) |
| | Cyanoacrylate Fuming | Non-porous item followed by visual examination |
| | Dye Stain | Rhodamine 6G staining followed by visual examination - Print observed section B |
| | Alternate Light Source | Print observed section B |
| ECUDR7 | Visual Examination | Visually examined evidence using oblique lighting |
| | Alternate Light Source | Examined evidence using 520nm laser, 445nm laser, and 365nm UV |
| | Cyanoacrylate Fuming | CA fumed evidence then examined both visually and with 254nm RUVIS |
| | Dye Stain | Applied RMO to evidence then examined utilized 520nm laser and 445nm laser |
| ER64P6 | Visual Examination | Print visible in white light, somewhat visible in blue light with yellow glasses, not visible in green light with red glasses. |
| | Cyanoacrylate Fuming | Print visible after processing. |
| | Dye Stain | Basic Yellow 40. Print visible after processing. |
| EV9LFL | Visual Examination | |
| | Alternate Light Source | ALS: 365nm, 350-380nm, 445-510nm |
| | Laser | Laser: 532nm |
| | Cyanoacrylate Fuming | CA: 15 mins at 75-80%RH |
| | Ardrox | Ardrox ALS: 350-380nm |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| EW7WBP | Visual Examination | A visual examination was completed of this item in its entirety and a general description was notated on the Forensic Processing Worksheet. |
| | Lumicyano Fuming | This item was placed into a fuming chamber. A Lumicyano solution was utilized in the fuming chamber together with molecular grade water in order to move through the fuming processes of evaporation, saturation, absorption and polymerization. To go through the steps the fuming chamber entered three different cycles. The humidity cycle occurs first and is roughly 15 minutes long where the chamber attempts to reach roughly 80% humidity. The second cycle is the glue cycle which occurs for about 25 minutes at roughly 120 degrees Celsius. The third cycle is the purge cycle which occurs for about 20 minutes. This item was processed together with a QC. The QC showed the process worked correctly and ridge detail was observed on the item. However, with minimal time elapsed the ridge detail observed faded. |
| | Rhodamine 6G (R6G) | A solution of Rhodamine 6G was made with Rhodamine 6G powder and methanol. The Rhodamine 6G solution was applied to each quadrant the item was divided into with a brushing technique. Each quadrant was then brushed with a brush dipped into methanol to rinse the item off excess Rhodamine 6G without disturbing the ink on the item. The item was then observed with a laser utilizing a green wavelength and orange filters. This item was processed together with a QC and ridge detail was observed on the item. |
| FD2ZZ6 | Visual Examination | |
| | Alternate Light Source | various wavelengths with appropriate filters |
| | Cyanoacrylate Fuming | |
| | Dye Stain | Rhodamine 6G with ALS |
| FEHXM3 | Visual Examination | No latent printed detailed observed through visual examination. |
| | Powder Dusting | Black magnetic powder was used. A fingerprint was visible in section B. |
| FJDRMP | Visual Examination | A visual inspection was performed to identify dactyl print impression. |
| | Alternate Light Source | An inspection with alternating white and vivid light was performed to identify a fingerprint impression. |
| | Powder Dusting | Fingerprint impression was developed using black magnetic powder, resulting positive for fingerprint impression. |
| FMGJVP | Powder Dusting | Magnetic powder used. One print developed / lifted. Placed on [Laboratory] #74 lift card |
| FPZJQC | Cyanoacrylate Fuming | processing time: 30 min dye stain: super glue, MBD reaction needs 75-80 percent humidity |
| FQWBLH | Cyanoacrylate Fuming | |
| | Powder Dusting | |
| FRNCLE | Visual Examination | |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | Clean powder |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| FT2LWZ | Visual Examination | It begins with a visual inspection of the piece of evidence to locate papillary ridges. |
| | Alternate Light Source | Subsequently, a search is carried out with alternating light, locating a fingerprint fragment in quadrant B. |
| | Powder Dusting | Black graphite powder is used for the development of the fingerprint fragment, in quadrant B. |
| FY8D8J | Visual Examination | |
| | Alternate Light Source | Examined at 350nm and 515nm |
| | Cyanoacrylate Fuming | |
| G32X4E | Cyanoacrylate Fuming | Foster Freeman MVC 3000 Glue time 12 minutes Heat Plate 120 Degrees Celsius Humidity 80 Percent Cyanoacrylate Lot #202202520 Test Print Positive |
| | Powder Dusting | Black Magnetic Powder Lot #201504053-04 - Lift L02 Test Print Positive |
| | Powder Dusting | Standard Black Powder Lot #201804187 - Lift L03 Test Print Positive |
| G4Y9YG | Visual Examination | the same as in the case of Item 1. |
| | Cyanoacrylate Fuming | Incubation in the MVC3000 fuming cabinet, set to 120C and 80%RH. two passes, the first one five minutes of fuming (enough to develop control fingerprints on the plastic surface), but it resulted with only barely legible trace visible. Another pass was full cycle with 10 min. fuming, developed well visible fingerprint. |
| | Dye Stain | Ardrox (commercially available ready solution) after applying by spraying the excess rinsed with tap water. Observed afterwards in blue and cyan light, through orange filter |
| GA332P | Visual Examination | Visually examined the plastic tray for presence of friction ridge detail |
| | Cyanoacrylate Fuming | Tray was placed in the superglue chamber (set up: aluminum tray with superglue and distilled water). Visually examined the plastic tray for any white residue indicative of friction ridge detail |
| | Dye Stain | Plastic tray was subjected to the dye stain Rhodamine 6G and dye any possible friction ridge detail a yellow/pink color. |
| | Alternate Light Source | Using a laser at 532nm and orange filter goggles, visually examined the plastic tray for friction ridge detail |
| GEFTLY | Visual Examination | At 9:15am, begin a visual inspection of the piece of evidence by locating in section B a possible fingerprint fragment. |
| | Alternate Light Source | The corroborate the same result that the visual inspection, used an alternate light giving me location of a fingerprint fragment in section B. |
| | Powder Dusting | Use black graphite powder (Dual latent power), to develop fragment in section B of the evidence. |
| GKHWDH | Cyanoacrylate Fuming | Fumed in chamber. |
| | Dye Stain | Basic Yellow dye Stained. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|---|---|
| GNMMHD | Visual Examination Cyanoacrylate Fuming Magna brush with magnetic powder | |
| GPDKYR | R6G | Cyvac with cyanoacrylate (3027) and dyed stained with R6G (SV2022-R6GW-14) |
| GUTYYJ | Cyanoacrylate Fuming Dye Stain | Basic Yellow 40 |
| HBRRNP | CYVAC Dye Stain | Fumed in CYVAC; viewed with RUVIS & Obtained Stained with Basic Yellow; viewed and obtained with forensic laser - blue light |
| HFFG6T | Visual Examination Cyanoacrylate Fuming | White light, UV Lumicyano (CTS) Fuming cabinet MVC1000 (Foster+freeman) |
| HHCVN6 | Visual Examination Cyanoacrylate Fuming Dye Stain | Item viewed under white light, flashlight, CrimeScope ALS, and TracER laser Item was fumed in a Mystaire chamber for approximately 11 minutes at 80% humidity. Item was stained with Rhodamine 6G and viewed under the TracER laser |
| HWW8C9 | Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain | |
| HXMJUE | Visual Examination Cyanoacrylate Fuming RUVIS Dye Stain | Visual Exam with high intensity white light. Light/Limited ridge detail observed; Insufficient for preservation. Cyanoacrylate Fuming (11 min, 80% Humidity, Control Positive). Ridge detail was observed and designated as 2.01 from quadrant B, the area was preserved through digital imaging. Visual Exam with RUVIS Imager, Control Positive. No additional visible ridge detail observed. Area 2.01 was re-photographed. Rhodamine (R6G) with Laser (532nm, Control Positive, Orange Filter) No additional visible ridge detail observed. Area 2.01 was re-photographed. |
| J22CTK | Cyanoacrylate Fuming RAM | 1 HOUR VIEWED UNDER 520NM WITH ORANGE FILTER |
| J6UPYG | Cyanoacrylate Fuming Powder Dusting | |
| J6YXCA | Powder Dusting | the item was brushed with commercial black powder and a print was developed in section B |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| J92T36 | Visual Examination | The first step in processing is examine the item visually with the naked eye, then with oblique lighting. |
| | Alternate Light Source | The second step in processing is to examine the item with the forensic light source (FLS) to look for any inherent fluorescence. |
| | Cyanoacrylate Fuming | The item is the fumed in a chamber with superglue, for less than 5 minutes. |
| | Dye Stain | I chose to use Rhodamine 6G as my dye stain, and the item was visualized under the FLS. One print was observed in section B. |
| | Powder Dusting | Black powder was then applied to the item, and one latent lift was obtained from section B. |
| J9G6RW | Visual Examination | First we did visual check with light sources (UV, Blue, Blue/Green, Green, Violet). With UV-light we saw fingerprint in section B. |
| | Cyanoacrylate Fuming | We put sample to Foster&Freeman MVC 3000 cabin. 15 drop cyanoacrylate. 120 celsius, hum 80%, 15 min. |
| | Powder Dusting | We used magnetic powder. |
| JDTCT2 | Visual Examination | Performed VIS utilizing oblique lighting. |
| | Alternate Light Source | Utilized 520nm LASER, 445nm blue light , 365nm UV, and 254nm. |
| | Cyanoacrylate Fuming | Performed VIS then utilized FSIS II and 254nm. |
| | Dye Stain | Applied RMO then utilized 520nm LASER and 445nm blue light. |
| JDW4J | Visual Examination | White light |
| | Alternate Light Source | 365nm, 445-510nm |
| | Cyanoacrylate Fuming | Fume time: 15 min. Humidity set point: 80% |
| | Dye Stain | Ardrox, 365nm |
| JJ3JJ7 | Visual Examination | I was able to see ridge detail in Section B. |
| | Cyanoacrylate Fuming | A test print was placed in the Foster Freeman MVC 3000. |
| | Powder Dusting | I used black magnetic fingerprint powder to process the plate. One latent fingerprint of value, L-02, was found in section B. |
| JKXUQ3 | Visual Examination | Performed visual examination with white light, alternate light source, laser. |
| | Cyanoacrylate Fuming | Placed the item in an airtight superglue chamber with a humidity of about 70-78 for 3 minutes. |
| | Visual Examination | Examined for superglued prints using alternate light source and UV. |
| | Dye Stain | Sprayed fluorescent dye stain (RAM - Rhodamine G6, Ardrox, MBD) and let it sit for about 10 minutes. |
| | Visual Examination | Performed visual examination of the developed latent print using alternate light source & laser. |
| JL69VM | Cyanoacrylate Fuming | |
| | Alternate Light Source | UV Light |
| | Dye Stain | UV Light with Laser, no improvement |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| JLN22Q | Powder Dusting | Item was processed in about five minutes using magnetic powder and a feather duster. |
| JNFXR7 | Visual Examination | Item was examined under a magnifier with a light. No ridge detail was observed. |
| | Cyanoacrylate Fuming | I placed the item into a CA chamber along with a tin of CA on a warming plate and a container of hot water for humidity for approximately 10 minutes. No ridge detail was observed. |
| | Dye Stain | I applied MRM-10 dye stain on to the item. After drying, I examined the item using a FLS at 450nm with an orange filter. Ridge detail was observed and photographed. |
| | Dye Stain | I applied Basic Yellow dye stain on to the item. After drying, I examined the item using a FLS at 450nm with an orange filter. Ridge detail was observed and photographed. |
| JRUQAY | Cyanoacrylate Fuming | The plastic switch plate was placed in a cyanoacrylate vacuum chamber for two hours. |
| | Powder Dusting | Black Powder - the item was processed with black powder and a powder brush. |
| | Visual Examination | One latent print developed in quadrant B. |
| JTR49C | Alternate Light Source | 455-515nm |
| | Cyanoacrylate Fuming | vacuum fumed ~1 hour |
| | Powder Dusting | black powder |
| JW8F6T | Alternate Light Source | White Light: The sample was inspected using a white light spectrum; it was illuminated obliquely in order to be able to appreciate any presence of a papillary ridge; there is a presence of papillary ridges in area b. UV light: The sample was inspected using a 395nm UV light spectrum; it was illuminated obliquely using safety glasses, in order to appreciate any presence of a papillary ridge; there is a presence of papillary ridges in area b. |
| | Powder Dusting | I proceeded to work on the plastic plate using the Black Magnetic Graphite Powder, it is deposited in area B of the sample, making the papillary ridges visible in this area. The rest of the plastic plate was worked on and there was no more presence of papillary ridges in the sample. |
| JW8HN7 | Visual Examination | White light and FSIS |
| | Cyanoacrylate Fuming | |
| | Visual Examination | With FSIS |
| JYRL8W | Visual Examination | White light |
| | Cyanoacrylate Fuming | Used fuming chamber for approx. 20 minutes. White light. |
| | Powder Dusting | Bi-chromatic powder. White light. |
| | Dye Stain | Rhodamine 6G with LASER |
| K22RLB | Powder Dusting | Black powder |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|--|--|
| K2WDXP | Cyanoacrylate Fuming Powder Dusting | climate chamber: 80% humidity, 130 degree Celsius |
| K3BYHC | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting | Did a visual examination of the switch plate and ridge detail was observed in quadrant B. Viewed the item with an alternate light source using several wavelengths but the ridge detail did not fluoresce. Fumed the item with cyanoacrylate. The chamber was set at 75% humidity and was run for 15 minutes. No further development of the ridge detail was observed. The latent print standard in the chamber performed as expected. Magnetic powder was applied to the switch plate since cyanoacrylate fuming did not further develop the ridge detail. The magnetic powder was tested before applying it to the evidence and it performed as expected. |
| K7B64A | Visual Examination Cyanoacrylate Fuming Dye Stain Powder Dusting | Visual examination with Crimelite and TracER Laser. Two photographs of latent print area using Crimelite. Item incubated in F+F MVC-5000 autocycle for ~70 minutes. Item examined using Crimelite. One photograph of latent print area using Crimelite. Rhodamine 6G dye stain. One photograph of latent print area using TracER Laser and curved filter. Black power dust used. Examined with Crimelite and Incandescent lighting. One photograph of latent print area using Crimelite. |
| KAU4DX | Powder Dusting | Evidence objet 2 was treated for one minute with black magnetic powder, ref. No A2412W. developing a fingerprint. |
| KDUF9X | Powder Dusting | Item #2 was treated for one minute with black powder, developing a fingerprint. |
| KHLR29 | Visual Examination Alternate Light Source Powder Dusting | The item was examined with a white light source held at an oblique angle The item was examined with a Alternate Light Source set at 450nm The plastic Switch Plate was processed with a black fingerprint powder. |
| KHP6TB | Visual Examination Cyanoacrylate Fuming Powder Dusting | Viewed under magnifier and white light Placed into superglue chamber with boiling water, glue in tin tray on heat plate, and a control on plastic. Allowed item to fume for approximately 15 minutes. After viewing item, used regular black powder to dust item after superglue fuming |
| KJEFQV | Visual Examination Powder Dusting | visual examination of plastic switch plate applied magnetic powder |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| KMGDXH | Visual Examination | 11/30/2022: visual examination under ambient light |
| | Lumicyano fuming | 11/30/2022: Fumed in a Foster + Freeman MVC 3000 with reagent of 5.5 scoops of the Lumicyano powder mixed with 90 drops of the Lumicyano solution. Humidity cycle of 15 minutes with relative humidity increasing to 80%, followed by fuming cycle of 25 minutes with a relative humidity of 80%, followed by 20 minutes of a purge cycle. QC run with item, positive. |
| | Alternate Light Source | 11/30/2022: Ridge detail observed in section B under a laser light source (green/532nm), however ridge detail quickly faded away (5-10 seconds). QC positive under laser. |
| | Rhodamine 6G | 12/1/2022: Prepared a solution of 0.01g of Rhodamine 6G powder with 100 mL of methanol. QC positive under laser light source (green/532nm). Applied (painted) prepared solution onto section B of item. |
| | Alternate Light Source | 12/1/2022: Ridge detail observed in section B of item under laser light source (green beam/532nm). |
| L8JLTT | Visual Examination | Coaxial light (DCS 5, VSC 8000) |
| | Cyanoacrylate Fuming | MVC 1000 (RH 80%, superglue evaporation temp. 120oC, evaporation time 10min). |
| | Dye Stain | Basic yellow 40. The object was sprayed with yellow basic then rinsed with water). DCS 5 (Crime light 4x8, wave length 440nm, filter 490nm). |
| LBKPLF | Cyanoacrylate Fuming | Exhibit was processed by cyanoacrylate ester (superglue) under a vacuum for over 1 hour, allowed to cure. |
| | Dye Stain | Exhibit was dye stained with Rhodamine 6G (R6G) |
| | Alternate Light Source | Exhibit was viewed using a 530nm/green forensic laser. |
| LCRZGJ | Powder Dusting | Standard Black Powder was used w/ Fiber Glass Brush for Latent Print Processing on Plastic Switch Plate. One latent lift card collected for section B. |
| LCTWUA | Visual Examination | visually examined utilizing flashlight |
| | Cyanoacrylate Fuming | CA fuming utilizing superglue chamber |
| | Dye Stain | fluorescent-stained with R6G |
| | Alternate Light Source | visualized utilizing TRACER LASER |
| LGZGH7 | Powder Dusting | The photographic fixation of the sealed evidence was carried out and at the moment of opening it. First it was observed to see according to the type of surface and to establish the type of reagent that would be used. Once this was determined, a physical black reagent was used that contrasts with the color of the surface, revealing a lofoscopic fragment. Processing was done in approx. an hour, an hour and a half. |
| LH32WV | Powder Dusting | Cyanoacrylate Ester fuming - 15min Black powder with feather brush |
| LP48F4 | Cyanoacrylate Fuming | Optical examination was conducted. Then item was placed in the tank for Cyanoacrylate Fuming |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| LTY4Y4 | Visual Examination | white light |
| | Alternate Light Source | polylight. 440 - 520nm. orange filter |
| | Cyanoacrylate Fuming | 80RH%. 10 min process |
| | Visual Examination | RUVIS |
| LUNPE8 | Visual Examination | Visual examination with lights (390 - 535 nm) and photography+ photoshop. Light fingerprint was found in section B. |
| | Cyanoacrylate Fuming | Foster+Freeman MVC 3000, moisture 80%, 120C degrees and glue time 15 min. Print got much better and could be seen specially with Crime-lite 82S BLUE 420-470nm. Photography+ photoshop. |
| | Powder Dusting | Magnetic powder for improving fingerprint. Photography+ photoshop. |
| M2ALEG | Cyanoacrylate Fuming | Approximately 15 minutes |
| | Powder Dusting | Black magnetic powder |
| MC9KJ8 | Visual Examination | White light, Laser 532 nm, Laser 577 nm, FLS |
| | Cyanoacrylate Fuming | Luminescent cyanoacrylate CST (Fumigation chamber MVC 3000 FOSTER+FREEMAN - Automatic Mode) |
| | Alternate Light Source | LABINO Superxenon 325 nm + Yellow filter |
| | Dye Stain | Basic Yellow 40 |
| | Alternate Light Source | Crimelite 8x4 - FOSTER + FREEMAN (445nm) and Yellow Filter |
| MDEZZL | LPPM R7 | Visual inspection, imaged with RUVIS, fumed 15 min in safe fume then photod again. |
| METJL6 | Powder Dusting | At first Visual Examination and after that Carbon Powder. |
| | Visual Examination | |
| MJQU84 | Visual Examination | |
| | Cyanoacrylate Fuming | |
| | Dye Stain | R6G, ALS515nm/orange |
| MK2PVG | Powder Dusting | Processed item with magnetic black powder and magnetic wand. |
| MK6B9P | Visual Examination | |
| | Lumicyano | Visual examination of glue development. Laser examination of fluorescent glue development with a laser at 532nm with orange barrier. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| MMPC3B | Visual Examination | 1) Observation with the naked eye on the switch interrupteur surface, under different inclinations. We observe some ridges in case "B". |
| | Visual Examination | 2) We illuminate the support with the Crimescope MCS-400 at different frequencies with the appropriate colored glasses and at different inclinations. We don't observe trace. |
| | Cyanoacrylate Fuming | 3) In view of non porous support, we place the switch interrupteur in the fumigation tank. Autocycle for 2g of solution of Lumicyano 8% during 1 hour. A control trace is placed in the tank. |
| | Visual Examination | 4) We observe with naked eye a white deposit of Lumicyano on the switch interrupteur in case "B". We don't observe other traces elsewhere on the object. |
| | Alternate Light Source | 5) We illuminate the object using the Crimescope MCS-400 at different wavelengths and wearing glasses of appropriate colors. The fingerprint in the "B" box is even more visibly illuminated in CSS luminescent manner. We do not observe other papillary traces elsewhere on the object. |
| MQNJQU | Visual Examination | The piece of evidence is photographed as it was received and after removing it from the evidence envelope. I begin a visual inspection of the piece of evidence by locating in section B a possible fingerprint fragment. I started the process at 8:22 a.m. |
| | Alternate Light Source | To corroborate the same result that the visual inspection gave me, I used an alternate light giving me the location of a fingerprint fragment in section B. |
| | Powder Dusting | I use black graphite powder to develop the fingerprint fragment in section B of the evidence. |
| MTFDUP | Visual Examination | natural light; flashlight |
| | Cyanoacrylate Fuming | 60 % humidity. ~120 degrees Celsius. 15 minutes fuming |
| | Dye Stain | R6G diH2O based laser examination: 532 nm w/ orange barrier filter |
| MWZENC | Visual Examination | Visual (White and LASER), Atmospheric CA chamber for 20 minutes, then dye stained with R6G, viewed under LASER and photographed |
| | Cyanoacrylate Fuming | in chamber for 20 minutes |
| | Dye Stain | R6G |
| | Visual Examination | viewed under LASER |
| N7D3UU | Visual Examination | One photograph of a visible latent print on item no. 2, box B. |
| | Cyanoacrylate Fuming | Superglue fumed for 3 minutes. |
| | Dye Stain | Applied dye stain (RAM), allowed to dry. |
| N9MW2F | Visual Examination | Examination of the photograph using different lights and observation filters. Coaxial front illumination: Fingerprint was detected in section B |
| | Cyanoacrylate Fuming | 15 min of cyanoacrylate fuming / humidity 80% The quality of the fingerprint did not enhance after cyanoacrylate fuming. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| NDFA9X | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |
| | Dye Stain | RhoMeOH |
| NPC3DF | Visual Examination | Ambient lighting and magnifier lamp. |
| | Alternate Light Source | CRIMESCOPE CS-16-500: 350 nm with clear goggles – 415, 445 nm with yellow goggles – 445, 455, 475, CSS, 495, 515 nm with orange goggles – 515, 535, 555, 575 nm with red goggles. |
| | Cyanoacrylate Fuming | Cyanoacrylate fuming was performed in a CA-6000 at 65% relative humidity for 10 minutes. Removed to prevent overprocessing. |
| | Visual Examination | Ambient lighting and magnifier lamp. |
| | Dye Stain | RAM was applied using the squeeze bottle method; allowed to dry for a few minutes in the fume hood. |
| | Alternate Light Source | CRIMESCOPE CS-16-500: CSS with orange goggles. |
| NQAD9J | Powder Dusting | The item was first visually looked at. One latent print was visually observed in section "B". The sample was processed with black powder using a fiberglass brush. The latent print developed immediately after application. |
| NQMZB6 | Alternate Light Source | |
| | Visual Examination | |
| | Powder Dusting | |
| NVHXQN | Magnetic powder | I use magnetic powder with a magnetic brush, the fingerprint was visible clearly in section B. |
| NWMGLB | Cyanoacrylate Fuming | |
| | Dye Stain | BY40 |
| NYRC3T | Visual Examination | Latent print visible in section B. |
| | Cyanoacrylate Fuming | Fumed in CY-AT chamber for 15 minutes and allowed to rest for 30 minutes before processing. |
| | Powder Dusting | Black magnetic powder |
| P94RLE | Powder Dusting | Dusted plastic switch plate with black powder. Latent print developed in section B |
| PAFAYT | Visual Examination | The piece of evidence is photographed as it was received and after removing it from the evidence envelope. I begin a visual inspection of the piece of evidence by locating in section B a possible fingerprint fragment. I started the process at 9:50 am. |
| | Alternate Light Source | To corroborate the same result that the visual inspection gave me, I used an alternate light giving me the location of fingerprint fragment section B. |
| | Powder Dusting | I use black graphite powder to develop the fingerprint fragment in section B of the evidence. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| PFJB28 | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | BLACK MAGNETIC FINGERPRINT POWDER |
| | Dye Stain | MRM10 |
| | Dye Stain | RED DROX |
| PJLAF8 | Powder Dusting | I used black mag powder Valid to the white plastic switch plate. One area of ridge detail labeled MP1 was lifted from Section B on the front of the switch plate. I then used BP Valid to the switch plate with no enhancement. |
| PKE4U3 | Visual Examination | |
| | Cyanoacrylate Fuming | |
| | Dye Stain | Basic Yellow, ALS 415nm |
| PUXH2L | Visual Examination | |
| | Powder Dusting | |
| PXHKTR | Visual Examination | |
| | Cyanoacrylate Fuming | Visual exam with white light and Reflected UV Light |
| | Powder Dusting | Black Magnetic Powder |
| Q8KAXY | Visual Examination | |
| | Cyanoacrylate Fuming | approx 12 mins |
| | Dye Stain | Rhoadmine 6G Aqueous |
| | Alternate Light Source | Laser Light Source - Green-Detail observed |
| QGXXEF | Powder Dusting | Black powder |
| QQWR96 | Visual Examination | I performed a visual examination with natural and oblique lighting. |
| | Cyanoacrylate Fuming | I placed the item in a chamber. I added cyanoacrylate glue into an aluminum dish, which I then placed on the hot plate in the chamber. I also added a beaker of boiling water to the chamber to provide humidity. I turned the chamber on to heat the cyanoacrylate glue into a vapor. I left the item in the chamber for approximately 15 minutes. Once I saw my positive control turn white from the cyanoacrylate fumes, I turned off the hot plate and opened the vent to the chamber. I waited another 5 minutes, then I removed my item from the chamber. |
| | Powder Dusting | I applied black magnetic powder to the item using a magnetic wand. After taking a few passes over the item, ridge detail began to develop. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| QR8NLW | Visual Examination | Used bright white light and oblique lighting. |
| | Alternate Light Source | Used four light sources; Dual 77 (445nm and 520nm), FSIS (254nm) and 365nm (UV light). |
| | Cyanoacrylate Fuming | Placed item in a superglue chamber and then examined the item using oblique lighting, bright white light and FSIS (254nm) |
| | Dye Stain | Processed item with RMO, let the item completely dry and used two light sources; Dual 77 (445nm and 520nm) |
| QVMB48 | Visual Examination | WHITE LIGHT,UV LASER |
| QYRRTY | Visual Examination | Visual exam using oblique lighting. Visualized print. |
| | Alternate Light Source | Exam using 520nm (Dual 77), 445nm (Dual 77), and 365nm UV. |
| | Cyanoacrylate Fuming | Visual exam, then exam with RUVIS and 254nm UV. |
| | Dye Stain | Applied RMO, then performed exam with 520nm (Dual 77) and 445nm (Dual 77). |
| QZ73YJ | Powder Dusting | work for approximately one minute until the print is seen. I work with Black Magnetic Powder. |
| QZLKEA | Visual Examination | |
| | Alternate Light Source | ALS:365nm 495nm CSS 445-510nm |
| | Cyanoacrylate Fuming | CA: 20 minute fume time at 80% humidity |
| | Dye Stain | Dye: MBD observed at 445-510 nm |
| R6WWBB | FSIS | none required |
| RA788B | Cyanoacrylate Fuming | Placed item into an enclosed chamber. Added humidity source to the cyanoacrylate and fumes at least 10 minutes. |
| | Powder Dusting | Magnetic powder was applied in a light, twisting motion until print developed |
| RAAUKH | Visual Examination | Single faint impression was observed in section B; requires further processing to visualize any other development |
| | RUVIS | Single impression observed in section B; due to the slight texture of the item, continued with CA processing to enhance ridge detail |
| | Cyanoacrylate Fuming | Single impression developed in section B; due to the slight texture of the item and the white CA developed impression on the white background, continued with RUVIS examination |
| | RUVIS | Single impression observed in section B; due to the slight texture of the item, continued with dye stain processing |
| | Dye Stain | Rhodamine 6G applied on the item; requires further use of ALS to visualize any development |
| | Alternate Light Source | Single impression observed in section B was visualized with more detail |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| RN2PLN | Visual Examination | White Light |
| | Cyanoacrylate Fuming | White Light/RUVIS |
| | Dye Stain | RAM/Laser |
| RQAWQ2 | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | Humidity - 80%. Temperature of the heating plate - 100 Celsius degree. Time - 45 minutes |
| | Ardrox | |
| RYGJXG | [No Methods Reported.] | Visual examination Magnetic black powder |
| T8B6KU | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |
| | Dye Stain | |
| T8UQDK | Cyanoacrylate Fuming | Cyanoacrylate was heated for 15 minutes in fish tank and evidence item was placed for further 2 hours in fish tank. |
| | Dye Stain | Rhodamine 6G solution was used after cyanoacrylate fuming for enhancement. |
| T9RA8Y | Visual Examination | |
| | Powder Dusting | black magnetic powder |
| TBT8PE | Cyanoacrylate Fuming | vacuum fumed with cyanoacrylate ester in cyvac for 45 min. cured for 30 min. |
| | Dye Stain | Sprayed with Rhodamine fluorescent dye |
| | Alternate Light Source | Viewed with Laser |
| TEUDYH | Powder Dusting | Object #2 (item 2) was treated with Black Graphite Powder (#BPPO9128) already for one minute, developing later a fingerprint. |
| TFZYDH | Visual Examination | Polychromatic light source (White, UV, Blue, Blue-Green, Green) |
| | Cyanoacrylate Fuming | Fuming time: 10 minutes. Superglue: 1g Lumicyano Solution + 4% Lumicyano Powder |
| | Dye Stain | Rhodamine 6G |
| TGL83E | Cyanoacrylate Fuming | entered exhibit into superglue tank for 20 minutes at 78 percent humidity. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| TJPYX8 | Visual Examination | Direct and oblique white light |
| | Cyanoacrylate Fuming | Relative humidity:80% ; Temperature: 118-123 °C ; Cyano glue quantity : 0.82 g; Exposure time : 15 min |
| | Dye Stain | Basic Yellow 40 and Basic Red 28: Both dyes were absorbed by the substrate and the de-staining with water did not work. The dyes were not applied to the surface containing the fingerprint |
| | Powder Dusting | Black powder |
| TPQF8T | Visual Examination | Examined with white, blue and green light. Fingerprint visible with white light. |
| | Cyanoacrylate Fuming | Processing time 6.5 min, 2.0 gram cyanoacrylate. 80% humidity. Fingerprint visible. |
| | Dye Stain | Basic yellow 40. Fingerprint recovered. |
| TPVTUN | Visual Examination | We watch with Crime-Light 82S Uv nm365. Little of fingerprint was seen in square B.. |
| | Polycyano | We put Item2 in Foster-Freeman MVC3000 and used Polycyano glue. Processing time was 20 min and temperature 230. |
| TURD6Z | Visual Examination | used side lighting / oblique lighting |
| | Cyanoacrylate Fuming | Air science cyanoacrylate fuming chamber #1, 15 minutes at 73 degrees F and 80% humidity |
| | Dye Stain | Sprayed with Rhodamine 6G (methanol base) |
| | Alternate Light Source | Laser (Bright Beam) exam at 532nm / used orange goggles |
| U9YZHM | Alternate Light Source | Examination took place at the FSIS facility, conditions: UV Lens 78 mm F/3.8, aperture ISO 16, UV light |
| | Physical Developer (PD) | A magnetic dactyloscopic powder were applied: "CRP, magnetic silver/black" |
| UAWBEP | Cyanoacrylate Fuming | 10 min |
| | Dye Stain | Basic Yellow 40 |
| UAYXXN | Visual Examination | Visual examination with white light. |
| | Cyanoacrylate Fuming | Placed in fuming chamber with super glue for 3 minutes at 60% humidity. |
| | Dye Stain | Applied RAM dye stain and allowed to dry. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| ULPQ3Q | Visual Examination | No visible friction ridge detail noted |
| | Alternate Light Source | No visible friction ridge detail noted |
| | Cyanoacrylate Fuming | 20 minutes processing time (test strip used) to include extraction of fumes |
| | Visual Examination | Visible friction ridge detail noted |
| | Alternate Light Source | Visible friction ridge detail noted |
| | Dye Stain | Rhodamine 6G, 10 minutes processing time |
| | Visual Examination | Friction Ridge detail enhanced |
| | Alternate Light Source | Friction Ridge detail enhanced |
| | Powder Dusting | Black dusting powder used to further enhance friction ridge detail |
| | Visual Examination | Friction ridge detail further enhanced |
| UM2GG2 | Visual Examination | No latent print observed. |
| | Cyanoacrylate Fuming | Latent print observed i box B. |
| | Powder Dusting | Latent print observed i box B. |
| | Dye Stain | Basic Yellow 40. Same print as previous (box B). |
| UNC7V8 | Visual Examination | light white |
| | Cyanoacrylate Fuming | temp. 21 C, humidity 80%, time 15 min |
| | Dye Stain | light 350-505nm |
| UPU4FJ | Powder Dusting | Graphite powder was applied to detect the latent print, the same was worked to clean and then to be able to photograph. |
| UW8BP9 | Visual Examination | in natural light and light from forensic iluminator - a latent print was observed in section B |
| | Cyanoacrylate Fuming | time 15 min, RH - 80% - discovered fingerprint was improved |
| | Dye Stain | Basic Yellow 40 - to achive even better contrast - positive result (450 nm with the filter OG550) |
| V2FULF | Cyanoacrylate Fuming | Lot #: 042621-05. Humidity: 80%. Temperature: 120 degrees C. Control Print: Positive. Processing Time: Auto. Humidify 17:00 minutes, Auto Glue 13:minutes. Equipment Used: MVC 3000 |
| | Visual Examination | Ridge detail observed in section B. |
| | Powder Dusting | Bichromatic powder lot #: 111219 |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| V9EHYD | Visual Examination | Visual examination with white light source and with different light source examination: oblique light technique, spectroscopic technology, grazing light... One fingerprint detected in sector B |
| | Alternate Light Source | Examination with multi-spectrum forensic light: Poly-light ROFIN PL500R between the different light ranges from ultraviolet light to infrared light. One fingerprint detected in sector B (the same). |
| | Cyanoacrylate Fuming | Application of cyanoacrylate reagent with cyanoacrylate fuming cabinet. The values of the hood have been: 70%-80% humidity and plate temperature up to 140°C. |
| | Visual Examination | Visual examination with white light source and with different light source examination: oblique light technique, spectroscopic technology, grazing light... One fingerprint detected in sector B (the same) |
| | Dye Stain | Application ARDROX Dye with spray and after rinse with tap water. |
| | Visual Examination | Visual examination with UV light (350Nm). Visualization one latent fingerprint in section B (the same). One fingerprint detected in sector B (the same) |
| VF2FV2 | Visual Examination | ambient and fluorescent; no ridge detail observed |
| | Alternate Light Source | Crime scope, full range with and without orange filter; no ridge detail observed |
| | Cyanoacrylate Fuming | Mystaire fuming chamber, 80% humidity, 11 minutes; no ridge detail observed |
| | Powder Dusting | Magnetic powder, ridge detail observed |
| | Dye Stain | Rhodamine 6G, Crime scope, 515 nm, orange filter; no additional detail observed |
| VF34A7 | Visual Examination | Natural light, white light, optical instruments. |
| | Cyanoacrylate Fuming | Processing time: 10 min, humidity: 80% |
| | Visual Examination | White light /angle light, optical instruments. |
| | Wet Powder Suspension | Wet-powder white suspension. |
| | Visual Examination | White light /angle light, optical instruments. |
| VVU2AF | Visual Examination | under white light |
| | Alternate Light Source | fluorescence examination (350 nm - 650 nm under appropriate color barrier filters). Wavelengths ranging from 350 nm to 650 nm is a standard procedure applicable in our laboratory. |
| | Cyanoacrylate Fuming | in the fuming chamber with a humidity 80% for 10 minutes; visual examination under white light and fluorescence examination in alternate light source (350 nm - 650 nm under appropriate color barrier filters) |
| | Basic Yellow 40 | fluorescence examination in alternate light source (350 nm - 505 nm under yellow or orange color barrier filters) |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| WLNFE | Visual Examination | Natural light used for visual examination. Some ridge detail observed in the "B" quadrant. |
| | Alternate Light Source | CrimeScope ALS utilized. No fluorescent friction detail observed. |
| | Cyanoacrylate Fuming | Light switch plate was processed with CA for approximately 15mins with 12min purge time. Friction ridge detail was observed in the "B" quadrant. |
| | Dye Stain | Rhodamine 6G was applied. Friction ridge detail was observed in the "B" quadrant under 515nm light. |
| | Powder Dusting | Black magnetic powder utilized. No additional detail developed. |
| WMELC6 | Cyanoacrylate Fuming | Processed by cyanoacrylate ester (superglue) under a vacuum for over 1 hour, allowed to cure then dye stained with R6G |
| WPJC6D | Cyanoacrylate Fuming | Photografic fixation were made with and without metric rule; after this the item was introduced into the cyanoacrylate chamber for aproximately 30min. |
| | Powder Dusting | We applied black fingerprint powder. |
| WT9H3G | Visual Examination | |
| | FSIS UV Light | |
| | Cyanoacrylate Fuming | 3g CA 70% humidity |
| | FSIS UV Light | |
| WV9TQ4 | Visual Examination | |
| | Alternate Light Source | 365nm, CSS, 495 nm, 535nm, 555nm, 575nm, 532nm green laser |
| | Cyanoacrylate Fuming | 75-80 relative humidity, 15 minute fume time, white light |
| | Dye Stain | Ardrox, 365nm |
| X38TPW | Visual Examination | Crimelite, LASER |
| | Cyanoacrylate Fuming | 70 minutes in F+F MVC 5000 chamber |
| | Dye Stain | Rhodamine 6G |
| | Powder Dusting | Black powder |
| X4LZBD | Powder Dusting | used black fingerprint powder on a fiberglass fingerprint brush |
| X82ERT | Visual Examination | Visual examination, Item was placed in the Cyvac cyanoacrylate fuming chamber for 1 hr. Item was visually examined then dye stained with R6G, viewed w/laser. |
| | Cyanoacrylate Fuming | superglue in the Cyvac cyanoacrylate fuming chamber for 1 hr. |
| | Visual Examination | |
| | Dye Stain | R6G |
| | Visual Examination | viewed w/laser |
| X8KB7D | Powder Dusting | Latent print processing utilizing black powder |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| XA6C2Z | Visual Examination | Equipment: High intensity white light. No ridge detail observed. |
| | Ruvis | Equipment: Ruvis. Control Positive. Area of ridge detail 2.01 from the light cover was preserved. |
| | Cyanoacrylate Fuming | 11 minutes/ 80% humidity. Equipment: Cyanoacrylate fuming chamber. Control positive. Area 2.01 was not rephotographed. |
| | Ruvis | Equipment: Ruvis. Control Positive. Area 2.01 was rephotographed. |
| | Dye Stain | R6G. Equipment: TracER laser. Control positive. Area 2.01 was rephotographed. |
| XE VXJL | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | humidity: 80%, temperature of the heating plate - 100 degrees Celsius, time - 35 minutes |
| | Basic Yellow 40 | |
| XFRC7E | Visual Examination | Examination in daylight and with forensic light sources with appropriate filters (light sources – POLILIGHT PL 500, PAGLAB MSA-810, VSC 400 Foster Freeman) |
| | Cyanoacrylate Fuming | 20 min exposure, 120° C, 80% humidity, viewing in white light and in ~505-530 nm range with forensic light sources + appropriate filters |
| | Dye Stain | Spraying item with Basic Yellow 40 working solution, viewing in ~350-505 nm range with forensic light sources + appropriate filters |
| XG9AVX | Visual Examination | I performed a visual examination by looking at the item using natural lighting and oblique lighting at different angles to see if any ridge detail is present. |
| | Cyanoacrylate Fuming | I placed the item into the superglue chamber. I added superglue into an aluminum dish and placed that onto a hot plate inside the chamber. I also added a glass beaker with hot water into the chamber to provide humidity. I placed a control print onto the interior of the glass of the chamber to ensure the superglue was fuming properly. I turned the chamber on and let the hot water rehydrate any ridge detail that is present, and the superglue fumes adhered to any ridge detail. I left the item inside the chamber for approximately 15 minutes. Once I observed the control turn white from the superglue fumes, I turned the chamber off and vented the chamber. |
| | Powder Dusting | Using black powder and a fingerprint brush I powdered the item and ridge detail developed. |
| XMBJY6 | Cyanoacrylate Fuming | ~1hr |
| | Dye Stain | Ardox, viewed under 365nm |
| XWEMXM | Visual Examination | |
| | Forensic Light Sources | |
| | Cyanoacrylate Fuming | |
| | Dye Stain | |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|---|--|
| Y28ZKW | Cyanoacrylate Fuming Powder Dusting | Chamber #1 Auto Cycle Lot #202202520 Black powder Lot #201804187 |
| Y7MM39 | Visual Examination Cyanoacrylate Fuming Dye Stain Alternate Light Source | Rhodamine 6G LASER for visualization of dye stain (R6G) |
| YBC4BT | Visual Examination Lumicyano | 5% solution with 14minutes fuming time |
| YF7226 | Cyanoacrylate Fuming Powder Dusting | Processed 30 minutes in chamber. |
| YKDNJM | Visual Examination Cyanoacrylate Fuming Dye Stain | White, blue and green forensic lightsources. Fingerprint was observed in box B with white light. Fingerprint was observed in box B. Fingerprint was observed in box B after dye stain with BY40. |
| YLCQLX | Visual Examination Cyanoacrylate Fuming Powder Dusting | Item 2 was visually examined using direct and indirect light. No friction ridge detail was found. Item 2 was placed into the controlled Mystaire Cyanoacrylate fuming chamber for 20 minutes at 70% humidity level. Friction ridge detail of possible value was developed on item 2. The control for item 2 was positive for friction ridge detail. Item 2 was then processed with bichromatic powder. Friction ridge detail of possible value was developed on item 2. The control for item 2 was positive for friction ridge detail. |
| YNZ3B3 | Cyanoacrylate Fuming Powder Dusting | 12 min magnetic fingerprint powder |
| YQT3HE | Visual Examination | 2. Alternate Light source white 3. Powder Dusting Black A-2312 4Powder Magnetic Black A-2412 black 10 minutes processing time |
| YTCBC8 | Visual Examination | No processing needed image in white light |
| YUNYYT | Visual Examination Alternate Light Source Cyanoacrylate Fuming Dye Stain | Mark search was done by following ways: 1. White Light/Naked eye. No Mark Found 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) Processing Time: 45 mins, which includes Humidifying, Fuming and Purging. After 45 mins, Mark search was done using White Light. Mark Found on Section B. 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). Mark enhanced on Section B. |

TABLE 2 - Item 2

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| YWGMMF | Visual Examination | Crime - lite MLD; mark in sector B is visible, pattern is left loop. |
| | Cyanoacrylate Fuming | Mark in sector B is visible, pattern is left loop. The mark is better visible. |
| YY6YN7 | Powder Dusting | Black magnetic powder was applied. |
| Z28CLX | Visual Examination | with white light |
| | Cyanoacrylate Fuming | CA fuming for 30 min with purge 30 minutes then viewed under white light |
| | FSIS | with UV light |
| | Dye Stain | R6G with laser light |
| | Powder Dusting | black powder with white light |
| Z9RFT2 | Cyanoacrylate Fuming | Fumed at 80% relative humidity for 14 minutes. |
| | Dye Stain | Basic Yellow 40 |
| ZGB6XZ | Cyanoacrylate Fuming | |
| | Powder Dusting | |
| ZGVRKN | Visual Examination | |
| | Cyanoacrylate Fuming | fumed 8 minutes |
| | Dye Stain | R6G aqueous |
| | Alternate Light Source | Green laser (532nm) |
| | Powder Dusting | Black |
| ZJ29Q7 | Cyanoacrylate Fuming | A control test and item were processed simultaneously at the same conditions, for 20 minutes in a cyanoacrylate fuming chamber. |
| | Visual Examination | The items were visually examined. |
| ZKXJMA | LPPM R7 | |
| | Cyanoacrylate Fuming | Fumed for 45 min, 20 min curing |
| | Dye Stain | Dye stained with R6G and viewed under green laser light. Test print was positive. |
| ZLFFNA | Visual Examination | |
| | Powder Dusting | |
| ZXMAUT | Visual Examination | No visible detail |
| | Cyanoacrylate Fuming | MVC5000 ridge detail present |
| | Dye Stain | R6G TracER Laser ridge detail present |

TABLE 2 - Item 2

WebCode Development Methods Method Details

Item 2 - Development Response Summary Participants: 245

Methods Utilized

| | | | |
|------------------------|-----|-----------------------|-----|
| Alternate Light Source | 89 | Physical Developer | 1 |
| Cyanoacrylate Fuming | 172 | Powder Dusting | 114 |
| DFO | 0 | Visual Examination | 188 |
| Dye Stain | 105 | Wet Powder Suspension | 3 |
| Ninhydrin | 0 | 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 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| 27AWUM | Visual Examination | Visually looked at the item for any prints |
| | Alternate Light Source | Used 520nm Laser, 445nm Blue light, and 365nm UV |
| | Cyanoacrylate Fuming | Performed a visual examination and then used the RUVIS (254nm) |
| | Powder Dusting | Magnetic powder was applied and item was visually looked at for any prints |
| | 1,2-Indanedione | Used Indanedione and placed the item in the oven for 20 minutes, afterwards used the 520nm Laser |
| | Ninhydrin | Used Ninhydrin and then placed the item in the humidity cabinet for 15 minutes and then performed a visual examination |
| | Dye Stain | Used RMO on the item and used the 520nm Laser and 445nm blue light to visualize |
| | Physical Developer (PD) | Used physical developer on the item and then performed a visual examination |
| 2F243T | Visual Examination | 11/1- ambient lighting |
| | Lumicyano fuming | 11/1- fluorescent CA fuming using F&F 3000 fuming chamber with auto settings; no glue observed. |
| | Alternate Light Source | 11/1- Laser green wavelength; no ridge detail observed. |
| | Vacuum Metal Deposition | 11/14- VMD 360 West Technologies Gold followed by zinc; no ridge detail observed |
| 2J6WZX | Visual Examination | No friction ridge impressions were observed upon visual examination with and without oblique lighting. Item also examined under Krimpe Scope using UV lighting with negative results. |
| | Powder Dusting | Magnetic powder applied with negative results. |
| | Cyanoacrylate Fuming | Item placed in cyanoacrylate fuming chamber for 21 minutes and again examined with negative results. |
| | Dye Stain | Ardrox applied to glossy surface. |
| | Alternate Light Source | Item examined under UV lighting with negative results. |
| 2JZKC2 | Cyanoacrylate Fuming | Visual examination (000-800NM); photography; basic yellow; humidity 80,6%; temperature 130°C |
| | DFO | Visual examination (000-590nm); photography; 100 °c |
| 2KE2F8 | Visual Examination | 11/04/2022 - No friction ridge detail was observed. |
| | Cyanoacrylate Fuming | 11/04/2022 - Fumed in a CA-6000 chamber for 7 minutes. No friction ridge detail was observed. |
| | Powder Dusting | 11/07/2022 - Grey magnetic powder was applied to item 3. No friction ridge detail was observed. |
| | Dye Stain | 11/07/2022 - Rhodamine 6G was applied to item 3. |
| | Alternate Light Source | 11/07/2022 - Item 3 was examined using an ALS set to 495nm and an orange barrier filter. No friction ridge detail was observed. No additional processing was performed. |
| 2M69WX | Iodine Crystal ampoule | Iodine crystal ampoule was used on the photograph. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|---|---|
| 2PRQTP | Visual Examination FSIS | FSIS |
| 2U2Z6R | Visual Examination Powder Dusting | Magnetic powder followed by black powder |
| 2VVNMM | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting 1,2-Indanedione | |
| 2YAG6F | Powder Dusting Ninhydrin | Magnetic powdered the glossy photograph; no latent prints were observed Utilized Ninhydrin on the glossy photograph ; no latent prints were observed |
| 34YEBH | Visual Examination Cyanoacrylate Fuming Powder Dusting Dye Stain | Visual inspection - Natural light and laser. Fumed for three minutes, with hot water, 70 percent humidity. 1. Powdered with Foster Freeman "FP natural 2" powder and viewed with infrared light at 445nm-780nm. 2. Powdered with white powder. Applied RAM dye stain and viewed with ALS at 475nm and with laser at 445nm. |
| 39C6NP | Visual Examination Cyanoacrylate Fuming Powder Dusting Dye Stain | Item 3 was visually examined with white light and magnification on 11/15/22. No ridge detail was observed. Item 3 was processed in the Misonix CA-3000 superglue fuming chamber on 11/15/22 with Lumicyano. Post processing visual exam with white light and magnification on 11/15/22. No ridge detail was observed. Post processing visual exam with the Foster+Freeman CrimeLite 82s blue/green (450-510nm) and orange glasses on 11/15/22. No ridge detail was observed. Black magnetic powder was applied to item 3 on 11/15/22. No ridge detail was observed. Item 3 was treated with Rhodamine 6G aqueous base on 11/15/22. Post treatment visual exam with the Foster+Freeman CrimeLite 82s blue/green (450-510nm) and orange glasses on 11/15/22. No ridge detail was observed. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| 3DRRAG | Visual Examination | Did visual examination with white light. |
| | Cyanoacrylate Fuming | CAE in fuming chamber. Placed in chamber for 3 minutes |
| | Visual Examination | Did visual examination after CAE with white light. |
| | Powder Dusting | Dusted item with black magnetic powder. |
| | Visual Examination | Did visual examination after applying black magnetic powder with white light. |
| | Dye Stain | Applied RAM Dye Stain to item, allowed to dry. |
| | Alternate Light Source | Viewed item with Fluorescent dye under ALS. |
| | Powder Dusting | Dusted item with white and black powder. |
| | Visual Examination | Did visual examination after each application of both white and black powder with white light. |
| 4KA74E | Visual Examination | First I did an visual examination of the piece of evidence to identify the possible fingerprint. |
| | Alternate Light Source | I used an alternate light source to have a better visibility of the piece of evidence and the possible fingerprint. |
| | Powder Dusting | I proceeded to use powder dusting in the evidence to identify the possible fingerprint. The fingerprint was located in the letter C. |
| 4L3C47 | Visual Examination | oblique lighting used |
| | Alternate Light Source | 420-470 nm |
| | Cyanoacrylate Fuming | control: positive |
| | Powder Dusting | black powder |
| | Powder Dusting | fluorescent powder |
| | DFO | control: positive |
| | Dye Stain | basic yellow control: positive |
| 4PKCMR | Visual Examination | Oblique light. |
| | Alternate Light Source | At 455-515 nm wavelengths. |
| | Cyanoacrylate Fuming | for 20 minutes. |
| | Powder Dusting | Black powder. |
| | Dye Stain | Rhodamine, subsequently looked at with ALS at 455-515 nm wavelengths. |
| | DFO | Subsequently looked at with ALS 455-515 nm wavelengths. |
| | Ninhydrin | |
| 4PYL9 | Cyanoacrylate Fuming | Visual examination under white light, in the evaporating humidity 70% and temperature 20C for 3 hours |
| | amido black | Amido black under white light |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|--|
| 4VKUMC | Cyanoacrylate Fuming | A control test of cyanoacrylate fuming compound was performed prior to process the sample with positive results. The item was processed for 20 minutes in a cyanoacrylate fuming chamber and then visualized using a 254nm UV lamp and filter. |
| | Visual Examination | The items were visually examined. |
| 4WY6RW | Alternate Light Source | |
| | Cyanoacrylate Fuming | CA Chamber |
| | 1,2-Indanedione | 1,2-Indanedione Zinc Chloride (steam iron) |
| 4ZK34T | Powder Dusting | Used black magnetic powder |
| 4ZZ9L4 | Visual Examination | Item was photographed and documented as received. Item was examined using oblique lighting with negative results. Item was examined using the KrimeSite with negative results. |
| | Powder Dusting | Item was processed with Mag powder with negative results. |
| | Cyanoacrylate Fuming | Item was fumed in the Cyanosafe and dye stained with basic yellow. Item examined under ALS with negative results. |
| 6FPZHP | Visual Examination | 11/15/2022-visually examined a photographed divided into four sections |
| | Lumicyano | 11/15/2022-placed the photograph and glass slide with known print (QC) into MVC 3000 chamber, mixed with fluorophore (5.5 heaping scoops) with liquid super glue (90 drops) into a foil pan and placed on heating port, added molecular grade water into water port to start the auto cycle (humidity cycle-15 mins, glue cycle 25 mins, purge cycle 20 mins) once the fuming processed ended, I visually examined the glass slide and photograph under a green laser and observed that the glue did not adhere/deposit unto any section of the photograph. Will move forward with further processing. |
| | Vacuum Metal Deposition | 12/6/2022-the photograph was placed in the Vacuum Metal Deposition (VMD) chamber along with a QC (known print on paper). The metals used were silver followed by zinc followed by gold followed by zinc. Under the vacuum state, silver is deposited onto the evidence then zinc is deposited onto the silver then gold follows to provide better contrast. QC was positive, however ridge detail did not develop onto evidence. |
| 6GJNZK | Visual Examination | white light |
| | Alternate Light Source | polylight. 440 - 520nm. orange filter |
| | Cyanoacrylate Fuming | 80RH%. 10 min process |
| | Visual Examination | RUVIS |
| | Dye Stain | BY40 |
| | Dye Stain | CV |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|------------------------|------------------------|--|
| 6GPULN | Visual Examination | with TracER Laser & white CrimeLite |
| | Cyanoacrylate Fuming | Foster + Freeman MVC5000 auto process (~70 minutes) |
| | Powder Dusting | white magnetic powder |
| | DFO | 20 minutes in 100C oven -- viewed with Polilight500 505nm & orange goggles |
| | Ninhydrin | 3 minutes in 80C oven with 65 relative humidity -- redipped & reran a second time -- viewed with incandescent light |
| 6UAFKN | Visual Examination | Examined the item in natural light |
| | Alternate Light Source | Examined the item under different lights (Alternative Light Sources including white light and observed for any inherent fluorescence) |
| | Cyanoacrylate Fuming | MVC 3000 Chamber- Chamber #1 (test print positive). Cyanoacrylate Lot # 202202520. Glue Time 11 minutes. RH 80%. Hot Plate Temperature 120 degrees C (248 F) |
| | Visual Examination | Examined the item in natural light |
| | Alternate Light Source | Examined the item under different lights (Alternative Light Sources including white light and observed for any inherent fluorescence) |
| | Dye Stain | Cyanoacrylate Dye Stain: MBD(7-(P-Methoxybenzlamino-4Notrobenz-2-Oxa-1,3-Diazile) (test print positive). Lot # 072722-01 |
| | Alternate Light Source | Examined the item under different lights (Alternative Light Sources including white light and observed for any inherent fluorescence) |
| | Powder Dusting | Use of Magnetic Powder Lot # 201504053-04 (test print positive) |
| 6WRNJN | Visual Examination | Visualized item in regular light, no detail seen |
| | Alternate Light Source | Used Coherent tracer laser, no detail seen. |
| | Cyanoacrylate Fuming | Utilized a CA fuming chamber by placing the evidence in the ventilated fuming chamber and placed the appropriate amount of liquid CA in an aluminum dish (about a dime size). Also placed a control print inside. After processing, a latent print was located in section A. |
| | Dye Stain | Rhodamine 6G was then applied to the surface of the item and test print. The item was again viewed under the Coherent Tracer Laser, and the detail was not visualized in section A and was visualized on the control print. |
| | 1,2-Indanedione | Applied IND to the surface of the item. I let the item dry, then placed it in between two pieces of paper towel. I then utilized the steam setting on an iron and applied it on top of the paper towels with the item inside. |
| | Alternate Light Source | I attempted to visualize detail with the Coherent Tracer Laser with negative results. |
| | 6YF49X | Visual Examination |
| Alternate Light Source | | range of light sources used: UV, BLUE and GREEN |
| Cyanoacrylate Fuming | | 120 C and 80% humidity, 15 minute glue cycle |
| Wet Powder Suspension | | white powder suspension |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------------|--|
| 7648GR | Powder Dusting | Magnetic powder was applied. |
| 77GJR4 | Visual Examination | *Please note that gloves were worn at all times throughout this processing. Item 3 was first removed from its packaging and visually examined. No possible ridge detail was observed at this time. |
| | Cyanoacrylate Fuming | *Please note that gloves were worn at all times throughout this processing. Because item 3 was observed to be glossy and non-porous during visual examination, cyanoacrylate fuming was selected to use. A Cyanoacrylate fuming chamber was cleaned prior to use with isopropyl alcohol. A clean sheet of butcher paper was placed at the bottom of the chamber. A control was created utilizing black, non-porous cardstock and was hung from a clip inside the chamber. Several drops of liquid superglue (Lot#XT28419, Exp: 05/2023) were placed into a small metallic container, which was placed on top of a small heating plate inside the chamber. Sufficient water levels were observed in the machine. Item 3 was then placed into the chamber. The chamber was then closed and a fuming cycle was started. The control and Item 3 were fumed for ten minutes at a 70% humidity level. Once complete, the chamber then purged the fumes for an additional ten minutes. Positive results were observed on the control. Item 3 was visually examined and ridge detail was clearly observed in the "A" quadrant. |
| | Powder Dusting | *Please note that gloves were worn at all times throughout this processing. In order to attempt lifting the observed ridge detail, bichromatic powder was selected to apply to Item 3. The item was placed on a clean sheet of butcher paper and bichromatic powder was applied using a fingerprint brush. Ridge detail became clearly visible in the "A" quadrant. |
| 7ALAWX | Visual Examination | Examined glossy paper using oblique lighting. |
| | Cyanoacrylate Fuming | Item placed in superglue fuming chamber for approximately 20 minutes. Item checked after 10 minutes of processing, then every few minutes after until control standard (polymerization standard) was fully developed. |
| | Powder Dusting | Item dusted with black powder to reveal any possible ridge detail. |
| 7BRJ2N | Cyanoacrylate Fuming | the fuming took 20 minutes. |
| 7C6BRK | Visual Examination | I observed the Glossy Photograph (Item 3) under ambient light. No latent ridge detail was observed. |
| | Full Spectrum Imaging System | I viewed the glossy photograph (item 3) using the Full Spectrum Imaging System (FSIS) at 254 nanometers. No latent ridge detail was observed |
| | Cyanoacrylate Fuming | The glossy photograph (item 3) was placed into a fuming chamber and fumed with heated cyanoacrylate (Superglue). No latent ridge detail was observed. |
| | Full Spectrum Imaging system | I viewed the glossy photograph (item 3) using the Full Spectrum Imaging System (FSIS) at 365 nanometers. No latent ridge detail was observed |
| | Powder Dusting | I dusted the glossy photograph (item 3) with black powder. No latent ridge detail was observed |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|---|---|
| 7KTBYG | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting 1,2-Indanedione Dye Stain Physical Developer (PD) | Magnetic powder RMO |
| 7NFU6L | Cyanoacrylate Fuming Ninhydrin | |
| 7UPY88 | Powder Dusting | Object #3 (Item 3) was treated with Black Magnetic Powder (#A-2412-W), already, also for one minute; it did not developed a fingerprint fragments. |
| 7W882Z | Cyanoacrylate Fuming Dye Stain | Cyvac with cyanoacrylate (3027) for 1 hour with 20 minute purge. Viewed with UV light Dye stained with R6GW (SV2022-R6GW-14) and viewed with forensic laser. Test print positive. |
| 7ZWFMM | Visual Examination Cyanoacrylate Fuming Powder Dusting Alternate Light Source Powder Dusting Powder Dusting Dye Stain Alternate Light Source Cyanoacrylate Fuming | Magnification and oblique lighting used. Fuming chamber used - 72% relative humidity with run time of 13 minutes and purge time of 7 minutes. Fluorescent powder applied. Item viewed using blue laser (445) with orange filter. Gray powder applied. Bi chromatic powder applied. RAY applied using a RAY soaked kim wipe and blotting the item. Control done first in same manner to show blotting would be acceptable. NOTE: RAY would not be normally applied to this kind of matrix but since no friction ridge detail was seen during the earlier processing, it was decided to be attempted. Viewed using blue (445) and green (532) laser with orange filter. Since no obvious friction ridge detail had developed, it was decided to fume the item again for a longer time. Fuming chamber used - 72% relative humidity with a run time of 48 minutes and a purge time of 7 minutes. |
| 82D9W3 | Cyanoacrylate Fuming | photografic fixations were made with a metric rule it is introduced into the cyanoacrilate chamber for a proximately 40 minutes |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|---|--|
| 8CH9DG | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting 1,2-Indanedione Dye Stain Physical Developer (PD) | |
| 8ETYVX | Cyanoacrylate Fuming | Viewed item 3 using oblique lighting with overhead light and a flashlight—no prints seen prior to processing—surface of photograph was glossy so opted to process using cyanoacrylate fuming-fumed in fuming chamber for seven minutes at 80% humidity and included a control (positive results on control)-applied both magnetic fingerprint powder and then black fingerprint powder-no prints seen after processing-used fingerprint tape to make lifts-no prints recovered |
| 8JEBD8 | Visual Examination Lumicyano | White light, RUVIS 17 minutes at 75% humidity, hot plate at 250 degrees Fahrenheit. White light, RUVIS, LASER |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| 8TMFTH | 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 developed. |
| | 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. Ridge detail was seen in section 'A'. This was exhibited and photographed. |
| | Cyanoacrylate Fuming | Item 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 there were no further enhancements of previously developed marks. |
| | Powder Dusting | Item 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 there were no further enhancements of previously developed marks. |
| | 1,2-Indanedione | Item was treated with 1,2-Indanedione and item was placed in the Thermo Fisher oven for 12 minutes (10 minutes plus 2 minutes as the current recovery time). 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. No further marks were developed and there were no further enhancements of previously developed marks. |
| | Ninhydrin | Item 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 there were no further enhancements of previously developed marks. |
| | Physical Developer (PD) | Item 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 there were no further enhancements of previously developed marks. |
| 8WMV8L | Visual Examination | Visually examined the evidence, using natural light source |
| | Cyanoacrylate Fuming | Used cyanoacrylate fuming tanking, getting the tank up to 80% relative humidity, fuming for 30 minutes with cyanoacrylate and purging the tank for 30 minutes (CA220720) |
| | Powder Dusting | Dusted the latent print with latent fingerprint powder |
| | Dye Stain | used dye stain M-star on the latent print after cyanoacrylate fuming (MS221029), then used a crime scope to visually see the fluorescent latent print |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| 8ZM72Z | Cyanoacrylate Fuming | Cyano at 70% humidity for 15 mins |
| | Powder Dusting | Black powder |
| | Alternate Light Source | 455nm with yellow filter 505nm with red and orange filters *Done before and after Fluorescent powder* |
| | Powder Dusting | Fluorescent powder (Redwop) |
| 8ZQN46 | Visual Examination | Visual examination done with and without oblique lighting. No impressions observed. |
| | Powder Dusting | Powder processing using magnetic powder. No impressions observed. |
| 9JDLWG | Alternate Light Source | FSIS |
| | Cyanoacrylate Fuming | 20 minutes |
| | Dye Stain | BY40 |
| | Alternate Light Source | FSIS |
| 9KRXQF | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | |
| | 1,2-Indanedione | |
| | Dye Stain | |
| | Physical Developer (PD) | |
| 9MCZHK | Cyanoacrylate Fuming | cyanoacrylate processing time was 1 hour , then the item were brushed with black magnetic powder. |
| 9ZLMMC | Visual Examination | 5 minutes - Visual Exam with natural lighting |
| | Cyanoacrylate Fuming | 20 minutes - Fuming Chamber |
| | Alternate Light Source | 10 minutes - White Light using DCS - 5 |
| | Dye Stain | 10 minutes - Application of R.A.M. using squirt method (including dry time) |
| | Visual Examination | 3 minutes - Bright Beam Laser |
| | Powder Dusting | 5 minutes - White Powder glossy colored front, Black Powder on white semi-textured backing. |
| | Visual Examination | 3 minutes - Visual Examination with natural light for results. |
| ABWJ3Y | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | 120°C +/- 5°, relative humidity 75% +/- 15% |
| | Powder Dusting | white powder |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| AHL3EF | Visual Examination | white light, different angles |
| | Alternate Light Source | blue light 420-470 nm, filter 495nm green light 490-560 nm, filter 570nm |
| | Cyanoacrylate Fuming | 119 degrees celsius 80% RH 5 minutes |
| | Powder Dusting | Instant white and magnetic powder |
| | Dye Stain | Natural Yellow 3 |
| AQBTX2 | Visual Examination | The item was visually examined using a white light and ambient light in room. Fingerprint no visible. |
| | Cyanoacrylate Fuming | The item was placed in the fish tank to be worked with cyanoacrylate for approximately 20 minutes. |
| | Powder Dusting | The item was processed with gray/ black powder technique. |
| | Alternate Light Source | The item was visually examined using UV lighting under magnification revealing fingerprint in section D. |
| AV99QH | Visual Examination | CrimeLite & LASER |
| | Cyanoacrylate Fuming | 70 min. cycle in Foster and Freeman MVC 5000 chamber |
| | Powder Dusting | Bichromatic magnetic powder |
| | DFO | 20 min. dry oven. LASER |
| | Ninhydrin | 3 min. heated humidity chamber |
| B2M8MG | Visual Examination | Fingerprint residue was observed in section A , but the ridge details was not clear. |
| | Cyanoacrylate Fuming | Humidity: 80%. Time: 15 minutes. No improvement |
| | Alternate Light Source | UV Reflection as a non-destructive technique: Using DCS5 camera with Quartz lens (60mm 1:4 UV-VIS-IR Apo Marko), Baader U Filter2"(CWL 350 nm) and 330-385 nm band pass filter No improvement |
| | Powder Dusting | White powder improvement |
| | Gel lifter | No improvement |
| | Powder Dusting | No improvement |
| | Silicon lifiting | No improvement |
| B3LHDH | Powder Dusting | Magnetic powder followed by black powder. |
| B4F7VD | Visual Examination | High intensity white light. |
| | Cyanoacrylate Fuming | Cyanoacrylate fuming chamber (12 minutes, 80% relative humidity). |
| | Alternate Light Source | Reflected Ultraviolet Imaging System (RUVIS). |
| | Dye Stain | Rhodamine 6G. Chemical lot: 22-1117AC. |
| | Alternate Light Source | TracER Laser. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| BEAG82 | Visual Examination | I completed the initial visual examination to determine best processing methods for the item. I considered this item to have non-porous glossy side. I also photographed the item prior to any processing. I did not see any ridge detail while using white light at an oblique angle. |
| | Alternate Light Source | I used the Alternate Light Source to determine if any fluorescing can be seen on the object, prior to processing. I did not see anything fluoresce at this time. |
| | Cyanoacrylate Fuming | I use a chemical called Lumicyano in our fuming chamber. It is a combination of Cyanoacrylate Esters and Rhodamine 6G (a dye stain). This combines two separate processing steps into one, to minimize processing time. Like Cyanoacrylate esters, Lumicyano does requires the standard 80% humidity and the Lumicyano crystal/solution to be warmed. The item was fumed for 10 minutes in our mid-size chamber. |
| | Alternate Light Source | The Rhodamine 6G is a dye stain that fluoresces. After fuming with the Lumicyano, I examined the item with an ALS to see if the dye stain has adhered to any ridge detail. I saw what I thought to be very small partial ridge detail fluoresce, and photographed it. |
| | Powder Dusting | I did not see a sufficient amount of fluorescing ridge detail with the ALS, so I moved to powders. I used standard black magnetic powder and applied with a magnetic brush. I saw some sparse ridge detail and attempted to lift it with lifting tape. |
| BFAKUP | Visual Examination | white light and alternative light |
| | Cyanoacrylate Fuming | fuming Chamber |
| | Dye Stain | Basic yellow 40 |
| BJ8ZAY | Cyanoacrylate Fuming | 120 degrees Celsius 80% relative humidity 10 minute humidity time 12 minute glue time LOT# 042621-05 Positive test print with latent print standard pad, LOT# LPSP200 |
| | Alternate Light Source | DCS5 Cyanoacrylate filter settings |
| | Powder Dusting | Magnetic powder LOT# 112719-01 |
| | Visual Examination | Oblique lighting with flashlight No latent prints observed |
| BLX76H | Visual Examination | crimelight, UV light, and 530nm |
| | Cyanoacrylate Fuming | 70 minutes in superglue chamber |
| | Powder Dusting | red magnetic bi-chromatic |
| | DFO | 20 min in fingerprint development chamber |
| | Ninhydrin | 1 week sitting out (humidity chamber out of service) |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|------------------------|---|--|
| BX2UFY | Visual Examination | Visual examination using white Crime Lite, Blue Crime Lite, UV Crime Lite and Green Lazer all negative for ridge detail |
| | Cyanoacrylate Fuming | Cna fuming undertaken - CNA cabinet 2 (CNA/26). No ridge detail visualised using white light examination |
| | 1,2-Indanedione | Indandione treatment carried out as item partially semi porous. Examined on 30/11/22. Low quality mark visualised and photographed at section 'A'. |
| | Ninhydrin | Further treatment of mark carried out using Ninhydrin, Oven 1 (NINWS/376). Some reaction but no improvement of mark already visualised. |
| C2K2LD | Cyanoacrylate Fuming | Evidencia N°3: el tiempo de procesamiento en la cámara de ahumado de cianoacrilato fue de dos (2) horas, se utilizo polvos fluorescente de color naranja como complemento. [English translation of comments was not obtained by the time of report publication.] |
| C3FLLJ | Visual Examination | No indented writing, trace, or prints observed. |
| | Alternate Light Source | No prints observed. |
| | Cyanoacrylate Fuming | 20 minutes in the Cyanosafe, no prints observed. |
| | Powder Dusting | Black powder, no prints observed. |
| | Dye Stain | Rhodamine was used, no prints observed. |
| | Alternate Light Source | Viewed Rhodamine under ALS, no prints observed. |
| | DFO | Dipped in D.F.O. working solution twice until fully saturated and air dried. Placed in 100 degree Celsius dry oven for 20 minutes. Waited 24+ hours for further development. |
| | Alternate Light Source | Viewed D.F.O. under ALS, no prints observed. |
| | Ninhydrin | Dipped in Ninhydrin solution twice until fully saturated and air dried. Waited 72+ hours for further development, no prints observed. |
| | Dye Stain | Used Rhodamine a second time. |
| Alternate Light Source | Viewed Rhodamine under ALS, no prints observed. | |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| C3HBQG | Visual Examination | Used oblique lighting from a Crimelite flashlight (white light), then used a Coherent TracER LASER with a KV550 lens filter to image any potential latent print. Also, incandescent lighting was used to avoid any hotspots when imaging potential latent prints. These methods were applied to the front and back of the glossy photograph. |
| | Cyanoacrylate Fuming | The item was placed inside a Foster & Freeman MVC-5000 superglue chamber, used 3 grams of cyanobloom (superglue) in heating element, and set an autocycle program for 70 minutes. Using a Crimelite flashlight (white light), oblique lighting was applied to the front and back of the glossy photograph. |
| | Powder Dusting | For contrast purposes, white powder was applied on the front of the glossy photograph and black powder was applied on the back of the photograph. Oblique lighting from a Crimelite flashlight and incandescent lighting was used to image any potential latent prints. |
| | DFO | On the front and back of the photograph, a 3 second soaking of 1,8-Diazafluoren-9-one (DFO) was applied. After the item dried, the soaking step was repeated and placed into the Sanyo Gallankamp oven and set at 100 degrees Celsius for 20 minutes. A Coherent TracER LASER and a KV550 lens filter was used to image any potential latent prints. The item was re-examined with the LASER after a 24 hour sit-time to allow complete development of DFO. |
| | Ninhydrin | On the front and back of the photograph, a 3 second soaking of Ninhydrin was applied. After the item dried, the soaking step was repeated and placed into an oven for 6 minutes set at 80 degrees Celsius and having 65 percent relative humidity. Incandescent lighting, Oblique lighting from a Crimelite flashlight, and fluorescent lighting was used to image any potential latent prints. The item was re-examined after 24 hours of sit-time to allow complete development of Ninhydrin. |
| C7YNMX | Visual Examination | A visual inspection was performed, no fingerprint was identified. |
| | Alternate Light Source | A visual inspection was performed using alternating white and violet light, no fingerprint was identified. |
| | Powder Dusting | Black magnetic powder was used for fingerprint development, negative result for fingerprint. |
| C8VXHZ | Powder Dusting | Evidence object 3 was treated for one minute by Black Magnetic Powder, Ref.No. A-2412W, but I dont develop fingerprint fragments. |
| C949CH | Visual Examination | |
| | Alternate Light Source | FSIS |
| | Cyanoacrylate Fuming | Fumed in Air Science Chamber for 30 minutes with 30 min purge at 80% humidity |
| | Powder Dusting | Bichromatic powder applied with a fingerprint brush |
| | Dye Stain | Mstar dye stain applied with squirt bottle. Not rinsed |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|-------------------------|-------------------------|--|
| CDY6VH | Visual Examination | visually observed |
| | Lumicyano fuming | 8% solution of lumicyano solution and lumicyano powder used. Humidity cycle 80% RH 15 mins, Glue cycle-80% RH 120 degreed C 25 mins, Purge cycle-< 80% RH 20 mins |
| | Alternate Light Source | Bright beam laser green light 525nm wavelength |
| | Vacuum Metal Deposition | Multi-metal setting using gold followed by Zinc. No ridge detail developed. Control developed as expected. |
| CHR4CY | Visual Examination | First I did a visual examination of the piece of evidence to locate the possible fingerprint. |
| | Alternate Light Source | Then I used an alternate light source to have a better visibility of the possible fingerprint. |
| | Powder Dusting | To develop the possible fingerprint I used powder dusting. The fingerprint was weak but it was located in the letter C of the piece of evidence. |
| CL7XXX | Powder Dusting | Red Charge / UV light |
| CQZTY6 | Visual Examination | Natural light, white light. |
| | Cyanoacrylate Fuming | The latent print was developed 25 minutes (80 % - humidity) on a glossy photograph. The latent print was recovered in section "A". |
| | Powder Dusting | Later black magnetic powder was used to enhance contrast of the latent print. The latent print was recovered in section "A". |
| CRVFC9 | Visual Examination | Forensic light (white, green, blue) |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | Black powder |
| | 1,2-Indanedione | 100 celcius degrees at 10 minutes |
| | Ninhydrin | 80 celcius degrees 62 % RH at 2 minutes |
| | Dye Stain | Basic yellow 40 |
| | Dye Stain | Basic red 14 |
| Physical Developer (PD) | | |
| CUY4V6 | Visual Examination | White light. |
| | Cyanoacrylate Fuming | Cyanoacrylate fuming chamber "Air science safe fume 48S". Cyanoacrylate B-83000, BVDA. Humidity 80%, target temperature 85 degrees, processing time 25 min. Room temperature 21,3 degrees. |
| | Powder Dusting | Fingerprint powder magnetic black, B-47000, BVDA. |
| CV2M7M | Visual Examination | Ambient lighting and flashlight/oblique lighting |
| | Cyanoacrylate Fuming | 71.5 degrees F / 68% relative humidity / run time approx 5 minutes. Exam post-CAE with ambient lighting and flashlight/oblique lighting |
| | Powder Dusting | Black magnetic powder |
| | Alternate Light Source | Blue/green laser exam with orange goggles |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| CVG46L | FSIS | Viewed with FSIS under UV light |
| | Cyanoacrylate Fuming | Fumed with superglue for about 1 hour (allowed to cure), viewed with laser at 532 nm and orange filter |
| | Vacuum metal deposition | processed w/VMD and gold and zinc metals |
| CY3TMD | Visual Examination | Relative temperature of the processing room was 72.2 degrees Fahrenheit. No friction ridge detail was observed. |
| | Cyanoacrylate Fuming | I superglue fumed (CA) this item in a Foster and Freeman MVC 3000 fuming chamber. Conducted a visual examination and no friction ridge detail was observed. |
| | Dye Stain | I applied Basic Yellow dye stain to this item via the spray method and let it dry under the vent hood for 30 minutes to an hour. |
| | Alternate Light Source | I conducted a visual examination with a Rofin polilight PL500 using varying wavelengths of: UV, 415nm, 450nm, and 590nm. Orange and Red goggles were used. No friction ridge detail was observed. |
| | Black magnetic Powder | I then used Black Magnetic Powder with a magnetic wand to see if I could develop any friction ridge detail. No friction ridge detail was found or developed. |
| D62PRV | Powder Dusting | black powder, mag powder, |
| | Cyanoacrylate Fuming | rhodamine 66 dye stain |
| | Alternate Light Source | half hour |
| D9FE6D | Visual Examination | White light |
| | Alternate Light Source | Polilight, Foster+Freeman Crime-lite ML2 - all available wavelengths |
| | Cyanoacrylate Fuming | Processing time 15 min 120°C |
| | Powder Dusting | Magnetic Blitz Green |
| | DFO | 100°C Processing time 10 min, 0% RH |
| | Ninhydrin | 80°C Processing time 5 min, 65% RH |
| DRCRUE | Cyanoacrylate Fuming | 40 min, white stain. |
| | Powder Dusting | Black Magnetic powder on the white side and white Magnetic powder on the black side. |
| E4MP4Z | Visual Examination | No Prints were observed. |
| | Cyanoacrylate Fuming | Left the item in a humid environment for 7 minutes. Fumed item for 7 minutes. Vented the environment. |
| | Powder Dusting | Dusted with magnetic powder. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| EAC3AU | Visual Examination | No friction ridge detail observed. |
| | Cyanoacrylate Fuming | Fumed the item for 6 minutes with 80% relative humidity. No friction ridge detail was observed. |
| | Powder Dusting | Used black/grey magnetic powder (black on the lighter areas, grey on the darker areas). Friction ridge detail was observed in quadrant "A" but was not suitable for recovery (contrast could not be obtained). However, I could visualize it enough to be confident it was a whorl-type pattern. |
| | Dye Stain | Sprayed the item with Rhodamine 6G dye stain (Petroleum Ether base) and allowed it dry. |
| | Alternate Light Source | Visualized the item under 495nm of light. No friction ridge detail was observed. |
| EAWQMH | Visual Examination | Visual examination with non-destructive light examinations (UV, side lighting) |
| | Cyanoacrylate Fuming | semi-porous item followed by visual examination |
| | Dye Stain | Rhodamine 6G stain followed by visual examination |
| | Alternate Light Source | No observable print viewed |
| | Powder Dusting | Orange Fluorescent powder - No observable print viewed |
| ECUDR7 | Visual Examination | Visually examined evidence using oblique lighting |
| | Alternate Light Source | Examined evidence using 520nm laser, 445nm laser, and 365nm UV |
| | Cyanoacrylate Fuming | CA fumed evidence then examined both visually and with 254nm RUVIS |
| | Powder Dusting | Applied Black Magnetic Powder to lighter areas of evidence and Gray Magnetic Powder to darker areas of photograph then examined visually |
| | 1,2-Indanedione | Applied IND to evidence let dry in fume hood before placing in oven for 20 minutes, followed by a visual and 520nm laser examination. |
| | Ninhydrin | Applied NIN to evidence and let dry in fume hood before placing in humidity chamber for 15 minutes, followed by a visual examination of evidence. |
| | Dye Stain | Applied RMO to evidence then examined utilized 520nm laser and 445nm laser |
| | Physical Developer (PD) | Placed evidence in Tray 1 (maleic acid solution) for 10-15min, Tray 2 (PD working solution) for 10-15min, and Tray 3 (de-ionized water) for an initial rinse of the evidence, followed by a second rinse with running tap water and drying with heat press. Visually examined evidence after drying |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------------|---|
| ER64P6 | Visual Examination | White light, blue light with yellow glasses, green light with red glasses. No visible print. |
| | Cyanoacrylate Fuming | No print visible after processing. |
| | Powder Dusting | Black magnetic, gray magnetic, carbon powder. No print visible after processing. |
| | 1,2-Indanedione | Processing time 10 minutes at 100 C. No print visible after processing. |
| | Ninhydrin | Processing time 2 minutes at 80 C and 62%RH. No print visible after processing. |
| | Dye Stain | Basic Yellow 40. No print visible after processing. |
| EV9LFL | Visual Examination | |
| | Alternate Light Source | 365nm, 350-380nm, 445-510nm |
| | Laser | Laser: 532nm |
| | Cyanoacrylate Fuming | CA: 15 mins at 75-80% RH |
| | Powder Dusting | Powder ALS: 350-380nm |
| | 1,2-IndZnCl | 1,2-IndZnCl: Humidity chamber for 20 mins at 80 C, 65%RH |
| EW7WBP | Visual Examination | A visual examination was completed of this item in its entirety and a general description was notated on the Forensic Processing Worksheet. |
| | Lumicyano Fuming | This item was placed into a fuming chamber. A Lumicyano solution was utilized in the fuming chamber together with molecular grade water in order to move through the fuming processes of evaporation, saturation, absorption and polymerization. To go through the steps the fuming chamber entered three different cycles. The humidity cycle occurs first and is roughly 15 minutes long where the chamber attempts to reach roughly 80% humidity. The second cycle is the glue cycle which occurs for about 25 minutes at roughly 120 degrees Celsius. The third cycle is the purge cycle which occurs for about 20 minutes. This item was processed together with a QC. The QC showed the process worked correctly, however ridge detail was not observed on this item. |
| | Vacuum Metal Deposition (VMD) | The VMD was utilized in order to potentially develop ridge detail since the first attempted method did not. This item was placed into the VMD where it was exposed to silver and zinc deposited metals. This item was processed together with a QC. The QC showed the process worked correctly, however ridge detail was not observed on this item. |
| FD2ZZ6 | Visual Examination | |
| | Alternate Light Source | various wavelengths with appropriate filters |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | standard powder |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| FEHXM3 | Visual Examination | No latent printed detailed observed through visual examination. |
| | Cyanoacrylate Fuming | The glossy photograph was inserted in a sealed glass tank with Cyanoacrylate. After making this procedure with a period of 15 minutes the sample not develop the fingerprint. |
| | Powder Dusting | Black Magnetic Fingerprint Powder |
| | Alternate Light Source | Light UV in combination with orange glasses. The sample develop fingerprint fragment. |
| FJDRMP | Visual Examination | A visual inspection was performed to identify dactyl print impression. |
| | Alternate Light Source | An inspection with alternating white and vivid light was performed to identify a fingerprint impression. |
| | Powder Dusting | Fingerprint impression was developed using black magnetic powder, resulting in a negative for fingerprint impression. |
| FMGJVP | Powder Dusting | Magnetic Powder used. No prints developed |
| FPZJQC | Cyanoacrylate Fuming | processing time: 30 min dye stain: super glue, MBD reaction needs 75-80 percent humidity |
| FQWBLH | Cyanoacrylate Fuming | |
| | Powder Dusting | |
| | Alternate Light Source | |
| FRNCLE | Visual Examination | |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | Clean powder |
| | Powder Dusting | Clean magnetic powder |
| | Dye Stain | Chemical: Adrox ID #: 22-0046 |
| FT2LWZ | Visual Examination | It begins with a visual inspection of the piece of evidence to locate papillary ridges. |
| | Alternate Light Source | Subsequently, the search is carried out with alternating white and ultraviolet light, but no papillary ridges are located. |
| | Cyanoacrylate Fuming | The piece of evidence is placed inside a gas box, to use the "cyanoacrylate". Heat is applied to the cyanoacrylate transforming it from liquid to gas. The gas encapsulates the papillary ridges, developing a fingerprint fragment in the D quadrant. |
| FY8D8J | Visual Examination | |
| | Alternate Light Source | Examined at 350nm and 515nm |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | Magnetic powder used |
| | Dye Stain | Aqueous Rhodamine- examined at 515nm. Aqueous Ardrex- examined at 350nm |
| | Ninhydrin | |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|------------------------|------------------------|--|
| G32X4E | Visual Examination | Oblique White Light Crime Lite ML2 White Light Bright Beam Dual Laser, Green and Blue with Yellow and Orange Goggles |
| | Cyanoacrylate Fuming | Foster Freeman MVC 3000 Glue time 12 minutes Heat Plate 120 Degrees Celsius Humidity 80 Percent Cyanoacrylate Lot #202202520 Test Print Positive |
| | Dye Stain | MBD Lot #072722-01 Viewed Crime Lite ML2 420-470 GG495 Yellow Filter Bright Beam Dual Laser, Green and Blue with Yellow and Orange Goggles Test Print Positive |
| | Powder Dusting | Black Magnetic Powder Lot #201504053-04 Test Print Positive |
| | Powder Dusting | Standard Black Powder Lot #201804187 Test Print Positive |
| | Powder Dusting | Red Fluorescent Powder Lot #121119-01 Test Print Positive |
| | G4Y9YG | Visual Examination |
| Alternate Light Source | | blue, cyan, green light observed through orange filter |
| Cyanoacrylate Fuming | | MVC3000, full incubation cycle in temperature 120C and relative humidity 80%, three times |
| Powder Dusting | | Bichromatic magnetic powder |
| DFO | | Solution based on HFE7100, (like in the case of Item 1), observed then in blue, cyan and green light through orange filter. |
| GA332P | Visual Examination | Visually examined the glossy photo paper for the presence of friction ridge detail |
| | Cyanoacrylate Fuming | Glossy photo paper was placed in the superglue chamber (set up: aluminum tray with superglue and distilled water). Visually examined the glossy photo paper for any white residue indicative of friction ridge detail |
| | Dye Stain | Glossy photo paper was subjected to the dye stain Rhodamine 6G and dye any possible friction ridge detail a yellow/pink color |
| | Alternate Light Source | Using a laser at 532nm and orange filter goggles, visually examined the glossy photo paper for friction ridge detail |
| | Powder Dusting | Dusted the glossy photo paper with bi chromatic magnetic powder which will turn any residue of friction ridge detail gray color |
| GEFTLY | Visual Examination | At 10:02am, the evaluation of the piece begins and it does not show visible ridges. |
| | Alternate Light Source | After having no result with visual evaluation, the inspection was carried out by means of alternate light, ultraviolet light giving negative result. |
| | Cyanoacrylate Fuming | Using cyanoacrylate, which when converted from a liquid to a gas causes the papillary ridge to encapsulate, placed in an aluminum tray inside a Pandora Box, the piece of evidence is placed inside the box and covered, waiting for 10 to 20 minutes. I don't develop any fingerprints. |
| GKHWDH | Cyanoacrylate Fuming | fumed in Chamber. |
| | Dye Stain | Basic yellow dye stained. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|--|---|
| GNMMHD | Visual Examination Cyanoacrylate Fuming Fluorescent Powder dusting | |
| GPKYR | Cyanoacrylate Fuming Dye Stain Visual Examination | Fumed using Cyvac with cyanoacrylate (3027) dyed stained with R6G (SV2022-R6GW-14) Inspected with visible light and uv light |
| GUTYYJ | Cyanoacrylate Fuming | |
| HBRRNP | CYVAC Dye Stain | Fumed in Cyvac; viewed with RUVIS Stained with basic yellow; viewed with forensic laser blue light |
| HFFG6T | Visual Examination Cyanoacrylate Fuming 1,2-Indanedione Ninhydrin | White light, UV, co-axial light Lumicyano (CTS) Fuming cabinet MVC1000 (Foster+freeman) 160°C, 10 sec RT, 72h |
| HHCVN6 | Visual Examination Cyanoacrylate Fuming 1,2-Indanedione Ninhydrin Powder Dusting | Item viewed under white light, flashlight, CrimeScope ALS, and TracER laser Item was fumed in a Mystaire chamber for approximately 11 minutes at 80% humidity. 1,2-Indanedione was applied to the item and developed in an oven at 90 degrees C for 20 minutes. Item was viewed under the TracER laser. Ninhydrin was applied to the item and developed in a humidity over at 90 degrees C and 80% humidity for 20 minutes. Item was dusted using green florescent powder with a feather brush to mitigate the color variation on the background. Item was viewed under the ALS at 495nm. |
| HW8C9 | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting 1,2-Indanedione Ninhydrin Dye Stain Physical Developer (PD) | Magnetic Powder |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| HXMJUE | Visual Examination | Visual Exam with high intensity white light. No visible ridge detail observed. |
| | Cyanoacrylate Fuming | Cyanoacrylate Fuming (11 min, 80% Humidity, Control Positive). No visible ridge detail observed. |
| | RUVIS | Visual Exam with RUVIS Imager, Control Positive. No visible ridge detail observed. |
| | Dye Stain | Rhodamine (R6G) with Laser (532nm, Control Positive, Orange Filter) No visible ridge detail observed. |
| J22CTK | Cyanoacrylate Fuming | 1 hour |
| | Powder Dusting | GREEN WOP VIEWED UNDER CSS/520NM WITH ORANGE FILTER |
| | DFO | 20MIN IN 100C OVEN |
| | Ninhydrin | HUMIDIFIED WITH STEAM IRON |
| J6UPYG | Cyanoacrylate Fuming | |
| | Powder Dusting | |
| J6YXCA | Cyanoacrylate Fuming | the item was placed in super glu fuming for 30 minutes |
| J92T36 | Visual Examination | The item was visually examined with the naked eye and then with oblique lighting, and nothing was observed. |
| | Alternate Light Source | The item was then viewed under the forensic light source (FLS) and nothing was observed. |
| | Cyanoacrylate Fuming | The item was then processed with CA in a fuming chamber, for less than 5 minutes. No prints were observed. |
| | Powder Dusting | I then used magnetic powder to search the item for latent prints. No prints were observed. |
| | DFO | The item was then saturated in DFO and dried thoroughly. The item was then placed in a humidity chamber for approximately 15 minutes. The item was viewed under the FLS, and no prints were observed. |
| | Ninhydrin | The item was again saturated, this time with Ninhydrin (Petroleum Ether). Once dry, the item was placed in the humidity chamber for approximately 10 minutes. No prints were developed. |
| | Dye Stain | I then applied Rhodamine 6G to the item, and viewed it under the FLS. Again, no prints were observed. |
| J9G6RW | Visual Examination | First we did visual check with light sources (bright light, UV, Blue, Blue/Green, Green, Violet). No results |
| | Cyanoacrylate Fuming | We put sample to Foster&Freeman MVC 3000 cabin. 15 drop cyanoacrylate. 120 celsius, hum 80%, 15 min. |
| | Powder Dusting | We tried first magnetic powder, no results. We changed to "Swedish black"-carbon powder, no results. We tried all light sources we have. (bright light, UV, Blue, Blue/Green, Green, Violet). No results |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| JDTCT2 | Visual Examination | Performed VIS utilizing oblique lighting. |
| | Alternate Light Source | Utilized 520nm LASER, 445nm blue light , 365nm UV, and 254nm. |
| | Cyanoacrylate Fuming | Performed VIS then utilized FSIS II and 254nm. |
| | Powder Dusting | Applied black magnetic powder and Gray magnetic powder. |
| | 1,2-Indanedione | Placed in the oven for 20 minutes then utilized 520nm LASER. |
| | Ninhydrin | Placed in humidity chamber for 15 minutes then performed visual. Visualized print. |
| | Dye Stain | Applied RMO then utilized 520nm LASER and 445nm blue light. |
| | Physical Developer (PD) | Placed item in Maleic Acid for 10-15 minutes. Placed item in redox working solution for 10-15 minutes. Rinsed item with DI water then rinsed item with tap water. |
| JDW4J | Visual Examination | White light |
| | Alternate Light Source | 365 nm, 445-510 nm |
| | Cyanoacrylate Fuming | Fume time: 15 minutes. Humidity set point: 80% |
| | Powder Dusting | black magnetic powder |
| | 1,2-Indanedione | 532 nm (-laser) |
| JJ3JJ7 | Visual Examination | |
| | Cyanoacrylate Fuming | A test print was placed in the Foster Freeman MVC 3000. |
| | Powder Dusting | I used black magnetic fingerprint powder to process the photograph. No ridge detail was found or developed on the photograph. |
| JKXUQ3 | Visual Examination | Performed visual examination with white light, alternate light source, laser. |
| | Cyanoacrylate Fuming | Placed the item in an airtight superglue chamber with a humidity of about 70-78 for 3 minutes. |
| | Visual Examination | Performed visual examination with white light, alternate light source, laser. |
| | Powder Dusting | Applied black magnetic powder. |
| | Visual Examination | Performed visual examination with white light, alternate light source, laser. |
| | Dye Stain | Sprayed fluorescent dye stain (RAM - Rhodamine G6, Ardrex, MBD) and let it sit for about 10 minutes. |
| | Visual Examination | Performed visual examination with white light, alternate light source, laser. |
| JL69VM | Cyanoacrylate Fuming | in Environmental Chamber |
| | Alternate Light Source | UV Light |
| | Dye Stain | basic yellow with forensic laser; no improvement over UV light |
| JLN22Q | Powder Dusting | Item was processed in about five minutes using magnetic powder and a feather duster. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| JNFXR7 | Visual Examination | Item was examined under a magnifier with a light. No ridge detail was observed. |
| | Cyanoacrylate Fuming | I placed the item into a CA chamber along with a tin of CA on a warming plate and a container of hot water for humidity. Item was examined using a magnifier with a light. No ridge detail was observed. |
| | Dye Stain | I applied MRM-10 dye stain on to the item. After drying, I examined the item using a FLS at 450nm with an orange filter. No ridge detail was observed. |
| | Dye Stain | I applied Basic Yellow dye stain on to the item. After drying, I examined the item using a FLS at 450nm with an orange filter. No ridge detail was observed. |
| | Methanol rinse | I completed a rinse of the item using Methanol. I examined the item using a FLS at 450nm with an orange filter. No ridge detail was observed. |
| | Magna powder | I brushed the item with a black magna powder. I examined the item using a magnifier with a light. No ridge detail was observed. |
| JRUCAY | Cyanoacrylate Fuming | The glossy photograph was placed in a cyanoacrylate vacuum chamber for two hours. |
| | Black Powder | the item was processed with black powder and a powder brush. |
| | Visual Examination | No ridge detail was observed. |
| | Magnetic Powder | the item was processed with magnetic powder |
| | Visual Examination | No ridge detail was observed. |
| | Dye Stain | The item was sprayed with RAM dye stain and allowed to soak for approximately 1 minute. The item was then rinsed with DI water and hung to dry. |
| | Alternate Light Source | The photograph was visually examined using an alternate light source and filtered lenses. No ridge detail was observed. |
| JTR49C | Alternate Light Source | 455-515nm |
| | Cyanoacrylate Fuming | atmospheric fuming 20 minutes |
| | Powder Dusting | black powder, black magnetic powder, bi-chromatic powder, |
| | Dye Stain | Rhodamine 6G |
| | Ninhydrin | processing time ~24 hours |
| | DFO | ALS 455-515nm |
| JW8F6T | Alternate Light Source | White Light: The sample was inspected using a white light spectrum, it was illuminated obliquely in order to be able to appreciate any presence of a papillary ridges; It did not reflect any presence. UV light: The sample was inspected using a 395nm UV light spectrum, it was illuminated obliquely using safety glasses, in order to appreciate any presence of a papillary ridges; It did not reflect any presence. |
| | Powder Dusting | I proceed to work on the Glossy Photography with the Black Magnetic Graphite Powder, it is deposited in the sample Photograph, and no presence of papillary ridges was detected. All the Glossy Photography was worked on and there was no presence of papillary ridges in the sample. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| JW8HN7 | Visual Examination | White light and FSIS |
| | Cyanoacrylate Fuming | |
| | Visual Examination | with FSIS |
| | Powder Dusting | Fluor Green under laser |
| | Dye Stain | |
| | Alternate Light Source | DCS5 and laser |
| JYRL8W | Visual Examination | White light. |
| | Cyanoacrylate Fuming | Fuming chamber for approx. 20 minutes. White light. |
| | Powder Dusting | Bi-chromatic powder. White light. |
| | 1,2-Indanedione | Dipped and utilized humidity chamber for 10 minutes. Used with LASER. |
| | Alternate Light Source | RUVIS |
| | Ninhydrin | Dipped and utilized humidity chamber for 10 minutes. White light. |
| | Dye Stain | Rhodamine 6G with LASER |
| K22RLB | Cyanoacrylate Fuming | Powder dusting with contrasting powders before and after cyanoacrylate fuming |
| K2WDXP | Cyanoacrylate Fuming | climate chamber: 80% humidity, 130 degree Celsius |
| | Cyanoacrylate Fuming | climate chamber: 80% humidity, 130 degree Celsius |
| | Powder Dusting | no development |
| K3BYHC | Visual Examination | Looked over the photograph to see if there was any ridge detail visible before chemical processing. Used a flashlight and fluorescent lights. |
| | Alternate Light Source | Used several wavelengths with the alternate light source (ALS) to see if any part of the item fluoresced and it did not. The ALS was tested and performed as expected before using it on the item. |
| | Cyanoacrylate Fuming | Fumed the item with cyanoacrylate. The chamber was set at 75% humidity and was run for 15 minutes. No development of ridge detail was observed. The latent print standard in the chamber performed as expected. |
| | Powder Dusting | Fluorescent powder was applied to the photograph since cyanoacrylate fuming did not develop any ridge detail. No ridge detail was observed after the application of powder. The fluorescent powder was tested and performed as expected before using it on the item. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| K7B64A | Visual Examination | Examined using Crimelite and TracER Laser. |
| | Cyanoacrylate Fuming | Item incubated in F+F MVC-5000 autocycle for ~70 minutes. Item examined using Crimelite. |
| | Powder Dusting | Black powder was used. Item examined with Crimelite and Incandescent lighting. |
| | DFO | Item incubated in oven @ ~100°C for 20 minutes. Item examined using TracER Laser. |
| | Ninhydrin | Item incubated in humidity chamber @~65% relative humidity and 80°C for 3 minutes. Item examined using Crimelite and Incandescent lighting. |
| KAU4DX | Powder Dusting | evidence objet 3 was treated for one minute by black magnetic powder, ref. no. A2412w, but don't develop fingerprint fragments |
| KDUF9X | Powder Dusting | Item #3 was treated for one minute by Black magnetic powder, ref. No. A-2412W, but I dont develop fingerprint fragments. |
| KHLR29 | Visual Examination | The item was examined with a white light source held at an oblique angle. |
| KHP6TB | Visual Examination | Viewed under magnifier and white light |
| | Cyanoacrylate Fuming | Placed into superglue chamber with boiling water, glue in tin tray on heat plate, and a control on plastic. Allowed item to fume for approximately 15 minutes. |
| | Powder Dusting | After viewing item, used regular black powder to dust item after superglue fuming |
| KJEFQV | Visual Examination | Visual examination of glossy photograph |
| | Powder Dusting | applied magnetic powder with negative results |
| | Cyanoacrylate Fuming | applied cyanoacrylate, negative results |
| | Powder Dusting | applied magnetic powder, negative results |
| KMGDXH | Visual Examination | 11/30/2022: visual examination under ambient light |
| | Lumicyano fuming | 11/30/2022: Fumed in a Foster + Freeman MVC 3000 with reagent of 5.5 scoops of the Lumicyano powder mixed with 90 drops of the Lumicyano solution. Humidity cycle of 15 minutes with relative humidity increasing to 80%, followed by fuming cycle of 25 minutes with a relative humidity of 80%, followed by 20 minutes of a purge cycle. QC positive. |
| | Alternate Light Source | 11/30/2022: QC positive under laser light source (green light/532nm). No ridge detail observed on item with laser (green light/532nm). |
| | Rhodamine 6G | 12/1/2022: Prepared a solution of 0.01g of Rhodamine 6G powder with 100 mL of methanol. QC positive under laser light source (green/532nm). Carefully applied (painted) prepared solution on the glossy side of item. |
| | Alternate Light Source | 12/1/2022: Examined item under laser light source (green/532nm). No ridge detail observed. |
| | Vacuum Metal Deposition | 12/7/2022: Item run in VMD (gold, then zinc, then silver) with a QC. QC was positive and showed development. Item examined with ambient and oblique lighting. No fingerprint or ridge detail was observed. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| L8JLTT | Visual Examination | Coaxial light (DCS 5, VSC 8000) |
| | Cyanoacrylate Fuming | MVC 1000 (RH 80%, superglue evaporation temp. 120oC, evaporation time 10min). |
| | Vacuum metal deposition | VMD 560 (gold+zinc) |
| LBKPLF | Visual Examination | Exhibit was visually examined for prints. |
| | Cyanoacrylate Fuming | Exhibit was processed by cyanoacrylate ester (superglue) under a vacuum for over 1 hour, allowed to cure. |
| | DFO | Exhibit was processed by 1, 8-Diazafluoren-9-one (DFO) and dried overnight (24 hours) |
| | Dye Stain | Exhibit was dye stained with Rhodamine 6G (R6G) |
| | Alternate Light Source | Exhibit was viewed using a 530nm/green forensic laser. |
| LCRZGJ | Cyanoacrylate Fuming | Cyanoacrylate chamber was used for Glossy Photograph. Put in chamber for 40 minutes. Purged for 5mins. No prints developed. Lot#05032021MI. EXP:05/03/23 |
| LCTWUA | Visual Examination | visually examined utilizing flashlight |
| | Cyanoacrylate Fuming | utilized CA in superglue chamber |
| | Dye Stain | R6G |
| | Alternate Light Source | TRACER LASER |
| | Powder Dusting | mag powder |
| | Cyanoacrylate Fuming | CA fumed for 2nd time following negative results |
| | Dye Stain | R6G |
| | Alternate Light Source | TRACER LASER |
| | Powder Dusting | mag powder |
| LGZGH7 | Physical Developer (PD) | The photographic fixation of the sealed evidence was conducted and once it was opened the same procedure was carried out, it was observed to determine the type of reagent to be used, a silver reagent was used to perform the contrast with the background of the evidence. All 4 quadrants were observed but not I did not locate lofoscopic fragment. Processing lasted about 1 hour. |
| LH32WV | Dye Stain | Cyanoacrylate Ester fuming - 15mins. Magnetic Powder. Rhodamine 6G. Fluorescent Powder. Viewed with FSIS between each method used |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| LP48F4 | Visual Examination | Optical Examination was conducted using the Polilight (000) white light. |
| | Cyanoacrylate Fuming | The item was then placed in the tank for Cyanocrylate Fuming along with a test glass piece. The item was then screen using the Polilight (000) white light where no development was observed, I used several different nm. The item was then left overnight for any glue deposits to harden. |
| | 1,2-Indanedione | After another optical examination i used the IND-ZN, the item was placed in the working solution and then dried in the fume hood. Once dried i heated the item for 10 seconds using the heat press. I then screened the item using the Polilight (505nm) wearing orange goggles with no development observed. I also screen the item using different nm such as (530nm) and no developments observed. |
| | Cyanoacrylate Fuming | I then placed the item back into the tank for Cyanocrylate Fuming as outlined above and left overnight. |
| | Dye Stain | After another examination I used Ardrex method, I tested a corner of the item prior to application. I then treated the item using a pipette, it was then rinsed in deoxidised water and allowed to dry in the fume hood. I then viewed the item using the Polilight 350UV wearing clear goggles, and nil development was observed. |
| | Cyanoacrylate Fuming | I then placed the item back into the tank for Cyanocrylate Fuming out outlined above and left overnight. |
| | Ninhydrin | After another examination using the Polilight with different light, I then used the Ninhydrin method, I used the working solution to treat the item, long enough to soak through and it was then dried and placed overnight in an exhibit cabinet. The next day the item was screened and nil development was observed. |
| LTY4Y4 | Visual Examination | white light |
| | Alternate Light Source | polylight. 440 - 520nm. orange filter. |
| | Cyanoacrylate Fuming | 80RH%. 10 min process |
| | Visual Examination | RUVIS |
| | 1,2-Indanedione | 520nm. orange filter |
| | Ninhydrin | |
| | Physical Developer (PD) | |
| LUNPE8 | Visual Examination | Visual examination with lights (390 - 535 nm) and photography+ photoshop. No fingerprints was found. |
| | Cyanoacrylate Fuming | Foster+Freeman MVC 3000, moisture 80%, 120C degrees and gluetime 15 min. Very light print was found in section D with Crime-lite 82S BLUE 420-470nm. Photography+ photoshop. |
| | Powder Dusting | Magnetic powder. Print got a little bit better. Photography+ photoshop. |
| | BY 40 -method | Item was covered BY 40 liquid. Fingerprint didn't get any better. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|--|
| M2ALEG | Powder Dusting | Black magnetic fingerprint powder |
| | Visual Examination | No prints observed to have developed |
| | Cyanoacrylate Fuming | Approximately 10 minutes |
| | Visual Examination | No prints observed to have developed |
| | Alternate Light Source | No prints observed to have developed |
| MC9KJ8 | Visual Examination | White light, Laser 532 nm, Laser 577 nm, FLS |
| | Cyanoacrylate Fuming | Luminescent cyanoacrylate CST (Fumigation chamber MVC 3000 FOSTER+FREEMAN - Automatic Mode) |
| | Alternate Light Source | LABINO Superxenon 325 nm + Yellow filter |
| | Powder Dusting | WHITE HIFI VOLCANO POWDER |
| | Alternate Light Source | White light |
| | 1,2-Indanedione | 1,2-Indanedione/ZnCl ₂ (Ramotowski, 2009), Heating press 165°C – 10 seconds |
| | Alternate Light Source | Laser 532 nm – Orange filter |
| | Ninhydrin | - 4 g ninhydrin - 20 ml ethanol - 10 ml acetic acid - 70 ml ethyl acetate - 900 ml petroleum ether 30 min : Temperature = 80°C, RH = 62% |
| | Alternate Light Source | White light and green light |
| MDEZZL | LPPM R7 | Visual examination, RUVIS, fumed in safefume, visual examination, RUVIS, magnetic latent print powder |
| METJL6 | Cyanoacrylate Fuming | RH 80%. Gluing time 15 min. At first Visual Examination and after that |
| | Magnetic Powder | Magnetic Powder. |
| MJQU84 | Visual Examination | |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | |
| | DFO | ALS 555nm, red filter |
| | Ninhydrin | Natural development 3 days |
| MK2PVG | Powder Dusting | Processed with magnetic black powder and magnetic wand |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| MK6B9P | Visual Examination | No ridge detail. |
| | Lumicyano | Visual examination of glue development. No ridge detail developed. Laser examination of fluorescent glue development with a laser at 532nm and 445nm with orange barrier and AFF-1. No ridge detail. Alternate Light Source: 450nm, 505nm, 555nm with orange, yellow and red barrier 315nm with and yellow barrier. No ridge detail. Second round of Lumicyano processing. Visual examination of glue development. No ridge detail developed. Laser examination of fluorescent glue development with a laser at 532nm and 445nm with orange barrier. No ridge detail. |
| | Powder Dusting | Magnetic grey powder. No ridge detail. |
| | Dye Stain | Water based R6G dye stain. Laser examination with a laser at 532nm and 445nm with orange barrier. No ridge detail. |
| MMPC3B | Visual Examination | 1) Observation with the naked eye of the surface of the glossy photography, under different inclinations. We don't observe trace. The support is determined as half porous support. |
| | Visual Examination | 2) We illuminate the support with the Crimescope MCS-400 at different frequencies with the appropriate colored glasses and at different inclinations. We don't observe trace. |
| | Cyanoacrylate Fuming | 3) In view of half porous support, we place the photography in the fumigation tank. Autocycle for 2g of solution of Lumicyano 8% during 1 hour. A control trace is placed in the tank. |
| | Visual Examination | 4) We observe photography from different angles. We don't observe trace. |
| | Visual Examination | 5) We illuminate the object using the Crimescope MCS-400 at different wavelengths and wearing glasses of appropriate colors. We don't observe trace. |
| | 1,2-Indanedione | 6) In view of half-porous support, we vaporise the solution 1,2-Indanedione, under a hood, on the photography, then we wait 2 minutes for evaporation of the solution. Then the object is placed under a heating press at 165°C during 10 seconds, protecting it with several layers of parchment paper.. The solution 1,2-Indanedione is tested in parallel on a control. |
| | Visual Examination | 7) We observe photography from different angles. We don't observe trace. The surface of the photograph has a few cracks in places, following use in the heated press. |
| | Alternate Light Source | 8) We illuminate the support with the Crimescope MCS-400 at different frequencies with the appropriate colored glasses and at different inclinations. We don't observe trace. |
| | Ninhydrin | 9) We spray the ninhydrin under a hood on the photography, then we wait 2 minutes for the solution to evaporate. Then the object is placed in a cuvette in the dark at room temperature with a beaker of water for 24-48 hours for a slow reaction. The object is checked regularly with the naked eye to verify the revelation of the purple fingerprint. The ninhydrin solution is tested in parallel on a control. |
| | Visual Examination | 10) We observe photography from different angles. We don't observe trace. |
| | Alternate Light Source | 11) We illuminate the support with the Crimescope MCS-400 at different frequencies with the appropriate colored glasses and at different inclinations. We don't observe trace. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| MQNJQU | Visual Examination | The piece of evidence is photographed as it was received and after removing it from the evidence envelope. And then begins to be evaluated visually, giving a negative result. The process began at 9:07 a.m. |
| | Alternate Light Source | A search was carried out with ultraviolet light giving a negative result, continued with blue light and no trace of papillary ridges was found. |
| | Cyanoacrylate Fuming | Using cyanoacrylate, (which when converted from a liquid to a gas causes the papillary ridges to encapsulate, placed in an aluminum tray inside a Pandora's box), the piece of evidence is placed inside the box and covered, waiting for a few ten (10) approximately, not having resulted, it is left another ten (10) minutes, giving a negative result. |
| | Powder Dusting | Gray graphite powder was used to highlight the footprint fragment that could have been encapsulated with the cyanoacrylate, developing after approximately one minute (1) and to have a better color, red/silver magnetic powder was used, thus giving a better highlight to the footprint fragment. fingerprint, which was located in section C. |
| MTFDUP | Visual Examination | natural light; flashlight |
| | Cyanoacrylate Fuming | 60 % humidity. ~120 degrees Celsius. 15 minutes fuming |
| | Powder Dusting | Black powder, black magnetic powder, bi-chromatic powder, white powder |
| | Alternate Light Source | 350/415/445/455/475/CSS*/495/515/535/555/575/600/630/670 - Clear, yellow, orange, red, AFF1 - *CSS setting: 'Crime Scene Search' = Short pass filter; blocks wavelengths over 520 nm |
| | Dye Stain | R6G diH2O based - laser examination @ 532nm with orange barrier filter |
| MWZENC | [No Methods Reported.] | Visual exam, (white light and LASER) **FSIS is inoperable**, CA fumed in atmospheric chamber, Visual, black power, Visual, the processed with DFO (20 min in oven) and viewed under LASER |
| | Cyanoacrylate Fuming | in Atmospheric chamber |
| | Visual Examination | |
| | Powder Dusting | black powder |
| | Visual Examination | |
| | DFO | 20 min. in oven |
| | Visual Examination | View under LASER |
| N7D3UU | Visual Examination | No visible prints. |
| | Cyanoacrylate Fuming | Superglue fumed for 3 minutes. |
| | Powder Dusting | Applied black magnetic powder. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| N9MW2F | Visual Examination | Examination of the photograph using different lights and observation filters. No fingerprint was detected. |
| | Cyanoacrylate Fuming | 15 min of cyanoacrylate fuming / humidity 80%. No fingerprint was detected. On a similar surface the fingerprints were detectable after the cyanoacrylate fuming. |
| | Dye Stain | Dye Stain using Ardrex. No fingerprint was detected. On a similar surface the fingerprints were detectable after the cyanoacrylate fuming and dye staining |
| | Ninhydrin | Spray on the back of the photograph. No fingerprint was detected. |
| NDF9X | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | Magnetic powder |
| | 1,2-Indanedione | |
| | Dye Stain | RhoMeOH |
| | Physical Developer (PD) | |
| NPC3DF | Visual Examination | Ambient lighting and magnifier lamp. |
| | Alternate Light Source | CRIMESCOPE CS-16-500: 350 nm with clear goggles – 415, 445 nm with yellow goggles – 445, 455, 475, CSS, 495, 515 nm with orange goggles – 515, 535, 555, 575 nm with red goggles. |
| | Cyanoacrylate Fuming | Cyanoacrylate fuming was performed in a CA-6000 at 65% relative humidity for 11 minutes. Removed to prevent overprocessing. |
| | Visual Examination | Ambient lighting and magnifier lamp. |
| | Dye Stain | RAM was applied using the squeeze bottle method; allowed to dry for a few minutes in the fume hood. |
| | Alternate Light Source | CRIMESCOPE CS-16-500: CSS with orange goggles. |
| | Ninhydrin | Sprayed with ninhydrin (petroleum ether), then air dried for a few minutes in a fume hood. Heat and humidity is applied with a steam iron for a few minutes |
| | Visual Examination | Ambient lighting and magnifier lamp. |
| | Powder Dusting | Dusted with white fingerprint powder, but not lifted. |
| | Visual Examination | Ambient lighting and magnifier lamp. |
| NQAD9J | Powder Dusting | The item was visually looked at with oblique lighting. No latent print observed. The item was processed with magnetic powder using a magnetic wand. |
| NQMZB6 | Cyanoacrylate Fuming | |
| | Powder Dusting | |
| | Visual Examination | |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|--|---|
| NVHXQN | Cyanoacrylate Fuming | I hang the paper in the fuming tank, add few drops of cyanocrilate to the aluminium tray, exposed the item 40 minutes to the fuming, inspecting the item regularly. the item doesn't develop any fingerprint. |
| NWMGLB | Visual Examination Cyanoacrylate Fuming Powder Dusting Dye Stain | White, Blue and Green light BY40 |
| NYRC3T | Visual Examination Cyanoacrylate Fuming Powder Dusting | Visual examination with magnify glass and oblique lighting, with negative results. Fumed in CY-AT chamber for 15 minutes and allowed to rest for 30 minutes before processing. Fluorescent powder (busy background) and magnetic powder. Visually inspected with magnify glass and oblique lighting with negative results. |
| P94RLE | Cyanoacrylate Fuming | Placed glossy photo in Cyanoacrylate chamber with 40 drops of cyanoacrylate and water. Control sample on black acetate with polymerization standard was also placed in chamber. Processed in chamber for 40 minutes then allowed to purge for 10 minutes. |
| PAFAYT | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting | the piece of evidence is photographed as it was received and after removing from the evidence envelope. Begins to be evaluated visually, giving a negative result. A search was carried out with light giving a negative result. Using cyanoacrylate, (which when converted from a liquid to gas causes the papillary ridges to encapsulate, placed in an aluminum tray inside a pandora's box), the piece of evidence is placed inside the box and covered, waiting for a few ten (10) minutes approximately, not having resulted, it is left another ten (10) minutes, giving a negative result. Red and black magnetic graphite powder is used in the photograph. A fingerprint impression was developed on the letter D. |
| PFJB28 | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting Dye Stain Dye Stain | BLITZ RED MAGNETIC FLUORESCENT FINGERPRINT POWDER BASIC YELLOW MRM10 |
| PJLAF8 | Powder Dusting | I used black mag powder and black powder both Valid to the glossy photograph with negative results. |
| PKE4U3 | Visual Examination Cyanoacrylate Fuming Powder Dusting | Fluorescent powder |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|----------------------|---|
| PUXH2L | Visual Examination | |
| | Cyanoacrylate Fuming | in chamber |
| | 1,2-Indanedione | heat in oven 20 mins dry heat |
| | Ninhydrin | left over night |
| PXHKTR | Visual Examination | Visual exam with white light, Reflected UV Light, and ALS |
| | Cyanoacrylate Fuming | Visual exam with white light and Reflected UV Light |
| | Powder Dusting | Black Magnetic Powder followed by Bi-chromatic powder |
| Q8KAXY | Visual Examination | |
| | Cyanoacrylate Fuming | approx 12 mins |
| | Powder Dusting | Magnetic Powder-negative |
| | Powder Dusting | Dual Tone Powder-negative |
| QGXXEF | Powder Dusting | Black magnetic powder |
| QQWR96 | Visual Examination | I performed a visual examination with natural and oblique lighting. |
| | Cyanoacrylate Fuming | I placed the item in a chamber. I added cyanoacrylate glue into an aluminum dish, which I then placed on the hot plate in the chamber. I also added a beaker of boiling water to the chamber to provide humidity. I turned the chamber on to heat the cyanoacrylate glue into a vapor. I left the item in the chamber for approximately 15 minutes. Once I saw my positive control turn white from the cyanoacrylate fumes, I turned off the hot plate and opened the vent to the chamber. I waited another 5 minutes, then I removed my item from the chamber. |
| | Powder Dusting | I applied black magnetic powder to the item using a magnetic wand. After taking multiple passes over the item, I observed no ridge detail was developing. I viewed the photograph under a lighted magnifying glass and could not find any ridge detail on the item. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| QR8NLW | Visual Examination | Used bright white light and oblique lighting. |
| | Alternate Light Source | Used four light sources; Dual 77 (445nm and 520nm), FSIS (254nm) and 365nm (UV light). |
| | Cyanoacrylate Fuming | Placed item in a superglue chamber and then examined the item using oblique lighting, bright white light and FSIS (254nm) |
| | Powder Dusting | Processed item with black and gray magnetic powder and then examined item using oblique lighting and a bright white light. |
| | 1,2-Indanedione | Processed item with 1,2-Indanedione and let the item completely dry. Item was placed in the 100 degree Celsius oven for approximately 20 minutes. Used bright white light and 520nm (laser) to examine the item. |
| | Ninhydrin | Processed item with Ninhydrin and let the item completely dry. Item was placed in the 76% relative humidity chamber for approximately 15 minutes. Used bright white light to examine the item. |
| | Dye Stain | Processed item with RMO, let the item completely dry and used two light sources; Dual 77 (445nm and 520nm) |
| | Physical Developer (PD) | Processed item with physical developer. Step 1; Item was placed in a maleic acid bath for 15 minutes and then Step 2; item was placed in a Redox Working solution for 15 minutes. Step 3; The item was placed in a distilled water rinse and then Step 4; rinsed with a second water rinse. Examined the item once it was completely dry using a bright white light and oblique lighting. |
| QVMB48 | Visual Examination | WHITE LIGHT UV LASER |
| | Cyanoacrylate Fuming | |
| | METAL DEPOSITION | |
| QYRRTY | Visual Examination | Visual exam using oblique lighting. |
| | Alternate Light Source | Exam using 520nm (Dual 77), 445nm (Dual 77), and 365nm UV. |
| | Cyanoacrylate Fuming | Visual exam, then exam with RUVIS and 254nm UV. Visualized print. |
| | Powder Dusting | Applied gray magnetic powder, then performed visual exam. |
| | 1,2-Indanedione | Placed in oven for 20 minutes, then performed visual exam and exam with 520nm (Dual 77). |
| | Ninhydrin | Placed in humidity chamber for 15 minutes, then performed visual exam. |
| | Dye Stain | Applied RMO, then performed exam with 520nm (Dual 77) and 445nm (Dual 77). |
| | Physical Developer (PD) | Placed in maleic acid solution for 15 minutes. Placed in Physical Developer working solution for 15 minutes. Rinsed with water. Performed visual exam. |
| QZ73YJ | Powder Dusting | work for approximately one minute until the print is seen. I work with Black Magnetic Powder, but i dont develop fingerprint fragments. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| QZLKEA | Visual Examination | |
| | Alternate Light Source | ALS: 365nm 495nm CSS 445-510nm |
| | Cyanoacrylate Fuming | CA: 20 minute fume time at 80% humidity |
| | Fluorescent Powder | Fluorescent red powder observed at 365nm |
| | Ind-ZnCl | Ind-ZnCl 20 min at 70 C, 65% RH observed at 445-570 nm |
| R6WWBB | FSIS | Short and Long ultraviolet illumination |
| | Alternate Light Source | Fluorescence Examination - Blue Laser, Green Laser |
| | Cyanoacrylate Fuming | 70 % Relative Humidity, 14 minutes |
| | FSIS | Short and long ultraviolet illumination |
| | DFO | Dry Heat at 100°C for 15 minutes |
| | Ninhydrin | Steam iron |
| RA788B | Cyanoacrylate Fuming | Placed item into an enclosed chamber. Added humidity source to the cyanoacrylate and fumes at least 10 minutes. |
| | Powder Dusting | Magnetic powder was applied in a light, twisting motion until print developed |
| RAAUKH | Visual Examination | No ridge detail observed |
| | RUVIS | Due to the glossy surface, utilized RUVIS to visualize impression(s); no ridge detail observed |
| | Cyanoacrylate Fuming | Due to the glossy surface, processed with CA to visualize impression(s); no ridge detail developed |
| | RUVIS | Due to the glossy surface, utilized RUVIS to visualize impression(s); no ridge detail observed |
| | Powder Dusting | Fluorescent magnetic powder "dazzle orange" was applied on all sections; no ridge detail developed |
| | Alternate Light Source | No ridge detail observed |
| | LASER | No ridge detail observed |
| RN2PLN | Visual Examination | White Light |
| | Cyanoacrylate Fuming | White Light/RUVIS |
| | Powder Dusting | White Magnetic Powder/White Light (Processed the glossy side of the photograph). |
| | 1,2-Indanedione | Humidity/LASER |
| | Ninhydrin | Humidity/White Light |
| | Dye Stain | RAM/LASER |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|---|--|
| RQAWQ2 | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting | Humidity - 80%. Temperature of the heating plate - 100 Celsius degree. Time - 45 minutes |
| RYGJXG | [No Methods Reported.] | Visual examination / Cyanoacrylate Give lite 400-700mm white and 350-380 UV Magnetic powder |
| T8B6KU | Visual Examination Alternate Light Source Cyanoacrylate Fuming Powder Dusting 1,2-Indanedione Dye Stain Physical Developer (PD) | |
| T8UQDK | Powder Dusting | Red fluorescent magnetic powder was applied using magnetic wand. |
| T9RA8Y | Visual Examination Powder Dusting DFO Ninhydrin Cyanoacrylate Fuming | red fluorescent magnetic powder with laser examination with laser and als examination fluorescent ca processing with visual and laser examination |
| TBT8PE | Cyanoacrylate Fuming Alternate Light Source | vacuum fumed with cyanoacrylate ester in cyvac for 45 min cured for 30 min viewed with UV light |
| TEUDYH | Powder Dusting | Object #3 (ithem 3) was treated with Black Magnetic Powder (3A-2412-w) already also for one minute, it did not developed a fingerprint fragments |
| TFZYDH | Visual Examination Cyanoacrylate Fuming 1,2-Indanedione Ninhydrin | Polychromatic light source (White, UV, Blue, Blue-Green, Green) Fuming time: 10 minutes Superglue: 1g Lumicyano Solution + 4% Lumicyano Powder (1,2-IND / ZnCl2) Processing time within climatic chamber (80°C ; 65% RH): Recovery time + 10 minutes Processing time within climatic chamber (80°C ; 65% RH): Recovery time + 2.5 minutes |
| TGL83E | Cyanoacrylate Fuming | introduced to superglue tank for 20 minutes at 78 percent humidity. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| TJPYX8 | Visual Examination | Direct and oblique white light, fluorescence verification at wave lengths 345, 470, 490, 505 and 530 nm |
| | Cyanoacrylate Fuming | Relative humidity:80% ; Temperature: 118-123 °C ; Cyano glue quantity : 0.83 g; Exposure time : 15 min |
| | Powder Dusting | Red fluorescent powder |
| | VMD | Au/Zn followed by Ag |
| TPQF8T | Visual Examination | Examined with white, blue and green light. No fingerprint visible. |
| | Cyanoacrylate Fuming | Processing time 6.5 min, 2.0 gram cyanoacrylate. 80% humidity. No fingerprint visible. |
| | Powder Dusting | Instant white powder and Swedish black powder. No fingerprint visible. |
| | 1,2-Indanedione | Processing time 10 min, temperature 100 degrees. No fingerprint visible. |
| | Ninhydrin | Processing time 2 min, temperature 80 degrees, 62% humidity. No fingerprint visible. |
| | Dye Stain | Basic yellow 40. No fingerprint visible. |
| TPVTUN | Visual Examination | We watch Item3 with Crime-Light 82S Uv nm365 and white light, nothing .. |
| | Polycyano | We put Item2 in Foster-Freeman MVC3000 and used Polycyano glue. Processing time was 20 min and temperature 230. |
| | Powder Dusting | We used also Supranano red fluorescent powder. |
| TURD6Z | Visual Examination | used side lighting / oblique lighting |
| | Cyanoacrylate Fuming | Air science cyanoacrylate fuming chamber #1, 15 minutes at 73 degrees F and 80% humidity |
| | Dye Stain | Sprayed with Rhodamine 6G (water base) |
| | Alternate Light Source | Laser (Bright Beam) exam at 532nm / used orange goggles |
| | Powder Dusting | processed with white magnetic powder |
| U9YZHM | Alternate Light Source | Examination took place at the FSIS facility, conditions: UV Lens 78 mm F/3.8, aperture ISO 11, UV light |
| | Cyanoacrylate Fuming | The examination took place in the climacteric room: "Woigtlander" 3315-01, with the following conditions: temperature - 120 degree, humidity - 80%, time: 25 min, cyanoacrilate solution "SomaFix siperglue". |
| | Iodine | Iodines Cristales were used in dexicator, 60 min, temperature 30% |
| | Physical Developer (PD) | A magnetic dactyloscopic powder were applied: "CRP, magnetic silver/black" |
| UAWBEP | Visual Examination | Green light (500-550nm), filter 549nm. Blue light (430-470nm), filter 476nm. Visual examination |
| | Cyanoacrylate Fuming | 10 min |
| | Powder Dusting | Magnetic-black |
| | Dye Stain | Basic Yellow 40 |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| UAYXXN | Visual Examination | Visual examination with white light. |
| | Cyanoacrylate Fuming | Placed in fuming chamber for 3 minutes at 60% humidity. |
| | Powder Dusting | Applied magnetic powder followed by black powder. |
| ULPQ3Q | Visual Examination | No visible friction ridge detail noted |
| | Alternate Light Source | No visible friction ridge detail noted |
| | Cyanoacrylate Fuming | 20 minutes processing time (test strip used) to include extraction of fumes |
| | Visual Examination | No visible friction ridge detail noted |
| | Alternate Light Source | No visible friction ridge detail noted |
| | Powder Dusting | Fluorescent powder, 5 minutes processing time |
| | Visual Examination | No visible friction ridge detail noted |
| | Alternate Light Source | No visible friction ridge detail noted |
| | Ninhydrin | 20 minutes processing time |
| | Visual Examination | No visible friction ridge detail noted |
| | Alternate Light Source | No visible friction ridge detail noted |
| UM2GG2 | Visual Examination | No latent print observed. |
| | 1,2-Indanedione | No latent print observed. |
| | Ninhydrin | No latent print observed. |
| | Physical Developer (PD) | No latent print observed. |
| UNC7V8 | Visual Examination | light 312 nm |
| | Cyanoacrylate Fuming | temp. 21 C, humidity 80%, time 15 min |
| | Dye Stain | light 350-505nm |
| UPU4FJ | Powder Dusting | Graphite powder was applied to detect the latent print, the same was worked to clean and then to be able to photograph. |
| UW8BP9 | Visual Examination | in natural light and light from forensic illuminator - a latent print was observed in section A (254 nm - 312 nm) |
| | Cyanoacrylate Fuming | time 15 min, RH - 80% - discovered fingerprint marks did not improved |
| | Powder Dusting | fingerprint powder REDCHARGE applied with brush - the observed fingerprint marks did not improved |
| V2FULF | Cyanoacrylate Fuming | Lot #: 042621-05 Humidity: 80% Temperature: 120 degrees C Control Print: Positive Processing Time: Auto Humidify 17:00 minutes, Auto Glue 13:minutes Equipment Used: MVC 3000 |
| | Visual Examination | No ridge detail observed. |
| | Powder Dusting | Bichromatic powder lot #: 111219 |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| V9EHYD | Visual Examination | Visual examination with white light source and with different light source examination: oblique light technique, spectroscopic technology, grazing light... No fingerprint detected |
| | Alternate Light Source | Examination with multi-spectrum forensic light: Poly-light ROFIN PL500R between the different light ranges from ultraviolet light to infrared light. No fingerprint detected |
| | Cyanoacrylate Fuming | Application of cyanoacrylate reagent with cyanoacrylate fuming cabinet. The values of the hood have been: 70%-80% humidity and plate temperature up to 140°C. |
| | Visual Examination | Visual examination with white light source and with different light source examination: oblique light technique, spectroscopic technology, grazing light... No fingerprint detected |
| | Powder Dusting | Application DAZZLE RED FLUORESCENT mechanic reagent |
| | Visual Examination | Visual examination with UV light (350Nm). Visualization one latent fingerprint in section B (the same). No fingerprint detected |
| | 1,2-Indanedione | Application 1,2 Indanedione- Zinc Chloride reagent procedure with oven (100°C) during 20 minutes. |
| | Alternate Light Source | Examination with multi-spectrum forensic light: Poly-light ROFIN PL500R between 490Nm- 550Nm No fingerprint detected |
| | Ninhydrin | Application Ninhydrin- Petroleum ether reagent procedure with oven (80°C 65% humidity) during 20 minutes. |
| | Visual Examination | Visual examination with white light source: No fingerprints detected |
| | Physical Developer (PD) | Application Physical Developer reagent procedure: step 1, 15 minutes inside Maleic Acid solution + (step 2) 30 minutes Physical Developer solution + (step 3) rinse with tape water + (step 4) on 2 hours oven 40°C |
| | Visual Examination | Visual examination with white light source: No fingerprints detected |
| VF2FV2 | Visual Examination | ambient and fluorescent |
| | Alternate Light Source | Crime scope, 515 nm, orange filter; possible ridge detail/swipe mark |
| | Cyanoacrylate Fuming | Mystaire fuming chamber, 80% humidity, 11 minutes; nothing additional observed |
| | Alternate Light Source | Crime scope, full range with and without orange filter; same possible ridge detail/swipe mark Bright Beam Laser, orange filter; same possible ridge detail/swipe mark |
| | Powder Dusting | Magnetic black and regular black powder; no detail developed |
| | Dye Stain | Rhodamine 6G, Crime scope, 515 nm, orange filter; same possible ridge detail/swipe mark |
| VF34A7 | Visual Examination | Natural light, white light, optical instruments. |
| | Cyanoacrylate Fuming | Processing time: 10 min, humidity: 80% |
| | Visual Examination | White light /angle light, optical instruments. |
| | Powder Dusting | Ferro-magnetic powder. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| WU2AF | Visual Examination | under white light |
| | Alternate Light Source | fluorescence examination (350 nm - 650 nm under appropriate color barrier filters). Wavelengths ranging from 350 nm to 650 nm is a standard procedure applicable in our laboratory. |
| | Cyanoacrylate Fuming | in the fuming chamber with a humidity 80% for 10 minutes; visual examination under white light and fluorescence examination in alternate light source (350 nm - 650 nm under appropriate color barrier filters) |
| | Powder Dusting | Fluorescent Powder BLITZ-PINK ; fluorescence examination (350 nm under yellow barrier filter) |
| WLNFE | Visual Examination | Natural light used for visual examination. No friction ridge detail observed. |
| | Alternate Light Source | CrimeScope ALS utilized. No fluorescent friction detail observed. |
| | Cyanoacrylate Fuming | Glossy photograph was processed with CA for approximately 15mins with 12min purge time. No friction ridge detail observed. |
| | VMD - Gold/Zinc | Glossy photograph processed with VMD using the Gold/Zinc two-metal process. No friction ridge detail was observed. |
| | 1,2-Indanedione | Glossy photograph processed with IND. Processing time was approximately 20mins in the heat/humidity chamber. No friction ridge detail was observed. |
| | Powder Dusting | Black, white, and black magnetic powder utilized. No friction ridge detail was observed. |
| WMELC6 | Cyanoacrylate Fuming | Processed by cyanoacrylate ester (superglue) under a vacuum for over 1 hour, allowed to cure. Viewed with a 530nm/green forensic laser. |
| | DFO | Processed by 1, 8-Diazaflooren-9-one (DFO) and placed in an oven at 100 degree C for 20 minutes. Viewed with a 530nm/green forensic laser. |
| | Dye Stain | Processed by R6G and viewed with a 530nm/green forensic laser. |
| WPJC6D | Cyanoacrylate Fuming | Photografic fixation were made with an without metric rule; after this tha item was introduced into the cyanoacrylate chamber for aproximately 30 min. |
| | Powder Dusting | We applited black fingerprint powder. |
| WT9H3G | Visual Examination | |
| | FSIS UV Light | |
| | Cyanoacrylate Fuming | |
| | FSIS - UV Light | |
| | Dye Stain | R6G |
| | Alternate Light Source | |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|--------------------------------|--|
| WV9TQ4 | Visual Examination | |
| | Alternate Light Source | 365nm, CSS, 495nm, 535nm, 555nm, 575nm, 532nm green laser |
| | Cyanoacrylate Fuming | 75-80% relative humidity, 15 minute fume time, white light |
| | Powder Dusting | Fluorescent magnetic powder (with yellow x), 365nm, 495nm |
| | 1,2 Indanedione- Zinc Chloride | visual, 532nm green laser, 70 C, 65% relative humidity for a minimum of 20 minutes |
| X38TPW | Visual Examination | Crimelite, LASER |
| | Cyanoacrylate Fuming | 70 minutes in F+F MVC 5000 chamber |
| | Powder Dusting | Magnetic red |
| | DFO | 100 degrees Celsius for 20 minutes |
| | Ninhydrin | Allowed 2 weeks for development |
| X4LZBD | Powder Dusting | black fingerprint powder on a fiberglass fingerprint brush |
| X82ERT | Visual Examination | Visual examination, Item was placed in the Cyvac cyanoacrylate fuming chamber for 1 hr. Item was visually examined then powdered with fluorescent powder, and viewed with laser, then processed with DFO (20min), viewed w/laser, Nin (20min w/humidity) viewed natural light. |
| | Cyanoacrylate Fuming | superglue placed in the Cyvac cyanoacrylate fuming chamber for 1 hr. |
| | Visual Examination | |
| | Powder Dusting | with fluorescent powder |
| | Visual Examination | viewed with laser |
| | DFO | 20 min. |
| | Visual Examination | viewed w/laser |
| | Ninhydrin | 20min w/humidity |
| | Visual Examination | viewed natural light |
| X8KB7D | Powder Dusting | Processed with black powder with negative results. |
| | Cyanoacrylate Fuming | Processed in fuming chamber and then R6G and alternate light source with negative results. |
| XA6C2Z | Visual Examination | Equipment: High intensity white light. No ridge detail observed. |
| | Ruvis | Equipment: Ruvis. Control positive. No ridge detail observed. |
| | Cyanoacrylate Fuming | 11 minutes/ 80% humidity. Equipment: Cyanoacrylate Fuming Chamber. Control Positive. No ridge detail observed. |
| | Ruvis | Equipment: Ruvis. Control positive. No ridge detail observed. |
| | Dye Stain | R6G. Equipment: TracER laser. Control positive. No ridge detail observed. |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|-------------------------|---|
| XEYXJL | Visual Examination | |
| | Alternate Light Source | |
| | Cyanoacrylate Fuming | humidity: 80%, temperature of the heating plate - 100 degrees Celsius, time - 35 minutes |
| | Powder Dusting | |
| XFRC7E | Visual Examination | Examination in a daylight and with forensic light sources with appropriate filters (light sources – POLILIGHT PL 500, PAGLAB MSA-810, VSC 400 Foster Freeman). |
| | Cyanoacrylate Fuming | 20 min exposure, 120° C, 80% humidity, viewing in white light and in ~505-530 nm range with forensic light sources + appropriate filters. |
| | Powder Dusting | Dusting surface with aluminium latent print powder (colour – grey/silver), viewing in a daylight and white light with forensic light sources. |
| XG9AVX | Visual Examination | I performed a visual examination by looking at the item using natural lighting and oblique lighting at different angles to see if any ridge detail is present. |
| | Cyanoacrylate Fuming | I placed the item into the superglue chamber. I added superglue into an aluminum dish and placed that onto a hot plate inside the chamber. I also added a glass beaker with hot water into the chamber to provide humidity. I placed a control print onto the interior of the glass of the chamber to ensure the superglue was fuming properly. I turned the chamber on and let the hot water rehydrate any ridge detail that is present, and the superglue fumes adhered to any ridge detail. I left the item inside the chamber for approximately 15 minutes. Once I observed the control turn white from the superglue fumes, I turned the chamber off and vented the chamber. |
| | Powder Dusting | Using black powder and a fingerprint brush I powdered the item. |
| XMBJY6 | Cyanoacrylate Fuming | ~1 hr |
| | Powder Dusting | Biochromatic |
| | Amino acid reagent | 1,2-indanedione ZnCl, viewed w/ 520nm |
| XWEMXM | Visual Examination | |
| | Forensic Light Sources | |
| | Cyanoacrylate Fuming | |
| | Magnetic Powder | |
| | 1,2-Indanedione | |
| | Dye Stain | |
| | Physical Developer (PD) | |
| Y28ZKW | Cyanoacrylate Fuming | Chamber #1 Auto Cycle Lot #202202520 |
| | Dye Stain | MBD Dye Stain Lot #072722-01 |
| | Powder Dusting | Black Magnetic Powder Lot #201504033-04 |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| Y7MM39 | Visual Examination | |
| | Cyanoacrylate Fuming | |
| | Powder Dusting | Magnetic Powder-White |
| | Dye Stain | Rhodamine 6G |
| | Alternate Light Source | LASER for visualization of dye stain (R6G) |
| YBC4BT | Visual Examination | |
| | Lumicyano | 5% solution with 14 minute fuming time |
| | DFO | Examined with ALS at 535nm and red filter |
| | Ninhydrin | ambient temp. development |
| YF7226 | Alternate Light Source | Krimesite imager |
| | Cyanoacrylate Fuming | |
| | Alternate Light Source | Krimesite imager |
| YKDNJM | Visual Examination | White, blue and green forensic lightsources. No fingerprint was observed. |
| | Cyanoacrylate Fuming | Fuming routine x 3. During photography with long exposure-time and with strong light a fingerprint was observed in box A. |
| | Dye Stain | No fingerprint was observed after dye stain with BY40. |
| YLCQLX | Visual Examination | Item 3 was visually examined using direct and indirect light. No friction ridge detail was found. |
| | Powder Dusting | Item 3 was processed with magnetic fluorescent powder and examined under laser light using an orange filter. No friction ridge detail was found. |
| | Cyanoacrylate Fuming | A new sterile fingerprint brush was used to carefully remove all of the visible fluorescent powder from item 3. Item 3 was then placed into the controlled Mystaire Cyanoacrylate fuming chamber for 20 minutes at 70% humidity level. No friction ridge detail was found. on item 3. |
| | Dye Stain | Item 3 was then sprayed with Rhodamine 6G methanol solution and rinsed with methanol. Item 3 was then examined using a laser light with orange filter. No friction ridge detail was developed on item 3. |
| YNZ3B3 | Cyanoacrylate Fuming | 12 min |
| | Powder Dusting | fluorescent fingerprint powder with ALS visual examination |
| | Ninhydrin | 3 min @ 80 degrees C, 65 % relative humidity |
| YQT3HE | Visual Examination | 2. Alternate Light source white 3.Cyanoacrylate ref. A-2626 4. Alternate Light source white and violet 5. Powder Dusting Green 6. Ultraviolet light. 7. Powder Magnetic Black A-2412 black 40 minutes processing time. |
| YTCBC8 | DFO | DFO Staining image under laser |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| YUNYYT | 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). No Marks Found. |
| | Cyanoacrylate Fuming | Processing Time: 45 mins, which includes Humidifying, Fuming and Purging. After 45 mins, Mark search was done using White Light. No mark found. |
| | Powder Dusting | Item was dusted by using Yellow Florescent Powder. No mark found |
| | 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 marks found. |
| | Powder Dusting | Dusted with Metallic Powder. No Marks |
| YWGMMF | Visual Examination | Crime - lite MLD and ALS. No mark. |
| | Powder Dusting | Magnetic powder with black lifter. No mark. |
| YY6YN7 | Cyanoacrylate Fuming | The sample was fumed with cyanoacrylate for 15min. |
| | Dye Stain | After fuming, the sample was dyed with Basic Yellow 40. |
| Z28CLX | Visual Examination | with white light |
| | Cyanoacrylate Fuming | fuming for 30 minutes then purge for 30 minutes then viewed under white light |
| | Powder Dusting | powder with white light |
| | FSIS | with UV light |
| | 1,2-Indanedione | HFE with laser light |
| | Ninhydrin | with white light |
| | Dye Stain | R6G with laser light |
| | Powder Dusting | powder with white light |
| Z9RFT2 | Cyanoacrylate Fuming | Fumed at 80% relative Humidity for 14 minutes |
| | DFO | Heated in 100°C oven for 20 minutes. |
| | Ninhydrin | |
| ZGB6XZ | Cyanoacrylate Fuming | |
| | Lumicyano Fuming | |
| | Ninhydrin | |
| | Powder Dusting | |
| ZGVRKN | Visual Examination | |
| | Cyanoacrylate Fuming | fumed 8 minutes |
| | Powder Dusting | magnetic |
| | Powder Dusting | black |

TABLE 2 - Item 3

| WebCode | Development Methods | Method Details |
|---------|------------------------|---|
| ZJ29Q7 | Cyanoacrylate Fuming | A control test and item were processed simultaneously at the same conditions, for 20 minutes in a cyanoacrylate fuming chamber. |
| | Visual Examination | The items were visually examined. |
| ZKXJMA | LPPM R7 | |
| | Cyanoacrylate Fuming | CA fumed for 45 min; 20 min curing |
| | Dye Stain | Dye stained with R6G |
| | Alternate Light Source | Viewed using UV light/RUVIS. Test print was positive. |
| ZLFFNA | Visual Examination | |
| | Powder Dusting | black powder, mag powder, fluorescent powder |
| | Cyanoacrylate Fuming | rhoadamine dye stain |
| ZXMAUT | Visual Examination | No visible detail |
| | Cyanoacrylate Fuming | MVC5000 No visible detail |
| | Powder Dusting | Black Mag Powder No visible detail |
| | Alternate Light Source | TracER Laser inherent luminescence present |

Item 3 - Development Response Summary

Participants: 244

Methods Utilized

| | | | |
|------------------------|-----|-----------------------|-----|
| Alternate Light Source | 121 | Physical Developer | 19 |
| Cyanoacrylate Fuming | 201 | Powder Dusting | 179 |
| DFO | 25 | Visual Examination | 205 |
| Dye Stain | 86 | Wet Powder Suspension | 1 |
| Ninhydrin | 50 | 1,2-Indanedione | 37 |

****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 |
|---------|----------------------|---|
| 27AWUM | None | |
| 2F243T | Photography | 11/14- overall, midrange, 1:1 close up Nikon 7500 |
| 2J6WZX | Photography | Scaled photographs taken before and after processing. |
| 2JZKC2 | Photography | |
| 2KE2F8 | Photography | 11/07/2022 - Close range photograph was taken to preserve the development observed as a result of the DFO treatment. An ALS set to 475nm and an orange barrier filter were used to facilitate preservation. |
| 2M69WX | Photography | Latent prints would have been photographed 1:1. |
| 2PRQTP | Photography | Digital Imaging |
| 2U2Z6R | Scanning | |
| 2VWNMM | Photography | |
| 2YAG6F | Photography | Photographed 1:1 image of the developed latent print with a scale. |
| 34YEBH | Photography | Photographed using an ALS at 475nm with a 529nm filter. |
| 39C6NP | Photography | One (1) image was taken with the Nikon D610 camera and OG550 orange filter. |
| 3DRRAG | No Print Developed | No print developed throughout sequential processing of item. |
| 4KA74E | Photography | I used photography as a method of preservation of the fingerprint. |
| 4L3C47 | Photography | |
| 4PKCMR | Photography | |
| 4PYL9 | Photography | after ninhydrin - under white light |
| 4VKUMC | Photography | Photography: Nikon Camera D850 / Image quality: Tiff |
| 4WY6RW | Photography | DFO - CSS w/orange filter |
| 4ZK34T | Scanning | Labeled N1 and scanned |
| 4ZZ9L4 | Scanning | Item sprayed with fixative, then scanned for evidence storage. |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|---|
| 6FPZHP | Photography | At the photography station, I ensured the camera had the proper settings (set to jpeg & raw format, ISO at 200, Fstop f/8 or higher, camera leveled above evidence at 90 degrees) took a series of overall photographs of the newsprints paper to document insufficient/no ridge detail using white light |
| 6GJNZK | Photography | |
| 6UAFKN | Photography | Filter- green with white light (365nm). Photographed using the DCS4 system. Print Developed L03- item 1 newsprint paper, section C (Green Filter) |
| | Photography | white light (365nm). Photographed using the DCS4 system. Print Developed L04- Duplicate of L03, item 1 newsprint paper, section C (No Filter) |
| 6YF49X | [No Methods Reported.] | No mark recovered |
| 7648GR | Photography | Photography with macro lens and metric witness, it was later protectet with adhesive tape. |
| 77GJR4 | Photography | *Please note that gloves were worn at all times throughout this processing. Overall and close-up digital photographs were taken with and without a scale of the front of item 1 at a 90 degree angle, utilizing a camera copy stand. A macro lens was used and the images were taken with RAW formatting. All photographs were uploaded as evidence into a digital evidence tracking system. The scaled close-up photograph of the ridge detail in quadrant "C" was then opened in Adobe Photoshop. The image was enhanced and calibrated to a 1:1 ratio. All image history is documented in the evidence tracking system and the original image remains unaltered and preserved. |
| 7BRJ2N | Scanning | The fingerprint was scanned using Epson scanner and printed for comparison |
| 7C6BRK | Photography | I used the photographic functions of the FSIS to capture the latent ridge detail in Quadrant "C". I printed out a scaled photograph of the latent for analysis. |
| 7KTBYG | None | |
| 7NFU6L | Photography | |
| 7UPY88 | [No Methods Reported.] | N/A |
| 7W882Z | Photography | Photographed with Nion Camera |
| 7ZWFMM | Photography | Digital images were taken of developed friction ridge detail. Filters used on camera were appropriate. |
| | Scanning | Item was scanned the day of development as well as the next day. |
| 82D9W3 | Photography | photografic fixing were made with a canon EOS 5 Rebel T6i camera, General, Medium closeup and closeup |
| 8CH9DG | None | |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| 8ETYVX | Scanning | Would either collect scans of the item with the print or collect photographs of the item with the print—would collect scans or photographs both without and with a scale included |
| 8JEBD8 | Photography | DFO-LASER 2 photos, NIN-LASER 3 photos |
| 8TMFTH | 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. |
| 8WMV8L | Photography | used a digital camera to capture the image of the latent print and adobe photoshop to visually see details in the latent print |
| | Scanning | scanned Ninhydrin print to capture the image of the latent print and adobe photoshop to visually see details in the latent print |
| 8ZM72Z | Photography | digital photographs with and without scale |
| 8ZQN46 | Photography | Examination Quality photographs taken after 1,2-Indanedione step of impression in section C, marked with a scale and marked B. |
| 9JDLWG | Photography | |
| 9KRXQF | None | |
| 9ZLMMC | Photography | Foster Freeman DCS - 5. |
| ABWJ3Y | Photography | |
| AHL3EF | Photography | One latent print was photographed after 1,2-Indanedione |
| AQBTX2 | Photography | Documented and photographed with metric scale, use a Nikon D7000. |
| AV99QH | None | No latent prints developed |
| B2M8MG | Photography | DCS5 |
| B3LHDH | Scanning | Labeled ridge detail N1 and scanned. |
| BEAG82 | Photography | I photographed the item prior to processing with a scale. I photographed the item after processing, 24 and 48 hours later, with a scale. I photograph any ridge detail that has been developed in a RAW format, with a scale. |
| BJ8ZAY | Photography | DCS5 Green filter used during examination of area. Ninhydrin enhancement settings used. Image printed in grayscale |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|---|
| BLX76H | Photography | overall |
| BX2UFY | Photography | Photographed using Foster and Freeman DCS5 photographic system at Indandione examination point - photographs available on request. Focal length 0.45, F8 |
| C2K2LD | Photography | se tomaron vistas fotogrficas del rastro papilar que se ubico en el cuadrante C, de la evidencia. [English translation of comments was not obtained by the time of report publication.] |
| C3FLLJ | Photography | Three photographs were taken, one of my generated control, and two of the developed print. |
| C3HBQG | Photography | All images were uploaded into the Authenticated Digital Asset Management System (ADAMS) and the laboratory's Information Management System (LIMS). |
| C7YNMX | Photography | The results were preserved by photography. |
| C8VXHZ | [No Methods Reported.] | N/A |
| C949CH | Scanning | 1200ppi Images enhanced with photoshop. |
| CDY6VH | Photography | 1:1 photography. Overall, midrange and close-up photos taken. |
| CHR4CY | Photography | The method of preservation that I used was the photography. |
| CQZTY6 | Photography | The latent print was photographed. Camera: Canon Power Shot SX20IS. |
| CUY4V6 | Scanning | Scanner Epson Perfection V700 photo. |
| CV2M7M | Photography | RD photographed with green laser (532nm/orange filter) after IND-ZnCl2. LP photographed with LED lighting after NIN (with and without green filter) |
| CVG46L | Photography | visible light |
| CY3TMD | Scanning | I scanned quadrant C of the off-white piece of paper at 1200 ppi with an Epson Expression 10000XL and placed the electronically captured images onto a composite sheet. Enhancement techniques were used in Photoshop (CS4) due to how faint the ridge detail was. I used the techniques: Black and White, Shadows and Highlights, Grayscale, and finished with Levels. |
| D9FE6D | Photography | White light for Ninhydrin |
| DRCRUE | N/A | N/A |
| EAC3AU | Photography | Photographed the developed friction ridge detail post-DFO application and ALS examination at 475nm of light with a Nikon D810, 60mm fixed focal length lens. |
| EAWQMH | Scanning | |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| ECUDR7 | None | |
| ER64P6 | Photography | Since the camera can not be equipped with a bandpass filter, the print is not visible in the picture. |
| EV9LFL | Photography | Digital capturing/processing |
| EW7WBP | Photography | Documentary, overall, mid-range and close up 1:1 photos were taken. Photos were saved in JPEG and NEF format and burned to a DVD. |
| FEHXM3 | Photography | Documentation with Photograph. |
| FJDRMP | Photography | The results were preserved by photography. |
| FPZJQC | Photography | the latent prints recovered are photographed using a DCS4 imaging device (white light, 495 nm filter) a paper copy is sent to information branch for comparison on the data base, and the soft copy of latent prints recovered are kept on the hard disk. |
| FRNCLE | Visual Examination | None. On 11/21/22, I visually examined Item 1 and no visible print was located. On 11/28/22, I conducted an additional visual examination of Item 1 and no visible print/ridge detail was located |
| FT2LWZ | Photography | The piece of evidence is photo documented before the process begins and after the fingerprint development process is finished. |
| FY8D8J | Scanning | Resolution: 1200 dpi |
| G32X4E | Photography | Foster Freeman DCS 4 Nikon D700 White Light Green Filter L01, Item 1, newsprint paper, section C |
| GA332P | Photography | Took a photo of the friction ridge detail developed on the section "C" on the gray colored paper. The photo was captured using the DCS5 system. |
| GEFTLY | Photography | Was used as preservation method since it did not develop detail ridges and was the only alternative to have the evidence on record. |
| GKHWDH | NA | No prints sufficient for further review found. |
| GNMMHD | Photography | |
| GPKYR | Photography | Nikon 850 |
| GUTYYJ | NA | |
| HBRRNP | Photography | Obtained with DCS5 |
| HFFG6T | Photography | Crime-lite 8x4, blue-green light (470-533 nm), OG570 DCS5 |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|--|
| HHCVN6 | Photography | The latent print developed was photographed following Ninhydrin development under halogen lights using a Nikon D800 |
| HVW8C9 | Photography | |
| J22CTK | Photography | |
| J6UPYG | Photography | |
| J92T36 | Photography | The developed print was photographed during both stages of processing. |
| J9G6RW | Photography | We used Foster&Freeman Green light and red filter in a camera when we photographed the fingerprint from the sample, section C. |
| JDTCT2 | None | |
| JDV4J | Photography | Nikon D800 DSLR camera, 60 mm lens |
| JJ3JJ7 | Scanning | An Epson V800 scanner was utilized at 1200dpi to capture the latent fingerprint of value, L-01. The image was opened in Adobe Photoshop and saved to a photographic reproduction sheet as an original and processed image. |
| JKXUQ3 | Photography | Photographed the developed latent print using Foster Freeman DCS 5 |
| JL69VM | Photography | |
| JLN22Q | N/A | No latent ridge detail recovered |
| JRUQAY | Scanning | The item was scanned and the scans were sent to a latent print examiner for analysis. |
| JTR49C | Photography | |
| JW8F6T | Photography | The sample was photograph for preservation purposes. |
| JW8HN7 | Photography | Photography after Ninhydrin |
| JYRL8W | Photography | Photographed with LASER and orange filter. |
| K22RLB | Photography | |
| K2WDXP | Photography | Light of 505 nm and in combination with an orange filter |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|--|
| K3BYHC | Scanning | Scanned an overall view of the paper and a close up of the ridge detail (photo lift #2) after the 72 hour curing time. The ridge detail was purple and observed in quadrant C. Steam was applied and the ridge detail (photo lift #2) was scanned again. |
| | Photography | The ridge detail (photo lift #2) was also photographed after the scanning and steaming process. Some photos were taken with the alternate light source. Some photos taken with an orange barrier filter and others taken with a red barrier filter. |
| K7B64A | Photography | Photograph of latent print at DFO |
| KAU4DX | [No Methods Reported.] | N/A |
| KHLR29 | [No Methods Reported.] | NA |
| KHP6TB | Photography | Photographed developed ridge detail using the DCS-5 using regular white light. Took one close-up photo and one overall photo. |
| KJEFQV | Scanning | When ridge detail is observed we scan the ride detail area |
| KMGDXH | Photography | 12/6/2022: Documentary photographs of item and very faint fingermark in section C prior to 3rd round of Ninhydrin Special Formula. 12/7/2022: Documentary photograph of item after 4th round of ninhydrin. 12/7/2022: Documentary photographs of item and section C after VMD (gold/zinc/silver). 12/9/2022: Documentary photographs of item, section C, and positive QC after VMD (additional layer of zinc). No ridge detail observed. If ridge detail was observed, 1:1 photographs would have been captured of ridge detail. |
| LBKPLF | Photography | Photo taken of latent print in section C |
| LCTWUA | Photography | photographed utilizing comparative photography |
| LGZGH7 | Photography | Once the fragment has been revealed, the photographic fixation of the fragment is carried out, since the reagent cannot be lifted due to the type of surface, it is protected with an acetate to maintain the fragment's preservation. |
| LH32WV | Photography | Photographed |
| LP48F4 | [No Methods Reported.] | Due to chemical issue the paper was damaged. |
| LTY4Y4 | Photography | |
| LUNPE8 | Photography | Canon 5D + 90 macro-lens 1:1 and white light. Finally photoshop. |
| MC9KJ8 | Photography | NIKON D800 + Lens 105 mm |
| MDEZZL | Photography | After DFO/caron chamber after NIN/caron chamber |
| MJQU84 | Photography | |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|--------------------------------|---|
| MK2PVG | Submitted to Latent Print Unit | Submitted the paper to Latent Print Unit for analysis. |
| MK6B9P | Photography | Laser at 532nm with orange barrier filter. |
| MMPC3B | Photography | During step 5), orange filter is fixed on the camera when the trace in "C" box is illuminated with the Crimescope in CSS. We place a centimeter test being near the fingerprint and photographs are taken. |
| | Photography | During step 8), no filter is fixed on the camera when the trace in "C" box is illuminated with the Crimescope in white light. Photographies are realised of the fingerprint with the centimeter test. |
| MQNJQU | Photography | Photography was used as a preservation method since it did not develop detail ridges and was the only alternative to have the evidence on record. |
| MTFDUP | Photography | Aperture priority; white balance @ fluorescent |
| MWZENC | Photography | Canon 850 |
| N7D3UU | Photography | One photograph of a developed latent print on processed item no. 1 after 1,2-Indanedione, box C, using 445 nm ALS and an orange filter. |
| N9MW2F | Photography | 1,2-Indandione photography: Excitation light: 530nm, Observation filter: orange |
| NDFA9X | None | |
| NPC3DF | Scanning | Scanning performed two times with the Epson Expression 11000XL at 1200 dpi. First time, to capture FRD after second ninhydrin application. Second time, to capture FRD with background noise after third ninhydrin application. |
| NQAD9J | [No Methods Reported.] | N/A |
| NQMZB6 | Photography | |
| NVHXQN | Photography | |
| NWMGLB | [No Methods Reported.] | No photo as only fragments were observed |
| NYRC3T | [No Methods Reported.] | N/A |
| P94RLE | [No Methods Reported.] | No Prints developed on paper. |
| PAFAYT | Photography | Photography was used as a preservation method since it did not develop detail ridges and was the only alternative to have the evidence on record. |
| PKE4U3 | Photography | |
| PXHKTR | Photography | |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|---|
| Q8KAXY | Photography | |
| QQWR96 | Photography | Using the Digital Capturing System, I took one close-up and one overall photograph of the ridge detail using a scale. |
| QR8NLW | None | |
| QVMB48 | Photography | |
| QYRRTY | None | |
| QZ73YJ | [No Methods Reported.] | N/A |
| QZLKEA | Digital Photography | |
| RAAUKH | Photography | Digital photography with orange barrier filter. The image was further processed through Adobe Photoshop CC (image was calibrated and processed for best detail; created composite, saved impression as L1 on a CD upon completion of the case |
| RN2PLN | Photography | LASER/Orange Filter |
| RQAWQ2 | Photography | |
| RYGJXG | Photography | |
| T8B6KU | None | |
| T9RA8Y | Photography | |
| TEUDYH | [No Methods Reported.] | N/A |
| TFZYDH | Photography | After 1,2-Indanedione Light Source: 470 nm / Camera Filter: OG530 (Yellow/Orange) |
| TJPYX8 | Photography | Polilight wave length= 505 nm & emission filter Red 23A (Tiffen) |
| TPVTUN | Photography | We used Crime-Lite 82S Green light and we had red filter in camera. Fingerprint was in square C. In camera we had red filters on. |
| TURD6Z | [No Methods Reported.] | None used since the only RD developed was not suitable for documentation |
| UAYXXN | Photography | Photographed latent using ALS at 475 nm with orange filter. |
| ULPQ3Q | Photography | 1. Photos of evidence prior to analysis. 2. Photos of evidence in original state received. 3. Photos after each process where visible friction ridge detail was noted (with and without scale) |
| UNC7V8 | Photography | |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|-------------------------|--|
| UPU4FJ | Photography | A photograph was taken of the sample before the piece of evidence was treated, the piece of evidence treated with the reagent was kept in a fume extractor for up to 24 hours. Photographs were taken after each piece of evidence was treated, whether it developed a fingerprint or not. |
| UW8BP9 | Photography | fingerprint was photographed with a macro camera lens and linear scale (white light) |
| V9EHYD | Photography | Firstly, the overall photograph was taken with the NIKON D850 camera and then the macro photograph was taken with the macro lens. The photo is saved in "JPG" and "TIFF" format. |
| VF2FV2 | Photography Scanning | Indanedione, CrimeScope, 515nm, double stacked orange filter Ninhydrin, Epson scanner, 1000 dpi |
| VF34A7 | Photography CD-R | Digital photos - Canon EOS 60D, 100 mm lens, scale ruler. Recording digital photos of latent print to CD-R. |
| VVU2AF | Photography | after Ninhydrin - under white light |
| WLNFE | Scanning | Epson scanner utilized. |
| WMELC6 | Photography | Viewed with a 530nm/green forensic laser and digitally captured in section C. |
| WPJC6D | [No Methods Reported.] | No lifting was made. |
| WT9H3G | Photography | |
| WV9TQ4 | Photography | photograph and upload into ADAMS, enhancement with photoshop |
| X38TPW | Photography | raw images using fx camera |
| X4LZBD | [No Methods Reported.] | No print developed |
| X82ERT | Photography | Canon 850 |
| X8KB7D | [No Methods Reported.] | N/A |
| XEVXJL | Photography | |
| XFRC7E | [No Methods Reported.] | No prints have been developed. |
| XG9AVX | Photography | Using the digital capturing system 5, I took a closeup photograph (TIFF image) using a scale and an overall photograph of the ridge detail that developed. |
| XMBJY6 | Photography | |
| XWEMXM | None | |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|-------------------------|--|
| Y28ZKW | Photography | DCS-4 system White light Green Filter |
| Y7MM39 | Photography Scanning | Made photocopies of the front and back of the evidence before and after processing |
| YBC4BT | Photography | side lighting |
| YF7226 | Photography | |
| YKDNJM | Photography | |
| YLCQLX | Photography | Photographs were taken on a copy stand camera during all steps of processing of item 1. |
| YNZ3B3 | Scanning | Scanned @1000 ppi |
| YQT3HE | Photography | |
| YTCBC8 | Photography | Nikon D810 camera with bright beam laser illumination |
| YUNYYT | Photography | Mark found on section C after 1,2-Indanedione. Photographed using 532nm light (green light) and camera filter 550nm. |
| YWGMMF | Photography | Photography. |
| YY6YN7 | Photography | digital capture |
| Z28CLX | None | |
| ZGB6XZ | Photography | |
| ZGVRKN | Photography | |
| ZJ29Q7 | Photography | The method used to preserve the evidence/prints is photography. Camera: Nikon D850 Image quality: TIFF |
| ZKXJMA | LPPM R7 | Visual of developed print captured/preserved via photograph, single lens flex camera. Digitally captured in NEF. |
| ZLFFNA | Photography | Item photographed in color and grey scale and print out 1 to 1 photo with scale in photo |
| ZXMAUT | Photography | |

TABLE 3 - Item 1

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|----------------|
|---------|----------------------|----------------|

| | | |
|---|--|-------------------|
| Item 1 - Preservation Response Summary | | Participants: 206 |
| Methods Utilized | | |

| | |
|-------------|-----|
| Lifting | 0 |
| Photography | 153 |
| Scanning | 22 |

****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 |
|---------|----------------------|--|
| 27AWUM | None | |
| 2F243T | Photography | 11/2- overall, midrange, 1:1 closeup Nikon 7500 |
| 2J6WZX | Photography | Scaled photographs taken before and after processing. Impression preserved in place by covering with lift tape. |
| 2JZKC2 | Photography | |
| 2KE2F8 | Photography | 11/07/2022 - Close range photograph was taken to preserve the development observed as a result of the Rhodamine 6G treatment. An ALS set to 495nm and an orange barrier filter were used to facilitate preservation. |
| 2M69WX | Lifting | Apply lifting tape over the developed latent print that is then placed onto a lift card. |
| 2PRQTP | Photography | Digital Imaging |
| 2U2Z6R | Lifting | |
| 2VNNMM | Photography | |
| 2YAG6F | Photography | Photographed 1:1 photograph of the latent print on square B of the plastic switch plate with a scale after Adrox development |
| | Lifting | Utilized 2' finger print tape to lift the latent in square B developed with superglue fuming and magnetic powder; placed on a latent lift card. |
| 34YEBH | Photography | Photographed using an ALS at 475nm with a 529nm filter. |
| 39C6NP | Photography | Two (2) images were taken with the Nikon D610 on 11/15/22. |
| | Photography | One (1) image was taken with the Nikon D610 camera on 11/15/22. |
| | Photography | One (1) image was taken with the Nikon D610 camera on 11/15/22. |
| | Photography | One (1) image was taken with the Nikon D610 camera and OG550 orange filter. |
| 3DRRAG | Photography | Enhanced with ALS for post-RAM photo. |
| 4KA74E | Photography | I used photography as a method of preservation of the fingerprint. |
| | Lifting | Then I used a lifting sheet to lift the fingerprint as a method of preservation. |
| 4L3C47 | Photography | |
| 4PKCMR | Photography | |
| 4PYYL9 | Photography | after cyanoacrylate evaporation - under white light after wet powder black - under white light |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|--|
| 4VKUMC | Photography | The method used to preserve the evidence/prints is photography. Equipment used: Camera Nikon D850 with and TIFF as the image quality and Full Spectrum Imaging System Arrowhead (FSIS II) Wavelength UV light: 365 nm with filter 365nm UV. |
| 4WY6RW | Photography | Visual print; CA print; Ardox (365nm) |
| 4ZK34T | Lifting | Tape lift place on lift card |
| 4ZZ9L4 | Lifting | Latent was lifted with tape for preservation. |
| 68C2XL | Photography | After the friction ridges in quadrant B have been revealed, photographs are taken with a metric control, continuing to be lifted with Sirchie brand translucent tape, placed on a backing card for Sirchie brand raised impressions, being packed with a transplant card in a plastic bag , label and chain of custody record. |
| 6FPZHP | Photography | At the photography station, I ensured the camera had the proper settings (set to jpeg & raw format, ISO at 200, Fstop f/8 or higher, camera leveled above evidence at 90 degrees) took a series of overall, midrandge, close up photographs to document ridge detail in section B using the laser and white light |
| 6GJNZK | Photography | |
| 6GPULN | Photography Lifting | |
| 6UAFKN | Photography Lifting | Filter- Yellow z(476 nm) with Blue Fluorescent light source 420-470 nm (specifically labeled 445 nm). Photographed using the DCS4 system. Print Developed L01- exterior of item 2, plastic switch plate Section B 2 inch clear tape on a white card. Print developed with magnetic powder. L02-exterior of item 2, plastic switch plate Section B (Duplicate of L01) |
| 6WRNJN | Photography | Utilized a scale label to include event information and processes utilized. Completed digital imaging of detail with camera at 90 degrees on a digital workstation with a life size converter lens, RAW format, ISO 100, F16. The image after CA fuming was taken with regular light while the image taken with R6G was taken with a camera filter and the ALS on. Lighting was metered off of the light meter on the digital camera for both to select shutter speed. |
| 6YF49X | Photography | Raw, unedited image taken, followed by an edited TIFF image |
| 7648GR | Lifting | First, photography with macro lens and metric witness, later lifted with adhesive lifter. |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|--|
| 77GJR4 | Lifting | *Please note that gloves were worn at all times throughout this processing. Clear tape was placed across the area of observed ridge detail and lifted from the item. The tape lift was then placed onto a white backing card for contrast and preservation. A directionality arrow was drawn onto the front of the card for orientation. All case information was added to the back of the card. The latent lift card was then placed into an evidence envelope and sealed with evidence tape. |
| 7ALAWX | Lifting | Latent print lifted using standard 2" latent lift tape and placed on latent lift card ([Agency] Form #74). |
| 7BRJ2N | Lifting | The fingerprint was lifted using fingerprint lifter |
| 7C6BRK | Photography | I captured the latent print found in Quadrant "B" using the photographic capability of the FSIS (254 nm). I then printed out a scaled photograph of the latent for analysis. |
| | Lifting | I tape lifted the latent ridge detail and placed it onto a white latent print card. This card was prepared for analysis. |
| 7KTBYG | None | |
| 7NFU6L | Photography | |
| 7UPY88 | Lifting | That one, was transferred to a plastic patch for preservation and subsequent analysis in the Forensic Laboratory (Latent Fingerprints). |
| 7W882Z | Photography | Photographed with Nikon camera |
| 7ZWFMM | Photography | Digital photography taken of control and friction ridge detail on item after fuming and after RAY processing. Filter used on camera were appropriate. |
| 82D9W3 | Lifting | transplant tape is placed, later on the indicator, photografic fixations are made on the tape is carefully lifted, later on it is placed on a white card where the lifting data are written |
| 8CH9DG | None | |
| 8ETYVX | Lifting | Used fingerprint tape to lift print and place on a fingerprint card |
| 8JEBD8 | Photography | VIS-RUVIS 1 photo, LUMI-LASER 1 photo, LUMI-RUVIS 1 photo |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| 8TMFTH | 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. |
| | Lifting | Once all treatments had been completed, a white gel lift was taken on the side of the mark and exhibited. Item 2 was Gel Lifted as per current SOP; to see if any suitable marks would develop after being scanned by the Photography Department. |
| 8WMV8L | Photography | used a digital camera to capture the image of the latent print and adobe photoshop to visually see details in the latent print |
| 8ZM72Z | Photography | Digital photography with and without scale |
| | Lifting | LPC collected |
| 8ZQN46 | Photography | Examination Quality photograph of the impression was taken using oblique lighting techniques, with a scale (Impression marked A). |
| | Lifting | Sirchie lifting tape was used on the impression for preservation. The tape was marked with orientation, initials, as well as A (same as previous). |
| 9JDLWG | Photography | |
| 9KRXQF | None | |
| 9MCZHK | Lifting | the fingerprint was recovered using lifter from B section |
| 9ZLMMC | Photography | 40 minutes - Foster Freeman DCS - 5 |
| ABWJ3Y | Photography | |
| AHL3EF | Photography | One latent print was photographed after visual examination. The same print was seen after Cyanoacrylate fuming but was not photographed. The same print was photographed after BY40. |
| AQBTX2 | Photography | After developing the latent print with magnetic powder, it was documented and photographed with metric scale, use a Nikon D7000. |
| | Lifting | Use a white plastic patch. |
| AV99QH | Photography | Nikon |
| B2M8MG | Photography | DCS5 |
| B3LHDH | Lifting | Tape lift placed on lift card. |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| B4F7VD | Photography | Latent print 2.01 digitally preserved using RUVIS. |
| | Photography | 2.01 rephotographed using the TracER Laser and a digital camera. |
| BEAG82 | Photography | The item was photographed with a scale: Prior to processing. Potential ridge detail was photographed: After fuming. After dusting |
| | Lifting | Lifting the latent was the last step in the process. It was done using standard 2" clear lifting tape and placed on a latent lift card. The necessary latent lift card information was then filled out. |
| | Photography | Per our Lab Policy, latent lift cards have to be photographed and attached to the case file whether or not they are of value. I photographed the latent print on the latent lift card. |
| BFAKUP | Photography | digital photo then scan to disk and case file |
| BJ8ZAY | Lifting | Tape lift on to a latent print card |
| BLX76H | Photography | overall and latent print A01 in Quad. B |
| BX2UFY | Photography | Final best mark photographed using Foster and Freeman DCS5 system at BY40 photography. Photographs available on request. Focal length 0.45, F8. |
| C2K2LD | Photography | se tomaron vistas fotogrficas del rastro papilar que se ubico en el cuadrante B, de la evidencia. [English translation of comments was not obtained by the time of report publication.] |
| C3FLLJ | Lifting | One latent lift card was generated. |
| C3HBQG | Photography | All images were uploaded into the Authenticated Digital Asset Management System (ADAMS) and the laboratory's Information Management System (LIMS). |
| | Lifting | One tape-lift was obtained from quadrant "B" of Item 2 and placed on a tape-lift card labeled "L1". The tape-lift card labeled "L1" was photocopied onto a sheet and added to notes. |
| C7YNMX | Photography | The results were preserved by photography. |
| | Lifting | It was lifted using a patch of white palstic. |
| C8VXHZ | Lifting | The fingerprint was transferred to a plastic patch for preservation and subsequent analysis in the laboratory. |
| C949CH | FSIS photography | The image of the latent print developed with CA was taken with FSIS camera. |
| | Photography | The images of the latent print taken after Mstar and Powder were taken with a Nikon DSLR camera and enhanced using photoshop. |
| CDY6VH | Photography | 1:1 photography. Overall, midrange and close-up photos taken. |
| CHR4CY | Photography | First method of preservation that I used was photography. |
| | Lifting | Then I used an lifting sheet to preserve the fingerprint. |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|--|
| CL7XXX | Lifting Photography | Gellifiter black |
| CQZTY6 | Photography | The latent print was photographed. Camera: Canon Power Shot SX20IS. |
| CRVFC9 | Photography | |
| CUY4V6 | Scanning | Scanner Epson Perfection V-700 photo. |
| CV2M7M | Photography | LP photographed with fiber optic lighting after CAE. LP photographed with green laser (532nm/orange filter) after R6G dye stain |
| CVG46L | Photography | W/FSIS under UV light W/ laser at 532 nm w/orange filter |
| CY3TMD | Photography | I used a Nikon D800, Lens 60mm, ISO 400 camera in manual mode with F-stop 29 and varying shutter speeds of 10/250 a second and 10/200 a second. I then calibrated my photographs, enhanced them in Photoshop (CS4), saved them, and created a composite sheet that was printed out. A clear ruler was placed in my photographs to bring them to scale (1:1). Enhancement techniques were used in Photoshop (CS4) and they were: Grayscale, Shadows and Highlights, and Levels. |
| | Lifting | I lifted the latent fingerprint of value and placed the lift onto a white latent lift card. |
| | Scanning | I scanned the latent lift at 1200 ppi with an Epson Expression 10000XL scanner and placed the electronically captured images onto a composite sheet. Enhancement techniques were used in Photoshop (CS4) and they were: Grayscale, Shadows and Highlights, and Levels. |
| D9FE6D | Photography | White light |
| DRCRUE | Photography | Camara |
| | Lifting | Lifting the tape and then supporting it on the paper |
| E4MP4Z | Lifting | Applied tape over sections B and D. removed the tape and placed it onto a lifting card. |
| EAC3AU | Photography | Photographed the developed friction ridge detail post-mag powder application under white light with a Nikon D810, 60mm fixed focal length lens. |
| | Lifting | Lifted the developed friction ridge detail after it was photographed post-mag powder application. |
| | Photography | Photographed the developed friction ridge detail post-Rhodamine 6G application and ALS examination at 495nm of light with a Nikon D810, 60mm fixed focal length lens. |
| EAWQMH | Photography | |
| ECUDR7 | None | |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|--|
| ER64P6 | Photography | |
| EV9LFL | Photography | Digital capturing/processing |
| EW7WBP | Photography | Overall, mid-range and close up 1:1 photos were taken, saved in JPEG and NEF format and burned to a DVD. |
| FD2ZZ6 | Photography | |
| FEHXM3 | Photography Lifting | Documentation with Photograph with metric scale. Stick a plastic patch over the fingerprint firmly, and then lift it up. The information of number of exam, date, hour and the letter was develop in the back of plastic patch. |
| FJDRMP | Photography Lifting | the fingerprint impression was preserved by photography. the fingerprint was lifted using a white plastic patch. |
| FPZJQC | Photography | the latent prints recovered are photographed using a DCS4 imaging device (blue light, yellow filter 530 nm) a paper copy is sent to information branch for comparison on the data base, and the soft copy of latent prints recovered are kept on the hard disk. |
| FQWBLH | Photography | |
| FRNCLE | Lifting | A visible latent print was recovered with tape from Item A-2. from Segment/Quadrant B |
| FT2LWZ | Photography Lifting | The piece of evidence is photo documented before the process begins and after the fingerprint development process is finished. The fingerprint hinge lifter is identified with the information corresponding to the case and the fingerprint fragment is lifted for future analysis |
| FY8D8J | Photography | |
| G32X4E | Lifting Lifting | Clear Tape on White Card L02, Item 2, plastic switch plate, section B Clear Tape on White Card L03, Item 2, duplicate of L02 |
| GA332P | Photography | Took a photo of the friction ridge detail developed on section "B" on the DCS5 system. |
| GEFTLY | Photography Lifting | Piece of evidence was photo-documented with the developed fingerprint fragment for later preservation. With a hinge lifter, already identified with the case information, the fingerprint fragment is lifted for its corresponding analysis. |
| GKHWDH | Photography | Before staining - white light, after staining Blue laser with 515 nm filter used to photograph. |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|--|
| GNMMHD | Photography | |
| GPKYR | Photography | Nikon 850 |
| GUTYYJ | FSIS | Blue-Laser |
| HBRRNP | Photography | Viewed and obtained with forensic laser blue light |
| HFFG6T | Photography | White light DCS5 |
| HHCVN6 | Photography | The latent print was photographed following cyanoacrylate fuming under white oblique lighting and following Rhodamine 6G dye staining under the TracER laser with an orange barrier filter. The photos were taken with a Nikon D800. |
| HVW8C9 | Photography | |
| HXMJUE | Photography | Area 2.01 from quadrant B of switch plate was photographed. |
| J22CTK | Photography | |
| J6UPYG | Photography | |
| J6YXCA | Lifting | |
| J92T36 | Photography | The print observed with Rhodamine and the FLS was captured with digital photography. |
| | Lifting | The latent lift was retained utilizing clear tape and a white latent lift card. |
| J9G6RW | Photography | We photographed the fingerprint directly from the sample, section B. |
| JDTCT2 | None | |
| JDV4J | Photography | Nikon D800 DSLR Camera, 60 mm lens |
| JJ3JJ7 | Scanning | An Epson V800 scanner was utilized at 1200dpi to capture the latent fingerprint of value, L-02. The image was opened in Adobe Photoshop and saved to a photographic reproduction sheet as an original and processed image. |
| JXUQ3 | Photography | Photographed the developed latent print using Foster Freeman DCS 5 |
| JL69VM | Photography | |
| JLN22Q | Lifting | The latent print was photographed and then preserved using a hinged print lifter. |
| JNFXR7 | Photography | I photographed the ridge detail using a FLS set at 450nm and a camera with an orange filter. |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| JRUQAY | Lifting | One latent lift card was collected from the plastic switch plate and the latent lift card was submitted to a latent print examiner for analysis. |
| JTR49C | Lifting | |
| JW8F6T | Photography | The developed print is photograph with a ruler to be preserved. |
| | Lifting | The latent print was protected using a transparent plastic patch, initiating with the date and ware it was worked. |
| JW8HN7 | Photography | With first FSIS |
| JYRL8W | Photography | Photographed with white light. |
| K22RLB | Photography | |
| K2WDXP | Photography | |
| K3BYHC | Photography | The ridge detail (photo lift #1) on the switch plate was photographed. The first photo of the ridge detail (photo lift #1) was taken before chemical processing and was done using axial illumination. The second photo of the ridge detail (photo lift #1) was taken after the application of magnetic powder. |
| K7B64A | Photography | Total of five photographs taken of latent print area. |
| KAU4DX | Lifting | The fingerprint was transferred to a plastic path to preservation and subsequent analysis in the laboratory |
| KDUF9X | Lifting | The fingerprinte was transferred to a plastic patch for preservation and subsequent analusis in the laboratory. |
| KHLR29 | Lifting | The developed latent print in section B was lifted using a clear lifting tape and placed on a white latent print card. |
| KHP6TB | Lifting | Used clear tape to lift developed ridge detail from the item and placed the tape onto a white lift card. |
| KJEFQV | Lifting | Lifted ridge detail from Area B |
| KMGDXH | Photography | 12/1/2022: photographs (1:1; midrange and close-ups) of ridge detail in section B with laser light source (green beam/532nm). Overall photograph of item with ambient light. |
| L8JLTT | Photography | DCS 5 |
| LBKPLF | Photography | photo taken of latent print in section B |
| LCRZGJ | Lifting | Used Lifting tape to lift print and placed onto latent lift card. |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| LCTWUA | Photography | photographed utilizing comparative photography after CA fuming; photographed utilizing comparative photography, TRACER LASER, and appropriate lens filter after R6G |
| LGZGH7 | Lifting | Once the fragment was revealed, it was fixed by means of photographs and the lifting of the same was continued with tape, once completed that part is placed in an acetate to preserve it, it is identified with the nomenclature according to the item and the quadrant where was located. |
| LH32WV | Lifting | Lifted with tape, placed on backing card |
| LTY4Y4 | Photography | |
| LUNPE8 | Lifting | White silicon (casting-material for forensic use) |
| | Photography | Canon 5D + 90 macro-lens 1:1 and white+Crime-lite 82S. Finally photoshop. This was the best method for this fingerprint. |
| M2ALEG | Lifting | Lifting tape used to lift print and secured to lift card. |
| MC9KJ8 | Photography | NIKON D800 + Lens 105mm |
| MDEZZL | Photography | |
| MJQU84 | Photography | |
| MK2PVG | Lifting | Lifted with 2" tape and secured to latent lift card. |
| MK6B9P | Photography | Visual light photography and with a laser at 532nm with an orange barrier filter. |
| MMPC3B | Photography | During step 5), orange filter is fixed on the camera when the trace in the box "B" is illuminated with the Crimescope in white light without filter and in CSS with an orange filter, by searching the best contrast. Photographies are realised of the fingerprint with the centimeter test. |
| MQNJQU | Photography | The piece of evidence was photo-documented with the developed fingerprint fragment for later preservation. |
| | Lifting | With a hinge lifter, already identified with the case information, the fingerprint fragment is lifted for its corresponding analysis. |
| MTFDUP | Photography | CAE photos: no filter. Laser photos: orange barrier filter. Aperture priority |
| MWZENC | Photography | Canon 850 |
| N7D3UU | Photography | One photograph of a visible latent print on item no. 2, box B, using white light. One photograph of a developed latent print on processed item no. 2, box B (same impression), using ALS 445nm after RAM and an orange filter. |
| N9MW2F | Photography | Photography using coaxial front illumination and white light. |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| NDFA9X | None | |
| NPC3DF | Photography | Captured with the Nikon D810 with orange filter and CSS wavelength. |
| NQAD9J | Lifting | The latent print was lifted using clear lift tape and placed on a white index card. |
| NQMZB6 | Photography | |
| NVHXQN | Photography | I photographed item before processing for documentation purposes. After the fingerprint develop i documented and preserved with photography and metric witness. |
| | Lifting | |
| NWMGLB | Photography | |
| NYRC3T | Lifting | Frosted lift tape and white latent card. |
| P94RLE | Lifting | Lifted print with tape and placed tape on [Laboratory] latent lift card. |
| PAFAYT | Photography | The piece of evidence was photo-documented with the developed fingerprint fragment for later preservation. |
| | Lifting | With a hinge lifter, already identified with the case information, the fingerprint fragment is lifted for its corresponding analysis. |
| PFJB28 | Photography | 3 Images taken after the application of black magnetic fingerprint powder. |
| PKE4U3 | Photography | |
| PUXH2L | Lifting | black powder |
| PXHKTR | Photography | - CAE: Reflected UV Light. Mag. Powder: White Light |
| | Lifting | |
| Q8KAXY | Photography | |
| QGXXEF | Lifting | Tape and lifted to a card. |
| QQWR96 | Lifting | I applied a piece of tape to the item where I observed ridge detail had developed and smoothed out any creases or air bubbles. I then lifted the piece of tape and adhered it to a lift card. Lastly, I filled out the case information on the reverse side of the lift card. |
| QR8NLW | None | |
| QVMB48 | Photography | |
| QYRRTY | None | |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|--|
| QZ73YJ | Lifting | The fingerprint was transferred to a plastic patch for preservation, to later analyze in the laboratory |
| QZLKEA | Digital Photography | |
| R6WWBB | Digital Capture | FSIS |
| RA788B | Lifting | latent lift tape was applied to the area developed. The tape was then lifted and applied to a latent lift card. |
| RAAUKH | Photography | Digital photography with orange barrier filter The image was further processed through Adobe Photoshop CC (image was calibrated and processed for best detail; created composite, saved impression as L2 on a CD upon completion of the case |
| RN2PLN | Photography | White Light |
| RQAWQ2 | Photography | |
| RYGJXG | Photography | Photography |
| T8B6KU | None | |
| T8UQDK | Photography | Developed latent print was photographed at 505 nm using Tiffen orange 21 filter. |
| T9RA8Y | Photography | |
| TBT8PE | Photography | Digital Photo Nikon 850 |
| TEUDYH | Lifting | That one, was transferred to a plastic patch for preservation and subsequent analysis in the Forensic Laboratory (latent Fingerprints) |
| TFZYDH | Photography | After visual examination: lightsource: White. After Lumicyano fuming: lightsource: Blue-Green / filter: Orange. After Rhodamine 6G: light source: Blue/Green / filter: Orange |
| TGL83E | apply black powder | followed step one with a black powder treatment and closed with thorough visual exam. |
| | Photography | marked up the latent. labeled by analyst as L2.A, and photographed using scales for size. |
| TJPYX8 | Photography | White light |
| TPQF8T | Photography | Blue light 445 nm, yellow filter 495 nm. |
| TPVTUN | Photography | We used Crime-Light 82S Uv nm365 to watch fingerprint in Item2. We take photo and didnt use any filter in camera. Fingerprint was in square B. |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| TURD6Z | Photography | Photographed ridge detail in quadrant B after cyanoacrylate fuming - used coaxial light box and rephotographed ridge detail after Rhodamine 6G processing - used Laser (Bright Beam) at 532nm with orange and FF1 filters |
| U9YZHM | Photography | Foto camera: Nikon D3100, Lens AF-S Micro Nikkor 40 mm |
| UAYXXN | Photography | Photographed latent using ALS at 475 nm with orange filter. |
| ULPQ3Q | Photography | 1. Photos of evidence prior to analysis 2. Photos of evidence in original state received 3. Photos after each process where visible friction ridge detail was noted (with and without scale) |
| | Lifting | Lifting tape used to preserve developed friction ridge impression |
| UM2GG2 | Photography | |
| UNC7V8 | Photography | |
| UPU4FJ | Photography | A photograph is taken of the piece before the piece is treated, the piece of evidence is treated with the applicable reagent. After the print is treated and developed, general and close-up photographs are taken to reveal the details of the print. A ruler is used for each photograph. |
| UW8BP9 | Photography | fingerprint was photographed with a macro camera lens and linear scale (450 nm with the filter OG550) |
| V2FULF | Lifting | Tape lift placed onto a lift card |
| V9EHYD | Photography | Firstly, the overall photograph was taken with the NIKON D850 camera and then the macro photograph was taken with the macro lens. The photo is saved in "JPG" and "TIFF" format. |
| VF2FV2 | Photography | Powder print, ambient light |
| VF34A7 | Photography | Digital photos - Canon EOS 60D, 100 mm lens, scale ruler. |
| | CD-R | Recording digital photos of latent print to CD-R. |
| WU2AF | Photography | after Visual Examination - under white light |
| | Photography | after Cyanoacrylate Fuming - under white light |
| | Photography | after Basic Yellow 40 - in alternate light source at 450 nm using a orange colored bandpass filter |
| WLNFE | Photography | Nikon camera utilized. |
| WMELC6 | Photography | Viewed with a 530nm/green forensic laser and digitally captured in section B. |
| WPJC6D | Lifting | Fingerprint lifting tape. |
| WT9H3G | Photography | |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|---|--|
| WV9TQ4 | Photography | photograph and upload into ADAMS, enhancement with photoshop |
| X38TPW | Photography Lifting | raw images using fx camera |
| X4LZBD | Lifting | Used 2" clear/transparent fingerprint tape to lift print and secured the print to a white latent print backing card |
| X82ERT | Photography | Canon 850 |
| X8KB7D | Lifting | clear lift tape was used to collect and preserve print. Print was then transferred to a white lift card. |
| XA6C2Z | Photography | |
| XEVXJL | Photography | |
| XFRC7E | Photography | Nikon D7100 |
| XG9AVX | Lifting | Using clear lift tape, I adhered the tape to the ridge detail and smoothed out any bubbles or creases that were present. I lifted the tape from the item and adhered it to a latent print lift card and filled out all the proper information. |
| XMBJY6 | Photography | |
| XWEMXM | None | |
| Y28ZKW | Lifting | Tape lift |
| Y7MM39 | Photography | |
| YBC4BT | Photography Photography Photography | Imaged with side lighting Illuminated with flashlight illuminated with laser and used orange filter |
| YF7226 | Photography Lifting | |
| YKDNJM | Photography | |
| YLCQLX | Photography | Photographs were taken on a copy stand camera during all steps of processing of item 2. |
| YNZ3B3 | Lifting | |
| YQT3HE | Photography | Preservation Hinged Print Lifters LFT-W-2XS |

TABLE 3 - Item 2

| WebCode | Preservation Methods | Method Details |
|---------|----------------------|---|
| YTCBC8 | Photography | Nikon D850 in room lighting |
| YUNYYT | Photography | 1. After Dye Stain, Mark photographed using 445nm light with 495nm Filter. |
| YWGMMF | Photography | Photography + Crime light MLD. |
| YY6YN7 | Photography | digital capture |
| Z28CLX | Photography | digitally captured |
| Z9RFT2 | Photography | |
| ZGB6XZ | Photography | |
| ZGVRKN | Photography | photographed at visual, after R6G, and powder |
| ZJ29Q7 | Photography | The method used to preserve the evidence/prints is photography. Equipment used: Camera Nikon D850 with and TIFF as the image quality and Full Spectrum Imaging System Arrowhead (FSIS II) Wavelength UV light: 365 nm with filter 365nm UV. |
| ZKXJMA | LPPM R7 | Visual of developed print captured/preserved via photograph, single lens flex camera. Digitally captured in TIF. |
| ZLFFNA | Lifting | |
| ZXMAUT | Photography | |

Item 2 - Preservation Response Summary

Participants: 238

Methods Utilized

| | |
|-------------|-----|
| Lifting | 82 |
| Photography | 183 |
| Scanning | 3 |

****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 |
|---------|------------------------|---|
| 27AWUM | None | |
| 2F243T | None | N/A |
| 2J6WZX | N/A | Scaled photographs taken prior to processing. No friction ridge impressions were present, so no additional preservation methods were necessary. Item returned to original packaging. |
| 2JZKC2 | Photography | |
| 2M69WX | Photography | Latent prints would have been photographed 1:1. |
| 2PRQTP | Photography | Digital Imaging |
| 2YAG6F | Lifting | The glossy photograph was dark in several areas and I could not successfully observe any latent prints; so I lifted all 4 squares utilizing latent print tape and placed onto a latent lift card. No latent prints were observed. |
| 34YEBH | [No Methods Reported.] | No preservation was used. |
| 39C6NP | [No Methods Reported.] | None, no ridge detail was developed. |
| 3DRRAG | No Print Developed | No print developed throughout sequential processing of item. |
| 4KA74E | Photography | I used photography as method of preservation of the evidence. |
| 4L3C47 | Photography | |
| 4PYL9 | Photography | after amido black - in halogen light |
| 4VKUMC | Photography | The method used to preserve the evidence/prints is photography. Equipment used: Full Spectrum Imaging System Arrowhead (FSIS II) Wavelength UV light: 254 nm with filter 254 nm UV. |
| 4WY6RW | Photography | ALS (520nm w/orange filter); 1,2-Indane ZnCl ₂ (CSS w/orange filter) |
| 4ZK34T | [No Methods Reported.] | No ridge detail was observed on grids A-D |
| 4ZZ9L4 | N/A | No latent lifts were recovered. Item resealed in packaging for storage. |
| 6FPZHP | Scanning | I placed a photograph inside a clear plastic sleeve and made a color copy of the photograph to show that ridge detail was not present. |
| 6GJNZK | Photography | |
| 6UAFKN | [No Methods Reported.] | None were used because no prints were visual |

TABLE 3 - Item 3

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|---|
| 6WRNJN | Photography | Utilized a scale label to include event information and process utilized. Completed digital imaging of detail with camera at 90 degrees on a digital workstation utilizing a life size converter lens, RAW format, ISO 100, F16. The image after CA fuming was taken with regular light, and the lighting was metered off of the light meter on the digital camera to select shutter speed. |
| 6YF49X | [No Methods Reported.] | No mark recovered |
| 7648GR | Photography | General photography |
| 77GJR4 | Lifting | *Please note that gloves were worn at all times throughout this processing. Clear tape was placed across the area of observed ridge detail and lifted from the item. The tape lift was then placed onto a white backing card for contrast and preservation. A directionality arrow was drawn onto the front of the card for orientation. All case information was added to the back of the card. The latent lift card was then placed into an evidence envelope and sealed with evidence tape. |
| 7C6BRK | N/A | No latents observed |
| 7KTBYG | None | |
| 7UPY88 | [No Methods Reported.] | N/A |
| 7W882Z | NA | No prints found to photograph. |
| 7ZWFMM | Photography | Digital images of the item were taken after application of fluorescent powder, after blotting with RAY and after fuming for 48 minutes. Appropriate filter used on camera. |
| 82D9W3 | [No Methods Reported.] | no, lifting were made |
| 8CH9DG | None | |
| 8ETYVX | Lifting | No prints were visible after processing—used fingerprint tape for lifting possible prints—no prints recovered |
| 8JEBD8 | Photography | VIS-RUVIS 1 photo, LUMI-RUVIS 1 photo |
| 8TMFTH | 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. |
| 8ZM72Z | Photography | Digital photography with and without scale to show no positive reaction |
| 8ZQN46 | [No Methods Reported.] | N/A |

TABLE 3 - Item 3

| WebCode | Preservation Methods | Method Details |
|---------|---|---|
| 9JDLWG | Photography | |
| AHL3EF | [No Methods Reported.] | No prints |
| AQBTX2 | Photography | After developing the latent print with gray/ black powder, it was documented and photographed with metric scale, use a Nikon D7000. |
| AV99QH | None | No latent prints developed |
| B2M8MG | Photography | DCS5 Ridge details are not clear |
| B3LHDH | none | No ridge detail developed/recovered. |
| BEAG82 | Photography Lifting Photography | The item was photographed with a scale: Prior to processing. Potential ridge detail was photographed: After fuming, After dusting - prior to lifting Lifting the latent: It was done using standard 2" clear lifting tape and placed on a latent lift card. The necessary latent lift card information was then filled out. Per our Lab Policy, latent lift cards have to be photographed and attached to the case file whether or not they are of value. I photographed this latent lift card. |
| BFAKUP | Photography | Digital photo then scanned to disk and case file. |
| BLX76H | Photography | overall |
| BX2UFY | Photography | Photography of mark visualised in section 'A' carried out using Indandione set up on Foster and Freeman DCS5, with Green Lazer. |
| C2K2LD | Photography | se tomaron vistas fotográficas de la evidencia, la cual mostro cambio de coloración sobre su superficie , luego de haber sido procesada. [English translation of comments was not obtained by the time of report publication.] |
| C3HBQG | Photography | Only overall images were uploaded into the Authenticated Digital Asset Management System (ADAMS) and the laboratory's Information Management System (LIMS). No latent prints were observed of developed. |
| C7YNMX | Photography | The results were preserved by photography. |
| C8VXHZ | [No Methods Reported.] | N/A |
| C949CH | [No Methods Reported.] | None |
| CDY6VH | Photography | 1:1 photography. Overall taken only as a documentary photo |
| CHR4CY | Photography | The method of preservation that I used was the photography. |
| CL7XXX | Photography | UV light and orange barrier filter |
| CQZTY6 | Photography | The latent print was photographed. Camera: Canon Power Shot SX20IS. |

TABLE 3 - Item 3

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|---|
| CUY4V6 | Photography | Camera Canon EOS 50D, lens "EF100 mm, 1:2.8 USM". |
| CV2M7M | Photography | LP photographed with green laser (532nm/orange filter) during laser exam (after black mag powder) |
| CVG46L | Photography | W/FSIS under UV light w/laser at 532 nm and orange filter |
| DRCRUE | N/A | N/A |
| EAWQMH | Photography | |
| ECUDR7 | None | |
| EV9LFL | Photography | Digital capturing/processing |
| EW7WBP | Photography | Documentary photos were taken. Photos were saved in JPEG and NEF format and burned to a DVD. |
| FEHXM3 | Photography | Documentation with Photograph, metric scale and UV Ligth. |
| FJDRMP | Photography | the fingerprint impression was preserved by photography |
| FPZJQC | Photography | the latent prints recovered are photographed using a DCS4 imaging device (blue light, yellow filter 530 nm) a paper copy is sent to information branch for comparison on the data base, and the soft copy of latent prints recovered are kept on the hard disk. |
| FRNCLE | [No Methods Reported.] | None. Item 3 was negative for latent prints. |
| FT2LWZ | Photography | The piece of evidence is photo documented before the process begins and after the fingerprint development process is finished, for preservation and subsequent analysis. |
| G32X4E | None | No latent(s)/ ridge detail recovered Blind Tape Lifts Attempted After Powders - negative results |
| GA332P | [No Methods Reported.] | No friction ridge detail was developed, therefore no preservation method was used |
| GEFTLY | Photography | Was used as preservation method since it did not develop detail ridges and was the only alternative to have the evidence on record. |
| GKHWDH | FSIS | Before Fuming captured using FSIS. |
| | Photography | After Cyanoacrylate Fuming re-photographed. |
| GNNMHD | N/A | No latent print was found/developed. |
| GPKYR | NA | No print |
| GUTYYJ | FSIS | |

TABLE 3 - Item 3

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|--|
| HBRRNP | Photography | |
| HHCVN6 | [No Methods Reported.] | No latent prints were developed |
| HVW8C9 | Photography | |
| J22CTK | Photography | |
| J92T36 | None | No prints were developed, so no method of preservation was utilized. |
| J9G6RW | Lifting | Image of the photograph was very challenging. We saw no fingerprint and after powdering we decided to lift possible fingerprint up with white silicone. No results. |
| JDTCT2 | None | |
| JDV4J | None | |
| JL69VM | Photography | |
| JLN22Q | N/A | No latent ridge detail recovered. |
| JW8F6T | Photography | The sample was photograph for preservation purposes. |
| JW8HN7 | [No Methods Reported.] | N/A |
| JYRL8W | Photography | Photographed with LASER and orange filter. |
| K22RLB | Photography | |
| K2WDXP | [No Methods Reported.] | No method could be used, as there were no fingerprints visible. Therefore a second time of cyanoacrylate fuming was used, but also with no result. |
| K3BYHC | N/A | No ridge detail developed so no method of preservation was used. Photographs of the item were only taken to document the evidence as received and chemical processing labels on packaging after the item was re-sealed. |
| K7B64A | [No Methods Reported.] | No images were taken. |
| KAU4DX | [No Methods Reported.] | N/A |
| KHLR29 | Photography | The ridge detail observed in section D was labeled with a scale. The item was placed on ESPON V550 flat bed scanner. The front and the back of the item were scanned with a resolution of 300dpi and 24bit color. The ridge detail in section D was scanned with a resolution of 1000 dpi and 24bit color. |
| KHP6TB | [No Methods Reported.] | No preservation technique as ridge detail was not developed. Did not use additional techniques due to no visible ridge detail to enhance with dye stain and VMD being out of service. |

TABLE 3 - Item 3

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|---|
| KJEFQV | Photography | photography of smudge on section A no ridge detail observed, validation prints were visible at second magnetic application |
| KMGDXH | Photography | 12/1/2022: Documentary photographs of item with green laser (532nm) after applying R6G. 12/7/2022: Overall photo taken prior to vacuum metal deposition. 12/9/2022: Documentary photos of item and VMD control. If ridge detail was observed, 1:1 photographs of ridge detail would have been captured. |
| L8JLTT | Photography | DCS 5, VSC 8000 |
| LBKPLF | Photography | After prolong examination no prints were found |
| LCTWUA | [No Methods Reported.] | nothing observed |
| LGZGH7 | [No Methods Reported.] | Fragment not found |
| LH32WV | [No Methods Reported.] | No ridge detail observed |
| LP48F4 | [No Methods Reported.] | As outlined above there were no development observed. |
| LTY4Y4 | Photography | |
| LUNPE8 | Photography | Canon 5D + 90 macro-lens 1:1 and white+Crime-lite 82S. Finally photoshop. This was the best method for this fingerprint. |
| MDEZZL | LPPM R7 | No prints developed |
| MQNJQU | Photography | The fingerprint fragment developed for its preservation was documented by photograph. |
| | Lifting | A fingerprint hinge lifter, previously identified with the case information, was used and the fingerprint fragment was lifted. |
| MTFDUP | Photography | Aperture priority |
| MWZENC | [No Methods Reported.] | None |
| N7D3UU | [No Methods Reported.] | No photographs were taken. |
| N9MW2F | [No Methods Reported.] | No preservation, because no fingerprint was detected. |
| NDFAX | None | |
| NPC3DF | Photography | Photography performed twice. First to capture the small amount of FRD at the far right perimeter of the photograph (thought to be "post-incident" in nature). Captured post CAE/RAM with the Nikon D810 with orange filter and CSS wavelength. Second to capture the FRD thought to be placed purposely for test purposes. Captured post powder dusting with the Nikon D810 and oblique lighting. |

TABLE 3 - Item 3

| WebCode | Preservation Methods | Method Details |
|---------|----------------------------------|---|
| NQAD9J | Lifting | Clear lifting tape was applied to each section and lifted and placed on white index cards. Section "D" was observed to have smudged print with little to no detail. |
| NQMZB6 | Photography | |
| NVHXQN | Photography | I photographed item before processing for documentation purposes. |
| NYRC3T | [No Methods Reported.] | N/A |
| P94RLE | Lifting | Used black powder to develop print in Section A. Lifted using lifting tape and placed on MSP 74 latent lift card. |
| PAFAYT | Photography | The fingerprint fragment developed for its preservation was documented by photograph. |
| PKE4U3 | [No Methods Reported.] | no print found, no documentation |
| Q8KAXY | [No Methods Reported.] | none |
| QR8NLW | None | |
| QYRRTY | None | |
| QZ73YJ | [No Methods Reported.] | N/A |
| QZLKEA | N/A | |
| RAAUKH | [No Methods Reported.] | No ridge detail developed, therefore there was nothing to preserve |
| RN2PLN | No Ridge Detail Detected | |
| RQAWQ2 | Photography | |
| TBT8PE | UIS | Horiba universal imaging system (UIS) |
| TEUDYH | [No Methods Reported.] | N/A |
| TGL83E | black powder, fluorescent powder | treated with black powder and given thorough visual inspection. followed with processing with fluorescent powder and finished with thorough visual examination |
| TJPYX8 | Photography | No fingermark was developed, see section additional comments for details. |
| TPVTUN | Photography | We used Crime-Light 82S Uv nm365 to watch fingerprint in Item3. We get nothing. Mayby the glue was wrong.. |
| TURD6Z | [No Methods Reported.] | No documentation since not a single ridge or fragment was developed on glossy photograph |

TABLE 3 - Item 3

| WebCode | Preservation Methods | Method Details |
|---------|----------------------------|---|
| U9YZHM | Photography | Foto camera: Nikon D3100, Lens AF-S Micro Nikkor 40 mm |
| UAYXXN | [No Methods Reported.] | No latent developed and no preservation needed. |
| ULPQ3Q | [No Methods Reported.] | No latent prints developed |
| UNC7V8 | Photography | |
| UPU4FJ | Photography | A photograph is taken of the piece before the piece is treated, the piece of evidence is treated with the applicable reagent. After the print is treated and developed, general and close-up photographs are taken to reveal the details of the print. A ruler is used for each photograph. |
| UW8BP9 | Photography | fingerprint was photographed with a macro camera lens and linear scale (312 nm) |
| V9EHYD | Photography | Normally, Firstly, the overall photograph was taken with the NIKON D850 camera and then the macro photograph was taken with the macro lens. The photo is saved in "JPG" and "TIFF" format. But in this case, no fingerprints developed |
| VF2FV2 | Photography Photography | Crime scope, 515 nm, double stacked orange filter Bright Beam Laser, double stacked orange filter |
| WLNFE | Scanning | Epson scanner utilized |
| WMELC6 | none | Did not find a print. |
| WPJC6D | [No Methods Reported.] | No lifting was made. |
| WT9H3G | Photography | |
| WV9TQ4 | Photography | photograph and upload into ADAMS, enhancement with photoshop |
| X4LZBD | [No Methods Reported.] | None |
| X82ERT | [No Methods Reported.] | None |
| X8KB7D | [No Methods Reported.] | N/A |
| XEVXJL | Photography | |
| XFRC7E | Photography | Nikon D7100 |
| XG9AVX | [No Methods Reported.] | No ridge detail developed. Since no ridge detail developed on the glossy photograph, dye stains technique will not be used and the VMD is out of order at this time. |
| XMBJY6 | Photography | |

TABLE 3 - Item 3

| WebCode | Preservation Methods | Method Details |
|---------|------------------------|---|
| XWEMXM | None | |
| Y28ZKW | [No Methods Reported.] | No prints recovered |
| YF7226 | Photography | |
| YKDNJM | Photography | |
| YLCQLX | Photography | Photographs were taken on a copy stand camera during all steps of processing of item 3. |
| YNZ3B3 | [No Methods Reported.] | N/A No friction ridge development. |
| YQT3HE | Photography | |
| YTCBC8 | Photography | Nikon D810 camera with bright beam laser illumination |
| YWGMMF | [No Methods Reported.] | No mark. |
| YY6YN7 | Photography | fluorescence examination with 440nm |
| Z28CLX | None | |
| ZGVRKN | Lifting | took gel lift to see if any detail had been camouflaged by background |
| ZJ29Q7 | Photography | The method used to preserve the evidence/prints is photography. Equipment used: Full Spectrum Imaging System Arrowhead (FSIS II) Wavelength UV light: 254 nm with filter 254 nm UV. |
| ZKXJMA | LPPM R7 | Visual of developed print captured/preserved via photograph, single lens reflex camera. Digitally captured in raw/TIF. |
| ZXMAUT | Photography | |

Item 3 - Preservation Response Summary

Participants: 169

Methods Utilized

| | |
|-------------|----|
| Lifting | 9 |
| Photography | 85 |
| Scanning | 2 |

****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

| WebCode | | First Level Pattern(s)? | | | WebCode | | First Level Pattern(s)? | | |
|---------|--------------|-------------------------|------|-------|---------|--------------|-------------------------|------|-------|
| | | Arch | Loop | Whorl | | | Arch | Loop | Whorl |
| 27AWUM | Not Suitable | | | | 6UAFKN | N/A | | | |
| 2F243T | N/A | | | | 6WRNJN | N/A | | | |
| 2J6WZX | | | ✓ | | 6YF49X | Not Suitable | | | |
| 2JZKC2 | | | ✓ | | 7648GR | Not Suitable | | | |
| 2KE2F8 | Not Suitable | | | | 77GJR4 | N/A | | | |
| 2M69WX | Not Suitable | | | | 7ALAWX | N/A | | | |
| 2PRQTP | | | ✓ | | 7BRJ2N | Not Suitable | | | |
| 2U2Z6R | N/A | | | | 7C6BRK | N/A | | | |
| 2VWNMM | | | ✓ | | 7KTBYG | | | ✓ | |
| 2YAG6F | | | ✓ | | 7NFU6L | Not Suitable | | | |
| 34YEBH | | | ✓ | | 7UPY88 | N/A | | | |
| 39C6NP | Not Suitable | | | | 7W882Z | N/A | | | |
| 3DRRAG | Not Suitable | | | | 7ZWFMM | Not Suitable | | | |
| 4KA74E | N/A | | | | 82D9W3 | Not Suitable | | | |
| 4L3C47 | N/A | | | | 8CH9DG | | | ✓ | |
| 4PKCMR | N/A | | | | 8ETYVX | N/A | | | |
| 4PYL9 | | | ✓ | | 8JEBD8 | Not Suitable | | | |
| 4VKUMC | N/A | | | | 8TMFTH | | | ✓ | |
| 4WY6RW | Not Suitable | | | | 8WMV8L | N/A | | | |
| 4ZK34T | | | ✓ | ✓ | 8ZM72Z | Not Suitable | | | |
| 4ZZ9L4 | | | ✓ | | 8ZQN46 | | | ✓ | ✓ |
| 6FPZHP | N/A | | | | 9JDLWG | Not Suitable | | | |
| 6GJNZK | N/A | | | | 9KRXQF | | | ✓ | |
| 6GPULN | N/A | | | | | | | | |

TABLE 4 - Item 1

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |
| 9MCZHK | N/A | | | CV2M7M | N/A | | |
| 9ZLMMC | N/A | | | CVG46L | N/A | | |
| ABWJ3Y | Not Suitable | | | CY3TMD | | ✓ | ✓ |
| AHL3EF | | | ✓ | D62PRV | Not Suitable | | |
| AQBTX2 | N/A | | | D9FE6D | | ✓ | ✓ |
| AV99QH | N/A | | | DRCRUE | N/A | | |
| B2M8MG | | ✓ | | E4MP4Z | N/A | | |
| B3LHDH | N/A | | | EAC3AU | Not Suitable | | |
| B4F7VD | N/A | | | EAWQMH | Not Suitable | | |
| BEAG82 | Not Suitable | | | ECUDR7 | | ✓ | ✓ |
| BFAKUP | N/A | | | ER64P6 | Not Suitable | | |
| BJ8ZAY | N/A | | | EV9LFL | N/A | | |
| BLX76H | N/A | | | EW7WBP | N/A | | |
| BX2UFY | N/A | | | FD2ZZ6 | N/A | | |
| C2K2LD | N/A | | | FEHXM3 | N/A | | |
| C3FLLJ | N/A | | | FJDRMP | N/A | | |
| C3HBQG | N/A | | | FMGJVP | N/A | | |
| C7YNMX | N/A | | | FPZJQC | | ✓ | |
| C8VXHZ | N/A | | | FQWBLH | Not Suitable | | |
| C949CH | | ✓ | ✓ | FRNCLE | N/A | | |
| CDY6VH | N/A | | | FT2LWZ | Not Suitable | | |
| CHR4CY | N/A | | | FY8D8J | | ✓ | |
| CQZTY6 | Not Suitable | | | G32X4E | N/A | | |
| CRVFC9 | N/A | | | G4Y9YG | | ✓ | |
| CUY4V6 | Not Suitable | | | | | | |

TABLE 4 - Item 1

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |
| GA332P | N/A | | | JW8HN7 | Not Suitable | | |
| GEFTLY | N/A | | | JYRL8W | | ✓ | |
| GKHWDH | N/A | | | K22RLB | N/A | | |
| GNMMHD | N/A | | | K2WDXP | N/A | | |
| GPKYR | N/A | | | K3BYHC | N/A | | |
| GUTYYJ | N/A | | | K7B64A | N/A | | |
| HBRRNP | Not Suitable | | | KAU4DX | N/A | | |
| HFFG6T | | ✓ | ✓ | KDUF9X | N/A | | |
| HHCVN6 | Not Suitable | | | KHLR29 | N/A | | |
| HVW8C9 | | ✓ | ✓ | KHP6TB | N/A | | |
| HXMJUE | Not Suitable | | | KJEFQV | Not Suitable | | |
| J22CTK | Not Suitable | | | KMGDXH | N/A | | |
| J6UPYG | | ✓ | | LBKPLF | N/A | | |
| J6YXCA | N/A | | | LCRZGJ | N/A | | |
| J92T36 | N/A | | | LCTWUA | N/A | | |
| J9G6RW | N/A | | | LGZGH7 | | ✓ | |
| JDTCT2 | Not Suitable | | | LH32WV | Not Suitable | | |
| JDV4J | N/A | | | LP48F4 | N/A | | |
| JJ3JJ7 | | ✓ | ✓ | LTY4Y4 | N/A | | |
| JKXUQ3 | | ✓ | | M2ALEG | N/A | | |
| JL69VM | | ✓ | | MC9KJ8 | | ✓ | |
| JLN22Q | Not Suitable | | | MDEZZL | N/A | | |
| JNFXR7 | Not Suitable | | | METJL6 | N/A | | |
| JRUQAY | N/A | | | MJQU84 | Not Suitable | | |
| JTR49C | N/A | | | | | | |

TABLE 4 - Item 1

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |
| MK2PVG | N/A | | | QR8NLW | Not Suitable | | |
| MK6B9P | Not Suitable | | | QVMB48 | Not Suitable | | |
| MMPC3B | | ✓ | | QYRRTY | Not Suitable | | |
| MQNJQU | Not Suitable | | | QZ73YJ | N/A | | |
| MTFDUP | | ✓ | ✓ | QZLKEA | N/A | | |
| MWZENC | | ✓ | ✓ | R6WWBB | N/A | | |
| N7D3UU | | ✓ | | RA788B | Not Suitable | | |
| N9MW2F | Not Suitable | | | RAAUKH | Not Suitable | | |
| NDA9X | | ✓ | ✓ | RN2PLN | | ✓ | ✓ |
| NPC3DF | Not Suitable | | | RQAWQ2 | | ✓ | |
| NQAD9J | N/A | | | T8B6KU | | ✓ | |
| NQMZB6 | N/A | | | T8UQDK | N/A | | |
| NVHXQN | N/A | | | T9RA8Y | Not Suitable | | |
| NWMGLB | N/A | | | TBT8PE | Not Suitable | | |
| NYRC3T | N/A | | | TEUDYH | N/A | | |
| P94RLE | N/A | | | TFZYDH | | ✓ | |
| PAFAYT | N/A | | | TGL83E | Not Suitable | | |
| PFJB28 | N/A | | | TJPYX8 | N/A | | |
| PJLAF8 | N/A | | | TPVTUN | N/A | | |
| PKE4U3 | | ✓ | | TURD6Z | Not Suitable | | |
| PUXH2L | Not Suitable | | | UAWBEP | Not Suitable | | |
| PXHKTR | | ✓ | | UAYXXN | | ✓ | ✓ |
| Q8KAXY | Not Suitable | | | ULPQ3Q | Not Suitable | | |
| QGXXEF | N/A | | | UM2GG2 | Not Suitable | | |
| QQWR96 | N/A | | | | | | |

TABLE 4 - Item 1

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |
| UNC7V8 | | ✓ | | YF7226 | N/A | | |
| UPU4FJ | N/A | | | YKDNJM | N/A | | |
| UW8BP9 | Not Suitable | | | YLCQLX | Not Suitable | | |
| V2FULF | N/A | | | YNZ3B3 | Not Suitable | | |
| V9EHYD | Not Suitable | | | YQT3HE | N/A | | |
| VF2FV2 | | ✓ | ✓ | YTCBC8 | N/A | | |
| VF34A7 | | ✓ | | YUNYYT | | ✓ | ✓ |
| VVU2AF | | ✓ | | Z28CLX | Not Suitable | | |
| WLNFE | Not Suitable | | | Z9RFT2 | N/A | | |
| WMELC6 | N/A | | | ZGB6XZ | Not Suitable | | |
| WPJC6D | Not Suitable | | | ZGVRKN | Not Suitable | | |
| WT9H3G | | ✓ | ✓ | ZJ29Q7 | N/A | | |
| WV9TQ4 | N/A | | | ZKXJMA | | | ✓ |
| X38TPW | N/A | | | ZLFFNA | N/A | | |
| X4LZBD | N/A | | | ZXMAUT | Not Suitable | | |
| X82ERT | | ✓ | ✓ | | | | |
| X8KB7D | Not Suitable | | | | | | |
| XA6C2Z | Not Suitable | | | | | | |
| XEVXJL | | ✓ | | | | | |
| XG9AVX | N/A | | | | | | |
| XMBJY6 | Not Suitable | | | | | | |
| XWEMXM | | ✓ | | | | | |
| Y28ZKW | N/A | | | | | | |
| Y7MM39 | N/A | | | | | | |
| YBC4BT | Not Suitable | | | | | | |

TABLE 4 - Item 1

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |

| Item 1 - Pattern Response Summary | | | | | | Total Participants: 245 |
|--|------|------|-------|--------------|-----|-------------------------|
| 1st Level | Arch | Loop | Whorl | Not Suitable | N/A | |
| Total | 2 | 52 | 20 | 68 | 112 | |
| <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 2

| WebCode | | First Level Pattern(s)? | | | WebCode | | First Level Pattern(s)? | | |
|---------|-----|-------------------------|------|-------|---------|-----|-------------------------|------|-------|
| | | Arch | Loop | Whorl | | | Arch | Loop | Whorl |
| 27AWUM | | | ✓ | | 6UAFKN | N/A | | | |
| 2F243T | N/A | | | | 6WRNJN | | | ✓ | |
| 2J6WZX | | | ✓ | | 6YF49X | | | ✓ | |
| 2JZKC2 | | | ✓ | | 7648GR | | | ✓ | |
| 2KE2F8 | | | ✓ | ✓ | 77GJR4 | N/A | | | |
| 2M69WX | | | ✓ | | 7ALAWX | N/A | | | |
| 2PRQTP | | | ✓ | | 7BRJ2N | | | ✓ | |
| 2U2Z6R | N/A | | | | 7C6BRK | N/A | | | |
| 2VWNMM | | | ✓ | | 7KTBYG | | | ✓ | |
| 2YAG6F | | | ✓ | | 7NFU6L | | | ✓ | |
| 34YEBH | | | ✓ | | 7UPY88 | | | ✓ | |
| 39C6NP | | | ✓ | | 7W882Z | N/A | | | |
| 3DRRAG | | | ✓ | ✓ | 7ZWFMM | | | ✓ | ✓ |
| 4KA74E | N/A | | | | 82D9W3 | | | ✓ | |
| 4L3C47 | N/A | | | | 8CH9DG | | | ✓ | |
| 4PKCMR | N/A | | | | 8ETYVX | N/A | | | |
| 4PYL9 | | | ✓ | | 8JEBD8 | | | ✓ | ✓ |
| 4VKUMC | N/A | | | | 8TMFTH | | | ✓ | |
| 4WY6RW | | | ✓ | ✓ | 8WMV8L | N/A | | | |
| 4ZK34T | | | ✓ | ✓ | 8ZM72Z | | | ✓ | |
| 4ZZ9L4 | | | ✓ | | 8ZQN46 | | | ✓ | |
| 68C2XL | | | | ✓ | 9JDLWG | | | ✓ | |
| 6FPZHP | N/A | | | | 9KRXQF | | | ✓ | |
| 6GJNZK | N/A | | | | 9MCZHK | N/A | | | |
| 6GPULN | N/A | | | | | | | | |

TABLE 4 - Item 2

| WebCode | | First Level Pattern(s)? | | | WebCode | | First Level Pattern(s)? | | |
|---------|-----|-------------------------|------|-------|---------|-----|-------------------------|------|-------|
| | | Arch | Loop | Whorl | | | Arch | Loop | Whorl |
| 9ZLMMC | N/A | | | | CV2M7M | N/A | | | |
| ABWJ3Y | | | ✓ | | CVG46L | N/A | | | |
| AHL3EF | | | ✓ | | CY3TMD | | | ✓ | |
| AQBTX2 | N/A | | | | D62PRV | | | ✓ | |
| AV99QH | N/A | | | | D9FE6D | | | ✓ | |
| B2M8MG | | | ✓ | | DRCRUE | N/A | | | |
| B3LHDH | N/A | | | | E4MP4Z | | | ✓ | |
| B4F7VD | | | ✓ | | EAC3AU | | | ✓ | ✓ |
| BEAG82 | | | ✓ | | EAWQMH | | | ✓ | |
| BFAKUP | | | ✓ | ✓ | ECUDR7 | | | ✓ | |
| BJ8ZAY | N/A | | | | ER64P6 | | | ✓ | |
| BLX76H | N/A | | | | EV9LFL | N/A | | | |
| BX2UFY | N/A | | | | EW7WBP | N/A | | | |
| C2K2LD | N/A | | | | FD2ZZ6 | | | ✓ | |
| C3FLLJ | N/A | | | | FEHXM3 | N/A | | | |
| C3HBQG | N/A | | | | FJDRMP | N/A | | | |
| C7YNMX | N/A | | | | FMGJVP | N/A | | | |
| C8VXHZ | | | ✓ | | FPZJQC | | | ✓ | |
| C949CH | | | ✓ | ✓ | FQWBLH | | | ✓ | |
| CDY6VH | N/A | | | | FRNCLE | | ✓ | | |
| CHR4CY | N/A | | | | FT2LWZ | | | ✓ | |
| CL7XXX | | | ✓ | ✓ | FY8D8J | | | ✓ | ✓ |
| CQZTY6 | | | ✓ | | G32X4E | N/A | | | |
| CRVFC9 | | | ✓ | | G4Y9YG | | | ✓ | |
| CUY4V6 | | | ✓ | | | | | | |

TABLE 4 - Item 2

| WebCode | | First Level Pattern(s)? | | | WebCode | | First Level Pattern(s)? | | |
|---------|--------------|-------------------------|------|-------|---------|-----|-------------------------|------|-------|
| | | Arch | Loop | Whorl | | | Arch | Loop | Whorl |
| GA332P | N/A | | | | JW8F6T | | | ✓ | |
| GEFTLY | N/A | | | | JW8HN7 | | | ✓ | |
| GKHWDH | N/A | | | | JYRL8W | | | ✓ | |
| GNMMHD | N/A | | | | K22RLB | N/A | | | |
| GPKYR | N/A | | | | K2WDXP | N/A | | | |
| GUTYYJ | N/A | | | | K3BYHC | N/A | | | |
| HBRRNP | | | ✓ | | K7B64A | N/A | | | |
| HFFG6T | | | ✓ | | KAU4DX | N/A | | | |
| HHCVN6 | | | ✓ | | KDUF9X | | | ✓ | |
| HVW8C9 | | | ✓ | | KHLR29 | | | ✓ | |
| HXMJUE | | | ✓ | | KHP6TB | N/A | | | |
| J22CTK | | | ✓ | | KJEFQV | | | ✓ | |
| J6UPYG | | | ✓ | | KMGDXH | N/A | | | |
| J6YXCA | N/A | | | | L8JLTT | | | ✓ | |
| J92T36 | N/A | | | | LBKPLF | N/A | | | |
| J9G6RW | N/A | | | | LCRZGJ | N/A | | | |
| JDTCT2 | | | ✓ | | LCTWUA | N/A | | | |
| JDV4J | N/A | | | | LGZGH7 | | | ✓ | |
| JJ3JJ7 | | | ✓ | | LH32WW | | | ✓ | |
| JKXUQ3 | | | ✓ | | LTY4Y4 | N/A | | | |
| JL69VM | | | ✓ | | M2ALEG | N/A | | | |
| JLN22Q | Not Suitable | | | | MC9KJ8 | | | ✓ | |
| JNFXR7 | | | ✓ | | MDEZZL | N/A | | | |
| JRUQAY | N/A | | | | METJL6 | N/A | | | |
| JTR49C | N/A | | | | | | | | |

TABLE 4 - Item 2

| WebCode | | First Level Pattern(s)? | | | WebCode | | First Level Pattern(s)? | | |
|---------|-----|-------------------------|------|-------|---------|-----|-------------------------|------|-------|
| | | Arch | Loop | Whorl | | | Arch | Loop | Whorl |
| MJQU84 | | | ✓ | ✓ | QQWR96 | N/A | | | |
| MK2PVG | N/A | | | | QR8NLW | | | ✓ | |
| MK6B9P | | | ✓ | | QVMB48 | | | ✓ | |
| MMPC3B | | | ✓ | | QYRRTY | | | ✓ | |
| MQNJQU | | ✓ | ✓ | | QZ73YJ | | | ✓ | |
| MTFDUP | | | ✓ | | QZLKEA | N/A | | | |
| MWZENC | | | ✓ | ✓ | R6WWBB | N/A | | | |
| N7D3UU | | | ✓ | | RA788B | | | ✓ | |
| N9MW2F | | | ✓ | | RAAUKH | | | ✓ | |
| NDF9X | | | ✓ | ✓ | RN2PLN | | | ✓ | |
| NPC3DF | | | ✓ | | RQAWQ2 | | | ✓ | |
| NQAD9J | N/A | | | | RYGJXG | | | ✓ | |
| NQMZB6 | N/A | | | | T8B6KU | | ✓ | ✓ | ✓ |
| NVHXQN | N/A | | | | T8UQDK | | | ✓ | |
| NWMGLB | | | ✓ | | T9RA8Y | | | ✓ | |
| NYRC3T | N/A | | | | TBT8PE | | | ✓ | |
| P94RLE | N/A | | | | TEUDYH | | | ✓ | |
| PAFAYT | N/A | | | | TFZYDH | | | ✓ | |
| PFJB28 | | | ✓ | | TGL83E | | | ✓ | |
| PJLAF8 | N/A | | | | TJPYX8 | N/A | | | |
| PKE4U3 | | | ✓ | | TPQF8T | | | ✓ | |
| PUXH2L | | | ✓ | | TPVTUN | N/A | | | |
| PXHKTR | | | ✓ | | TURD6Z | | | ✓ | |
| Q8KAXY | | | ✓ | | U9YZHM | | | ✓ | |
| QGXXEF | N/A | | | | | | | | |

TABLE 4 - Item 2

| WebCode | | First Level Pattern(s)? | | | WebCode | | First Level Pattern(s)? | | |
|---------|-----|-------------------------|------|-------|---------|-----|-------------------------|------|-------|
| | | Arch | Loop | Whorl | | | Arch | Loop | Whorl |
| UAWBEP | | | ✓ | | XWEMXM | | | ✓ | |
| UAYXXN | | | ✓ | ✓ | Y28ZKW | N/A | | | |
| ULPQ3Q | | | ✓ | ✓ | Y7MM39 | N/A | | | |
| UNC7V8 | | | ✓ | | YBC4BT | | | ✓ | |
| UPU4FJ | N/A | | | | YF7226 | N/A | | | |
| UW8BP9 | | | ✓ | | YKDNJM | N/A | | | |
| V2FULF | N/A | | | | YLCQLX | | | ✓ | |
| V9EHYD | | | ✓ | | YNZ3B3 | | | ✓ | |
| VF2FV2 | | | ✓ | ✓ | YQT3HE | N/A | | | |
| VF34A7 | | | ✓ | | YTCBC8 | N/A | | | |
| VVU2AF | | | ✓ | | YUNYYT | | | ✓ | |
| WLNFE | | | ✓ | | YWGMMF | | | ✓ | |
| WMELC6 | N/A | | | | YY6YN7 | | | ✓ | |
| WPJC6D | | | ✓ | | Z28CLX | | | ✓ | |
| WT9H3G | | | ✓ | | Z9RFT2 | N/A | | | |
| WV9TQ4 | N/A | | | | ZGB6XZ | | | ✓ | |
| X38TPW | N/A | | | | ZGVRKN | | | ✓ | |
| X4LZBD | N/A | | | | ZJ29Q7 | N/A | | | |
| X82ERT | | | ✓ | ✓ | ZKXJMA | | | ✓ | |
| X8KB7D | | | ✓ | | ZLFFNA | | | ✓ | |
| XA6C2Z | | | ✓ | | ZXMAUT | | | ✓ | ✓ |
| XEVXJL | | | ✓ | | | | | | |
| XFRC7E | | | ✓ | | | | | | |
| XG9AVX | N/A | | | | | | | | |
| XMBJY6 | | | ✓ | ✓ | | | | | |

TABLE 4 - Item 2

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |

| Item 2 - Pattern Response Summary | | | | | | Total Participants: 245 |
|--|------|------|-------|--------------|-----|-------------------------|
| 1st Level | Arch | Loop | Whorl | Not Suitable | N/A | |
| Total | 3 | 145 | 22 | 1 | 94 | |
| <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 |
| 27AWUM | | ✓ | ✓ | 6YF49X | Not Suitable | | |
| 2F243T | N/A | | | 77GJR4 | N/A | | |
| 2J6WZX | Not Suitable | | | 7ALAWX | N/A | | |
| 2JZKC2 | | | ✓ | 7C6BRK | N/A | | |
| 2KE2F8 | N/A | | | 7KTBYG | Not Suitable | | |
| 2M69WX | Not Suitable | | | 7NFU6L | Not Suitable | | |
| 2PRQTP | Not Suitable | | | 7UPY88 | N/A | | |
| 2U2Z6R | N/A | | | 7W882Z | N/A | | |
| 2VWNMM | N/A | | | 7ZWFMM | Not Suitable | | |
| 2YAG6F | N/A | | | 82D9W3 | Not Suitable | | |
| 34YEBH | N/A | | | 8CH9DG | | | ✓ |
| 39C6NP | Not Suitable | | | 8ETYVX | Not Suitable | | |
| 3DRRAG | Not Suitable | | | 8JEBD8 | Not Suitable | | |
| 4KA74E | N/A | | | 8TMFTH | | | ✓ |
| 4L3C47 | N/A | | | 8WMV8L | N/A | | |
| 4PKCMR | N/A | | | 8ZM72Z | Not Suitable | | |
| 4PYL9 | | | ✓ | 8ZQN46 | Not Suitable | | |
| 4VKUMC | N/A | | | 9JDLWG | Not Suitable | | |
| 4WY6RW | | ✓ | ✓ | 9KRXQF | Not Suitable | | |
| 4ZZ9L4 | Not Suitable | | | 9MCZHK | N/A | | |
| 6FPZHP | N/A | | | 9ZLMMC | N/A | | |
| 6GJNZK | N/A | | | ABWJ3Y | Not Suitable | | |
| 6GPULN | N/A | | | AHL3EF | Not Suitable | | |
| 6UAFKN | N/A | | | AQBTX2 | N/A | | |
| 6WRNJJ | | | ✓ | | | | |

TABLE 4 - Item 3

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |
| AV99QH | N/A | | | DRCRUE | N/A | | |
| B2M8MG | Not Suitable | | | E4MP4Z | N/A | | |
| B3LHDH | N/A | | | EAC3AU | | | ✓ |
| B4F7VD | N/A | | | EAWQMH | N/A | | |
| BEAG82 | Not Suitable | | | ECUDR7 | | | ✓ |
| BFAKUP | | ✓ | ✓ | ER64P6 | Not Suitable | | |
| BJ8ZAY | N/A | | | EV9LFL | N/A | | |
| BLX76H | N/A | | | EW7WBP | N/A | | |
| BX2UFY | N/A | | | FD2ZZ6 | N/A | | |
| C2K2LD | N/A | | | FEHXM3 | N/A | | |
| C3FLLJ | N/A | | | FJDRMP | N/A | | |
| C3HBQG | N/A | | | FMGJVP | N/A | | |
| C7YNMX | N/A | | | FPZJQC | | | ✓ |
| C8VXHZ | N/A | | | FQWBLH | Not Suitable | | |
| C949CH | Not Suitable | | | FRNCLE | N/A | | |
| CDY6VH | N/A | | | FY8D8J | Not Suitable | | |
| CHR4CY | N/A | | | G32X4E | N/A | | |
| CL7XX | Not Suitable | | | GA332P | Not Suitable | | |
| CQZTY6 | | | ✓ | GEFTLY | N/A | | |
| CRVFC9 | N/A | | | GKHWDH | N/A | | |
| CUY4V6 | | | ✓ | GNMMHD | N/A | | |
| CV2M7M | N/A | | | GPDKYR | N/A | | |
| CVG46L | N/A | | | GUTYYJ | N/A | | |
| CY3TMD | Not Suitable | | | HBRRNP | N/A | | |
| D62PRV | N/A | | | | | | |

TABLE 4 - Item 3

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |
| HHCVN6 | Not Suitable | | | KMGDXH | N/A | | |
| HVW8C9 | | ✓ | ✓ | L8JLTT | | ✓ | ✓ |
| J22CTK | Not Suitable | | | LBKPLF | Not Suitable | | |
| J6YXCA | N/A | | | LCRZGJ | N/A | | |
| J92T36 | N/A | | | LCTWUA | N/A | | |
| J9G6RW | N/A | | | LGZGH7 | Not Suitable | | |
| JDTCT2 | Not Suitable | | | LH32WW | N/A | | |
| JDV4J | N/A | | | LP48F4 | N/A | | |
| JJ3JJ7 | Not Suitable | | | LTY4Y4 | N/A | | |
| JKXUQ3 | Not Suitable | | | M2ALEG | N/A | | |
| JL69VM | | | ✓ | MDEZZL | N/A | | |
| JLN22Q | Not Suitable | | | METJL6 | N/A | | |
| JNFXR7 | Not Suitable | | | MJQU84 | N/A | | |
| JRUQAY | N/A | | | MK2PVG | N/A | | |
| JTR49C | N/A | | | MK6B9P | Not Suitable | | |
| JYRL8W | | | ✓ | MMPC3B | Not Suitable | | |
| K22RLB | N/A | | | MQNJQU | Not Suitable | | |
| K2WDXP | Not Suitable | | | MTFDUP | Not Suitable | | |
| K3BYHC | N/A | | | MWZENC | Not Suitable | | |
| K7B64A | N/A | | | N7D3UU | N/A | | |
| KAU4DX | N/A | | | N9MW2F | N/A | | |
| KDUF9X | N/A | | | NDA9X | Not Suitable | | |
| KHLR29 | Not Suitable | | | NPC3DF | Not Suitable | | |
| KHP6TB | N/A | | | NQAD9J | N/A | | |
| KJEFQV | N/A | | | | | | |

TABLE 4 - Item 3

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |
| NQMZB6 | N/A | | | T8UQDK | N/A | | |
| NVHXQN | N/A | | | TBT8PE | | ✓ | |
| NWMGLB | N/A | | | TEUDYH | N/A | | |
| NYRC3T | N/A | | | TGL83E | Not Suitable | | |
| P94RLE | N/A | | | TJPYX8 | N/A | | |
| PAFAYT | N/A | | | TPVTUN | N/A | | |
| PFJB28 | N/A | | | TURD6Z | N/A | | |
| PJLAF8 | N/A | | | U9YZHM | | | ✓ |
| PKE4U3 | N/A | | | UAWBEP | N/A | | |
| PUXH2L | Not Suitable | | | UAYXXN | N/A | | |
| PXHKTR | N/A | | | ULPQ3Q | N/A | | |
| Q8KAXY | N/A | | | UNC7V8 | | | ✓ |
| QGXXEF | N/A | | | UPU4FJ | N/A | | |
| QQWR96 | N/A | | | UW8BP9 | | | ✓ |
| QR8NLW | Not Suitable | | | V2FULF | N/A | | |
| QVMB48 | N/A | | | V9EHYD | N/A | | |
| QYRRTY | Not Suitable | | | VF2FV2 | Not Suitable | | |
| QZ73YJ | N/A | | | WU2AF | Not Suitable | | |
| QZLKEA | N/A | | | WLNFE | Not Suitable | | |
| R6WWBB | N/A | | | WMELC6 | N/A | | |
| RA788B | N/A | | | WPJC6D | Not Suitable | | |
| RAAUKH | Not Suitable | | | WT9H3G | | ✓ | ✓ |
| RN2PLN | Not Suitable | | | WV9TQ4 | N/A | | |
| RQAWQ2 | | | ✓ | X38TPW | N/A | | |
| T8B6KU | Not Suitable | | | | | | |

TABLE 4 - Item 3

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |
| X4LZBD | N/A | | | | | | |
| X82ERT | Not Suitable | | | | | | |
| X8KB7D | N/A | | | | | | |
| XA6C2Z | Not Suitable | | | | | | |
| XEVXJL | | | ✓ | | | | |
| XFRC7E | | | ✓ | | | | |
| XG9AVX | N/A | | | | | | |
| XMBJY6 | Not Suitable | | | | | | |
| XWEMXM | | | ✓ | | | | |
| Y28ZKW | N/A | | | | | | |
| Y7MM39 | Not Suitable | | | | | | |
| YF7226 | N/A | | | | | | |
| YKDNJM | N/A | | | | | | |
| YLCQLX | Not Suitable | | | | | | |
| YNZ3B3 | N/A | | | | | | |
| YQT3HE | N/A | | | | | | |
| YTCBC8 | N/A | | | | | | |
| YUNYYT | N/A | | | | | | |
| YY6YN7 | Not Suitable | | | | | | |
| Z28CLX | N/A | | | | | | |
| Z9RFT2 | N/A | | | | | | |
| ZJ29Q7 | N/A | | | | | | |
| ZKXJMA | | | ✓ | | | | |
| ZLFFNA | Not Suitable | | | | | | |
| ZXMAUT | | ✓ | ✓ | | | | |

TABLE 4 - Item 3

| WebCode | First Level Pattern(s)? | | | WebCode | First Level Pattern(s)? | | |
|---------|-------------------------|------|-------|---------|-------------------------|------|-------|
| | Arch | Loop | Whorl | | Arch | Loop | Whorl |

| Item 3 - Pattern Response Summary | | | | | | Total Participants: 245 |
|--|------|------|-------|--------------|-----|-------------------------|
| 1st Level | Arch | Loop | Whorl | Not Suitable | N/A | |
| Total | 1 | 8 | 26 | 64 | 129 | |
| <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> | | | | | | |

Additional Comments

TABLE 5

| WebCode | Additional Comments |
|---------|---|
| 2F243T | The results apply to the items tested or data provided, as received. All relevant samples have been retained by the [Agency Name] as required by the Annotated Code of [State]. This report contains conclusions based on the interpretation and opinions of the below-signed author. This test is accredited under the laboratory's ISO/IEC 17025 accreditation for forensic testing, issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation |
| 2KE2F8 | Item 3 was received in a sealed envelope labeled with a sticker giving instructions to cut above said sticker. This was done according to directions; however, a small slice was made on the outer corner of quadrant B as the photo was not packaged low enough in the envelope to avoid damage per the test directions. |
| 3DRRAG | For item 3 a positive control test consisting of a tin with a sebaceous print was placed in the fuming chambers along with the glossy photograph. The positive control test print reacted positively to the CAE, to the magnetic powder post CAE and reacted positively with RAM and fluoresced after CAE and magnetic powder. Print on positive control test continued to developed through all processes. |
| 6FPZHP | The results apply to the items tested or data provided, as received. All relevant samples have been retained by the [Agency Name] as required by the Annotated Code of [State]. This report contains conclusions based on the interpretation and opinions of the below signed author. This test is accredited under the laboratory's ISO/IEC 17025 accreditation for forensic testing, issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation [Cert Number]. |
| 6GPULN | The glossy photograph (Item 3) seemed to be tightly inserted in the packaging material. I tried my best to avoid touching the packaging when removing, but due to the tightness, I don't know if I succeeded. |
| 6UAFKN | Item 1: the print was visualized but was very light |
| 7C6BRK | I initialed the evidence items and sealed them back in their original packaging. I included the photographed and lifted latent prints in the file, along with a copy of the testing data. |
| 82D9W3 | Friction ridges were not revealed, so their preservation was not necessary |
| AQBTX2 | In a real case, after working on the piece for the development of a fingerprint and not observing a fingerprint (no ridge detail was recovered), it is concluded that it did not develop a fingerprint. |
| AV99QH | There was not a print anywhere on Item 1 and there was barely a smudge (not even a fragment) on Item 3. Photograph paper also is not a great surface for fingerprints as most photograph paper is manufactured to not have prints adhere to it. I also do not believe photograph paper to be a great representative for semi-porous processing. I did a test on my own piece of photograph paper and it performed better using non-porous processing with rhodamine. |
| B2M8MG | In item 3 Fingerprint residue was observed in section A , but the ridge details was not clear. |
| BEAG82 | I found Item 1 to be interesting because I could see ridge detail with oblique light before I did any processing. I ran controls for each processing method like normal case work. My control for this item, using Ninhydrin, processed beautifully but I only developed a few faint ridges on the test paper. I felt like I could see more ridge detail with the oblique light before I did any processing. I think perhaps another chemical would have developed the ridge detail on the test item better, based on whatever the matrix is. My lab is slowly expanding to included more chemicals for porous processing. Item 3 had me boggled as I thought I developed very partial ridge detail in two sections. On further examination it was very sparse. It didn't fluoresce every well nor did I have any success lifting it. I am interested to see the official results for Item 3. |
| BFAKUP | Item 1- Very light pink signal, visible in Quad A. After DFO and viewed with blue laser. No fraction ridge skin impression discernable, though so nothing captured. |
| BX2UFY | Foster and Freeman DCS5 system incorporates a Nikon D800 camera with a Nikon 85mm PC-E lens for all but UV-R photography. White Crime-Lite 2 used alongside Crime-Lite 82S UV and Blue lights. Green Lazer is COHERENT Tracer Compact Lazer 532nm. Weiss ovens used for IND and NIN treatment. Foster and Freeman MCV5000 CNA cabinet used. |

TABLE 5

| WebCode | Additional Comments |
|---------|---|
| C3HBQG | Notes for Item 1: Prior to the visual exam, removal of the two pieces of clear tape on Item 1 was attempted. However, the two pieces of clear tape was left in place to prevent any damage to the item. For this reason, the adhesive side of the clear tape was not processed for latent prints. The two pieces of clear tape (non-adhesive side) was processed for latent prints sequentially. A medicine dropper was used to apply Rhodamine on the non-adhesive side of the pieces of clear tape. No other areas of the attached newsprint paper and cardboard were stained with Rhodamine. |
| CDY6VH | The results apply to the items tested or data provided, as received. All relevant samples have been retained by the [Agency Name] as required by the Annotated Code of [State]. This report contains conclusions based on the interpretation and opinions of the below signed author. This test is accredited under the laboratory's ISO/IEC 17025 accreditation for forensic testing, issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation [Cert Number]. |
| CL7XXX | In letter A of Item 3 Lofoscopic prints were revealed, however they are not useful for identification value |
| CUY4V6 | Test was quite difficult. special on a newsprint paper. Lot of problems with glossy photograph, surface very smooth. |
| CV2M7M | Chose N/A for pattern type because we do not assess L1 until the analysis stage; therefore, we would not be asked to determine pattern types during a latent print processing request. Although I developed ridge detail in Section C of Item 1 after both indanedione and ninhydrin, it was extremely faint and of low quality. I would not have documented this print in casework. The expectation with this PT is that a print be developed in one of the quadrants on each Item; therefore, I documented this ridge detail. I was surprised by the inherent fluorescent print in Section A of Item 3. I processed Item 3 with our typical workflow (visual exam, CAE, powder) with no development. My next step was going to be indanedione as it is a semi-porous item; however, I was concerned how the reagent and heat might affect the item. Thinking outside the box, as this is not in our normal workflow, I checked the item for inherent fluorescence, which produced a nice print. Therefore, I stopped my processing at this stage. |
| EAC3AU | As outlined in the Item 3 comments. I was able to visualize a whorl-type pattern in quadrant A after mag powder application. The powder did not seem to adhere to the impression; however, in oblique light, the print was observed. I tried several lighting combinations but could not find one suitable to preserve the friction ridge detail I observed. I proceeded with processing and the friction ridge detail was not observed post-R6G application and ALS examination. |
| ER64P6 | When the test materials arrived to the lab, the surface of Item 3 was stuck to the inside of the package material and was difficult to get out. |
| EW7WBP | The results apply to the items tested or data provided, as received. All relevant samples have been retained by the [Agency Name] as required by the Annotated Code of [State]. This report contains conclusions based on the interpretation and opinions of the below signed author. This test is accredited under the laboratory's ISO/IEC 17025 accreditation for forensic testing, issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation [Cert Number]. |
| FT2LWZ | After using crystals of iodine, ninhydrin, graphite powder and cyanoacrylate, fingerprint fragments were developed in evidence pieces 2 and 3. In part two fingerprint fragment is developed in quadrant B and in evidence piece 3 fingerprint fragment is developed in quadrant D. |
| FY8D8J | Prior to processing Item 3, test prints were deposited on a similar substrate to create multiple test strips. The test strips were processed using cyanoacrylate fuming (CF), black powder, magnetic black powder, Ardrex (A), aqueous Ardrex (Aq-A), Rhodamine (R), and aqueous Rhodamine (Aq-R). The test prints developed as expected, and the best results were obtained using CF, magnetic black powder, Aq-R, and Aq-A. Those techniques were therefore used to process Item 3. Because of the potential dual nature of the substrate, Item 3 was also processed with Ninhydrin (N) at the end of the processing sequence. This case work was conducted while I was under 100% review, so all processing, examinations, and conclusions were observed and/or confirmed by another competent analyst. |
| G4Y9YG | The fingerprints on the Items 1 and 2 were very weak and required repeated application of development methods (DFO and Cyanoacrylate fuming respectively) while the control fingerprints on the analogous surfaces were being developed much quicker and with more clarity. The reason for failing to develop any fingerprints on the Item 3 unknown. The chemicals were tested prior to the |

TABLE 5

| WebCode | Additional Comments |
|---------|--|
| | application on the surface of the Item 3. |
| GA332P | No friction ridge detail was developed on Item 3 after all suitable processing techniques were applied. |
| GEFTLY | All processes were carried out using security equipment to avoid altering, contaminating or destroying the pieces of evidence. Iodine crystals, Ninhydrin reagent, black graphite powder, cyanoacrylate fast-drying adhesive were used. Development was observed in piece of evidence number 2 in quadrant B. In pieces of evidence 1 and 3 these did not develop papillary ridges in quadrants that read A, B, C, D. |
| GNMMHD | The latent prints on the newsprint paper was very poorly applied. It was super light and barely reacted to any chemical development. |
| J92T36 | I conducted three controls, two prior to and one concurrently, with the glossy photograph (item 3). All three controls were positive for prints. No prints were developed on the item. |
| JRUQAY | No ridge detail was recovered/item not suitable for determination. |
| JW8HN7 | The latent from item 1, section C, was a tip impression with insufficient detail in the core to determine pattern type. It also had very weak development, although my control test had very strong development. There was not even a smudge on item 3. |
| K2WDXP | The development of Item 3 was not successful. Cyanoacrylat fuming was made two times and after that powder dusting, but both with no result. |
| KHP6TB | Item 3 was in a kraft manila envelope with metallic lining. I feel that this packaging was very tight and may have inadvertently destroyed any prints that may have been left. |
| KMGDXH | The results apply to the items tested or data provided, as received. All relevant samples have been retained by the [Agency Name] as required by the Annotated Code of [State]. This report contains conclusions based on the interpretation and opinions of the below signed author. This test is accredited under the laboratory's ISO/IEC 17025 accreditation for forensic testing, issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation [Cert Number]. |
| LGZGH7 | In item 3, no lofoscopic fragment was found. |
| LP48F4 | Item 1 - nil development due to a chemical issue. Item 2 - print found in box B. Item 3 - nil development was observed after using the sequences. |
| MQNJQU | After having used the reagents and chemicals such as: iodine crystals, ninhydrin, cyanoacrylate, graphite powder and magnetic graphic powder, it was possible to develop fragments of fingerprints in pieces of evidence number 2 and number 3, plastic switch plate and photograph on glossy paper, respectively. In piece of evidence number 2, he developed a fingerprint fragment in section B and in piece of evidence number 3, he developed a fingerprint fragment in section C. |
| MTFDUP | Fragments of ridge detail on Item 3; wouldn't be of value for case work. |
| N9MW2F | On item 3 absolutely no ridge details were visible after the application of the different methods. Although on similar surfaces fingerprints were easily detected. I doubt that there has been a fingerprint applied on this item. |
| NYRC3T | Positive and negative controls were used on all reagents prior to testing evidence samples. All reagents functioned as expected. |
| PAFAYT | After having worked on the evidence described above and the tests were carried out where only in the piece of evidence number 2 letter B, it was possible to lift a fragment of the fingerprint and in the piece of evidence number 3 letter D, an impression was developed fingerprint, but it could not be lifted. |
| QQWR96 | No ridge detail was observed on item 3. Further sequential steps were not used. Dye stains are used for enhancement and there was no ridge detail observed to enhance. The VMD was not used because our VMD is currently not operational. |
| RAAUKH | Item 1: Friction ridge detail that was developed in section C is faint and appears to be the area above the pattern (towards the tip of a finger) No discernible pattern has been observed. Item 2: Even though the impression and the pattern type were discernible at each step of processing, due to the slight texture of the item, the item was processed with dye stain (R6G) and was photographed under ALS |

TABLE 5

| WebCode | Additional Comments |
|---------|---|
| | @515nm + orange barrier filter, in order to obtain the best possible ridge detail for comparison purposes. Item 3: Since no friction ridge detail was initially observed or developed on Item 3 (sub-itemized by an examiner as item 1C) on 10/26/2022, the item was left in the CA fume hood for an extended period of time. The item was re-evaluated and was further processed on 12/06/2022, resulting in no ridge detail being developed. |
| T9RA8Y | the ridge detail developed on the paper (item 1) is outside the pattern area so a pattern type could not be determined. |
| TJPYX8 | Item 3: No fingermark was developed even after performing various methods, including VMD. We asked ourselves if there was a problem with the deposited fingermark (due to deposition or potential deterioration due to shipping ?). We would like to try another item if this would be possible, and we would appreciate if you could give us more details on this matter. |
| TURD6Z | Item 1 - Newsprint Paper only had ridge detail visible (faintly) after the Ninhydrin processing step and no RD was found during the Indandione step which is uncharacteristic. The ridge detail developed during the Ninhydrin step was very faint and mostly consisted of an apparent tip area of a finger - the core area did not develop if it was present. Item 3 - not a single ridge could be found on the photograph at any point during the processing. |
| U9YZHM | In each examination process, "Control" samples were used, which gave positive results |
| V9EHYD | Is very strange no developed fingerprints in item 3 |
| VF2FV2 | Item 3 detail looks like a swipe mark that may or may not be ridge detail |
| VWU2AF | On Item 3: Glossy photograph We haven't seen any latent fingerprints. To visualize latent fingerprints We use a standard procedure applicable in our laboratory. |
| WLNFE | Newspaper - Insufficient ridge detail observed in the "C" quadrant. Unable to determine pattern classification of impression due to low quality and quantity of detail present. Glossy Photograph - No friction ridge detail was observed during the entire process of the item. Item was scanned and image was opened in photoshop after VMD processing. After some contrast/brightness levels utilized, there appears to be something similar to friction ridge detail in the "C" quadrant; however, examiner is not confident in calling it insufficient ridge detail in the "C" quadrant. Maybe artifacts or substrate background that were observed. |
| WPJC6D | There were no fingerprints revealed in item 1, nither item 3. |
| WV9TQ4 | Item #3 was originally improperly packaged and stuck in envelope seal |
| X82ERT | FSIS was not used in this processing, due to the equipment being inoperable at this time. |
| XA6CZZ | Ridge detail was initially observed on item 1 the piece of paper, but quickly faded upon observation. The control used during this test was positive. I am unsure if there was something wrong with that item. |
| XG9AVX | Item #3 (glossy photograph) was packaged inside a sealed envelope with a smooth metallic interior. The envelope appeared to be too small for the item and the smooth surface against the glossy photograph could possibly create friction and destroy any possible ridge detail that was present. I would recommend packing all items in a basic manila envelope like item #2 (outlet cover). |
| XMBJY6 | On item 3, ridge detail was recovered from a second print that crossed over Quadrant B and Quadrant A |
| Y7MM39 | For CTS exhibit 3, there was no friction ridge detail observed. |
| YQT3HE | After having worked on the pieces of evidence described above with the purpose of identifying the development of fingerprinting. This process was executed through the use of different methods and products previously selected based on the piece of evidence to be work on. As a result of my intervention, item 2 was the only one that returned a positive latent fingerprint. |
| Z28CLX | Item 1 did not yield any friction ridge detail. Proper sequential processing was done, and control test administered in accordance with our policies and procedures. Item 3 did not yield any friction ridge detail. However, there was a small smudge at the left edge of quadrant C and a large smudge at the |

TABLE 5

| WebCode | Additional Comments |
|---------|---|
| | bottom right edge of quadrant D. Proper processing was done, and control tests administered in accordance with our policies and procedures. |

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 22-5191: Latent Print Processing - Varied Surfaces

DATA MUST BE SUBMITTED BY **Dec. 12, 2022, 11:59 p.m. EST** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: JM7HAJ

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 September 12, 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 LAP2):

Item 1: Newsprint Paper, divided into sections A-D.

Item 2: Plastic switch plate, divided into sections A-D.

Item 3: Glossy photograph, 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:

Newsprint Paper, 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:

Plastic switch plate, 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:

Glossy photograph, 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)