



Questioned Documents Examination Test No. 15-521 Summary Report

This test was sent to 257 participants. Each sample pack consisted of a notepad recovered from one of the suspected students (K1) and a threatening note left on the victim's car (Q1). Participants were requested to analyze the questioned note to determine if it could have originated from the recovered notepad. Data were returned from 205 participants (80% response rate) 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 set contained two items: Item Q1, a threatening note found on a bullied student's car windshield, and Item K1, a notepad recovered from the suspect. The note was left for a bullied student after weeks of verbal harassment from a group of several students. Participants were requested to examine the items and determine if the note could have originated from the recovered notepad.

SAMPLE PREPARATION-

The notepads were reviewed for quality issues before production, and those with manufacturing defects were removed. A black chisel tip Sharpie marker was used to mark a line along the bottom edge of the notepad pages. The Q1 note author opened to the fourth page of the notepad and handprinted "I WILL KILL YOU" in capital letters, utilizing a black Papermate medium tip ballpoint pen. A list of school assignments was written by the Q1 note author, using the same pen on the third blank page following the threatening note. The note and subsequent two blank pages were removed from the notepad by creasing and tearing them along a metal straightedge ruler. The blank pages were discarded.

SAMPLE SET ASSEMBLY-

After quality reviews were complete, the Q1 note was packaged into its item envelope between two pieces of chipboard and sealed with clear tape. The K1 notepad was packaged into its item envelope and sealed with clear tape. Each coordinating pair was placed into a pre-labeled sample set envelope. Following predistribution testing, each envelope was sealed with evidence tape and initialed "CTS."

VERIFICATION-

Predistribution examiners confirmed that the Q1 threatening note could have originated from the K1 recovered notepad. This was supported by the following observations: fracture match between the torn edge of the Q1 note and the torn edge of one of the remnants remaining inside the K1 notepad, indented writing from the Q1 note found on one of the pages inside the K1 notepad, and similarities in ink characteristics between the Q1 note and the handwriting in the K1 notepad.

Summary Comments

Each sample set consisted of two items - a threatening note left for the victim (Q1) and a notepad recovered from a suspect (K1). The victim claims that the note was left after several weeks of verbal harassment by a group of students at his school. The document Q1 originated from the notepad K1 (Refer to the Manufacturer's Information for preparation details).

For question 1, "Could the questioned note (Q1) have originated from (was once a part of) the notepad (K1) recovered from one of the suspected students?", 99% of participants reported that the questioned note originated ("A", 197 participants) or probably originated ("B", 6 participants) from the recovered notepad. One participant could not identify or eliminate if the questioned note originated from the recovered notepad ("C"). The remaining one participant reported that the questioned note did not originate from the recovered notepad ("E"); however, this participant's written conclusions (Table 3) appear to state the opposite.

A majority of participants provided the following observations to support their claim that the Q1 questioned note originated from the K1 recovered notepad: a fracture match was made between the Q1 note edge and a torn paper fragment still attached within the K1 notepad; indented writing of the text from the Q1 note was recovered on some of the pages within the K1 notepad; and a black ink mark on the Q1 note aligned with a black ink mark located along the edge of the K1 notepad. Some participants also observed that the fluorescent reactions of the paper and ink from the Q1 note and the K1 notepad were the same. Some also noted that the size and line ruling of the Q1 note was the same as the pages in the K1 notepad. Participants could make no determinations regarding the handwriting comparison between the written threat on Q1 and the written assignments found in K1, as the letters and print techniques were not comparable. Therefore, no determinations were made as to whether the author of the written assignments in K1 was also the author of the Q1 note.

Examination Results

Could the questioned note (Q1) have originated from (was once a part of) the notepad (K1) recovered from one of the suspected students?

Response Key:

- A. The questioned note ORIGINATED from the recovered notepad.
- B. The questioned note PROBABLY ORIGINATED from the recovered notepad.
- C. Cannot be IDENTIFIED or ELIMINATED.
- D. The questioned note PROBABLY DID NOT ORIGINATE from the recovered notepad.
- E. The questioned note DID NOT ORIGINATE from the recovered notepad.

TABLE 1

| WebCode | Q1 | WebCode | Q1 | WebCode | Q1 |
|---------|----|---------|----|---------|----|
| 23GPRR | A | 4TGG8P | A | 83HYFX | A |
| 247VA3 | A | 4U96E7 | B | 87WBZZ | A |
| 2B8TRK | A | 699PPN | A | 89YR7M | A |
| 2VUKPV | A | 6BXXW4 | A | 8B8J4P | A |
| 32H4DQ | A | 6CBREP | A | 8E3ACM | A |
| 3788B2 | A | 6D279N | A | 8FLW7X | A |
| 3BLNMR | A | 6D7PVQ | A | 8P3BXJ | A |
| 3JXF2B | A | 6GHV8R | A | 8RV4XA | A |
| 3QYV74 | A | 6LX6JA | A | 8WBRFK | A |
| 3ZLNZU | A | 6R323A | A | 9HMLNX | A |
| 428R77 | A | 73HWRE | A | 9L3UAB | A |
| 42GUCY | A | 74DGJK | A | 9LK33C | A |
| 46TYNY | A | 7A22MZ | A | 9T24DZ | A |
| 4GLXH6 | A | 7LFYUP | A | A6QX8N | A |
| 4L4LAA | A | 7QMM8Q | A | AA6BBW | A |
| 4MCAG8 | A | 7VEUPY | A | AGAKQH | A |
| 4QC7X8 | A | 7VZBYA | A | AGQN9G | A |
| 4RLVGJ | A | 7ZCQKE | A | AYK2L3 | A |

TABLE 1

| WebCode | Q1 | WebCode | Q1 | WebCode | Q1 |
|---------|----|---------|----|---------|----|
| B2TFT9 | A | DJJYLD | A | GKNKVN | A |
| B7L2VA | A | DJYDXU | A | GPGKAJ | A |
| BD4DNG | A | DM2B9M | A | GQPAPV | A |
| BHUH78 | A | DMM4CZ | A | GV4E3A | A |
| BJ9CY8 | A | DXHFK8 | A | GWXV7E | A |
| BPXUDH | A | EBKNWZ | A | H32YUR | A |
| BVHH2F | A | ED9U2C | A | HCR8AT | A |
| C7GZ7U | A | EH98FH | A | HFNQBR | A |
| C8QMM3 | A | EQG7MY | A | HRGDGM | A |
| CAVDUG | A | EQGDZ8 | A | J2GW39 | A |
| CAWHHJ | A | F37WRH | A | J9LGMT | A |
| CCPLWC | B | F3RV3F | A | JLRRW2 | A |
| CDZ4FG | A | F3TQM7 | A | JNWK7K | A |
| CJPTRE | B | F42EV4 | A | JRZD24 | A |
| CLRURC | A | F4XHFJ | A | K84AWM | A |
| CT4767 | A | F8H8YW | A | KABUDV | A |
| CWU3FN | A | FB28B7 | A | KYNVK6 | A |
| CZDWJG | A | FDN2UR | A | KZNU4D | A |
| CZV78B | A | FDN4JW | A | L34P23 | B |
| D4A8PZ | A | FJTPPE | A | L43NJB | A |
| DBQJ42 | A | FLH4ZA | A | L7RU3L | A |
| DDXWPA | A | FXW26E | A | LHL92H | A |
| DHA4QD | A | G2TANE | A | LTVMPW | A |
| DHNDV8 | A | GCBNRG | A | LUERHA | A |

TABLE 1

| WebCode | Q1 | WebCode | Q1 | WebCode | Q1 |
|---------|----|---------|----|---------|----|
| M2ATZU | A | R7QM6G | A | VU4M34 | A |
| MEEB92 | A | RAQGWB | A | WADVJX | B |
| MFRGCD | B | RFVRRX | A | WJXUXM | A |
| MGMZFY | A | RJDFMG | A | WNVLHZ | A |
| MHY8QZ | E | RJX7RV | A | WPLHTR | A |
| NADVP4 | A | RKM6UE | A | WQYGYH | A |
| NBPZE9 | A | RZM8R8 | A | WZNT9U | A |
| NC6KHX | A | T2T9RW | A | X383WL | A |
| NERXP2 | A | TCTHW9 | A | X7KJWX | A |
| NHQE3V | A | THDE6B | A | X8GZ9U | A |
| NVZHJG | A | TJ8ZWG | A | XGQP4Y | A |
| P8B68V | A | TKNKZ6 | A | XGRKPQ | A |
| PB6LLP | A | TNL2BE | A | XTK44V | A |
| Q9F6WU | A | TUATE2 | A | XZ3LFH | A |
| QBQ3AC | A | TZHLKD | A | Y69E8T | A |
| QGEKTU | A | U9LN9M | A | YEUTUV | A |
| QL3CUV | A | UKKC9X | A | YK4WWQ | A |
| QMJGCU | A | V8CWZ8 | A | YMQ6XY | A |
| QPLJYB | A | VAUDTC | A | YN3924 | A |
| QV9P27 | A | VAUR9C | A | YWZXKT | A |
| R2T2FY | A | VC26TY | A | YZF8CK | A |
| R2TRE8 | A | VF2DYU | A | Z2MKXR | A |
| R3CFYM | A | VLMCP3 | C | Z2Q4KV | A |
| R4XFUW | A | VM3WTR | A | Z4BGGX | A |

TABLE 1

| WebCode | Q1 | WebCode | Q1 | WebCode | Q1 |
|---------|----|---------|----|---------|----|
| Z62GZ9 | A | | | | |
| Z7J9EY | A | | | | |
| Z8QNJK | A | | | | |
| ZBUGGP | A | | | | |
| ZF6X7Y | A | | | | |
| ZQRWYP | A | | | | |
| ZXPN3C | A | | | | |

| Response Summary | | Total Participants: 205 |
|--|-----|--------------------------------|
| <i>Could the questioned note (Q1) have originated from (was once a part of) the notepad (K1) recovered from one of the suspected students?</i> | | |
| Response | Q1 | |
| A | 197 | |
| B | 6 | |
| C | 1 | |
| D | 0 | |
| E | 1 | |

Response Key:

- A. The questioned note ORIGINATED from the recovered notepad.
- B. The questioned note PROBABLY ORIGINATED from the recovered notepad.
- C. Cannot be IDENTIFIED or ELIMINATED.
- D. The questioned note PROBABLY DID NOT ORIGINATE from the recovered notepad.
- E. The questioned note DID NOT ORIGINATE from the recovered notepad.

Methods and Observations

What methods/techniques did you utilize? What observations were made from each method/technique?

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| 23GPRR | microscopic – macroscopic | It identified: Address of the fibers. Border irregularity. Pairing the preprinted (row lines) |
| 23GPRR | video spectral comparator | nks[sic] analysis: Mail[sic] at the wavelength of 695 nm, the inks of manuscripts entered in the threat and those found in the notebook. in the spectrum of the infrared 695 nm. |
| 247VA3 | ESDA-2 Electrostatic Detector Apparatus | The document was humidified and then placed on o[sic] porous, electrically earthed platen to draw it pump[sic]. It was then covered over with a length of thin, transparent imaging film and negative electrical charge was deposited onto the upper surface of the imaging film using corona wand. The electrostatic image is developed and made visible by applying negatively-charged black toner powder to the imaging film and the ESDA image was made permanent by laminating the film with a sheet of adhesive fixing film. The indentations of the writing "I WILL KILL YOU" was recovered from the notepad page of "K1". |
| 247VA3 | VSC-400 Video Spectral Comparator | Using the flood light and side light from the VSC, the ink spot found on the note "Q1" was found to be consistent with the ink spot on the notepad "K1". |
| 2B8TRK | Method: Note, describe, compare, conclude | Observed, described and compare general aspects and particularities element of dude and the findings are evaluated to conclude.[sic] |
| 2B8TRK | TECNIC[sic]: Macro and microscopy | Is based on detailed observation of the particular applying different magnification using direct, oblique illumination[sic], and ground. |
| 2VUKPV | macroscopic | There is a small black mark on the bottom of the questioned item and a black line on the bottom of the known item, both appear to be from a black marker; the mark on the questioned item is consistent in location with the location of the black line on the known item. |
| 2VUKPV | indented writing/ESDA | Indentations from the questioned item were found on the known item. |
| 2VUKPV | fracture match | The fracture pattern from the questioned item is consistent with a remaining piece of spiral bound paper in the known item. |
| 32H4DQ | ESDA | The examination reveals traces of a hand written text (I WILL KILL YOU) on K1. |
| 32H4DQ | VSC | To determine optical differences in paper and inks. |
| 3788B2 | Visual | Similar size, color, lines, line spacing etc. |
| 3788B2 | Microscopic | Tear appears to correspond, printing defects similar |
| 3788B2 | Scanner/image editing software | Printing defects similar |
| 3788B2 | Oblique Light | Knife marks from production same |
| 3788B2 | VSC | Similar fluorescent fibers no differences in ink/paper |
| 3788B2 | Indented writing | Text developed |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| 3BLNMR | Electrostatic Detection | The indented writing of one page of the notepad corresponds to the questioned note. |
| 3BLNMR | Microscopic Comparision | The cutting edge of the questioned note physically matches the remain[sic] fragmental note of the notepad. |
| 3JXF2B | ESDA Ref: 49 | Indented writing "I will kill" found on the note marked as "Q1" was also found on the note pad marked as "K1". |
| 3JXF2B | VSC 60001488 (side light) | Indented writing "I will kill" found on the note marked as "Q1" was also found on the note pad marked as "K1" |
| 3JXF2B | VSC 6000 Ref: 1488 (floods light) | The physical match between the edge of the threatening note marked as "Q1" and the left margin inside the note pad marked as "K1" have been observed. |
| 3JXF2B | VSC6000 Ref: 1488 (UV light) | The same paper reaction between the edge of the threatening note marked as "Q1" and the left margin inside the note pad marked as "K1" have been observed |
| 3QYV74 | Macroscopic* | The general qualities of the Q note paper agree w/ the exemplar notebook. The book contains 3 page remnants. The questioned pg, has a black ink mark @ the bottom edge. This mark was in agreement w/ similar marks that stripe across the bottom of the book. |
| 3QYV74 | Oblique Lighting | The questioned note and pages #7 & 8 in the exemplar notebook were examined for visible indentations. Pages 7 & 8 did exhibit indentations. |
| 3QYV74 | ESDA (EDD) | Exam of questioned did not reveal impressions of discernible significance. The 2 pages immediately following remnants, i.e. pages 7 & 8 bore impressions from the writing on the questioned note. |
| 3QYV74 | Infrared Energy | The questioned note paper and the paper in the notebook were examined. These papers contain fibers and particles that luminesce under IR. The Q torn edge had a few areas where a torn luminescent fiber was in placement agreement on either side of remnant 4 and the Q1 edge. There was one such area of agreement w/ Q1 and remnant 5. The ink stripe at the bottom edge border was compared between Q1 and stripe on pages 7 and 8 of the notebook exhibit the same optical reaction. |
| 3QYV74 | Stereo microscope and varying degrees of magnification on VSC | The Q1 torn edge details were examined and compared with each of the remnants in the exemplar. Although there was some general agreement between the size and slant of the tear on the Q and the E remnants, only the page remnant number 4 matched with sufficient agreement to support that they were at one time attached. |
| 3QYV74 | *Binding-spiral wire | *Subsequent to the initial evaluation of the Q1 and exemplar notebook, the spiral binding was removed in order to conduct comprehensive examinations of the notebook pages & remnant features regarding impression evidence & alternate light examinations. |
| 3ZLNZU | Stereo Microscope[sic] | No visible result noted from lighting and magnification. |
| 3ZLNZU | VSC 400 | Revealed paper all the same and fluoresces under UV. Side lighting revealed slight indentations of writing on the same specimen. Tear marks of "Q" aligns with "K1". |
| 3ZLNZU | Macroscopic examination | "Q" has the same mark made by a marker along the side which is consistent with all the pages on "K1" |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| 3ZLNZU | ESDA | Revealed indentations from previous page "I WILL KILL YOU" Humidifier used, Results all positive |
| 428R77 | VSC-6000: Magnification and Food[sic] light | Physical Match of paper fibres: Three (3) paper fragments inside note pad marked by myself "K1.1", "K1.2" and "K1.3". Paper fragment marked "K1.1" physically match with Paper fragment marked "Q1". |
| 428R77 | VSC-6000: Magnification and Food[sic] light | Physical Match of paper fibres: Three (3) paper fragments inside note pad marked by myself "K1.1", "K1.2" and "K1.3". Paper fragment marked "K1.2" does not physically match with Paper fragment marked "Q1". |
| 428R77 | VSC-6000: Magnification and Food[sic] light | Physical Match of paper fibres: Three (3) paper fragments inside note pad marked by myself "K1.1", "K1.2" and "K1.3". Paper fragment marked "K1.3" does not physically match with Paper fragment marked "Q1". |
| 428R77 | VSC-6000: Magnification and Food[sic]Light | Surface markings: Black mark at the bottom edge of paper fragment marked "Q1" is perfectly align with other black marks on other pages of the note pad. |
| 428R77 | ESDA-2: Electrostatic | Indented writing: The page after paper fragment marked "K1.3" is marked "K1.4". Deciphered words on the page marked "K1.4" are "I WILL KILL YOU". |
| 42GUCY | Microscopic | Background print: No significant differences were observed nor significant findings made that would lead to the conclusion that the questioned note could not originate from the notepad. Physical fit of questioned note and notepad: A good physical fit of the cutting edge between the questioned note and the first cutted[sic] page of the notepad was observed. |
| 42GUCY | Indented writing (oblique light) | In the notepad, on the page following the cutted[sic] edges, indented impressions were observed. The indented impressions were found to match with the markings on the questioned note; - the position of the indented impressions in relation to the offset printed lines equals the position of the pen written markings in relation to the offset printed lines - the shape and size of the indented impressions equals the pen written markings on the questioned note |
| 42GUCY | Ink examination (visual and infrared) | A pen stroke on the edge of the notepad was observed. This stroke has resulted in an ink trace on each of the pages of the notepad. No significant differences were observed when comparing the ink trace on the questioned note with the ink traces on the pages of the notepad. |
| 42GUCY | Micrometer examination | The average thickness of the questioned note is 0,06 mm, which equals the average thickness of the pages of the notepad. |
| 42GUCY | Examination under UV and transmitted light | The look through appearance and fluoresence[sic] of the questioned note and the pages of the notepad were compared. No significant differences were observed nor significant findings made that would lead to the conclusion that the questioned note could not originate from the notepad. |
| 46TYNY | Indented Writing Examination | Q1 and the K1 notebook were examined with oblique lighting and with an ESDA 2. The impressions recovered in the K1 notebook (pages K1-7 through K1-9), were sourced to Q1 and read: "I WILL KILL YOU". |
| 46TYNY | Paper Comparison (VSC 6000) | The class characteristics such as color, hue, and ultraviolet responses are similar. In addition individual characteristics such as fracture pattern and paper fibers observed with IR examinations reveal that Q1 and K1-4 were at one time joined together. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| 46TYNY | Ink Examination - (Micro/Macro VSC 6000) | The written entries on Q1 and K1-7 were not able to be differentiated at this level of examination. |
| 46TYNY | Writing Examination | The questioned writing on Q1 can neither be identified, nor eliminated with the known writing on K1-7. The questioned writing and the known writing do not consist of the same uppercase/lowercase letters or letter combinations and are not comparable. |
| 4GLXH6 | Microscopy | For magnification observation of the torn paper fibres using incident light illumination. A comparison of the torn fibers found at "Q1" revealed that it align and physically match the piece of the torn page marked as "K1c", thus "Q1" was torn from "K1". |
| 4GLXH6 | Electrostatic detection with the ESDA 2 | Applied to the page contained in "K1" marked as "K1a" for the detection of latent indentations. Indentations of the words "I WILL KILL YOU" was revealed on the page marked as "K1a". |
| 4GLXH6 | Side (oblique) lighting with the VSC6000 | Applied for the detection of indentations, however only limited and unclear indentations were revealed. The result obtained was inconclusive. |
| 4GLXH6 | Physical fibre match comparison | Of the pieces of the torn pages found in "K1", marked by myself as "K1b"; "K1c"; "K1d" and the torn edge of "Q1". The edge of the note marked as "Q1" aligned and physically match the piece of the torn page marked as "K1c", thus "Q1" was torn from "K1". |
| 4GLXH6 | Exact match comparison | The latent indentations revealed on "K1a" were compared to the writing contained on "Q1" and revealed to be an exact match, thus the indentations observed in "K1a" were created by the handwriting produced on the note marked as "Q1". |
| 4L4LAA | micro/macrosopic | Used the camera of the VSC6000/HS to magnify the tear pattern and paper fibers of Q1 compared to the tear pattern and paper fibers of the 3 partial pieces of paper still attached to K1 |
| 4L4LAA | indented writing | Used an ESDA 2 to process the page of K1 that contained inked writing for indented writing. The handwritten note on Q1 appears as indented writing on this page of K1. |
| 4L4LAA | UV | Using the UV settings available on the VSC6000/HS, no differences were noted between the Q1 and K1 papers. |
| 4L4LAA | visual | The small apparent black marker spot on the edge of Q1 is in alignment with the black markings on the edge of K1. |
| 4L4LAA | ink comparison | Using the IR spot settings on the VSC6000/HS, no differences were noted between the ink on the Q1 note and the handwritten inked entry in K1. |
| 4MCAG8 | Video Spectral Comparator (VSC): flood light | The questioned note "Q1" physically matches with the remaining part (left margin) of the torn off note from the note pad "k1" |
| 4MCAG8 | Video Spectrum Comparator (VSC): oblique light | Indented writing of the words "I WILL" which originated from "Q1" was observed on the note pad "k1" |
| 4MCAG8 | (ESDA) electrostatic detection apparatus | Indented writing of the words "I WILL KILL YOU" which were written on the note in question "Q1" was detected on the note pad "k1" |
| 4QC7X8 | Physical fit (microscopic) | A physical fit was established between the questioned note, item Q1 and the 4th page (upper most torn fragment) of the notepad, item K1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| 4QC7X8 | ESDA/Oblique Lighting | No indentations were detected on the questioned note, item Q1. No indentations were detected on the pages either side of the torn fragments and the remaining pages of the notepad, item K1. |
| 4QC7X8 | Infra red reflectance and Infra red luminescence | No differences were detected between the inks used to create the entries appearing on the questioned note, item Q1, and the notepad, item K1. |
| 4QC7X8 | IRL (VSC 6000) | A tear line match was established by visualizing fluorescent paper fiber inclusions in the questioned note, item Q1, and the 4th page (upper most torn fragment) of the notepad, item K1. |
| 4QC7X8 | Visual | A black fluid ink mark was observed on the bottom edge of the questioned document, item Q1, which was consistent with the fluid ink line running underneath all the pages of the notepad, item K1. |
| 4RLVGJ | Microscopic examination | Microscopic examination revealed a paper tear pattern match which showed that the Q1 sheet of paper was torn from the K1 notebook. |
| 4RLVGJ | UV examination of the papers | The Q1 sheet of paper was compared to the paper in the K1 notebook as to their response to UV optical brighteners of the paper. The Q1 and K1 papers did not reveal any differences in their responses to differing UV lights. |
| 4RLVGJ | Infrared examination | Infrared comparisons of the preprinted ruled lines of the Q1 and K1 papers responded the same to infrared analyses. |
| 4RLVGJ | ESDA | ESDA exam revealed that the handwritten threatening message "I WILL KILL YOU" on the Q1 piece of paper was indented onto the sheet of paper still attached in the K1 notebook bearing the visible handwriting of "3/2/15 Math: #1-25 #30-35 English: p. 16-88 worksheet". |
| 4TGG8P | visual examination | The line structure is the same on the questioned note and the attached notepad. The questioned note consists unique page marker (black) on the bottom edge and the notepad contains the same features. |
| 4TGG8P | optical examination (microscopy) | The questioned note absolutely paired with the first remained notepad page. |
| 4TGG8P | optical examination (video spectral comparator) | The threatening text is visible on the notepad page which contains the other black handwritten words under oblique light (side light). The substrate of the notepad and the note is the same, they have the same optical features. |
| 4U96E7 | Magnifying Eye Peace[sic] | Is a device that magnifies details on the written paper. Of which when you apply its lights source adjacent to the paper shadows of indentation "I WILL KILL YOU" was observed. |
| 4U96E7 | VSC6000 Side lights left and right | Indentations of the note "I WILL KILL YOU" was observed and even using the composite lighting. |
| 4U96E7 | VSC6000 UV Lighting | The reaction under UV light react the same. |
| 4U96E7 | VSC6000 Flood Lighting | Physical match of paper fibres of the note pad and of one of the page structural tearing are the same. |
| 4U96E7 | VSC6000 Filters[sic] band pass | The ink dot mark at the bottom of the "I WILL KILL YOU" note is the same ink dot mark at the bottom of note pad. |
| 699PPN | VSC | For Fracture pattern and paper fiber examination |
| 699PPN | ESDA, side lighting | Enhance indented writing observed with side light |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|------------------------------------|---|
| 699PPN | Microscopic | Examination of handwriting on note |
| 6BXXW4 | microscope | [No observations reported.] |
| 6BXXW4 | VSC 6000 | [No observations reported.] |
| 6BXXW4 | ESDA2 | [No observations reported.] |
| 6CBREP | Visual Examination | Q1 has a handprinted message in black ink "I WILL KILL YOU", the document appears to be torn on the left side, could be from a notepad. K1 is a notepad with the 4th, 5th and 6th pages down all missing (torn out), the 7th page down has a handprinted message "3/2/15, Math....Worksheet" |
| 6CBREP | Oblique Lighting | Q1 is Negative for Indented writing. K1 is positive for indented writing. |
| 6CBREP | Leica M60 | Q1 has the handprinted message pressure going through the document and being seen on the reverse side. K1 has pages 4, 5 and 6 down torn out of the notepad. |
| 6CBREP | VSC 6000/HS | Q1 has a handprinted message that was performed with a natural flow and good pen pressure. K1 is positive for indented writing with the alignment to be very similar to the handprinted message on Q1. |
| 6D279N | Use the method Signalético[sic] | The method comprises the following steps: Observation or inspection. Description or pointing out its features. Confrontation of concurrences or differences, and judgment of identity. |
| 6D279N | Macroscopic. | Comparison (juxtaposition) of the edges of the three tabs contained in the notebook against the edges of the sheet edges doubt taking into account, notches, fibers of the substrate, as is the case of the lines on the sheet; among other features. Whose observation and comparison I throw the result that was taken or became part of the first tab shown in notepad.[sic] |
| 6D279N | Light. | Fluorescencia[sic] Infrared. throwing behavior as the substrate fibers and content (stripes or rows) in general. With oblique light was seen in the second sheet of the ductus book or grooves contained in the written question. [sic] |
| 6D279N | Inks. | By scanning at different wavelengths doubt sheet and those contained in the book, the same behavior of the content in general, as well as the willing or vertical line drawn at the bottom can be seen.[sic] |
| 6D7PVQ | Electrost[sic] Detection Apparatus | 1. Document was humidified in the humidifier after which it was placed on top of a grounded porous platen, beneath a thin sheet of Mylar (Imaging Film). The document was then charged and the image was developed using cascade. The toner particles are attracted to the imaging film corresponding to areas of localized disturbance (indentations) in the paper. |
| 6D7PVQ | Video Spectral Comparator | Using side-light: Firstly the document was placed in a dark environment (inside the instrument). Light was propagated at angles less than forty-five degrees to the document. Indentations were visible and a photo thereof were taken. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| 6GHV8R | Macroscopic examination | The size of the pages and printed lines on Q1 and K1 were measured and compared and found to [sic] of the same size. A black mark at the bottom of "Q" was identified. A similar mark appears on all the pages of the note book. The size and position of the marks on "Q" and "K1" were found to be the same. |
| 6GHV8R | Indented writing | The notebook (K1) and document in question (Q1) were subjected to an electrostatic process using the ESDA2 and oblique lighting in order to identify and decipher any indented writing that may occur. The examination revealed no indentations of the questioned wording in the notebook (K1) and no indentations[sic] were identified on the document in question (Q1). Only indentations of the writing occurring[sic] on 4th page in the notebook was identified on subsequent pages. The evidence suggests that the page in question (Q) was removed from the note book prior to the writing in question being effected thereon. |
| 6GHV8R | Ultraviolet (paper differences) | The notebook and document in question were subjected to an ultraviolet examination in order to determine if they react differently. It was found that both the pages in the notebook and document in question react the same when subjected to UV indicating no differences in respect of their UV characteristics. |
| 6GHV8R | Microscopy (physical match) | The notebook revealed that at least 3 pages had been cut/torn from it (between the current 1st and 4th pages). The cut/tear marks on the remnants of pages in the notebook and that of Q1 were examined microscopically and were found to match those of the 3rd piece in K1. |
| 6GHV8R | Ink examination (non-destructive) | An IR examination between the ink on the current 4th page of K1 and that on Q1 was conducted. |
| 6LX6JA | VSC 6000, Flood light | A physical match was observed. "Q1" physically matches with the remaining part (left margin) of the first torn off note from the note pad "k1". |
| 6LX6JA | VSC 6000, Oblique light-indentations | Indented writing of some of the letters ("W&I") from "Q1" was observed on "K1". |
| 6LX6JA | ESDA2, cascade developer | Indented writing of the the[sic] words "I WILL KILL YOU" written on questioned note "Q1" was detected on the note pad "K1" |
| 6R323A | VSC-6000, flood light | Examination of "Q1" and "K1" for physical matching, the threatening note matches with the note pad on the left margin. |
| 6R323A | VSC-6000, side light (right) | There are indentations on the document marked "K1" indicating that "Q1" was removed from the notepad. |
| 6R323A | VSC-6000, flood light and Alter filter | The black line on the edge of the document marked "Q1" and the black line on the edges of the document marked "K1" indicates that they were written with the same writing instrument. |
| 6R323A | Electrostatic Detection Apparatus | There are indentations on the document marked "K1" indicating that "Q1" was removed from the notepad .t[sic] |
| 73HWRE | Oblique Light | Some indented marks that match with others in the notepad. |
| 73HWRE | UV/NIR Luminiscense[sic] | Paper and ink responses are identical |
| 73HWRE | Macroscopic Comparison | The micro characteristics of the broken side in the questioned paper match with the ones of the notepad. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| 74DGJK | Microscope (Initial assessment) | Determined that the writing was original. Noted print process of lines. Observed printing characteristics. Noted mark on bottom of page. Noted left torn edge of Q1. |
| 74DGJK | Oblique light source | Examined Q1 and all K1 pages for indented writing. |
| 74DGJK | ESDA | Examined Q1 and K1 page 7 for indented writing. |
| 74DGJK | VSC | Compared torn edge of Q1 to K1 partial pages. |
| 74DGJK | Ruler | Measured dimensions of Q1 and K1. |
| 7A22MZ | Visual exam of Q1 | Noted what is believed to be a printing defect located on the bottom right edge of the paper. Appears to have been cut from a notepad possibly with scissors as the cut was very neatly done. Handwriting written with black ink and in all caps. |
| 7A22MZ | Visual exam of K1 | Noted that notepad consist of numerous pages and contains remnants from 3 pages that were removed. A page that was not removed, but contained handwriting was also written in black ink. |
| 7A22MZ | Examination of Q1 and K1 using ultraviolet light | No optical differences noted. |
| 7A22MZ | microscopic exam of Q1 and K1 | 3 pages of remnants probably cut at the same time from the notepad. Noted fractures of edges of the 3 remnants and compared them to the fractures on edges of Q1. The top remnant appears to match that of Q1. There was also one fiber that appears to match. |
| 7A22MZ | Paper thickness of Q1 and K1 | Both measured .003 inches. |
| 7A22MZ | ink exam of handwriting on Q1 and K1.4 | No optical differences noted. |
| 7A22MZ | esda examination of Q1 and K1.4 | Indentations from Q1 appear on K1.4. No indentations were found on Q1. |
| 7LFYUP | Stereoscopic microscope | [No observations reported.] |
| 7QMM8Q | Physical | Measured thickness of Q1 sample and K1 paper by micrometer; Comparative transparencies analysis of sample Q1 and K1; specific elements in sample Q1 and K1. |
| 7QMM8Q | Chemical | Fiber analysis from the sample of Q1 and K1 was prepared from cellulose pulp. Subsequently pulp was prepared by chemical tools. |
| 7QMM8Q | Microscope Nikon Eclipse 80/C1 with confocall[sic] elements | Analysis edge of the paper Q1 sample and paper's fragment in notepad after tear a page from K1; microscopic observation was focused on the sample of paper Q1 and on the fragments of the edges destroyed during tearing out; Analysis of paper's structure for sample Q1 and K1. |
| 7QMM8Q | VSC 5000 Video Spectro[sic] Comparator | Comparison of handwriting of sample Q1 and the punch holes in paper's in sample K1. |
| 7QMM8Q | UV | Analysis of paper fluorecence for Q1 and K1. |
| 7QMM8Q | Ramman[sic] Spectroscopy | Comparative analysis of ink of ballpoint pen used in writing sample Q1 and K1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| 7VEUPY | Oblique Light | none |
| 7VEUPY | ESDA | Indented writing from Q1 document found on K1d document. |
| 7VEUPY | Microscopic | Physical match between Q1 document and K1a document |
| 7VEUPY | Microscopic | Fiber match between Q1 document and K1a document |
| 7VEUPY | UV | K & Q documents show similar UV characteristics. |
| 7VEUPY | Visual | Similar marks at bottom of Q & K documents |
| 7VEUPY | VSC | IR fiber comparison, Ink comparison video microscope (microscope above) fibers matchup, inks similar |
| 7VZBYA | microscopic/macrosopic (Leica MZ16, Leica DM ILM, Docucenter Expert Projectina) | Coincidence of the edge of paper' break line. Coincidence of black ink line on end side of the notepad and the sheet (same position) |
| 7VZBYA | Metric measurements of paper | The same paper size (given deformation). |
| 7VZBYA | Visual ink and paper examination (Docucenter Expert Projectina) - NIR Luminiscence[sic], reflected IR, VIS, UV | Visually, the same ink have been used for handwriting. Visually, the same ink have been used for horizontal line printing. Visually, the same ink on the lower end side of the notepad and the sheet. Paper sheet and notepad' paper are visually the same. |
| 7VZBYA | Examination of Indented Impressions (ESDA2, Oblique VIS and NIR lighth[sic]) | Indented impressions of handwritten[sic] text "I Will KILL YOU" were found on notepad sheet with text "3/2/15 Math: ... workseet[sic]". |
| 7VZBYA | Comparison technique (Docucenter Expert Projectina) | The positive overlay of the text "I Will KILL YOU" and its indented impressions. |
| 7ZCQKE | Macroscopic Examination | Compared the torn edge of Q1 to the partially torn pages in K1 (K1-P4 through K1-P6). Noted size and color of Q1 and pages in K1. |
| 7ZCQKE | Microscopic Examination | Compared the torn edges of Q1 to torn edges on K1-P4 through K1-P6. Fracture match between Q1 and K1-P4 (visible fibers). |
| 7ZCQKE | Video Spectral Comparator (VSC 6000) | Side-lighting examination of Q1 and K1 pages. Visible indentations on multiple pages in K1. Fracture match between Q1 and K1-P4 (IRR, IRL, and UV examination). |
| 7ZCQKE | Electrostatic Detection Apparatus | Indentations were developed on K1-P7 through K1-P11. Original writing on Q1 was determined to be the source of the indentations on K1 pages. |
| 7ZCQKE | X-ray Fluorescence Spectroscopy | Q1 and K1-P4 were chemically indistinguishable. |
| 7ZCQKE | Thin-layer Chromatography | Q1 and K1-P4 were chemically indistinguishable. |
| 83HYFX | VSC - oblique lighting | Indented writing on the seventh page of the notebook, matching most of the letters in the note Q1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|-----------------------------------|---|
| 83HYFX | VSC-micro/macro | Matching of the tear line between the note Q1 and the uppermost strip in the notepad K1 (page 4) |
| 83HYFX | VSC-transmitted light | matching of the tear lines as above. |
| 83HYFX | VSC-spot light | The ink on the note Q1 was not found to be different from the writing ink on the seventh page of the notepad K1. |
| 83HYFX | Macroscopic | On the edge of the note Q1 there is a black ink stain in the same location as the ink stain on the edge of the notepad K1. |
| 83HYFX | ESDA (electrostatic) | Indented writing originating in the note Q1, was found on the seventh page of the notepad K1. |
| 87WBZZ | VSC 6000 (Flood Light) | Physical matching of Q1 to K1. When Q1 (under VSC flood light) is overlaid to K1 (under VSC side lights the words "I WILL KILL YOU" fit accurately on the indentation on K1. |
| 87WBZZ | VSC 6000 (Side Light) | This light source revealed the indentations on K1 (The words "I WILL KILL YOU") |
| 87WBZZ | VSC 6000 (UV Light) | UV light revealed that both Q1 and K1 papers have the same UV features as they are both UV bright. |
| 87WBZZ | ESDA 2 | This technique revealed the indentations on K1 (The words "I WILL KILL YOU") which is the same wording as on the questioned note. |
| 89YR7M | Visual and microscopic inspection | Q1&K1: The text was written with a ball-point-pen with black ink. Shape of paper substrate and background-printing (ruling) are not distinguishable. No differences between paper-substrate of Q1 and K1 detectable by transmitted and incident light. |
| 89YR7M | Fluorescence 366nm | Q1 & K1: highly fluorescent |
| 89YR7M | Indented marks by ESDA | In K1 the indented text "I WILL KILL YOU" was detected on the sheet with the visible handwritten text "3/2/15..... worksheet". The position of the text on the paper-sheet as well as the whole text was congruent in all details with the text on the paper-sheet with the handwritten text on Q1. |
| 89YR7M | Handwriting comparison | Not applicable because the text in K1 and on Q1 have only one comparable letter (k) in common. |
| 8B8J4P | Microscopic | Examination of paper torn edges was positively matched using higher level magnification. |
| 8B8J4P | U.V light | Analyze and imaging the fluorescence properties of paper, excited by examination with U.V light. |
| 8B8J4P | Transmitted light | Examination with transmitted light to determine the randomness of the paper fibers, which is an identifying characteristic that makes fiber designs unique to paper sample. |
| 8B8J4P | Oblique Light | Examination with low-angle to view evidential writing indentation |
| 8B8J4P | ESDA | Produced an evidential record of the writing impressions which are present upon a page, resulting from previous pages of over-writing notepad recovered from one of the suspected students. The ESDA is very sensitive and may record over-writing impressions which passed through several pages. |
| 8E3ACM | 12 in ruler | Length & width of Q1 and K1 leaves |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| 8E3ACM | Counting | No. of leaves and stubs in K1 |
| 8E3ACM | Micrometer screw gauge | Thickness of Q1 and K1 leaves. |
| 8E3ACM | Unaided eye with Normal, Transmitted and Oblique Light | General appearance of Q1 and K1 leaves; detection of indented writing. |
| 8E3ACM | Low-Power Optical Microscope | Microscopic appearance of Q1 and K1 leaves and the printed lines on them. Details of torn edges of Q1 and the three stubs in K1. |
| 8E3ACM | Electrostatic Detection | Used on fronts and backs of Q1 and two leaves of K1 to detect indentations and embossings. |
| 8E3ACM | Preparation of photocopy transparency of Q1 | To assist comparison of Q1 writing with ESDA images of indented writing and spatial relationship of each with edges of leaves. |
| 8E3ACM | ESDA image from the back of Q1, reversed and laid onto ESDA image of front of K1 leaf. | To assist comparison of writing of Q1 with indentations and spatial relationship of each with edges of the leaf. |
| 8FLW7X | VSC 6000-Physical[sic] Match Flood light | When analyzing "K1" and "Q1" using flood light of VSC 6000 I have observed that: markings A-E on the edges of "K1", Physically matches the markings on A-E on the edges of "Q1". The dot marked "f" on K1 physically match the dot marked "f" on "Q1". |
| 8FLW7X | VSC 6000-Indentations Side Light | When analyzing "K1" using side light of VSC 6000 I have observed that letters "I", "W", "I" appear as indentations from the sentence "I WILL KILL". |
| 8P3BXJ | ESDA | Impressions of handwriting on note found within pad |
| 8P3BXJ | Visual Examination | Small black ink mark on bottom edge aligns with black ink line on bottom edge of pad. |
| 8P3BXJ | Microscopic Examination | Physical fit between torn edge of note and torn edge of fragment of page within notepad. |
| 8RV4XA | Initial review | Q-1: 3 1/2 by 5 1/2 inch lined piece of paper with hand-printing "I WILL KILL YOU". Readily observable convexities on the back of the page, created by the writing pressure. With the writing correct, the left side of the paper presents a tear pattern, while the other 3 sides are manufactory cuts/finished. A small black mark (possibly ink) on the bottom edge; approximately 2 1/2 inches from the left edge. 17 evenly spaced printed lines starting 5/8 inch from the top. K-1 (notepad): Spiral notepad containing full pages similar in size (except width) and description as Q-1. The beginning of the notepad presents 3 full pages, followed by 3 partial pages (1/2 inch wide and secured to the metal spiral), then additional full pages. The 4th full page (directly after the 3 partial pages) contains writing dated 3/2/15. There are no additional partial pages or pages containing writing. A black (possibly ink) line is present on the bottom edge of the entire notepad; on all the current pages. |
| 8RV4XA | side light | Q-1: No discernable impressions observed. K-1 (Notepad): The 4th full page (the 1st page after the 3 partial pages) contains observable impressions on hand-printing similar to that presented on Q-1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| 8RV4XA | Indented writing Electro Static Detection Apparatus | K-1 (notepad): The face of the 4th page was processed with the ESDA and partial impressions of the writing on Q-1 were developed. These impressions overlay 1:1 with the writing on Q-1 and are direct impressions. The ESDA impressions are broken where they intersect with the original ink writing on page 4; therefore, the impressions were created on page 4 prior to the writing. |
| 8RV4XA | Microscopic Examinations (tear pattern Q-1 with partial pages in K-1) | The tear pattern and the fiber overlays are consistent between Q-1 and the 1st partial page in K-1 (notepad). The tear pattern and paper fiber overlays are different between Q-1 and the 2nd & 3rd partial pages in K-1 (notepad). |
| 8WBRFK | Microscopic Examination | The printed lines on the note Q1 are manufactured in the same distance, colour and width of lines in comparison to the line pattern of the pages in the notepad K1. In the notepad there are three fragments of torn out former pages. The position of the black mark on the lower edge of the note (Q1) and the marks of the knife of a cutting machine on the edges of Q1 correlate with those on the pages in the notepad. Furthermore [sic] was detected, that the structure of the torn edges of the note Q1 and the upper fragment in the notepad fit together like an adapter. |
| 8WBRFK | Examination in the NIR-/UV-range | The questioned papers (Q1 and K1) show no different or significant results in their physical characteristics of inks and paper. |
| 8WBRFK | Casting with tangential light | The upper page in the notebook K1 with the handwriting "2/2/15[sic] Math: #1-25 #30-35 English: p. 16-88 worksheet" on it shows faint traces of characters similar to the text on Q1. |
| 9HMLNX | VSC-oblique light | Indentations of writing "I WILL KILL YOU" appeared on the recovered notepad (K1). |
| 9HMLNX | VSC-flood/white light | The altered portion of the notepad (K1) physically matched with the questioned note (Q1). |
| 9HMLNX | VSC-white light | Similar mark (a dot) made by a writing instrument is observed both on the notepad (K1) and the note (Q1). |
| 9L3UAB | ESDA2 | A technique used to detect writing indentations in paper. Indentations of the writing "I WII KILL YOU" were observed on the notepad. |
| 9L3UAB | VSC6000 (using side lights) | Indentations of the writing "I WILL KILL YOU" was observed on the notepad. |
| 9L3UAB | VSC6000 (Flood Light) | Physical Match: The threatening note and Notepad (torn part) match under flood light. |
| 9L3UAB | VSC6000 (UV Light) | The threatening note and Notepad (torn part) react the same. |
| 9L3UAB | VSC6000-(Transmitte[sic] Light) | Superimposed: The writings "I WILL KILL YOU" of the threatening note fit accurately with the indentations on the notepad. |
| 9LK33C | Method for documents examination | [No observations reported.] |
| 9LK33C | Microscopy technique | [No observations reported.] |
| 9LK33C | Infrared spectroscopy technique | [No observations reported.] |
| 9LK33C | Technique of oblique intended[sic] writing | [No observations reported.] |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| 9LK33C | Technique of electrostatic imaging system for detecting indented writing (ESDA-LITE) | [No observations reported.] |
| 9T24DZ | Indented Impression Examination | Q1: no decipherable indented impressions developed on the note. K1, page 4: The following decipherable, indented impressions developed on the lift from page 4 in the K1 notebook: I WILL KILL YOU |
| 9T24DZ | Macroscopic Examination | Q1 and K1 share the following class characteristics: white paper with visible yellow fibers throughout; approximately 5 7/16" high; printed grey, horizontal lines approximately 9/32" apart; and a spot of black ink along the bottom edge of the page, approximately 1" from right edge |
| 9T24DZ | Microscopic Examination | The torn edge on the Q1 note was compared to the torn edges on the three stubs in the K1 notebook. The stubs were labeled a, b, and c. Upon microscopic examination, it was determined that the Q1 note was at one time connected to stub labeled 'a' from K1. |
| A6QX8N | Visual comparison | Dimensions, horizontal lines of K1 and Q1 are the same. The black stain (mark) on the bottom of Q1 corresponds to the stains (marks) on K1 (bottom). |
| A6QX8N | Microscopic | Similar paper fibers (some yellow) on Q1 and K1. Small torn part of paper in K1 (first of all three) corresponds to the torn part of Q1. |
| A6QX8N | UV – 365nm, 312nm, 254nm | No differences in paper between Q1 and K1. |
| A6QX8N | IR – luminescence | No differences in luminescence of ink on Q1 and K1. |
| A6QX8N | Indented writing | Oblique and electrostatic (ESDA). On the paper with written text in the notepad there is indented writing of the text from Q1. |
| AA6BBW | VSC-6000 Ref:1200 | Magnification and sidelight for indentations, indentations were not clear under VSC |
| AA6BBW | VSC-6000 Ref:1200 | Spot light for physical match at the edge of the paper which was evident on the left margin. |
| AA6BBW | ESDA Ref:03 | Indentations were evident after using the ESDA (electrostatic deflection[sic] apparatus) written words "I WILL KILL YOU" were evident on the plain note pad. Therefore writing found on the threatening note is also found on the note pad. |
| AGAKQH | Microscopic examination of writing on Q1 and K1-4 | original black ink; appears to be ballpen ink |
| AGAKQH | VSC examination | inks on Q1 and K1-4 have similar reflected IR and IR absorbance characteristics; no latent luminescent writing on paper |
| AGAKQH | UV examination of paper | all sheets examined have bluish white mottled appearance |
| AGAKQH | Physical examination of notebook | pages measure 3 31/32" x 5 13/32", each page/stub has 17 holes and 17 ruled lines; page count is 37 pages in the first two dividers, 38 in each of the others; 150 pages (full or partial) present; black fluid ink line across bottom of pages about 1" from right edge |
| AGAKQH | ESDA indented writing | Q1 writing left indentations[sic] on K1-4 and K1-5 (latter faint); K1-4 writing left indentations on K1-5 and K1-6 (latter faint) |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| AGAKQH | Fracture match visual | Q1 and K1-1 appear to match; Q1 and K1-2, K1-3 do not appear to match |
| AGAKQH | Fracture match using Keyence digital microscope | Q1 and K1-1 are a match by virtue of shape of tear, match of ruled lines and match of several fibers from one side to the other |
| AGQN9G | ESDA | Positive. Indented writing of item Q1 note found in item K1 notepad. |
| AGQN9G | Torn edge examination (microscopic & VSC) | Positive. Item Q1 note at one time attached to item K1 page 4 based on fracture pattern and fiber crossings. |
| AGQN9G | Physicals (macroscopic) | Item Q1 and item K1 consistent in size and design. Black ink mark on item Q1 consistent (location and color) with ink line marking on page edges of item K1. |
| AYK2L3 | Light sources, i.e. Side lighting and Flood light | Indented impression that look like a shadowgraph reading "I WILL KILL YOU" was observed from notepad "K1". |
| AYK2L3 | Electrostatic Detection Apparatus | Indentation text reading "I WILL KILL YOU" was deciphered from notepad "K1" |
| AYK2L3 | Handwriting comparison | Handwriting on the threatening note "Q1" has the similar individual handwriting characteristics and are identical as that of indentation text deciphered from the notepad "K1". |
| AYK2L3 | Visual Examination | Three pages were cut off from notepad "Q1[sic]". |
| AYK2L3 | Physical match of papers | Edge to edge realignment between threatening note "Q1" and remaining piece of cut page revealed that the fractures from note "Q1" matches the fractures from notepad "K1" piece of paper. The surface marking on the threatening note "Q1" and one of the remaining piece of cut page matches the surface marking on the notepad "K1" piece of paper. |
| AYK2L3 | Magnification | A fine details of the sentence "I WILL KILL YOU" was observed from "Q1" and indented impression deciphered from notepad "K1". |
| B2TFT9 | Visual Spectral Comparator (VSC) - flood light | There is a physical match between "item Q1" and one of the pages removed from "item K1". |
| B2TFT9 | Visual spectral Comparator (VSC) - side light | Indentations/impressions writing on 'item K1' that shows 'item Q1' was written on top of 'item K1' when removed. |
| B2TFT9 | Electrostatic Detection Apparatus (ESDA) | The indentation writing "I WILL KILL YOU" appears on 'item K1' which is the same as the wording on the threatening note 'item Q1' |
| B7L2VA | Macroscopic and microscopic | With transmitted light, UV light, and different filters it was observed the same transparency and opacity in the threatening note's paper (Q1) and the recovered notepa's[sic] paper (K1).There is compatibility between the fibers and the lines of the threatening note's paper (Q1) and the recovered notepad's paper (K1). |
| B7L2VA | Comparison techniques | It was observed a perfect match in the left border of the threatening note's paper (Q1) and the right border of the first paper residue of the recovered notepad (K1). |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| BD4DNG | Indented writing (electrostatic) | Using Electrostatic Detection Apparatus (ESDA) - Indented impression of handwriting reading "I WILL KILL YOU" was observed on the handwritten page of the notepad (K1). No indented impression of handwriting was observed on the threatening note (Q1). |
| BD4DNG | Comparison techniques | Comparison techniques using Video Spectral Comparator (VSC 6000/HR) - the ruled lines on the page of the threatening note (Q1) in line and matched with the ruled lines of the three torn pages and the untorn pages of the notepad (K1). |
| BD4DNG | Microscopic (comparison) | Comparison techniques using Video Camera Microscope (VCM/HR) - the perforated irregular torn edges page of the threatening note (Q1) mechanically fit with the perforated irregular torn edges page of the 1st torn page of the notepad (K1). |
| BD4DNG | Instrumental analysis (measurement) | Instrumental analysis using micrometer screw gauge - the page thickness of the threatening note (Q1) was approximately of the same thickness with the pages of the notepad (K1). |
| BD4DNG | Physical examination (visual) | Both the threatening note (Q1) and the notepad (K1) have inked marked[sic] at the bottom base of the pages. |
| BHUH78 | VSC 6000 - Flood Light | Physical match with first torn page in note pad and note. No match found with other two torn pages in note pad. |
| BHUH78 | ESDA 2 - Electrostatic detection | Indented writing " I WILL KILL YOU" that originated from the note appears on the first page after the torn pages in the note pad. |
| BJ9CY8 | ESDA 2 | An instrument that renders the intended writing visible and provides a record of the writing, the writing "I WILL KILL YOU" appears visible on the notepad marked "K1". |
| BJ9CY8 | VSC6000-side light | In which a light source is passed over the sheet of paper at an oblique angle, the writing "I WILL KILL YOU" is visible on the notepad marked "K1". |
| BJ9CY8 | VSC6000-side light (r) | The two items marked "K1" and "Q1" were superimposed and the writings "I WILL KILL YOU" match. |
| BJ9CY8 | VSC6000-flood light | Physical match: The item marked "Q1" were physically match with the torn part of the item marked "K1" |
| BJ9CY8 | VSC6000 UV- light | UV reaction of K1 (torn part) and Q1 physical match: The paper of item marked "K1" reacts the same with the paper of the torn part of item marked "Q1". |
| BPXUDH | Stereomicroscope | Paper examination: paper density and fiber types (comparison Q1+K1). Paper edges for torn pattern (Q1 + 3 remaining torn pages in K1). Printing process of lines (Q1+K1). |
| BPXUDH | Video spectral comparator / Luminescence | Fracture match of edges and fibers examination |
| BPXUDH | Video spectral comparator / Side Lighting | Indentations |
| BPXUDH | Photoshop | Indentation overlay. Fracture match of edges. |
| BPXUDH | Ruler | Page dimensions. Line spacing / margin. Distance of black ink spot at bottom of pages from the right margin (comparison Q1+K1). |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| BVHH2F | direct observation | Leaf certainly is similar in size and design to the leaves of the book. , presents a mechanical, and irregular cut on the left side, the book presents three tabs with irregular cuts. Presnta sheet doubt a mark of ink on the bottom right, the leaves of the book presented in the same area a parallel line drawn in ink. [sic] |
| BVHH2F | microscopic observation | The mechanical cutting irregular presents the left side of the page certainly coincides with the cutting of the tabs presented by the book, (just above). [sic] |
| BVHH2F | grazing lighting | Using the technique of grazing light, seen in a handwritten sheet of notebook, some deep strokes that match the structure of the word (i will), which is corroborated by observing the sheet doubt and handwritten notepad sheet by overlapping technique . |
| C7GZ7U | Stereomicroscope LEICA MZ95 | Examined paper fibers using the stereomicroscope. Found multiple paper fibers that crossed from the note to the perforated edges. |
| C7GZ7U | VSC 6000 HS | Examined paper fibers under IR Luminescence. |
| C7GZ7U | Visual | Visual reconstruction of the questioned document to the known notepad. |
| C7GZ7U | Electrostatic ESDA 2 | Questioned entry was found indented on the 4th intact page from the known notepad. |
| C8QMM3 | Magnification and Flood light | Edges on the left margin of the note matches with those of the notepad on the right. |
| C8QMM3 | Magnification and Oblique light | Indentations of the words I WILL KILL YOU were observed on some of the pages of the notepad. |
| C8QMM3 | ESDA | Indentations of the words I WILL KILL YOU were observed on some of the pages of the notepad. |
| CAVDUG | Macroscopic | Same colour of paper between Q1 and K1. Paper size: Same height between that of Q1 and K1. Black mark at the bottom right of Q1 was also found at that of the K1 (in which one single black stroke written from the first page down to its back hard cover of K1). |
| CAVDUG | Indented writing (ESDA & oblique light) | No indented writings detected on the paper beneath the three torn pages in K1. |
| CAVDUG | Microscopic | Physical fit of torn edges between the first torn paper in K1 (the fourth page in K1) and Q1. No physical fit of torn edges between the second and third torn papers (the fifth and sixth pages in K1) and Q1. The same paper defect found on Q1 and K1 on their right margins. |
| CAVDUG | VSC5000 | Under transmitted light: Physical fit of torn edges between the first torn paper in K1 (fourth page in K1) and Q1. The printed lines on both sides of Q1 and K1 matched at their torn edges. |
| CAVDUG | VSC5000 | Under UV light: Both Q1 and K1 (paper) fluoresced but their inks did not. |
| CAVDUG | VSC5000 | Under IR luminescence (spot lamp): Luminescent paper fibers that matched across the torn edges between the first torn paper in K1 (fourth page in K1) and Q1 have been found on several places along the torn/cut. |
| CAWHHJ | ESDA | The questioned note (Q1) was written while in the K1 notepad. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| CAWHHJ | Video Spectral Comparator | Magnification on normal light shows gross tear pattern match to uppermost of the three remaining stubs in the notebook. Use if[sic] IR Luminescence shows many luminescent fibers in the paper, some of which have been transected when the Q1 page was removed from the book. |
| CCPLWC | microscope/VSC - zoom | similar tear pattern along left hand side of Q1 and three 'stubs' in the notepad |
| CCPLWC | visual/VSC | Ink mark on right of bottom edge aligns with marking on notepad pages and no difference in the ink |
| CCPLWC | Visual | Q1 plus 'stub' same size and type of paper as in notepad |
| CDZ4FG | Stereomicroscope, hand lens | The torn edge on the left side of Q1 aligns with the right torn edge of the top partial piece of notepaper, K1, (labeled 4 in the sequence of pages in the notebook.) |
| CDZ4FG | UV, Transmitted Light Box, White light, Oblique light | Under UV long and short wave light, Q1 and K1 showed similar fluorescence. On the transmitted light box, similar opacity was noted in Q1 and K1. Under white light, a slight vertical crease was noted on right side of the notepapers Q1 and K1. Oblique light did not yield viable results. |
| CDZ4FG | Ruler, Fowler Euro-Caliper IV Micrometer | Q1 and K1 measures the same in length and width, space between horizontal lines, headers, footers, paper thickness, location of black ink mark on the bottom of the paper. |
| CDZ4FG | Electrostatic Detection Apparatus (ESDA) | K1 Page 7 (numbered in the sequence of pages in the notebook), containing hand printing, was processed with positive results. Words became visualized that were consistent with words on Q1. |
| CJPTRE | VSC6000 | oblique light |
| CJPTRE | microscope | magnifying, cutting plane comparison |
| CLRURC | Mechanical Fitting of Torn Pages | The threatening note (Q1) originated from the notepad (K1). Specifically, the notepad contains three intact pages leading into the notepad, followed by three removed pages, followed by another intact page with numerals and hand printing: "3/2/15 Math: #1-25..." The three removed pages appear to have been removed by means of a straight edge placed against the pages and torn (as opposed to being cut with a sharp-edged instrument). Of the three removed pages, left side page remnants remain affixed the notepad's spiral wire binding. Q1 was once part of the topmost page remnant. Both that remnant and Q1 mechanically fit precisely. |
| CLRURC | Stereoscopic Magnification | The exactness of the mechanical fit was readily apparent by means of stereoscopic magnification. |
| CLRURC | Oblique Lighting & Electrostatic Imaging System | The hand printing on Q1, "I WILL KILL YOU" is indented onto the intact page with numerals and hand printing (cf. above), which following the three removed pages. Furthermore, by means of oblique lighting and electrostatic imaging, latent writing indentations from Q1 are also visible on the intact page with numerals and hand printing, and the two pages below that page. |
| CT4767 | Microscopic Exam | Inks, paper, guillotine blade marks consistent between Q1 and K1 |
| CT4767 | VSC (IRL, IRR) | Ink entries, ink mark along edge consistent. Luminescent paper fibers matched between Q1 and K1, paper consistent between Q1 & K1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| CT4767 | UV Exam | Paper consistent between Q1 & K1. |
| CT4767 | ESDA | Indentations of writing on Q1 found on a page of K1. |
| CT4767 | Macroscopic Exam | Physical characteristics of Q1 consistent with pages of K1. |
| CT4767 | Torn edge exam | Q1 consistent with being torn out using a straight edge, Q1 matched to pattern of tear on a remnant in K1. |
| CT4767 | Oblique Light | Visible[sic] indentations from Q1 on a page of K1 |
| CT4767 | Handwriting comparison | No conclusion, handwriting is not sufficiently comparable. |
| CWU3FN | microscopic/macroscopic | Similarities between the Q1 sheet and the sheets in the K1 notepad; Similarities between the ink on Q1 and the ink on one of the sheets in the K1 notepad; similarities between a dark extraneous mark along the lower edge of Q1 and on the sheets in the K1 notepad; Similarities between the torn edge of Q1 and the torn edge of one of the tabs in the K1 notepad; presence of yellowish paper fibers that bridged the torn edge of Q1 with that same torn tab in the Item K1 notepad. |
| CWU3FN | indented writing (oblique light and ESDA) | Recovered indentations of the Q1 writing from two sheets in the K1 notepad. |
| CWU3FN | instrumental (VSC-6000) | Located numerous luminescent paper fibers that bridged the torn edges of Q1 and that same torn tab in the K1 notepad; checked reactions of the ink on Q1 against the ink on one of the sheets from K1 and found no differences. |
| CZDWJG | Crime-Lite 80L | Side light illumination to observe torn edge detail. |
| CZDWJG | VSC 6000 | Magnification and contrast enhancement to observe torn edge detail. |
| CZDWJG | Light box | Background transmitted light to observe torn edge detail. |
| CZDWJG | ESDA | Indented writing observed using the Electrostatic Detection Apparatus. |
| CZV78B | Visual/Microscopic | Q1 was written with black ball point pen. K1g was written with black ball point pen. Q1 was written with medium speed and pressure. K1g was written with medium speed and pressure. |
| CZV78B | Digital Imaging | Imaged in Foray Q1, K1, ESDA lift K1g front, and Physical Match (K1d to Q1). |
| CZV78B | Indented Writing Visual | Visually Examined Q1 (front and back) and K1a-g (front and back) for indented writing impressions using oblique/side lighting. No visual impressions of value were found. |
| CZV78B | Indented writing/ESDA (Electrosatic[sic] Detection Apparatus) | Processed Q1 (front and back) for indented writing impressions utilizing the ESDA. (+) no value. Processed K1a-c (front and back) for indented writing impressions utilizing the ESDA. (+) no value. Processed K1g-i (front and back) for indented writing impressions utilizing the ESDA. K1g-h (+) of value (front and back). Processed K1i (front and back) for indented writing impressions utilizing the ESDA. K1g-h (+) no value. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| CZV78B | Visual/Microscopic | Examined the questioned fractured item (Q1) and known fractured items (K1d-f). Compared Q1 to K1d-f to determine if there is congruity of class/individual characteristics between Q1 and K1d-f. Evaluated and found class/individual characteristics between Q1 and K1d. *white lined small note pad paper *realignment of lines *realignment of tear pattern *interfitting of fibers |
| CZV78B | Database Search | Q1 was searched through the current Criminal Letter Database of the Police Laboratory's Questioned Documents Unit. Q1 can not be associated to any previously submitted case. |
| D4A8PZ | ESDA | On the handwritten page of the notepad we found the indentation of the writing: «I WILL KILL YOU» figuring on Q1. This indentation found on this page is perfectly superimposable to the writing of Q1 |
| D4A8PZ | Keyence Macro | Macroscopic and microscopic observations let us to find two different physical matches between the first detached page of Q-1 and the written page of the notepad; 1. The same cutting irregularities along the common vertical axis; 2. At about 42 to 45 mm from the bottom left side two same yellow fibres |
| DBQJ42 | Indented writing (electrostatic) | Observations made when electrostatically examining the first page, after the remains of torn out pages, in the notebook K1: Indented writing corresponding to the writing on the note Q1. Corresponding size, shape and position of the text as well as corresponding specific details. |
| DBQJ42 | Comparison (microscopic) | Observations made when comparing the note Q1 with the first of the three remains of torn out pages in the notebook K1: Matching general look and "shape" of the torn edges. - Broken paper fibres matching across the tear. |
| DBQJ42 | Comparison (infrared) | Observations made when comparing the note Q1 with the first of the three remains of torn out pages in the notebook K1: Broken paper fibres matching across the tear, even more visible using infrared. |
| DBQJ42 | Comparison (microscopic) | Observations made when comparing the note Q1 with the first page, after the remains of torn out pages, in the notebook K1: Ink from black line drawn across the bottom of the notebook K1 corresponding in size and position. |
| DDXWPA | Visual and microscopic exam using the unaided eye and the stereo microscope. Observations are as follows: | Q-1: Lined paper; Top edge of page measures ~3, 7/16th inches, bottom edge ~ 3, 5/16th inches; Left and right edges measure ~ 5 1/2 inches; torn left edge; Lines are a grayish black color: 17 total, printed on the front and back; Top margin measures ~ 3/4 inch; Interline spacing measures ~ 1/4 inches; Bears hand printed "I WILL KILL YOU" in black ball point pen ink; Black aqueous ink mark on bottom edge at ~ 1, 2/16th inches from left edge. K-1: Notebook measures ~ 4 1/2 x 5 1/2 inches; Cover is greenish blue plastic (textured front side); Divided into 4 sections separated by clear colored plastic pages with tabbed edges (red, blue, blue); cardboard backing; black wire spiral binding; Lines are grayish black in color: 17 total, printed on the front and back; interline spacing is ~1/4 inch; top margin measure ~3/4 inch; individual pages measure ~ 4 x 5 1/2 inches; Black aqueous ink line traversing the bottom edge of the notebook pages at ~ 1, 2/16 inches from left edge; 4th, 5th and 6th pages from the front are torn out and missing; 7th page contains hand printing in black ball point pen ink; Examined the remaining pages of K1 notebook. No additional writing was found. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| DDXWPA | HW Comparison | A forensic comparative examination of the questioned hand printing on Exhibit Q1 and the hand printing appearing on page 6 of K1 was inconclusive. Not comparable in text or style. Q1 is all upper case letters while K1 contains predominantly lower case letters. In addition the letters in the Q are not repeated in the K. |
| DDXWPA | Indented writing exam | Using the Crime-lite instrument and side lighting, indented writing was observed on the 7th page of the notebook that corresponds to the Q1 text. Using scissors, I removed the 7th page of the notebook bearing the indentations in order to facilitate an ESDA2 exam. Marked the edge of the portion of the paper still attached to the notebook with my initials and the date and marked the removed page as Exhibit K1A for identification. Using the ESDA2 instrument, I examined exhibits Q1 and K1A for indented writing. No indented writing was developed on Q1 but indented writing was developed on the front and back of exhibit K1A. Lifts were made of the developed indented writing. The writing was more visible from the lift of the back. It most closely resembles "I WILL KILL YOU" and overlays with the writing on Q1 making evident that Q1 was on top of K1A when the writing was made. The functionality of the ESDA 2 was verified using a verification test strip each time an item of evidence was processed. See attached image. [No images attached]. |
| DDXWPA | UV and IR exam | Using the VSC6000, I examined both exhibits under UV light. No evidence of value was observed. The paper fluoresced similarly for Q1 and K1A. Using the VSC6000, I examined both exhibits using the IR band pass filters and spot fluorescence. The ink appearing on the exhibits could not be differentiated. |
| DDXWPA | Fracture match of torn edges of paper | Using the VSC6000, I examined under magnification the torn right edges of the 3 remnants of paper from K1 (pages 4, 5, and 6) and compared them to the torn left edge of Q1. The pattern of the torn edge of Q1 was matched to the torn edge of the 4th page of the notebook, 1st of the 3 torn pages. See attached image. [No images attached]. |
| DHA4QD | Initial Assessment (Lighting, microscope) | Physicals taken and gross observations made using ruler, lighting, and macroscopic observation. Assessment of Handwriting (original/freely prepared) made using lighting and magnification. |
| DHA4QD | Indented Writing (ESDA, Side-lighting) | Observations of indented writing were first made using side-lighting and then ESDA was conducted on pages which were logical to have indented writing present based on tear locations of pages in K1 and possible indentations observed with side-lighting. |
| DHA4QD | Torn/Cut Edge Examinations | A torn edge comparison was conducted using side-by-side comparison (ACE-V methodology) of the edges using fracture patterns. |
| DHNDV8 | Oblique Lighting Examination | No visible indentations, similar to text on question note, Q1, seen on pages directly below (pages 7 - 17), in specimen notepad, K1. |
| DHNDV8 | ESDA | Indentations, similar to text on questioned note, Q1, "I WILL KILL YOU" is seen on pages directly below (pages 7 - 9), in specimen notepad, K1. |
| DHNDV8 | Microscopic Examination (matching torn edges) | Dimensions of questioned note, Q1, similar to dimensions of paper found in specimen notepad K1. Torn edge of questioned note, Q1, matched up with first torn edge (page 4), in specimen notepad K1. Torn edge of questioned note, Q1, did not matched[sic] up with the second and third torn edges (pages 5 & 6) in specimen notepad, K1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| DJJYLD | VSC6000 | oblique light |
| DJJYLD | ESDA(electrostatic detection apparatus) | Indentations(letter impression) indented impression |
| DJJYLD | microscope | magnifying |
| DJYDXU | Microscopic/macrosopic examination | Fracture match between Exhibit 1 (page 4) and Exhibit 2 (questioned note) |
| DJYDXU | Microscopic/macrosopic examination | Ink line approx. 2.5 cm from the bottom-right edge of the pages within Exhibit 1. Similar mark observed on the bottom edge of Exhibit 2 approx. 2.5 cm from the right edge |
| DJYDXU | Indented writing | Indentations originating from Exhibit 2 (questioned noted[sic]) developed on Exhibit 1 (page 7). |
| DM2B9M | Steriomicroscope[sic] Olympus SZX12 | Microscopic examinations revealed: 1. The Item 1 note book bears small black dots on all the backsides of the pages above the manufacturer's printed lines (including the partial pages 4, 5 and 6). 2. The Item 2 note page bears small black dots on the backside of the page, above the manufacturer's printed lines. 3. Microscopic examinations of the black dots on the Item 1 notebook pages failed to reveal any set patterns. The black dots varied in number and placement from line to line and also within lines. 4. Because no set patterns could be found in the black dots within Item 1 or Item 2, there is no conclusion if the black dots located on the backsides of the partial pages 4, 5 and 6 of Item 1 do or do not match the black dots located on the back side of Item 2. Handwriting Comparisons: 1. The known writing produced in black ball point ink on page 7 of Item 1 appears to have been produced naturally. 2. The questioned writing produced in black ball point ink on Item 2 is produced in all capital letters. The writing appears fluent however, there is no conclusion if the writing was or was not produced naturally. 3. Handwriting comparisons will not be conducted because all the known writing is produced in upper and lower case letters and all the questioned writing is produced in all upper case letters. In addition, there is not any similar words or letter combinations between the writings on Item 1 and Item 2. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| DM2B9M | Foster + Freeman video spectral comparator 6000 (VSC6000) | <p>Alternate Light Source and Microscopic Comparisons: (VSC6000 Examinations) All Control +/-Okay 5.13.15 through 5.19.15</p> <p>1. The paper tear comparison between the torn left edge of Item 2 and the torn right edge of partial page 4 of Item 1 revealed several points in common between the two edges (part of the fracture match).</p> <p>2. After the partial page 4 of Item 1 was matched to the page submitted as Item 2, the two paper fragments measure ~10.2 by 13.9 cm together, which is the same size of the pages within the known Item 1 spiral notebook (part of the fracture match).</p> <p>3. The paper fiber comparisons between the left torn edge of Item 2 and the right torn edge of partial page 4 of Item 1 revealed several partial fibers that were once single fibers between the two edges (part of the fracture match).</p> <p>4. Black felt ink marks on pages 1, 2, 3, 7, 8, and 9 of Item 1 and Item 2 (Q) were examined as follows: a. The location of black felt ink marks on the whole pages 1, 2, 3, 7, 8, and 9 of Item 1 (K) and the page submitted as Item 2 (Q) were measured from each of their right lower corners. All black felt ink marks are ~2.6 cm from the right lower corner of each of the pages. b. The black felt ink marks on the pages 1, 2, 3, 7, 8, and 9 of Item 1 (K) and the page submitted as Item 2 (Q) were examined microscopically and using the VSC6000. Examinations of the black felt ink marks failed to reveal any differences between all of the marks on the pages of Item 1 and the mark on Item 2.</p> <p>5. Paper comparisons between Item 2 and the page labeled 7 of Item 1 failed to reveal any differences using microscopic examinations and all the light source and filter combinations available on the VSC6000.</p> |
| DM2B9M | Foster + Freeman Electrostatic Detection Apparatus (ESDA) | <p>Electrostatic Detection Apparatus (ESDA) - 5.13.15 Control +/-okay Cascade Development Used Rh+ 49.1% S/N #70156</p> <p>1. Examinations of pages 8 and 9 of the Item 1 spiral notebook revealed indented impressions that were caused when the writing was produced on the notebook page submitted as Item 2 that reads I WILL KILL YOU.</p> <p>2. Examinations of page 7 of Item 1 and Item 2 failed to reveal[sic] indented impressions. Note - faint impressions were visualized on page 7 of Item 1 during side light examinations. A second ESDA examination of page 7 was conducted the next day and it failed to reveal any indented impressions.</p> <p>5.14.15 Control +/-okay Cascade Development Used Rh+ 48.3% S/N #70156 Used conclusions from first day examinations.</p> |
| DM2B9M | Leeds/Fostec goose neck lighting apparatus | <p>Indented Impression Examinations / Side-light Examinations: Sidelight Examinations - 5.8.15</p> <p>1. Examinations of the pages 7, 8, and 9 of the Item 1 spiral notebook revealed very faint indented impressions that were caused when the writing was produced on the notebook page submitted as Item 2 that reads I WILL KILL YOU.</p> <p>2. Examinations of the pages 8 and 9 of the Item 1 spiral notebook revealed indented impressions that were caused when the writing was produced on page 7 of the Item 1 spiral notebook.</p> <p>3. Pages 1, 2, and 3 in the Item 1 spiral notebook failed to reveal any indented impressions.</p> <p>4. Examinations of Item 2 failed to reveal any indented impressions.</p> |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| DM2B9M | Case notes / Evidence description | Case notes / Evidence description One red tape sealed manila envelope containing two smaller clear taped manila envelopes containing: KNOWN EVIDENCE: Evidence Description: Item 1 (K): One red tape sealed manila envelope containing: one small spiral notebook ~11.4 by 13.9 cm with black lined paper, a green plastic cover, a cardboard back and red, green and blue plastic tab dividers. Inside, the first three pages are whole pages and were labeled 1, 2, and 3 by [Analyst]. The next three pages are partial pages left when the pages were torn out. These partial pages were labeled 4, 5 and 6 by [Analyst]. The remaining pages in the notebook are complete pages. [Analyst] only labeled the next three pages after the three partial pages. These three whole pages were labeled 7, 8, and 9 by [Analyst]. The partial pages 4, 5, and 6 were measured and ranged from ~1.3 to 1.4 (torn edges) by 13.9 cm). The complete pages labeled 1, 2, 3, 7, 8, and 9 were measure and were ~10.2 by 13.9 cm. The three partial pages present appear they have been removed in a similar manner at the same time i.e. there is a line crease present on the partial page labeled page 4 that appear to be from a straight edge and the partial pages labeled pages 5 and 6 were stuck together. There is writing produced in black ball point ink present on the 7th page in the notebook. The notebook pages also have a black ink mark running down the side of the pages in the lower right corner (see picture in case file) ~ 2.6 cm in from the right edge. The mark on the first page is minimal and the mark on the second page is only visible using the microscope on the back side of the page. The black ink mark is very dark and very visible through the rest of the book. QUESTIONED EVIDENCE: Evidence Description: Item 2 (Q): One rts manila envelope containing: one piece of black lined note paper that measures ~8.9 by 13.9 cm and bears a black felt ink mark ~ 2.6 cm from the right lower corner. The note bears the message I WILL KILL YOU in black ball point ink. The left edge of the paper has an uneven edge like it had been torn. |
| DMM4CZ | Video Spectral Comparator - Side Lights | Impressions writing - on notepad (K1) |
| DMM4CZ | Video Spectral Comparator - Flood Light | Physical match - Note (Q1) and Notepad (K1) same texture |
| DMM4CZ | Electrostatic Detection Apparatus (ESDA) | Indentations writing (K1) - I WILL KILL YOU |
| DXHFK8 | VSC 6000 - Flood Light | 1. Physical match between the notebook and the questioned note |
| DXHFK8 | Side light | 1. Indentations on the notebook |
| DXHFK8 | ESDA | 1. Indentations on the notebook |
| EBKNWZ | Indented writing - oblique | Indentations on page 7 of K1 |
| EBKNWZ | Indented writing - ESDA | K1 Page 7 indentations "I WILL KILL YOU" overlay writing on Q1. |
| EBKNWZ | Macroscopic | Similarities in edge marks (guillotine & black marked line) on Q1 & K1. |
| EBKNWZ | Macroscopic | Similarities in paper colour & size, ruled line spacing, colour & width on Q1 and K1. |
| EBKNWZ | Ink Exam - VSC RIR & IRL | K1 ink similar reaction, Q1 ink similar reaction, cannot compare Q1 to K1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| EBKNWZ | Paper Exam - VSC UV | K1 & Q1 similar reactions. |
| EBKNWZ | Microscopic & Transmitted light | Q1 & K1 Page 4 similarities in torn edge profile, Q1 & K1 Pages 5 & 6 differences in torn edge profile |
| ED9U2C | METHOD: SEÑALETICO[sic]: Observation | Initially[sic] the incriminating document is the one that has taken NOTE: I WILL KILL YOU, natural light was used for observation. Then Notepad is observed, which contains three (3) pieces of paper attached to the ring. |
| ED9U2C | Indication and compare the characters | There are compared and arranged individually three (3) chunks of paper adhered to the passbook of notes, opposite to the leaf that contains the Note: I WILL KILL YOU, in the VSC 6000. [sic] |
| ED9U2C | Judgment distinctive and identity. | It differs: Direction of the fibers of the paper. - type of court and his characteristics. - physical Particularities of the substrate. - Continuity of the lines pre-impresas.-Thickness of the pre-printed lines. [sic] |
| ED9U2C | INSTRUMENTAL: Magnifier 10 X | [No observations reported.] |
| ED9U2C | VSC 6000 | [No observations reported.] |
| EH98FH | Indented writing - oblique lighting | Application of the oblique lighting allowed to show indented impressions of handwriting on the fourth existing page of notepad (Item K1). |
| EH98FH | Indented writing - electrostatic (ESDA) | ESDA was used to visualize indentations of handwriting on the surface of the fourth page of the notepad (Item K1). The visualized indented impressions were identical with handwriting "I WILL KILL YOU" which is visible on the threatening note (Item Q1). |
| EH98FH | Paper - microscopic/macroscopic examination | The left edge of the threatening note (Item Q1) matches the edge of the first fragment of paper left in the notepad (Item K1). Black point on the bottom edge of the threatening note is in the same position as the black line marked on the bottom of all the pages of the notepad. |
| EQG7MY | Microscopic | Tear match comparison, printing and pen type identification |
| EQG7MY | Macroscopic | Measurement of format of items including sheet and line spacing, and orientation of black mark located on bottom of sheet. |
| EQG7MY | Fluorescence (IRL) | Paper fibre examination of fluorescent fibres in the paper to determine whether a tear match could be observed |
| EQG7MY | Indented writing | Oblique light and ESDA to examine for indentations from entries on Q1 |
| EQG7MY | Transmitted light | To examine and compare the transmitted light features of the paper |
| EQGDZ8 | electrostatic (EDD) | text of Q1 is present in indentations found on fourth full page in notebook which bears handwriting with date 3/2/15 and references to Math and English (K1). |
| EQGDZ8 | microscopic | microscopic comparisons of torn left side of Q1 matched fibers on the first spine remnant still present in notebook K1. The ink mark near right side border on the bottom edge of Q1 is consistent with similar ink marks' color and location on other page bottom edges in K1. |
| EQGDZ8 | hyperspectral (VSC) IR & UV | no differences were observed between the inks on Q1 and entries on the fourth page of K1. UV reflectivity of the Q1 paper is similar to K1 paper. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| EQGDZ8 | microscopic | printed ruled lines on Q1 are varied and the pattern of variations for each line are consistent with those on the first spine remnant in K1, further confirming that Q1 was at one time joined with this first spine remnant in K1. |
| F37WRH | Microscopic/Macroscopic, Indented Writing, Tear Pattern Match | Examination for indented writings revealed impressions consistent with Q1 writing on page 3 of K1. Microscopic physical match revealed tear patterns from edge of Q1 corresponds with with[sic] torn edges from spine of first torn page from K1. |
| F3RV3F | Microscopic Examinations | Microscopic examinations revealed similar hue color of the Q1 and K1.7 inks and likewise was used to identify the inks as ballpoint. They also revealed evidence of fluency in the writing. These microscopic examinations also assisted in fracture and fiber comparisons. |
| F3RV3F | UV Examinations | UV examinations at 365nm, 312nm, and 254 nm of the paper used to produced Q1 and K1.4 - K1.6 revealed similar responses to ultraviolet light. |
| F3RV3F | Paper Examinations | Paper examinations revealed similar class and individual characteristics with respect to Q1 and K1.4. These exams revealed edge to edge lock and key alignment, page line alignment, and paper fiber alignment. |
| F3RV3F | Indentation Examinations | Indentation examinations were conducted with both grazing light and the ESDA. K1.7 front bears impressions from the original writing on Q1. |
| F3RV3F | Ink Examinations | Ink examinations revealed that the ink(s) used to produce the Q1 and K1.7 react similarly throughout the spectrum. |
| F3RV3F | Handwriting Examinations | Comparison was conducted between the writing on Q1 and K1.7. In comparing the writing, the lack of all uppercase letters and comparable words and word combinations, hindered the examinations. |
| F3TQM7 | Visual Comparison | Portions of Q1 Indented writing was observed on K1 underlying spiral bound notepad sheet via oblique lighting. |
| F3TQM7 | Comparison Microscope | The Q1 note fracture matched via the edges with the spiral bound piece located in K1. |
| F3TQM7 | ESDA | Q1 indented writing was developed on the K1 underlying spiral bound sheet. |
| F42EV4 | microscopic | Structure, fibers are matching each other by comparing waste paper from K1 with Q1. |
| F42EV4 | Indented writing | using this method was possible to make visible on the K1 inscription "I WILL KILL YOU". |
| F4XHFJ | Stereoscope/VSC 6000hs (Fracture Pattern) | The examination of the torn left edge of the Exhibit Q1 and comparison with the K1 page 4 narrow strip (.5") of paper revealed that they matched and were at one point joined to be a complete page in the notebook. |
| F4XHFJ | VSC 6000hs (UV/paper) | UV characteristics of the Exhibit Q1 and Exhibit K1 strips (3) and sheets of paper (136) are consistent. |
| F4XHFJ | Side light and ESDA (Indented Writing) | Indented writing was found on the Exhibit K1 page 7 that was produced during the execution of the Exhibit Q1 note. This is clear in the ESDA results and somewhat visible in the side light photographs. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---------------------------|---|
| F4XHFJ | VSC 6000hs (Ink) | There is a black line along the edge of the lower right portion of the exhibit K1 notebook which left a small black mark in the lower right edge of the pages in the notebook. Q1 has a black mark that is consistent in location and reaction to both IR absorption and IR fluorescence. |
| F4XHFJ | VSC 6000hs (Ink) | The black ball point ink found on the exhibit Q1 is consistent with the black ball point ink found on K1 page 7 in both IR absorption and IR fluorescence. |
| F4XHFJ | General Observation | There are four different sections in the notebook separated by plastic dividers. Including the Q1 item the sheet count is 38, 37, 38 and 38 from front to back. |
| F4XHFJ | General Observation | Page 7 of the Exhibit K1 contains a hand printed entry which is not comparable to the hand printed message found on Q1. These two messages are different in like letters, letter style and letter combination. |
| F8H8YW | Macroscopic examination | 3 strips of paper ("strips 1 to 3") are attached to the binding (the rest of each page has been torn away) between pages 3 and 4 of K1; strips 1 and 2 were "stuck" together at the binding holes; I found no evidence of other paper remnants which would suggest the removal of other pages from K1, but this is not to say that other pages have not been (completely) removed from K1 (I have not counted the remaining pages nor made enquiries as to the manufacture source for information regarding the expected number of pages); a black texta mark is present on the bottom edge of Q1 in a similar location and form to marks on pages 3 and 4 of K1 (and other pages of K1); no distinction was observed between the black ballpoint pen inks; no distinction was observed between the paper stock; no distinction was observed between the black texta marks; |
| F8H8YW | Microscopic examination | the printed lines exhibit similar style, spacing, colour, thickness, imperfections and extraneous marks on Q1 compared with pages 3 and 4 of K1 (and other pages of K1); the position of the printed lines with respect to the upper and lower edges of the page is similar on Q1 when compared with strips 1 and 2, and different when compared with strip 3; the fracture pattern along the torn edge of Q1 is complementary to that of the torn edge of strip 1, and not to that of either of strips 2 or 3; no distinction was observed between the black ballpoint pen inks; no distinction was observed between the paper stock; no distinction was observed between the black texta marks; |
| F8H8YW | Oblique light examination | visible writing impressions in pages 4 and 5 of K1; the entirety of K1 was checked; |
| F8H8YW | ESDA examination | Q1 and page 4 of K1 only were examined using the ESDA; no impressions decipherable as writing impressions were developed on Q1; writing impressions were developed on page 4 of K1 which have their origins in the original writing on Q1, establishing that Q1 was (directly or indirectly) overlying page 4 of K1 at the time/s the entry was written; the alignment of the writing impressions with respect to the edge of the page is such as would be expected had Q1 been bound in K1; ESDA sequencing examination has not but can be undertaken if required with a view to determining the sequence in which the handwritings on Q1 and page 4 of K1 were written; |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|------------------------------|---|
| F8H8YW | VSC6000 | UV, IR, transmitted light and transmitted UV examinations were undertaken of Q1 and page 4 of K1; no distinction was observed between the black ballpoint pen inks; no distinction was observed between the paper stock; no distinction was observed between the printed lines; no distinction was observed between the black text marks; |
| FB28B7 | Visual | Similarities with paper between q1 & k1; color, lines, paper & marks at the bottom of the pages. |
| FB28B7 | Sidelight & EDD examinations | Impressions of the questioned information found on the K1 document. |
| FB28B7 | Microscopic & backlighting | Physical match of the q1 edge of paper with cut and torn segment in the k1 ring binder.(fracture match) |
| FB28B7 | physical match | The questioned text in q1 overlays with the EDD impressions on k1. |
| FB28B7 | Ultraviolet and infrared | Examination of the q1 note. |
| FDN2UR | ESDA | Spiral notebook was separated for analysis. The 4th and 5th sheet down were run on the ESDA. Both the 4th and 5th sheet resulted in positive ESDA lifts with the wording of the note Q1. ESDA lifts were used to overlay over the actual note Q1. |
| FDN2UR | VSC | The sidelight feature only was used on the VSC to examine sheets 4, 5, 6 of K1. This feature was used to determine if impressions were visible. There were no impressions visible. |
| FDN2UR | Stereomicroscope | The olympus SZ61 stereomicroscope was used in attempt to physically match the note Q1 back to a torn edge out of K1. The edges were examined at 8x magnification. Q1 was physically matched back together to the edge of K1 (c). |
| FDN2UR | Ruler | A ruler was used to measure the note Q1 and the paper in the notepad K1. The note was placed back together with the strip left in notebook and all sheets measured the same. |
| FDN4JW | ESDA/oblique light | Indentations from Q1 revealed on page with writing inside K1 |
| FDN4JW | Microscopic | Comparison of tear line on Q1 matches with uppermost torn spine from K1 demonstrating that they were once a single page. |
| FDN4JW | Macroscopic | Similar paper stock and line markings. Size similar. Ink mark at base of page similarly placed |
| FDN4JW | VSC | Ink marks at the base of Q1 and K1 cannot be differentiated |
| FDN4JW | VSC | Ink used in Q1 writing and ink used in K1 cannot be differentiated |
| FJTPPE | Visual | Q1 paper is closely similar in size, colour and line spacing to paper within K1. Black ink dot on bottom edge of Q1 is closely similar in size, colour and positioning to the black ink dot along the bottom edge of K1 notepad |
| FJTPPE | Microscopic | physical fit between torn edge of Q1 and torn edge of the first 'tab' in K1 |
| FJTPPE | Oblique light | indented impressions of what appears to be handwriting visible under oblique light on the page bearing handwriting in K1 |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|--|
| FJTPPE | ESDA | indented impressions of handwriting reading 'I WILL KILL YOU' on the page bearing handwriting in K1. These indented impressions overlay precisely with the handwriting on Q1 |
| FLH4ZA | Indented writing (oblique) | All Item K1 pages, Item Q1. Indented writing observed on pages 7-9 (Item K1). |
| FLH4ZA | Indented writing (ESDA) | Item K1, pages 1-3, 7-9, Item Q1. Indented writing observed on pages 7-9, Item K1. |
| FLH4ZA | Film Overlays | Determined source of indentations. Item Q1 text with Item K1, indented writing. |
| FLH4ZA | Transmitted Light Box | Feathering/fractures, torn edge comparison, Item K1, page 4 with Item Q1. |
| FLH4ZA | Hand Magnifier | Feathering/fractures, torn edge comparison, Item K1, page 4 with Item Q1. |
| FLH4ZA | Leica Comparison Microscope (40x) | Feathering/fractures, torn edge comparison, Item K1, page 4 with Item Q1. |
| FLH4ZA | VSC 6000 | Similar ink properties. Handwriting on Item Q1 and Item K1, page 7. |
| FLH4ZA | Macroscopic | Class characteristics, Item Q1 and Item K1 Notepad. |
| FXW26E | Oblique Light/ESDA | Indentations from Q1 on page 7, 8 of K1 notebook |
| FXW26E | Microscope | Original writing on Q1 |
| FXW26E | VSC 6000: magnification, ALS | Fiber correspondence between torn edges of Q1 and K1, p4 |
| G2TANE | General Observation of the notepad | It contains ruled paper sheets; 3 pages were removed but a part of them yet remains. We observed that bottom of each page is marked by a black ink dot. |
| G2TANE | General observation of the questioned note | It's a sheet of ruled paper which left-hand side is cut. The bottom of the page is marked by a black ink dot. |
| G2TANE | Microscopic Observation | There is a perfect matching between the questioned note and the first cut page of the notepad (paper type; grey lines; cut; position of the black ink dot). |
| G2TANE | ESDA | Indented writing "I WILL KILL YOU" is revealed on the page after the cut ones of the notepad. |
| GCBNRG | Microscopic Comparison | Original writing, torn edge feathering fracture pattern and fibers |
| GCBNRG | Indented Writing ESDA | Indented writing on Item K1 piece of paper |
| GCBNRG | Sidelight | Indented writing on K1 piece of paper |
| GKNKVN | Microscopic Examination | Observed agreement in fractured edges of Q1 page with the first torn page in notebook. |
| GKNKVN | Indented Writing Examination - Electrostatic | Indentations reading "I WILL KILL YOU" are present on the page of the notebook which contains the writing "3/2/15". |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| GKNKVN | Measurement - Ruler | Dark marks at the bottom of page Q1 and the notebook are approximately 1 7/64" from the right hand side. |
| GKNKVN | Digital Imaging - 600 dpi scans | Allowed for digital fracture match of the torn edges on Q1 to K1 (first torn page in notebook). |
| GKNKVN | Digital Imaging - Overlay | Allowed for digital overlay of the writing on Q1 with the indented writing impressions recovered on the page of the notebook which contains the writing "3/2/15". |
| GKNKVN | Paper Examination - UV/Infrared | Under alternate illumination sources, similar optical properties were observed for the paper comprising Q1 and that comprising K1. |
| GKNKVN | Ink/Printing Examination - UV/Infrared | Both the ink on Q1 and on the page containing writing in K1 exhibited similar optical properties. |
| GKNKVN | UV/Infrared - Fracture Match with 16x Magnif. | Similarities between the paper edges from Q1 and the fragment from the first torn page. Luminescent fibers present on both the torn edges above occupied a similar position along the fracture edge. Edges between Q1 and on fragments from torn pages 2 and 3: dissimilarities noted. |
| GPGKAJ | Macroscopic | There is an ink mark on the bottom right edge of Q1 that is consistent with the ink mark on the edge of the K1 notepad in appearance and location. |
| GPGKAJ | Microscopic | An integral parts examination revealed alignment of a specific fiber, the inked rule line and the torn edge of the paper indicating the Q1 originated from the K1 notepad. |
| GPGKAJ | Indented Writing | A page of the K1 notepad contained the indentations from the text of the Q1 exhibit. |
| GQPAFV | ESDA | The notepad revealed the words "I WILL KILL YOU" |
| GQPAFV | VSC (Superimposed) | A physical match was observed between Q1 and K1. |
| GV4E3A | ESDA(electrostatic detection apparatus) | Indentations(letter impression) indented impression |
| GV4E3A | microscope | paper comparison |
| GWXV7E | Indented writing (ESDA) | It was used to recover the indented writing "I WILL KILL YOU" in the notebook (K1) which corresponds with the writing on the document in question (Q1) |
| GWXV7E | Microscope | Used for paper comparison to determine if the note originated from the notebook. |
| GWXV7E | Video Spectral Comparator (VSC 400) | Comparing pages and page lines and determine if the page (Q1) originated from the notebook (K1). I found that the page lines on Q1 corresponds with those in the notebook (K1). |
| H32YUR | ESDA | The wording "I WILL KILL YOU" on the disputed threatening note marked "Q1" was indented on the page of the notepad marked "K1" |
| H32YUR | VSC (Sidelight) | The impressions or indentations of the wording "I WILL KILL YOU" were indented on the page of the notepad marked "K1" |
| H32YUR | VSC (White and Transmitted lights) | The threatening note marked "Q1" was physically matched to edges or left page margins of the notepad marked "K1" |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| HCR8AT | microscopic/macrosopic | Each torn off page stub in notepad labeled as A,B,C was compared to the torn edge of the questioned note Q1. It was observed that the edge of stub A physically matched the edge of note Q1. The other edges of the stubs B and C did not display a physical match to Q1. |
| HCR8AT | Visual paper examination | A black texta mark was present on the bottom edge of pages of the closed notepad. Remnants of this texta line was observed on the bottom edge of Q1 and coincided in the same position as the pages next to the removed pages. |
| HCR8AT | spectral examination | Comparison of paper from K1 and Q1 revealed similar spectral properties. |
| HCR8AT | Indented impressions | The blank page beneath the page with handwriting commencing "3/2/15..." in K1 was examined using the ESDA. Indented impressions of the entries which appear on Q1 were detected as well as the entries commencing "3/2/15..." |
| HFNQBR | Microscopic examination | Examined torn areas of Item Q1 and 3 torn edges of paper left in notebook of Item K1. The 3 torn edges were eventually cut from the notebook and given designated numbers according to their place in the notebook i.e. 1, 2, and 3. The edges closest to the torn portion of the 3 pieces are bent upwards indicating that a straight edge may have been used to tear them all at once from the notebook. Physical match was made with the torn edge of the strip of paper marked no. 1 from the notebook in Item K1 and the torn edge of Q1. No other torn edges were located in the spiral portion of the notebook. |
| HFNQBR | Oblique angled lighting examination | Each page of the notebook in Item K1 was examined with oblique angled lighting as well as the paper in Item Q1. Indentations were observed on the page in the notebook that contained hand printing. This page was cut from the notebook for indented writing examination and marked as Item K1(a). |
| HFNQBR | Indented writing examintion[sic] | ESDA, test strip positive. Q1 and the full page that was cut from K1, K1(a), were processed for indented writing impressions. The indentations from the writing on Item Q1 were observed on Item K1(a). |
| HFNQBR | Flatbed scanner | Scanned Item Q1 and the torn edge of page marked 1 from Item K1 to demonstrate physical match. Scanned at 1200 dpi. See image metadata for scanner settings. Images were downloaded to a disk. |
| HFNQBR | Infrared examination | Test strip positive. No different reactions under Ultraviolet lighting. Two images downloaded to a disk. |
| HRGDGM | Electrostatic Detection Apparatus (ESDA2 and cascade toner) | No indented impressions of evidentiary value were found on Q1. Indented impressions were found on the front and back sides of K1d and K1e. These indented impressions support that Q1 was on top of K1d and K1e when the handprinting on Q1 was written. |
| HRGDGM | Video Spectral Comparator (VSC-6000) | Indented impressions were found on K1d and K1e. |
| HRGDGM | Microscopic | Black ballpoint ink was used to write the handprinting on Q1 |
| J2GW39 | macroscopic observation | Q1 K1 documents directly observed with magnifying glass and stereomicroscope and Contours, sizes and printing lines facing visually compare documents, to see if they have the same size, media type, print, documents and forms. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| J2GW39 | Indented text analysis by video spectral comparator | Oblique incidence of light revealed indented text document on sheets of notebook Q1 K1, to find relief under left by the writing on the backsheet. [sic] |
| J2GW39 | image overlay to compare fractures or torn paper by video spectral comparator | Observation and alignment of fractures or torn edges and paper documents against K1 Q1 and compared to find identities or not. |
| J2GW39 | ink and paper analysis by video spectral comparator | ink and paper analysis by video spectral comparator Papers and inks versus Q1 paper and ink document to document exposure K1 365nm UV fluorescence are shown and reactions are compared to see if they are the same or different. ink and paper analysis by infrared fluorescence by video spectral comparator Inks documents and document against the document Q1 and K1 Ink document exposed to infrared spot exposure 665 nm fluorescence at 830 nm and the reactions were compared to see if they are equal or different. ink analysis by infrared absorption spectral video comparator Inks documents and document against the document Q1 and K1 Ink document to infrared exposure to 665 nm fluorescence 830 nm are shown and reactions are compared to see if the inks are absorbed or not under these wavelengths. [sic] |
| J9LGMT | Flood Light (VSC Instrument) | Physical match at the edges of the torn pages. |
| J9LGMT | Oblique Light (VSC Instrument) | Indented writing (of the reading "I WILL KILL YOU") observed on the first page after torn pages, ie on the page dated 3/2/15 |
| J9LGMT | Electrostatic Detection (ESDA) | Indented writing (of the reading "I WILL KILL YOU") observed on the first page after torn pages, ie on the page dated 3/2/15 |
| JLRRW2 | Grazing, oblique lighting | Page in notepad with inked entries "3/2/15 Math:..." was examined with grazing light and found to have indentations from a page prior. Three pages had been torn prior to this page using a straight edge. |
| JLRRW2 | ESDA | The above page was removed from the notepad and subjected to EDD examination. The exact and same words were found indented as appears on the questioned note. |
| JLRRW2 | Visual | The same torn edge appears on the questioned note that appears from the torn page in the notepad. An ink mark appears on the questioned note on the lower right side of the bottom page in the same location as the ink marks on the notepad. |
| JLRRW2 | IR | The ink mark on the questioned page bore no dissimilarities with the ink on the notepad. |
| JNWK7K | Macroscopic and microscopic examination | Visual examination noted the following similarities of Q1 to the top fragment of K1: ruled lines aligned on paper fragments; fracture match edge aligned between K1 and Q1; Additionally, black marking pen was used along the bottom edge of the pages. The markings on Q1 aligned when placed in proper orientation with K1. |
| JNWK7K | Indented writing examination (oblique/ESDA) | The K1 page "3/2/15..." was examined for indented writing. Indentations of the Q1 writing were found on the page "3/2/15..." of K1. Indented writing was detected and deciphered "I WILL KILL YOU" using the ESDA. |
| JRZD24 | Visual/Microscopic | Q1 written with black ballpoint pen, medium speed, heavy pressure. K1-7 written with black ballpoint pen, medium pressure and speed. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| JRZD24 | Digital Imaging | Imaged Q1, K1-7, ESDA lifts K1-7 front, K1-7 back, K1-8 back, Physical Match between Q1 and K1-4. |
| JRZD24 | Visual/Microscopic | Between Q1 and K1-4 the following class characteristics were found for each: color of paper and lines (white and gray), type of paper(lined, size of paper (approx. length 13.8 cm), black marker line along bottom edge, vertical crease on side/edge on K1-1 - K1-3 and K1-7 - K1-35. Individual Characteristics found between Q1 and K1-4: realignment of lines, interfitting of fibers, tear patterns realigned. |
| JRZD24 | Search Criminal Letter Database | There is no association with any previously submitted case in the database regarding Q1. |
| K84AWM | Macroscopic Examination | Paper quality, color and texture appeared similar between the Questioned note and the notebook pages. The printed lines also appeared similar. The fourth sheet (first torn sheet) of the notebook appeared to physically fit with the Questioned note. |
| K84AWM | Macroscopic Examination | Black ink present on the bottom of the Questioned note appeared to correspond in color and location with black ink present in a line on the bottom of the notebook. |
| K84AWM | Microscopic Examination | Paper fibers appeared similar between the Questioned note and the notebook pages. The fourth sheet (first torn sheet) of the notebook appeared to physically fit with the Questioned note. |
| K84AWM | VSC-4 | Paper fibers appeared similar between the Questioned note and the notebook pages. Fibers present in the fourth sheet (first torn sheet) and the Questioned note appeared to line up in location with viewed under spot lighting. |
| K84AWM | VSC-4 | No dissimilarities were seen between the ink present on the Questioned note and the notebook (seventh page). |
| K84AWM | VSC-4 | Indented writing was seen on the seventh page of the notebook under side lighting containing some of the letters in the Questioned note. |
| K84AWM | ESDA | The seventh page of the notebook was examined using the ESDA and the words "I WILL KILL YOU" were seen. These corresponded with the words on the Questioned note. |
| KABUDV | Indented writiing[sic] (Oblique Light & ESDA) | Indented impressions of the handwriting on Q1 observed and enhanced on the page within K1 bearing the handwriting '3/2/15 Math...' |
| KABUDV | Physical fit (VSC & Microscopy) | Left hand torn perforated edge of Q1 corresponds to tear pattern on perforated edge of 1st stub within K1. |
| KABUDV | Ink examination (VSC & Visual) | Black fluid ink observed on similar location on bottom edge of Q1 and also bottom edge of pages within K1. Black fluid ink on both K1 and Q1 react similarly under specialist lighting techniques. |
| KYNVK6 | obllique[sic] light | there is indented writing consistent with the handwriting in the note |
| KYNVK6 | microscopic comparison | there is coincidence with the way it was cut it or removed it |
| KYNVK6 | microscopic comparison | it have a mark with ink in a border |
| KYNVK6 | air permeability of paper | there is not diference[sic] of pass of air through the paper, between the notepade[sic] and the threatening note. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|--|
| KZNU4D | Microscope / Visual | Questioned note Q1 was examined and physically matched to the first margin tab in exhibit K1 not containing a full piece of notebook paper. The K1 notebook contained a black line from front to back possibly made with a black fiber tip pen. The Q1 note contained a black mark in the same measured position as the notebook. |
| KZNU4D | ESDA | Indentations were found on full page #4 in exhibit K1 that deciphered as "I WILL KILL YOU" |
| KZNU4D | VSC | Paper and black ballpoint pen ink reacted consistently between the Q1 document and K1 notebook paper and the writing in the K1 notebook when examined with IRL and IRR |
| KZNU4D | Oblique lighting | When the notebook was examined using oblique lighting the indented writing found on page 4 of the notebook clearly revealed the works[sic] "I WILL KILL YOU" |
| L34P23 | VSC 6000 | It was observed that K1 and Q1 are written with the same ink. |
| L34P23 | ESDA | I can see the indentation "I WILL KILL YOU" in K1 |
| L34P23 | Comparison | side by side |
| L43NJB | Stereomicroscope | Tear pattern examination. Black markings on Q1 and K1 |
| L43NJB | UV lamp | UV fluorescence comparaisn[sic] |
| L43NJB | Indented writing (oblique and electrostatic) | Indented writings on K1 |
| L7RU3L | microscopic/ macroscopic/ VSC (IR, IRL, UV) | No significant differences noted between Q1 and K1 in regards to physical characteristics of the paper. The inks used for the written entries on K1 and Q1 could not be differentiated using non-destructive techniques. The reverse side of Q1 and the reverse side of the pages of K1 contain extraneous marks above the printed line. The bottom edge of Q1 and the bottom edge of most of the pages of K1 contain an extraneous ink mark in approximately the same position. Pages 4-6 of K1 are partial pages that appeared to have been torn. The left edge of Q1 also appears to have been torn. A portion of page 19 of K1 appears to have been torn off and is adhering to page 20. |
| L7RU3L | handwriting comparison | Questioned written entries are block printed and not comparable to the hand printing in K1. Therefore, no opinion could be reached as to whether or not the questioned and known written entries were authored by the same writer. |
| L7RU3L | indented writings (oblique lighting, ESDA) | Q1, pages 1-3 of K1, page 7 of K1 were examined for the presence of indented writings. No indented writings were detected. |
| L7RU3L | physical match | A physical match examination was conducted on the torn edge of Q1 and the torn edges of pages 4-6 of K1. Q1 and page 4 of K1 share class and individual characteristics. Therefore Q1 and page 4 of K1 were joined at one time to form a single page. |
| LHL92H | Indented Writing (ESDA) | On the page with the writing beginning with "3/2/15", the handwritten text "I will kill you" is found on the ESDA lift. The text on the ESDA lift is an exact match to the text on Q1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---------------------------------------|---|
| LHL92H | Macroscopic | Marking with black ink on the bottom of the page corresponds to the marking on the bottom of the notepad. Physical fit on the edge of Q1 with the remains of paper in K1. Paper and lining on paper cannot be discriminated. |
| LTVMPW | Flood Light (VSC Instrument) | The physical match was observed between the disputed note marked "Q1" and the first torn piece of paper found in the note pad marked by myself as "K1A". It was a positive physical match. No physical match can be found, between the disputed document "Q1" and the other two torn pages from the notepad marked by myself as "K1B" and "K1C". |
| LTVMPW | Oblique Light (VSC Instrument) | The[sic] were very little indentations found on the page marked by myself as "K1D". |
| LTVMPW | Electrostatic Detection (ESDA) | Indented writing was observed on the page marked by myself as "K1D" in the notepad that read "I WILL KILL YOU". |
| LUERHA | UV | UV exam @ 254 nm, 312 nm and 365 nm. Response from Q1 and K1 pg 7 - All consistent, no visual differences noted for optical brighteners[sic]. |
| LUERHA | Paper Thickness Micrometer | Q1 consistent in thickness with K1 pg 8 range 0.0025" - 0.0030" |
| LUERHA | ESDA | K1 pg 7 has ESDA pos of text of Q1. |
| LUERHA | ESDA | Q1 - Negative of investigative value. |
| LUERHA | Visual | 1) Black ink mark at bottom of K1 notebook (continuous line top-bottom) consistent w/ Q1 black mark in size and location and type of writing instrument (porous tip). 2) Paper size & line spacing (general) consistent Q1 vs K1 pg. 7. 3) K1 pg. 4 piece of paper (a torn remnant) is best fit for line spacing and line (inked line) thickness. 4) Line color consistent in Q1 vs K1 pg. 4, 5, 6. 5) Paper edge cut blade marks (striations) were seen in K1 notebook. At this point in the examination, the cut striation marks on Q1 were not visualized. 6) Gross physical fit Q1 w/ K1 pg. 4, no cross linked fibers noticed. |
| LUERHA | Microscope | 10x-90x - looking for cross-linked paper fibers non-found. |
| LUERHA | IR Luminescence | Cross linked fibers visualized on Q1 and K1 (pg 4) |
| M2ATZU | Used VSC 6000 and applied flood light | To conduct physical match between Questioned Note and torn part of Notepad. Image of Questioned Note's writing "I WILL KILL YOU" fit perfectly with the indentation when overlaid on the notepad. |
| M2ATZU | Used VSC 6000 and applied side light | To reveal indentation of the words "I WILL KILL YOU" on the Notepad. |
| M2ATZU | Used VSC 6000 and applied UV light | Matched Questioned Note and torn part of Notepad are UV bright, react similar under UV light which can only mean that they originate from the same source. |
| M2ATZU | Used ESDA 2 | For the deciphering of indentation of the "I WILL KILL YOU" on the Notepad. |
| MEEB92 | ESDA | ESDA exams were conducted on laboratory verification sheet followed by tests of Q1 (front/reverse), K1 (written page front/reverse), K1 pages preceding & following the written page (each front only), K1 (written page front and reverse show vestiges of the Q1 writing indentations. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|--|
| MEEB92 | handheld loupe | Hand held 10X loupe was utilized with ambient office light to examine black line observed at bottom of K1 book along with black dot observed at bottom of Q1 sheet. |
| MEEB92 | VSC | VSC exam was conducted using flood, UV, transmitted and side light sources. Examiner's case notes contain detailed images and observations. |
| MFRGCD | Video-comparador espectral Foster & Freemann [sic] | VSC 2000/HR model. |
| MFRGCD | ESDA, marca Projectina, modelo Docustat [sic] | To obtain latent writing. |
| MFRGCD | Microscopic Analysis | Microscopio estereoscopico, marca Leica, modelo S6D. [sic] |
| MFRGCD | Magnifiers 10 and 15 increases | Magnifiers 10 and 15 increases |
| MGMZFY | Visual Examination | The Q1 notebook page and the K1 notebook have a consistent black ink line on the bottom edge, approximately 1" from the right edge. Three pages were removed and left edges of those pages are still attached in the spiral notebook. |
| MGMZFY | VSC Examination | Side lighting revealed illegible indentations on the page following the removed pages in the K1 notebook. An ultraviolet examination of the paper used to prepare the Q1 note and the paper in the K1 notebook at 254, 313, and 365 nm resulted in consistent reactions. |
| MGMZFY | ESDA Examination | An ESDA examination of the page following the removed pages revealed indentations consistent with the hand printing on the Q1 note. |
| MGMZFY | Microscopic | The left edge of the Q1 note was consistent with the 1st paper stub in the K1 notebook. |
| MHY8QZ | VSC 6000 (UV-NIR) | Entries on page 5 of K1 and entry "I WILL KILL YOU" on Q1 were made with use the same ball pen ink or two ball pen inks with the same optical properties. |
| MHY8QZ | VSC 6000 (UV-NIR) | Papers of K1 and paper of Q1 have the same optical properties. |
| MHY8QZ | microscopic analysis | Characteristic black point on the bottom edge Q1 was determined. Analogical points are situated on bottom edges of K1 sheets - probably a marker-pen was used to make black line on folded sheets of K1. |
| MHY8QZ | microscopic analysis | The right edge of the piece of K1's page 4 and the left edge of Q1 bear characteristic marks that confirm that they were one piece of paper. |
| MHY8QZ | indented writing - oblique light | On K1's page 5 the indented writing "I WILL KILL YOU" was revealed |
| MHY8QZ | VSC 6000 - mix image mode | The indented writing "I WILL KILL YOU" on K1's page 5 and entry "I WILL KILL YOU" on Q1 have the same topography and constructions of analogical letters. |
| NADVP4 | Macroscopic Examination | Similar page dimensions and ruled line spacing. Absence of at least 3 pages in K1. Ink spot on bottom edge of Q1 aligns with ink stripe on K1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| NADVP4 | Latent Indented Writing | Indentations seen with visible grazing light on Pg 7 of K1 agree well with handwriting on Q1. EDD examination of Q1 disclosed no indentations. Without disassembly, not practical to examine K1 for indentations using EDD. |
| NADVP4 | Printing Process | Microscopic appearance of ruled lines on obverse of Q1 differed from reverse, but agreed well with respective sides on page remnants in K1. |
| NADVP4 | Fracture Matching | Good agreement between left edge of Q1 and first remnant (page 4) of K1. Disagreement between left edge of Q1 and second (page 5) and third (page 6) remnants of K1. Fracture appears to be made by straightedge tearing due to straight line indentation running parallel to fracture on Q1. |
| NBPZE9 | Indented writing examination | Indented writings of "I WILL KILL YOU" are detected[sic] on the paper. |
| NBPZE9 | Oblique light of VSC 6000 HS | Which writes "3/2/15....worksheet" in the notepad K1 |
| NBPZE9 | Docustat-Electrostatic Document Analyzer | [No observations reported.] |
| NBPZE9 | Microscopic/ Macroscopic[sic] examination | It is also[sic] the detected edge of the Q1 matches with remaining part of the paper in the notepad K1 |
| NC6KHX | Microscopy | The paperlines on the note and those of the notepad pages are printed with offset printing. Examination of the ripping edges (notepad and threatening note). |
| NC6KHX | Transmitting light | There is a slight mismatch between the printed lines on the front of the note to the ones on the back. |
| NC6KHX | Extravizual examination | The paper of the threatening note could not be distinguished from the paper in the notepad. The black color on the lower edge of the note has the same appearance as the color of the black line that runs across the paper edges of the notepad. |
| NC6KHX | ESDA | No evidence was found. |
| NC6KHX | Oblique Light | No evidence was found. |
| NERXP2 | visual examination method | Threatening note(Q1) and notepad(K1) both have the same 17 horizontal stripes. Threatening note(Q1) and notepad(K1) both have black ink at the consistent position of the lower right corner. |
| NERXP2 | light penetrating method | The threatening note(Q1) and the first of three torn paper part of the notepad were put together and examined by light penetrating method. It is found that two pieces from separate locations are reconstructed to form a continuous section of paper to indicate a physical match. |
| NERXP2 | ESDA and overlapping comparison | By using ESDA, a handwriting impression, "I WILL KILL YOU", is developed on the first undamaged paper after 3 torn paper parts. The handwriting impression on the paper and notes on the Q1 document are matched by overlapping comparison. |
| NHQE3V | Visual (Macroscopic) | Q1 and pages of K1: Similar general appearance; Q1 appears to fit the size of the torn-off page from the page 4 stub in K1; Similar relative positioning of black mark at bottom edge of Q1 and page 3 of K1; the black mark appears throughout the pages of K1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| NHQE3V | Visual (Macroscopic) continued | Variation in line spacing among pages in K1; Line spacing of Q1 appears similar to page 4 stub of K1, and different from pages 1, 2, 3, 7, the page 5 stub and page 6 stub. |
| NHQE3V | Physical Match of Paper/Fibres (Microscopic) | Torn edge of Q1 appears to match to page 4 stub of K1; Random yellow fibres near torn edge of Q1 matches to those near torn edge of page 4 stub of K1. |
| NHQE3V | Indentations (Oblique lighting) | Indentations on page 7 of K1 that appear to correspond to the letters "I", "W" and the first "L" in the phrase "I WILL" in Q1. |
| NHQE3V | Paper (UV) | Q1 and pages of K1: Similar appearance under UV light |
| NVZHJG | Microscopic | Utilizing a LEICA MZ95 microscope and attached LEICA DFC550 camera, identified and captured matching fracture matches from the first spiral remnant to the questioned note. |
| NVZHJG | Comparison/Observation | Compared the pages of the notebook to the questioned note and observed a marker on the edge of all the pages in the same approximate location. |
| NVZHJG | Electrostatic (ESDA2) | Examined Exhibit 1(7) (page from the notebook with writing) for the presence of indented writing images using the ESDA2. Indented writing images from Q1 were present on Exhibit 1(7). |
| NVZHJG | Instrumental VSC6000/HS | Identified luminescent fibers present in the pages of the notebook and Q1. Several of those fibers were observed and recorded as being cut from the first spiral remnant and Q1. |
| P8B68V | Scientific method in the stages of observe, describe, compare and make judgments that there is place oriented to the analysis of the research document support. | First it was verified the quality of paper to determine whether it is common or have any brand in particular view to the after light and ultraviolet light, then analyzed its surface, its sizing and its thickness, to establish possible differences between one and other leaves.[sic] |
| P8B68V | Macroscopy and microscopy with lighting diascopic and episcopic and ultraviolet light, for general and detailed exploration of sizing or gluing of papers questioned[sic] and disputed to verify the integrity of the support. | Cut each of the three fragments of the questioned book paper is analyzed to determine the perfect case between their edges, using high increases the stereoscopic binocular with direct and oblique light and the VSC6000/HS, to observe paper filaments protruding from characteristic way at their edges and determine their origin or not.[sic] |
| PB6LLP | ESDA | Indentations on the note pad "K1" reading "I WILL KILL YOU". |
| PB6LLP | VSC: Magnification and Oblique light | Indentations on the note pad "K1" reading "I WILL KILL YOU". |
| PB6LLP | VSC: Magnification and Flood light | Physical match on the threatening note "Q1" and the first torn page on the note pad "K1" |
| Q9F6WU | Microscopic/Macroscopic Examination | (a) the black marking at the bottom of Q1 aligned up with the black marking at at[sic] the bottom of K1. (b) both Q1 and K1 were of the same dimension. (c) The first torn out edge - left margin in K1 aligned up with the left edge of note Q1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| Q9F6WU | Ink Examination (ultra-violet, infrared - absorption/luminescence, visible) | There were no significant differences observed between the note (Q1) and the (3) torn out edge - left margins as well as the first few pages after the torn out edges - left margins of K1. |
| Q9F6WU | Indented writing - Electrostatic, obliques, other. | Black writing 'I WILL KILL YOU' was seen on page after the (3) torn out edges of K1. White writing 'I WILL KILL YOU' was seen on note Q1. |
| QBQ3AC | Microscope | Paper fibers observed crossing over Q1 to K1. Surface markings crossing over from Q1 to K1 and from bottom edge of Q1 to K1 consistent. Striation marks on K1 compared to Q1 but not conclusive. Edge pattern on Q1 & K1 matched. |
| QBQ3AC | ESDA | A faint impression of the text on Q1 was found on a sheet within K1 - overlay super imposed where an indented impression was visible. |
| QBQ3AC | VSC - UV light | Both Q1 & K1 sheets fluoresced similarly - class similarity. |
| QGEKTU | MICROSCOPIC | Facing the edges in the threatening note, with cuts of detached leaves of the book, in 4th sheet positions, 5th and 6th leaf sheet, we see that the edges fit perfectly with the cutting blade in 4th position, corresponding to first of three leaves cut out of the book. |
| QGEKTU | MACROSCOPIC | There ducts or channels caused by pressure on the threatening note with the pencil, are products that correspond to the text of the manuscript being studied.[sic] |
| QGEKTU | MACROSCOPIC | At the edge of the bottom right of the threatening note, is blask[sic] ink, which fits perfectly with a vertical line drawn at the edge of the notebook. |
| QGEKTU | INK EXAMINATION | The ink used to prepared[sic] a manuscript holds similar physical characteristics of the ink found in the manuscript sheet sheet[sic] 7 of the notebook. |
| QL3CUV | Microscopy Comparison Techniques (& Measurement) | Tears correspond i.e. Physical fit and measurements. Felt-tip line corresponds when note is placed in notepad. |
| QL3CUV | ESDA | Indented impressions from the writing on the note found on page in notepad (next to tears) |
| QL3CUV | VSC 6000 | IR/UV - Felt-tip and pen - same reaction |
| QMJGCU | Observation macro | Observation of class and individual characteristes[sic] in the known sample and/or cuts in the paper sheets. |
| QMJGCU | Videocomparation[sic] Spectral[sic] (vsc 6.000) | The printed characteristics of item K1 are consistent with those of Item Q1. |
| QMJGCU | Comparison Techniques | [No observations reported.] |
| QMJGCU | Stereomicroscopy | [No observations reported.] |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|-----------------------------------|---|
| QPLJYB | Macroscopic | Item 1 (K1) is a 5" X 4 1/2" spiral note pad with 146 pages and three paper remnants remaining; identified as follows: Item 1.1 to 1.3 (K 1.1-1.3): First three remaining pages. Item 1.4 to 1.6 (K 1.4-1.6): Three remnants remaining on the spiral binding where pages appear to have been torn with an apparent straight edge. Item 1.7 (K 1.7): Fourth remaining page in the notepad with writing. Item 1.8 (K 1.8): Remaining pages in the notepad. Item 2 (Q1) is a threatening note bearing the words "I will kill you". There is a torn edge on the left side of the page. The paper size and markings (i.e. lined note paper) is consistent with the paper size and markings in the Item 1 (K1) notepad. |
| QPLJYB | Oblique lighting | Portions of text from Item 2 (Q1) was observed on the fourth remaining page, Item 1.7 (K 1.7), in the Item 1 (K1) notepad |
| QPLJYB | VSC ESDA | Prepared ESDA test strip. Ran ESDA examination on test strip and fourth remaining page in the Item 1 (K1) notepad. The text from Item 2 (Q1) is recorded on the fourth remaining page, Item 1.7 (K 1.7), of the notepad in the form of indented impressions. |
| QPLJYB | UV and VSC side lighting | Portions of the text from Item 2 (Q1) again observed on the fourth remaining page in the Item 1 (K1) notepad. Limited fluorescent[sic] fibers are very short and do not transect torn edges. |
| QPLJYB | Microscopic | Microscopic examination of torn edge from Item 2 (Q1) compared with torn edges of the three remaining paper remnants in Item 1 (K1). The tear pattern from the first paper remnant, Item 1.4 (K 1.4), matches the torn edge on Item 2 (Q1) and was identified as the source for the questioned document. Items 1.5 and 1.6 (K 1.5 and K 1.6) were eliminated as the source for the questioned document. |
| QV9P27 | MICROSCOPIC EXAMINATION | A microscopic examination revealed that the tear edges on the threatening note (Q1) correspond with the tear edges of the first torn page on the note book (K1). A black mark on the note (Q1) fits perfectly with the existing black mark on the note pad. |
| QV9P27 | ESDA TECHNIQUE | An ESDA technique has deciphered indented writing "I WILL KILL YOU" which was compared with the writing on the threatening note. |
| QV9P27 | VSC TECHNIQUE | Video Spectral Comparator (VSC) has revealed some indentations on the note pad through side lighting. A side-by-side comparison of the comparison of the tear marks has revealed strong correspondences between the edges of the threatening note (Q1) and the note pad (K1). |
| R2T2FY | Using sidelight and oblique light | We see intended[sic] writing "I will kill you" in the notepad k1 which similar to sentence in the threading[sic] note |
| R2T2FY | Microscope | We saw black ink at the end of the threatening note q1 which is similar to the black mark in the note pad k1 |
| R2TRE8 | Macroscopic/Visual | Macroscopic Visual - To check similarities in paper, colour, size, guidelines, creasing and location of ink stain between K1 and Q1. |
| R2TRE8 | Microscope | Microscope - To verify[sic] the presence of a physical fit along the tear line of the paper in Q1 and the strip of paper, 4th in from the front in K1. |
| R2TRE8 | Indented Writing/ESDA | ESDA - Indentations of the writing on Q1 were found on the front of page (numbered 7) in K1. |
| R2TRE8 | Ultraviolet/VSC | VSC - Use of UV light to verify fluorescence the same for the paper in K1 and Q1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| R3CFYM | ESDA | Examination of the 7th page of the notepad revealed indented marks of writing. The indented marks of writing were found to be superimposable to the handwriting on the threatening note. |
| R3CFYM | Oblique lighting | Indented marks of writing were deciphered on the 7th and 8th page of the notepad. |
| R3CFYM | Microscopic Examination | The torn edge of the threatening note could be physically fitted together with the torn edge of the paper fragment of the 4th page of the notepad. |
| R3CFYM | Microscopic Examination | The threatening note and the inner pages of the notepad were agreed in color, height, design of background printing and unique dirt marks (ink stains on the lower right hand edge of the page). |
| R3CFYM | Macroscopic Examination | The 4th, 5th and 6th pages of the notepad were ripped out, paper fragments of 4th, 5th and 6th pages were still attached to the spiral ring. |
| R4XFUW | Side Lighting | Indented writing on page from Item K1 |
| R4XFUW | ESDA | Indented writing on page from Item K1 |
| R4XFUW | Microscope | Torn fragments from 1st page fragment from Item K1 that indicated that page fragment and Item Q1 were at one time one sheet of paper. |
| R7QM6G | VSC 6000 | Physical Match marked Q1 originated from the note pad K1(a). K1(b) and K1(c) did not physically match the note. |
| R7QM6G | Oblique Lighting | Side lighting was used for the detection of indentations. |
| R7QM6G | VSC 6000 | Super imposing an image for matching of the indentations and the original writing. |
| R7QM6G | ESDA 2 | The latent indented words "I will kill you" become visible on "K1" using the electro static detection apparatus |
| RAQGWB | Macroscopic | Black fluid ink on edge of Q1 aligns with Black fluid ink mark on K1. |
| RAQGWB | VSC - Microscopic/UV | Fracture match of Q1 to K1 torn edges. UV reactivity of Q1 and K1 similar. |
| RAQGWB | Indented writing - Oblique | Impressions on K1 sourced to Handwriting on Q1. |
| RAQGWB | Macroscopic | General measurements of Q1 and K1. |
| RFVRXX | Examine with VSC 6000/HS | The Q1 and K1 have identical color, brightness, opacity and UV fluorescence of paper samples. |
| RFVRXX | Examine with oblique light | 1.No decipherable or unexplainable indented impressions were observed on the Q1 and K1 paper samples. 2.Using oblique lighting, it could disclose vertical cut/indent markings on the paper surfaces of the K1 notepad. |
| RFVRXX | Natural light and visual inspection including utilization of a microscope | 1.The Q1 and K1 have same the surface texture and printing image quality of the paper samples, for example ruled line width, spacing, and deformed patterns. 2.The Q1 and K1 found consistent black traces located on tail edge of the paper samples. 3.Matched the Q1 and K1, and cut edge abnormalities appear along the vertical edge of the match body as small irregular cuts or tears. The Q 1 paper was in the right cut portion of the K1 notepad paper. 4.The Q1 and K1 have similar dimensions (length, and thickness) of the paper samples. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|--|
| RJDFMG | Microscopic Examination | A visual match of the paper fibers was observed between the tear of the left hand edge of the Q1 paper and the first of three remaining paper portions in the spiral of the K1 booklet, numbered K1.1. Rulings found on the Q1 paper were consistent in color and position as that on K1. |
| RJDFMG | Oblique light/ESDA examination | Indentations matching the text found on the Q1 note were found on pages K1.4 and K1.5 of the K1 booklet utilizing oblique light and ESDA. Examination of the K1.6 page (preceding K1.4 and K1.5) revealed no indentations. |
| RJDFMG | Infrared/Ultraviolet examination | Optical examination revealed no appreciable differences between Q1 and K1.4 with respect to paper, rulings, or writing inks, however, the writing inks did appear to have a slight variance in reaction, so a destructive examination is recommended to preclude any chemical differences. |
| RJDFMG | Micrometer | The Q1 and K1 papers were found to be the same thickness. |
| RJX7RV | ToolScan (digital comparison microscop[sic]) | corresponding tearmarks |
| RJX7RV | ESDA (electrostatic detection apparatus) | identical text as on threatening note |
| RKM6UE | ESDA2 | Indentations revealed the words "I WILL KILL YOU" which was slightly faint |
| RKM6UE | VSC6000 (UV Light) | Substrate[sic] characterization - both K1 and Q1 are UV bright |
| RKM6UE | VSC6000 (Side Light) | Indentations revealed the words "I WILL KILL YOU" which was slightly faint |
| RKM6UE | VSC6000 (Flood Light) | Superimposing and physical matching of Q1 and K1 to corroborate indentations |
| RZM8R8 | Visual exam (Microscope, Scanner) | Visual exam and scanned Exhibits Q1 and K1 for documentation purposes. Then removed pages and designated as 1-3, spiral remnants of pages 4-6, and pages 7-9 from K1 for further examination. |
| RZM8R8 | Indentation exam (ESDA) | Negative results for Q1 and K1 (pages 1-3). Positive results for K1 (pages 7-9). Indentations recovered on K1 (pages 7-9) appear to read "I WILL KILL YOU", which is the same entry on Q1. This indicates that K1 (pages 7-9) was beneath Q1 when it was written. |
| RZM8R8 | Visual exam (Microscope, Miscospe, VSC) | The torn edges of Q1 and K1 (spiral remnants of pages 4-6) were examined and compared. Q1 originated from (was once part of) K1 (notepad), specifically the spiral remnant of page 4. |
| RZM8R8 | Visual exam (Microscope, Miscope,VSC) | Black line of liquid ink present along the bottom right edge of K1(notepad) and the bottom right portion of K1 (pages 1-3 and 7-9), is also depicted in the bottom right portion of Q1. |
| T2T9RW | Microscope | To observe fracture pattern between K1 p4 and Q1. |
| T2T9RW | ESDA | To observe indented writing on K1 p7. |
| T2T9RW | VSC | To observe paper fiber crossings between K1 p4 and Q1. |
| T2T9RW | Sidelight | To observe indented writing on K1 p7. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| TCTHW9 | Video Spectral Comparator (Foster and Freeman VSC 6000) Stereo Microscope | I compared each of the three attached remnants of pages within the spiral notebook to the edge of the questioned page. The edge of the questioned page matches the first of the three remnants (which would be the fourth page of the spiral if no other pages were removed.) The edge match conforms to the angle of the tear from the edges of the page and the remnant and to minor edge tear features. The angle is also a close feature of the other two remnants but the edge tear features are strong evidence that the questioned page, Q1, was torn from this remnant in the notepad, K1. Illustrations attached. [Illustrations were not included with the report]. |
| TCTHW9 | Electrostatic Detection Apparatus (Foster and Freeman) | Examination for latent writing impressions, analysis of questioned note and remaining page under torn remnants performed. All pages of notebook examined with incident lighting. No latent writing impressions of value were detected. Copies of ESDA restorations are attached. [Copies were not included with the report]. |
| TCTHW9 | Video Spectral Comparator (Foster and Freeman VSC 6000) | Examination performed of ink of note and ink on page in notebook. The questioned ink and the ink in spiral notebook, headed 3/2/15, match in all VSC responses. This is circumstantial evidence of a connection of the questioned page to the notebook. |
| TCTHW9 | Video Spectral Comparator | Examination performed of ink on edge of note and ink on edge of page in notebook. The mark on the questioned page matches all VSC responses as the marks on the edge of the notebook. This, together with the position of the mark on the questioned page that matches the position of the marked edge of the spiral pages is additional evidence that the questioned page was removed from the spiral. |
| THDE6B | Desk Microscope | The black mark on Q1 matched that found on document K1 |
| THDE6B | VSC | Fibre damage on Q1 were accounted for on the torn part of document |
| THDE6B | ESDA | The writing appeared on the next page of the book K1 |
| TJ8ZWG | VSC 6000 (Flood Light) | The questioned note physically matches with the notepad where the questioned note was removed from the notepad. |
| TJ8ZWG | VSC 6000 (Side Light) | The indentation of writing "I WILL KILL YOU" from the questioned note appears on the notepad. |
| TJ8ZWG | ESDA2 | The indentation of writing "I WILL KILL YOU" from the questioned note appears on the notepad. |
| TKNKZ6 | Physical Measurements | i. Dimension of paper - "Q1": ~89.0 mm x 138.5 mm. "K1": P.1: ~102.0 mm x 138.5 mm. P.4: ~14.5 mm x 138.5 mm. P.5: ~14.5 mm x 138.5 mm. P.6: ~14.5 mm x 138.5 mm. ii. Thickness of paper - "Q1": ~0.07 mm. "K1": P.1: ~0.07 mm. P.2: ~0.07 mm. P.3: ~0.07 mm. P.4: ~0.07 mm. P.5: ~0.07 mm. P.6: ~0.07 mm. P.7: ~0.07 mm. P.8: ~0.07 mm. iii. Black ink stroke at the bottom edge of "K1". "Q1": ~21.0 mm from the right edge. "K1": P.3: ~21.0 mm from the right edge. P.7: ~21.0 mm from the right edge. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| TKNKZ6 | Microscopic | i. Physical matching of torn edges. Torn edge of "Q1" was found to be matched with the torn edge of P.4 of "K1". ii. Print quality of ruled lines. For all the sheets of paper between the front cover and the red divider in "K1", print quality of the ruled lines on the front side was found to be better than that of the reverse side. In "Q1", print quality of ruled lines on the front side was also found to be better than that of the reverse side. iii. Printing ink dots. Printing ink dots were found above some of the ruled lines in both sides of pages 1-8 of "K1" and in "Q1". |
| TKNKZ6 | Indented writing | i. Electrostatic. The words "I WILL KILL YOU" were deciphered from the ESDA lifting of P.7 of "K1". ii. Oblique lighting. A faint impression of some strokes was noted on P.7 of "K1". No words could be deciphered from that impression. |
| TKNKZ6 | Ink examination using Video Spectral Comparator (VSC) | i. Handwriting ink. No differences in optical properties between the ink of the handwriting on P.7 of "K1" and that on "Q1" were observed. No writing offset (or ink transfer) on reverse side of P.3 was noted using different wavelengths of light. ii. Printing ink. No differences in optical properties between the printing ink of ruled lines on "Q1" and those on pages 1-8 of "K1" were observed. iii. Ink stroke on the bottom edge of "K1". No differences in optical properties between the ink on the bottom edge of "Q1" and those on "K1" were observed. |
| TKNKZ6 | Paper examination | i. VSC. No differences in optical properties between "Q1" and pages 1-8 of "K1" were observed. ii. Watermark. No embedded watermark was found in "Q1" and in pages 1-3 and 7-8 of "K1". iii. Paper fibre pattern. No distinguishable paper fibre pattern was observed in "Q1" and in pages 1-3 and 7-8 of "K1". iv. Paper fibre match. Paper fibres on the torn edge of P.4 of "K1" were noted to be matched to those on the torn edge of "Q1". |
| TNL2BE | Microscopic Examination | tear patterns (Q1) similar with 1st torn page in notepad (K1), indentations observed in notepad |
| TNL2BE | Indented writing | Oblique - indentations observed, electrostatic - text from Q1 detected on one page from K1 notepad. |
| TNL2BE | VSC-IR,UV | IR - paper fibers examination - fibers similar in Q1 and K1 at torn edges UV - similar properties between Q1 and K1 |
| TNL2BE | Micrometer | Similar thickness measurements. |
| TUATE2 | Microscopic/Macroscopic exam/comparison | For Q1 and K1, page 4 (the first torn segment in K1) the following features match: paper size/type, colour, edge/guillotine markings, corner cuts and punched holes. A small black in[sic] mark on the bottom edge of Q1 also matched those on K1, pages 3 and 7 in terms of location and shape. |
| TUATE2 | Physical matching comparison (macro/micro) | The tear profile along the left edge of Q1 corresponds perfectly with the tear profile along the right edge of K1, page 4 (both when viewed from the front and reverse, as well as diagonal tears through the paper). In addition, individual fibres and fibre bundles were observed along the tear profile that appear to 'cross-over' between Q1 and K1, page 4. The commercially-printed ruled lines on Q1 and K1, page 4 were also observed to align. |
| TUATE2 | Spectral examination (VSC - IR luminescence) | Luminescent fibres were visualized along the torn edges of Q1 and K1, page 4. Several fibres/fibre bundles were observed that appear to 'cross-over' between the two items (as per the above observation). |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| TUATE2 | Indented writing - EDD (ESDA) examination | Latent indentations corresponding exactly to the visible writing on Q1 were developed on K1, page 7. |
| TUATE2 | Additional observations using above methods | Q1 was also compared to Item K1, pages 5 and 6 (the other two torn segments in K1). The general characteristics of these segments also matched however the tear profile and printed ruled lines did NOT match with several differences being observed. |
| TZHLKD | Flood lights (VSC 6000) | physical match on the torn pages. |
| TZHLKD | Electrostatic detection (ESDAO[sic]) | Indented writing of the reading "I WILL KILL YOU" observed on the first page after torn page dated 3/2/15 |
| TZHLKD | Side lights (VSC6000) | Indented writing "I WILL KILL YOU" observed after torn pages dated 3/2/15 |
| U9LN9M | Magnification and flood light for physical match | A physical match between "Q1" and "K1" was positive ("Q1" was matching with "K1"). |
| U9LN9M | Electrostatic detection apparatus for indentations | Indentations of the questioned note "Q1" reading "I WILL KILL YOU" were observed on the first page immediately after the remnants of the cut pages on the notepad "K1" |
| U9LN9M | Magnification and oblique (side) light for indent | Indentations of the questioned note "Q1" reading "I WILL KILL YOU", were observed on the first page immediately after the remnants of the cut pages on the notepad "K1". |
| UKKC9X | Macroscopic/Microscopic | Ink deposits on bottom edges of pages |
| UKKC9X | ESDA & oblique lighting | Indented writing present in K1 notebook - corresponds to text from Q1 note |
| UKKC9X | VSC, Microscopic | Side-by-side comparison of torn edges with magnification, transmitted, and regular lighting; magnification and alternate lighting to observe crossing of paper fibers - Contour and feathering of torn Q1 edge correspond to torn edge of page 4 in K1 notebook. |
| V8CWZ8 | Electrostatic Detection Apparatus (ESDA) | ESDA exam of standard designated K-1 7. Impression evidence recovered interpreted as "I WILL KILL YOU". Original ESDA result labeled K-1 7.1 and returned to investigator. Copies made for case file and to attach to evidence envelope. |
| V8CWZ8 | Integral parts matching | Q-1 was once an integral part of K-1 notebook, specifically from paper remnant labeled K-1 4. Paper fiber matches can be seen on the front of K-1 4 vs. Q-1 between the 7th & 8th line up from the bottom of the documents. Also, matches observed on the back of K-1 4 vs. Q-1 above the first line from the top of the documents. |
| V8CWZ8 | Microscopic techniques | Q-1 is similar in appearance and dimension to the sheets of the K-1 notebook. The Q-1 displays a black ink mark on the bottom right of the document which is similar to how many of the other K-1 notebook sheets are marked. |
| VAUDTC | Visual | Spiral notebook, no manufacturer's data, black mark across bottom edges, many pages stuck together at punched holes for spiral, loose pages, three stubs, impressions into seventh lined sheet, printed lines and edges and black marks align between Q1 and K1, fracture contour information. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|-----------------------------------|---|
| VAUDTC | stereomicroscopic | Q1 and K1 writing done with black ballpoint pen, impressions present in page seven and some further pages, two stubs are not consistent with fracture contour of Q1, one K1 stub is consistent with Q1 in fracture contours, surface configurations, and fracture line paper fiber distribution. |
| VAUDTC | electrostatic detection apparatus | No handwriting impressions on first three sheets of lined paper or on Q1, Q1 handwriting found impressions into seventh page of K1, no impressions of handwriting not already seen found throughout the remainder of the notebook |
| VAUDTC | spectral imaging | No further handwriting, not already seen, found throughout the notebook, or on item Q1. |
| VAUR9C | Flood Light (VSC Instrument) | Physical match at the edges of both the note and the notepad. |
| VAUR9C | Oblique Light (VSC Instrument) | Indented writing observed on the first page after torn pages, ie on the page dated 3/2/15 on the notepad. |
| VAUR9C | Electrostatic Detection (ESDA) | Indented writing observed on the first page after torn pages, ie on the page dated 3/2/15 on the notepad. |
| VC26TY | Microscopic | I viewed the Q1 and K1 under a microscope and compared the torn edges from both and found that the edges fit. |
| VC26TY | Electrostatic (ESDA) | The letters "LL" appear in the middle of the page (K1) and when I compared found that they are similar to that of the word "WILL" on the document in question (Q) |
| VC26TY | Comparison techniques | I compared Q1 to the first torn page of K1 and found similarities in the torn edges of both. |
| VF2DYU | Using Sidelight & oblique light | We see intended writing simulate to the sentence "I will kill you". [sic] |
| VF2DYU | Using microscope | We see black ink in the end of the threading[sic] note q1 which similar to black mark in notepad k1 |
| VLMCP3 | Digital Microscope | Observation of macro and micro characteristics of Q1 with torn edges of the notebook. Measured lines, space, height and width of paper |
| VLMCP3 | Side light | Looked for indented writing, watermarks. |
| VLMCP3 | Alternate Light sources | Examined fibers within the Q1 specimen and compared to the known sheets of torn paper to see if any fibers crossed over and could be matched. |
| VM3WTR | macroscopic | Basic measurements of K1 and Q1 paper (length, width, margins, line spacing) and distance of black marker/sharpie from bottom right corner or[sic] paper - found to be consistent. Noted pages missing from K1 - three pages torn out of notebook leaving remnants in K1. Noted Q1 has torn appearance on left side |
| VM3WTR | microscopic | Examination of the three paper remnants from K1 to the torn edge on Q1 for a possible fracture match. Found one of the paper remnants from K1 matches the tear pattern on Q1 |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|--|
| VM3WTR | indented writing (oblique and ESDA) | No visible indentations on Q1 or on first remaining page in K1 after the missing pages, some indentations noted below this page. Processed front and back of Q1 for indented writing with ESDA (dry and humidified) with no results -processed the front and back of the first remaining page in K1 after the missing pages with ESDA (dry and humidified) with positive results - the indentations are consistent with the note in Q1 |
| VM3WTR | ink examination (VSC-various light sources and setting) | Used VSC to examine inks on Q1 and K1 (from the first remaining page in K1 after the missing pages) and could not differentiate inks |
| VM3WTR | paper examination (VSC-various light sources and settings) | Used VSC to examine paper from Q1 and from K1 and could not differentiate papers |
| VU4M34 | Microscopic, magnification, comparison techniques, oblique lighting. | Teal green spiral notebook (Cover is plastic, and backing is cardboard). 5.5" x 4.5". Inside notebook contains three plastic dividers (pink, teal, and blue). Out side bottom edge of notebook contains a black vertical line created by a felt tip pen (location of pen marking, is 3 1/4" from spiral binding). Approx 3/8" thick. Inside: lined white paper. No indented writing was evident on the pages in the notebook with (technique: oblique lighting). |
| WADVJX | Side-lighting | Oblique lighting applied to notebook page following the missing pages to determine if there is evidence of secondary impressions |
| WADVJX | ESDA | Development of impressions using the electrostatic detection device which resulted in a positive lift which represented the hand printing of the QD. |
| WJXUXM | Visual observation | Black mark that is on the bottom right hand side of note "Q1" is similar to the black mark on the note pad "K1". |
| WJXUXM | Visual Observation | The note pad "K1" was having three missing pages, which indicates that they were cut out from the note pad. The size of the "Q1" note when merged with the missing pages in "K1" is of the same size as the original pages in the note pad. |
| WJXUXM | Video Spectral Comparator (VSC) | Notepad "K1" had indentation which were observed using right hand side lights |
| WJXUXM | Electrostatic Detection Apparatus (ESDA) | The indentations observed on the note pad "K1" were lifted using ESDA with visible writing "I WILL KILL YOU" on it |
| WJXUXM | Video Spectral Comparator (VSC) | The indentation observed from "K1" using VSC were lifted using the ESDA instrument which matched the writing "I WILL KILL YOU" on "Q1". This indicates that the written note "Q1" was part of the removed pages from the note pad marked "K1" |
| WJXUXM | Video Spectral Comparator (VSC) | The lifted image were compared to the note "Q1". They both had similar characteristics. When superimposed the two document fit in to each other. |
| WJXUXM | Video Spectral Comparator (VSC) | The writing inks on the two documents were having similar reaction of fading @ 645nm. |
| WNVLHZ | Visual examination of documents | On the notepad "K1" we notice the existence of a black line on the bottom edge of pages. On the sheet "Q1", there are black visible points corresponding and at the same size than[sic] the line visible on "K1". In the notepad "K1", two missing pages with vertical traces of damage on the whole length. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| WNLVHZ | Examination for indented writing latent marks with "Vacuum Box" | The result of searching for indented writing on pages 1, 2 and 3 of the notepad "K1" was negative. After examination for indented writings, we found corresponding writings between the page 6 of the notepad "K1" and the writings of the sheet "Q1". |
| WNLVHZ | Examination under high magnification and direct light with VSC 6000 | The trace of damage on sheet "Q1" correspond to the one of the first missing page of the notepad "K1". |
| WPLHTR | macroscopic | K1 is a spiral bound notepad, divided by 3 inserted plastic sheets into 4 sections, sections 3 and 4 have 38 leaves each, section 1 has 34 leaves and 3 stubs, section 2 has 37 leaves, each paper page is ruled. A fibre tip line has been drawn on the mass of the notepad on the bottom edge from plastic top cover to cardboard back. The 3 stubs are between leaves 3 and 4. Leaf 4 has an entry in black ballpoint ink written in (mainly) cursive writing and digits. This is dated as 3/2/15. The 3 stubs are narrower at the top edge than at the bottom edge, the top bottom and 'spine' edges are machine cut, the other edges are torn. Q1 is a ruled leaf with 3 machine cut edges and a torn left hand edge. The paper is not rectangular, the top edge is wider than the bottom edge. The paper height is exactly the same as the paper height of the notepad. The ruling is exactly the same as the notepad. The paper is closely similar in colour and weight as that in the notepad. There is a fibre tip ink mark on the bottom edge of the leaf in the same position as the mark on the notepad. The handwriting on Q1 is in capital letters in black ball point ink. |
| WPLHTR | Microscopic Examination | There is an exact mechanical fit of the torn edge of Q1 with the torn edge of the top stub in K1. There is not a mechanical fit of the torn edge of Q1 with the torn edge of the middle stub in K1. There is not a mechanical fit of the torn edge of Q1 with the torn edge of the bottom stub in K1. |
| WPLHTR | Indented writing oblique light | There are indented impressions of the writing of Q1 on the page dated 3/2/15 in K1. They are in very close alignment. |
| WQYGYH | VSC 6000 Flood light | Physical match of note pad and note was positive. |
| WQYGYH | VSC 6000 Side light | On the hand written page of the note pad there were indentations. |
| WQYGYH | ESDA | There were indentations on the hand written[sic] page of the note pad. |
| WZNT9U | Initial Assessment | Observed indented writing (IW) on page 7 of K1 notebook using side lighting. Examined torn edge of Q1 document. Using microscope to examine the handwriting on Q1 document, noted handwriting was freely and naturally prepared. |
| WZNT9U | ESDA | ESDA was positive for IW on page 7 of K1 notebook, which overlaid with the handwriting observed on Q1. |
| WZNT9U | Cut/Torn Edge Comparison | Torn edge fracture of K1 page 4 and Q1 are consistent. |
| WZNT9U | Video Spectral Analysis - Torn Edge Comp | Using the VSC 6000 was able to observe fluorescing fibers that started in the K1 page 4 and continued into the Q1 page. |
| X383WL | PHYSICAL EXAMINATION OF THE ROLE | I made the respective analysis of media on paper was verified: The state of conservation (K1) and (Q1), the determination of its overall dimensions (length, width and thickness) and their specific qualities (cut, color, watermark, opacity, surface gloss, stiffness, weight, etc. [sic] |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|---|
| X383WL | EXAMINATION OF THE EDGES | It was carried out the analysis of the characteristics of those songs or selvages, if they have some stain which is located in the bottom features, the color of the surface of the sheet with the edge, there is uniformity. [sic] |
| X383WL | GROOVES OR DUCTUS[sic] | Performed the analysis through the comparison video souts[sic] or relief and seen on the surface. |
| X7KJWX | Microscope | The writing instrument used on "Q1" is a ballpoint pen |
| X7KJWX | Video Spectra[sic] Comparator (VSC) | Side lights revealed some indentations on the document "K1" that matches the writing on the questioned document "Q1" |
| X7KJWX | ESDA (Electrostatic Detector Apparatus) | With the use of the ESDA, the analysis has revealed to me the indentations on document "K1" that matches the information or the writing found on the questioned item "Q1" |
| X8GZ9U | Signaletico[sic] method and scientific method | I used signaletico[sic] method supported by the scientific method comprising the steps: physical observation of the document, indication and marking of hallmarks, found feature comparison and interpretation of results or findings. |
| X8GZ9U | Direct and indirect optical technique and measurements | Direct (human eye) and indirect optical technique (with the use of optical instruments in good working order such as magnifiers different magnifications, estereomicroscopio, ultraviolet camera and video spectral comparator applied). With different kinds of light (natural, ultraviolet and infrared) in ground position (side), transmitted light and incident light is also applied. Digital measurements were also performed with the software application video spectral comparator. [sic] |
| X8GZ9U | Physical analysis of fibers and profiling cuts | They were observed, analyzed and compared the fibers that make up the role of the threatening note, of the order sheets of notebook and cuts, establishing correspondences presenting its configuration, thickness and position or location. Observed the profile of each cut notebook and threatening note with the help of software spectral comparison video that I made measurements of the spacing of the cuts, the threatening note and notebook sheets, I found correspondences between notes. The threatening note was originated from the first cut of the notebook. [sic] |
| X8GZ9U | Optical analysis of the infrared spectrum and latent written analysis | When the texts of the threatening note and appearing on notebook sheet were exposed to infrared light of 925 nm showed the same absorption behavior. When exposed spellings leaf notebook infrared light at a wavelength of 725 nanometers, using ground or oblique light, the ductus[sic] very similar graphics were observed at the letters I, W, LL, K u Y and appearing in the threatening note. |
| XGQP4Y | Visual Examination | Positive for Impression |
| XGQP4Y | Oblique Lighting Exam | Positive for Impressions. Not Identifiable. |
| XGQP4Y | VSC 6000/HS | Positive for Impressions utilizing various light sources, magnification, Integration, percentage of IRIS and imaged width to identify the impressions on Document Q-1. |
| XGRKPQ | Microscope (side lighting) | slight indentations observed on page in K1 with handwriting |
| XGRKPQ | ESDA Q1 & K1 | (-) ESDA Q1 (+) ESDA (K1) front of page ESDA observed (+) ESDA (K1) back of pg Q1 |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|--|
| XGRKPQ | VSC | Compare Q1 edge to cut remnants (3) in K1 possible match to 1st remnant in K1 |
| XGRKPQ | ALS (pattern match & cut) fibers match | (+) fracture match Q1 to 1st remnant in K1 |
| XTK44V | Stereo Microscope, Scanner | Tear pattern match between first torn piece in notepad and questioned note. |
| XTK44V | ESDA, oblique lighting | Impressions developed on pages in notepad match the wording of the questioned note. |
| XTK44V | UV lighting, Transmitted light, paper thickness guage[sic] | Consistencies observed between Notepad and Note. |
| XZ3LFH | ESDA test | The latent indented words "I will kill you" become visible on "K1" using the electro static detection apparatus. |
| XZ3LFH | Microscopy using the VSC 6000 | Magnification and incident light illumination was used to observe the torn paper fibres in order to conduct a physical match. The paper fibres from the threatening note marked "Q1" matched the paper fibres from the first torn page of the notepad marked "K1.1" by the examiner. |
| XZ3LFH | VSC 6000 light sources | Side lighting was used for the detection of indentations. |
| XZ3LFH | VSC 6000 | Using the method of super imposing an image for matching of the indentations and the original writing. The image from the results of the ESDA test conducted on "K1" ("I WILL KILL YOU") was super imposed on the image of "Q1" ("I WILL KILL YOU") |
| XZ3LFH | Microscopy using VSC 6000 | A black ink mark was observed at the bottom of "Q1". The placement and size of the black ink mark at the bottom of "Q1" corresponds/matches the black line drawn at the bottom outside of the notepad marked "K1". |
| Y69E8T | Microscopic | Comparison of fracture edges |
| Y69E8T | Fracture edge comparison | Scan & enlarge - side by side comparison |
| Y69E8T | ESDA | impressions found matching writing on Q1. |
| Y69E8T | Photographs | Close up fracture edges |
| Y69E8T | Visual Exam | Black edge mark found in relative position for Q1 & K1 |
| Y69E8T | measurements w/ micrometer | Approximately .003 for Q1 and K1 paper consistent between the two |
| YEUTUV | Oblique light/grazing light | Some characters of the threatening note are weakly visible on the first page after the removed sheets. |
| YEUTUV | Traces of separating | The edge line of the questioned note matches the edge line of the remnants of the first removed sheet perfectly. |
| YEUTUV | Collation marks | The collation mark of the questioned note fits to the mark of the notepad. |
| YEUTUV | Electrostatic detection of indented writings | Indented lines of the writing "I WILL KILL YOU" were detected on the first page after the removed sheets. |
| YEUTUV | Transmitted light | The questioned note showed some cloudiness and color as the paper of the notepad. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|---|--|
| YEUTUV | Spectroscopic analysis (IR, UV) | The ink entries of the questioned note and the note remaining in the notepad showed same behavior concerning IR luminescence and IR remission as well as UV luminescence. |
| YEUTUV | Paper thickness measuring | No significant differences in paper thickness |
| YK4WWQ | UV - Optical brightness | LW and SW UV light was used to determine if the Q note conformed in its optical brightness with the torn pages in the notebook. It did. |
| YK4WWQ | Paper fracture match | The page in question had a paper fracture match with the first torn page remnant in the notebook. |
| YK4WWQ | Indented writing. | The questioned writing was indented onto the page with the handwritten text, "3/2/15 Math: #1-25...". The indentations, "I WILL KILL YOU" aligned with the questioned writing. |
| YMQ6XY | Microscopic Comparison | Examined edges of torn page |
| YMQ6XY | Comparison | Compared torn edges on pages 4, 5 & 6. Page 4 was torn & used to create threatening note. |
| YMQ6XY | Indented writing | Indented writing was faint. |
| YMQ6XY | Oblique Lighting | Using oblique lighting, the letter "U" and part of "I" "W" observed |
| YMQ6XY | Visual | Using magnifying glass examined black-on bottom vertical line 1" from right side of book. |
| YMQ6XY | UV/IR | Compare inks - note to page 7 w/ writing appears to flouress[sic] the same |
| YMQ6XY | Ink Comparison | Appear to be similar |
| YN3924 | Indentation via sidelight | K1 revealed what could be the word "WILL", Q1 had no indentations |
| YN3924 | Indentation via ESDA | Q1 - no indentations, K1 had indentations, "I WILL KILL YOU" from writing on Q1 |
| YN3924 | Paper fiber microscopic | Matching paper fibers were discovered between Q1 & one of the three strips of paper left in K1. |
| YN3924 | Paper fiber microscopic UV | Matching paper fibers were discovered under, UV light, between Q1 & the same strip of paper left in K1. |
| YN3924 | Visual | Black ink line, drawer perpendicular to the sheets of paper, found at bottom rt. of K1. This black line matches with the black ink dot found at bottom rt of Q1. |
| YWZXKT | Microscopic Analysis (Microscope/VSC6000) | Analysis of paper fibers on paper edges. |
| YWZXKT | Indented writing (oblique lighting/ESDA) | Analysis of indentations and charge differences. |
| YWZXKT | Alternate Lighting Using VSC 6000 | Analysis of paper fibers on paper edges. |
| YZF8CK | Microscopy with the VSC 6000 | For magnification to observe the torn paper fibres using incident light illumination. Edge of the note marked as "Q1" was aligned with the edges of the remains marked "K1b" to "K1d" and physically matched the piece of the torn page marked as "K1b". |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| YZF8CK | Microscopy with the VSC 6000 | For magnification to observe the torn paper fibres using incident light illumination. The bottom part of the "note" marked as "Q1" was aligned with the bottom part of the page marked as "K1a" and physically matched the ink offset. |
| YZF8CK | Electrostatic detection with the ESDA 2 | For detection of indentations on the page "K1a". Indentations of the words "I WILL KILL YOU" were observed on the page marked as "K1a". |
| YZF8CK | An examination using side (oblique) lighting | For detection of indentations. Results were not very good. Very little indentations were observed. |
| Z2MKXR | STEREOMICROSCOPE | Increases above the 10 x, matched irregular cuts in their deltas and depressions, despite the cutting instrument dragged portion of the fibers in some areas. |
| Z2MKXR | COMPARISON OF VIDEO - VSC6000 | Analysis obverse and reverse printing features horizontal lines of the sheet, the caliber and continuity in different tones, print quality and minor key edge. |
| Z2MKXR | VSC6000 - MONOCHROME PICTURE LIGH[sic] | Shared on both sides of the sheet fibrils major key, extension, size areas. [sic] |
| Z2MKXR | VSC6000 - INCIDENTAL WHITE LIGHT | Pollution printing small dots seen in upper area of some horizontal lines and keep continuity on both sides of the sheet. |
| Z2MKXR | VSC6000 - right and left oblique light | Ductus or faint indentation especially straight lines full of writing threatening, location and size agree with leaf text "02/03/15". |
| Z2MKXR | SPOTLIGHT | Although not conclusive, the trademark of the lower edge with black marker notebook coincides with the dubitada sheet.[sic] |
| Z2Q4KV | Microscopic physical match | The 4th and the 5th page in the notebook was torn from the book. The "stub" of the 4th page remaining in the book is a physical match between the stub and the questioned note. |
| Z2Q4KV | Visual analysis of the page | The pages in the notepad are marked with a black pen of which the ink penetrated the paper. A similar mark appear on the questioned note which correspond in placement with the mark on the notebook. The size and design of the paper correspond with the size and design of the notebook's. |
| Z2Q4KV | Indentation test | ESDA test revealed the wording I WILL KILL YOU on page 6 of the notebook which matches exactly the wording on the questioned note. |
| Z2Q4KV | UV and IR lighting techniques | The paper of the notebook and questioned note correspond as both react similar under UV and IR lighting techniques. A paper fiber that luminescence was torn and parts thereof can be observed on both the notebook stub and the questioned note. |
| Z4BGGX | Macroscopic | Black ink mark on lower right corner of Q1 corresponds in general position with black ink line running down pages of K1. There are three torn page stubs occupying page positions 4, 5 & 6 in K1. |
| Z4BGGX | Indentations (ESDA/Oblique light) | Indentations of the text from the questioned note (Q1) were located on page 7 of K1. |
| Z4BGGX | Microscopic | Common tear pattern characteristics between the left edge of Q1 and the torn edge of the stub of page 4 in K1. Also matching severed fibres located across the tear. |
| Z4BGGX | Infrared Luminescence & Ultraviolet fluorescence | Severed fibres match across tear between Q1 and K1.4 |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|---|
| Z62GZ9 | VSC 6000, using flood light | Physical match was done between "Q1" and "K1". "Q1" originate from "K1" |
| Z62GZ9 | ESDA | Indentations were found on document marked "K1" |
| Z7J9EY | general observations | similar dimensions, ruled lines Q01 v K01 black mark on bottom of page Q01 similar to others in notebook |
| Z7J9EY | microscopy | physical fit observed (transmitted light shows areas of corresponding determination) |
| Z7J9EY | scanning/comparison | physical fit observed |
| Z7J9EY | oblique lighting | faint impressions of note Q01 on page 3/2/15 in K01 |
| Z8QNJK | VSC (Intergration[sic] of lights) | The physical torn document as a threatening note (Q1) from the Notepad (K1) matching with all the paper fibers to each other. |
| Z8QNJK | ESDA | Enhancement of pressure exerted on the threatening note (Q1) that caused indentations of the Notepad. |
| Z8QNJK | VSC (Intergration[sic] of lights) | Enhancement of the Question writing from the ESDA, and print it for presenting it as a demonstration for court purposes. |
| ZBUGGP | Examine fracture pattern of Q1 vs stubs left in notebook | Three pages were removed from the notebook. The stub for the 1st of those three pages shows the page was torn free at the last quarter inch of the sheet. The torn stub fits the torn section on Q1 |
| ZBUGGP | Indented writing examination on third following page | The 1st remaining page (following the three stubs in Q1 [sic]) shows at least partial indented images of entires[sic] on Q1 |
| ZF6X7Y | Side-Lighting/Oblique Lighting | Exhibit Q1 did not have any visible indentations. Exhibit K1 (pages 7-9) did have visible indentations. |
| ZF6X7Y | Electrostatic Detection (ESDA) | Results were negative with respect to handwriting indentations on Exhibit Q1. Results were positive with respect to handwriting indentations on Exhibit K1 (pages 7-10). The indentations found on Exhibit K1 (7) originated from the questioned handwriting on Exhibit Q1. |
| ZF6X7Y | Alternate Light Sources (VSC) | Writing ink, paper, and printed margin lines of Exhibit Q1 are similar to that found on Exhibit K1 (page 7). A similar, small black marking was noted on Exhibit Q1 and several pages of Exhibit K1. |
| ZF6X7Y | Microscopic/Macroscopic/Fracture Match | Exhibit Q1 was once joined to form a single piece of paper with Exhibit K1 page 4 (torn remnant of paper found in notebook - Exhibit K1) |
| ZF6X7Y | Handwriting Examination | The questioned handwritten entries on Exhibit Q1 appear to be naturally written and contain some identifiable handwriting characteristics, though, they may not be sufficient for comparison with a known writer |
| ZF6X7Y | Digital Scan | Exhibit Q1, K1 (pages 1-10) and the original ESDA lifts were digitally scanned and a CD of the digital images will be retained. |
| ZQRWYP | Microscopic analysis of ink and oblique light | Indented writing observed on K1 pages 7 and 8, black mark on bottom of Q1 and K1, printing characteristic on back of Q1 and K1 pages, torn left edge of Q1, black ballpoint, torn/missing pages 4, 5, and 6 from K1. |
| ZQRWYP | Electrostatic Detection Apparatus | Indented writing recovered from K1 pages 7 and 8 and correspond/overlay with the original writing on Q1. |

TABLE 2

| WebCode | Methods/Techniques | Observations |
|---------|--|--|
| ZQRWYP | Video Spectral Comparator, transmitted light | Q1 was at one time attached to K1 page 4, fracture pattern, feathering, and fiber crossing correspondence. |
| ZXPN3C | ESDA (electrostatic) | Developed writing impressions of similar text to item Q1 on page in item K1 |
| ZXPN3C | Visual Overlay | Overlaid ESDA result of K1 & Q1, writing/impressions and lines match |
| ZXPN3C | Physical Match | Microscopic examination, cut/torn edge of Q1 physically fits 1st stub of cut paper in K1 |
| ZXPN3C | Visual Observation | Black ink dot on edge Q1 alignes[sic] in similar relative position to those in K1 |

Conclusions

TABLE 3

| WebCode | Conclusions |
|---------|--|
| 23GPRR | The piece of sheet on which the text rests threatening "I WILL KILL YOU", comes from the first blade segment located in the notebook provided for documentológico[sic] analysis. Similarly, the inks with which the threat note "I WILL KILL YOU" is performed corresponds to the same ink with which the manuscripts found in the notebook be developed. |
| 247VA3 | Based on the aforementioned observations, I came to the conclusion that item "Q1" originated from the notepad "K1" with indentations of the message "I WILL KILL YOU". |
| 2B8TRK | The sheet (NOTE) of the threat for doubt, if it comes from the book belonging to the undoubted material. |
| 2VUKPV | The handwritten letter, 001-A1, came from the blue covered note pad, 001-A2. |
| 32H4DQ | The questioned note (Q1) originated from the recovered notepad (K1). |
| 3788B2 | Results and Conclusions: The note and pad were examined visually, microscopically, with the aid of a Video Spectral Comparator, with the aid of a scanner and image editing software, and were processed for indented writing using an electro static detection apparatus. Significant similarities were observed in the paper and a line of black ink on the bottom face of the notebook. The words "I Will Kill You" were developed on the front and back of the first page after the missing pages in the note pad. The questioned note, Item Q-1, was once part of the known note pad, Item K-1. |
| 3BLNMR | The questioned note originated from the recovered notepad. |
| 3JXF2B | After examination I made the following observations: Indented writing "I will kill" found on the note marked as "Q1" was also found on the note pad marked as "K1". The physical match between the edge of the threatening note marked as "Q1" and the left margin inside the note pad marked as "K1" have been observed. In the light of the above mentioned observations I reached the conclusion that the questioned note marked as "Q1" originated from the note pad marked as "K1". |
| 3QYV74 | The questioned note originated from the exemplar notebook. |
| 3ZLNZU | The evidences provides strong support for the proposition that the questioned note (Q) originated from the recovered note pad (K1). The contents, font and design of the writing is identical to that found on the document in question. Indentations of the writing can be clearly identified which read "I WILL KILL YOU" in the note pad in question. The ink used to write in the note pad and questioned document is very similar. |
| 428R77 | After examination and comparison of exhibit material marked "Q1" with exhibit material marked "K1.1", "K1.2", "K1.3" and "K1.4", I reached the conclusion that paper fragments marked "Q1" originated from note pad marked "K1". Paper fragments marked "Q1" and "K1.1" were at one time joined to form a single piece of paper. |
| 42GUCY | Indented impressions were observed on the page following the cutted pages of the notepad. The visualised impressions were found to equal the pen written text on the questioned note. Ink traces caused by a pen stroke were observed on the edges of the pages of the notepad. Ink trace originating from the same pen or pen containing similar ink was observed on the questioned note. A good physical fit of the cutting edge between the questioned note and the first cutted page of the notepad was observed. The aforementioned observations indicate that the questioned note originated from the recovered notepad. [sic] |
| 46TYNY | Various microscopic, infrared, and ultraviolet examinations were conducted on the Q1 and K1-4 documents. These examinations revealed that the paper exhibits similar class characteristics, such as color, hue, and response to ultraviolet and infrared light sources. On the basis of the examinations conducted, it is my opinion that the torn/cut edges of Q1 and K1-4 were at one time joined to form a |

TABLE 3

| WebCode | Conclusions |
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| | single document. The Q1 document and the K1 notebook were examined for the presence of any indented writing, typing or other identifying impressions. These are impressions sometimes left on paper from writing, typing, or other markings done on another page while it was superimposed over the questioned material. The following impressions were located in pages K1-7, K1-8 and K1-9 of the K1 notebook, sourced to the original writing on the Q1 document and reads: "I WILL KILL YOU". The resulting ESDA lifts (electrograph/imaging film) are being returned. The questioned writing on Q1 can neither be identified, nor eliminated with the known writing on K1-7. The questioned writing and the known writing do not consist of the same uppercase/lowercase letters or letters combinations and are not comparable. |
| 4GLXH6 | I found the evidence to support the proposition that the "threatening note" marked as "Q1" did originate from the note pad marked as "K1". |
| 4L4LAA | Item Q1 was once attached to the top partial piece of paper in item K1. The K1 page bearing a handwritten entry was processed for indented writing. The handwritten message on item Q1 ("I Will Kill You") was developed as indented writing on this page of item K1. |
| 4MCAG8 | 3.1 After examination of the disputed [sic] marked as "Q1" and specimen material marked as "K1" I made the following observations. 3.1.1 There is a physical match between the disputed note and the left edges of removed pages in the note pad. 3.1.2 The indentations of the note in Question, "I will kill you" appears on the page of the note pad "K1". In light of the above mentioned observations I reached the conclusions that the questioned note originated from the recovered note pad. |
| 4QC7X8 | It is my opinion that the evidence provides very strong support for the proposition that the questioned note, item Q1, originated from the notepad, item K1. |
| 4RLVGJ | The Q1 threatening note was torn from the K1 notebook. Latent handwriting examinations using the ESDA ("Electrostatic Detection Apparatus") revealed that the visible threatening handwritten message "I WILL KILL YOU" was endented[sic] onto the sheet of paper still attached in the K1 notebook bearing the visible handwriting of "3/2/15 Math: #1-25 #30-35 English: p. 16-88 worksheet". |
| 4TGG8P | The questioned note with the threatening text was the part of the recovered notepad. |
| 4U96E7 | After examination and comparison I reached the conclusion that there is strong probability that the questioned note originated from from[sic] the recovered notepad. |
| 699PPN | Indentations from the Q1 note were found in the K1 notebook. Additionally, the Q1 note was at one time attached to one of the cut pieces in the K1 notebook. Based on these characteristics, and others, it was determined that the Item Q1 hand printed note originated from the item K1 notebook. |
| 6BXXW4 | Q1 was originally part of K1. |
| 6CBREP | An examination was performed on Q1 showing a hand printed message "I WILL KILL YOU" in black ink. Q1 is a lined piece of paper (Approx. 3.5" wide & 5.5" height) with marks on the left side to indicate it was torn from a notepad. On the reverse side of Q1 numerous pen pressure marks were noticed from the hand printed message on front of the document. While examining K1 pages 4, 5 and 6 down from the front were all torn out of the notepad. K1 (Approx. 5" wide and 5.5" height) had a hand printed message on the 7th page down from the front. The message starts with "3/2/15" and ends with "worksheet". Rest of the notepad is blank with no further writings. When examining K1 for indented impressions, I noticed numerous indented letters on the 7th page down from the front with each letter being approximately 2 notepad lines in height. When comparing the indented impressions on K1 to the hand printed message on Q1, I have determined that the questioned note was written[sic] on top of page 7 of the recovered notepad. |
| 6D279N | In conclusion : The question mark (Q1) originated from the notebook (K1) recovered, sent as a standard of comparison. |
| 6D7PVQ | Based on the aforementioned observations, I came to the conclusion that the note ("I WILL KILL YOU"), |

TABLE 3

| WebCode | Conclusions |
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| | originated from the note pad in question. |
| 6GHV8R | The evidence provides strong support for the proposition that the note in question (Q) originated from the note book (K1). |
| 6LX6JA | The questioned note ("Q1") originated from the note pad "K1". My results are based on the following observations: 1. The questioned note "Q1" physically matches with the remaining part (left margin) of the first torn off note from the note pad "K1". 2. Both substrates of "Q1" and "K1" physically look the same. 3. Indented writing of words "I WILL KILL YOU" written on "Q1" was observed on the note pad "K1". |
| 6R323A | The questioned threatening note marked "Q1" originate from the notepad marked "K1". Physical match correspond due to the match of fibres torn between the papers. There are indentations that indicates that the threatening note originate from the notepad. The black line on the edges of the pages of document marked "Q1" form a continuous line with that of the document marked "K1" indicating that is[sic] it was written with the same writing instrument. |
| 73HWRE | The questioned note was originated from the recovered notepad. |
| 74DGJK | It was determined that the Q1 document originated from the K1 notebook. |
| 7A22MZ | The questioned note, Q1 originated from K1. |
| 7LFYUP | In our opinion, the questioned note has been separated from notepad recovered from one of the suspected students. |
| 7QMM8Q | The wording of the Conclusions in my report: The sentence "I WILL KILL YOU" on a sample Q1 coresponds[sic] to the punch holes on the K1 therefore it comes from this notepad; Elements shaped edge of the sample Q1 coresponds[sic] to shaped paper fragment in notepad; The transparencies of Q1 and paper from K1 are the same; The thickness of Q1 and one page from K1 are the same; Special paper element like bright/light line on the Q1 and notepad page are situated in this same place; Ink of ballpoint pen, which there[sic] was used to write "I WILL KILL YOU" on a sample Q1 and the note in K1 (notepad) is the same. |
| 7VEUPY | The Q1 document was, at one time, bound into the K1 notebook. |
| 7VZBYA | The questioned note originated from the recovered notepad. The questioned note originated from the notepad 4.page. |
| 7ZCQKE | Physical, optical, and chemical examinations were conducted on representative samples of Exhibits Q1 and K1. Based on these examinations, including a microscopic comparison of the paper fibers, it was determined that Exhibit Q1 was originally a part of Exhibit K1-P4 (page four in Exhibit K1). |
| 83HYFX | On examination of the threatening note Q1, I have found that it originated from the notepad K1. Indications leading me to this conclusion include a physical match that I found between the torn edge of the note Q1 and the stub of the fourth page in the notepad K1, as well as remnants of indented writing originating in Q1 that were found on the seventh page of the notepad K1. Furthermore, I have found a match between the location of the ink stain on the bottom edge of the note Q1 and the ink stains on the bottom edge of the pages of the notepad K1. |
| 87WBZZ | After an examination and comparison of the respective material, I reached the conclusion that the questioned note originated from the recovered note pad. |
| 89YR7M | No differences between Q1 and K1 could be detected in any of the technical examinations done on the paper-substrate. In addition the indented handwritten text "I WILL KILL YOU" is congruent in all details with the handwritten text "I WILL KILL YOU" on a page in K1. Therefore the questioned note (Q1) originated from the recovered notepad (K1) (Answer "A"). |
| 8B8J4P | In conclusion the questioned note page originated (taken) from the recovered notepad. |

TABLE 3

| WebCode | Conclusions |
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| 8E3ACM | Overall, my observations lead me conclude that the note, item Q1, is written on paper that was a leaf in the notepad, item K1, and that it was written while resting on other leaves bound sequentially in the notepad and, almost certainly, it was bound in the notepad when it was written. The stub in the notepad immediately after the current third leaf resulted from the note being removed from that position. |
| 8FLW7X | From my observations I could conclude that: Edges of "K1" and "Q1" physically match. When you bring you bring the edges of "K1" and "Q1" close together they physically match.[sic] This a clear indication that the questioned note marked "Q1" originated from recovered note-pad marked "K1". |
| 8P3BXJ | The note (Q1), bearing handwriting, previously formed part of the notepad (K1). The handwriting on the note was written whilst this piece of paper was resting on the relevant page of the notepad. |
| 8RV4XA | It is my opinion Q-1, the piece of paper containing the questioned note, and the 1st partial page in K-1 (notepad) were at one time one piece of paper. Also, it is my opinion the impressions on the 4th full page in K-1 (notepad) were created as a result of Q-1 being above this page when the information was written on Q-1. Therefore, it is my opinion Q-1 originated from K-1 (notepad). |
| 8WBRFK | The results of the document examination indicate that the handwritten threatening note (Q1) does originate from this notepad (K1). Basic evidence for this is: Coincidence of the lines, distance and width of the lines. Coincidence of the black mark on the lower edge of the note and the markings on the pages of the notepad. Coincidence of the markings of the manufacturers cutting knife on the paper edges. Faint impressions on the page in the notebook with the handwriting "2/2/15[sic] Math:#1-25 #30-35 English: p. 16-88 worksheet" that fit with the positioning of the handwriting on Q1. Coincidence of the traces on the edges of the threatening note Q1 and the upper paper fragment in the notepad. (by tearing the paper apart) |
| 9HMLNX | After examination of the notepad (K1) and the questioned note (Q1) I found that the note (Q1) originated from the notepad (K1). The determination was reached due to the physical matching of the notepad (K1) and the note (Q1), indentations of writing on the note (Q1) found on a succeeding page of the notepad (K1) and similar marking left by a writing instrument (assumed to be a marking pen) on all pages of the notepad (K1) is also present on the note (Q1). |
| 9L3UAB | After examination and comparison I reached the conclusion that the threatening note originated from the recovered notepad, under the instruments ESDA2 and VSC6000- light sources. The edges of the threatening note and notepad physically match, confirming that "Q1" was removed from "K1". The threatening note "Q1" and torn part of the notepad "K1" are both UV bright proving that they are from the same source. The writings "I WILL KILL YOU" found on the threatening note "Q1" are also found as indentations on the notepad "K1" and fit perfectly on each other when superimposed. |
| 9LK33C | The questioned note (Q1)is ORIGINATED from the recovered notepad (K1) |
| 9T24DZ | An indented impression examination was conducted on the Q1 note and page 4 in the K1 notebook, as a visual examination indicated that there were no other stubs in the notebook in K1. Indented impressions, generally, are left on a sheet of paper which has been in contact with another document during the writing process. Indented impressions are subject to more than one interpretation. Q1: No decipherable indented impressions developed on the note. K1, page 4: The following indented impressions developed on the lifts from page 4 in the K1 notebook: "I WILL KILL YOU". These indented impressions are from the writing on the Q1 document, which means that the note in Q1 was in contact with page 4 in the K1 notebook during the act of writing. Additionally, the torn edge on the Q1 note was compared to the torn edges on the three stubs in the K1 notebook. The stubs were labeled a, b, and c in order as they were in the notebook. The Q1 note and K1 notebook share the following class characteristics: white paper with visible yellow fibers throughout; approximately 5 7/16" high; printed grey, horizontal lines spaced approximately 9/32" apart; and a spot of black ink along the bottom edge of the page, approximately 1" from the right edge. Furthermore upon microscopic examination, it was determined that the Q1 note was at one time connected to stub labeled 'a' from the K1 notebook and the Q1 note was not connected to stubs b or c. |
| A6QX8N | Based on the results of the investigation we can conclude, that the text "I WILL KILL YOU", on Q1 was |

TABLE 3

| WebCode | Conclusions |
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| | written in the notepad K1. After that the sheet of paper with threat and two next sheets of paper in the notepad were torn out from the notepad. |
| AA6BBW | After examination I made the following observations: The writing found on the threatening note was also found as indentations on the note pad, indentations were observed from ESDA. Physical match of the threatening note and note pad at the edge of the left margin. In light of the above mentioned observations I reached the conclusion that the questioned note marked as Q1 originated from the note pad marked as K1. |
| AGAKQH | Several documents (Q1, K1-4, K1-5 and K1-6) were examined for impressions of indented writing. Indentations of this sort often occur on a document when writing is performed on another document that is physically on top of it. The writing "I WILL KILL YOU" on Q1 left indentations on pages K1-4 and K1-5 (the latter, very faint). This indicates that when this writing was done Q1 was on top of K1-4 and K1-5. The writing beginning "3/2/15..." on K1-4 left indentations on pages K1-5 and K1-6 (the latter, very faint). The torn edge of Q1 was compared against the torn edges of stubs K1-1, K1-2 and K1-3. A positive fracture match was found between Q1 and K1-1, indicating that they were at one time connected. |
| AGQN9G | It was determined that the item Q1 piece of paper was at one time attached to the item K1 page 4 strip of paper. Indented writing was observed on item K1 page 7, using the Electrostatic Detection Apparatus (ESDA), which is consistent with the questioned writing on item Q1. |
| AYK2L3 | 3. The questioned note "Q1" originated from the recovered notepad "K1". 3.1 The indented impression that look like a shadowgraph reading "I WILL KILL YOU" was observed from notepad "K1". 3.2 The indentation text reading "I WILL KILL YOU" was deciphered from notepad "K1". 3.3 The questioned note "Q1" handwriting and deciphered text from the notepad "K1" have the similar individual handwriting characteristics and are identical. 3.4 There is an indication that three pages were cut off from the notepad "Q1". 3.5 Edge-to-edge realignment between questioned note "Q1" and remaining pieces of cut pages revealed that the fractures and surface marking of questioned note "Q1" matches the fractures and surface marking on one of the portion of paper left from papers removed from notepad "K1". |
| B2TFT9 | The examination resulted in the following findings: 3.1 The threatening note 'item Q1' have originated from the note pad 'item K1' recovered from one of the suspect student. 3.1.1 There is a physical match between 'item Q1' and one of the pages removed from 'item K1'. 3.1.2 There were also impressions writing on 'item K1' that show 'item Q1' was written on top of 'item K1' when removed. The indentations writing 'I WILL KILL YOU' appears on 'item K1' which is the same as the wording on the threatening note 'item Q1'. |
| B7L2VA | The threatening note (Q1) originated from the recovered notepad (K1); the quality and conditions of the paper in both analyzed elements are identical. |
| BD4DNG | My examination based on the observations from the five methods and techniques as stated in item 2 above, I am of the opinion that the questioned note (Q1) was originated from the recovered notepad. |
| BHUH78 | Analysis and comparison of the respective material presented me with the following observations and conclusions: 6.1 After physical match was performed with the note pad mentioned in paragraph 3.2 and note mentioned in paragraph 3.1 I found the note originate from the note pad. 6.2 The indentation of the writing "I WILL KILL YOU" that originated from the note mentioned in paragraph 3.1 appears on the page of the note pad marked "K1d" by me. |
| BJ9CY8 | After examination and comparison of the respective material. I reached the conclusion that the questioned note marked "Q1" originated from the recovered notepad marked "K1", in respect of the physical match, EDSA[sic] indentation, side light and the superimposed. |
| BPXUDH | As a result of my comparison and examination, I determined that item Q1 was attached to the first remaining torn note page of K1. Therefore, item Q1 originated form[sic] K1. |
| BVHH2F | After the analyzes, it was found that the observed vertical cut on the left side of the sheet of doubt, completely matches the characteristics of the superior court observed in the notebook tab, likewise view |

TABLE 3

| WebCode | Conclusions |
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| | the ink mark on the lower end right in doubt sheet coincides with the location of stroke observed at the base of the notebook.[sic] latent prints and the pressure generated by typing the word (i will) in the handwritten notepad sheet coincide with the dimension structure and location of the text in question sheet. The above observations support the conclusion that the note in question originated in the notebook recovered. |
| C7GZ7U | The questioned note originated from the questioned notepad, Exhibit 1 (K1). Exhibit 1 (K1) was processed for the presence of indented writing. Indented writing was found. The questioned handwritten entry on Exhibit 2(Q1) was the source of the indented writing found on Exhibit 1 (K1). |
| C8QMM3 | After an examination I found that the note found on the victim's car with the words I WILL KILL YOU originates from the notepad recovered from one of the suspected students. The conclusion was based on the following: 1. The edges on the left margin of the note matches with those of the torn page in the notepad. 2. Indentations of the words "I will kill you" were observed on some of the pages in the notepad. |
| CAVDUG | Based on the examination findings, I am of the opinion that the first torn paper in K1 (fourth page in K1) and Q1 were at one time joined to form a single piece of paper. Therefore, the questioned note Q1 originated from the recovered notepad K1. |
| CAWHHJ | Within the specimen notebook (K1), three page stubs were located at page positions 4,5 and 6. Evidence of latent impressions recovered from the page 7 position within K1 provides very strong support for the proposition that the Q1 note was written while positioned in the K1 notebook. Evidence of a tear pattern match between Q1 and page stub position 4, in the K1 notebook, provides very strong support for the proposition that the Q1 note originated from the K1 notebook. Together, these two sources of evidence support a conclusion that the Q1 note originated from and was written while within the K1 notebook. |
| CCPLWC | There was very strong evidence to support the proposition that Q1 originated from the notepad |
| CDZ4FG | The questioned note, Q1, originated from the notepad, K1. |
| CJPTRE | The questioned note PROBABLY ORIGINATED from the recovered notepad. |
| CLRURC | The threatening note (Q1) originated from the notepad (K1). Specifically, the notepad contains three intact pages leading into the notepad, followed by three removed pages, followed by another intact page with numerals and hand printing: "3/2/15 Math: #1-25..." The three removed pages appear to have been removed by means of a straight edge placed against the pages and torn (as opposed to being cut with a sharp-edged instrument). Of the three removed pages, left side page remnants remain affixed the notepad's spiral wire binding. Q1 was once part of the topmost page remnant. Both that remnant and Q1 mechanically fit precisely. The exactness of the mechanical fit was readily apparent by means of stereoscopic magnification. Both Q1 and writing in the notepad were black, ballpoint ink. The hand printing on Q1, "I WILL KILL YOU" is indented onto the intact page with numerals and hand printing (cf. above), which following the three removed pages. Furthermore, by means of oblique lighting and electrostatic imaging, latent writing indentations from Q1 are also visible on the intact page with numerals and hand printing, and the two pages below that page. |
| CT4767 | 1. Item Q1 was torn out of Item K1. 2. Handwriting indentations from the writing on Item Q1 was found on a page of Item K1. 3. Various physical properties of Item Q1 were matched to Item K1. No significant differences were found. |
| CWU3FN | The questioned note (Item Q1) originated from the Item K1 notepad. Supporting examination documentation is maintained in the case file. |
| CZDWJG | Indented writing "I WILL KILL YOU" was observed during the examination of K1. It was determined that the Q1 threatening note originated from the K1 notepad. Torn/cut edge characteristics in agreement were observed during the examination of K1 (portion of page 4) and Q1, indicating these items were at one time attached. |

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| CZV78B | Lab item #1 (K1d) and Lab item #2 (Q1) were at one time joined together. Lab item #1 K1g (front and back) and K1h (front and back) were processed for the presence of indented impressions utilizing oblique/side lighting and ESDA (Electrostatic Detection Apparatus). Multiple impressions were found. Image of K1g front was used for reporting purposes. Lab item #1 K1a-c (front and back) and K1i (front and back) were processed for the presence of indented impressions utilizing oblique/side lighting and ESDA. No impressions of investigative value were found. Lab item #2 Q1 (front and back) was processed for the presence of indented impressions utilizing oblique/side lighting and ESDA. No impressions of investigative value were found. Lab item #2 Q1 was searched through the current Criminal Letter Database of the Police Laboratory's Questioned Documents Unit. This evidence (Q1) can not be associated with any previously submitted case. |
| D4A8PZ | The questioned note ORIGINATED from the recovered notepad. |
| DBQJ42 | The results of the examination extremely strongly support that the note Q1 came from the notepad K1 (Level +4). |
| DDXWPA | Exhibit Q1 originated from Exhibit K1. This finding was made evident by the following: Indented writing was developed on the front and reverse sides of the seventh page from the front of K1 and was sourced to the writing appearing on Q1. A fracture match was made between the torn left edge of Q1 and the torn right edge of the fourth page from the front of K1. A marking was observed along the bottom edge of Q1 consistent with a marking appearing along the bottom edges of the pages in K1. |
| DHA4QD | Results of Examinations: It was determined that the Item Q1 questioned note was at one time attached to the Item K1 notepad. |
| DHNDV8 | It has been concluded, that the questioned note Q1, originated from the specimen notepad, K1. |
| DJJYLD | The questioned note ORIGINATED from the recovered notepad. |
| DJYDXU | Exhibit 2 (questioned note) originated from Exhibit 1 (notepad). |
| DM2B9M | Results of Indented Impressions Examinations: Side Light Examinations: Side light examinations of page 7, 8 and 9 of Item 1 revealed faint indented impressions consistent with the writing produced on Item 2 that reads I WILL KILL YOU. Side light examinations of page 1, 2, and 3 of Item 1 failed to reveal any indented impressions. Side light examinations of Item 2 failed to reveal any indented impressions. Electrostatic Detection Apparatus (ESDA) Examinations: ESDA examinations of pages 8 and 9 of Item 1 revealed indented impressions that were caused when the writing was produced on the notebook page submitted as Item 2 that reads I WILL KILL YOU. ESDA examinations of pages 8 and 9 of Item 1 also revealed indented impressions that were caused when the writing was produced on page 7 of the Item 1 spiral notebook. Comments: This means Item 2 (Q) was above pages 7, 8 and 9 of Item 1 when the writing was produced on Item 2. Indented writing impressions can occur when paper is stacked or padded together and writing occurs on the top sheet(s) which leaves an indented writing impression on the sheet(s) below it. Documentation of the lifted impressions along with copies and interpretations of the impressions will be retained with the evidence. Results of Alternate Light Source and Microscopic Examinations: Black Felt Ink Mark Examinations: The black felt ink marks in the right lower corner on pages 1, 2, 3, 7, 8, and 9 of Item 1 and on Item 2 are approximately in the same locations. The black felt ink marks on pages 1, 2, 3, 7, 8, and 9 of Item 1 (K) and on Item 2 (Q) were examined microscopically and using the alternate light sources and filters. These examinations failed to reveal any differences between the black felt ink marks on Item 1 (K) and the black felt ink mark on Item 2 (Q). Limitations: This means that the black felt ink used to produce the questioned marks on Item 2 could have been produced with the same ink that was used to produce the marks on Item 1. However, it could have also been produced with ink that has similar properties thus making it appear similar when examined with a microscope and/or with various light sources. Paper Tear Comparison: Microscopic comparisons between the tear pattern present on the left torn edge of Item 2 and the tear pattern present on the right torn edge of partial page 4 of Item 1 form a physical match. Paper Fiber Examination: Paper edge comparisons between the left torn edge of Item 2 and the right torn edge of partial page 4 |

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| | <p>of Item 1 revealed multiple partial fibers that were once single fibers between the two edges. The results of the paper tear comparison and the paper fiber examination reveal Item 2 and partial page 4 of Item 1 were once a single piece of paper and because the partial page 4 of Item 1 was received with it attached to the spiral notebook, the Item 2 note was once part of the Item 1 notebook. (Identification). Interpretation: The following descriptions are meant to provide context to the opinions reached in this report. Every type of conclusion may not be applicable in every case or for every exam type.</p> <p>Identification (definite conclusion of identity) — this is the highest degree of confidence expressed by Forensic Document Examiners. The examiner has no reservations whatsoever, and although prohibited from using the word "fact," the examiner is certain, based on evidence revealed during the examination.</p> <p>Highly probable did (strong probability, very probable) — the evidence is very persuasive, yet some critical feature or quality is missing so that an identification is not in order; however, the examiner is virtually certain based on evidence revealed during the examination.</p> <p>Probable did — the evidence is persuasive, yet critical features or quality is missing. The examiner is certain based on evidence revealed during the examination. During examinations, features were examined of significance and are in agreement between the questioned and known evidence; however, it falls short of the highly probable degree of confidence. Indications may have (evidence to suggest) — the evidence is persuasive, however many critical features or quality are missing. During examinations, features were examined which are of significance and are in agreement between the questioned and known evidence, however, it falls very short of the highly probable degree of confidence. No conclusion (inconclusive, indeterminable) — this is the zero point of the confidence scale. It is used when there are significantly limiting factors, such as disguise in the questioned and/or known evidence or a lack of comparable features and therefore no conclusion can be reached. Indications may not have — the evidence is persuasive, however many critical features or quality are missing. During examinations, features were examined which are of significance that are not in agreement between the questioned and known evidence; however, it falls very short of the highly probable degree of elimination. Probable did not — the evidence is persuasive, yet critical features or quality is missing. The examiner is certain based on evidence revealed during the examination. During examinations, features were examined of significance that are not in agreement between the questioned and known evidence; however, it falls short of the highly probable degree of elimination. Highly probable did not (strong probability did not) — the evidence is very persuasive, yet some critical feature or quality is missing so that an elimination is not in order; however, the examiner is virtually certain based on evidence revealed during the examination. Elimination - this is the highest degree of confidence expressed by Forensic Document Examiners. The examiner has no reservations whatsoever, and although prohibited from using the word "fact," the examiner is certain, based on evidence revealed during the examination.</p> |
| DMM4CZ | The questioned note (Q1) have originated from the notepad (K1) recovered from one of the suspected students. |
| DXHFK8 | After an examination and comparison of disputed document marked "Q1" with the notebook marked "K1" I made the following observations: 3.1. The writing on the document marked "Q1" which says "I WILL KILL YOU" is also appearing on the note pad marked "K1". 3.2 In light of the above observations, I made the following conclusion that: 3.2.1 The questioned note marked "Q1" originated from the recovered note pad marked "K1". |
| EBKNWZ | Q1 can be identified within the limits of practical certainty*, as having originated from K1. |
| ED9U2C | THE CHALLENGED (QI) NOTE IF originated from the notebook (KI), EXACTLY THE FIRST PIECE OF PAPER. |
| EH98FH | The Item Q1 originates from the Item K1. The questioned note was in the notepad when the sentence "I WILL KILL YOU" was written. |
| EQG7MY | The pages within the first section of the K1 notebook were marked K1-1 to K1- 37, including the three remnants which were labelled K1-4 to K1-6. The page containing handwritten entries was marked K1-7. The Q1 note was observed to contain the same physical features (size, line spacing and printed defects) as the K1 notebook. Additionally, the black marker observed along the base of the K1 notebook was in the same location as the markings on the Q1 note. Using an examination for indentations, the writing |

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| WebCode | Conclusions |
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| | <p>from the Q1 note was observed to be indented on the reverse of the page marked K1-7. This means that the Q1 page was in contact with K1 when the handwritten entries were produced. A tear match was observed between the page remnant marked K1-4 and the Q1 note using physical fit and the continuance of fluorescent fibres between the torn edges. Based on these observations, at some stage, the Q1 note originated from the K1 notebook and was attached to the remnant labelled as K1-4.</p> |
| EQGDZ8 | <p>Q1 was a page in K1 before it was removed by tearing. A straight-edged instrument was used to facilitate a straight edge when Q1 was torn from K1. 1. Electrostatic Detection Device (EDD) processing of the fourth page in K1 revealed indentations corresponding to the handwritten text of Q1. These indentations in K1 were created when Q1 was written while positioned above the fourth page of K1. 2. Fibers on the first spine remnant in K1 (first of three present) match fibers on torn edge at left side of Q1; ruled lines on this first spine remnant are printed with variations that are consistent with those of the printed ruled lines on Q1. An edge mark was present on the first spine remnant in K1, supporting the opinion that a straight edge was used to make a straight tear when Q1 was torn from K1. 3. There is an ink spot on right side of bottom edge of Q1 that has the same location as similar ink spots on the bottom of pages in K1. Nondestructive IR and UV examinations of this ink spot revealed no differences between Q1 and K1, but this does not mean they were made with the same ink, only that no differences were detected with the non-destructive method of examination used. A chemical (destructive) examination of the ink spots at the bottom of each page in K1 and Q1 might be more definitive in determining similarities or differences, but a destructive examination was not conducted.</p> |
| F37WRH | <p>Significant evidence was found to establish that the page submitted as Q1 originated from specimen noted K1.</p> |
| F3RV3F | <p>It is my opinion that Q1 and K1.4 were at one time joined together to form a single object, meaning that Q1 was removed from the K1 notebook. Q1, K1.1, K1.2, K1.3, and K1.7 were examined for the presence of any indented writing, typing or other identifying impressions. These are impressions sometimes left on paper from writing; typing, or other markings done on another page while it was superimposed over the questioned material. The following impressions were located: K1.7 (front) bears impressions from the original writing on the front of Q1. No other meaningful or significant impressions were located. Various microscopic, infrared, and ultraviolet examinations were performed on the ink(s) used to produce the writing on Q1 and K1.7. These examinations revealed that the ink(s) could not be differentiated and reacted similarly throughout the spectrum. These examinations do not provide a positive identification of the ink formulation, however further chemical testing may be deemed necessary to determine if the ink(s) are the same or different ink formulation. The known writing on Q1 can neither be identified nor eliminated with the writing on K1.7. The lack of comparable known writing written in all uppercase letters and containing the same words and word combinations as the questioned writing hindered my examinations and precludes a more conclusive opinion.</p> |
| F3TQM7 | <p>The Q1 note definitely originated from the K1 notepad.</p> |
| F42EV4 | <p>Questioned note Q1 originated from recovered notepad K1.</p> |
| F4XHFJ | <p>It has been concluded that the Exhibit Q1 message was originally joined to the first narrow strip of paper that comes after the third page in the Exhibit K1 notebook. Further, indented writing was found in the Exhibit K1 notebook that was produced during the execution of the Exhibit Q1 message.</p> |
| F8H8YW | <p>On the basis of the combination of my observations made from numerous examinations conducted, I concluded that the paper of Q1 originated from K1, that the entry on Q1 was written while the page was still (directly or indirectly) overlying page 4 in K1 and that K1[sic] was torn from what is now referred to as strip 1.</p> |
| FB28B7 | <p>The q1 note originated from the k1 notebook.</p> |
| FDN2UR | <p>It was determined the threat note Q1, came from the notepad K1.</p> |
| FDN4JW | <p>The evidence provides very strong support for the proposition that the threatening note on Q1 was at</p> |

TABLE 3

| WebCode | Conclusions |
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| | one time a single page in the recovered notepad K1. |
| FJTPPE | Considering the evidence as a whole, in my opinion, the paper of the questioned note Q1 once formed part of the notepad K1. |
| FLH4ZA | It was determined that the Item Q1 Threatening note originated from the Item K1 Notepad. The torn edge from the Item Q1 Threatening note was at one time attached to the torn edge on the fourth page (torn page) from the Item K1 Notepad. Indented writing "I WILL KILL YOU" was observed on the Item K1 Notepad (full pages 7, 8 and 9). The indented writing originated from the hand printed entry "I WILL KILL YOU" on the Item Q1 Threatening note. No indented writing was observed on Item Q1 (Threatening note) and Item K1 (Notepad), full pages 1, 2 and 3. Additional assessments and observations have been made on the submitted items and recorded for possible future comparisons. |
| FXW26E | It was determined the Q1 threatening note originated from the K1 notebook. The torn edges of Q1 and K1, p4, were at one time attached. The indentation of the Q1 letter was observed on page 7 of the K1 notebook. |
| G2TANE | The questioned note originated from the recovered notepad. |
| GCBNRG | Results of Examinations: The Item Q1 threatening note was at one time attached to the Item K1 notepad. Indented writing "I will kill you" was observed on a piece of Item K1 notepad paper. This indented writing originated from the Item Q1 hand printed entry "I will kill you". No indented writing or watermarks were observed on Item Q1. |
| GKNKVN | The questioned note originated from the recovered notepad. In an effort to recover any indented writing that may exist on the questioned material, the documents were submitted to an Electrostatic Detection Apparatus examination. Impressions were recovered on the page of the notepad containing writing. These impressions read "I WILL KILL YOU", and correspond to the writing on the questioned note. An examination utilizing the Video Spectral Comparator revealed that the ink and paper on the questioned note and from the notebook exhibit similar optical properties. The evidence, in its original state, has been imaged and archived in a digital imaging system. Should the evidence be degraded by other forensic testing, images can be used to conduct handwriting comparisons. |
| GPGKAJ | Upon completion of an examination and comparison of the items submitted, it is this examiner's opinion that the Q1 exhibit originated from the K1-0 notepad. An integral parts examination revealed that the Q1 exhibit was torn from the K1-1 portion of the K1-0 notepad. K1-2 was processed for indented writing on the Electrostatic Detection Apparatus (ESDA). The text of Q1 was impressed on the K1-2 exhibit. |
| GQPAFV | 3.1 The threatening note marked "Q1" originates from the notebook marked "K1". 3.2 The note was torn from the page marked "K1B" (by the examiner). |
| GV4E3A | The questioned note ORIGINATED from the recovered notepad. |
| GWXV7E | In conclusion, I found the evidence to (provide) strong support that the questioned note (Q1) that was left on the victim's car, originated from the recovered notepad (K1). |
| H32YUR | After examination of both the disputed threatening note marked "Q1" and notepad marked "K1" the following conclusions were reached: 3.1 The left margin of the disputed threatening note marked "Q1" physically matched the right margin of the notepad marked "K1" which indicates that threatening note "Q1" originates from notepad marked "K1". 3.2 The wording "I WILL KILL YOU" on the disputed threatening note marked "Q1" matches the impressions "I WILL KILL YOU" on the notepad marked "K1". 3.3 When the disputed threatening note marked "Q1" is placed on top of the notepad marked "K1" the wording "I WILL KILL YOU" is superimposed to the indentations on the notepad marked "K1". |
| HCR8AT | In my opinion the evidence provides very strong support for the proposition that the questioned note Q1 has originated from (was once a part of) the notepad K1. |
| HFNQBR | The paper in Item Q1 has been physically matched (identified) as having once been attached to the torn |

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| WebCode | Conclusions |
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| | edges of the page marked (1) in Item K1. Additionally, the indentations of the text appearing on Item Q1 were observed on the page marked K1(a). |
| HRGDGM | Q1 and the K1 notebook share a common source. Specifically, Q1 was on top of the K1d and K1e pages when the Q1 handprinting that reads "I WILL KILL YOU" was written. |
| J2GW39 | 1 macroscopic observation. Q1 leaf notebook originates k1 for alignment of paper, or cut and fracture location of the lower ink stain. 2 Analysis indented text by video spectral comparator. By overlaying paper on sheets of notebook Q1 K1, hand-written texts are indented or hollows in equal proportion and location on the following sheets of notebook K1. 3 overlapping images to compare fractures or torn paper by video spectral comparator. By aligning edges and broken or torn paper documents against K1 Q1 is equal split. 4 Analysis of ink and paper by ultraviolet fluorescence by video spectral comparator. Paper and ink ballpoint pen against paper document Q1 Paper and ballpoint pen ink K1 have the same behavior under UV fluorescence technique wavelengths 254nm and 365nm. 5 ink and paper analysis by infrared fluorescence by video spectral comparator. Paper and ink ballpoint pen against paper document Q1 Paper and ballpoint pen ink K1 have the same performance under infrared fluorescence technique wavelengths between 665nm to 830nm. 6 ink analysis by infrared absorption by video spectral comparator The ballpoint pen ink Q1 document against ballpoint pen ink K1 have the same behavior under infrared absorption technique and are lost to absorption wavelength of 695nm. |
| J9LGMT | After examination and comparison with notepad (K1) I have found that the note (Q1) originated from notepad. The conclusion is based on the following: 1. Physical match at the edges of the torn pages. The physical match between edges of the note (Q1) and the edges of the first torn piece of page on the notepad (K1). 2. Indented writing (of the reading "I WILL KILL YOU") observed on the first page after torn pages, i.e on the page dated 3/2/15 of the notepad (K1). |
| JLRRW2 | The questioned note (Q1) was created while the page (Q1) was in the notepad (K1) then torn from the notepad (K1) using a straight edge. |
| JNWK7K | The questioned note originated from the notepad. |
| JRZD24 | Lab item#1 (K1-3, K1-7 and K1-8) was examined for the possible presence of indented writing[sic] impressions utilizing side/oblique lighting and ESDA (Electrostatic Detection Apparatus). Multiple impressions were found. See pages 2, 3, 4 for interpretation. Note: K1-7 back dated 5/5/15, K1-7 front dated 4/24/15 and K1-8 back dated 4/24/15 were chosen for reporting purposes. Lab item#1 (K1 front and back covers, K1-1 - K1-2, K1-9 - K1-148) was examined for the possible presence of indented impressions utilizing side/oblique lighting; no impressions of investigative value were found. Lab item#2(Q1) was examined for he[sic] possible presence of indented impressions utilizing side/oblique lighting and ESDA (Electrostatic Detection Apparatus); no impressions of investigative value were found. Lab item #2(Q1) was searched through the current Criminal Letter Database of the Police Laboratory's Questioned Documents Unit. As of May 26, 2015 this evidence cannot be associated with any previously submitted case. Lab item#1 (K1-4) and Lab item#2 (Q1) were visually and microscopically examined for physical match. The congruity of the class and the individual characteristics exist. Lab item#1 (K1-4) and Lab item#2 (Q1) were at one time joined together. The questioned note (Q1) originated from the recovered notepad (K1). See page 5 for interpretation. [Referenced pages not included.] |
| K84AWM | Request: Forensic examination of Submission 001 in order to determine if Item 001-1 originated from Item 001-2. Results: Forensic examination of submission 001 utilizing ink analysis (VSC-4) revealed similarities in the ink used on Items 001-1 and 001-2. Side lighting on Item 001-2 revealed indented writing similar to the Questioned writing on Item 001-1. Forensic examination of Item 001-2 utilizing indented writing revealed the words "I WILL KILL YOU". A lift was taken. Forensic examination of Items 001-1 and 001-2 revealed a physical fit match between the torn edge of item 001-1 and the fourth page of item 001-2. Remarks: The evidence has been scanned and photocopied and is being returned with a copy of this report. A lift of indented writing (ESDA) was taken and is being returned with a copy of this report. If known handwriting exemplars are obtained, and if requested, further examination will be conducted by this Laboratory. This report reflects the test results, conclusions, interpretations and/or |

TABLE 3

| WebCode | Conclusions |
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| | findings of the Analyst and Technical Reviewer as indicated by their signatures below. |
| KABUDV | In my opinion, there is conclusive evidence that the note, Q1, originated from the notebook, K1. |
| KYNVK6 | The questioned note ORIGINATED from the recovered notepad. |
| KZNU4D | As a result of examination and comparison based solely on the material submitted, the following conclusions and observations are opinions based upon my experience, education and training and are as follows: 1. The note, described as Q1, did originate from and was associated with the notebook, described as K1. 2. The Q1 note was scanned for preservation by Specialist. 3. The Q1 note was processed for indented writing using the ESDA (ElectroStatic Detection Apparatus) on 05/20/2015, indented impressions of value were located on the K1 exhibit, deciphered as "I WILL KILL YOU". 4. On 05/20/2015 the Q1 note and the K1 notebook and the writing on the handwritten page in the K1 notebook, were examined using the VSC (Video Spectral Comparator 6000) to view the chemical reactions of the paper and the ink used for the writing. The paper and the ink in the K1 notebook and the single Q1 note reacted consistently under IRL and IRR. 5. The Q1 document was processed for latent fingerprints using liquid ninhydrin solution on 05/20/2015 by Specialist. The document was examined by the Latent Print Detail. 6. On 05/20/2015 the Q1 document was swabbed for DNA evidence. The swabs were placed into evidence. |
| L34P23 | K1 and Q1 have the same size of height. Q1 was cut so you cant know what was the original size. The horizontal lines are the same color. The lines are the same in Q1 and K1. In one side of the page the lines are fine and in the other the lines are thicker. The paper has the same characteristics. |
| L43NJB | Note Q1 was part of notepad K1 when handwritten message "I will kill you" was written on it. |
| L7RU3L | The Q1 note and page 4 of the K1 notebook share a number of class and individual characterisitcs[sic]. Therefore, the Q1 note and page 4 of the K1 notebook were at one time joined to form a single page. |
| LHL92H | Hypothesis 1: Q1 originates from notepad K1. Hypothesis 2: Q1 originates from a randomly different notepad than K1. The findings are extremely more likely (>1.000.000 times) when Q1 originates from notepad K1 (hypothesis 1) than when Q1 originates from a different notepad (hypothesis 2). |
| LTVMPW | After an examination and comparison with the notepad I found that the note mentioned in paragraph 3.2 originated from the notepad mentioned in paragraph 3.1. 6.1 My observations were based on the following: 6.1.1 The physical match was observed between the disputed note and the first torn piece of paper found in the notepad marked by myself as "K1A". 6.1.2 The indentations of the disputed writing "I WILL KILL YOU" appears on the page in the notepad marked by myself as "K1D". 6.1.3 No physical match could be found, between the disputed document "Q1" and the other two torn pages from the notepad marked by myself as "K1B" and "K1C". |
| LUERHA | 3.1) Item Q1 and Item K1 (page 4) were at one time joined together. 3.2) Item K1 (page 7) was examined for the presence of indented impressions utilizing oblique lighting and the Electrostatic Detection Apparatus. Indented impressions were found which correspond to the handwritten entries on Q1. A machine copy of the developed indented impressions are being returned with this report. 3.3) Item Q1 was examined for the presence of indented impressions utilizing oblique lighting and the Electrostatic Detection Apparatus; no impressions of investigative value were found. Remarks: 1) The physical match of Item Q1 with items K1 (page 4) is demonstrable through the use of enlarged illustrative charts. If testimony is anticipated please allow at least three weeks for the necessary preparation. 2) The developed indented impression lifts are being returned as item #02 for your safe keeping. [Images were not included with the report.] |
| M2ATZU | 3.1 After an examination and comparison of the respective material, I reached the following conclusions: 3.1.1 The Questioned note (Q1) originated from the recovered notepad (K1). 3.1.2 The edges of Q1 (questioned note) and K1 (notepad) physically matched, confirming that "Q1" was removed from "K1". 3.1.3 The questioned note "Q1" and the notepad "K1" are both UV bright proving that they are from the same source. 3.1.4 The words "I WILL KILL YOU" found on the questioned note "Q1" are |

TABLE 3

| WebCode | Conclusions |
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| | also found as indentations on the notepad "K1" and fit perfectly on each other when superimposed. |
| MEEB92 | It was determined that the Q1 note originated from the K1 booklet. An examination conducted using the Electrostatic Detection Apparatus (ESDA) showed the presence of the Q1 writing indented into the page surface in the K1 booklet that bore the date "3/2/15". In addition, a side-by-side examination of the Q1 page and the first of three tabs preceding the written page in the K1 booklet show an agreement of corresponding tear patterns and matching torn fibers that indicate the Q1 page was torn from that first tab in the K1 booklet. Additional supporting evidence includes the following: there is a black mark on the bottom of the Q1 note that corresponds in location and size to a black line on the bottom of the K1 booklet: the Q1 page measures 9 cm x 13.7 cm, as do the interior pages of the K1 booklet (from the perforation line to the page edge); The Q1 has 17 horizontal grey lines as do the interior pages of the K1 booklet; and the Q1 page and the interior pages of the K1 booklet both show consistent paper texture, color and UV reaction. |
| MFRGCD | It seems that the sheet Q1 belongs to the bloc K1, but do not rule out the possibility that the bloc has been manipulated, adding pages similar. They could have added three pages: Q1, leaf manuscript text k1 and next to it, since it is possible to mount and dismount the spiral notebook unnoticed that has been manipulated. [sic] |
| MGMZFY | Visual, microscopic, infrared, and ultraviolet examinations revealed that the physical properties of the paper in the Q1 note are consistent with the physical properties of the paper in the K1 notebook. Indentations of the handprinted entries on the Q1 note were recovered from the K1 notebook using the Electrostatic Detection Apparatus (ESDA). Therefore, it can be concluded that the Q1 note originated from the K1 notebook. |
| MHY8QZ | Threatening note reading "I WILL KILL YOU" (Q1) originated [sic] the recovered notepad (K1). |
| NADV4 | Item Q1 originated from Item K1. |
| NBPZE9 | In consideration[sic] of the findings about indented writings and matching of the paper edges[sic] it is concluded that the question note Q1 is originated from the recovered notepad K1. |
| NC6KHX | There is an exact match between the ripping edge of the threatening note to the first thin paper strip in the spiral binding (left over of a torn out page). Even the offset printed lines on the note and the paper strip match perfectly (front AND back). The Black "mark" on the lower edge of the note also matches the black line that runs across the paper edges of the notepad. Regarding our observations we conclude that the paper of the note got ripped out of the recovered notepad. |
| NERXP2 | By using visual examination method, light penetrating method, ESDA and overlapping comparison, the questioned note(Q1) originated from the recovered notepad(K1). |
| NHQE3V | In view of the significant observations, it was concluded that the questioned note "Q1" originated from the notepad "K1". In particular, based on the physical match of the torn edges and paper fibres, the evidence shows that "Q1" was once part of the fourth page of "K1". |
| NVZHGJ | 1. The Exhibit Description is clarified as follows: Exhibit 1(1-7) - Known pages and remnants of pages from a spiral bound notebook. Exhibit 2 - Questioned threatening note. 2. Exhibit 2 was once part of and originated from the notebook submitted as Exhibit 1. 3. Exhibit 1(7) was examined for the presence of indented writing. Indented writing impressions from Exhibit 2 were present on Exhibit 1(7). |
| P8B68V | The sheet of paper that contains note questioned Q1, presents identity with the edges of the first fragment of paper ring in the indubitable book K1, therefore the sheet of paper Q1 comes from the confiscated book K1. |
| PB6LLP | The questioned note originated from the recovered note pad "K1". The questioned note originated from the recovered note pad "K1" in respect of the indentations on the note pad when exposed to magnification and oblique light and the use of ESDA. The physical match on both the threatening note "Q1" and the note pad "K1" are visible under magnification and flood. |

TABLE 3

| WebCode | Conclusions |
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| Q9F6WU | It has been concluded that the questioned threatening note (Q1) did originate from the notepad (K1) from one of the suspected students. |
| QBQ3AC | Exhibits Q1 and a paper fragment from within Exhibit K1 were at one time a single sheet of paper. |
| QGEKTU | The threatening note, if applicable to the first cut sheet of notebook. |
| QL3CUV | The questioned note does in all probability originate from the recovered notepad. The margin of error is regarded as merely hypothetical[sic]. |
| QMJGCU | The sheet with the questioned note originated in the notepad. |
| QPLJYB | Indented writing bearing the hand printed text from Item 2 (Q1) was recovered from Item 1.7 (K 1.7). The torn edges of the three paper remnants, Items 1.4, 1.5 and 1.6 (K1.4, 1.5 and 1.6), were examined microscopically and compared with the torn edge on the left side of Item 2 (Q1). Item 2 (Q1) has been identified as having originated from Item 1.4 (K 1.4). |
| QV9P27 | A[sic] came to the finding that the threatening note (Q!)[sic] originated from the recovered note pad (K1). |
| R2T2FY | The questioned note q1 originated from the recovered notepad k1 |
| R2TRE8 | The piece of paper Q1 originates from the notebook K1, having been torn from the paper strip 4th in from the front. |
| R3CFYM | 1. The notepad was examined. As received, the 4th, 5th and 6th pages of the notepad were partially ripped out. The paper fragments of these three pages were still attached to the spiral ring. Some numeral entries and English Letters were found on the 7th page of the notepad. The remaining inner pages were all blank. 2. The threatening note was examined. The words "I WILL KILL YOU" were found written on one side while the other side was blank. Torn edge was found on the left-hand margin of the threatening note. 3. Examination of the 7th page of the notepad revealed indented marks of writing. The indented marks of writing were found to be superimposable to the handwriting on the threatening note. The above findings indicate that the 7th page of the notepad was placed directly underneath the threatening note when the handwriting was executed. 4. Moreover, the torn edge of the threatening note could be physically fitted together with the torn edge of the paper fragment of the 4th page of the notepad. The above findings indicate that the threatening note had been ripped out from the notepad. 5. Furthermore, the threatening note and the inner pages of the notepad were also agreed in color, height, design of background printing (singled[sic]-lined) and unique dirt mark (ink stains on the lower right hand edge of the page). 6. In view of the above findings, I am of the opinion that the threatening note originated from the notepad. |
| R4XFUW | Indentations of the questioned text from Item Q1 were observed on the fourth full page, counting from the front cover, of Item K1 (the seventh page if the page fragments are counted also). An image of this indentation will be provided under separate cover. The torn/cut items were at one time attached - It was determined that the Item Q1 piece of paper and the first page fragment, counting from the front cover, of Item K1 were at one time attached. |
| R7QM6G | After examination I reached the following conclusion: 1 The threatening note marked "Q1" originates from the notebook marked "K1". 2 The note was torn from the page marked "K1 (a)" (by the examiner). |
| RAQGWB | Based on visual and instrumental examinations of Exhibits Q1 and K1, it was determined Exhibit Q1 originated from Exhibit K1 based on the following observations: Fracture match examination determined Exhibit Q1 was once connected to Exhibit K1 (the first torn remnant). The black fluid ink mark on the bottom edge of Exhibit Q1 and K1 align. Sourced indented impressions were observed on Exhibit K1. These impressions were sourced to Exhibit Q1. |
| RFVXXX | The questioned note (Q1) originated from the recovered notepad (K1). |

TABLE 3

| WebCode | Conclusions |
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| RJDFMG | The Q1 note was once a part of Item K1, specifically that portion found in the K1 notepad numbered K1.1, which is a remaining torn portion found intact and attached to the metal spiral binding. This opinion is based on the notation of paper fracture matches between the Q1 and K1.1 papers and on examination for indentations that revealed the Q1 hand printing in indented form on the K1.4 and K1.5 pages within the K1 notepad. No conclusion could be reached as to a common writer for Items Q1 and K1.4. This opinion is based on the notation of a class characteristic style of writing found on Q1, lacking sufficient individualization. Optical examinations revealed no appreciable differences between Q1 and K1.4 with respect to paper or rulings, however, a destructive examination is recommended to preclude any chemical differences. This is especially warranted on the writing inks as some slight variations in reactions were noted. |
| RJX7RV | The questioned threatening note (Q1) origins[sic] from the notepad (K1). |
| RKM6UE | The examination resulted in the finding that the questioned note (Q1) originated from the notepad (K1), due to the following aspects: 3.1 Indentations on the notepad (K1) were revealed, which matches the wording on the note (Q1). 3.2 Both the substrate (K1 and Q1) are UV bright. 3.3 Physical match collaborate that the note Q1 originated from notepad K1. |
| RZM8R8 | The torn edges of Exhibits Q1 and K1 (spiral remnants of pages 4-6) were examined and compared visually, microscopically, under infrared and infrared luminescent light sources. The examination and comparison revealed that Exhibit Q1 originated from (was once part of) K1 (notepad), specifically the spiral remnant of page 4. Please see the attached images for details. The examination also revealed that the black line of liquid ink present along the bottom right edge of Exhibit K1 (notepad) and the bottom right portion of K1 (pages 1-3 and 7-9), is also depicted in the bottom right portion of Exhibit Q1. Exhibits Q1 and K1 (pages 1-3 and 7-9) were examined for the presence of handwriting indentations using the Electrostatic Detection Apparatus (ESDA). Results were negative for Exhibits Q1 and K1 (pages 1-3). Results were positive for Exhibit K1 (pages 7-9). The indentations recovered on Exhibit K1 (pages 7-9) appear to read "I WILL KILL YOU", which is the same entry depicted on Exhibit Q1. This indicates that Exhibit K1 (pages 7-9) was beneath Exhibit Q1 when it was written. Please see the attached images for details. Exhibits K1 and Q1 will be returned to the submitting agency. [Images were not included with the report.] |
| T2T9RW | It was determined that the Q1 note was at one time attached to page 4 of the K1 notepad. Indented writing was observed on page 7 of the K1 notepad that corresponds to the Q1 writing. |
| TCTHW9 | The questioned note, Q1 originated from the recovered notepad, K1. |
| THDE6B | In light of the observation, I came to the conclusion that the questioned note "Q1" originated from (was once part of) the notepad "K". |
| TJ8ZWG | The questioned note originated from the note pad. |
| TKNKZ6 | I examined "Q1" and "K1" and found that: i. The torn edge of "Q1" matched physically with the torn edge of page 4 of "K1"; and ii. The indented writing impression lifted from page 7 of "K1" showed the words "I WILL KILL YOU". This indicated that page 7 of "K1" was below "Q1" when the handwritings were executed on "Q1". In view of the above findings, it was concluded that Q1 was at one time joined to page 4 of "K1" as a single piece of paper. |
| TNL2BE | Visual examination, infrared and ultraviolet examination, and electrostatic processing reveals the following: The questioned note (item 1a) originated from the notepad (item 1b). Items 1a and one page from item 1b were at one time joined. One page from item 1b was processed for the presence of indented writing with positive results. The text from the questioned note (item 1a) was detected. The ESDA sheet has been added as item 2 and will be returned with the original evidence. |
| TUATE2 | The evidence was evaluated in terms of the following competing propositions: Proposition 1 (H1): Q1 was once part of K1. Proposition 2 (H2): Q1 originated from some other source (eg. writing pad) and was never part of K1. The evidence provides extremely strong support, verging upon conclusive, for H1 |

TABLE 3

| WebCode | Conclusions |
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| | over H2. |
| TZHLKD | After examination and comparison the notepad marked (K1) I found that the note (Q1) originated from notepad marked (K1). The following observation were made: 1. Physical match at the edges of the torn pages marked (Q1) and the edges of the first torn piece of page on the notepad marked (K1). 2. Indented writing of the reading "I WILL KILL YOU" observed on the first page after torn page, the notepad marked (K1) dated 3/2/15. |
| U9LN9M | The questioned note "Q1" originated from the notepad "K1". Identification is based on the following: 3.1 Physical match (Using flood lights from the Video Spectral Comparator). The notepad "K1" had three pieces of pages that remained when pages were cut. After conducting a physical match of the the[sic] remnants of the cut pages in "Q1" and the questioned note "K1", one of the pages on "Q1" matched with "K1" (in the edges of the papers complemented each other, the lines were similar in number and space between them). 3.2 Presence of Indentations (using ESDA). Change in the electrical potential of the indented areas (or part of the paper with writing impressions) revealed the presence of indentations of the questioned note "Q1" reading "I WILL KILL YOU", that were observed on the first page immediately below the cut pages of notepad "K1". 3.3 Presence of Indentations (Using oblique or side lights from the Video Spectral Comparator). Indentations of the questioned note "Q1" reading "I WILL KILL YOU", were observed on the notepad "K1", revealing the same writing. |
| UKKC9X | It was determined that the Q1 note was at one time attached to page 4 of the K1 notebook. Indented writing of the Q1 note was observed on page 7 of the K1 notebook. Additional assessments and observations have been made and recorded for possible future comparisons. |
| V8CWZ8 | Upon completion of an examination and comparison of the exhibit and standard submitted in this case, it is the opinion of this examiner that the Q-1 exhibit was once an integral part of the K-1 standard. Specifically, the Q-1 exhibit was once an integral part of the paper remnant designated K-1 4 found inside the K-1 notebook. One of the whole pages of the K-1 notebook, page K-1 7, was processed with the ESDA. Impressions interpreted as "I WILL KILL YOU" were recovered. A copy of the ESDA result will be attached to the evidence envelope. |
| VAUDTC | Microscopic, visual and instrumental examinations were conducted to determine if the Item Q1 note originated from the Item K1 notepad. Examinations included; visual examinations with light directed from various angles, fracture comparisons, microscopic examinations, electrostatic detection apparatus examinations for indented writings, and spectral imaging for stray marks and hidden writings. It was concluded that: the Q1 note was at one time a single piece of paper with one of the stubs in the K1 notepad, and the handwriting of the Q1 note was written while in contact with the notebook. |
| VAUR9C | After an examination I found that the questioned note (Q1) originated from the recovered notepad (K1). 3.1 My observations were based on the following: 3.1.1 The physical match was observed between the disputed note and piece of note found in the recovered notepad. 3.1.2 The indentation of the writing "I will kill you" on the note appears on the page of the recovered notepad. |
| VC26TY | After analysis, comparison and evaluation plus verification of Q1 and K1 with the use of a stereo microscope and ESDA, I found that the writing in Q1 came from the note book K1 as the letters "LL" emerged under electrostatic use and the edges (torn0[sic] from Q1 match those from K1 when comparing them. |
| VF2DYU | The question note Q1 originated from the recovered notepad K1. |
| VLMCP3 | A definite opinion could not be reached whether the Q1 specimen originated from the K1 notepad. However, the Q1 specimen corresponds in size and design. |
| VM3WTR | Microscopic and instrumental examination and comparison of the submitted items revealed the following: The note in item Q1 originated from the notepad in item K1. Indented writing consistent with the note in item Q1 was developed from the notebook in item K1. The torn edge of the note in item Q1 was compared with the paper remnants left in the notebook in item K1 and found to match one of the remnants. During examination the paper remnants were removed from the notebook in item K1 and |

TABLE 3

| WebCode | Conclusions |
|---------|---|
| | repackaged. In addition the paper and inks used on items K1 and Q1 could not be differentiated under various light sources and settings. |
| VU4M34 | It is my professional opinion that the questioned note originated from the recovered notepad. The questioned note contains important pieces of information that connect it to the recovered notepad. The questioned note embodies: 1) Tear marks on the left side of the document, matching tear marks from residual paper left in recovered notebook. 2) A scored downward edge on the right side of the document, matching the same type of scoring on pages in recovered notebook. 3) Same type and size of white lined paper as recovered notebook. 4) Black felt tip dot on lower right of document, matching a black felt tip vertical line created on the recovered notepad. |
| WADVJX | In my professional opinion, the questioned document was most likely produced while residing in K1 notepad directly or indirectly above the page beginning, "3/2/15 Math:..." |
| WJXUXM | After an examination and comparison of exhibit marked "Q1" with a note pad marked "K1", I reached the conclusion that the questioned note "Q1" originated from the recovered note pad "K1", based on the following observation written below: The note pad "K1" was having three missing pages, which indicates that they were cut out from the note pad. The size of the "Q1" note when merged with the missing pages in "K1" is of the same size as the original pages in the note pad. There was consistent black line on the bottom right hand side of the note pad which was identical to the one found on the note. The writing inks on the two documents were having similar reaction of fading when observed under a filter light of 645 nm. The indentation observed from "K1" using VSC were lifted using the ESDA instrument which matched the writing "I WILL KILL YOU" on "Q1". This indicates that the written note "Q1" was part of the removed pages from the note pad marked "K1". |
| WNVLHZ | The sheet "Q1" belong to the notepad "K1" and correspond to the first cut page of the notepad "K1". |
| WPLHTR | The note Q1 was once part of the notepad K1. Q1 was torn from the notepad, together with 2 other absent pages, leaving 3 stubs. 2 further leaves may have been removed, but not leaving traces of stubs, from sections 1 and 2 of the notepad. The writing of the note Q1 has made indented impressions on the page dated 3/2/15 in K1, so the note was in close contact with that page, the writing was probably made before Q1 was torn from K1. Should handwriting samples, in capital letters, of a suspect become available it would be possible to compare the samples with the writing on the note Q1. |
| WQYGYH | After examination of handwritten note and note pad I found that the note originates from the note pad. A physical match of the note and note pad under flood light was positive. Indentations on the hand written page of the note pad were observed under ESDA and side light. |
| WZNT9U | It was determined that the Q1 document was at one time attached to the page 4 portion of the K1 notebook. Indented writing was observed on page 7 of the K1 notebook which corresponds to the text found on the Q1 document indicating that the pages were in contact with Q1 when it was written. Additional observations have been made regarding the submitted items and recorded for possible future comparisons. |
| X383WL | According to the analyzes performed, the provided material (Q1) and (K1), and the reasoning set out above technical, it is determined that the dubitado note comes from the book seized.[sic] |
| X7KJWX | Based on the test and analysis I have conducted, I have concluded that the questioned document or item "Q1" originated from the recovered note pad "K1". |
| X8GZ9U | Note questioned threat originated from notebook recovered. Therefore the list of conclusions of the questionnaire response have selected the letter A. The threatenings note was originated from the first cut of the notebook. |
| XGQP4Y | Document Q-1 originated from the known notepad recovered. |
| XGRKPQ | It was concluded Q1 originated from K1. |

TABLE 3

| WebCode | Conclusions |
|---------|--|
| XTK44V | The note, Q-1, originated from the notepad, K-1. |
| XZ3LFH | I found the evidence to support the proposition that the note marked as "Q1" did originate from the notepad marked "K1" and more specifically the page was torn from the page marked as "K1.1" by the examiner. |
| Y69E8T | 1) The Q1 note originated from the spiral notebook found as K1. 2) ESDA results show the impressions of the questioned hand printing on the internal page reading "3/2/15" regarding math & english assignments. 3) The 3 strips found above the 3/2/15 K1 note bear cut marks and through microscopic and photographic examination, the Q1 note most probably was attached to the top strip of the 3 strips found in K1. 4) The black edge mark found at the lower right corner of the Q1 document matches the similar black marks found in the K1 notebook. |
| YEUTUV | The results of the forensic examination of the threatening note and the notepad recovered from one of the suspected students prove that the questioned note (Q1) originated from the seized notepad (K1). The main results were: Indented lines of the threatening note were found in the notepad. The edge lines of Q1 fit the edge lines of one of the page remnants. No differences concerning paper and ink could be observed. |
| YK4WWQ | The examination results showed the page having the writing in question originated from the notebook submitted for comparison. The conclusion was based upon the conformation of the optic brightness of the questioned note with the notebook paper, the match of the paper fracture of the questioned note with the first torn paper remnant in the notebook, as well as the alignment of the written text on the the[sic] note with the indentations on the first page in the notebook containing handwriting. |
| YMQ6XY | Notebook K-1 and Q1 were examined using forensic techniques. The procedures are grounded in the generally accepted body of knowledge and experience in the field of forensic document examination. By following these procedures a forensic document examiner can ascertain within a reasonable degree of certainty the authenticity of a signature, document or questioned material. The (K1) notebook and torn page (Q1) were examined using a Miscope MP 2-IR Microscope, 40x, 40x with on board 2 MP digital camera and Infrared light source, and a Celestron Digital Microscope with 10x-150x with on board 2 MP digital camera. A Logan A-7a edge light pad and Projectina 10x magnifier were employed as well as Oblique lighting techniques and various magnifiers. |
| YN3924 | It has been determined that the questioned note (Q1) originated from the recovered notepad (K1). K1 was examined with side lighting & the ESDA for latent indented writing. Sidelighting revealed what appears to be the word "WILL". ESDA results revealed the phrase "I WILL KILL YOU" found on Q1. Copies of the ESDA lifts are attached to report. A microscopic paper fiber examination was performed between Q1 & the three paper strips found in K1. Matching paper fibers were found between Q1 & one of the paper strips using oblique & ultraviolet lighting. See attached images. [Images were not included in report.] |
| YWZXKT | The Item Q1 note originated from the K1 note pad. |
| YZF8CK | I found the evidence to support the proposition that the "note" marked as "Q1" did originate from the "notepad" marked as "K1". |
| Z2MKXR | Based on the observations made to the notebook, specifically to three (3) argolladas butts and cut sheet containing the manuscript threatening "I will kill you", it follows that the sheet labeled "Q1" comes from the first argollada cigarette that is part of the notebook labeled "K1". [sic] |
| Z2Q4KV | After an analysis I found that the questioned note originated from the notepad. |
| Z4BGGX | Indentations resulting from the text seen on the questioned note (Q1) were located on page 7 of the submitted notebook (K1). These show that the text of the questioned note was completed while it was resting within the notebook K1. Both gross and subtle similarities were found between the torn edge of the questioned note and that of the stub in page position 4 (marked by me K1.4) in the submitted notebook. These similarities included a consistent tear pattern and matching severed fibres. Based on |

TABLE 3

| WebCode | Conclusions |
|---------|---|
| | these similarities I concluded that the questioned note has been torn from the paper stub K1.4 and has therefore originated from the notebook K1. |
| Z62GZ9 | 1. "Q1" originate from the document marked "K1". 2. The wording "I WILL KILL YOU" was revealed from the document marked "K1". |
| Z7J9EY | I find that there is a physical fit between the torn edge of the note, item Q01 and one of the torn pages in the book K01. In my opinion the note Q01 was once part of the book K01. |
| Z8QNJK | 3.1 After a comparison and matching of the respective materials, I discovered the writing, paper fibers, torn on the threatening note marked Q1 showing significant similarities in respect of the paper fibers, torn, physical match, letter design and construction, relative size and general execution to the Notepad K1. 3.2 In the matter at hand, I applied the examination methodology (ACE Law) utilizing VSC: Various lighting techniques and Esda. After examination and comparison I reach the conclusion that: 3.3 The question note marked (Q1) originated from the recovered Notepad marked K1. |
| ZBUGGP | Demonstrable evidence in the subject notebook shows a clear connection to document Q1. |
| ZF6X7Y | Exhibits Q1 (the questioned note) and K1 (the notebook) were examined visually, microscopically, under ultraviolet, infrared, and infrared luminescent light sources and these examinations revealed the following: The writing ink, paper, and printed margin lines of Exhibit Q1 are similar to that found on Exhibit K1 (7) (a page with handwriting from the notebook - Exhibit K1) and were not distinguishable at this level of analysis. Also, Exhibit Q1 and several pages of Exhibit K1 contain a similar marking of a black liquid-type ink located at the bottom right corner. This ink was also examined visually, microscopically, under ultraviolet, infrared, and infrared luminescent light sources and the ink of these markings were not distinguishable at this level of analysis. Please see the attached images for details. Further, physical and microscopic edge examinations of the torn left edge of Exhibit Q1 and those torn edge remnants located in Exhibit K1 and designated as Exhibit K1 (pages 4-6) revealed that Exhibit Q1 and Exhibit K1 (page 4) were at one time joined to form a single piece of paper. Please see the attached images for details. In addition, some of the indentations found on Exhibit K1 (pages 7-10) originated from the handwritten entries found on Exhibit Q1. These results indicate that Exhibit Q1 originated from Exhibit K1. Exhibits Q1, K1 (1-10), and the original ESDA indentation lifts were digitally scanned and a CD of the digital images will be retained by this laboratory. [Images were not included with the report.] |
| ZQRWYP | It was determined that the edges of Q1 and K1 page 4 were at one time attached. Indented writing was observed during the examination of K1 pages 7 and 8 and corresponds to the writing on Q1. This indented writing is best read as: "I WILL KILL YOU". Four photocopies of the indented writing will be returned under separate cover for your investigative assistance. The handwriting on Q1 is suitable for comparison. If future handwriting comparisons are desired, dictated and undictated known writing should be obtained from any logical suspect(s). The known writing should be comparable to the questioned writing in wording, format, and style. Dictated known writing should be obtained on lined paper similar to the questioned specimen and should be removed from the writer's view upon completion. Numerous repetitions may be necessary in order to obtain naturally prepared writing. Undictated known writing consists of writing prepared during normal course of business activity. Possible sources of undictated known writing include business papers, letters, canceled checks, and/or applications. Additional assessments and observations have been made regarding the submitted specimens and are recorded for possible future comparison. [Images were not included with the report.] |
| ZXPN3C | When examined item K1 contains writing impressions consistent[sic] with the writing on item Q1. The torn/cut edge of item Q1 can be physically matched to the torn/cut edge of the 1st stub of paper in item K1 in relation to the contour of the torn edges and the alignment of the page lines. Item Q1 can also be matched to the remaining pages in item K1 in relation to the black dots at the base of the pages. Based on these observations I have determined that item Q1 was a page within K1 when the writing was produced. The questioned note (Q1) originated from the notepad (K1). |

Additional Comments

TABLE 4

| WebCode | Additional Comments |
|---------|--|
| 247VA3 | The notepad "K1" is the origin of the note "Q1". |
| 3ZLNZU | he[sic] writing on the questioned document (Q) and specimen could not be matched at this stage as there is a lack of additional specimens to make a conclusive finding. Size of the paper and black mark at the bottom of the page with a marker aligns with the questioned document and note pad. |
| 46TYNY | Submission of two types of additional known writing samples by the K1 writer could enhance a subsequent examination of this case and may result in a more conclusive opinion. These samples are: Requested - These samples should be taken on twenty (20) to thirty (30) sheets of paper, duplicating the questioned document(s) in size, shape, and format. The text of the questioned document(s) should be written verbatim, at the dictation of the investigating officer. Do not allow the writer to see the questioned writing prior to producing the samples, and remove each exemplar from view after it is written. Collected - Provable writing samples that were produced in the past during the course of the subject's normal daily affairs, such as legitimate canceled checks, job applications, court records, etc. These samples help verify that the writing samples taken at the request of the investigating officer are normally written. These samples also offer a broader range of an individual's writing for examination. |
| 4L4LAA | The spiral binding of K1 was removed for examination purposes and reattached after completion of the examination. |
| 4RLVGJ | Ultraviolet and infrared examinations were also conducted which are in support of the above stated conclusion. |
| 6D7PVQ | Side/Oblique lighting was used as an additional tool to examine the note pad and the questioned documents. |
| 7LFYUP | The edge the questioned note fits perfectly with [sic] edge of the missing fourth [sic] of the notepad recovered. |
| 7VZBYA | The findings are demonstrable through enlarged illustrative charts. All illustrations and observations stored according [sic] quality system. In questioned document examination we use 5 point conclusion scale, like proposed in section 1. |
| 7ZCQKE | Original writing was found on the exhibits. Should a writing ink examination be required, a request for ink analysis must be submitted. |
| 8E3ACM | The top, bottom and right-hand edges of the handwritten note, item Q1, have the appearance of being "machine made" but the left-hand edge is very slightly jagged as though torn against a straight-edge. The writing of the note is heavily indented into the paper. The paper of the handwritten note, item Q1, is of the same general appearance and dimensions as the leaves in the notepad, item K1. The printed lines on the note are of similar appearance to those on the leaves in the notepad and a black mark on the bottom edge of the note corresponds in appearance and position with marks on all the leaves currently in the notepad. Three plastic dividers, held within the binding of the notepad, item K1, separate its leaves into four sections. In the first section, between leaves three and four, there are three stubs held in the wire binding showing where each of three leaves had been in large part removed. Illuminating the fourth leaf of the notepad at low angles revealed faint indentations which match the wording of the note, item Q1. Had that note been written while resting directly on the current fourth leaf I would have expected to see much deeper indentations. Using a low-power microscope I observed that the torn edge of the handwritten note matches closely the torn edge of the first stub in the notepad and I found no such match with the torn edge of either the second or third stub. The faintness of the indentations found on the fourth leaf would be explained had the note been written while resting on that leaf not directly but with two other leaves intervening. I removed leaves 4 and 5 from the notepad, leaving a stub of each within the binding, numbered them in their lower-left corners, and searched each for indented impressions using the electrostatic technique. In each leaf I found indentations which matched the writing of note, item Q1. The match was sufficiently close for me to conclude that those indentations in the notepad, item K1, were caused by the writing of the note, item Q1. In each of leaves 4 and 5 the |

TABLE 4

| WebCode | Additional Comments |
|---------|--|
| | position of the indentations with respect to the edges of the leaf was the same as the position of the writing in the note with respect to the edges of that leaf. That leads me to conclude that it is almost certain that the note, item Q1, was written while that page was bound in the notepad, item K1. |
| 8RV4XA | The questioned writing is fluently written with no obvious distortions as is the writing on the 4th full page in K-1 (notebook). However, the writing on the 4th full page in K-1 is insufficient to conduct a meaningful handwriting comparison with the questioned writing. If appropriate known writing samples could be obtained a handwriting comparison could be conducted of the Q-1 writing. Additionally, Q-1 could be processed for latent prints for identifiable prints, which if present could be compared to known impressions (if obtainable). |
| 8WBRFK | In summary to the results of the document examination, it is revealed that the note Q1 has been written when still in contact to the pages in the notepad. Faint latent traces of writings were detected on the paper surface of the page with the notes "2/2/15[sic] Math: #1-25 #30-35 English: p. 16-88 worksheet" of the notepad K1. |
| 9T24DZ | Should a handwriting examination of the hand printing on the Q1 note or on page 4 in the K1 notebook be desired, known writing should be collected from any subjects of interest and submitted to the Forensic Document Unit (FDU) along with the writing in question. The electrostatic detection device (EDD) lifts are uniquely labeled CTS15521.001 and CTS15521.002; are considered secondary evidence; and will be returned with the originally submitted items. Scanned images of the EDD lifts and the items submitted are being retained by the FDU for future reference. |
| AGAKQH | Q1 matched K1-1, but there are two torn sheets that were once part of this notebook that were not submitted with this case. |
| BVHH2F | In this case it would be important documentología[sic] previous study, make a fingerprint scan in order to locate possible fingerprints of the person or persons they may have manipulated the note |
| CAVDUG | The reasons that no indented writings were detected on the paper beneath the three torn pages in K1 are probably due to: (i). the writing impressions only remained on the second and third torn papers (the fifth and sixth pages in K1), thus they were removed (torn), or, (ii). a hard paper was put underneath the questioned note to avoid indented writings being detected. |
| CAWHHJ | The evidence provided by the ESDA demonstrates ONLY that the Q1 note was written while positioned in the notebook. It DOES NOT allow for the conclusion that the Q1 note was once part of the notebook. The tear pattern match (confirmed under IR Luminescence) allows for the conclusion that the Q1 page also originated from the notebook. Other observations/evidence that was noted, but not pursued due to its low probative value relative to that provided in the paragraph above. These observations included (from highest to lowest relative probative value): Guillotine marks on the Q1 page which were similar in location to the prominent ones seen on the edges of the K1 notebook. Black marker slash across bottom edge of K1 notebook. Black mark seen on the Q1 page consistent in position to that of the notebook mark. Similar offset litho printing defects within the K1 notebook and the Q1 page. Handwriting - clockwise formation of 'O' in Q1 "YOU". Clockwise formation of 'O' in "30" entry in K1. Visually similar black ballpoint pen (K1 and Q1) |
| CZV78B | Lab item #1 (K1) small note pad was found in small envelope marked "test No. 15- 521 Item Q1." Lab item #2 (Q1) torn partial piece of small note pad paper with handwriting thereon found in small envelope marked "test No. 15-521 item K1." resealed the evidence as found. |
| DBQJ42 | The scale of conclusions is based on the logical approach and is constructed exclusively for evidence evaluation at [Laboratory]. Level +4 The results of the examination extremely strongly support that ... The results are extremely more probable if the main hypothesis is true compared to if the alternative hypothesis is true. Level +3 The results of the examination strongly support that ... The results are much more probable if the main hypothesis is true compared to if the alternative hypothesis is true. Level +2 The results of the examination support that ... The results are more probable if the main hypothesis is true compared to if the alternative hypothesis is true. Level +1 The results of the examination support to some extent that ... The results are somewhat more probable if the main hypothesis is true compared to if the alternative hypothesis is true. Level 0 The results of the examination support neither ... nor ... The |

TABLE 4

| WebCode | Additional Comments |
|---------|---|
| | results are equally probable if the main hypothesis is true compared to if the alternative hypothesis is true. Level -1 The results of the examination support to some extent that ... was not ... The results are somewhat more probable if the alternative hypothesis is true compared to if the main hypothesis is true. Level -2 The results of the examination support that ... was not ... The results are more probable if the alternative hypothesis is true compared to if the main hypothesis is true. Level -3 The results of the examination strongly support that ... was not ... The results are much more probable if the alternative hypothesis is true compared to if the main hypothesis is true. Level -4 The results of the examination extremely strongly support that ... was not ... The results are extremely more probable if the alternative hypothesis is true compared to if the main hypothesis is true. If one of the hypotheses can be excluded other terms are used, such as "it is", "it is not" or "it can be excluded that". |
| DM2B9M | Handwriting Comparisons Results: Handwriting comparisons between page 7 of Item 1 and Item 2 will not be conducted at this time. If handwriting comparisons are later requested, known writing in all upper case, containing similar letter combinations and words as the questioned writing must be submitted. (No Exam) |
| EBKNWZ | * Practical Certainty: Since it is not possible to collect and examine samples of all similar tears, it is not possible to make an identification with absolute certainty. However, all scientific research to date and the extremely large number of discernable ways in which paper can be torn or cut have demonstrated that even without a numerical threshold, document examiners can reliably make identifications. |
| ED9U2C | When I refer to the first chunk of paper, be had in it counts to that it is later to the leaf without texts.[sic] |
| F3RV3F | The evidence was examined and imaged. In the event that a handwriting examination is requested in the future, resubmission of the original questioned document is desired. Please contact the Questioned Document Unit regarding obtaining known writing samples, if necessary. This office does not have the capability to chemically analyze the questioned writing on Q1 and K1.7 to determined if the ink(s) are the same ink formulation. In order to determine this, the evidence should be forwarded to [Laboratory] in [State]. If this type of examination is desired, please contact your local [Laboratory] field office in order to make the necessary arrangements. |
| F4XHFJ | The Exhibit K1 notebook contains hand printed material that is not comparable to the questioned material appearing on the Exhibit Q1 item. |
| F8H8YW | Further examinations with a view to possibly determining whether the entry on Q1 was written before or after the entries on page 4 of K1 with which it intersects can be undertaken if required. Examinations with a view to possibly determining who wrote the questioned note can be undertaken on receipt of suitable specimen handwriting [sic] any suspected writer/s. Document Q1 can be examined for the presence of latent fingerprints and, if developed and depending on clarity, comparison with known fingerprints of any suspects. However, such examinations are invasive and should only be undertaken following completion of any necessary further forensic document examinations of the handwriting and sequencing of the entries. |
| FB28B7 | The indented impressions of the q1 note were found in the k1 notebook along with the fracture match of the paper with a segment of paper in the ring binder. |
| FDN4JW | The tear comparison provides conclusive evidence that Q1 was at one time a single page with the uppermost of the torn spines in K1. Indentations revealed on the page in K1 containing writing shows that Q1 was on top of this page when Q1 was written. |
| HFNQBR | A handwriting examination of the questioned material appearing in Item Q1 is possible with the submission of known hand printing from any potential subjects. This should include the completion of a standard exemplar form along with multiple repetitions of the questioned material. Non-request hand printing such as course of business writings, personal correspondence, etc., that is comparable to the questioned material may also prove beneficial in this examination. |
| JRZD24 | Had issue with visual/ESDA examinations regarding the notepad, specifically pages following page fringes. Indented impressions were barely visible and ESDA had to be performed multiple times. Also found other extraneous markings/impressions on those same pages. |

TABLE 4

| WebCode | Additional Comments |
|---------|--|
| L34P23 | K1 has a black line from one side to the other. Q1 has a black dot in the down side border. |
| LTVMPW | Microscope - There was a black ink mark on the right bottom of the disputed note marked "Q1" that match the res[sic] of the marks on that place/position of the notepad marked "K1". |
| MEEB92 | While a set of ESDA examinations were conducted, it was observed that the physical structure of the K1 booklet hindered the examiner's ability to conduct the best possible examination. Multiple attempts were made, with the booklet being placed on the ESDA platen a number of different ways in order to attempt to gain a clear result. Due to this continued difficulty to obtain clear ESDA results, the ESDA examinations were not completed on the reverse of the page preceding the written page in the notebook, nor the following page. |
| NADV4 | If actual casework, the investigator would have been asked permission to disassemble K1 in order to conduct EDD latent indentation analysis on page 7. |
| P8B68V | During the technical analysis you can see that the note in question Q1 was positioned in a fourth in the K1 book. Among other special features allowing to demonstrate that questioned sheet Q1 comes fom[sic] the confiscated book K1, correspond to gluing, printed lines and the size of the sheet Q1 opposite other sheets of the book K1; point inking and the same position, seen at the edge bottom of each of the sheets and the presence of ductus or traces of the signs that are detected in the seventh book K1 sheet, which are the product of the pressure exerted by the clerk at the time of writing, whose paths match the hand writings Q1 in terms of topographical distribution, tilt, size and position of the signs in the spaces preset. Even hand writings of seventh the confiscated book sheets presents similar intensity of ink with the hand writings of questionable note Q1, during with the VSC 6000 /HS spectrometric analysis. |
| QPLJYB | No analysis was performed on K1 Items 1.1 to 1.3 and 1.8. |
| RAQGWB | Indented impression examination with ESDA was not conducted due to need to preserve evidence for other examiners and sidelight was found to be sufficient in this case. |
| TCTHW9 | A handwriting comparison could be made between the questioned note and comparable repeated hand printing performed by the suspect. |
| TUATE2 | The opinion tendered above is based upon the information and material provided to the examiner, as well as being based upon the specific propositions shown above. Should the information or propositions change, the opinion may also change. |
| VC26TY | The complete wording 'I WILL KILL YOU' did not appear when checking for indentations due to the fact that two pages after Q1 were torn off and I had a 4th page available to examine as the closest page after Q1. |
| WADVJX | I recommend that block hand printing of the student who produced this notebook be provided for analysis in order to potentially identify the writer of Q1. |
| X7KJWX | The edges of the remnants papers in the recovered note pad "K1" matches the edges of the document "K1"[sic]. The black mark at the bottom of the questioned document "Q1" also matches the black marks found in the recovered note pad "K1". |
| X8GZ9U | Resoectfully[sic] it suggests that the agreement with CTS the Office of the Attorney General of [Country] apply this kind of tests more often because they are a valuable tool to strengthen our procedures. It would be interesting application of evidence realted[sic] to physical alterations and optical study of inks interpreting graphs in the spectrum of light. |
| YMQ6XY | It is the conclusion of this examiner that Q1 (the torn page) is from K1 - the suspect notebook. There is a black vertical line 1" from the right side of K1 - the notebook that extends vertically down across the pages. A black spot on the Q-1 suspect page aligns with that verticle[sic] line. The torn edges of Q1 the suspect page & page 4 of K1 - the notebook align. Indented writing, although faint, can be seen that correspond with several letters of Q1 the suspect page. Therefore a conclusion of identification is hereby rendered. The torn page (Q1) is from the suspect notebook (K1). |

TABLE 4

| WebCode | Additional Comments |
|---------|---|
| Z4BGGX | Handwriting specimens completed in an upper case printed style from any suspects could be submitted for comparison with the questioned handwriting. However, its basic nature and limited content may be a limiting factor in any comparison. |
| Z7J9EY | There is a physical fit between torn edge of Q01 and the first torn page in the book K01 faint impressions of note Q01 on page beginning 3/2/15. Would prefer to remove page for ESDA testing to confirm |
| ZF6X7Y | The questioned handwritten entries on Exhibit Q1 do appear to be naturally written and contain some identifiable handwriting characteristics though, it may not be sufficient for comparison with a known writer. However, if a handwriting comparison is needed, please submit fifteen to twenty samples of the known writer writing the exact text of the questioned entries along with some samples of normal-course-of-business writings. |
| ZQRWYP | Torn Edge Methodology |
| ZXP3C | A handwriting examination and comparison between the questioned handwriting and a suspects specimen handwriting could be of value. |

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 15-521: Questioned Documents Examination

DATA MUST BE RECEIVED BY June 08, 2015 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Accreditation Release Statement

CTS submits external proficiency test data directly to ASCLD/LAB and ANAB. 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 and/or ANAB.
(Accreditation Release section on the last page must be completed and submitted.)
- This participant's data is NOT intended for submission to ASCLD/LAB or ANAB.

Online Data Entry

Visit www.cts-portal.com to enter your proficiency test results online. If you have any questions please do not hesitate to contact CTS.

Scenario:

Police are investigating a written threat directed at a bullied high school student. The victim found a handwritten note left under the windshield wiper of his car, reading "I WILL KILL YOU". The note follows several weeks of verbal harassment by a group of several other students. Investigators are asking you to compare the note with a notepad that was recovered from one of these students and determine if the note could have originated from it.

Please follow your laboratory's standard protocol for examining questioned document evidence.

Items Submitted (Sample Pack QD):

K1: Notepad recovered from one of the suspected students.

Q1: Threatening note left on the victim's car, reading "I WILL KILL YOU".

1.) Could the questioned note (Q1) have originated from (was once a part of) the notepad (K1) recovered from one of the suspected students?

(Select from the following list of conclusions and insert the appropriate letter in the space provided in the table. If the wording below differs from the normal wording of your conclusions, adapt these conclusions as best you can and use your preferred wording for question 3.)

- A. The questioned note ORIGINATED from the recovered notepad.
- B. The questioned note PROBABLY ORIGINATED from the recovered notepad.
- C. Cannot be IDENTIFIED or ELIMINATED.
- D. The questioned note PROBABLY DID NOT ORIGINATE from the recovered notepad.
- E. The questioned note DID NOT ORIGINATE from the recovered notepad.

**Should the response "C" be used, please document the reason in the Additional Comments section of this data sheet.*

Q1: _____

Please return all pages of this data sheet.

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Participant Code:
WebCode:

3.) What would be the wording of the Conclusions in your report?

4.) Additional Comments

| | |
|--|---|
| <p>Return Instructions: Data must be received via online data entry, fax (please include a cover sheet), or mail by <i>June 08, 2015</i> to be included in the report.</p> | <p>Participant Code: ONLINE DATA ENTRY: www.cts-portal.com FAX: +1-571-434-1937</p> |
| <p>QUESTIONS? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: forensics@cts-interlab.com www.ctsforensics.com</p> | <p>MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA</p> |

Please return all pages of this data sheet.

Collaborative Testing Services - Forensic Testing Program

RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **15-521: Questioned Documents Examination**

This release page must be completed and received by **June 8, 2015** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

ASCLD/LAB RELEASE

If your lab has been accredited by ASCLD/LAB and you are submitting this data as part of their external proficiency test requirements, have the laboratory's designated individual complete the following.

The information below must be completed in its entirety for the results to be submitted to ASCLD/LAB.

ASCLD/LAB Legacy Certificate No. _____ ASCLD/LAB International Certificate No. _____

Signature _____ Date _____

Laboratory Name _____

Location (City/State) _____

ANAB RELEASE

If your laboratory maintains its accreditation through ANAB, please complete the following form in its entirety to have your results forwarded.

ANAB Certificate No. _____

Signature and Title _____ Date _____

Laboratory Name _____

Location (City/State) _____

Accreditation Release**Return Instructions**

Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.

*Questions? Contact us 8 am-4:30 pm EST
Telephone: +1-571-434-1925
email: forensics@cts-interlab.com*

Please return all pages of this data sheet.

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