



Manufacturer's Information

Questioned Documents Test No. 10-521

This test was designed strictly as a photocopier identification/elimination test. Each sample pack consisted of three questioned photocopied notes (Q1, Q2, and Q3) and two sets of three known photocopied exemplars (K1 and K2). Participants were requested to determine which, if any, of the suspect photocopiers were involved in the production of the questioned notes.

SAMPLE PREPARATION-

A total of three photocopiers were used to produce the two sets of known exemplars and three questioned notes. The glass surface of the photocopier was wiped clean prior to use. A black pen was used to mark the glass surface of the copiers to introduce additional trashmarks. One box of paper consisting of 5000 sheets was used to prepare all of the photocopied documents.

K1 and K2 (KNOWN ITEMS): Two photocopiers, both Xerox Workcentre Pro 245 models, were used to produce the known exemplars. The known exemplars were produced using the machine default settings and placing a blank sheet of paper on the glass to be photocopied. The same blank sheet of paper was used when the known exemplars were prepared on both photocopiers. The label was changed from K1 to K2 when the second photocopier was used. The photocopy sequence was noted by the handwritten "a", "b", "c" next to the "K1" or "K2" label.

Q1, Q2 and Q3 (QUESTIONED ITEMS): The three questioned notes were produced by gluing cut out letters and words from magazines onto blank paper and then photocopying them using two different photocopiers: Q1 ("I WILL HUNT YOU DOWN AND Kill YOU") and Q2 ("THE TIME HAS COME YOU WILL be MINE") were photocopied on the machine that produced the K2 exemplars, and Q3 ("Have \$25K By Saturday AND I will NOT REVEAL your SECRETS!") was photocopied on a Sharp AL1655CS photocopier for which no known exemplars were provided. The blank sheet of paper used to produce the K2 exemplars and the Q2 note were positioned on the glass in the same orientation, whereas the Q1 note was positioned on the glass in a 180° opposite orientation from the K2 exemplars and Q2 note.

SAMPLE PACK ASSEMBLY: For each sample pack, a Q1, Q2, Q3, K1a-c and K2a-c were placed in a sample pack envelope. Pieces of chipboard were used to separate Q1, Q2, and Q3, K1a-c, and K2a-c. This process was repeated until all of the sample pack envelopes were prepared. The sample pack envelopes were sealed with evidence tape and initialed "CTS".

VERIFICATION-

All three predistribution laboratories reported that the evidence supported the contention that the K2 photocopier was involved (reported "A" and "B") in the production of the Q1 and Q2 notes. Two of these reported that the evidence supported the contention that the K1 photocopier was not involved (reported "D") in the production of the Q1 and Q2 notes. The third laboratory neither identified nor eliminated (reported "C") the involvement of the K1 photocopier in the production of the Q1 and Q2 notes, citing in the conclusions that they were unable to determine the generation of the questioned notes and that it was possible that more than one machine was involved in the production. In regards to Q3, one of the predistribution laboratories reported that the evidence supported the contention that the K1 and K2 photocopiers were probably not involved (reported "D") in the production of Q3, whereas the other two predistribution laboratories neither identified nor eliminated (reported "C") the involvement of the K1 or K2 photocopiers in the production of the Q3 note. One of these expanded their response in the conclusions section, citing they were unable to make a conclusive response because they did not know the time sequence of which Q1, Q2 and Q3 notes were prepared. The other laboratory cited the possible involvement of more than one machine in the production of the questioned notes. The methods employed by the predistribution laboratories included Microscopic examination, Macroscopic examination, VSC - IR/UV, ESDA, Micrometer, Light box, Oblique Lighting and Magnetic Ink Detector.

Below is the information on each of the digital photocopiers used in this test:

<u>Photocopier</u>	<u>Manufacturer, Model</u>	<u>Produced</u>
"K1"	Xerox Workcentre Pro 245	K1 exemplars
"K2"	Xerox Workcentre Pro 245	Q1 and Q2 notes; K2 exemplars
Not provided	Sharp AL1655CS	Q3 note

The information presented here is that received from the sample manufacturer. It presents details of the design specification for the test samples and/or details of how they were prepared. This information does not necessarily represent the answers that should or could be obtained from an examination of the sample. Final interpretation of the results should be deferred until the summary report is available.