



Tenprint Examination

Test No. 22-5141 Summary Report

Each digital sample pack contained twelve single print pairs, eight questioned tenprint cards, and eight tenprint card standards. Participants were asked to compare the two prints within each single print pair to determine whether or not they originated from the same source. They were also asked to compare each questioned tenprint card to the standard cards to determine if any shared a common source. Data were returned from 48 participants and are compiled into the following tables:

	<u>Page</u>
<u>Manufacturer's Information</u>	<u>2</u>
<u>Summary Comments</u>	<u>3</u>
<u>Table 1: Single Print Comparisons</u>	<u>4</u>
<u>Table 2: Tenprint Comparisons</u>	<u>28</u>
<u>Table 3: Additional Comments</u>	<u>44</u>
<u>Appendix: Data Sheet</u>	

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 digital sample pack consisted of twenty questioned fingerprints and tenprint cards for comparison. Items Q1-Q12 contained a series of single print pairs, and Items Q13-Q20 contained tenprint cards for comparison to a pool of standards (A-H). In the first section, participants were asked to compare the single print pairs to determine if both prints originated from a single source. In the second section, participants were asked to compare the questioned tenprint cards to each standard to determine if any shared a common source.

SAMPLE PREPARATION-

Using several anonymized databases containing a limited number of fingerprints, both visual comparison and AFIX comparison software were used to select the single prints and tenprint cards provided in this test.

SINGLE PRINT PAIRS: For non-matching single print pairs, prints with similar first and second-level details were chosen, paired together, and designated as either a questioned or standard item in the pair. For each matching item, uniquely collected prints from the same finger of an individual were paired together.

TENPRINT CARDS: For non-matching tenprint card items, cards with similar first and second-level details were chosen and designated as either a questioned item or a comparison standard. For matching items originating from the same source, each card was designated as either a questioned or comparison standard item.

All prints were digitally resized to scale. The test items were then uploaded to the CTS Portal for download by test participants.

Single Print Pair	Same Source?	Tenprint Card	Match to Standard?
Q1	No	Q13	Standard G
Q2	No	Q14	No
Q3	Yes	Q15	No
Q4	No	Q16	No
Q5	No	Q17	No
Q6	No	Q18	Standard C
Q7	Yes	Q19	Standard B
Q8	No	Q20	No
Q9	No		
Q10	Yes		
Q11	No		
Q12	No		

Summary Comments

Each digital sample pack contained a variety of collected single prints and tenprint cards for comparison. The one-to-one section contained twelve pairs of single prints (Q1-Q12). Participants were asked to determine if the two collected prints within each pair originated from a single source. The ten-to-ten section contained eight questioned tenprint cards (Q13-Q20) and a pool of eight standard tenprint cards (A-H). Participants were asked to compare each questioned card to each standard card and determine if any pairing shared a common source. (Refer to the Manufacturer's Information for preparation details.)

Of the 48 responding participants, 47 (97.9%) reported the expected responses for all twelve single-print pairs and eight tenprint comparisons. One participant reported no common source between the questioned tenprint cards and any of the standard tenprint cards for the three items where a tenprint common source was expected (Q13, Q18, and Q19).

Single Print Comparisons

Does each pair of the following collected fingerprints originate from the same source?

TABLE 1 - Item Q1

WebCode	Match	WebCode	Match
2HEBGD	No	BVE449	No
3QLEYW	No	CTLFEL	No
49KPNK	No	ELU6Z8	No
4AYEPC	No	EWEB6T	No
4DXPLC	No	F22LLZ	No
4NZQLB	No	F3FWHJ	No
4U2AEU	No	F6NZJQ	No
4ZAM3K	No	FQ3PN6	No
883UJY	No	H83GH6	No
93MQ4D	No	HN9MQF	No
96QG88	No	LULVM2	No
99DV6X	No	QLDWX8	No
9F4QRQ	No	QURY2M	No
9F99PP	No	RAUVXR	No
9KGJNB	No	RBR6TU	No
9NLZFM	No	REPPVT	No
9ZF7FC	No	RLBH8T	No
B8MUZP	No	RT9EN4	No
BBL6VN	No	UQYXHD	No
BFM4J6	No	VYNYLZ	No

TABLE 1 - Item Q1

WebCode	Match	WebCode	Match
WBTUZZ	No		
WEVCF3	No		
X339UN	No		
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q1		Total Participants: 48
	<u>Match</u>	<u>Total</u>

Yes	0
No	48
Unable To Determine	0

TABLE 1 - Item Q2

WebCode	Match	WebCode	Match
2HEBGD	No	ELU6Z8	No
3QLEYW	No	EWEB6T	No
49KPNK	No	F22LLZ	No
4AYEPC	No	F3FWHJ	No
4DXPLC	No	F6NZJQ	No
4NZQLB	No	FQ3PN6	No
4U2AEU	No	H83GH6	No
4ZAM3K	No	HN9MQF	No
883UJY	No	LULVM2	No
93MQ4D	No	QLDWX8	No
96QG88	No	QURY2M	No
99DV6X	No	RAUVXR	No
9F4QRQ	No	RBR6TU	No
9F99PP	No	REPPVT	No
9KGJNB	No	RLBH8T	No
9NLZFM	No	RT9EN4	No
9ZF7FC	No	UQYXHD	No
B8MUZP	No	VYNYLZ	No
BBL6VN	No	WBTUZZ	No
BFM4J6	No	WEVCF3	No
BVE449	No	X339UN	No
CTLFEL	No		

TABLE 1 - Item Q2

WebCode	Match	WebCode	Match
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q2		Total Participants: 48
	<u>Match</u>	<u>Total</u>

Yes	0
No	48
Unable To Determine	0

TABLE 1 - Item Q3

WebCode	Match	WebCode	Match
2HEBGD	Yes	ELU6Z8	Yes
3QLEYW	Yes	EWEB6T	Yes
49KPNK	Yes	F22LLZ	Yes
4AYEPC	Yes	F3FWHJ	Yes
4DXPLC	Yes	F6NZJQ	Yes
4NZQLB	Yes	FQ3PN6	Yes
4U2AEU	Yes	H83GH6	Yes
4ZAM3K	Yes	HN9MQF	Yes
883UJY	Yes	LULVM2	Yes
93MQ4D	Yes	QLDWX8	Yes
96QG88	Yes	QURY2M	Yes
99DV6X	Yes	RAUVXR	Yes
9F4QRQ	Yes	RBR6TU	Yes
9F99PP	Yes	REPPVT	Yes
9KGJNB	Yes	RLBH8T	Yes
9NLZFM	Yes	RT9EN4	Yes
9ZF7FC	Yes	UQYXHD	Yes
B8MUZP	Yes	VYNYLZ	Yes
BBL6VN	Yes	WBTUZZ	Yes
BFM4J6	Yes	WEVCF3	Yes
BVE449	Yes	X339UN	Yes
CTLFEL	Yes		

TABLE 1 - Item Q3

WebCode	Match	WebCode	Match
XMLBNM	Yes		
XRFE CZ	Yes		
XWCT6G	Yes		
Y48B29	Yes		
YHKVAW	Yes		

Response Summary - Q3		Total Participants: 48
	<u>Match</u>	<u>Total</u>

	Yes	48
	No	0
	Unable To Determine	0

TABLE 1 - Item Q4

WebCode	Match	WebCode	Match
2HEBGD	No	ELU6Z8	No
3QLEYW	No	EWEB6T	No
49KPNK	No	F22LLZ	No
4AYEPC	No	F3FWHJ	No
4DXPLC	No	F6NZJQ	No
4NZQLB	No	FQ3PN6	No
4U2AEU	No	H83GH6	No
4ZAM3K	No	HN9MQF	No
883UJY	No	LULVM2	No
93MQ4D	No	QLDWX8	No
96QG88	No	QURY2M	No
99DV6X	No	RAUVXR	No
9F4QRQ	No	RBR6TU	No
9F99PP	No	REPPVT	No
9KGJNB	No	RLBH8T	No
9NLZFM	No	RT9EN4	No
9ZF7FC	No	UQYXHD	No
B8MUZP	No	VYNYLZ	No
BBL6VN	No	WBTUZZ	No
BFM4J6	No	WEVCF3	No
BVE449	No	X339UN	No
CTLFEL	No		

TABLE 1 - Item Q4

WebCode	Match	WebCode	Match
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q4		Total Participants: 48
	<u>Match</u>	<u>Total</u>

Yes	0
No	48
Unable To Determine	0

TABLE 1 - Item Q5

WebCode	Match	WebCode	Match
2HEBGD	No	ELU6Z8	No
3QLEYW	No	EWEB6T	No
49KPNK	No	F22LLZ	No
4AYEPC	No	F3FWHJ	No
4DXPLC	No	F6NZJQ	No
4NZQLB	No	FQ3PN6	No
4U2AEU	No	H83GH6	No
4ZAM3K	No	HN9MQF	No
883UJY	No	LULVM2	No
93MQ4D	No	QLDWX8	No
96QG88	No	QURY2M	No
99DV6X	No	RAUVXR	No
9F4QRQ	No	RBR6TU	No
9F99PP	No	REPPVT	No
9KGJNB	No	RLBH8T	No
9NLZFM	No	RT9EN4	No
9ZF7FC	No	UQYXHD	No
B8MUZP	No	VYNYLZ	No
BBL6VN	No	WBTUZZ	No
BFM4J6	No	WEVCF3	No
BVE449	No	X339UN	No
CTLFEL	No		

TABLE 1 - Item Q5

WebCode	Match	WebCode	Match
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q5		Total Participants: 48
	<u>Match</u>	<u>Total</u>

Yes	0
No	48
Unable To Determine	0

TABLE 1 - Item Q6

WebCode	Match	WebCode	Match
2HEBGD	No	ELU6Z8	No
3QLEYW	No	EWEB6T	No
49KPNK	No	F22LLZ	No
4AYEPC	No	F3FWHJ	No
4DXPLC	No	F6NZJQ	No
4NZQLB	No	FQ3PN6	No
4U2AEU	No	H83GH6	No
4ZAM3K	No	HN9MQF	No
883UJY	No	LULVM2	No
93MQ4D	No	QLDWX8	No
96QG88	No	QURY2M	No
99DV6X	No	RAUVXR	No
9F4QRQ	No	RBR6TU	No
9F99PP	No	REPPVT	No
9KGJNB	No	RLBH8T	No
9NLZFM	No	RT9EN4	No
9ZF7FC	No	UQYXHD	No
B8MUZP	No	VYNYLZ	No
BBL6VN	No	WBTUZL	No
BFM4J6	No	WEVCF3	No
BVE449	No	X339UN	No
CTLFEL	No		

TABLE 1 - Item Q6

WebCode	Match	WebCode	Match
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q6		Total Participants: 48
<u>Match</u>	<u>Total</u>	

Yes	0
No	48
Unable To Determine	0

TABLE 1 - Item Q7

WebCode	Match	WebCode	Match
2HEBGD	Yes	ELU6Z8	Yes
3QLEYW	Yes	EWEB6T	Yes
49KPNK	Yes	F22LLZ	Yes
4AYEPC	Yes	F3FWHJ	Yes
4DXPLC	Yes	F6NZJQ	Yes
4NZQLB	Yes	FQ3PN6	Yes
4U2AEU	Yes	H83GH6	Yes
4ZAM3K	Yes	HN9MQF	Yes
883UJY	Yes	LULVM2	Yes
93MQ4D	Yes	QLDWX8	Yes
96QG88	Yes	QURY2M	Yes
99DV6X	Yes	RAUVXR	Yes
9F4QRQ	Yes	RBR6TU	Yes
9F99PP	Yes	REPPVT	Yes
9KGJNB	Yes	RLBH8T	Yes
9NLZFM	Yes	RT9EN4	Yes
9ZF7FC	Yes	UQYXHD	Yes
B8MUZP	Yes	VYNYLZ	Yes
BBL6VN	Yes	WBTUZZ	Yes
BFM4J6	Yes	WEVCF3	Yes
BVE449	Yes	X339UN	Yes
CTLFEL	Yes		

TABLE 1 - Item Q7

WebCode	Match	WebCode	Match
XMLBNM	Yes		
XRFE CZ	Yes		
XWCT6G	Yes		
Y48B29	Yes		
YHKVAW	Yes		

Response Summary - Q7		Total Participants: 48
<u>Match</u>	<u>Total</u>	

Yes	48
No	0
Unable To Determine	0

TABLE 1 - Item Q8

WebCode	Match	WebCode	Match
2HEBGD	No	ELU6Z8	No
3QLEYW	No	EWEB6T	No
49KPNK	No	F22LLZ	No
4AYEPC	No	F3FWHJ	No
4DXPLC	No	F6NZJQ	No
4NZQLB	No	FQ3PN6	No
4U2AEU	No	H83GH6	No
4ZAM3K	No	HN9MQF	No
883UJY	No	LULVM2	No
93MQ4D	No	QLDWX8	No
96QG88	No	QURY2M	No
99DV6X	No	RAUVXR	No
9F4QRQ	No	RBR6TU	No
9F99PP	No	REPPVT	No
9KGJNB	No	RLBH8T	No
9NLZFM	No	RT9EN4	No
9ZF7FC	No	UQYXHD	No
B8MUZP	No	VYNYLZ	No
BBL6VN	No	WBTUZL	No
BFM4J6	No	WEVCF3	No
BVE449	No	X339UN	No
CTLFEL	No		

TABLE 1 - Item Q8

WebCode	Match	WebCode	Match
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q8		Total Participants: 48
	<u>Match</u>	<u>Total</u>

Yes	0
No	48
Unable To Determine	0

TABLE 1 - Item Q9

WebCode	Match	WebCode	Match
2HEBGD	No	ELU6Z8	No
3QLEYW	No	EWEB6T	No
49KPNK	No	F22LLZ	No
4AYEPC	No	F3FWHJ	No
4DXPLC	No	F6NZJQ	No
4NZQLB	No	FQ3PN6	No
4U2AEU	No	H83GH6	No
4ZAM3K	No	HN9MQF	No
883UJY	No	LULVM2	No
93MQ4D	No	QLDWX8	No
96QG88	No	QURY2M	No
99DV6X	No	RAUVXR	No
9F4QRQ	No	RBR6TU	No
9F99PP	No	REPPVT	No
9KGJNB	No	RLBH8T	No
9NLZFM	No	RT9EN4	No
9ZF7FC	No	UQYXHD	No
B8MUZP	No	VYNYLZ	No
BBL6VN	No	WBTUZZ	No
BFM4J6	No	WEVCF3	No
BVE449	No	X339UN	No
CTLFEL	No		

TABLE 1 - Item Q9

WebCode	Match	WebCode	Match
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q9		Total Participants: 48
	<u>Match</u>	<u>Total</u>

Yes	0
No	48
Unable To Determine	0

TABLE 1 - Item Q10

WebCode	Match	WebCode	Match
2HEBGD	Yes	ELU6Z8	Yes
3QLEYW	Yes	EWEB6T	Yes
49KPNK	Yes	F22LLZ	Yes
4AYEPC	Yes	F3FWHJ	Yes
4DXPLC	Yes	F6NZJQ	Yes
4NZQLB	Yes	FQ3PN6	Yes
4U2AEU	Yes	H83GH6	Yes
4ZAM3K	Yes	HN9MQF	Yes
883UJY	Yes	LULVM2	Yes
93MQ4D	Yes	QLDWX8	Yes
96QG88	Yes	QURY2M	Yes
99DV6X	Yes	RAUVXR	Yes
9F4QRQ	Yes	RBR6TU	Yes
9F99PP	Yes	REPPVT	Yes
9KGJNB	Yes	RLBH8T	Yes
9NLZFM	Yes	RT9EN4	Yes
9ZF7FC	Yes	UQYXHD	Yes
B8MUZP	Yes	VYNYLZ	Yes
BBL6VN	Yes	WBTUZZ	Yes
BFM4J6	Yes	WEVCF3	Yes
BVE449	Yes	X339UN	Yes
CTLFEL	Yes		

TABLE 1 - Item Q10

WebCode	Match	WebCode	Match
XMLBNM	Yes		
XRFE CZ	Yes		
XWCT6G	Yes		
Y48B29	Yes		
YHKVAW	Yes		

Response Summary - Q10		Total Participants: 48
<u>Match</u>	<u>Total</u>	

Yes	48
No	0
Unable To Determine	0

TABLE 1 - Item Q11

WebCode	Match	WebCode	Match
2HEBGD	No	ELU6Z8	No
3QLEYW	No	EWEB6T	No
49KPNK	No	F22LLZ	No
4AYEPC	No	F3FWHJ	No
4DXPLC	No	F6NZJQ	No
4NZQLB	No	FQ3PN6	No
4U2AEU	No	H83GH6	No
4ZAM3K	No	HN9MQF	No
883UJY	No	LULVM2	No
93MQ4D	No	QLDWX8	No
96QG88	No	QURY2M	No
99DV6X	No	RAUVXR	No
9F4QRQ	No	RBR6TU	No
9F99PP	No	REPPVT	No
9KGJNB	No	RLBH8T	No
9NLZFM	No	RT9EN4	No
9ZF7FC	No	UQYXHD	No
B8MUZP	No	VYNYLZ	No
BBL6VN	No	WBTUZZ	No
BFM4J6	No	WEVCF3	No
BVE449	No	X339UN	No
CTLFEL	No		

TABLE 1 - Item Q11

WebCode	Match	WebCode	Match
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q11		Total Participants: 48
<u>Match</u>	<u>Total</u>	

Yes	0
No	48
Unable To Determine	0

TABLE 1 - Item Q12

WebCode	Match	WebCode	Match
2HEBGD	No	ELU6Z8	No
3QLEYW	No	EWEB6T	No
49KPNK	No	F22LLZ	No
4AYEPC	No	F3FWHJ	No
4DXPLC	No	F6NZJQ	No
4NZQLB	No	FQ3PN6	No
4U2AEU	No	H83GH6	No
4ZAM3K	No	HN9MQF	No
883UJY	No	LULVM2	No
93MQ4D	No	QLDWX8	No
96QG88	No	QURY2M	No
99DV6X	No	RAUVXR	No
9F4QRQ	No	RBR6TU	No
9F99PP	No	REPPVT	No
9KGJNB	No	RLBH8T	No
9NLZFM	No	RT9EN4	No
9ZF7FC	No	UQYXHD	No
B8MUZP	No	VYNYLZ	No
BBL6VN	No	WBTUZZ	No
BFM4J6	No	WEVCF3	No
BVE449	No	X339UN	No
CTLFEL	No		

TABLE 1 - Item Q12

WebCode	Match	WebCode	Match
XMLBNM	No		
XRFE CZ	No		
XWCT6G	No		
Y48B29	No		
YHKVAW	No		

Response Summary - Q12		Total Participants: 48
<u>Match</u>	<u>Total</u>	

Yes	0
No	48
Unable To Determine	0

Tenprint Comparisons

Do any of the Questioned tenprint cards (Q13-Q20) share a common source with any of the standard tenprint cards (A-H)?

TABLE 2 - Item Q13

WebCode	Match	Source	WebCode	Match	Source
2HEBGD	Yes	G	BBL6VN	Yes	G
3QLEYW	Yes	G	BFM4J6	Yes	G
49KPNK	Yes	G	BVE449	Yes	G
4AYEPC	Yes	G	CTLFEL	Yes	G
4DXPLC	Yes	G	ELU6Z8	Yes	G
4NZQLB	Yes	G	EWEB6T	Yes	G
4U2AEU	Yes	G	F22LLZ	Yes	G
4ZAM3K	Yes	G	F3FWHJ	Yes	G
883UJY	No		F6NZJQ	Yes	G
93MQ4D	Yes	G	FQ3PN6	Yes	G
96QG88	Yes	G	H83GH6	Yes	G
99DV6X	Yes	G	HN9MQF	Yes	G
9F4QRQ	Yes	G	LULVM2	Yes	G
9F99PP	Yes	G	QLDWX8	Yes	G
9KGJNB	Yes	G	QURY2M	Yes	G
9NLZFM	Yes	G	RAUVXR	Yes	G
9ZF7FC	Yes	G	RBR6TU	Yes	G
B8MUZP	Yes	G	REPPVT	Yes	G

TABLE 2 - Item Q13

WebCode	Match	Source	WebCode	Match	Source
RLBH8T	Yes	G			
RT9EN4	Yes	G			
UQYXHD	Yes	G			
VYNYLZ	Yes	G			
WBTUZL	Yes	G			
WEVCF3	Yes	G			
X339UN	Yes	G			
XMLBNM	Yes	G			
XRFE CZ	Yes	G			
XWCT6G	Yes	G			
Y48B29	Yes	G			
YHKVAW	Yes	G			

Response Summary - Q13		Total Participants: 48
<u>Match</u>	<u>Total</u>	<u>Source</u>

Yes	47	G (47)
No	1	
Unable To Determine	0	

TABLE 2 - Item Q14

WebCode	Match	Source	WebCode	Match	Source
2HEBGD	No		BVE449	No	
3QLEYW	No		CTLFEL	No	
49KPNK	No		ELU6Z8	No	
4AYEPC	No		EWEB6T	No	
4DXPLC	No		F22LLZ	No	
4NZQLB	No		F3FWHJ	No	
4U2AEU	No		F6NZJQ	No	
4ZAM3K	No		FQ3PN6	No	
883UJY	No		H83GH6	No	
93MQ4D	No		HN9MQF	No	
96QG88	No		LULVM2	No	
99DV6X	No		QLDWX8	No	
9F4QRQ	No		QURY2M	No	
9F99PP	No		RAUVXR	No	
9KGJNB	No		RBR6TU	No	
9NLZFM	No		REPPVT	No	
9ZF7FC	No		RLBH8T	No	
B8MUZP	No		RT9EN4	No	
BBL6VN	No		UQYXHD	No	
BFM4J6	No		VYNYLZ	No	

TABLE 2 - Item Q14

WebCode	Match	Source	WebCode	Match	Source
WBTUZZ	No				
WEVCF3	No				
X339UN	No				
XMLBNM	No				
XRFEZ	No				
XWCT6G	No				
Y48B29	No				
YHKVAW	No				

Response Summary - Q14		Total Participants: 48	
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	0	(N/A for non-associations)
	No	48	
	Unable To Determine	0	

TABLE 2 - Item Q15

WebCode	Match	Source	WebCode	Match	Source
2HEBGD	No		BVE449	No	
3QLEYW	No		CTLFEL	No	
49KPNK	No		ELU6Z8	No	
4AYEPC	No		EWEB6T	No	
4DXPLC	No		F22LLZ	No	
4NZQLB	No		F3FWHJ	No	
4U2AEU	No		F6NZJQ	No	
4ZAM3K	No		FQ3PN6	No	
883UJY	No		H83GH6	No	
93MQ4D	No		HN9MQF	No	
96QG88	No		LULVM2	No	
99DV6X	No		QLDWX8	No	
9F4QRQ	No		QURY2M	No	
9F99PP	No		RAUVXR	No	
9KGJNB	No		RBR6TU	No	
9NLZFM	No		REPPVT	No	
9ZF7FC	No		RLBH8T	No	
B8MUZP	No		RT9EN4	No	
BBL6VN	No		UQYXHD	No	
BFM4J6	No		VYNYLZ	No	

TABLE 2 - Item Q15

WebCode	Match	Source	WebCode	Match	Source
WBTUZZ	No				
WEVCF3	No				
X339UN	No				
XMLBNM	No				
XRFEZ	No				
XWCT6G	No				
Y48B29	No				
YHKVAW	No				

Response Summary - Q15		Total Participants: 48	
<u>Match</u>	<u>Total</u>	<u>Source</u>	
Yes	0	(N/A for non-associations)	
No	48		
Unable To Determine	0		

TABLE 2 - Item Q16

WebCode	Match	Source	WebCode	Match	Source
2HEBGD	No		BVE449	No	
3QLEYW	No		CTLFEL	No	
49KPNK	No		ELU6Z8	No	
4AYEPC	No		EWEB6T	No	
4DXPLC	No		F22LLZ	No	
4NZQLB	No		F3FWHJ	No	
4U2AEU	No		F6NZJQ	No	
4ZAM3K	No		FQ3PN6	No	
883UJY	No		H83GH6	No	
93MQ4D	No		HN9MQF	No	
96QG88	No		LULVM2	No	
99DV6X	No		QLDWX8	No	
9F4QRQ	No		QURY2M	No	
9F99PP	No		RAUVXR	No	
9KGJNB	No		RBR6TU	No	
9NLZFM	No		REPPVT	No	
9ZF7FC	No		RLBH8T	No	
B8MUZP	No		RT9EN4	No	
BBL6VN	No		UQYXHD	No	
BFM4J6	No		VYNYLZ	No	

TABLE 2 - Item Q16

WebCode	Match	Source	WebCode	Match	Source
WBTUZZ	No				
WEVCF3	No				
X339UN	No				
XMLBNM	No				
XRFEZ	No				
XWCT6G	No				
Y48B29	No				
YHKVAW	No				

Response Summary - Q16		Total Participants: 48	
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	0	(N/A for non-associations)
	No	48	
	Unable To Determine	0	

TABLE 2 - Item Q17

WebCode	Match	Source	WebCode	Match	Source
2HEBGD	No		BVE449	No	
3QLEYW	No		CTLFEL	No	
49KPNK	No		ELU6Z8	No	
4AYEPC	No		EWEB6T	No	
4DXPLC	No		F22LLZ	No	
4NZQLB	No		F3FWHJ	No	
4U2AEU	No		F6NZJQ	No	
4ZAM3K	No		FQ3PN6	No	
883UJY	No		H83GH6	No	
93MQ4D	No		HN9MQF	No	
96QG88	No		LULVM2	No	
99DV6X	No		QLDWX8	No	
9F4QRQ	No		QURY2M	No	
9F99PP	No		RAUVXR	No	
9KGJNB	No		RBR6TU	No	
9NLZFM	No		REPPVT	No	
9ZF7FC	No		RLBH8T	No	
B8MUZP	No		RT9EN4	No	
BBL6VN	No		UQYXHD	No	
BFM4J6	No		VYNYLZ	No	

TABLE 2 - Item Q17

WebCode	Match	Source	WebCode	Match	Source
WBTUZZ	No				
WEVCF3	No				
X339UN	No				
XMLBNM	No				
XRFEZ	No				
XWCT6G	No				
Y48B29	No				
YHKVAW	No				

Response Summary - Q17		Total Participants: 48	
<u>Match</u>	<u>Total</u>	<u>Source</u>	
Yes	0	(N/A for non-associations)	
No	48		
Unable To Determine	0		

TABLE 2 - Item Q18

WebCode	Match	Source	WebCode	Match	Source
2HEBGD	Yes	C	BVE449	Yes	C
3QLEYW	Yes	C	CTLFEL	Yes	C
49KPNK	Yes	C	ELU6Z8	Yes	C
4AYEPC	Yes	C	EWEB6T	Yes	C
4DXPLC	Yes	C	F22LLZ	Yes	C
4NZQLB	Yes	C	F3FWHJ	Yes	C
4U2AEU	Yes	C	F6NZJQ	Yes	C
4ZAM3K	Yes	C	FQ3PN6	Yes	C
883UJY	No		H83GH6	Yes	C
93MQ4D	Yes	C	HN9MQF	Yes	C
96QG88	Yes	C	LULVM2	Yes	C
99DV6X	Yes	C	QLDWX8	Yes	C
9F4QRQ	Yes	C	QURY2M	Yes	C
9F99PP	Yes	C	RAUVXR	Yes	C
9KGJNB	Yes	C	RBR6TU	Yes	C
9NLZFM	Yes	C	REPPVT	Yes	C
9ZF7FC	Yes	C	RLBH8T	Yes	C
B8MUZP	Yes	C	RT9EN4	Yes	C
BBL6VN	Yes	C	UQYXHD	Yes	C
BFM4J6	Yes	C	VYNYLZ	Yes	C

TABLE 2 - Item Q18

WebCode	Match	Source	WebCode	Match	Source
WBTUZZ	Yes	C			
WEVCF3	Yes	C			
X339UN	Yes	C			
XMLBNM	Yes	C			
XRFEZ	Yes	C			
XWCT6G	Yes	C			
Y48B29	Yes	C			
YHKVAW	Yes	C			

Response Summary - Q18		Total Participants: 48	
<u>Match</u>	<u>Total</u>	<u>Source</u>	
Yes	47	C (47)	
No	1		
Unable To Determine	0		

TABLE 2 - Item Q19

WebCode	Match	Source	WebCode	Match	Source
2HEBGD	Yes	B	BVE449	Yes	B
3QLEYW	Yes	B	CTLFEL	Yes	B
49KPNK	Yes	B	ELU6Z8	Yes	B
4AYEPC	Yes	B	EWEB6T	Yes	B
4DXPLC	Yes	B	F22LLZ	Yes	B
4NZQLB	Yes	B	F3FWHJ	Yes	B
4U2AEU	Yes	B	F6NZJQ	Yes	B
4ZAM3K	Yes	B	FQ3PN6	Yes	B
883UJY	No		H83GH6	Yes	B
93MQ4D	Yes	B	HN9MQF	Yes	B
96QG88	Yes	B	LULVM2	Yes	B
99DV6X	Yes	B	QLDWX8	Yes	B
9F4QRQ	Yes	B	QURY2M	Yes	B
9F99PP	Yes	B	RAUVXR	Yes	B
9KGJNB	Yes	B	RBR6TU	Yes	B
9NLZFM	Yes	B	REPPVT	Yes	B
9ZF7FC	Yes	B	RLBH8T	Yes	B
B8MUZP	Yes	B	RT9EN4	Yes	B
BBL6VN	Yes	B	UQYXHD	Yes	B
BFM4J6	Yes	B	VYNYLZ	Yes	B

TABLE 2 - Item Q19

WebCode	Match	Source	WebCode	Match	Source
WBTUZZ	Yes	B			
WEVCF3	Yes	B			
X339UN	Yes	B			
XMLBNM	Yes	B			
XRFEZ	Yes	B			
XWCT6G	Yes	B			
Y48B29	Yes	B			
YHKVAW	Yes	B			

Response Summary - Q19		Total Participants: 48	
<u>Match</u>	<u>Total</u>	<u>Source</u>	

Yes	47	B (47)
No	1	
Unable To Determine	0	

TABLE 2 - Item Q20

WebCode	Match	Source	WebCode	Match	Source
2HEBGD	No		BVE449	No	
3QLEYW	No		CTLFEL	No	
49KPNK	No		ELU6Z8	No	
4AYEPC	No		EWEB6T	No	
4DXPLC	No		F22LLZ	No	
4NZQLB	No		F3FWHJ	No	
4U2AEU	No		F6NZJQ	No	
4ZAM3K	No		FQ3PN6	No	
883UJY	No		H83GH6	No	
93MQ4D	No		HN9MQF	No	
96QG88	No		LULVM2	No	
99DV6X	No		QLDWX8	No	
9F4QRQ	No		QURY2M	No	
9F99PP	No		RAUVXR	No	
9KGJNB	No		RBR6TU	No	
9NLZFM	No		REPPVT	No	
9ZF7FC	No		RLBH8T	No	
B8MUZP	No		RT9EN4	No	
BBL6VN	No		UQYXHD	No	
BFM4J6	No		VYNYLZ	No	

TABLE 2 - Item Q20

WebCode	Match	Source	WebCode	Match	Source
WBTUZZ	No				
WEVCF3	No				
X339UN	No				
XMLBNM	No				
XRFEZ	No				
XWCT6G	No				
Y48B29	No				
YHKVAW	No				

Response Summary - Q20		Total Participants: 48	
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	0	(N/A for non-associations)
	No	48	
	Unable To Determine	0	

Additional Comments

TABLE 3

WebCode	Additional Comments
F6NZJQ	IN THE EXERCISE THE CODING SEEMS CONFUSED SINCE THE ITEMS BEGIN WITH "Q" AND THE ANSWER SHEET APPEARS CODINGS WITH THE LETTER "P".

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 22-5141: Tenprint Examination

DATA MUST BE SUBMITTED BY **July 5, 2022, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: 3972PE

Scenario:

The following prints, including single-print card pairs and tenprint cards, are in need of manual comparison. For the single prints, please compare the like-numbered Questioned and Standard print pairs to determine if they originate from the same source. For the tenprint cards, please compare each Questioned item to the pool of Standard items to determine if any of the Questioned tenprint cards share a common source with any of the Standard tenprint cards.

For the single print pairs, open the like-numbered Questioned and Standard files and compare the two prints.

For the tenprint cards, open a Questioned file and compare it to each Standard file. If a match is found, indicate the letter of the Standard card that was identified as sharing a common source with the Questioned card.

The files within the 'TIF' and 'JPG' folders are the same items, just provided in different formats.

For this test, you are not limited to conducting only on-screen comparisons and may employ any other method you wish. However, because of differences in printing technology, CTS cannot guarantee the quality of images you print from the digital media.

Items Submitted (Sample Pack TPE):

Items Q1-Q12: Twelve single-print card pairs, in TIF and JPG formats.

Items Q13-Q20: Eight questioned tenprint cards, in TIF and JPG formats.

Items A-H: Eight standard tenprint cards for comparison to Q13-Q20, in TIF and JPG formats.

To verify a complete and accurate download, the hash value for the downloaded .ZIP file is as follows:

22-5141_Tenprint Examination.zip MD5 hash value: 2f20ba72b0ff429f352a1be73cbcc289

22-5141_Tenprint Examination.zip SHA1 hash value: 5cd0e433076ded2a7d356126e1923fbef06ad00d

1.) Does each pair of the following collected single-print cards originate from the same source?

*If "Unable to Determine" is selected, please explain your reasoning in the Additional Comments.

	Yes	No	Unable to Determine*
Q1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Yes	No	Unable to Determine*
Q5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Yes	No	Unable to Determine*
Q9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2.) Do any of the Questioned tenprint cards (Q13-Q20) share a common source with any of the Standard tenprint cards (A-H)? If so, please identify the letter of the Standard card with which a common source is shared.

*If "Unable to Determine" is selected, please explain your reasoning in the Additional Comments.

	Yes	No	Unable to Determine*
Q13	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q14	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q15	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q16	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>

	Yes	No	Unable to Determine*
Q17	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q18	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q19	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q20	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>

3.) Additional Comments

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

RELEASE OF DATA TO ACCREDITATION BODIES

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

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

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

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

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

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

A2LA Certificate No.

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

Authorized Contact Person and Title

Laboratory Name

Location (City/State)