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# Latent Print Examination Test No. 23-5171/5 Summary Report

Each sample set contained one of the following: digitally produced photographs (23-5171) or downloadable digital images (23-5175) of eleven latent prints and four sets of known fingerprints and palm prints. Participants were asked to compare these items and report their findings. Data was returned from 345 participants: 169 for 23-5171, and 176 for 23-5175 and are compiled into the following tables:

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Appendix: Data Sheet

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.

## **Manufacturer's Information**

Each sample set contained photographs, in either a physically printed format or digitally downloadable, consisting of known fingerprints and palm prints of four individuals and eleven latent "crime scene prints." Nine of the eleven latent prints were made by individuals for whom inked prints were provided; two were from an individual for whom inked prints were not provided.

SAMPLE PREPARATION: All inked known fingerprints and powder-dusted latent prints were scanned directly into image editing software. Images were assembled onto test templates, and background noise of each latent print was digitally reduced. For the physical photographs, the latent prints were provided in 1X and 2X magnification.

VERIFICATION: Predistribution results were consistent with each other and the expected results with the exception of print Q9. For print Q9, one predistribution participant reported a response of "Not Identified." After further review, it was decided that Q9 would remain in the test.

SAMPLE SET ASSEMBLY: Once verification was complete and sample preparation was done, each photo set was packaged and sealed. Digitally downloadable material was zipped and uploaded to the CTS Portal.

Latent No.	Print Source
Q1	Not Provided, - (NI)
Q2	Item A, Right Index (A, RI)
Q3	Not Provided, - (NI)
Q4	Item B, Left Ring (B, LR)
Q5	Item C, Left Index (C, LI)
Q6	Item D, Left Thumb (D, LT)
Q7	Item D, Left Palm (D, LP)
Q8	Item B, Right Middle (B, RM)
Q9	Item B, Right Thumb (B, RT)
Q10	Item C, Right Index (C, RI)
Q11	Item A, Left Index (A, LI)

# **Summary Comments**

This test was designed to allow participants to assess their proficiency in the identification of latent finger and palm prints. Nine latent prints (Q2 and Q4-Q11) were made by one of the four individuals for whom inked prints were provided (Items A-D). Two latent prints (Q1 and Q3) were from an individual for whom inked prints were not provided (Refer to the Manufacturer's Information for preparation details).

Of the 345 responding participants, 314 (91.0%) reported the expected nine identifications and two non-identifications (NI). In the establishing of the consensus, inconclusive (INC) results are included with non-identifications. There were 31 participants who reported inconsistent results for one or more of the latent prints; however, the necessary consensus threshold was achieved for each individual print.

The latent print with the most responses differing from the consensus was Q5; 14 participants reported "NI" for this item, 11 participants reported "INC", and two participants identified the print to a different individual.

# **Latent Print Identifications**

TABLE 1

WebCode-	Items Q1-Q4					Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11
22Q4CD- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
28KU2X- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
28NC9A- 5171	INC	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
29CTFW- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
2FCCF7- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
2GC3V2- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
2H2GDJ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
32CN8D- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3389VC- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
33HBGB- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
34VP3Y- 5175	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
398VKQ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3BV93A- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3EG7JC- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3G6K2V- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3K6VWV- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3KXT3G- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3LXJHC- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3PD2QF- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
3PYTLL- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI

TABLE 1

	Items Q1-Q4 Items Q5-Q8						05.00	00 keyes 00 011					
WebCode-	Items Q1-Q4			0.5			00	Items Q9-Q11					
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11		
47VKY8- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4AZ37F- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4C9BCE- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4DWRK2- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4EDNC2- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4HCY92- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4JKJPA- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4JPMR2- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4LVCTN- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4M9NP9- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4MLFGP- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4PDC7J- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4VGHJ2- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4Y33TB- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
4ZWQ8Z- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
67FBUD- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
6DTMM4- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
6GHQL3- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
6GXA4F- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
6H78TP- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		

TABLE 1

WebCode-		<u>Items</u>	Q1-Q4			Items	Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
6H9UB4- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
6HLNLX- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
6HTKBB- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
6P6YT8- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
6QMY23- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
6XYYEQ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
6YRXKC- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7AAM9A- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7CG8QH- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7D93FC- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7GVP9Y- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7K9P6Q- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7QGVYC- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7RRN2Q- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7UJRQR- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
7VCPWD- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
873XU7- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8A8LD3- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8AR3T6- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8BXP33- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

TABLE 1

					IA	DLL I						
WebCode-		Items	Q1-Q4			Items	Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
8JGTFW- 5175	INC	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8L2XQF- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8NQ3PE- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8PJ673- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8V9FND- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8Y9NTM- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
8YB9N4- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
96RDP3- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9BYV84- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9EWFUZ- 5175	NI	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9HCTT2- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9LWVK8- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9N38D3- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9N6TAH- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9R62DT- 5175	NI	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9RJQG6- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9RM6U7- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9TF3ZR- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9TUEWB- 5175	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9U87NR- 5175	NI	A, RI	A, RR	B, LR	C, LI	D, LT	D, LP	B, RM	NI	C, RI	A, LI	
9UV6B7- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

TABLE 1

WebCode-	Items Q1-Q4					Items	Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
9V4DH6- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
9WWBNQ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
A2NTL3- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
A3GV3Q- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
A67Z2P- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ADWPF6- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ALBL4C- 5175	INC	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
AM3HT7- 5175	NI	A, RI	ΝΙ	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
AQZ9Q6- 5171	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ATXA8U- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
AZWU86- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
B22Q9Y- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
B4TUWZ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
B6HBUE- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
BJZ4JL- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
BLR3WJ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
BMJ2BH- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
BTQPMX- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
BTU8TA- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
BUHKBR- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

TABLE 1

	I/OLL I												
WebCode-		Items	Q1-Q4			Items		Items Q9-Q11					
Test	Q1	Q2	Q3	<b>Q4</b>	Q5	Q6	Q7	Q8	Q9	Q10	Q11		
C2ZBGK- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
C3QE7K- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
C462G8- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
C6WZV7- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
C777UT- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
C79RQ9- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CE4URJ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CFDTZ8- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CFVXGK- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CGNVM7- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CJK3FJ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CKB76K- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CL44B7- 5175	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CP63UB- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CPHW8Q- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CQVGZZ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CTKUHH- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CTMFEY- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CWJ4TK- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CWMQAY- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		
CXDUYY- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI		

TABLE 1

	17 (52)											
WebCode-			Q1-Q4				Q5-Q8			ms Q9-		
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
D2UM6Y- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
D387DV- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
D3TJ39- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
DJDECB- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
DM97HL- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
DUEV2F- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
DUXLBZ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
DW3E3D- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
DWYT8X- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
E6T8WP- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
EA3DQA- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
EAYUJY- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ED4AHP- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
EEW8NB- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
EWEFGY- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
EY4JFX- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
EZH2GH- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
F346NF- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
F4RJ8X- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
F97GEK- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
					I							

TABLE 1

					IA	DLL I						
WebCode-		Items	Q1-Q4			Items	Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
FEVRWW- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FHTHUV- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FHVZ27- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FQNFL4- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FTA2ER- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FTDKK3- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FTT46Z- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FV2X4L- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FXB2XW- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
FYEXZC- 5175	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
G3UTEN- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
G3XBKZ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
G6XNXR- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
G7WLGZ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
G8PJLL- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
G92E7R- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
GBMZYF- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
GBQJ6Q- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
GDFWNA- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
GDUHXB- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
GP6TML- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

TABLE 1

	17 10 11													
WebCode-			Items Q1-Q4 Items Q5-Q8								Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11			
GPCVGZ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
H6GPLF- 5175	NI	A, RI	ΝΙ	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
H7AFRU- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HACK6E- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HB6JBZ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HBLQH3- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HJZCR7- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HKBEFQ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HKR9FZ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HP69DR- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HTLF2R- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HUHTKD- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HVR6YU- 5175	NI	A, RI	ΝΙ	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
HXG883- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
J46ARE- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
J4LLBJ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
J6BWYQ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
J6EE73- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
J6VDGE- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
J7NBMZ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI			
					I									

TABLE 1

					17 (	DLL I						
WebCode-		Items Q1-Q4 Items Q5-Q8							Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
JCC7EW- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
JEXYZY- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
JEYQFU- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
JLM9ZX- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
JMF76H- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
JQQE7M- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
K29DE4- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
K4FH8R- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
K6WMWH- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
KMB7HN- 5171	NI	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
KMRDQQ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
KZFF9J- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
KZXBR7- 5175	NI	A, RI	ΝΙ	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
L4NADE- 5171	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
L4QUAU- 5175	INC	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LBFA38- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LD3U46- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RI	C, RI	A, LI	
LDZ98P- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LDZBWU- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LEFLX8- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LF7PM9- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

TABLE 1

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WebCode-			Q1-Q4				Q5-Q8			ms Q9-		
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
LGYMTU- 5171	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LHCACU- 5175	NI	A, RI	ΝΙ	B, LR	C, LI	D, LT	C, LP	B, RM	B, RT	C, RI	A, LI	
LJ7XQH- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LJN28V- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LKF6WW- 5175	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LPTQ3H- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
LXQFL8- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
M3DKWM- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
M7WLTV- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MBQGY9- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MBT4FM- 5175	NI	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MFM6FF- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MFYW9W- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MKVLP6- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MQZKZU- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MRV8EJ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MTB8X9- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
MZBMLU- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
NDAXLL- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
NE7J3J- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
					I							

TABLE 1

					17 \	DLL I					
WebCode-		Items	Q1-Q4			Items	Q5-Q8		lte	ms Q9-	Q11
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11
NME62L- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
NND2YW- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
NRRX7J- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
PBGE4K- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
PPJ6PP- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
PQC4VB- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
Q4C7TB- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
Q4ERPQ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QAF67L- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QC89VL- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QD76TW- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QEW9GW- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QFCMQR- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QG4JFL- 5171	INC	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QHWLWA- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QLYHNP- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QN3BF3- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QPW4BL- 5171	INC	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QU9RCH- 5171	NI	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QUPZ3X- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
QV3ENL- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI

TABLE 1

WebCode-		lte <u>ms</u>	Q1-Q4			Items	Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
QVMDLK- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
R4W3YJ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
R7ZXHL- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
R8Q28M- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
RMQT24- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
RPATEY- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
RPGV9D- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
RPRYDN- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
RPWDQP- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
RREK7C- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
RRJXRM- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
RXJGRX- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
TM2ZYQ- 5175	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
TMHFQD- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
TPACE8- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
TQKAQ3- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
TWRK44- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
TYFYLL- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
U3CZ9L- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
U3TAZ2- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

TABLE 1

WebCode-		Items	Q1-Q4			Items	Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
U6DBUN- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
U6EYJE- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
U7TKTF- 5175	INC	A, RI	NI	B, LR	INC	D, LT	D, LP	B, LL	B, RT	C, RI	A, LI	
UGDRUQ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
UH293D- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
UH6VJR- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
UWKTNR- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
UWMKF9- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
UYCPDL- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
UYT2VR- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
UZK6KR- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
V43G6F- 5171	INC	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
V4FFQC- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
VBFP7G- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
VCXJ7Q- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
VD8NKF- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
VDNMVR- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
VFBJ4H- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
VG4GA4- 5171	INC	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
VG76QH- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

TABLE 1

		ltome	Q1-Q4			Itomo	Q5-Q8	Items Q9-Q11			
WebCode-	01				Q5	Q6		08			
Test VKQRRH-	<b>Q1</b> NI	Q2 A, RI	<b>Q3</b> NI	Q4 B, LR	NI	Q <sub>0</sub>	<b>Q7</b> D, LP	Q8 NI	Q9 NI	<b>Q10</b> C, RI	Q11
5171										_	
VLJPX4- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
VMBTL4- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
VPELEG- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
VPH4KT- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
VTEWAG- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
VW4WWT- 5175	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
VXFQHK- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
VY66Z3- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
VZM9GF- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
W3NGCD- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
W72GA6- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
W7RWXV- 5175	INC	A, RI	A, RM	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
W9TFN3- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
WCQW3H- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
WJ9A2G- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
WWWAU6- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
WXBXVW- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
WY3UKQ- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
WYYCDE- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI
X2NV3J- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI

TABLE 1

WebCode-		Items	Q1-Q4			Items	Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
X2NXRN- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
XAWKMA- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
XB98CB- 5171	NI	A, RI	NI	B, LR	C, INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
XETA4G- 5171	NI	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
XGFT6E- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
XPCN4X- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
XRWPYK- 5175	NI	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
XRXDNB- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
XZTBFJ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Y26CT7- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Y2JX6T- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Y64QGV- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Y6JA2T- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YAWU8E- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YBMXWE- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YF4FZH- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YFNWFK- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YGDBX3- 5171	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YMYH2T- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YRC49E- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

TABLE 1

WebCode-		Items Q1-Q4				Items	Q5-Q8		Items Q9-Q11			
Test	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	
YU2MXJ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YVRQMK- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
YWP467- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Z2XF7D- 5171	NI	A, RI	NI	B, LR	INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Z3RDCY- 5175	NI	A, RI	ΝΙ	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Z62HPM- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Z6HG2Y- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Z83N38- 5171	NI	A, RI	NI	B, LR	C, INC	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Z8HP6A- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Z8QMNL- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZBN9CH- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZEQ2C9- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZFXGJE- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZKEP8E- 5175	D, INC	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZL8MDY- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZPKFAJ- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZRCHYK- 5171	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZUJWMD- 5175	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
ZYR2FY- 5175	NI	A, RI	NI	B, LR	NI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	

Respons	e Sui	mma	ry							Pai	rticipants	: 345
	Q1	Q2	Q3	Q4	<b>Q</b> 5	Q6	Q7	Q8	Q9	Q10	Q11	
Consensus:	NI	A, RI	NI	B, LR	C, LI	D, LT	D, LP	B, RM	B, RT	C, RI	A, LI	
Number:	334	345	343	345	318	344	344	343	342	345	344	
Percent:	96.8%	100.0%	99.4%	100.0%	92.2%	99.7%	99.7%	99.4%	99.1%	100.0%	99.7%	
Not Identified (NI):		0		0	14	1	0	1	2	2	1	
Other Identifications:	1	0	2	0	2	0	1	1	1	0	0	
Inconclusive:	10	0	0	0	11	0	0	0	0	0	0	

# **Additional Comments**

## TABLE 2

WebCode- Test	Additional Comments
28NC9A- 5171	Q1 - Inconclusive due to the poor quality of the latent print. There is insufficient quantity and clarity of corresponding friction ridge skin features between two impressions (the latent print and the known print) such that the examiner is unable to identify or exclude the two impressions as originating from the same source. Now that Inconclusive is offered as a conclusion, I suggest changing Not Identified to Exclusion, to provide examiners with the three standard conclusions used in casework.
3PD2QF- 5171	Q4 - Rolled impression used. Q5 - Twisted mark with movement near core area
4Y33TB- 5171	La prueba fue realizada cumpliendo con los criterios descritos en la guía 2DC-GU-0020 "Confrontación Dactiloscópica", implementada en el [Laboratory.] [Requested translation was not provided by time of publication.]
8JGTFW- 5175	Q1 - Inconclusive to the Latent for all exemplars (A, B, C, and D). The latent print lacks a definitive anchor and reliable target groups (features), due to distortion (possible overlap and smudging). Q5 - Inconclusive to the Exemplar for exemplar C. Similarities documented with the LI, but need recent and fully recorded fingerprints to include the extreme tips and sides of the fingers for further comparison. Additional exemplars could indicate if there is a definitive scar present in the latent or if it is distortion due to overlapping ridge detail. Excluded to exemplars A, B, and D.
9EWFUZ- 5175	Regarding Inconclusive decision for Q5. Although there is strong support for a source ID to Item C, LI additional inked rolls would be requested from potential source. The location of several points visible on Q5 are not captured on the rolled or slap prints of the inked ten print card nor the inked, left palm card.
9U87NR- 5175	Q5 - LI (LP) Never worked with digital prints so I had to print out copies to do manual comparisons. Copies not very good but acceptable.
A3GV3Q- 5175	I did a comparative exam
ALBL4C- 5175	*Q1 - Inconclusive due to the quality of the latent print. Cannot exclude due to lack of clear core and/or delta (per agency exclusion policy).
BMJ2BH- 5175	Q5: Although I ultimately deemed this to be an identification, I would have liked to have seen additional known standards with fingertips in order to see the minutia that were not recorded in the provided knowns. The distortion at the core caused a discrepancy in ridge count from the core minutia to the minutia above it. I contemplated calling this inconclusive.
FTA2ER- 5175	Per our SOPs, Q1 is borderline sufficient for exclusionary purposes due to the distortion through the pattern area - an anchor must be recorded in order to exclude. The core and delta in this print are visible, but unclear. Also, the knowns for Item C #7 are lacking the tip area. I would have liked seeing a little more of the tip, especially on the left side of the finger for the comparison with Q5.
KMB7HN- 5171	Q5 has minutia in common with Item C, finger #7, the distortion in the latent print is making minutia points appear 1-2 ridges off from where they appear in known print in 2 areas of the impression.
L4QUAU- 5175	Q1 Inconclusive, distortion, heavy pressure and movement in the core/delta area of the print. Large field of ridges beneath the delta area, however the exemplars do not show great recording results in this area. The points visible are near the edge of the print which hold less value. Would need better exemplars to make a conclusion.
MBT4FM- 5175	Question #5 has distortion in areas that make ID uncertain. The features present are insufficient to make an ID, but may be possible with better exemplars.

## TABLE 2

WebCode- Test	Additional Comments
QEW9GW-	Q1 is the most discussed, some experts are not confident to exclude
5175 QG4JFL- 5171	Q1. The result for latent print Q1 was inconclusive due to the distortion in the latent print, pressure and movement.
QPW4BL- 5171	I marked up Q1 with green, yellow, and red minutiae points to indicate my level of confidence in them. Green was high confidence with clear minutiae, yellow was medium confidence with moderate clarity, and red was low confidence with low clarity. The core of Q1 was not as clear but I could see a general ridge flow (a right slant loop or a double loop whorl). I could not locate exactly where the delta was in Q1 due to smudging but could infer a possible general area from where the type lines started to diverge. Understanding where those general locations were, I could estimate my ridge counts from the delta area to the core. Most of the minutiae points found were located on the side and at the base of the finger. The base of the finger looked like there may be some distortions hence why I could not rely heavily on the minutiae found around there. There was also big dark smudge across the delta, moving on up to the side of the finger and towards the core. I called Q1 inconclusive to Individuals B (Specifically right little #5) and D (Specifically right little #5) due to quality of the latent impression. It was inconclusive based on the observed data not providing a sufficient degree of support for one proposition of the source of the latent print over the other.
QU9RCH- 5171	Q5- An Inconclusive decision is being made for Q5. There are dissimilarities and insufficient ridge detail in agreement to the latent print (Q5) and the known print (Individual C, Finger #7. Left Index).
UH293D- 5175	Q1-Not Identified selected as no option for Exclusion, which is appropriate for this laboratory. Q3-Not Identified selected as no option for Exclusion, which is appropriate for this laboratory.
V43G6F- 5171	Q1 - The results of the comparisons were inconclusive due to the low quality of the latent. There is insufficient quantity and clarity of corresponding friction ridge skin features between the latent and known prints.
V4FFQC- 5175	Between Item 5 and Person C, left Index, are some differences recognizable. Although those differences, we deside to identify the Item, because we explain the differences by a double tip of the Tracer.
VG4GA4- 5171	Q1: Finger possibly a right slant loop or double loop whorl. Level 1 detail: Level 1 Distinct. Ridge flow suggestive of a fingerprint (not palmprint). Right slant loop or double loop whorl. Delta and core area distorted and unclear specific locations within the print. The delta area general location is within the left, lower half of the print. The core area general location is within the right, middle of the print. Level 2 detail: Few of level 2 are distinct. Above and to the right side of the general area of the core there's open field ridges with one possible ridge end at the edge. The top left of the print a short ridge is present at the tip of the print. Below the core there are abundance of usual type or friction ridge features such as bifurcations and ridge ending those you expect to see in the area below the core and the delta (nondiscriminatory features). The area of the print between the delta and the core is distorted and unreliable for a ridge count. Level 3 detail: The ridges below the general area of the delta are thicker than the rest of the print. Possible level 3 details in the core general area. Distortion: Various distortion throughout the print. Possible dirt on the surface that created "air bubbles" in the lift and those are observed to the left of the core general area. Possible ridge slippage is observed in the core general area. Apparent swipe marks through the middle and the core area of the print. The area between the core and the delta appears to have ridges that were partially released from the surface and slide leaving behind misaligned ridges. The ridges in the bottom of the print have different deposition pressure and they appear to be bold in the middle and thins out at the edges. Additionally, they appear to run into the ridges and create wavy ridges "twist and torque". Comparison Decision: Due to the analysis of latent print Q1, described above, to the analysis of the known exemplars and our section Standard Operating Procedures Training Bulletin #003 "Comparison Exclusion Crite

## TABLE 2

WebCode- Test	Additional Comments
VMBTL4- 5175	Hi, Thank you for this test. It is well prepared. Hope next one to have more latent palm prints and more difficult. Best Regards, [Analyst]
W7RWXV- 5175	Q1: Insufficient quantity/quality of information. Q5: Insufficient quantity/quality of information
XB98CB- 5171	Inconclusive for impression 5A: There are dissimilarities and insufficient ridge detail in agreement between the latent print, #5 impression A and the known print, individual C, finger #7 left index.
XETA4G- 5171	Q5 latent had similar features in common with Item C left index. However, I felt it lacked sufficient information to make an identification. There is distortion in and above the core area in the latent that did not exist in the known LI of Item C. I would not ID it in actual case work, so I marked it inconclusive.
XRWPYK- 5175	It is difficult to work with copies
Z2XF7D- 5171	Q5 has several minutiae in common with subject C, finger #07 and the ridge count is in agreement with the aforementioned points. There is also consistent level 3 detail. However, due to the low volume of minutiae points and latent distortion, I marked Q5 as "inconclusive".
Z6HG2Y- 5175	Q1: The latent print is deposited with motion/rotation. There is disturbances in the area between the core and the delta, which you can work around. The print is still useable for comparison. Q5: One minutia which can be found on the tenprint form is not present in the latent print due to scare tissue in the area. All remaining information in the sample can be matched to the comparison material resulting in an identification as the differences can be explained.
Z83N38- 5171	Impression Q5 inconclusive to Individual C- Finger #7 Left Index. Significant agreement observed but Q5 has apparent distortion that precludes identification. Additional exemplars necessary to complete comparison, specifically the area toward the top of the finger in the 11 o'clock - 1 o'clock range relative to the core. Necessary area is highlighted in orange on the last page of the case attachments. Attachments also include some of the corresponding L2 features that were observed between the two impressions, and areas of disagreement/ questionable agreement between the two impressions.
ZKEP8E- 5175	Inconclusive due to the lack of sufficient detail and or clarity in the latent impression.
ZL8MDY- 5175	Another fine proficiency test!
ZPKFAJ- 5171	Photocopies were not clear (in focus) at all

#### Collaborative Testing Services ~ Forensic Testing Program

#### Test No. 23-5171: Latent Print Examination

DATA MUST BE SUBMITTED BY Oct. 30, 2023, 11:59 p.m. EDT TO BE INCLUDED IN THE REPORT

Participant Code: U1234D WebCode: 8RPFBH

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

#### Scenario:

Investigators have submitted eleven latent prints and have asked that they be compared to the known fingerprints and palm prints they have provided.

#### <u>Items Submitted (Sample Pack LPP2 - Photographs):</u>

Item A: Known fingerprints and palm prints of Individual A

Item B: Known fingerprints and palm prints of Individual B

Item C: Known fingerprints and palm prints of Individual C

Item D: Known fingerprints and palm prints of Individual D

Items Q1 - Q11: Eleven latent prints recovered from the scene

#### 1.) Indicate the results of your comparisons by marking the appropriate boxes.

Please indicate the specific finger or palm identified for each latent print in this test.

If the identification of a latent fingerprint is made utilizing the palm print exemplar, please indicate ONLY the identified finger. The exemplar used for identification (e.g. LP, RP) may be documented in the Additional Comments but is not required.

If a conclusive identification cannot be made, check "Not Identified" or "Inconclusive" based on your laboratory policies/procedures. Do NOT leave a blank response.

\*Should a print(s) be marked "Inconclusive," please document the reason in the Additional Comments section of this data sheet.\*

		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	Right Palm	Left Palm		
	Item Letter	RT	RI	RM	RR	RL	LT	LI	LM	LR	LL	RP	LP	Not Identified	Inconclusive*
Example 1	Α					$\circ$					$\circ$		$\bigcirc$	$\circ$	
Example 2		$\circ$				$\circ$		$\bigcirc$			$\circ$		$\bigcirc$		0

Participant Code: U1234D WebCode: 8RPFBH

## 1.) continued.

·		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	Right Palm	Left Palm		
	Item Letter	RT	RI	RM	RR	RL	LT	LI	LM	LR	LL	RP	LP	Not Identifie	d Inconclusive*
Q1															
Q2															
Q3															
Q4							$\bigcirc$		$\bigcirc$						
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	Right Palm	Left Palm		
	Item Letter	RT	RI	RM	RR	RL	LT	LI	LM	LR	LL	RP	LP	Not Identifie	d Inconclusive*
Q5															
Q6															
Q7															
		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	Right Palm	Left Palm		
	Item Letter	RT	RI	RM	RR	RL	LT	LI	LM	LR	LL	RP	LP	Not Identifie	d Inconclusive*
Q8															
Q9															
Q10															
Q11															

## 2.) 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 response in lists and tabular formats.

\*Should a print(s) be marked "Inconclusive," please document the reason in the Additional Comments section of this data sheet.\*

Note: Written conclusions are not required for this test. They are not to be substituted for additional comments.

Participant Code: U1234D WebCode: 8RPFBH

#### 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: Provi	ide 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						
L [	Laboratory Name						
L	Location (City/State)						