



## **Latent Print Examination Test No. 19-5161/2/5 Summary Report**

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Each sample pack of this test contained one of the following: digitally produced photographs (19-5161), a DVD containing digital images (19-5162), or directly downloadable digital images (19-5165) of twelve latent prints and four sets of known finger and palm imprints. Participants were asked to compare these items and report their findings. Data were returned from 331 participants: 187 for 19-5161, 83 for 19-5162, and 61 for 19-5165 and are compiled into the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

## **Manufacturer's Information**

Each sample pack contained either photographs or digital images consisting of known finger and palm imprints of four individuals and twelve latent "crime scene prints". Nine of the twelve latent prints were made by individuals for whom inked imprints were provided; three were from an individual for whom inked prints were not provided.

**SAMPLE PREPARATION:** All inked known fingerprints and powder-dusted or ninhydrin developed latent prints were scanned directly into image editing software and assembled onto test templates. Background noise of each latent print was digitally reduced. The latent prints were provided in 1X and 2X magnification on the physical photographs. Ninhydrin latent prints were provided in both full color and black and white versions.

**VERIFICATION:** Prior to predistribution, the latent prints were examined and confirmed by an external advisor to present appropriate detail, clarity, and difficulty. The expected Identification and Not Identified responses were reported by the predistribution examiners.

**SAMPLE PACK ASSEMBLY:** Once verification was complete and sample preparation was done, each photo set was packaged and sealed. Each DVD was checked to ensure all images were accessible. Digital download media were zipped and uploaded to the CTS portal.

<b>Latent No.</b>	<b>Print Source</b>
Q1	Not Provided, - (NI)
Q2	Item C, Left Palm (C, LP)
Q3	Item A, Right Middle (A, RM)
Q4	Item D, Right Little (D, RL)
Q5	Item A, Left Ring (A, LR)
Q6	Item B, Left Little (B, LL)
Q7	Not Provided, - (NI)
Q8	Item C, Left Middle (C, LM)
Q9	Not Provided, - (NI)
Q10	Item B, Left Palm (B, LP)
Q11	Item A, Left Index (A, LI)
Q12	Item C, Right Middle (C, RM)

## **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-Q6, Q8, Q10-Q12) were made by one of four individuals for whom inked prints were provided (Items A-D). Three latent prints (Q1, Q7, Q9) were from an individual for whom inked prints were not provided (Refer to the Manufacturer's Information for preparation details).

Of the 331 responding participants, 316 (95%) reported the expected nine identifications and three non-identifications. There were fifteen participants who reported inconsistent results for one or more of the latent prints; however, over 98% consensus was achieved for each individual print. Outliers to the consensus are described as follows, with the types of outlying responses provided in parentheses following each description.

There were six participants who attributed a latent to a different finger or palm than that established by the consensus (Other Identifications). There were nine participants who did not identify one or more latent prints for which known exemplars were provided (Not Identified). Within these nine participants, two participants also attributed a latent to a different finger or palm than that established by the consensus (Other Identifications and Not Identified). The most common inconsistent result was the missed identification of Item Q10, where five participants did not identify it to the known exemplar and one identified it to a different known exemplar. Outlier responses were reported for eight of the twelve latent prints in this test.

In response to customer feedback for more challenging prints that represented the diversity of their casework, this test included several non-powder developed and improperly oriented latent prints. While the level of quality of these prints is equitable to the powder dusted prints, CTS was diligent to review all additional comments to determine if any participants found them to be inferior for analysis. No observations were made in reference to these specific prints, and the statistics do not reflect a significant increase in outliers as a result of their inclusion. CTS intends to continue offering these types of prints in future tests.

# Latent Print Identifications

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
266KPU-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
2BC7DR-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
2BHC6M-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
2CMZ9R-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
2HA2BP-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
2LDRJQ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
2RALAL-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
2W2UC7-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
32ZG4K-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3472U7-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
36RQW9-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
377AXG-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3AMP6C-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3BDQBZ-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3CLHQM-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3DTVAA-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3M89JD-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3P4BC9-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3UEJHJ-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode-Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
3URZDL-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3WYHCG-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
3YK666-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
42ULXK-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
43TKGT-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4BAHLD-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4BBHDZ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4DAHCN-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4E38JX-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4KCZUU-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4M4YBD-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4NRX7Q-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4QB6B6-5161	NI	NI	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4W2H9M-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
4ZM6YH-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
62NUGN-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
633YFL-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6A49QK-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6AUJ2N-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6C2X9U-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
6FBP8L- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6FUH34- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6KMPG7- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6LNYP4- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6NB3EG- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6NMZAK- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6RKGKU- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
6UDATJ- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
72RF6G- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, RI	C, RM
7UXTD6- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
7V9QQL- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
7WEXCE- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
82QMN8- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
87PWZV- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
88GU92- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
8BM7QM- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
8EBF7F- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
8FCVRZ- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
8H3WWN- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
8JUTLH- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
8K3AC2-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
8NADMN-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
8Q9AMJ-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
8WLERD-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
926QWK-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
93G2UW-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9C2R2A-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9CGA3U-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9G62TC-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9HUCK6-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9N9V86-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9XXLTW-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9YU8EB-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9YWUXA-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
9Z8MWH-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
A24RGQ-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
A4CYL4-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
A4UQXA-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
A6ELH9-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
A9QG4L-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
ADADDG-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ADQHME-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ALDQN6-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
AU66RC-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
AVNW4T-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BA4GY7-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BAVPL6-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BAY4BA-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BBFT43-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BECMTQ-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BHYEQF-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BJ9BCJ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BLTB93-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BNCKYF-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BQ8VFZ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
BQZWZ7-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
C3JKPP-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
C46CHV-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
C6CYQT-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	NI	A, LI	C, RM
C6DNYW-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM



TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
C9PGBB-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CCE3MJ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CDEVZG-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CE7YCD-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CEYG6E-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CFDEHJ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CG324M-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CGW2G2-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CQ7HC4-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
CUGFK2-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
D2BAMR-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
D3YC7D-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
D6TTT9-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
D938YK-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
DDDDGD-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
DMXPQ6-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
DPJJ7U-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
DVFWVN-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
DWBEV4-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
E6MYM8-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode-Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
E9WDTK-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
EBCWEN-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ECY7WV-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	NI	NI	B, LP	A, LI	NI
EFJ6F6-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
EHL2Q9-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
EJHA6J-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
EMHGQG-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ERCPLB-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ET9XZL-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
EU9F9P-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
EW22KD-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
F2GW2B-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
F7EECA-5161	NI	NI	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
F9KFHL-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
FD3DC3-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
FFP8T4-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
FHUMEN-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
FN8FRK-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
FTHMEH-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
FV8TWU-5161	NI	NI	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	NI	A, LI	NI

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
FVPR7K-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
FVT8K8-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
G22AJT-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
G2EGCG-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
G6HWXY-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GBYQW4-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GE4A3C-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GLPV2V-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GPF27C-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GPP8XV-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GRLDZ8-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GVFG8U-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GVMCE7-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GXTX7C-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
GXXZ8H-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
H2C8ZB-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
H3QXGE-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
H6N4G6-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
H922M8-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
HAMFEQ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode-Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
HC7MHJ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
HT7RHP-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
HW3BNU-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
HX6Z8H-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
J62BX8-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
J6PTDM-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
J7N46J-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, RM	NI	B, LP	A, LI	C, RM
J8PLUR-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
JCZRCJ-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
JNVQFH-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
JVMB66-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
JYNNGW-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
K84DGG-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
K8BDNC-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
K8JRNQ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
KBLP24-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
KDB2XN-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
KEMPKA-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
KGPLNY-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
KGWPR3-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode-Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
KHTJNU-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
KK74XE-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
KMEAJF-5161	NI	NI	A, RM	D, RL	NI	C, LL	NI	C, LM	NI	B, LP	NI	NI
KVG8K7-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
KVUL49-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
L3YAMA-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
LMHHHF-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	C, LP	B, LP	A, LI	C, RM
LVBCD6-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
LVCN BG-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
LXTNZN-5161	NI	C, LP	A, RM	D, RL	A, LR	NI	NI	C, LM	C, LP	NI	A, LI	NI
LZF8YZ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
M2MWHC-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
M34YQW-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
M3Q8Z2-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
M3UFZK-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
M8HH4X-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
M9BM86-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
MCE4VZ-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
MJA8QW-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
MJBVAV-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode-Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
MPHJPH-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
N479UM-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
N69T49-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
N6DV4L-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
N7NZG3-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
N93UQW-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
NB7PAY-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
NENWPL-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
NJLEB6-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
NJRHBB-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
NJZV3Z-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
NMH3HM-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
NMMDQ4-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
NNFBXA-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, RP	A, LI	C, RM
NPKKGV-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
P3EGMY-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
P64TKJ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
P66LKC-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
P6JADR-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
PA6C2X-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
PHTRA2-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
PKHZR3-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
PKZ6XU-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
PL8HJ3-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
PLB6WA-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
PPNRL8-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
PTPX3Y-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
PVDA36-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
Q48RXR-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
Q9FZJ3-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
QBDTRF-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
QEMLAL-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
QH46B3-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
QLQNF8-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	NI	A, LI	C, RM
QM6FXB-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
QP9U6U-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
QPX4KD-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
QTZ6MV-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
QXZ8AV-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
R2G4YX-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
R3E8YZ- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
R8J4JZ- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
R92XLV- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
RC7W33- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
RF3LJA- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
RNYFJT- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
RTH9C8- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
RVW9RM- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
RY4J3G- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
T237WK- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
T8ZFNX- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
TE6UQZ- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
TER2CL- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
TGP7AQ- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
TLRF2T- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
TMT434- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
TUENCH- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
U33HMX- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
U4W68N- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
U9QY9W- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM



TABLE 1

WebCode-Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
UAKTZY-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
UARC9J-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
UERDQR-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
UGYVNM-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
UKRYZF-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
UQW6TR-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
UU7JY6-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
UUD9K3-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
UY7WV-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
V6MHDD-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
V6PZGB-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
V8B2CQ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
V9EY4M-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
VBD2LN-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
VH2XVR-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
VL2DY9-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
VMT6DZ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
VNB7GE-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
VQBPZF-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
VW8RZ-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
VX3RKQ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
VZ27TQ-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
W8LMYX-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	NI	A, LI	C, RM
WAGUUV-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WBP8CX-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WDA96X-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WEYJK8-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WF24TR-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WG2GTE-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WGICYFK-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WGERB8-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WLDURT-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WM3E4Q-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WME9NX-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WNMDYP-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	A, LP	B, LP	A, LI	C, RM
WPQP2B-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WQX8V2-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WVLZN4-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WW9A8W-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WX3QUR-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode- Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
WXXK2V- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
WYVWXY- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
X4UUKH- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
X9NNHJ- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
XGKJKN- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
XLBX34- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
XLREVB- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
XQFANV- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
XQGBAT- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
XRRFJB- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
XTD89V- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
Y4LBQB- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LP	C, RM
Y9DAVL- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
YD76RY- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
YFW9WR- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
YKMT9M- 5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
YQ8Y2M- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
YZKPZL- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
Z3WDFA- 5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
Z4FU24- 5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

TABLE 1

WebCode-Test	Items Q1-Q4				Items Q5-Q8				Items Q9-Q12			
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Z6APHL-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
Z6CRM6-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
Z84TL2-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
Z8AVXQ-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ZE47QB-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ZEXHRW-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ZH2RFT-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ZHCFZJ-5165	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ZKG2UB-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ZKKN7H-5162	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ZPRWRT-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM
ZPVJ62-5161	NI	C, LP	A, RM	D, RL	A, LR	B, LL	NI	C, LM	NI	B, LP	A, LI	C, RM

Response Summary												Participants: 331
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Consensus:	<b>NI</b>	<b>C, LP</b>	<b>A, RM</b>	<b>D, RL</b>	<b>A, LR</b>	<b>B, LL</b>	<b>NI</b>	<b>C, LM</b>	<b>NI</b>	<b>B, LP</b>	<b>A, LI</b>	<b>C, RM</b>
Number:	<b>331</b>	<b>327</b>	<b>331</b>	<b>331</b>	<b>330</b>	<b>329</b>	<b>331</b>	<b>329</b>	<b>328</b>	<b>325</b>	<b>328</b>	<b>327</b>
Percent:	100.0%	98.8%	100.0%	100.0%	99.7%	99.4%	100.0%	99.4%	99.1%	98.2%	99.1%	98.8%
Not Identified (NI):	--	4	0	0	1	1	--	1	--	5	1	4
Other Identifications:	0	0	0	0	0	1	0	1	3	1	2	0

# Additional Comments

TABLE 2

WebCode-Test	Additional Comments
3URZDL-5161	Q11 is a joint.
6A49QK-5165	There were too many high quality and easy latents. The palm prints were more challenging. Only four sets of known prints is not much specially when comparing latent fingerprints against them.
8NADMN-5162	For Q9: excluded exemplars B, C, and D. Exemplar A inconclusive (missing area of detail - better quality exemplar of left palm required for comparison).
C3JKPP-5162	Q11 is identified with the right index finger and phalange
C46CHV-5161	Known exemplars were better quality this year.
F7EECA-5161	Latent impression Q10 was identified to the Left Palm Print Interdigital area, on Item B (Left Palm Print) said to belong to Steve Harrington. The impression required 180 degree rotation from how it appears on the submitted printout, in order to be placed in a proper orientation for comparison purposes with the known impression. Latent impression Q11 is a finger joint, containing small area of joint #1 (distal phalanx), and a larger area of joint #2 (medial phalanx). It was compared and identified to Finger #7 (Left Index) joints #1 and #2, said to belong to Nancy Wheeler (Item A).
F9KFHL-5161	Q11 Identified as Item A and its sources are the Left index (#7) finger and the left palm joint region.
JVMB66-5161	Q11 IS THE LEFT INDEX FINGERJOINT
JYNGW-5161	Q11- the latent was ident to lift index's phalange for item A. i found some of the latent prints in this test were obviously cropped and not what would be seen during the course of normal casework
K8BDNC-5162	For Q9: excluded B and C. Exemplars A and D inconclusive (need clear palm impressions).
M8HH4X-5161	Q 1, 7, 9 Supplied POI's excluded.
N69T49-5162	For Q9: excluded exemplars B, C, and D. Exemplar A inconclusive (left thenar not clearly recorded on exemplar).
QM6FXB-5165	Always keeping in mind I would rather let a guilty person free than send an innocent person to jail. A few of the latent prints I identified for test purposed, so I would pass this test, I would not identify for court purposes due to the poor quality of the latent print. There is no standard for latent prints as everyone knows though several agencies here in [Country] and in other countries use some type of rule, example 8 points 10 points maybe more maybe less and so on. Through the years I have witnessed similarities of latent prints to known prints with maybe 3 or 4 points and with further examination have found discrepancies which caused a NO ID. This test does represent case work as far as clarity to some latent prints. This test does not represent what would be an identification for court purposes. This is my opinion. Here in my Unit we use the ACE-V. Not for testing but for real case work which eliminates human error.
TE6UQZ-5162	The only issue I have with this test is the clarity of the known standards I had to use for the Q9 comparison. In real casework I would have rejected the standards and requested standards with better clarity. I went against all my training to make decisions based on creases and not actual minutia. This one print left me very uncomfortable and feeling as though I had possibly made a huge mistake on a proficiency test. The test this year was a nice combination of easy to difficult prints. I have no issues with any of the latents, only the known palm print standards.

TABLE 2

WebCode- Test	Additional Comments
TLRF2T- 5165	Q11 identified to Item A, LP.
TMT434- 5162	For Q9: excluded exemplars C and D. Exemplars A and B inconclusive (exemplar palmprints distorted in area of detail).
UAKTZY- 5165	Unusual triangle shape void in bottom of Item B, left palm, writer's palm impression.
VW87RZ- 5162	For Q9: excluded exemplar C. Exemplars A, B, and D inconclusive (LP, RP inconclusive due to poor exemplar quality).
YZKPZL- 5165	Our laboratory is not concluding to ID in that format. We will generally write: The findings provide extremely strong support in favour of the view that the mark X originates from finger Y as opposed to another unknown finger. By extremely strong support we mean that the finding are at least a million times more likely under the proposition of common source.
ZE47QB- 5162	The thenar area of the left palm of item A could have been of better clarity.
ZEXHRW- 5162	For Q9: excluded exemplar C. Exemplars A, B, and D inconclusive (incomplete exemplar(s) - need complete recording of exemplar prints in order to conduct a complete comparison).

-End of Report-  
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

## Test No. 19-5161: Latent Print Examination

DATA MUST BE SUBMITTED BY **March 25, 2019, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: FLM94H

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:**

Police are investigating vandalism to property within the grounds of a local park. Rangers Nancy Wheeler and Steve Harrington discovered that Ranger Wheeler's cabin had been unlawfully entered and vandalized. Based on identifications from security camera footage captured near the cabin, two individuals were apprehended and fingerprinted. Investigators have supplied you with images of twelve latent prints collected from the scene. They have also provided you with images of known prints from the two rangers, as well as the two suspects.

*Ninhydrin recovered prints have been provided in both full color and greyscale versions at 1x magnification.*

*\*\*Please note: an additional survey has been included at the end of the data sheet for your completion.\*\**

**Items Submitted (Sample Pack LPP1 - Photographs):**

Item A: Known finger and palm prints of ranger Nancy Wheeler.

Item B: Known finger and palm prints of ranger Steve Harrington.

Item C: Known finger and palm prints of suspect Barb Holland.

Item D: Known finger and palm prints of suspect Jane Ives.

Items Q1-Q12: Twelve 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 a conclusive identification cannot be made, check "Not Identified," do NOT leave a blank response.

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

		#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
Example 1	A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Example 2		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

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 Identified
Q1	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q2	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q3	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q4	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

		#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
Q5	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q6	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q7	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q8	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

		#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
Q9	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q10	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q11	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q12	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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.

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



## 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)