

Test 08-548: Glass Analysis

Test Summary: Each sample pack consisted of three samples of glass fragments. Items 1 and 2 were from the same pane of glass from a basement storm window; Item 3 was from a 10" x 12" pane of replacement glass. (Please see the Summary Report for additional summary comments and information.)

Association Results

Could the questioned glass fragments in Item 2 and/or Item 3 have originated from the broken window from the house (Item 1)?

Participant U1234A	Item 2		Item 3	
	Yes	No	Yes	No
All Participants	Yes	111 (96%)	4 (3%)	108 (93%)
	No	1 (1%)	3 (3%)	108 (93%)
Total: 116	Inc	3 (3%)	3 (3%)	3 (3%)

Examination Procedures

Refractive Index

nD

nF

nC

ΔRI

Color

Density

Elemental

Other: **Thickness**

UV Fluorescence

Long

Short

Conclusions

The glass fragments from the sweatshirt (Item 2) were indistinguishable in the properties examined from the known glass (Item 1) and therefore may have originated from the same source. These findings strongly support the proposition that the sweater was close to the window when it broke. The significance is in the range of: no evidence, inconclusive, slightly supports, supports, strongly supports, very strongly supports.

Additional Comments

The glass fragments in Items 1 and 3 were found to be different in refractive index and could not have originated from the same source.