

Date:03/20/94

Page:1

JFK ASSASSINATION SYSTEM

IDENTIFICATION FORM

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AGENCY INFORMATION

AGENCY : SSCIA  
RECORD NUMBER : 157-10011-10108

RECORDS SERIES :  
REPORT

AGENCY FILE NUMBER :  
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DOCUMENT INFORMATION

ORIGINATOR : FBI  
FROM :  
TO :

TITLE :  
ANALYSIS OF FIREARMS, VEHICLE, ETC.

DATE : 11/23/63  
PAGES : 26

SUBJECTS :  
COPIES OF PHOTOS; REPORT ON FIREARMS, SPECTROGRAPHIC  
MICROSCOPIC ANALYSES; FINGERPRINTS

DOCUMENT TYPE : PAPER, TEXTUAL DOCUMENT  
CLASSIFICATION : U  
RESTRICTIONS : OPEN IN FULL  
CURRENT STATUS : 0  
DATE OF LAST REVIEW : 03/24/94

OPENING CRITERIA :

COMMENTS :  
SSCI Box 337, Folder 12 (VI-C-5-D2)

SSCI Box 337, Folder 12

R 1954

VI-C-5-D2

Record Number 157-10011-10108

4/5/77

EG

SENATE SELECT COMMITTEE REQUEST  
November 21, 1975

November 6, 1975  
Item #4

OR DELIVERY

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NOV 1 1975  
DOJ

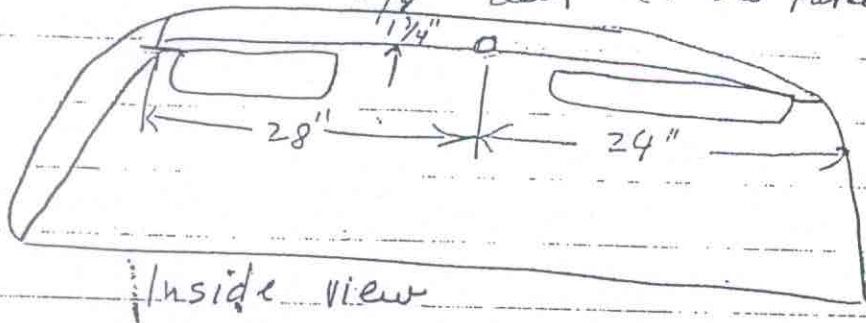
REVIEWED BY FBI/JFK TASK FORCE

ON 11/4/93 *dat*

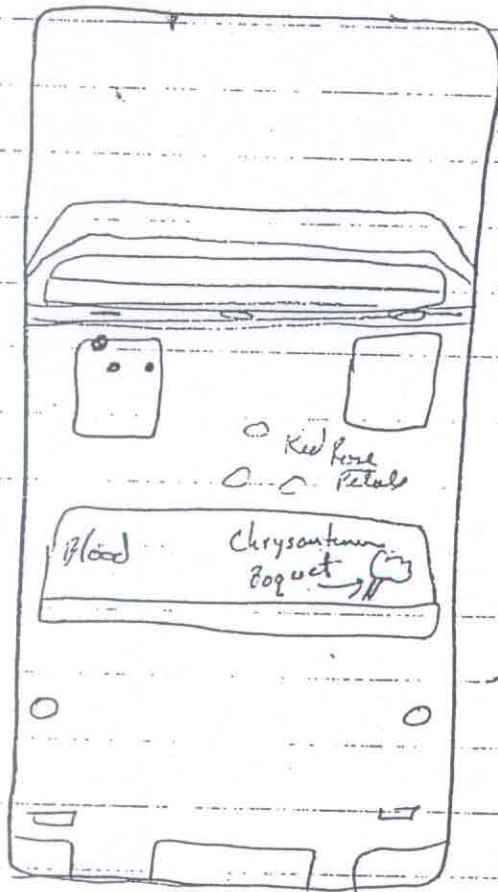
- RELEASE IN FULL
- RELEASE IN PART
- TOTAL DENIAL

*J.K.*

PC - Secret Serv. Gov. Lincoln Presed. Lincoln 11:30 AM 11/23/63  
chrome strip) seat (Photo taken) No direction indicated



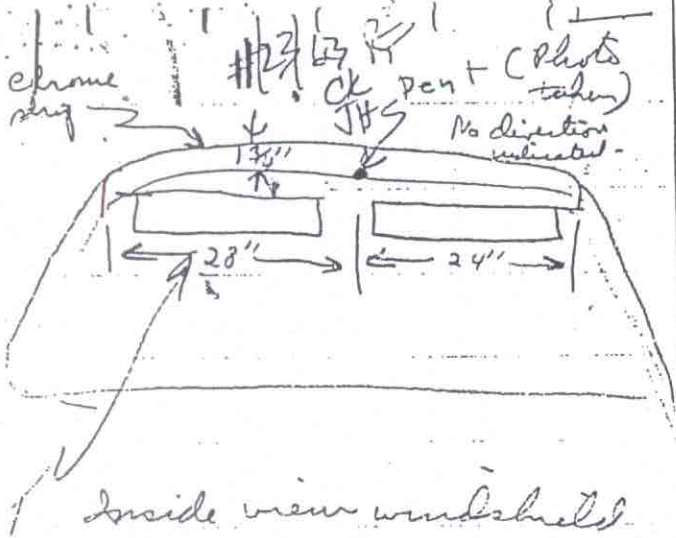
Inside view



Blood, tissue or bone  
Frag. scattered over interior  
of car and on hood-on visors  
(both sides of rt visor)

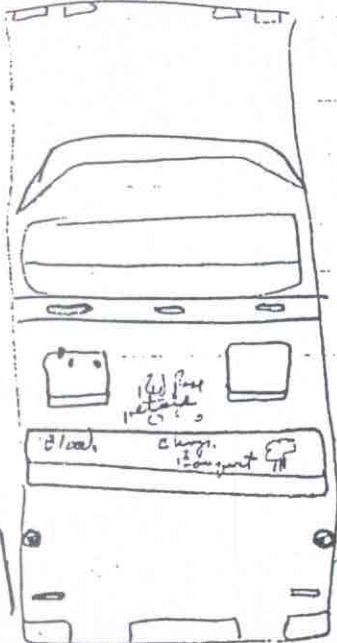
3 Frag. Lead found on rear  
floorboard, 2 on rug, 1 in  
seat hinge channel (Jump Seat)

No other frags. found in car  
No bullet holes found



Inside view windshield

Front

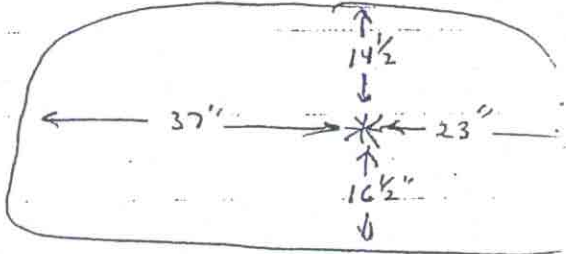


Blood, hair or  
bone frag. scattered  
over interior of car  
& on hood - on  
visors (both sides of  
Rt visor)

3 Frog Lead found  
on Rear floorboard.  
2 on Rugs, 1 in  
seat hinge channel  
(Trumps' seat.  
No other Frogs  
found in car,

No bullet holes found  
except torn out

11/23  
1:30 am  
Exam car -



outside view

Reference copy, JFN

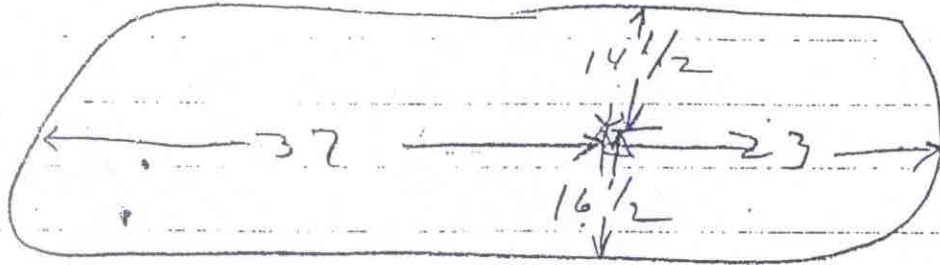
DEC 1 1973

DUI

15

PC282434

Linear dimension 11/23/63 R



Reference copy, JFK Collection: HSCA (RG 233)

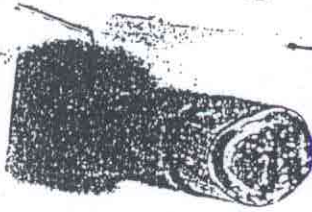
- 1 Linear resembling lead on inside
  - 2 Cracks on outside - stellate (radiating)
  - 3 Minute frag missing from outside
- Struck by projectile on inside surface

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Killiney  
Froyer  
Cunningham  
243



D 43646 AX

11/22/63  
11/23/63

Bullet from stretcher

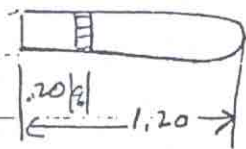
Wt - 158.6 grains

Type <sup>MCC</sup> <sup>(Non-subjected)</sup> 6.5mm Mannlicher-Carcano (Italian) Solid Pt

# L+G - 4 Rt

Land - .07

Groove - .13



07  
13  
20  
24  
80 vs 796  
4R

Mfg: ~ to W.C.C. gr

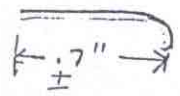
Bullet fragment from seat near driver

Wt 44.6 grains

No cannelure

Type None portion of MC-C with lead - Full metal jacket type

Land .07  
Gr  $\frac{13}{20} \times 4 = 80 = 6.5$



21.0  
65.6 gr

Bullet from beside front seat

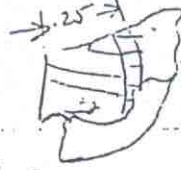
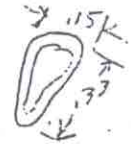
Wt = 21.0 gr

Q2+Q3 Should be from one or two bullets.

Type = MC Jacket - base only no lead - full metal jacket type

# L+G - 4 Rt

Land .07



REC-117 FRO

Groove  $\frac{13}{20} \times 4 = 80$  vs 296 or chest for 6.5mm

DEC 1 1915

Lead frag from head - 1.65 grains

11/23 Bethesda No Lab Specto hum

" " " " @ 15 gr

(#1 from floorng left side jump seat @ 9 gr) @ 4 No Value

" " " " @ 7

" " " " @ 7

Lead frag - 5grs - Gov. arm. @ 9 No Value

7

14

DOJ  
Specto hum  
of some - see G.H.  
W.S. R. then  
+ 02 - P. 201

*Lab. reports*  
*To Co - Dallas Nov 23, 1963*

RECORDED  
11/26/63 KO

FEDERAL BUREAU OF INVESTIGATION  
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Re **ASSASSINATION OF PRESIDENT  
JOHN F. KENNEDY**

File #  
Lab. # **PC-78243 BX JV**

**Mr. Jesse E. Curry  
Chief of Police  
Dallas, Texas**

Examination requested by:

Examination requested: **Firearms - Spectro. -  
Microscopic - Fingerprint**

Date received:

Result of Examination:

Examination by: **FRAZIER  
STONBAUGH  
GALLAGHER**

- 2 - Chief, U. S. Secret Service**
- 2 - FBI, Dallas**
- 1 - FBI, Washington Field**
- 1 - FBI, Richmond**
- 1 - FBI, Baltimore**
- 1 - FBI, Chicago**

Specimens submitted for examination

**Evidence received from Special Agent Elmer L. Todd, Washington Field Office of the FBI on 11/22/63:**

**Q1 Bullet from stretcher**

**Evidence received from Special Agent Orin Bartlett of the FBI on 11/22/63:**

- Q2 Bullet fragment from front seat cushion**
- Q3 Bullet fragment from beside front seat**

**Evidence received from Special Agent James W. Sibert and Special Agent Francis O'Neill, Jr., of the Baltimore Office of the FBI on 11/23/63:**

- Q4 Metal fragment from President's head**
- Q5 Metal fragment from the President's head**

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**DEC 1 1975**

**DOJ**

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Reference copy, JFK Collection: HSCA (RG 233)

Evidence received from Special Agent Vincent E. Drain of the Dallas Office of the FBI on 11/23/63:

- Q6 6.5 mm Mannlicher-Carcano cartridge case from building
- Q7 6.5 mm Mannlicher-Carcano cartridge case from building
- Q8 6.5 mm Mannlicher-Carcano cartridge from rifle
- Q9 Metal fragment from arm of Governor John Connolly
- Q10 Wrapping paper in shape of a large bag
- Q11 Suspect's shirt
- Q12 Blanket
- Q13 Bullet from Officer Tippett

- K1 6.5 mm Mannlicher-Carcano rifle, with telescope sight, Serial No. C2766
- K2 Paper and tape sample from shipping department, Texas Public School Book Depository
- K3 .38 Special Smith and Wesson revolver, Serial No. V510210, Assembly No. 65248

Evidence obtained by FBI Laboratory personnel during examination of the President's limousine:

- Q14 Three metal fragments recovered from rear floor board carpet
- Q15 Scraping from inside surface of windshield

Also Submitted: Photograph of rifle, K1  
Finger and palm prints of Lee Harvey Oswald

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UUI

12



Carbon

Fe	Pb	Sb	Mg	Sn	Pb	Cu	Ag	Fe
1		<.08 >.009	Mg <sup>tr</sup>	2008	≤.05	Cu .004	<.005	Fe <sup>tr</sup> <.001
2		<.08 >.009	Mg <sup>tr</sup>	0	≤.05	Cu .004	<.005	Fe <sup>tr</sup> <.001
3		<.08 >.009	Mg <sup>tr</sup>	0	≤.05	Cu .004	<.005	Fe <sup>tr</sup> <.001
4		<.08 >.009	Mg <sup>tr</sup>	0	≤.05	Cu .004	<.005	Fe <sup>tr</sup> <.001
5	.0035	.009		-	.05	.041		
6	.007	.009		.008		.0018		
7	.007	.009		.008	.032	.0018		
	AS	Sb		Sn	Pb	Cu	Ag	

- (1) larger piece from Q4 + Q5
- (2) largest piece Q14
- (3) From head Q9
- (4) head from Q2
- (5) Std. A10J
- (6) Std A10K
- (7) Std A10L

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10 sec for gun low Ar.  
1 min 20 sec H Ar. Exposure

PC-78243

Ⓟ

72 C. Control

69 Fe Arc

- 66 - 1 From larger piece of Q4 + Q5 lead Head of JFK
- 63 - 2 From larger piece of Q4 + Q5 lead Head of JFK
- 60 - 3 From largest piece Q14 (rug in front of jump seat)
- 57 - 4 From largest piece Q14 (rug in front of jump seat)
- 54 - 5 From lead in Q9 (right arm of Gov.)
- 51 - 6 From lead in Q9 (right arm of Gov.)
- 48 - 7 Lead from car Q2
- 45 - 8 Lead from car Q2
- 42 - 9 Scrapings from inside windshield Q15

Pb P<sub>2</sub> Cu

PC-78243

Nov 23 1963

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NOV 23 1963

REPORT of the



FEDERAL BUREAU OF INVESTIGATION WASHINGTON, D. C.

To: Mr. Jesse E. Curry Chief of Police Dallas, Texas

November 23, 1963

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

John Edgar Hoover, Director

Re: ASSASSINATION OF PRESIDENT JOHN F. KENNEDY

YOUR NO. FBI FILE NO. LAB. NO. PC-78243 BX D-436461 AX

Examination requested by: Addressee Reference: See below Examination requested: Firearms - Spectrographic - Microscopic Analyses - Fingerprint - Document Specimens:

Evidence received from Special Agent Elmer L. Todd, Washington Field Office of the FBI on 11/22/63:

Q1 Bullet from stretcher

Evidence received from Special Agent Orin Bartlett of the FBI on 11/22/63:

Q2 Bullet fragment from front seat cushion Q3 Bullet fragment from beside front seat

- Tolson Belmont Mohr Casper Callahan Conrad DeLoach Evans Gale Rosen Sullivan Tavel Trotter Tele. Room Holmes Gandy

2-Chief, U. S. Secret Service

2-FBI, Dallas

1-FBI, Washington Field

1-FBI, Richmond

1-FBI, Baltimore

1-FBI, Chicago

Page 1

MAIL ROOM TELETYPE UNIT

62-107660-1694 DEC 13 1963

Evidence sent Dallas cc to Sec. Dir. the FBI for immediate delivery. Sec. Smith cc to DH Bartlett 11/23

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(continued on next page)

Reference copy, JFK Collection: HSCA (RG 233)

Reference copy, JFK Collection: HSCA (RG 233)

Evidence received from Special Agent James W. Sibert and Special Agent Francis O'Neill, Jr., of the Baltimore Office of the FBI on 11/23/63:

- Q4 Metal fragment from the President's head
- Q5 Metal fragment from the President's head

Evidence received from Special Agent Vincent E. Drain of the Dallas Office of the FBI on 11/23/63:

- Q6 6.5 millimeter Mannlicher-Carcano cartridge case from building
- Q7 6.5 millimeter Mannlicher-Carcano cartridge case from building
- Q8 6.5 millimeter Mannlicher-Carcano cartridge from rifle
- Q9 Metal fragment from arm of Governor John Connolly
- Q10 Wrapping paper in shape of a large bag
- Q11 Suspect's shirt
- Q12 Blanket
- Q13 Bullet from Officer Tippett

- K1 6.5 millimeter Mannlicher-Carcano rifle, with telescope sight, Serial No. C2766
- K2 Paper and tape sample from shipping department, Texas Public School Book Depository
- K3 .38 Special Smith and Wesson revolver, Serial No. V510210, Assembly No. 65248

Evidence obtained by FBI Laboratory personnel during examination of the President's limousine:

- Q14 Three metal fragments recovered from rear floor board carpet
- Q15 Scraping from inside surface of windshield

Also Submitted: Photograph of rifle, K1  
Finger and palm prints of Lee Harvey Oswald

Results of examinations:

The bullet, Q1, is a 6.5 millimeter Mannlicher-Carcano rifle bullet. Specimen Q1 weighs 158.6 grains. It consists of a copper alloy jacket with a lead core.

PC-78243 BX

Page 2

(continued on next page)

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NOV 27 1963

Specimen Q2 is a portion of the core of a rifle bullet. Specimen Q2 weighs 44.6 grains and is composed of a portion of the copper alloy jacket and a portion of the lead core. Specimen Q3 is a portion of the base section of a copper alloy rifle bullet. Q3 weighs 21.0 grains and is composed of a section of the jacket from which the lead core is missing. It could not be determined whether specimens Q2 and Q3 are portions of the same bullet or are portions of two separate bullets.

The rifle, K1, is a 6.5 millimeter Mannlicher-Carcano Italian military rifle Model 91/38. Test bullets were fired from this rifle for comparison with specimens Q1, Q2 and Q3. As a result, Q1, Q2 and Q3 were identified as having been fired from the submitted rifle.

Specimens Q6 and Q7 are 6.5 millimeter Mannlicher-Carcano cartridge cases. They were manufactured by the Western Cartridge Company, East Alton, Illinois, as was the 6.5 millimeter Mannlicher-Carcano cartridge, Q8.

Test cartridge cases obtained from the submitted rifle were compared with specimens Q6 and Q7. As a result, specimens Q6 and Q7 were identified as having been fired in this rifle. The bullet, Q13, from Officer Tippett, is a .38 Special copper-coated lead bullet. Q13 weighs 158.6 grains and possesses the physical characteristics of 158 grain Western-Winchester revolver bullets. The surface of Q13 is so badly mutilated that there are not sufficient individual microscopic characteristics present for identification purposes. It was determined, however, that the .38 Special Smith and Wesson revolver, K3, is among those weapons which produce general rifling impressions of the type found on Q13.

The lead metal of Q4 and Q5, Q9, Q14 and Q15 is similar to the lead of the core of the bullet fragment, Q2.

A small tuft of textile fibers was found adhering to a jagged area on the left side of the metal butt plate on the K1 gun. Included in this tuft of fibers were gray-black, dark blue and orange-yellow cotton fibers which match in microscopic characteristics the gray-black, dark blue and orange-yellow cotton fibers composing the Q11 shirt of the suspect. These fibers could have originated from this shirt.

PC-78243 BX

A single brown viscose fiber and several light green cotton fibers were found adhering to the Q10 paper bag. These fibers match in microscopic characteristics the brown viscose fibers and light green cotton fibers present in the composition of the Q12 blanket and could have originated from this blanket.

It is pointed out, however, that fibers do not exhibit sufficient individual microscopic characteristics to be positively identified as originating from a particular source to the exclusion of all others.

No fibers were found on the K1 gun that could be associated with the Q12 blanket and no fibers were found on the Q10 paper bag that could be associated with the Q11 shirt.

The debris, including foreign textile fibers and hairs, removed from the Q12 blanket and Q11 shirt has been placed in pillboxes for possible future comparisons. These pillboxes and the glass microscope slides containing fibers removed from K1 and Q10 are being temporarily retained in the Laboratory for possible future comparisons with additional items of the suspect's clothing should they be recovered.

The Q12 blanket has been folded double and one corner has been folded in and pinned with a safety pin. A length of white cotton cord has been tied around this corner giving it a triangular-shaped appearance as if it had once contained a long object.

The paper of the wrapping and the tape, Q10, were found to have the same observable physical characteristics as the known wrapping paper and tape, K2, from the Texas Public School Book Depository.

The inside surface of specimen Q10 did not disclose markings identifiable with the rifle, K1. A number of indentations, folds and extraneous markings appear on the inner surface of the Q10 wrapping.

The latent prints appearing in the photograph taken of the rifle, K1, by the Dallas Police Department, are too fragmentary and indistinct to be of any value for identification purposes. Photographs of this weapon taken by this Bureau also failed to produce prints of sufficient legibility for comparison purposes.

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PC-78243 BX

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(continued on next page) U J

Reference copy, JFK Collection: HSCA (RG 233)

A latent fingerprint was developed on the wrapping paper, Q10, which was identified with the left index finger impression of Lee Harvey Oswald. In addition, one latent palm print developed on specimen Q10 was identified with the right palm print of Oswald.

No latent prints of value were developed on Oswald's revolver, the cartridge cases, the unfired cartridge, the clip in the rifle or the inner parts of the rifle.

Specimens Q1 through Q5, Q14 and Q15 are being retained in the Laboratory until called for by a representative of the U. S. Secret Service.

Specimens Q6 through Q13, K1, K2 and K3 are being returned to the Dallas Police Department by Special Agent Vincent E. Drain of the Dallas Field Office of this Bureau. The photograph of the latent print on the rifle is being returned separately. The fingerprints and palm prints of Oswald are being retained.

ADDENDUM TO FBI, DALLAS:

You should attempt to obtain the remaining items of clothing suspect is believed to have worn during the shooting for comparisons with the other fibers found on the K1 gun. You should also obtain fingernail scrapings from the suspect for examination to determine if any fibers are contained therein which match the fibers in the Q12 blanket.

PC-78243 BX

Page 5

REC-11  
MAY 1964

5

Antimony Determination  
 $Sb^{124} \cdot 60 \text{ days} = T \frac{1}{2}$

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Sample	weight * Mg.	Sb PPM	Deviation from mean: D	D <sup>2</sup>	Standard deviation
A	7.16	643	- 54	2916	
B	4.2	636	- 61	3721	
C	1.79	750	+ 53	2809	
Q <sub>1</sub> D	1.24	749	+ 52	2704	
E	3.74	755	+ 8	64	
Avg		697			17.48
Q <sub>1</sub> E**	1.16	749			
A	39.75	521	- 13	169	
B	21.6	521	- 13	169	
Q <sub>2</sub> C	3.84	578	+ 44	1936	
D	3.68	515	- 19	361	
Avg		534			29.63
Q <sub>4,5</sub>					
S	5.22	555	- 6	36	
L <sub>a</sub>	6.85	552	- 9	81	
L <sub>b</sub>	21.15	532	- 29	841	
L <sub>c</sub>	8.25	606	+ 45	2025	
Avg		561			31.52
A	1.92	690	+ 18	324	
Q <sub>3</sub> B	2.07	662	- 14	196	
S	1.34	677	+ 1	1	
Avg		676			16.14

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Antimony Determination (cont'd) in Lead Specimen

Sample	Weight* mg	Sb ppm	DEVIATION From Mean D	D <sup>2</sup>	STANDARD DEVIATION
S	10.65	543	- 19	361	
S(b)	9.70	582	+ 20	400	
Q14 La	5.78	546	- 16	256	
Lb	3.77	552	- 10	100	
Lc	2.85	587	+ 25	625	
Avg		562			
<p>* Represents the weight after surface was swaged.</p> <p>** Sample swaged for second time and re-run.</p> <p>Standard Deviation = <math>\sqrt{\frac{\sum D^2}{n-1}}</math></p>					

Reference copy, JFK Collection: HSCA (RG 233)

REC'D  
D.U.J

Reference copy, JFK Collection: HSCA (RG 233)

Substrate Determinations: Using correction factor when concentration is comparable to T<sub>h</sub>

Substrate	Weight mg	A <sub>g</sub> PPM	DEVIATION from standard	D <sup>2</sup>	STANDARD DEVIATION
S <sub>1</sub>	a 8.0	9.19	- .21	.0441	.297
	b 5.7	9.61	+ .21	.0441	
	Avg	9.40			
S <sub>2</sub>	a 11.8	8.09	+ .16	.026	.912
	b 25.2	9.15	+ .22	.49	
	c 4.57	7.22	- .71	.50	
	d 3.89	7.24	- .69	.48	
Avg		7.93			
S <sub>3</sub>	a 3.8	8.95	+ .48	.230	.428
	Res La 13.0	8.33	- .14	.020	
	Lb 21.5	8.13	- .34	.1156	
Avg		8.47			
S <sub>4</sub>	a 2.3	9.21	- .04	.0016	.057
	b 2.3	9.29	+ .04	.0016	
Avg		9.25			
S <sub>5</sub>	a 10.9	8.63	+ .17	.03	.155
	Res La 8.5	8.40	- .06	.0036	
	Lb 4.7	8.34	- .12	.0144	
Avg		8.46			

Reference copy, JFK Collection: HSCA (RG 233)

- 1 - Mr. Belmont
- 1 - Mr. Rosen
- 1 - Mr. Sullivan
- 1 - Mr. Malley
  
- 1 - Mr. Conrad

March 24, 1964

By Courier Service

Honorable J., Lee Rankin  
 General Counsel  
 The President's Commission  
 200 Maryland Avenue, Northeast  
 Washington, D. C.

*Assassination of  
 President J. Kennedy*

FBI RECEIVED  
 MAR 24 4 25 PM '64

REC'D-READING ROOM  
 MAR 24 2 02 PM '64

Dear Mr. Rankin:

Reference is made to your letter dated March 18, 1964, in which you requested a report of the results of the examination by the FBI of the President's automobile.

On the morning of November 23, 1963, a detailed search of the President's automobile was conducted at the White House Garage in Washington, D. C., by Laboratory personnel. This search was conducted for the purpose of locating any bullets or bullet fragments for examination. Three small metal fragments, Item C16, were found on the rear floor carpet of the automobile. Metallic residues, Item C17, were observed on the inside surface of the windshield at the cracked area and these residues were removed. It was subsequently determined by spectrographic analysis and was reported that the three metal fragments and metallic residues were similar in composition to the lead of the core of the bullet fragment, Item C2, which had previously been found on the front seat cushion by the Secret Service.

REC-24 62-109060-2749

A dented area was located on the inside surface of the windshield chrome molding, at the top near the center, which was possibly produced by a bullet or bullet fragment.

Your request for a verbal description of the assassination scene and a contour map of the immediate area is being handled by separate letter.

Sincerely yours,

J. Edgar Hoover

- Tolson
- Belmont
- Mohr
- Casper
- Callahan
- Conrad
- DeLoach
- Evans
- Malone
- Rosen
- Sullivan
- Tavel
- Trotter
- Tele. Room
- Holmes
- Gandy

105-82555

EX-10 (8)

BY COURIER SVC.  
 50 MAR 24 1964  
 COMM-FBI

XEROX  
 MAIL ROOM TELETYPE UNIT  
 1964

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- TOTAL DENIAL

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