7-2

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-732[illegible] BX 37

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
STOMBAUGH
GALLAGHER

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 11/23/63:

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

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

Q4 Metal fragment from 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 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. 85248

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

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

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

RECORDED
12/4/63
bmm

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Re: EDWIN A. WALKER
INFORMATION CONCERNING

File #
Lab. # PC-78373 BX HB

Examination requested by: SAC, Dallas (157-218) (let 12/2)

Examination requested: Firearms (guns and ammu) Spectrographic

Date received: 12/4/63 hw

Result of Examination:

Examination by: Frazier Heiberger

Specimens submitted for examination

Q188 Bullet from Edwin A. Walker's residence

[illegible]

[illegible]

[illegible] 3/20/[illegible]

	Sb	Pb	Mn	Sn	Sr	Bi	Cu	Ag
Q188	1t	+	—	0	—	—	—	t
Q2	—	+	—	0.	1t	t	—	t

JA #3 4/?/0 .40 sec [illegible]

	Sb	As	Sn	Pb	Bi	Cu	Mn	Zn	Sr	Fe	Ag
27 Gifford pellet	O	O	—	—	O	++	+	ft	ft	—	
1 "			ft	ft		++		ft			
.2 "			ft	—		++		ft			
?3 "			ft	—		++		ft			
~~Q.188 " [illegible]~~			~~vft~~			~~±~~		~~ft~~	~~vft~~		
K from [illegible] "			—	ft		++		ft	ft	—	
Fe			=			=	=				
Q.188 Lead Alloy	O		vft	+++	±	—	ft	O	ft	ft	—
Q.1 "	—	O							vft	vft	
Q.2 "	—								ft	vft	
Q.188 "	O								vft	ft	
K from [illegible] "	ft								O	O	
K from [illegible] "	ft						—		ft	ft	
Fe	=			=							

Brown. Q 188 & K from [illegible] have trace of Sn

Lead — Q1 & Q-2 have trace of Sb

([illegible])

Q1 [illegible] pellet [illegible]

Q 2 [illegible]

Carbon

Fe	Pb	Sb	Mg	Sn	Bi	Cu	As	Fe	S
1	↓	<.08 >009	Mg tr	<008	≤05	Cu ~.04	<005	Fe tr <001	[illegible]
2	↓	<.08 >009	Mg tr	<008	≤05	Cu ~.04	<005	Fe tr <001	[illegible]
3	↓	<.08 >009	Mg tr	<008	≤05	Cu ~.04	<005	Fe tr <001	[illegible]
4	↓	<.08 >009	Mg tr	<008	≤05	Cu ~.04	<005	Fe tr <001	[illegible]
5	.0035	009	//	—	.05	.041			
6	.007	009		008		.0018			
7	.007	009		008	032	.0018			
	As	Sb		Sn	Bi	Cu	Ag		

(1) larger piece from Q4 + Q5
(2) largest piece Q14
(3) From head Q9
(4) head from Q2
(5) Std. A101
(6) Std A104
(7) Std A104

10 sec pre burn low Ar.
1 min 20 sec H Ar. Exposure

PC-78243

[illegible]

72 C - Control

69 Fe - Acc

66 – 1 From larger piece of Q4 + Q5 Lead Head of TEK

63 – 2 From larger piece of Q4 + Q5 Lead Head of TEK

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 Can Q1

45 – 8 Lead from Can Q2

42 – 9 Scrapings from inside Windshield Q15

Pb Ri Cu

PC-78243

Nov 23 1963

Recorded
8-7-64 cmj

FEDERAL BUREAU OF INVESTIGA
UNITED STATES DEPARTMENT OF J

Laboratory Work Sheet

Re: LEE HARVEY OSWALD, aka
IS - R - CUBA

Examination requested by: President's ~~Commission~~

Examination requested: Photographic ~~Microscopic~~ Electrostatic
Firearms

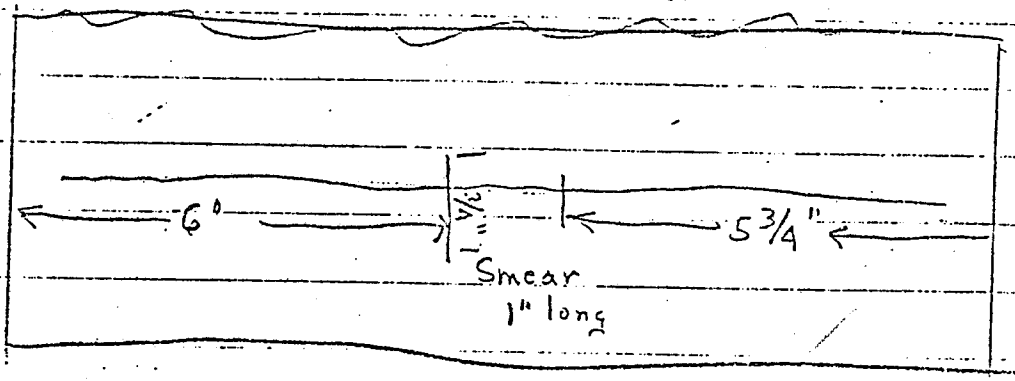
Result of Examination:

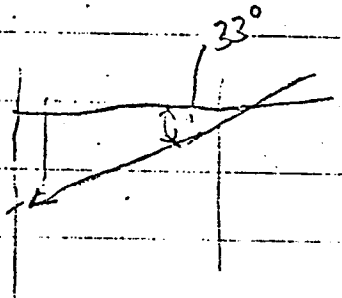
Specimens submitted for examination

E6

609 ~~Request for location and examination of mark on curbing at assassin's site~~ Piece of curbing.

Small foreign metal smears (see attached for location) were run spectrographically (Gavell-Ash) & found to be essentially lead with a trace of antimony - could be lead metal. No copper observed.


6"
1/2"
5 3/4"
Smear
1" long


33°

Antimony Distribution

Sb^{124} · 60 days = T ½

Sample	weight* mg.	Sb ppm	Deviation from mean D	D^2	Standard deviation
Q_1 A	7.16	643	− 54	2916	
B	4.2	636	− 61	3721	
C	1.79	750	+ 53	2809	
D	1.24	749	+ 52	2704	
E	3.54	715	+ 18	64	
Avg		697			17.47
Q_1 E**	1.16	749			
Q_2 A	39.75	521	− 13	169	
B	21.6	521	− 13	169	
C	5.84	578	+ 44	1936	
D	3.68	515	− 19	361	
Avg		534			29.65
$Q_{4,5}$					
S	3.22	555	− 6	36	
La	6.85	552	− 9	81	
Lb	21.15	532	− 29	841	
Lc	.825	606	+ 45	2025	
Avg		561			31.52
Q_9 A	1.92	690	+ 18	324	
B	2.07	662	− 14	196	
S	1.34	677	+ 1	1	
Avg		676			16.14

[illegible] (Cont'd) [illegible] Lead [illegible]

	Weight* Mg	Sb ppm	Dev. from Avg. D	D²	Standard Deviation
	10.65	543	- 19	361	
2)	9.70	532	+ 20	400	
2a	5.78	546	- 16	256	
2b	3.77	552	- 10	100	
2c	2.85	587	+ 25	625	
Avg		562			20.87

* Represents the weight after surface was scraped.

** Sample scraped for a second time and re-run.

$$\text{Standard Deviation} = \sqrt{\frac{\Sigma D^2}{n-1}}$$

	weight mg	ppm	D	D²	Standard Deviation
Q_1 a	9.9	9.19	-.21	.0441	
b	5.7	9.61	+.21	.0441	
Avg		9.40			.297
a	41.9	8.09	+.16	.026	
Q_2 b	25.2	9.15	+.22	.149	
c	42.57	7.71	-.71	.50	
d	3.89	7.24	-.69	.548	
Avg		7.93			.912
S	3.8	8.75	+.43	.230	
Q_3 L_a	13.0	8.33	-.14	.020	
L_b	21.5	8.13	-.34	.1156	
Avg		8.47			.428
d					
Q_4 a	2.3	9.21	-.04	.0016	
b	2.3	9.29	+.04	.0016	
		9.25			.0517
S	10.9	8.63	+.17	.03	
Q_5 L_a	8.5	8.40	-.06	.0036	
L_b	4.7	8.34	-.12	.0144	
		8.46			.155