

of the



FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D. C. 20535

To: FBI, Memphis

Re: MURKIN

Date: April 29, 1938  
FBI File No.  
Lab. No.

Specimens received 4/5/68

For a complete listing of the evidence, refer to  
Laboratory report  
Memphis Office.  
previously submitted to the

Results of examination:

The lead cores of the bullets in the five cartridges,  
Q4 through Q8, were found to vary in composition even though  
they were all from the same manufacturer.

The core portion of the Q64 bullet fragment from the  
victim's body is similar in composition to the lead core of  
the bullet in the cartridge designated Q4 and could have come  
from a source such as represented by the lead core of the  
bullet in Q4.

The bullet jacket portion of specimen Q64 is similar  
in composition to the metal of the jackets of the bullets in  
the Q4 through Q8 cartridges and could have come from the  
source represented by these bullets.

KING CASE  
Bullet Leads

C	27	
Fe	25	
Q64 = 1.56 mg	23	$S_i^+$ $Sb^-$ $Mg^+$ $Pb^+$ $Fe^+$ $Bi$ $Cu$ $Ag$ $Sn^+$
Q4 = 1.50	21	$S_i^+$ $Sb^-$ $Mg^+$ $Pb^+$ $Fe^+$ $Bi$ $Cu$ $Ag$
Q5 = 1.47	19	$S_i^+$ $Sb^-$ $Mg^+$ $Pb^+$ $Fe^+$ $Bi$ $Cu$ $Ag$
Fe	67	
Q6 = 1.49	65	$S_i^+$ $Sb^-$ $Mg^+$ $Pb^+$ $Fe^+$ $Bi$ $Cu$ $Ag$
Q7 = 1.54	63	$S_i^+$ $Sb^-$ $Mg^+$ $Pb^+$ $Fe^+$ $Bi$ $Cu$ $Ag$
Q8 = 1.52	61	$S_i^+$ $Sb^-$ $Mg^+$ $Pb^+$ $Fe^+$ $Bi$ $Cu$ $Ag$ $Sn^+$

April 19 1968

A

KING CASE  
COPPER JACKETS

C 29

Fe 27

Q64 (1.87 mg) 75  $B^{tr} Mg^{tr} Fe^{vst} Fe^{vs} Cu^+ Ag^+ Zn^-$

Q4 (1.80 mg) 73  $B^{tr} Mg^{tr} Si^{vst} Fe^{vs} Cu^+ Ag^+ Zn^-$

Q5 (1.81 mg) 71  $B^{tr} Mg^{tr} Si^{vst} Fe^{vs} Cu^+ Ag^+ Zn^-$

Fe 29

Q6 (1.79 mg) 67  $B^{tr} Mg^{tr} Si^{vst} Fe^{tr} Cu^+ Ag^+ Zn^-$

Q7 (1.81 mg) 65  $B^{tr} Mg^{tr} Si^{vst} Fe^{vst} Cu^+ Ag^+ Zn^-$

Q8 (1.80 mg) 63  $B^{tr} Mg^{tr} Si^{vst} Fe^{tr} Cu^+ Ag^+ Zn^-$

April 19 1968

B

C 73

Fe 71

Q64 69 = 1.565mg

Sb<sup>-</sup> As<sup>tr</sup> Mg<sup>tr</sup> Pb<sup>+</sup> Si<sup>+</sup> Fe<sup>+</sup> Bi<sup>+</sup> Sn<sup>+</sup>

Q4 67 = 1.545mg

Sb<sup>-</sup> As<sup>vit</sup> Mg<sup>tr</sup> Pb<sup>+</sup> Si<sup>+</sup> Fe<sup>+</sup> Bi<sup>-</sup>

Q64 65 = 1.670mg

Sb<sup>-</sup> As<sup>vit</sup> Mg<sup>tr</sup> Pb<sup>+</sup> Si<sup>+</sup> Fe<sup>+</sup> Bi<sup>-</sup>

April 22 1968

C



SAMPLE	wrl.	µg Sb	% Sb	
Q64A	9.86 mg	132	1.34	} 1.37%
Q64B	10.54	133	1.26	
Q64C	8.49	127	1.50	
				G = .12 Rel. G = 9%
Q4A	9.90	156	1.58	} 1.52%
Q4B	9.06	131	1.45	
Q4C	8.14	124	1.52	
				G = .07 Rel. G = 5%
Q5A	9.54	207	2.17	} 2.11%
Q5B	9.46	199	2.10	
Q5C	8.50	175	2.06	
				G = .06 Rel. G = 3%
Q6A	9.68	220	2.27	} 2.29%
Q6B	9.63	228	2.37	
Q6C	9.60	214	2.23	
				G = .07 Rel. G = 3%
Q7A	10.00	68	.68	} .71%
Q7B	8.42	62	.74	
Q7C	9.75	70	.72	
				G = .03 Rel. G = 4%
Q8A	9.60	110	1.15	} 1.06%
Q8B	9.30	95	1.02	
Q8C	9.18	92	1.00	
				G = .08 Rel. G = 8%

According to Remington - Peters, there are  
 no spec. soil for core lead.