

Aschkenasy, Ernst 3 48 50 108 114 115

Vol. VIII (Acoustics)  
Started 10/25/79  
Completed 10/26/79

Analysis of Recorded Sounds Relating to the A of JFK 3-127  
W-A-3-32 BBN 33-127

~~Analysis of Earwitness Reports 128-170~~

Acoustical Reconstruction 8/20/78 Dallas 5 16 22 24 25 43 45-46 47 48 50 51 80-109

Air temperatures at D. Plaza 5 9 ~~21~~

During assassination 21 26 27 171-174

During acoustical reconstruction 22

Results 100-102

Conclusions 102-109

112

114

131

135

144-

149

152

153

Acoustical nature of gunfire 51 52-61 131

Ammunition 56 97 98

Analysis of false alarms in correlation detection tests 126-127

Analysis of earwitness reports 128-170

Localization of sound 132-138 146 147 148 151

Origin of shots 139-141 142 143 147 151

Number of shots 141-143

Reports of trained observers 144-149 152-170

Conclusions 150-151

Aberdeen Proving Ground 135

Arther, Richard 187 190 ~~191~~ 191-196 197 206 207 209 216 220

Analysis of Norelko polygraphs 187-196

Findings and conclusions 191-196

Analysis of Ruby polygraphs 197-221

Report of Polygraph Panel 208-221

Accessories AF 225 389

Alexander, Wm. 200 201 211 212 216

Armored car 202

Atwood, Walter 206

American Polygraph Assn. 206 207

Algonquin Hotel (NYC) 207

American Society of Q. Docs. Examiners 226

Affidavit of support exhibit 314

Applications for 10 Boxes 328-329 355 356

Acoustical evidence 1-182

W-A Report 3-32

BBN Report 33-127

Earwitnesses 128-170

A reconstruction 80-109

Buda, Mario 4

Baymack, Steve 4

Barger, Dr. James 4 5 6 16 33

Bolt, Berenek and Newman 4 5 6 11 12 16 18 19 22 26 (Appt 33-127) 121 128

Basis principles and methods of acoustical analysis 6-7-10 15

Binary correlation coefficient 10 17 18 30 31 46 94 98 100 115 126

Bullet in supersonic flight 16 24 52 133 134

Bowman, J.J. 59N

Bullet mark on curb 98

Basteri, J. 139

Blakey, G. Robert 183-185 189N 199N 225N

Beavers, Dr. Wm. 200 204 207

Bradshaw, J.E. 202

Brantley, Ray 204

Bentley, Paul 220

Backyard photo 230

DeM print 230 237 244 335 336

Writing on back of print 230 237 244 335 336

Cornwell, Gary 3v 171 175 184 185

"Coincidence window" 10 17 18

Carillon bell 11 110 111 112

Comparison of impulses & predicted echoes 26-32

Correction of time-delay measurements 26-27

COLARUOTOLO, Joseph 36

~~Confidence of ...~~ 47

Clocks, DP 71

Curry, Jesse 73

Chi-square test 104

Correlation coefficient 10 17 18 30 31 46 94 95 100 115 126

Computer signal processing 117-121

CIA 189 190 191 192 193 194 195

Critics of the Warren Com. <sup>131 139 141</sup> 189 225 389

Castro, Fidel 203 231

~~Cuba~~ 203

Cartons 248



Echo-delay times 7 8 9 10 11 15 19 20 21 22 23 24 25 26 27 28 114

Echoes 6 7 8 16 17 18 19 21 43 56 132 135 137 138 150

Echoes, distribution of relative intensities of 11-12

Carrotiness testing 16 34 35 128-170

Echo sequences prediction 18-19

Echo-producing objects 19 22 23 24 26 48 59 114

Echo-prediction accuracy 21-26

Echo paths 22 24

Echo patterns 45 46 48 49 50 54 83 84 85-88 89 94 95 96 97 98 100 102 114 126  
127

Environmental noise 55 56

Electromagnetic and Acoustic Scattering by Single Surfaces 59 n

Employment applications: exhibit 353

FBI 9 71 140 154 200 202 206 219 220 226 232 248 249

~~Findings of 60-A-10~~

Filter studies 42 43 51

False alarms 47 95 96 100 102 104 105 106 115 126-127

~~Findings of 60-A-51~~

Filtered wave form data 65-69

Front-back reversal 135 150

Firearms Panel 183

Fowler, Clayton 200 204 210 211

Fingerprint evidence 223 226 (Items examined 228 230 232) 233

(prints & cards 247-249)

Fair Play 4 Cuba Com. 228 230 233 234 236 238  
226

(exhibits 342-344 385-387)

337-339

Ghazati, Dr. Ali 4  
 Grassy Knoll Shot 4 5 6 9 10 12 15 16 17 18 21 22 32 46 48 49 50 98 (4)  
 Gunshot Rounds 5 6 8 11 12 14 15 16 26 31 32 35 41 42 44 45 51 63 70 77  
 Green, D.M. 35w 100 128-170  
 Grassy Knoll shot (cont'd) 114-116 130 150 151

78  
 80  
 84  
 95  
 122-125  
 139  
 140

Garinther, Dr. George 135  
 Garinther - Moreland Study 148  
 Gonzales, Mr. D. 184

Heterodyne tone 11 113

Humidity effect 21

Hyatt Regency Bldg 99 138

Hughes, Robert 182 N

Hughes film 102 N 103 107 109

Hartmann, Dr. Wm. 146

Herdon, <sup>FOF</sup> Spec Agent Bell 200 201 204 205 207 208 209 210 211 212 213 214

Holman, E. L. 200 215

Harrison, Blackie 204 216

Hoover, J. Elmer 219 217

Handwriting evidence 223 225 226 227 (Items Examined 228-232)

Hidell 226 228 230 (procedures 232)

231 (exhibits 251-388)

233  
236 238 246 274-275

Handwriting and Fingerprint Panel 223-232

Conclusions 233-249

Exhibits 251-388

Hunt, letter to, 231 235-236 237 245 246 357

Hotel register exhibit 348

Handwritten speech 362-370



Impulse patterns 43 44 45 46 50 70 73 75 83 89 90-93 94 95 100 114 126 127  
Uniqueness 75  
Time-span 75-76  
Shape 77  
Amplitude 78-79 83 89

Non flights 184  
INBAU, Fred 193 209 214

Jigsaw analysis 146  
Jones, Charles 197 206

Kennedy, Pres. John F. 5 34 41 189 193 194 195 196

KALIKOV, David 36

Kirk, Sgt. Cecil 183 184

KGB 189 190 194 195 196

Klein, Kenneth 192

Klein's mail order 230 234 237 246 249 331-334

Hiebeler, J. Wesley 141

Horton Correctional Facility 183

Lewis, E. E. 184

Lie Detection and Criminal Interrogation 193 209

Little Hymn 202

Letter to "Mr. Hunt" 231 235-236 237 245 246 357

Library card 232 376

Letter renouncing citizenship 293

Letter to The Worker 324-325

Letter to Leslie Welding Co. 327

Letter to Communist Party 345-347

Letter to Russian Embassy exhibit 351-352 358 360-361

Mc Donnell, Sgt. Eugene 4

Mc Gee, Lt. Frank 4

Motorcycle microphone 4 5 9 10 12

Motorcycle location 5 9 10 43 45 47 49 50 58 89 96 97 103 104 107 108 109 114 116

Motorcycle speed 5 10 26 105 108

Meterite examined by ~~Walter Aschkenazy~~ 5

Map of Dealey Plaza 5 20 22 25 29

Muscle-blast (echoes) 6 7 8 10 11 12 14 16 18 19 21 22 24 25 26 28 30 31 42

Microphone locations at D. Plaza 17 18 22 25 26 59 80 81 83 84 43

Motorcycle wind shield 30-31 89 50 97 52 102 53 103 56 104 57 108 58 114

Mc Mahon, Nancy 36

Mannlicher-Carcano rifle 45 56 57 84 98 132 183-185 226 248 60 77

Mc Chain, DP officer H.B. 51

M-1 rifle 57 78 97 114

Mc Fadden, Dr. Dennis 144 146 147 152 130

Mitchell, Daniel 171 175 132

Miller, B.L. 184 133 134 135

Masson, Joe 184 137 148 150

Malinowski, Benjamin 197 206-207

McWillie, Lewis 204

McNally, Joseph 223 226 228 233-237

Meagher, Sylvia 225 389

Mozley, Alvin 229 234 245 294

Marine Corps documents exhibits 251-264 275-277 380

New York Police Dept. 4

Norma amms 98

National Archives 183 207 228-232 233

Nosenko, Yuri 187-196

Analysis of polygraph tests 187-196

National Training Center on Polygraph Science 187 190

O'Brien, Sgt. John 4

Overhead Signboards 100 106N

Oswald, Lee Harry 183 184 189 190 193 194 195 196 201 202 203 204 205

Olivier, Odette 200

Odis, Silvia 225

Oswald, Marina 228 229 231 233 236 238 315 316-323  
374-375

Oswald, June Lee 229 315

206  
210  
215  
216  
217  
218  
225  
~~226~~  
226  
227-232  
233  
234  
235  
237  
238  
240-242  
243  
244  
245  
246  
247

Probabilities estimated 4 5 10 21 32 47-48 107 116 183 185N

Photographs of Darling Plaza 5

Plate 16 98 148 151

Placement of gun on Grassy Knoll 16

Placement of microphone on Elm St. 16-18

Prediction of 11/22/63 eclipses 126

Post office Annex 59 77 99 137

Paynter, David 183

Polygraph Panel 190 197 199 206 207 208

Polygraph examination described 190-191 199-200

Perce, Lt. Rio Ann 201 202 212

Parkland Hospital 204

Purtell, David 223 226 227 228 233 237-239

Popkin, Richard 225 389

Raine, Ruth 230 330

Photographs of Oswald 232 382

paper bags 248

Passport exhibit 265-274

Political notes on Holland-America Steamship 295-309

Passport application 340-341

Regatta & W.A. Analysis 101

Rifle 16 45 50 52 57 84 98 133 135 137 148 151

Records Building 19 23 60

Reflecting pool 19 23

Robison, Scott 33

Rhyme, Theodore 36

Rife minimum firing time 105 183-185

Radio transmission of graphic signals 122-125

Ruby, Jack 190 197-221 228 231 233 236 359 372-373  
Analysis of polygraph test 197-221

Ray, James Earl 190 206N

Reid, John 193 209 214

Ranlin, J. Lee 219

Russian script exhibit 315

Russian censored note exhibit 377



Stuck microphone 5 6 11 12 15 41 55 62 75 112

Sixth-floor windows 5 135 148

Stockade fence 10 16 26 29 46 50 98

Shock wave 16 24 42 43 49 50 52 53 59 58 77 78 97 100 130 132 133 134 135 137  
150

Speed of sound 21 22 52 99

Schmidt, Edward 33

SLEDJESKI, Leo 36

Shots 42 44 46 47 49 50 63 65 80 101-102 107 108 183

Number 42 46 49 65 107

Location ~~of~~ (origin) 42 45 46

Time span between 43 44 46 49 50 70 102 ~~107~~ 183

Screening tests 44-45 70-79 80

Simultaneous transmissions 55 56

Senior, T.B.A. 59N

Sound-scattering objects 60-61

Spectrographic acoustical analysis 65

Stirring 110 112

Six Six D 131 139

Silencers 148-149

Smith, D.M. 184

Scientific Lie Detection, Inc. 187 190

Speater, Arlen 200 204 205 211 216 217

Senator, George 201

Scott, Charles 223 226 227 243-247

Scalice, Vincent 223 227 228 233 247-249

Selective Service System exhibit 278-279-280

Self-questionnaire exhibit 310-313

Salary receipts <sup>235</sup> exhibit 371

Soc. Sec. card exhibit 381

Texas SBD	5	10	21	28	46	49	56	58	84	98	100	105	130	135	137	139	140	141	144
Topographical survey map	5	19																	147
Test shots: sequence	83	146	147	148															148
Thompson, Joziah	131	139	141																150
Telescopic sight	184																		<del>152</del>
Tonahill, Joe	200	212	216																157
Tippit, J.D.	203	204																	183
Two-Oswald theory	225																		231
<u>The second Oswald</u>	225	389																	235
																			371

Ualenghi, P.L.E. 59N  
 Undated note (Walker shooting) 232 378-379

Voice transmissions 110 112-113

Visa application (Cuban Cons Mexico) exhibit 349-350

Weiss, Mark 3 48 50N 108 114 115 121

Waveforms 7 8 12-14 24 25 26 30 31 42 56 57 62-65 65-69 75 77 78 114 130  
Graph 8

Wind effect 21 credits, Dates 11/22/63 175-182

Wolf, Jared 33

Western Cash Co Ammo 56 98

Witnesses present in D. Ploga 139

Warren Report 140 141N 225 389

Warren Com. 141 189 199 200 202 204 205 206 207 208 215 216 225 226

Wightman, Dr. Redovich 144 146 147 152

Watriss, Whitney 189N 199N 225N

Warren, Earl 200

Woods, FBI Spec. Agent James 200

Walt St J 202 210

Walker shooting 232 378-379

Zaynuder film 16 44 46 75

frame 312 — 16

313 — 46 75 98

160 — 46 99

210 — 75

200 — 98

171 — 105

Zaynuder, Abraham 141