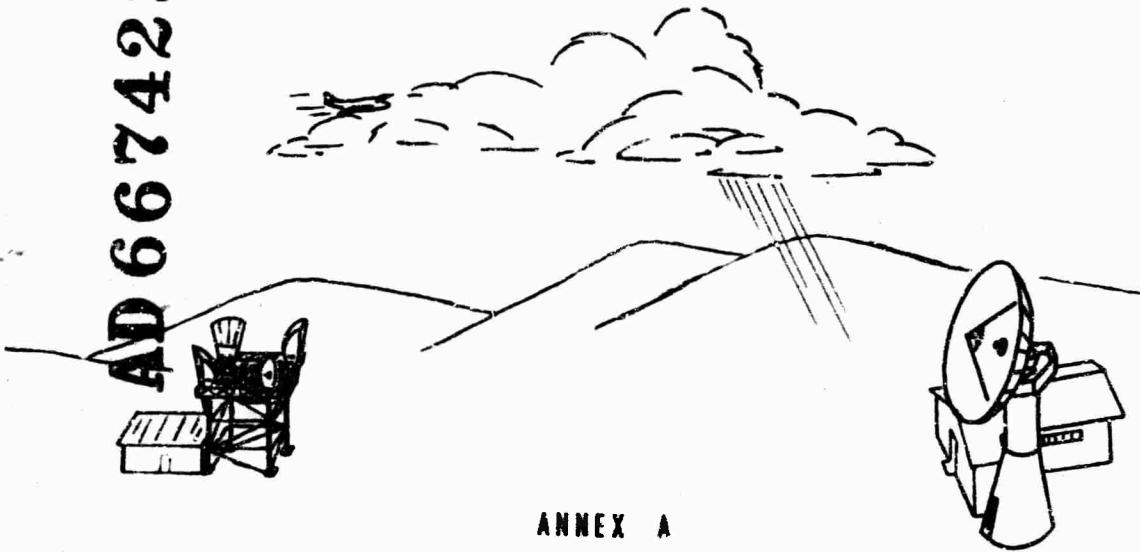


11
FEDERAL COMMUNICATIONS COMMISSION...U.S. AIR FORCE

POPSI PROJECT

AD 667423



ANNEX A
REPORT NO. R-6801

By
Roger B. Carey
Daniel B. Hutton
Gary S. Kalagian



RESEARCH DIVISION
OFFICE OF THE CHIEF ENGINEER
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554
March 15, 1968

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ANNEX A

REPORT NO. R-6801

March 15, 1968

FCC/USAF POPSI PROJECT

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Washington, D. C.

ANNEX A

Path Configuration and Sample Population

Table 1	NAFEC
Table 2	Wildwood
Table 3	Wallops Island, Virginia

NAFEC

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		No of On-Path Samples	No of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
5/13/66 to 8/16/66	1°	6°	2°	0°	1046	1050
				1/2	277	374
				1	273	369
				2	277	372
				3	276	371
				4	274	371
				5	274	369
				6	268	373
				7	268	366
				8	264	366
5/13/66 to 6/7/66				9	267	368
				10	107	91
			3°	1/2	107	91
				1	107	91
				2	107	91
				3	106	88
				4	106	88
				5	106	88
				6	106	86
				7	105	86
				8	105	86
				9	105	86
				10	107	91
			6°	1/2	106	90
				1	107	92
				2	107	93
				3	107	92
				4	107	92
				5	107	91
				6	107	92
			7	108	92	

TABLE 1

Table 1 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration	No of			
	On-Path Elev.	Az.		Or-Path Samples	Off-Path Samples		
5/13/66 to 6/7/66	1°	6°	2°	6°	8	108	92
					9	107	92
					10	107	92
					1/2	140	245
					1	143	244
					2	143	248
					3	146	245
					4	147	244
					5	146	241
					6	147	238
6/7/66 to 8/16/66				9°	7	147	232
					8	147	235
					9	146	243
					10	145	246
					1/2	146	252
					1	149	254
					2	149	249
					3	148	248
					4	149	249
					5	149	240
8/19/66 to 11/25/66	1°	3°	2°	0°	6	149	240
					7	149	241
					8	149	240
					9	150	247
					10	150	251
					1/2	522	736
					2	149	200
					4	142	203
					6	141	202
					8	135	196
					10	135	198
					12	139	200
					14	136	201

Table 1 (cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration	No of On-Path Samples	No of Off-Path Samples					
	On-Path Elev.	Az.				Off-Path Elev.	Az.			
8/19/66 to 11/25/66	1°	3°	0°	16	138	203				
				18	135	201				
				20	140	201				
				12°	1/2	113	165			
					2	116	168			
				4	118	170				
				6	118	170				
				8	117	170				
				10	117	170				
				12	117	168				
				14	117	169				
				16	117	170				
				18	116	169				
				20	115	170				
				1/24/67 to 2/16/67	1°	3°	0°	1/2	117	169
								2	120	172
								4	120	172
								6	121	173
8	120	173								
10	122	174								
12	122	172								
14	123	172								
16	123	174								
18	123	176								
20	123	175								
1/4	307	461								
3	140	128								
6	134	124								
9	141	127								
12	141	128								
15	142	128								
18	141	126								

Table 1 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration	No of On-Path Samples	No of Off-Path Samples		
	On-Path Elev.	Az.				Off-Path Elev.	Az.
1/24/67 to 2/16/67	1°	3°	2°	0°	21	149	129
					24	149	129
					27	148	130
					30	154	130
		3°			1/4	123	108
					3	126	108
					6	126	110
					9	126	108
					12	120	107
					15	126	109
					18	126	110
					21	128	110
					24	130	108
					27	131	109
					30	130	108
			18°		1/4	134	109
					3	135	111
					6	135	111
					9	135	111
					12	135	111
					15	135	110
					18	134	111
					21	133	111
					24	134	111
					27	133	111
					30	134	111

WILDWOOD

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		Number of On-Path Samples	Number of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
2/16/66 to 5/13/66	0°	3°	1°	0°	1191	1449
				1/2	356	438
				1	341	420
				2	328	413
				3	332	412
				4	327	410
				5	326	401
				6	323	399
				7	313	394
				8	316	392
				9	319	393
				10	257	305
				1/2	261	309
				1	260	310
				2	266	318
				3	266	317
				4	265	317
				5	267	320
				6	267	320
				7	261	316
			8	264	319	
			9	268	321	
			10	262	307	
			1/2	258	307	
			1	260	310	
			2	261	310	
			3	259	309	
			4	259	312	
			5	260	314	
			6	260	315	
			7	254	311	
			8	256	312	
			9	260	314	
			10			

TABLE 2

Table 2 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration	Number of On-Path Samples	Number of Off-Path Samples	
	On-Path Elev.	Az.				Off-Path Elev.
5/13/66 to 6/7/66	0°	6°	1°	0°	1/2	673
					1	186
					2	182
					3	179
					4	183
					5	180
					6	180
					7	174
					8	182
					9	173
					10	170
				3°	1/2	158
					1	158
					2	158
					3	158
					4	159
					5	158
					6	157
					7	156
					8	153
				9	156	
				10	154	
			6°	1/2	159	
				1	159	
				2	160	
				3	160	
				4	160	
				5	160	
				6	160	
				7	162	
				8	161	
				9	162	
				10	162	

Table 2 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration	Number of On-Path Samples	Number of Off-Path Samples	
	On-Path Elev.	Az.				Off-Path Elev.
6/7/66 to 8/17/66	0°	6°	2°	0°	1/2	1374
					1	246
					2	239
					3	235
					4	235
					5	236
					6	234
					7	230
					8	223
					9	229
					10	225
				9°	1/2	221
					1	222
					2	221
					3	218
					4	223
					5	222
					6	221
					7	223
					8	220
				9	220	
				10	219	
			12°	1/2	219	
				1	219	
				2	221	
				3	222	
				4	221	
				5	224	
				6	222	
				7	220	
				8	225	
				9	223	
				10	225	

Table 2 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		Number of On-Path Samples	Number of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
8/19/66 to 12/14/66	0°	3°	2°	0°	980	1130
			1/2		246	291
			2		230	289
			4		222	290
			6		221	292
			8		216	288
			10		229	286
			12		223	287
			14		225	293
			16		232	289
			18		230	291
			20		207	238
		12°		1/2	213	245
				2	212	243
				4	205	248
				6	215	252
				8	208	250
				10	214	252
				12	210	249
				14	209	249
				16	206	250
				18	207	249
				20	212	250
		18°		1/2	216	252
				2	219	247
				4	218	251
				6	219	258
				8	218	259
				10	217	258
				12	217	259
				14	216	259
				16	221	255
			18	219	258	
			20			

Table 2 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration	Number of On-Path Samples	Number of Off-Path Samples
	On-Path Elev.	Az.			
12/14/66 to 1/16/67	0	3°	0°	1/2	571
				2	156
				4	154
				6	151
				8	150
				10	150
				12	154
				14	151
				16	152
				18	154
				20	152
			12°	1/2	134
				2	133
				4	134
				6	135
				8	138
				10	138
				12	138
				14	137
				16	136
			18	137	
			20	136	
		18°	1/2	137	
			2	135	
			4	138	
			6	138	
			8	138	
			10	138	
			12	137	
			14	137	
			16	138	
			18	138	
			20	139	

WALLOPS ISLAND

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		Number of On-Path Samples	Number of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
1/24/67 to 2/16/67	0°	3°	1/2°	0°	316	643
				1/4	73	177
				3	80	176
				6	86	179
				9	89	179
				12	90	179
				15	86	178
				18	90	176
				21	90	175
				24	90	175
				27	90	175
				30	89	174
		3°		1/4	75	149
				3	77	150
				6	76	150
				9	76	153
				12	77	152
				15	76	155
				18	76	154
				21	77	153
				24	78	153
				27	78	154
				30	78	152
		18°		1/4	78	157
				3	78	155
				6	78	155
				9	78	156
				12	76	157
				15	77	156
				18	77	157
			21	76	155	
			24	76	156	
			27	76	155	
			30	76	153	

TABLE 3

ANNEX A

Probability Distributions

<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-1	NAFEC	On-Path	0	1/2,6,12	5/13/66-2/16/67
A-2	NAFEC	On	0	1,7,15	5/13/66-2/16/67
A-3	NAFEC	On	0	2,8,16	5/13/66-2/16/67
A-4	NAFEC	On	0	3,9,18	5/13/66-2/16/67
A-5	NAFEC	On	0	4,14	5/13/66-2/16/67
A-6	NAFEC	On	0	1/2,1,2,10	5/13/66-8/16/66
A-7	NAFEC	On	0	3,6,8	5/13/66-8/16/66
A-8	NAFEC	On	0	4,9	5/13/66-8/16/66
A-9	NAFEC	On	0	5,7	5/13/66-8/16/66
A-10	NAFEC	On	3	1,6	5/13/66-6/7/66
A-11	NAFEC	On	3	2,7	5/13/66-6/7/66
A-12	NAFEC	On	3	3,8	5/13/66-6/7/66
A-13	NAFEC	On	3	4,9	5/13/66-6/7/66
A-14	NAFEC	On	6	1,9	5/13/66-6/7/66
A-15	NAFEC	On	6	2,8	5/13/66-6/7/66
A-16	NAFEC	On	6	3	5/13/66-6/7/66
A-17	NAFEC	On	6	4,5	5/13/66-6/7/66
A-18	NAFEC	On	6	6	5/13/66-6/7/66
A-19	NAFEC	On	9	1,6	6/7/66-8/16/66
A-20	NAFEC	On	9	2,4	6/7/66-8/16/66
A-21	NAFEC	On	9	3,9	6/7/66-8/16/66
A-22	NAFEC	On	9	7	6/7/66-8/16/66
A-23	NAFEC	On	9	8	6/7/66-8/16/66
A-24	NAFEC	On	12	1,2,3	6/7/66-8/16/66
A-25	NAFEC	On	12	4,10	6/7/66-8/16/66
A-26	NAFEC	On	12	5,7,8	6/7/66-8/16/66
A-27	NAFEC	On	0	1/2,10,20	8/19/66-11/25/66
A-28	NAFEC	On	0	2,8,16	8/19/66-11/25/66
A-29	NAFEC	On	0	4,12,18	8/19/66-11/25/66
A-30	NAFEC	On	0	6,14	8/19/66-11/25/66
A-31	NAFEC	On	12	2,12,16	8/19/66-11/25/66
A-32	NAFEC	On	12	6,14	8/19/66-11/25/66
A-33	NAFEC	On	12	8	8/19/66-11/25/66
A-34	NAFEC	On	12	10,20	8/19/66-11/25/66
A-35	NAFEC	On	18	2,10	8/19/66-11/25/66
A-36	NAFEC	On	18	4,16	8/19/66-11/25/66

Annex A (cont'd)

<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-37	NAFEC	On-Path	18	6,14	8/19/66-11/25/66
A-38	NAFEC	On	18	8,20	8/19/66-11/25/66
A-39	NAFEC	On	18	12	8/19/66-11/25/66
A-40	NAFEC	On	0	1/4,15,24	1/24/67-2/16/67
A-41	NAFEC	On	0	3,12,18	1/24/67-2/16/67
A-42	NAFEC	On	0	6,21	1/24/67-2/16/67
A-43	NAFEC	On	3	3,6	1/24/67-2/16/67
A-44	NAFEC	On	3	9,12,24	1/24/67-2/16/67
A-45	NAFEC	On	3	18,21,27	1/24/67-2/16/67
A-46	NAFEC	On	18	3,27	1/24/67-2/16/67
A-47	NAFEC	On	18	6,21	1/24/67-2/16/67
A-48	NAFEC	On	18	9,12	1/24/67-2/16/67
A-49	NAFEC	On	18	18,24,30	1/24/67-2/16/67
A-50	NAFEC	Off-Path	0	1,7	5/13/66-8/16/66
A-51	NAFEC	Off	0	2,8	5/13/66-8/16/66
A-52	NAFEC	Off	0	3,9	5/13/66-8/16/66
A-53	NAFEC	Off	0	4,6	5/13/66-8/16/66
A-54	NAFEC	Off	3	1/2,5,10	5/13/66-6/7/66
A-55	NAFEC	Off	3	1,7	5/13/66-6/7/66
A-56	NAFEC	Off	3	2,6	5/13/66-6/7/66
A-57	NAFEC	Off	3	3,9	5/13/66-6/7/66
A-58	NAFEC	Off	3	4,8	5/13/66-6/7/66
A-59	NAFEC	Off	6	1/2,5,10	5/13/66-6/7/66
A-60	NAFEC	Off	6	1,7	5/13/66-6/7/66
A-61	NAFEC	Off	6	2,8	5/13/66-6/7/66
A-62	NAFEC	Off	6	3,9	5/13/66-6/7/66
A-63	NAFEC	Off	6	4,6	5/13/66-6/7/66
A-64	NAFEC	Off	9	5,10	6/7/66-8/16/66
A-65	NAFEC	Off	12	5,8	6/7/66-8/16/66
A-66	NAFEC	Off	12	7	6/7/66-8/16/66
A-67	NAFEC	Off	12	9	6/7/66-8/16/66
A-68	NAFEC	Off	0	1/2,10	8/19/66-11/25/66
A-69	NAFEC	Off	0	2,16	8/19/66-11/25/66
A-70	NAFEC	Off	0	4,8	8/19/66-11/25/66
A-71	NAFEC	Off	0	6,12	8/19/66-11/25/66
A-72	NAFEC	Off	0	14	8/19/66-11/25/66
A-73	NAFEC	Off	0	18,20	8/19/66-11/25/66
A-74	NAFEC	Off	12	1/2,10	8/19/66-11/25/66
A-75	NAFEC	Off	12	2,12	8/19/66-11/25/66
A-76	NAFEC	Off	12	4,20	8/19/66-11/25/66
A-77	NAFEC	Off	12	6,16	8/19/66-11/25/66
A-78	NAFEC	Off	12	8,14,18	8/19/66-11/25/66
A-79	NAFEC	Off	18	1/2,6,10	8/19/66-11/25/66
A-80	NAFEC	Off	18	2,12,18	8/19/66-11/25/66
A-81	NAFEC	Off	18	4,20	8/19/66-11/25/66
A-82	NAFEC	Off	18	8,14,16	8/19/66-11/25/66
A-83	NAFEC	Off	3	1/4,9	1/24/67-2/16/67
A-84	NAFEC	Off	3	3,6	1/24/67-2/16/67

Annex A (cont'd)

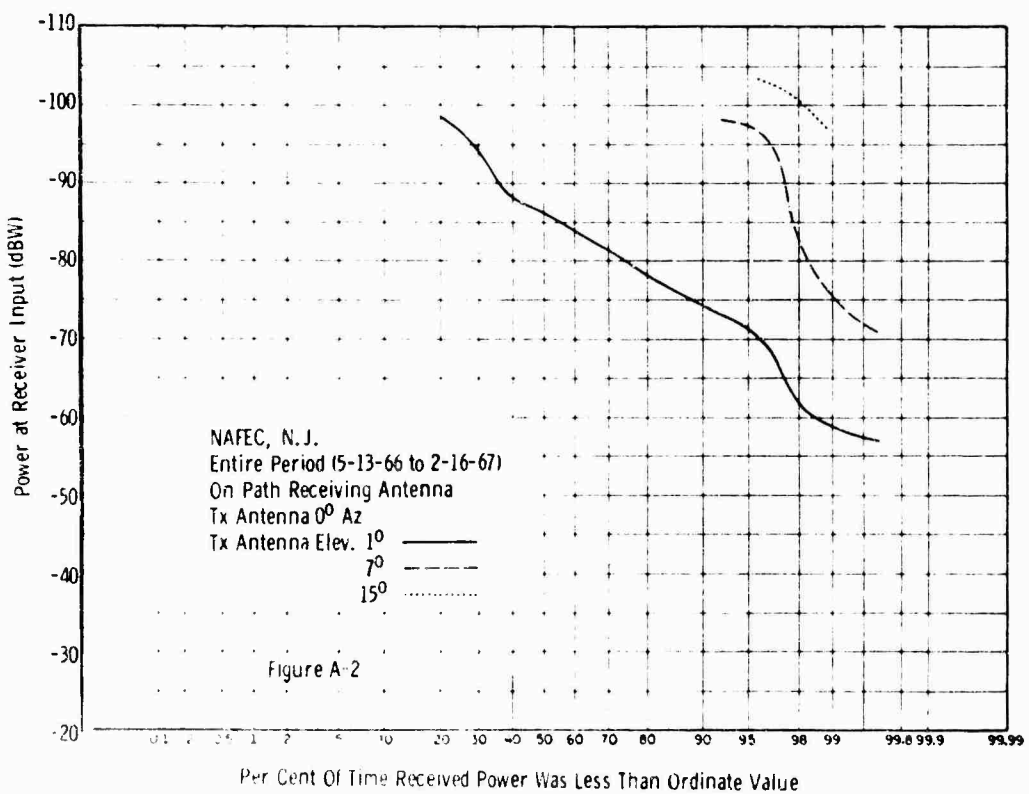
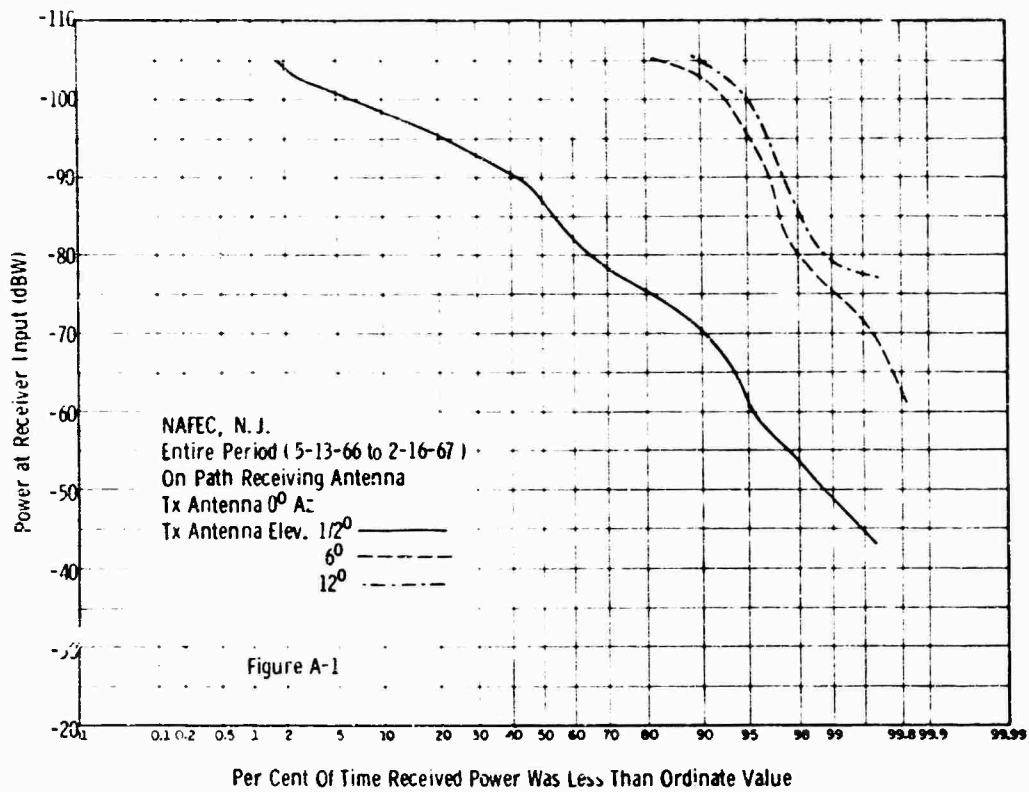
<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-85	Wildwood	On-Path	0	1/2,6,7	2/16/66-5/13/66
A-86	Wildwood	On	0	1/2,8	2/16/66-5/13/66
A-87	Wildwood	On	0	1/2,9	2/16/66-5/13/66
A-88	Wildwood	On	3	1/2,1,2	2/16/66-5/13/66
A-89	Wildwood	On	3	3,4,5	2/16/66-5/13/66
A-90	Wildwood	On	3	6,7	2/16/66-5/13/66
A-91	Wildwood	On	3	8	2/16/66-5/13/66
A-92	Wildwood	On	6	1/2,1,2	2/16/66-5/13/66
A-93	Wildwood	On	6	3,4	2/16/66-5/13/66
A-94	Wildwood	On	6	5,6	2/16/66-5/13/66
A-95	Wildwood	On	6	7,8	2/16/66-5/13/66
A-96	Wildwood	On	6	9	2/16/66-5/13/66
A-97	Wildwood	On	0	1/2,6,7	5/13/66-6/7/66
A-98	Wildwood	On	0	1/2,8	5/13/66-6/7/66
A-99	Wildwood	On	0	1/2,9	5/13/66-6/7/66
A-100	Wildwood	On	3	1/2,1,2	5/13/66-6/7/66
A-101	Wildwood	On	3	3	5/13/66-6/7/66
A-102	Wildwood	On	3	4,5	5/13/66-6/7/66
A-103	Wildwood	On	3	6,7	5/13/66-6/7/66
A-104	Wildwood	On	3	8	5/13/66-6/7/66
A-105	Wildwood	On	6	1/2,1,2	5/13/66-6/7/66
A-106	Wildwood	On	6	3	5/13/66-6/7/66
A-107	Wildwood	On	6	4,5	5/13/66-6/7/66
A-108	Wildwood	On	6	6,7	5/13/66-6/7/66
A-109	Wildwood	On	6	8,9	5/13/66-6/7/66
A-110	Wildwood	On	0	1/2,6,7	6/7/66-8/17/66
A-111	Wildwood	On	0	1/2,8	6/7/66-8/17/66
A-112	Wildwood	On	0	1/2,9	6/7/66-8/17/66
A-113	Wildwood	On	9	1/2,1	6/7/66-8/17/66
A-114	Wildwood	On	9	2	6/7/66-8/17/66
A-115	Wildwood	On	9	3,4	6/7/66-8/17/66
A-116	Wildwood	On	9	6,9	6/7/66-8/17/66
A-117	Wildwood	On	9	7,8	6/7/66-8/17/66
A-118	Wildwood	On	12	1,2,3	6/7/66-8/17/66
A-119	Wildwood	On	12	4,5	6/7/66-8/17/66
A-120	Wildwood	On	12	6	6/7/66-8/17/66
A-121	Wildwood	On	12	7	6/7/66-8/17/66
A-122	Wildwood	On	12	8,9	6/7/66-8/17/66
A-123	Wildwood	On	0	1/2,8,10	8/19/66-12/14/66
A-124	Wildwood	On	0	1/2,12	8/19/66-12/14/66
A-125	Wildwood	On	0	1/2,14	8/19/66-12/14/66
A-126	Wildwood	On	0	1/2,16,18	8/19/66-12/14/66
A-127	Wildwood	On	12	2,4,18	8/19/66-12/14/66
A-128	Wildwood	On	12	6,10	8/19/66-12/14/66
A-129	Wildwood	On	12	8,14	8/19/66-12/14/66
A-130	Wildwood	On	12	12,16	8/19/66-12/14/66
A-131	Wildwood	On	18	4,16	8/19/66-12/14/66
A-132	Wildwood	On	18	6	8/19/66-12/14/66
A-133	Wildwood	On	18	8,12	8/19/66-12/14/66
A-134	Wildwood	On	18	10,18	8/19/66-12/14/66
A-135	Wildwood	On	18	14	8/19/66-12/14/66

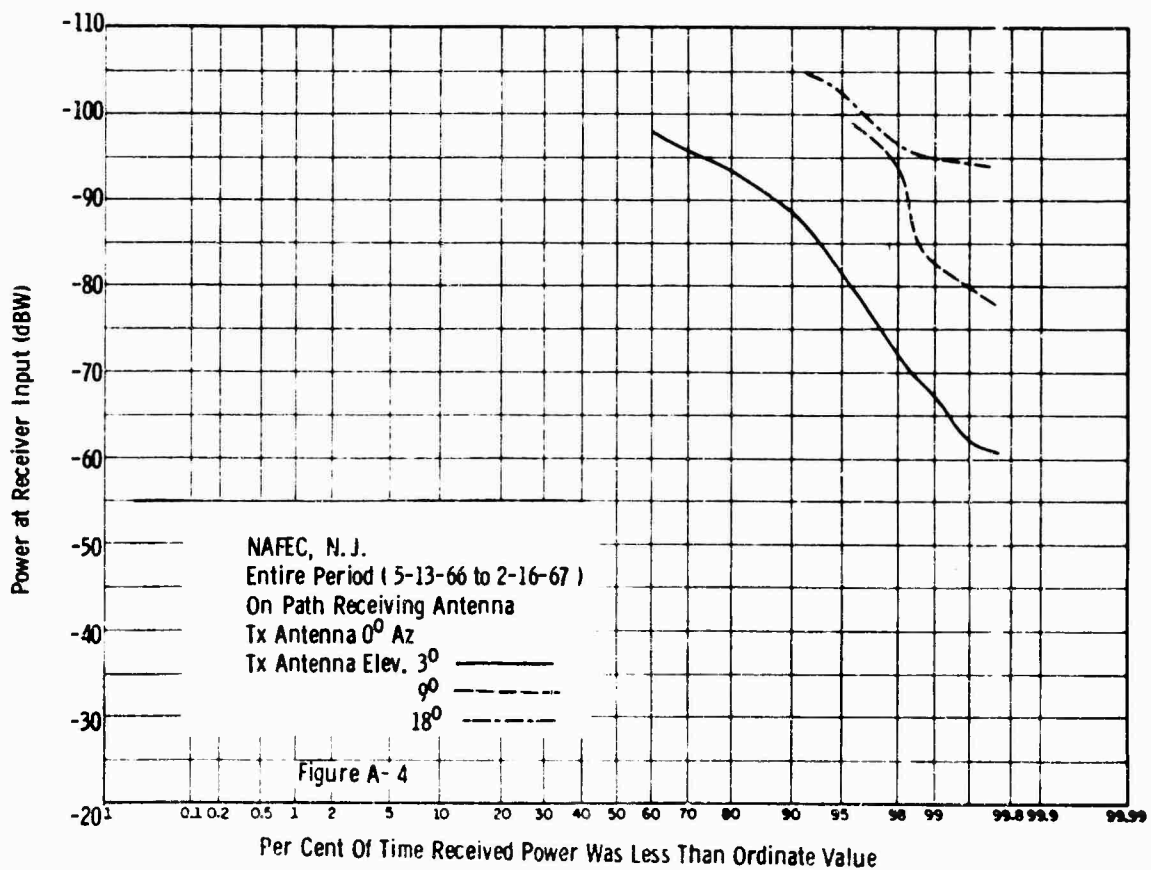
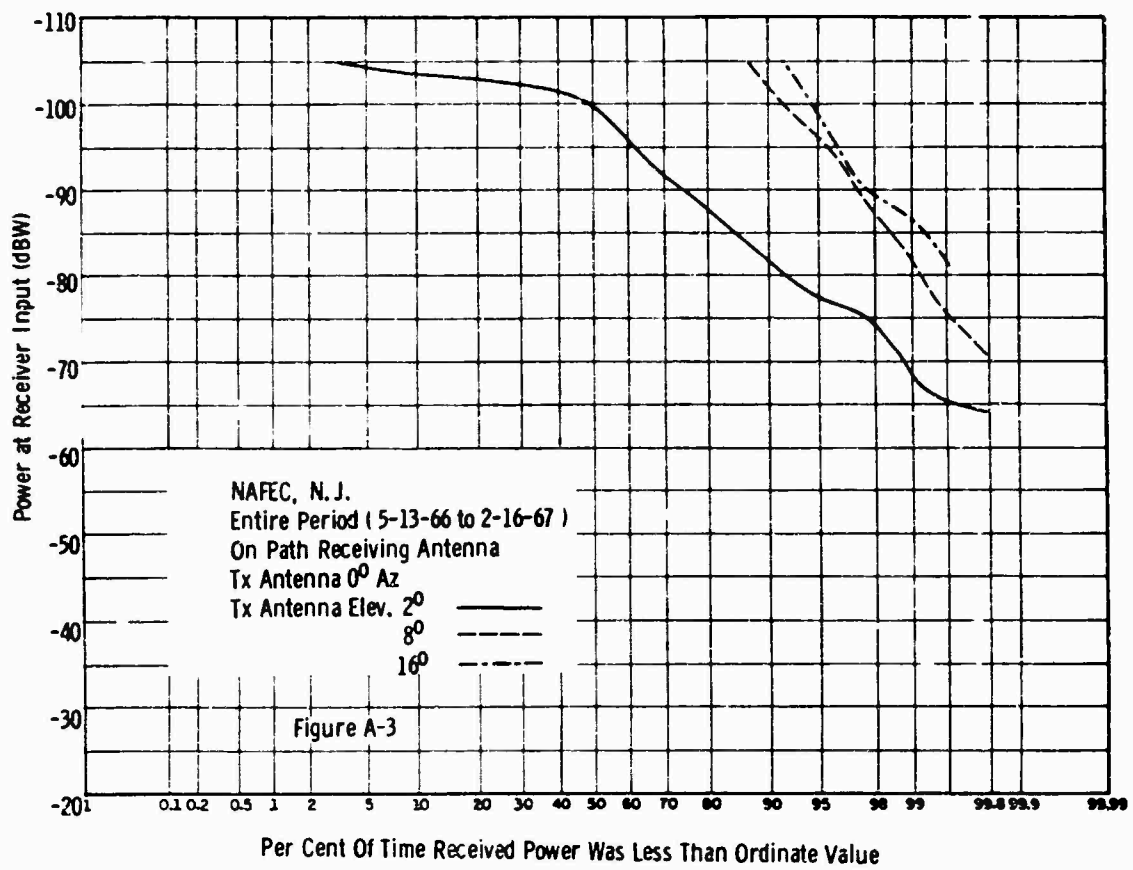
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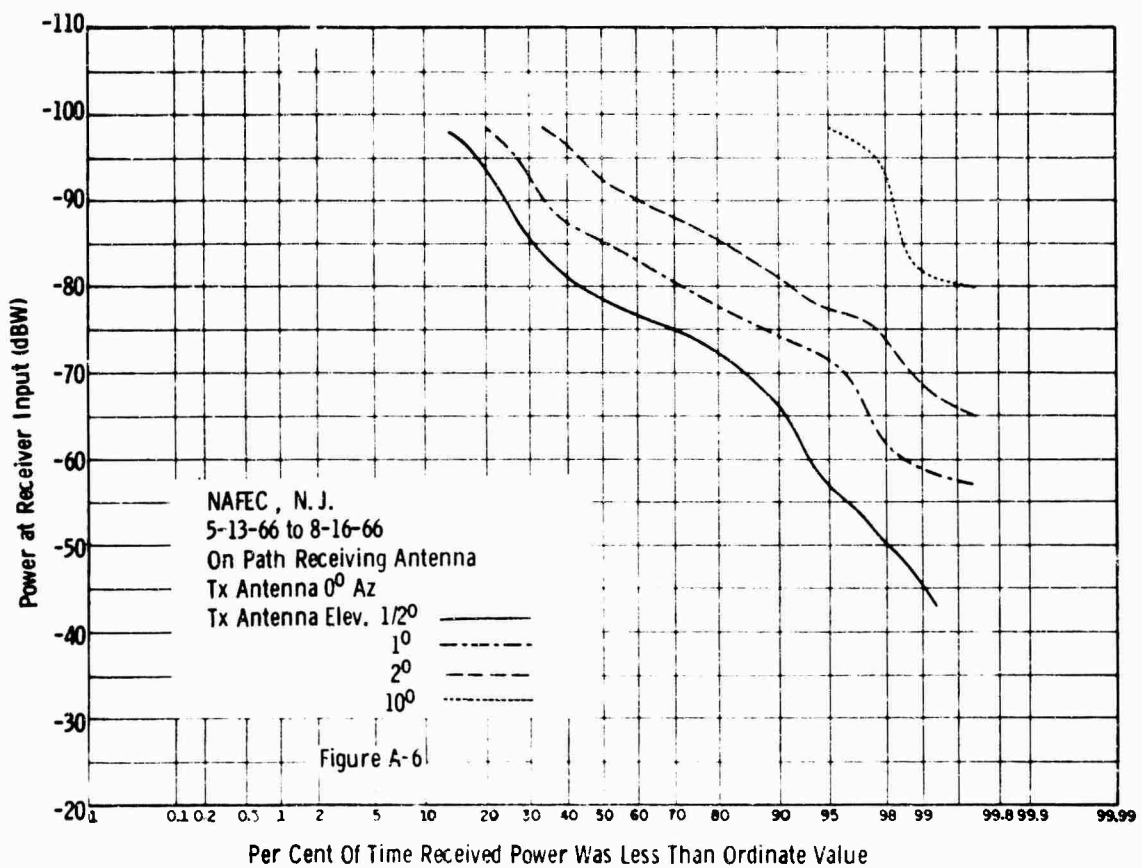
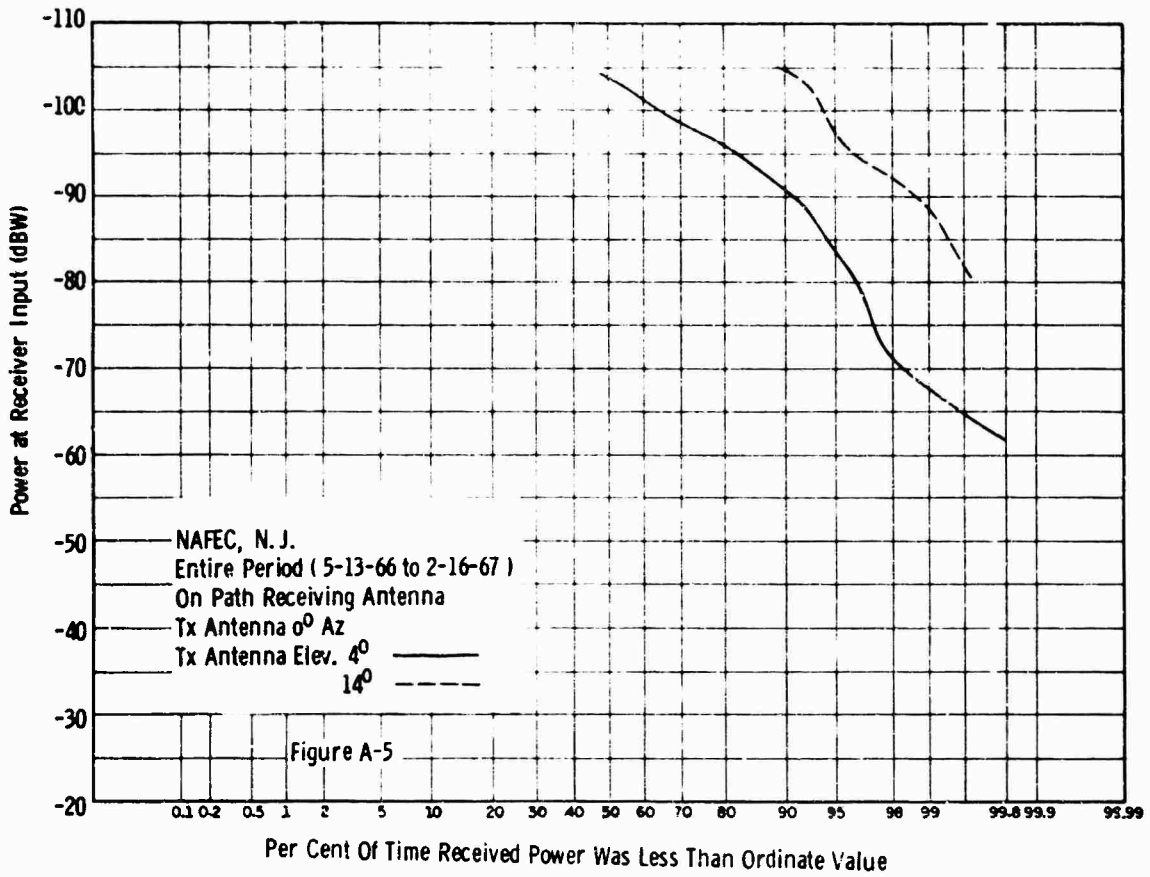
<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-136	Wildwood	Off-Path	0	1,8	2/16/66-5/13/66
A-137	Wildwood	Off	0	2,3	2/16/66-5/13/66
A-138	Wildwood	Off	0	4,6	2/16/66-5/13/66
A-139	Wildwood	Off	0	5,7,9	2/16/66-5/13/66
A-140	Wildwood	Off	3	1/2,7	2/16/66-5/13/66
A-141	Wildwood	Off	3	1/2,8	2/16/66-5/13/66
A-142	Wildwood	Off	3	1/2,9	2/16/66-5/13/66
A-143	Wildwood	Off	6	1/2,10	2/16/66-5/13/66
A-144	Wildwood	Off	6	1,3,9	2/16/66-5/13/66
A-145	Wildwood	Off	6	2,4,8	2/16/66-5/13/66
A-146	Wildwood	Off	6	5,7	2/16/66-5/13/66
A-147	Wildwood	Off	6	6	2/16/66-5/13/66
A-148	Wildwood	Off	0	3,10	5/13/66-6/7/66
A-149	Wildwood	Off	0	4,9	5/13/66-6/7/66
A-150	Wildwood	Off	0	5,8	5/13/66-6/7/66
A-151	Wildwood	Off	0	6,7	5/13/66-6/7/66
A-152	Wildwood	Off	3	1/2,1,10	5/13/66-6/7/66
A-153	Wildwood	Off	3	2,4	5/13/66-6/7/66
A-154	Wildwood	Off	3	3,5	5/13/66-6/7/66
A-155	Wildwood	Off	3	6,7	5/13/66-6/7/66
A-156	Wildwood	Off	3	8	5/13/66-6/7/66
A-157	Wildwood	Off	3	9	5/13/66-6/7/66
A-158	Wildwood	Off	6	1/2,1,3	5/13/66-6/7/66
A-159	Wildwood	Off	6	2,9	5/13/66-6/7/66
A-160	Wildwood	Off	6	4,10	5/13/66-6/7/66
A-161	Wildwood	Off	6	5,8	5/13/66-6/7/66
A-162	Wildwood	Off	6	6,7	5/13/66-6/7/66
A-163	Wildwood	Off	0	2,3,5	6/7/66-8/17/66
A-164	Wildwood	Off	0	6,7	6/7/66-8/17/66
A-165	Wildwood	Off	0	8	6/7/66-8/17/66
A-166	Wildwood	Off	0	9	6/7/66-8/17/66
A-167	Wildwood	Off	9	1/2,1,10	6/7/66-8/17/66
A-168	Wildwood	Off	9	2,9	6/7/66-8/17/66
A-169	Wildwood	Off	9	5,7	6/7/66-8/17/66
A-170	Wildwood	Off	12	1,5	6/7/66-8/17/66
A-171	Wildwood	Off	12	2,6	6/7/66-8/17/66
A-172	Wildwood	Off	12	7,8	6/7/66-8/17/66
A-173	Wildwood	Off	0	4,16	8/19/66-12/14/66
A-174	Wildwood	Off	0	6,12	8/19/66-12/14/66
A-175	Wildwood	Off	0	8,14	8/19/66-12/14/66
A-176	Wildwood	Off	0	10,18	8/19/66-12/14/66
A-177	Wildwood	Off	12	1/2,8,20	8/19/66-12/14/66
A-178	Wildwood	Off	12	2,10,18	8/19/66-12/14/66
A-179	Wildwood	Off	12	4,12,16	8/19/66-12/14/66
A-180	Wildwood	Off	12	6,14	8/19/66-12/14/66
A-181	Wildwood	Off	18	4,20	8/19/66-12/14/66
A-182	Wildwood	Off	18	6,18	8/19/66-12/14/66
A-183	Wildwood	Off	18	2,12	8/19/66-12/14/66

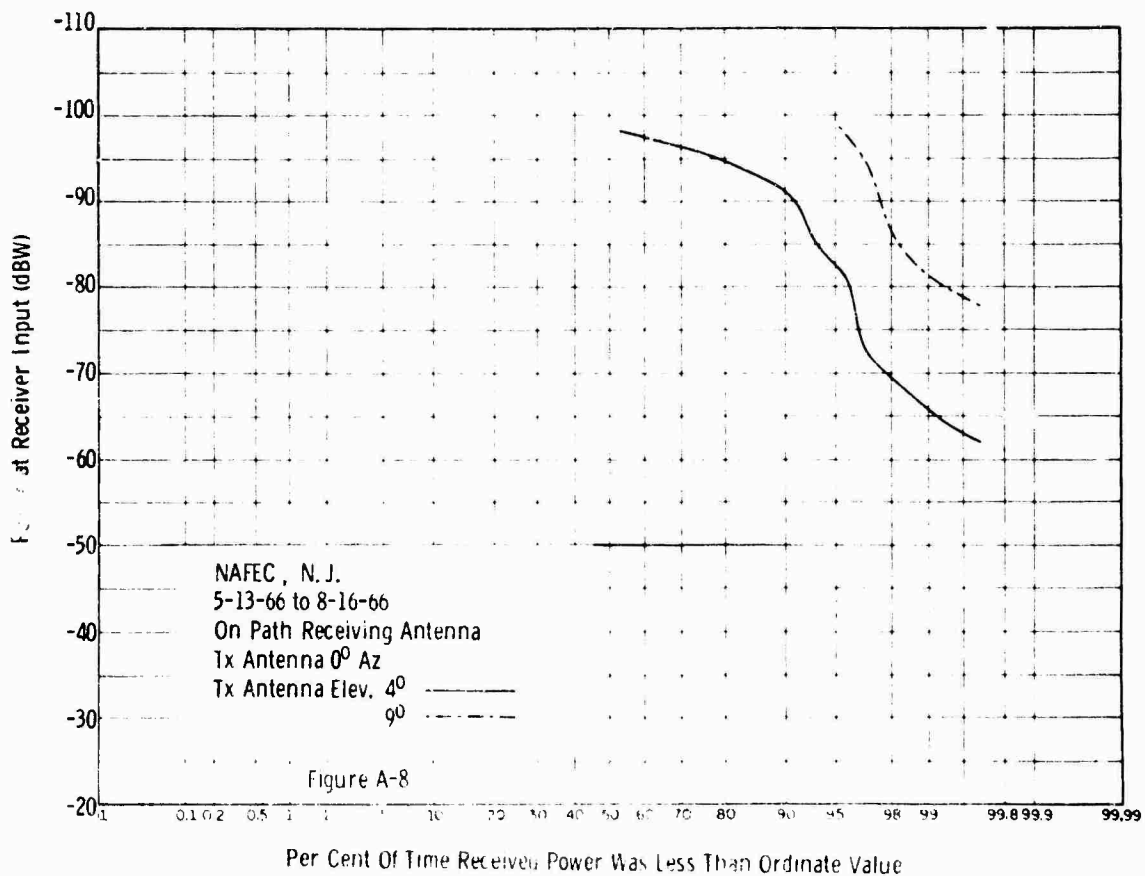
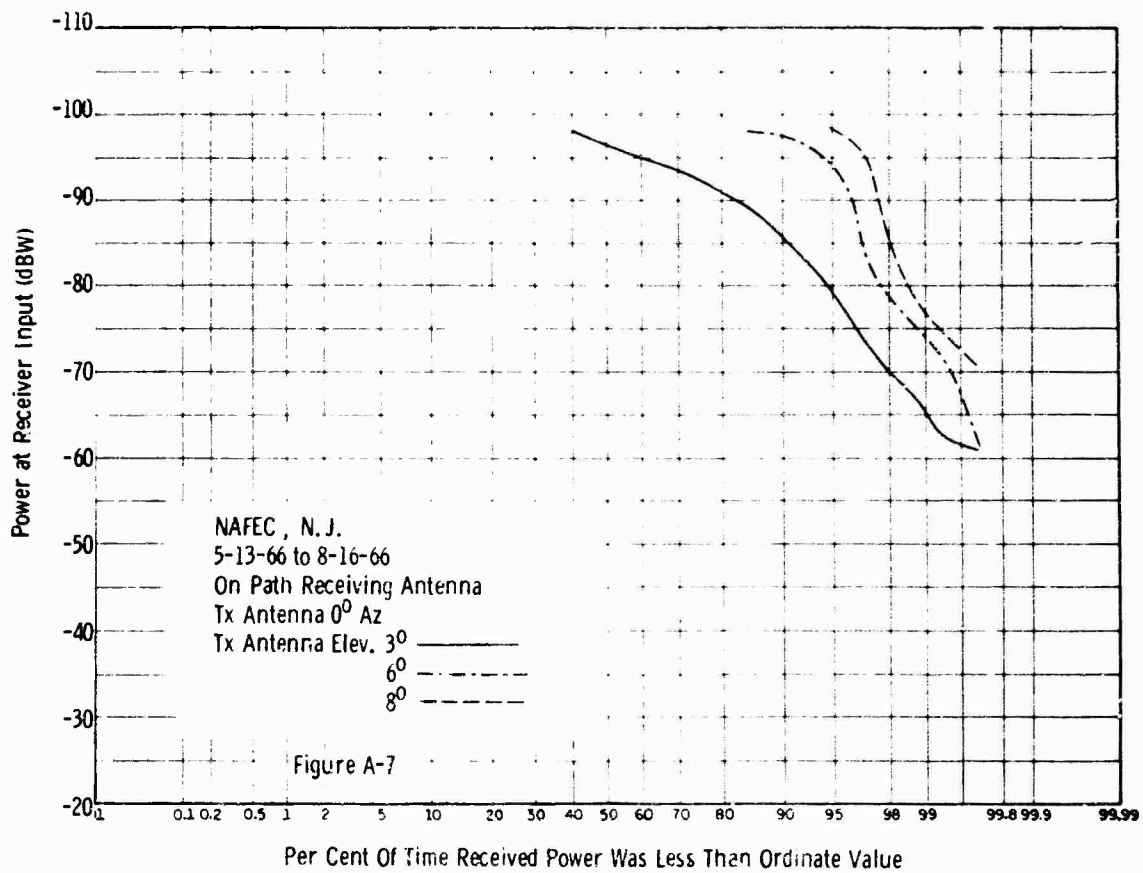
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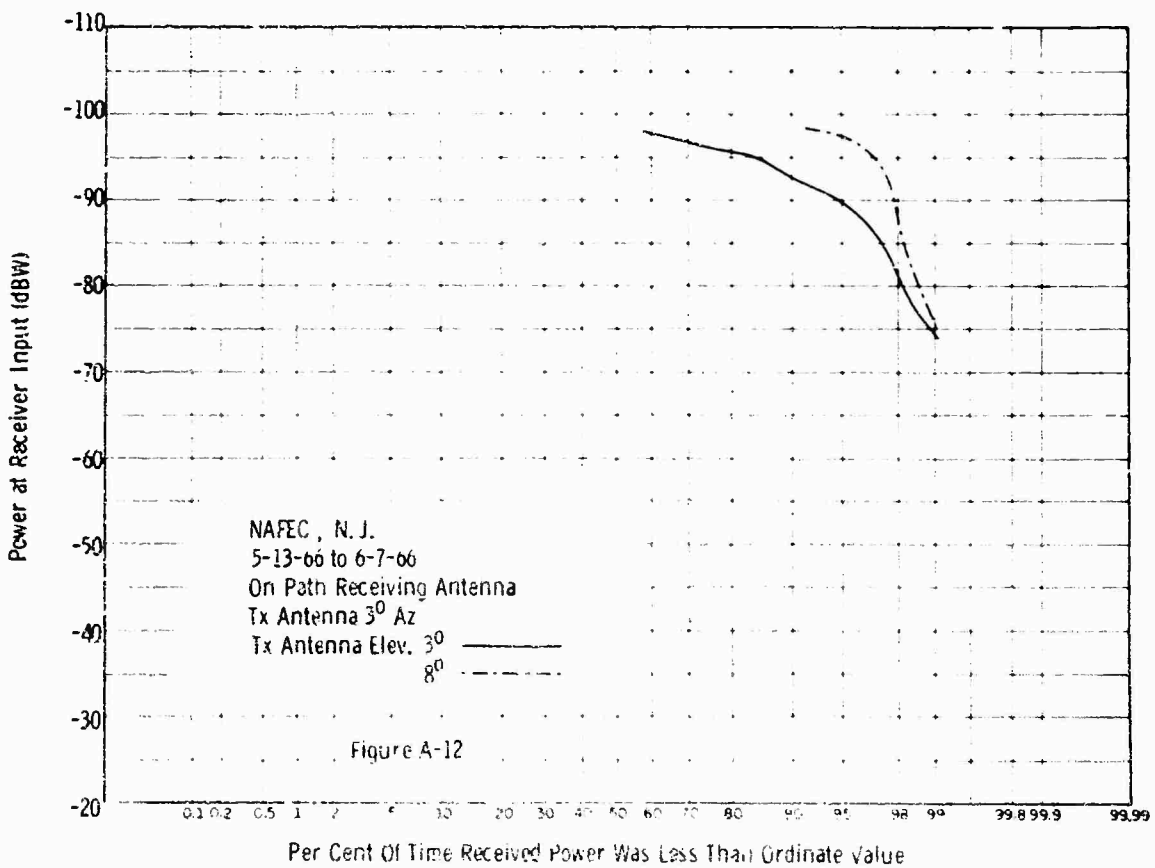
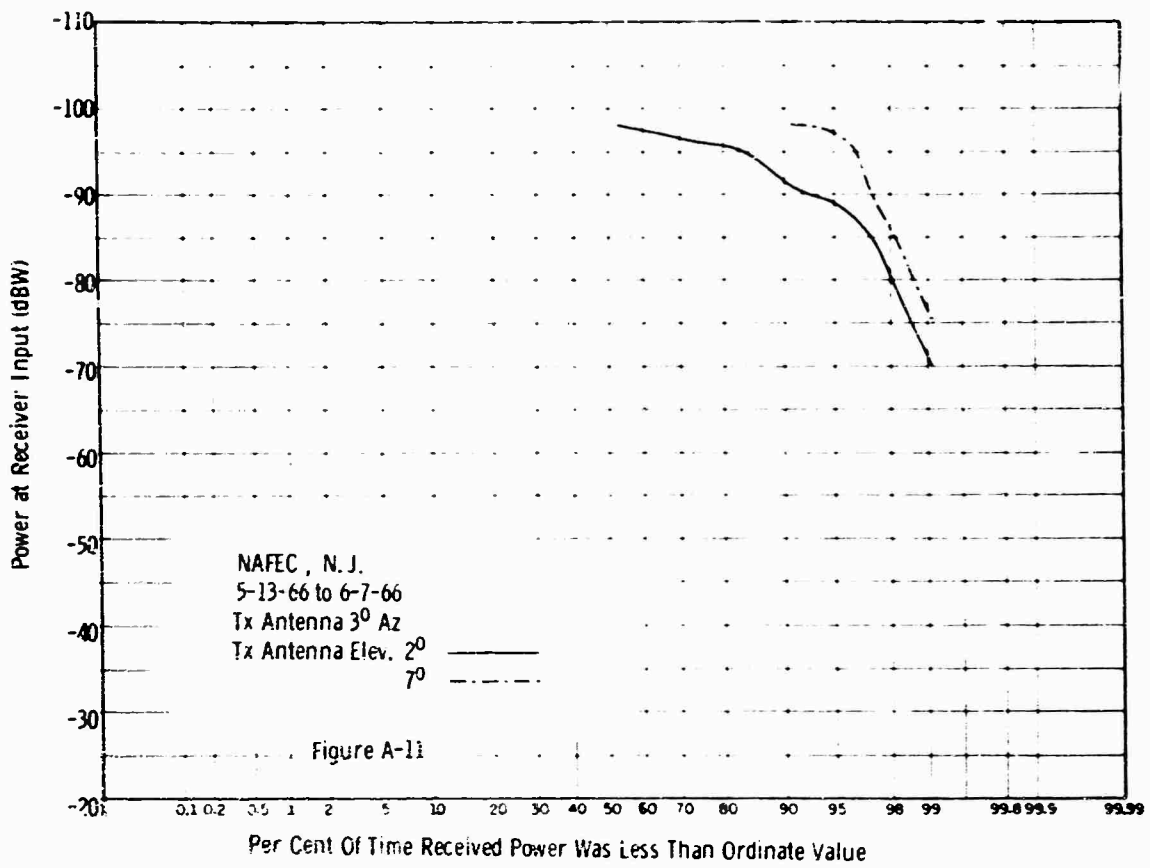
<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-184	Wallops Isl.	On-Path	3	1/4	1/24/67-2/16/67
A-185	Wallops Isl.	On	18	1/4,18,21	1/24/67-2/16/67
A-186	Wallops Isl.	Off-Path	0	1/4,3	1/24/67-2/16/67
A-187	Wallops Isl.	Off	0	9,21,30	1/24/67-2/16/67
A-188	Wallops Isl.	Off	3	30	1/24/67-2/16/67
A-189	Wallops Isl.	Off	18	3,18	1/24/67-2/16/67
A-190	Wallops Isl.	Off	18	6,24	1/24/67-2/16/67
A-191	Wallops Isl.	Off	18	9,27	1/24/67-2/16/67
A-192	Wallops Isl.	Off	18	12,21	1/24/67-2/16/67
A-193	Wallops Isl.	Off	18	30	1/24/67-2/16/67

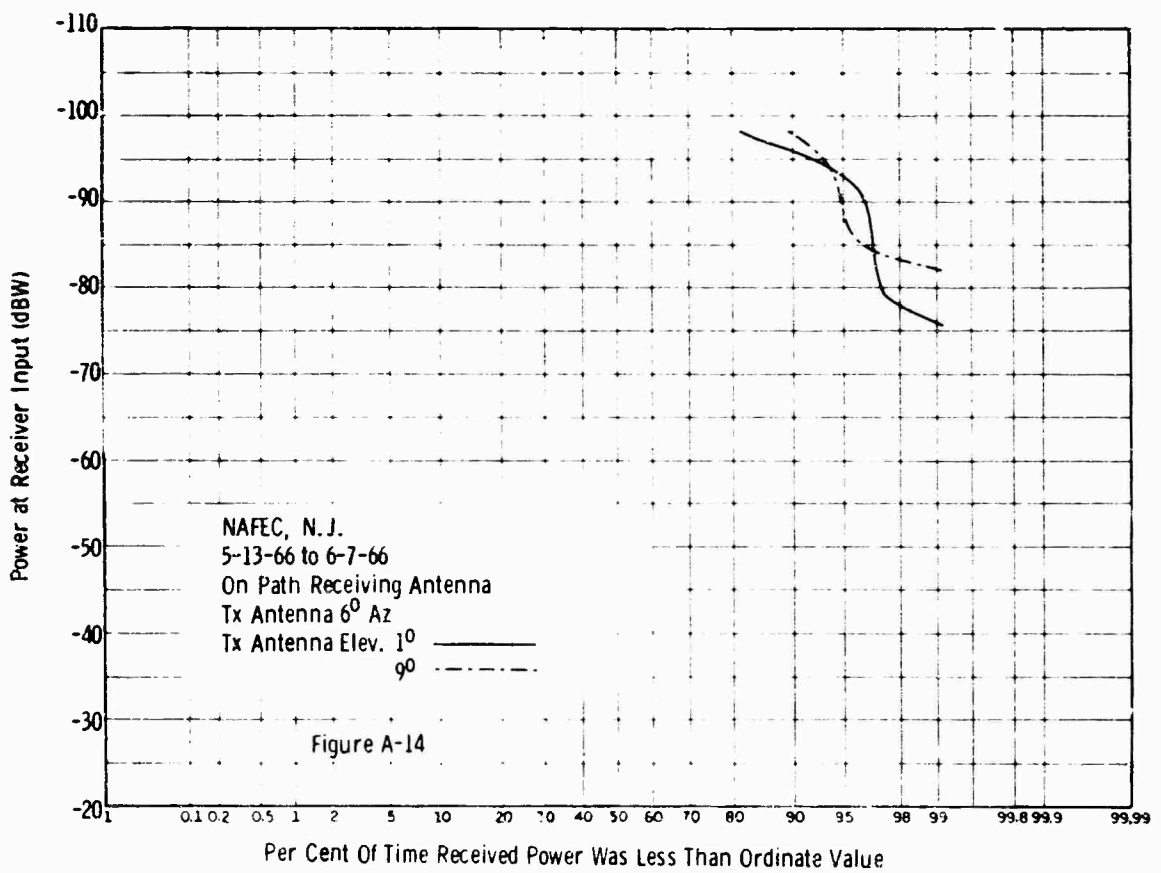
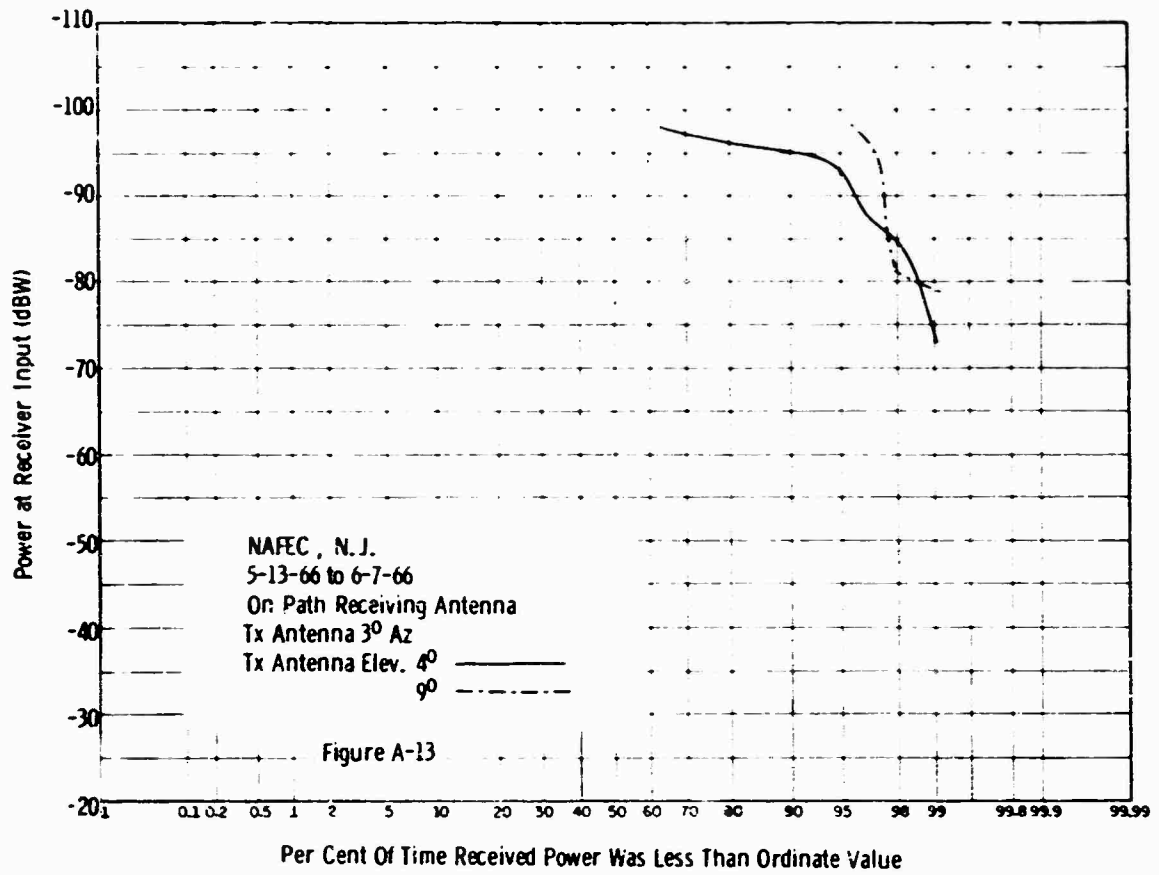


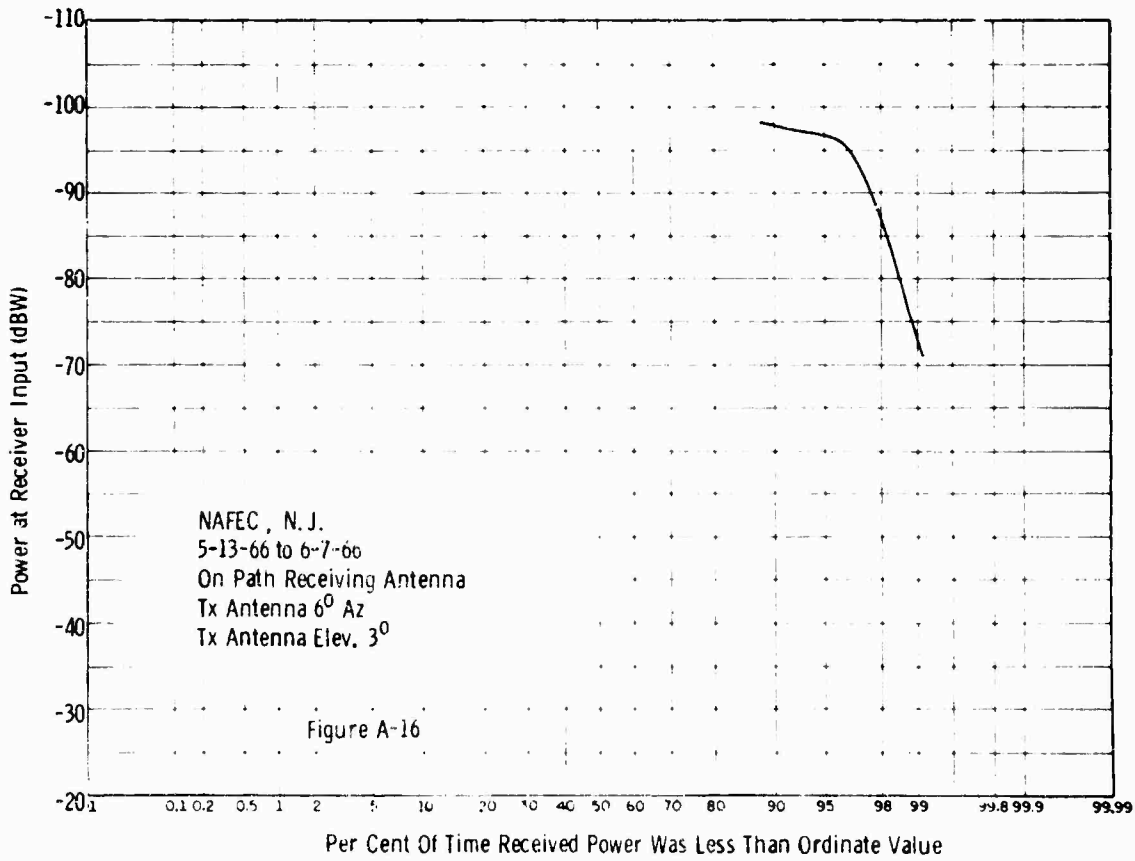
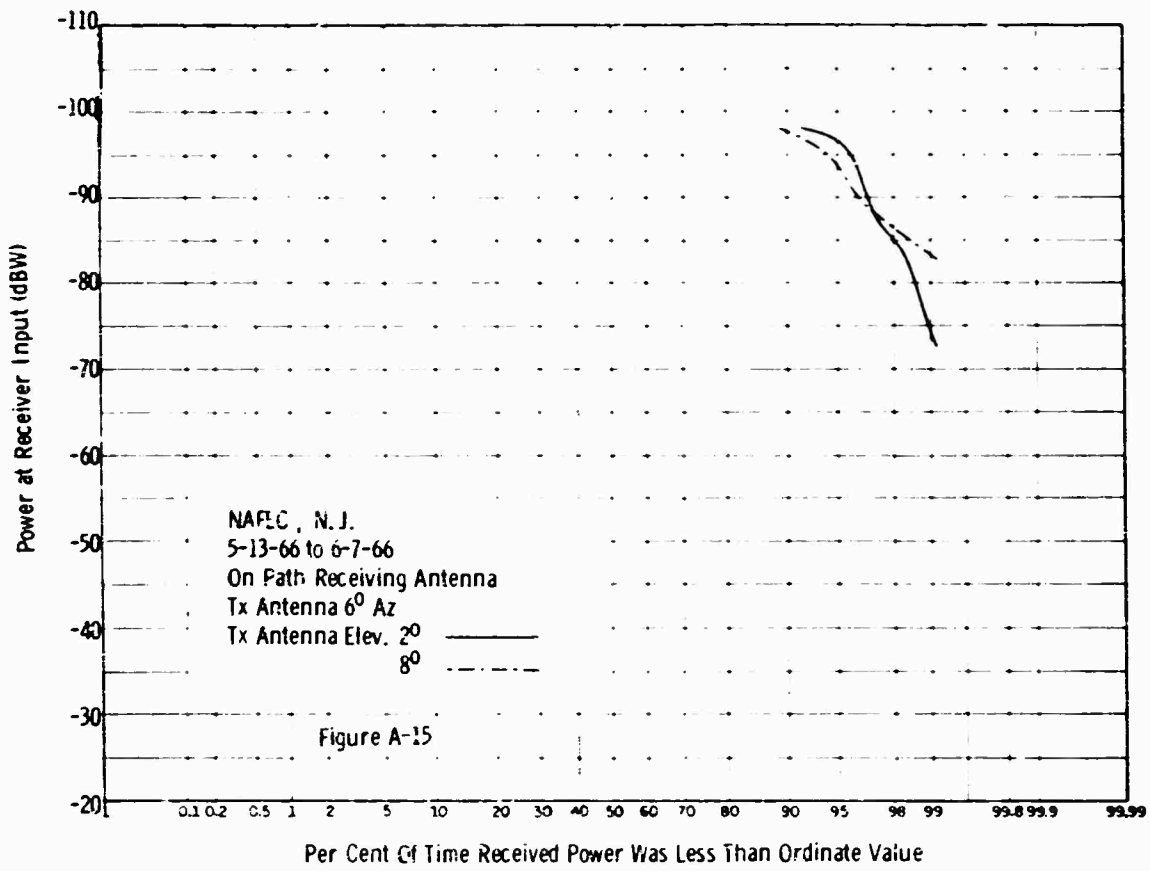


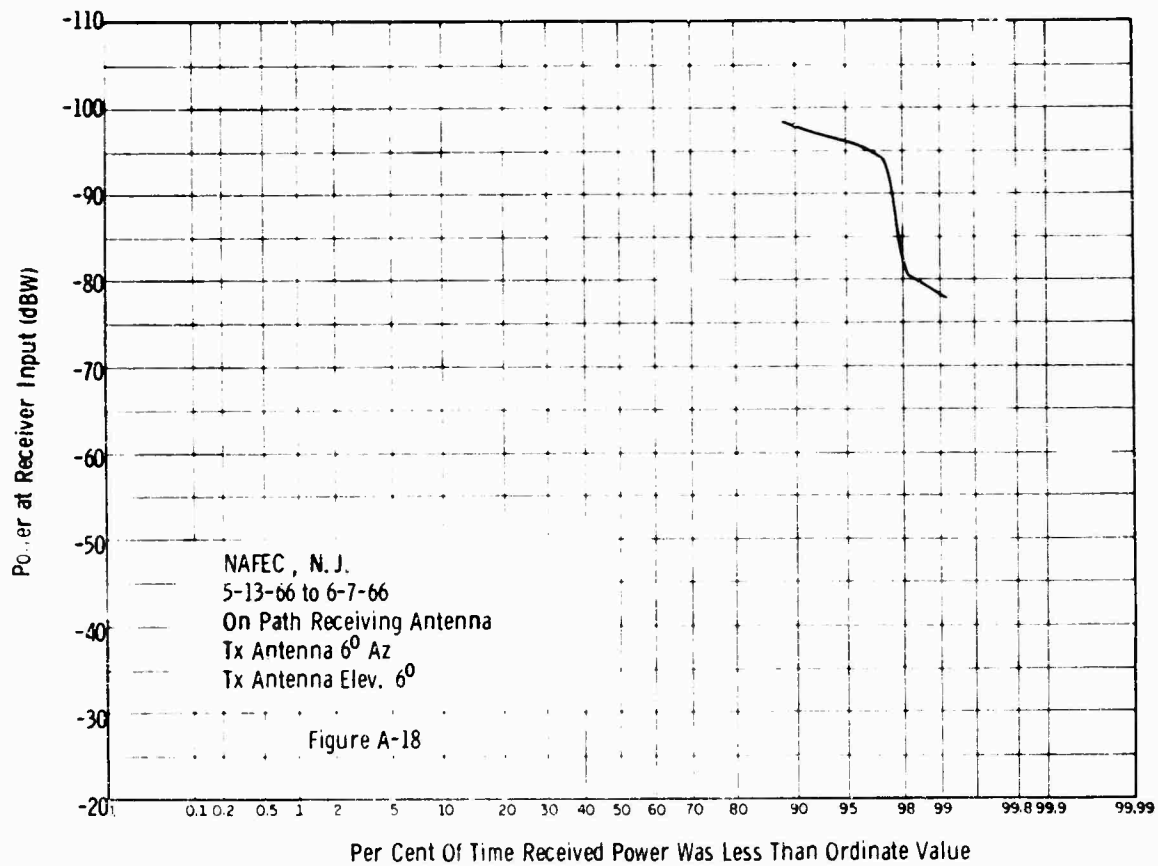
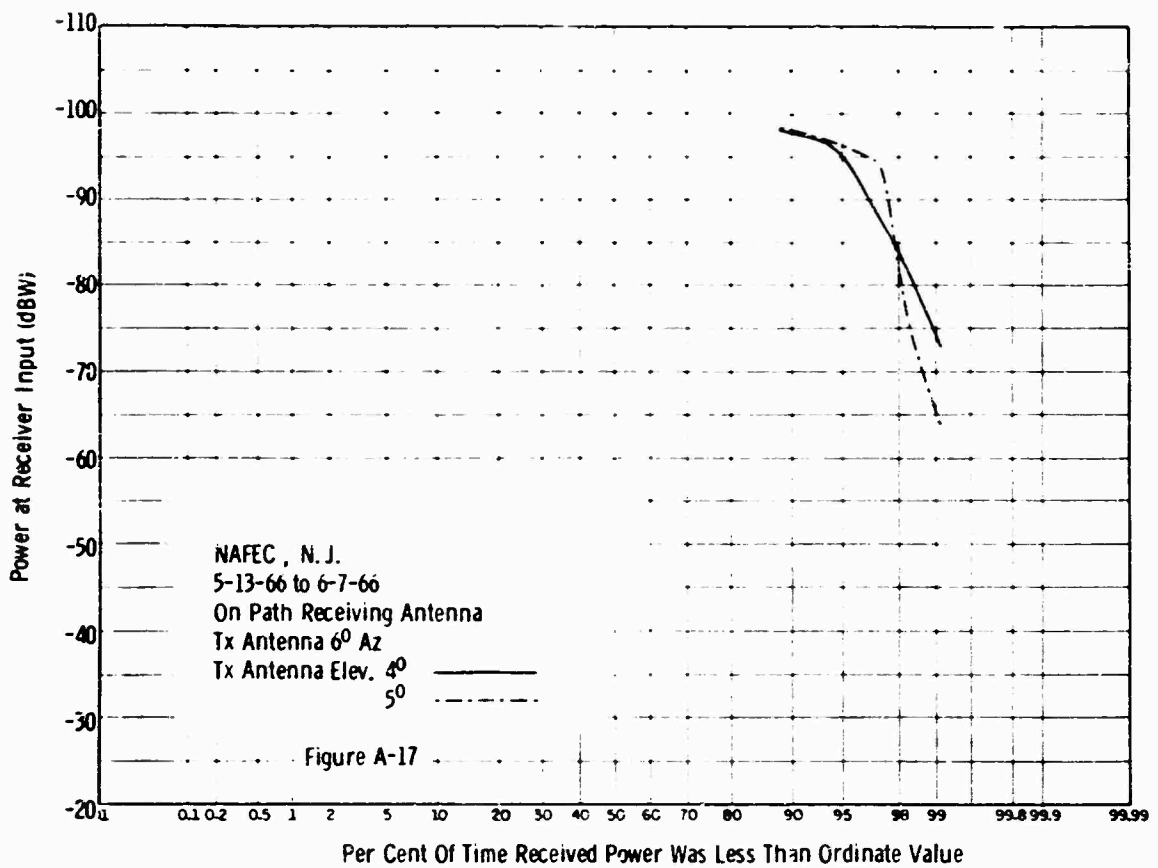


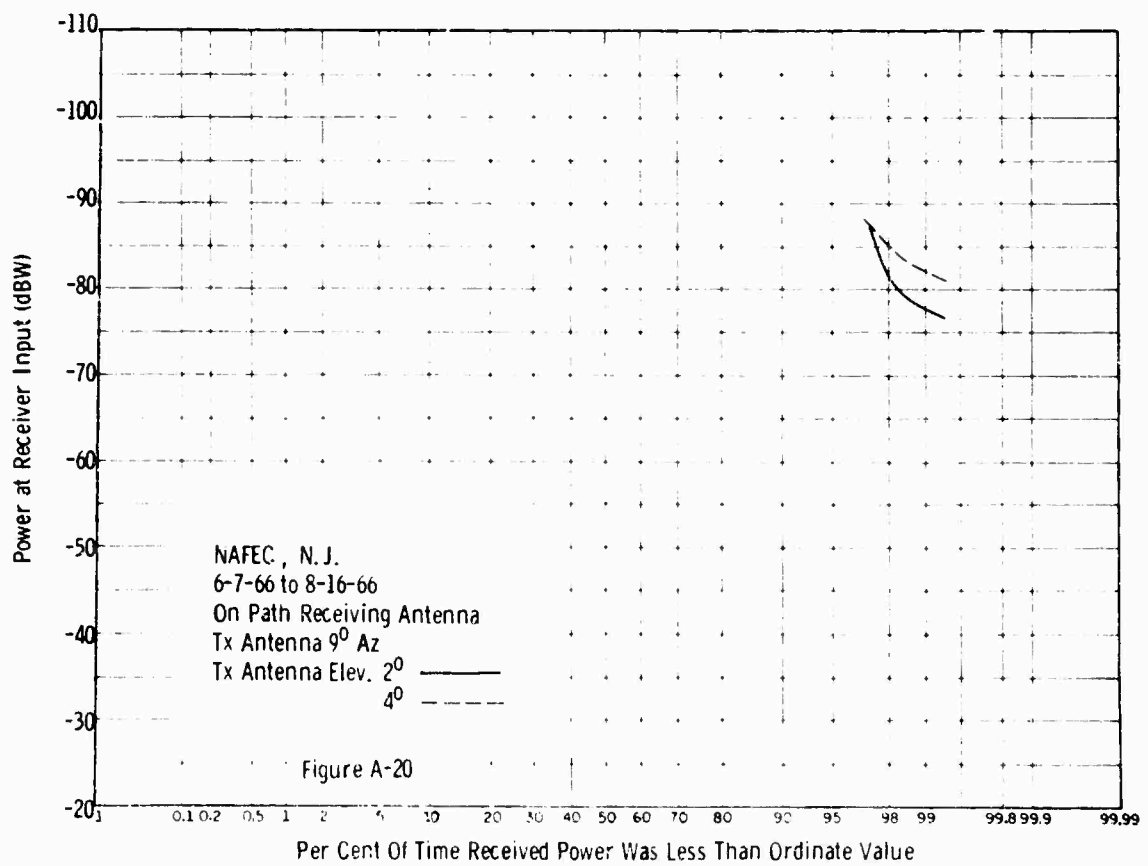
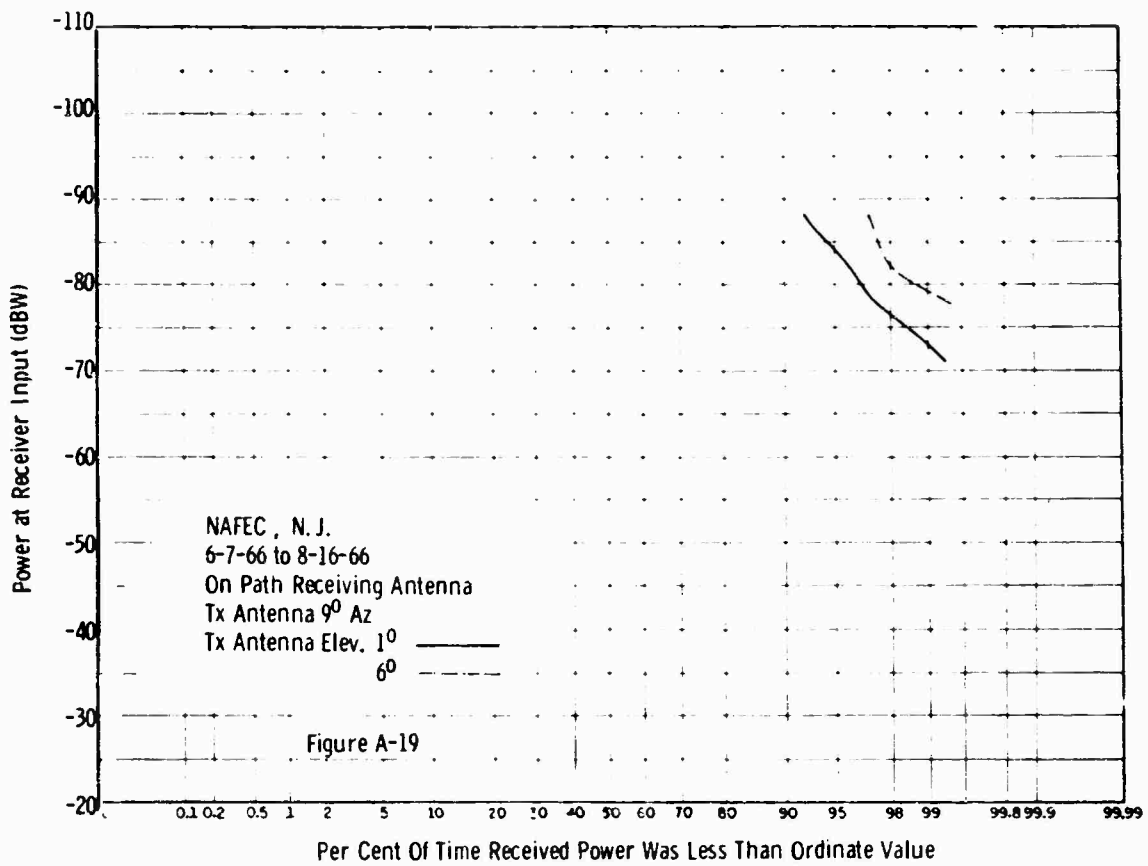


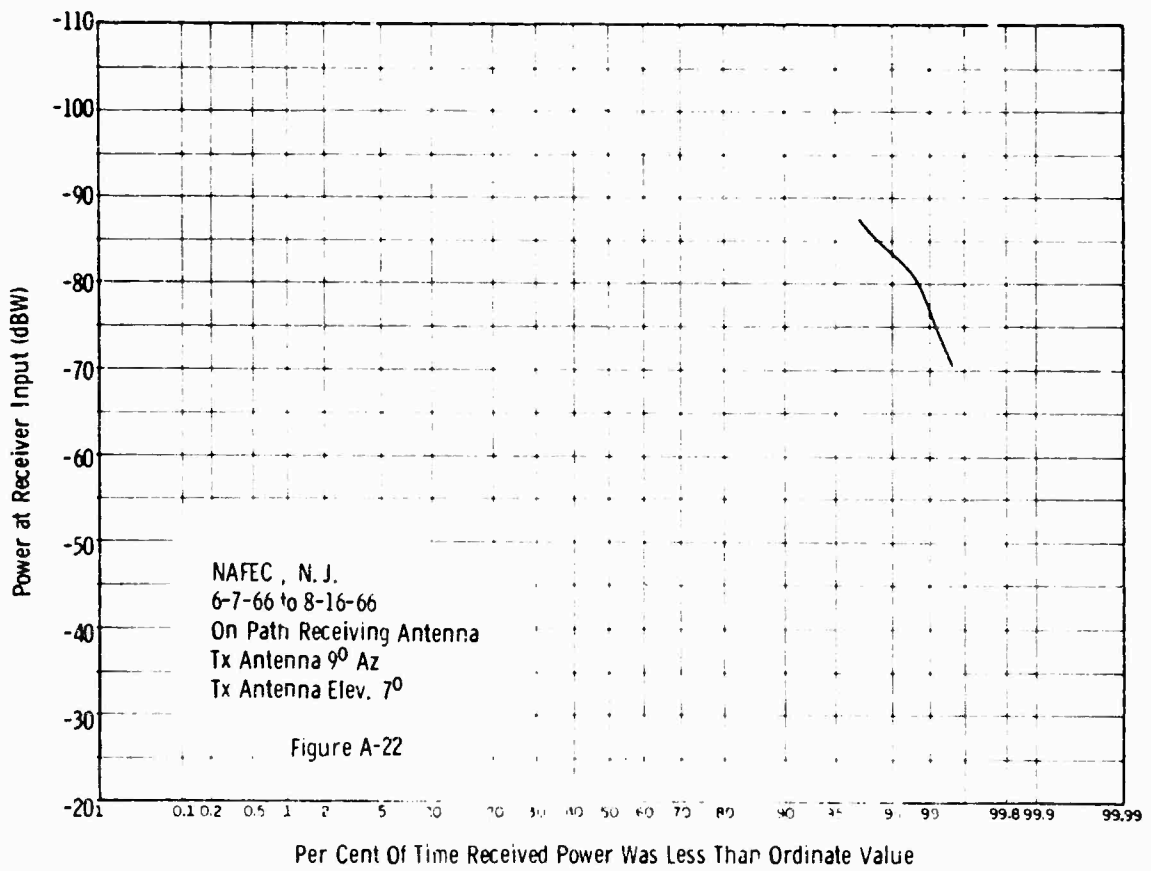
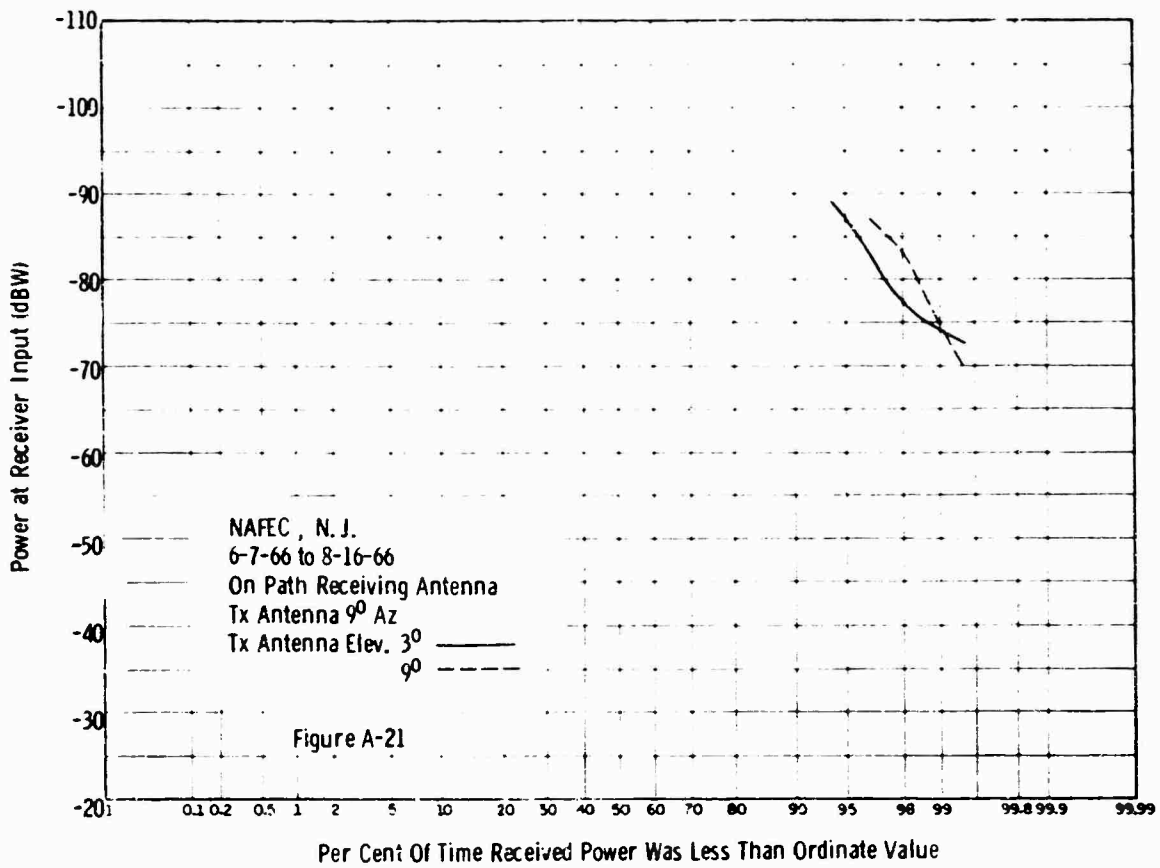


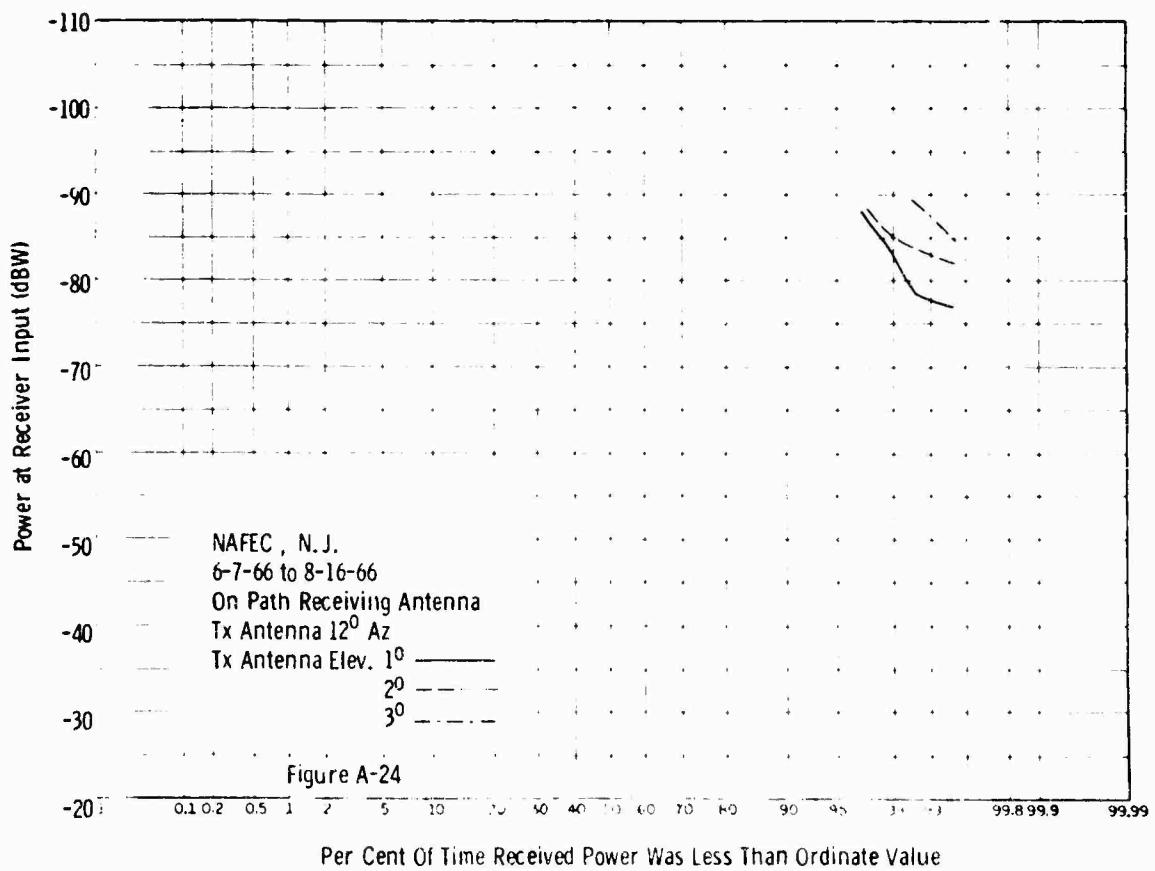
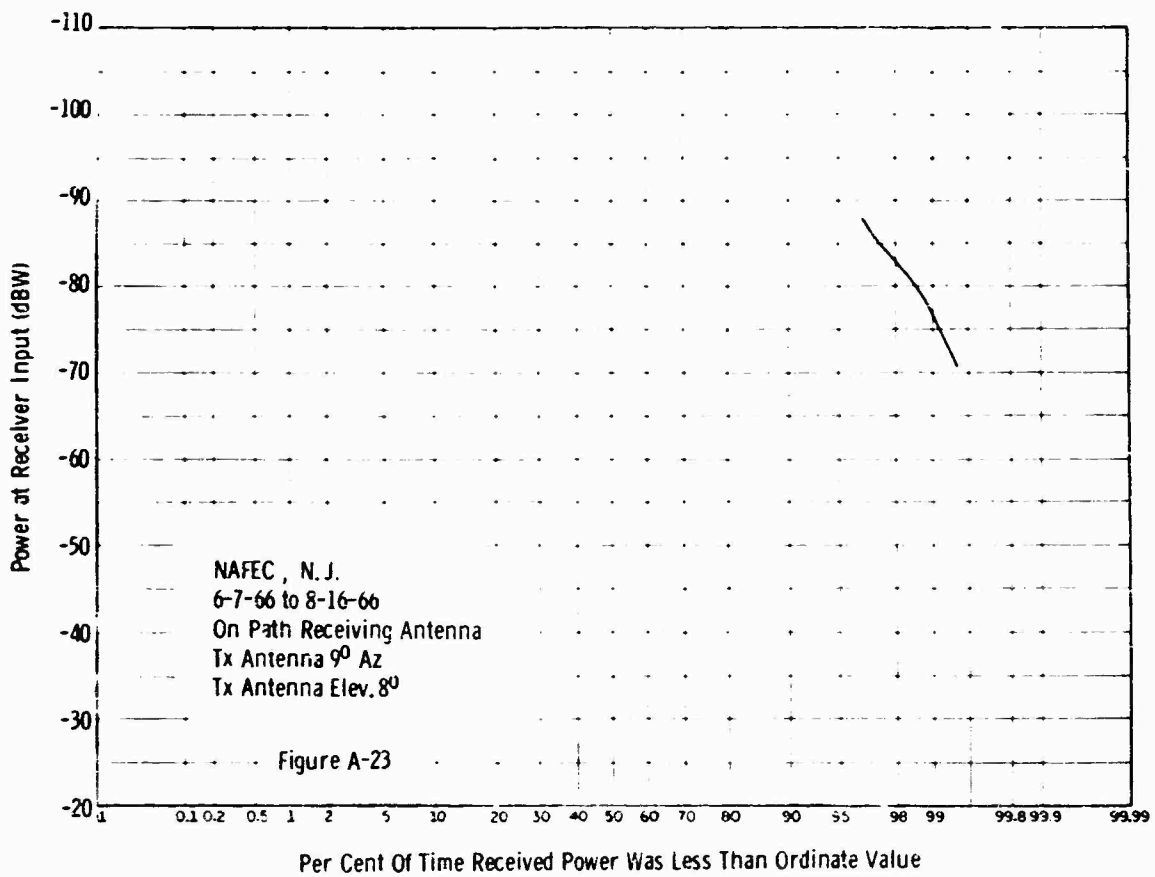


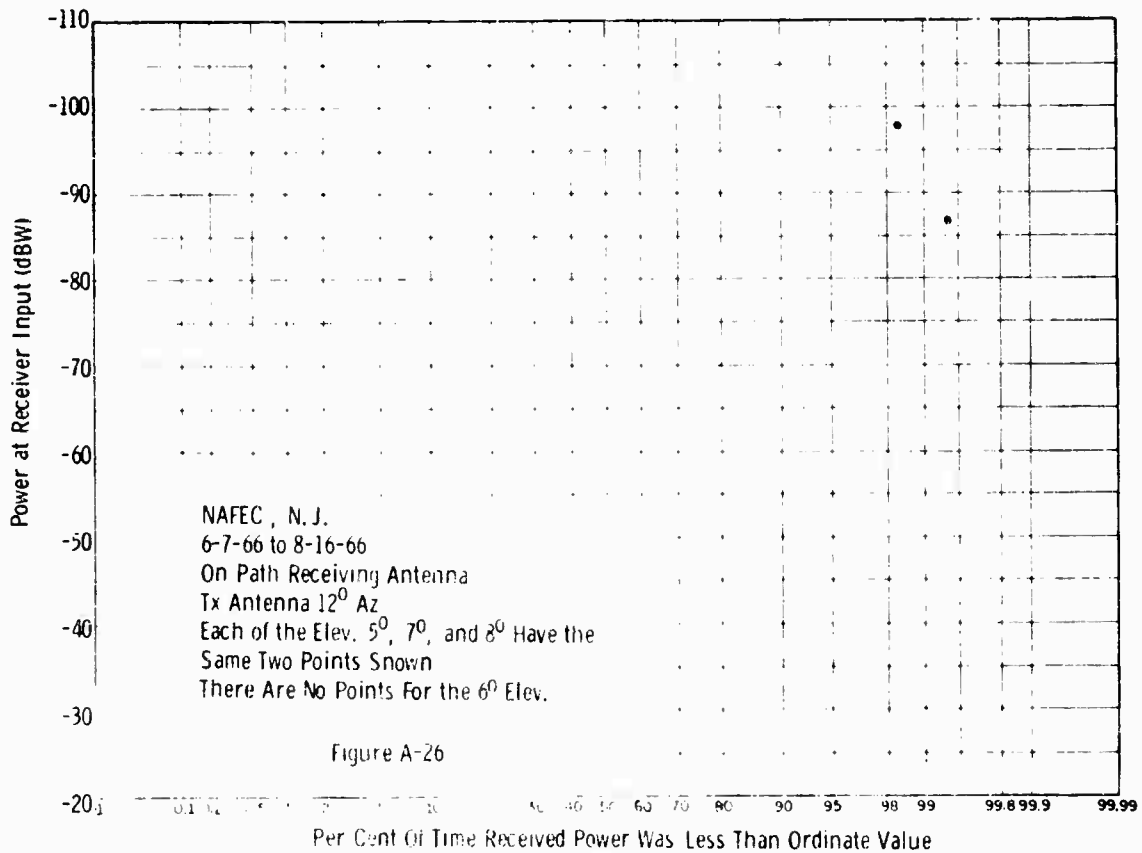
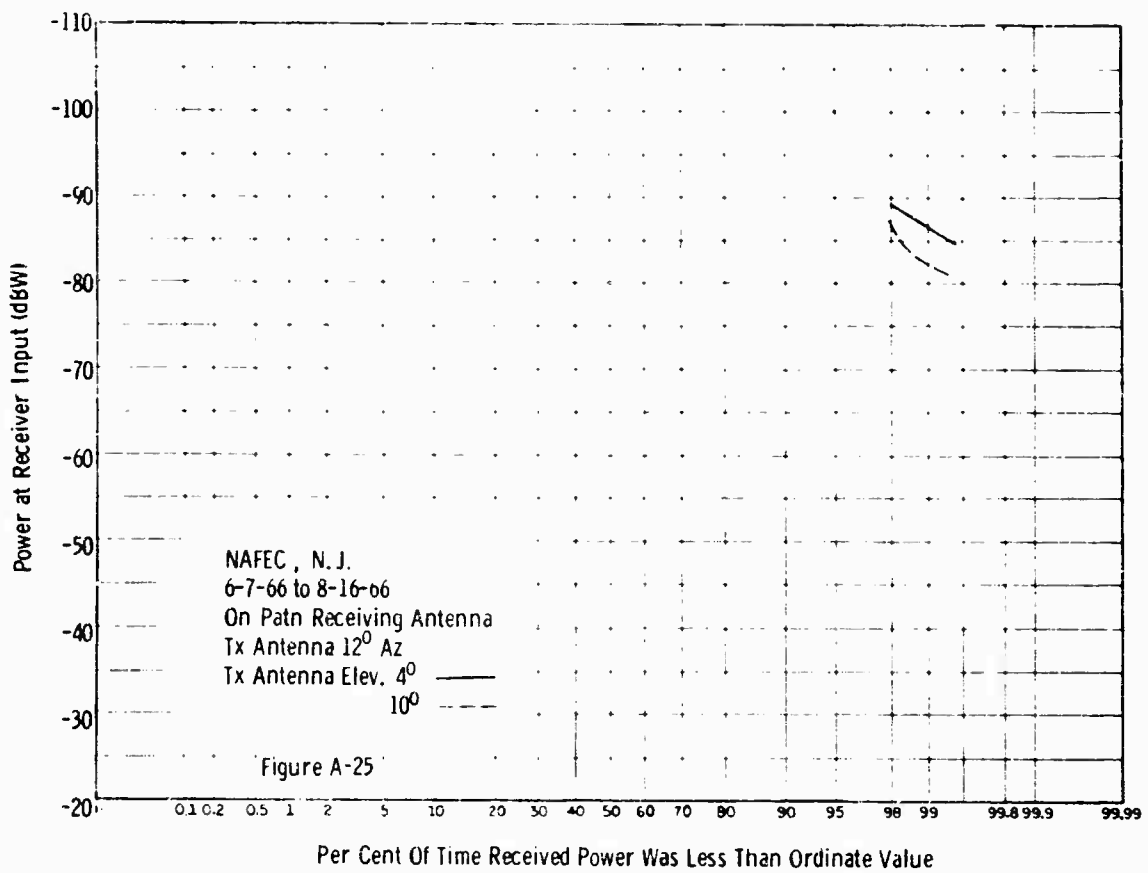


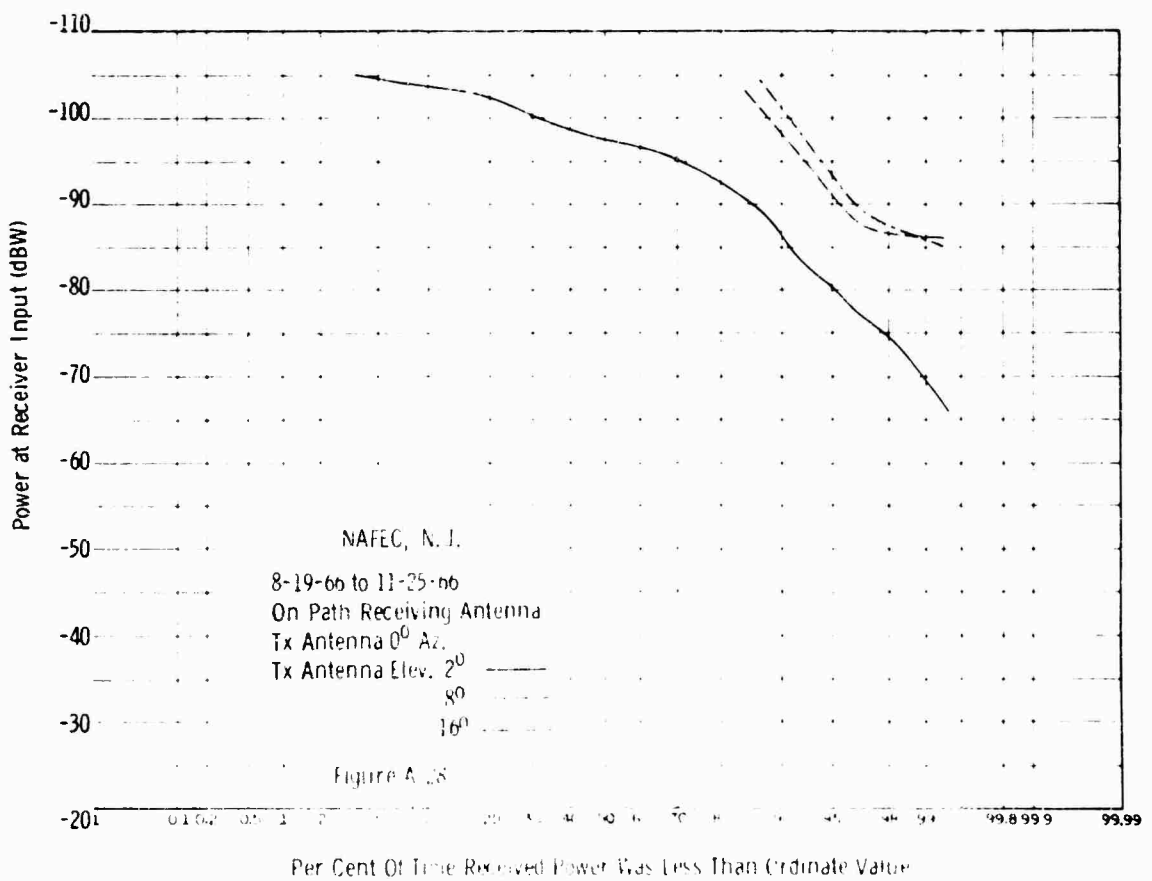
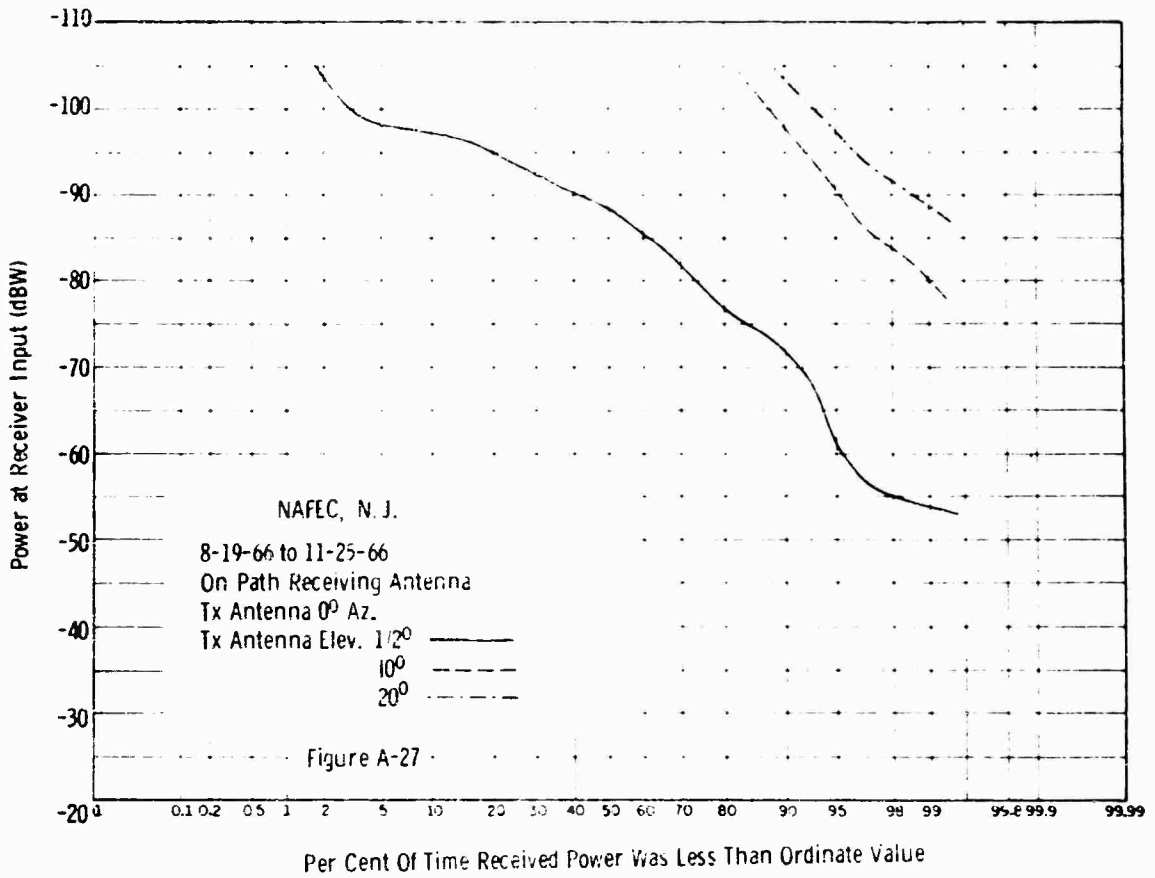


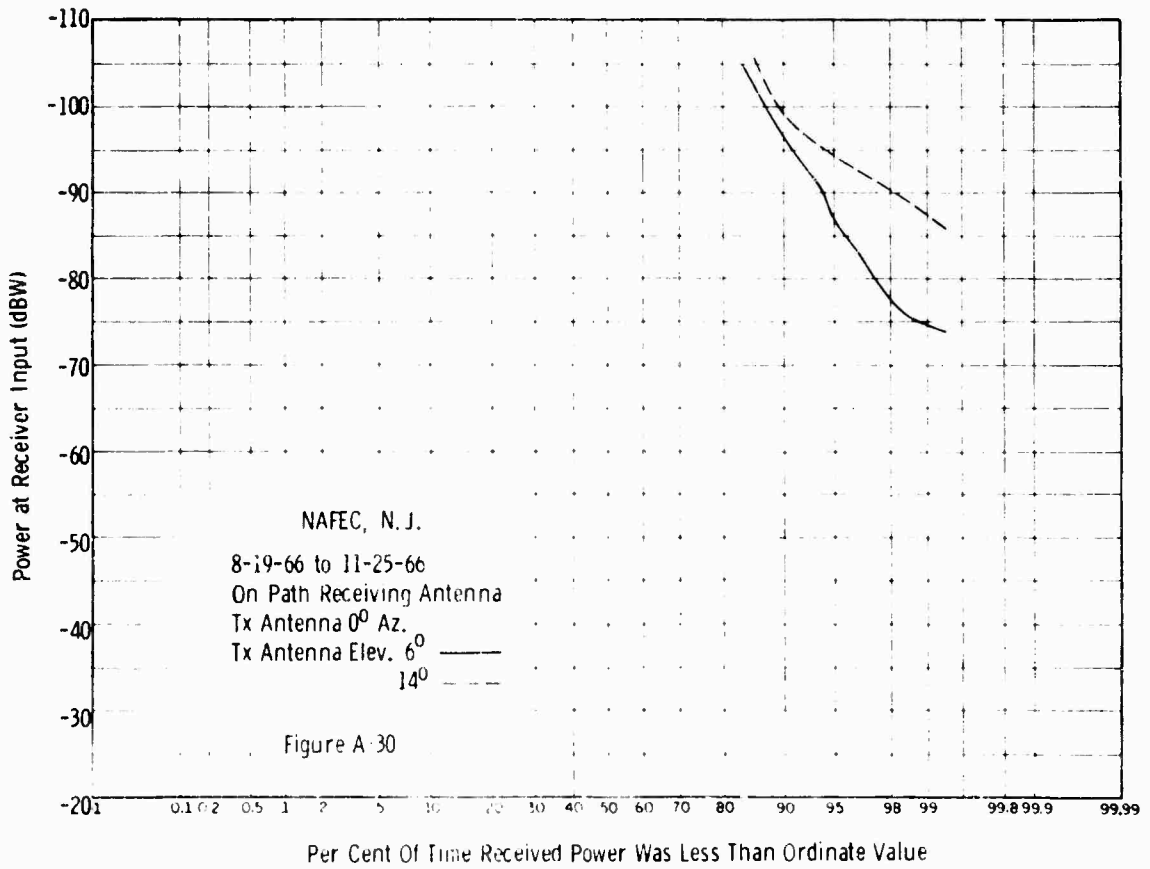
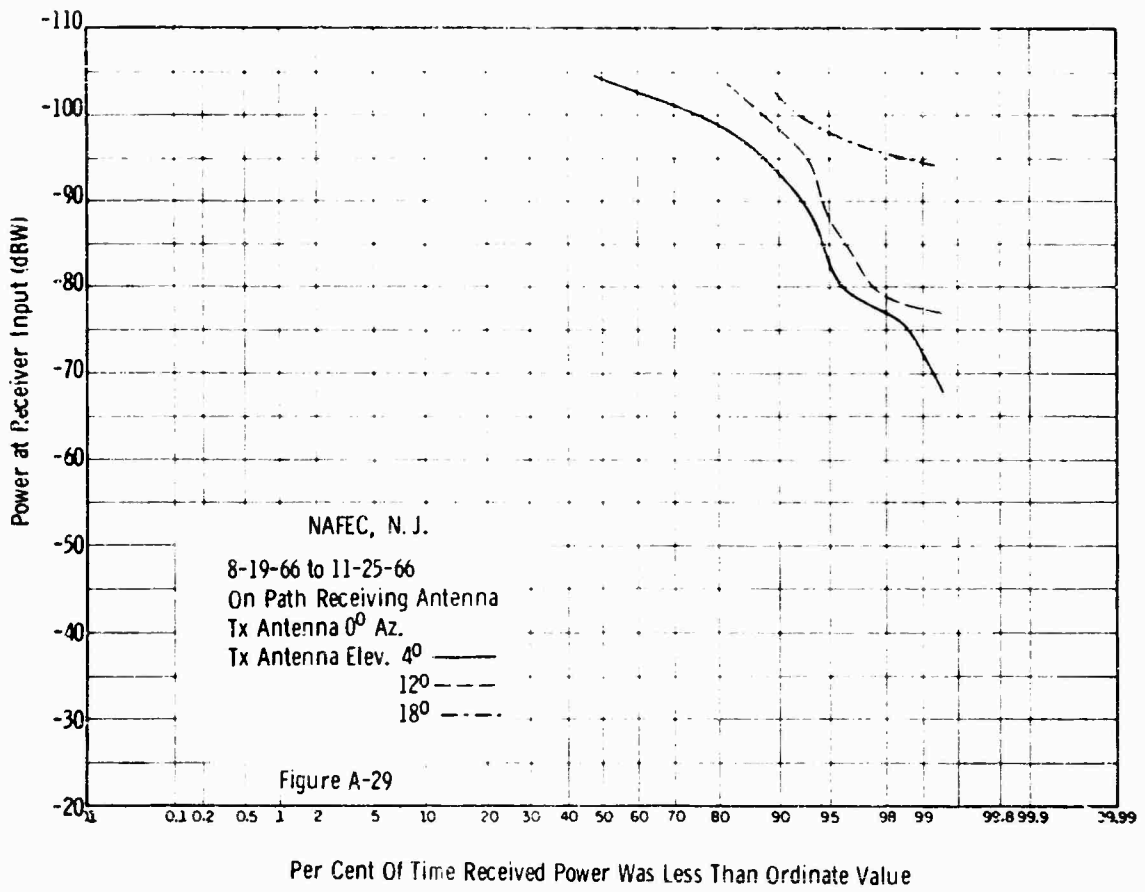


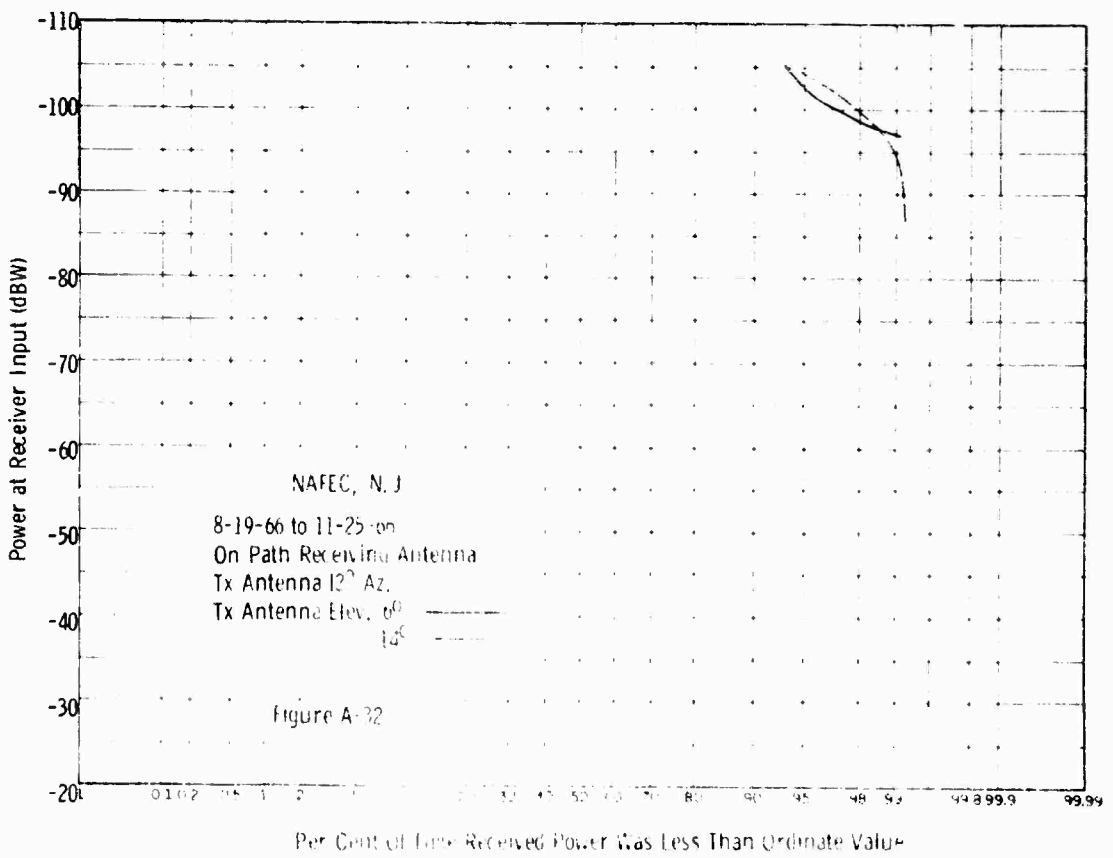
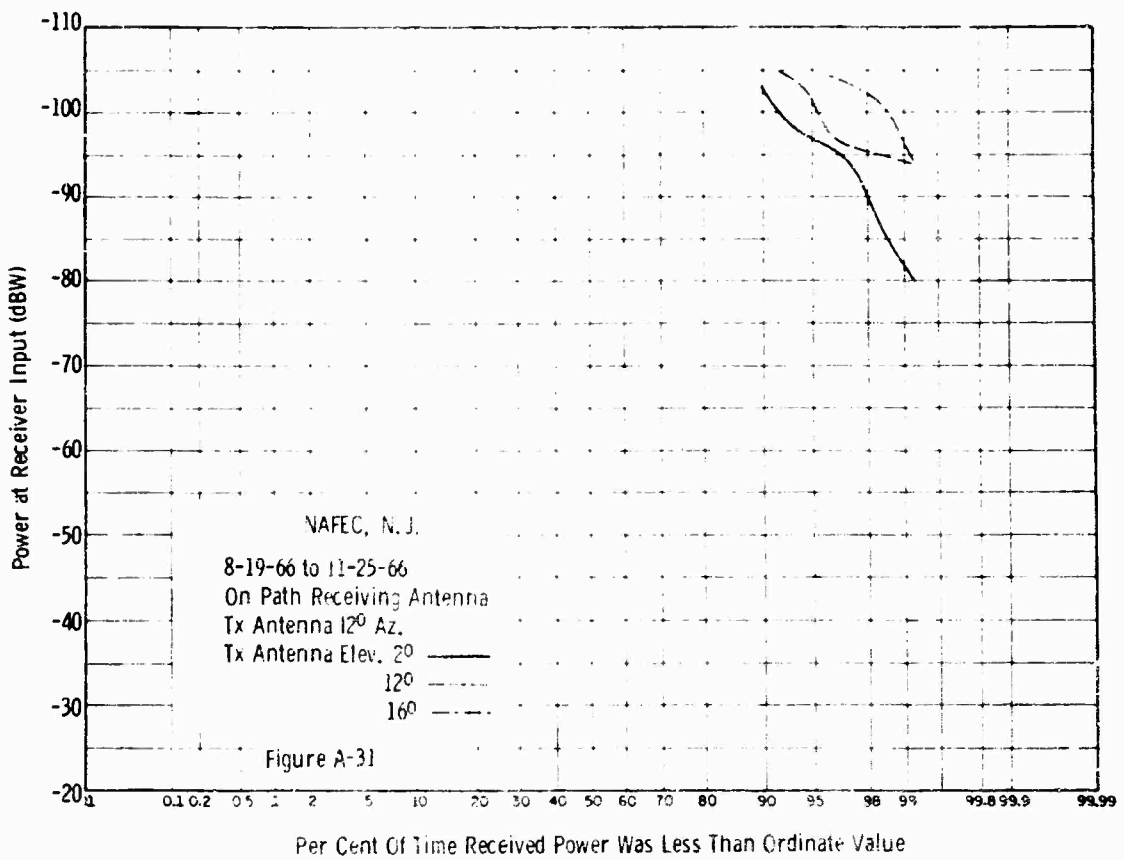


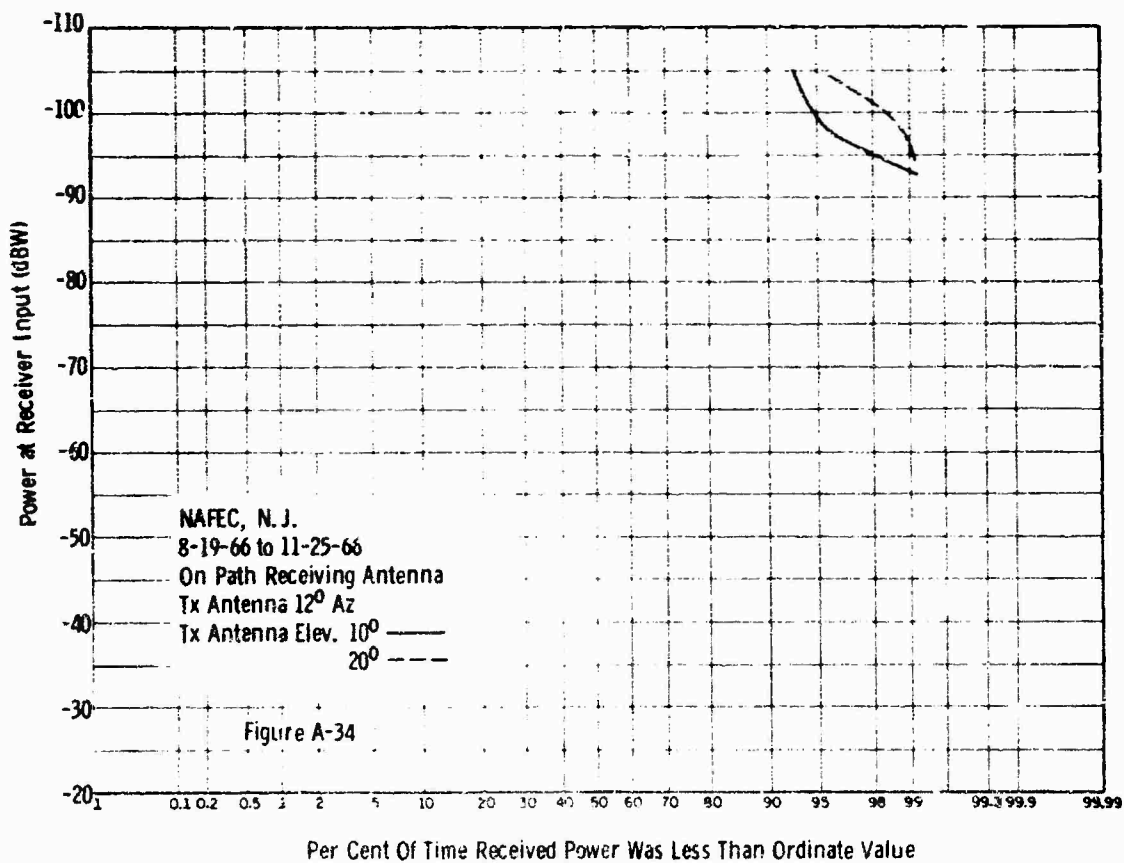
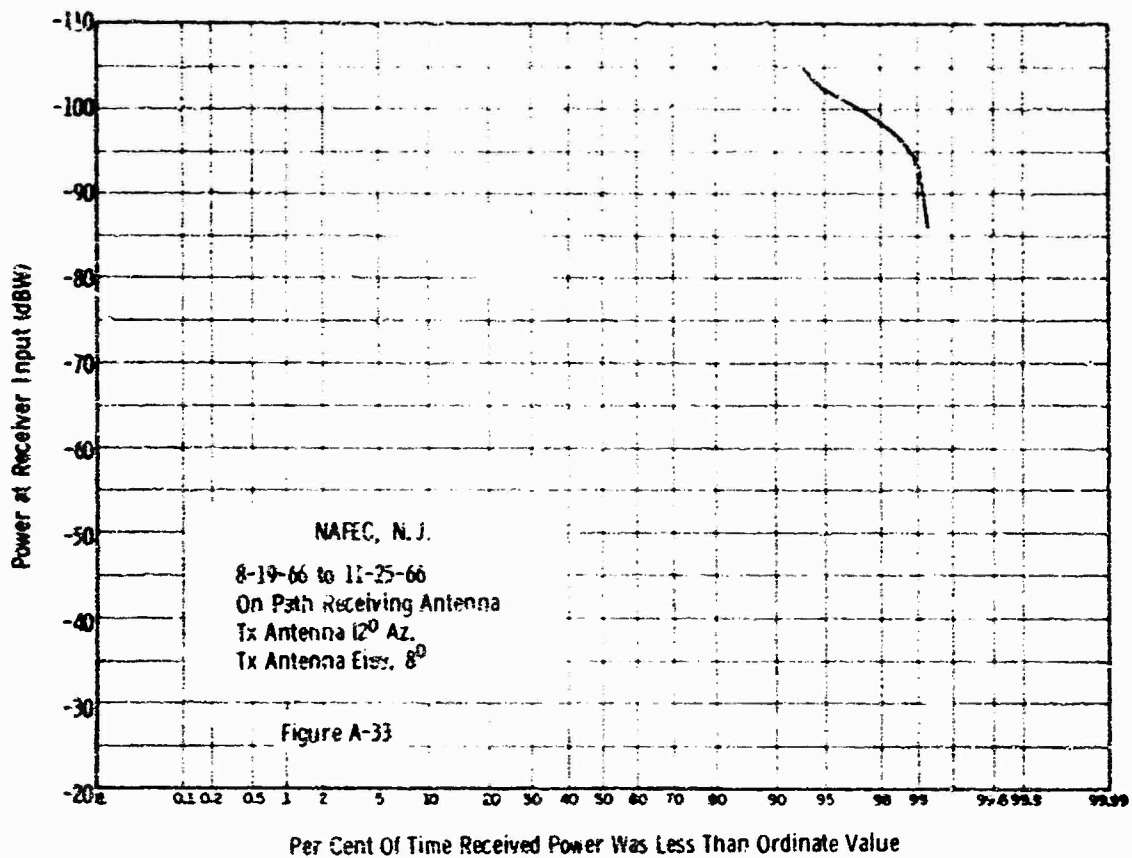


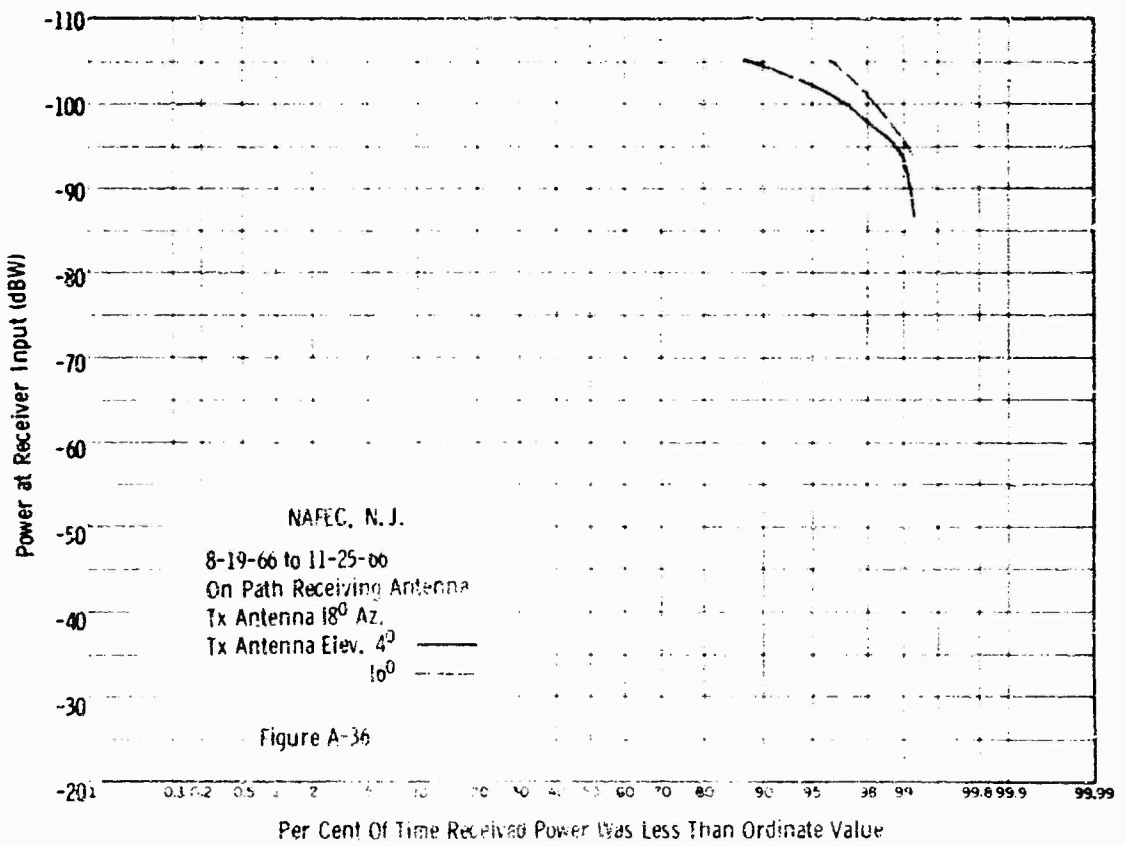
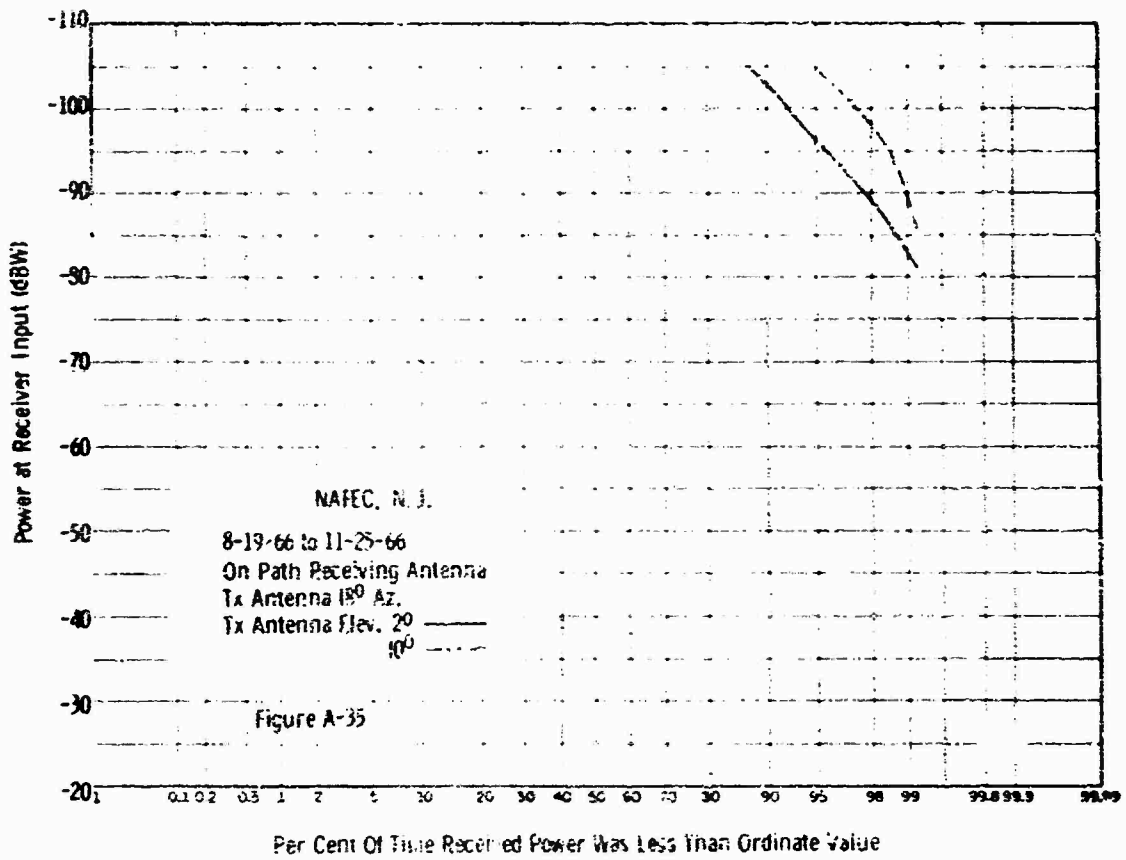


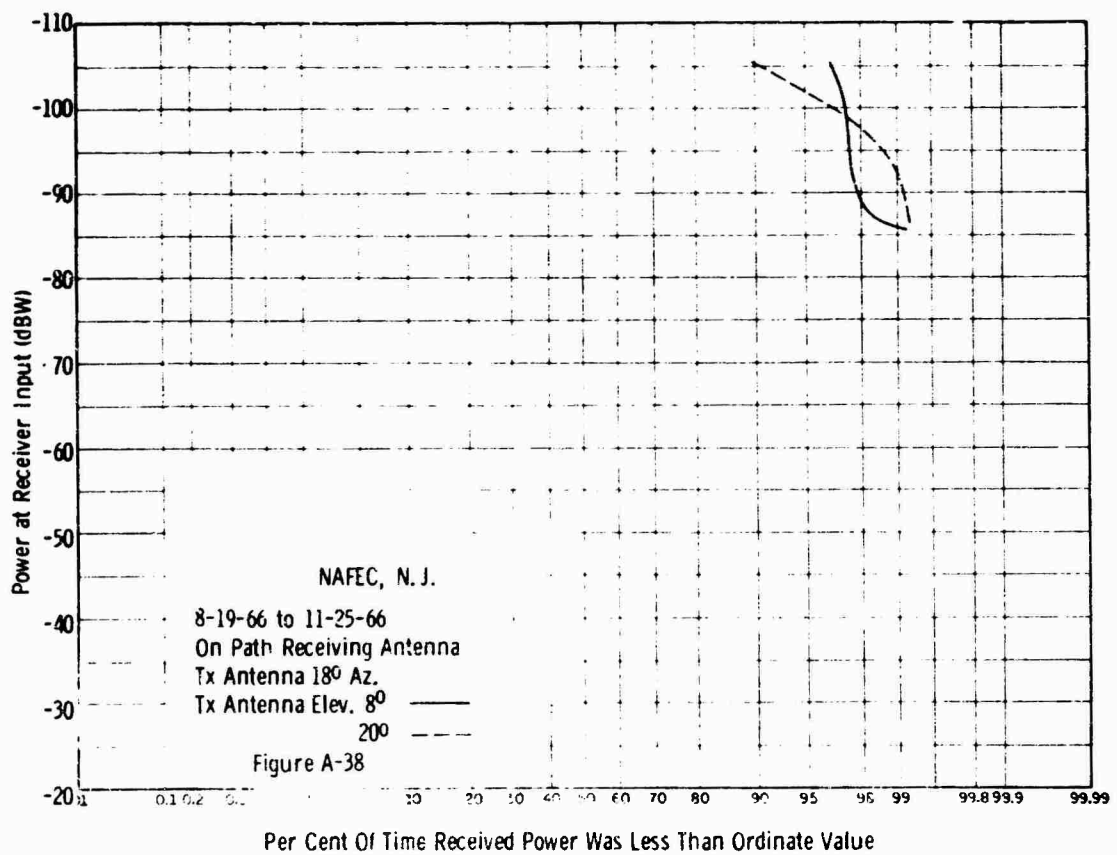
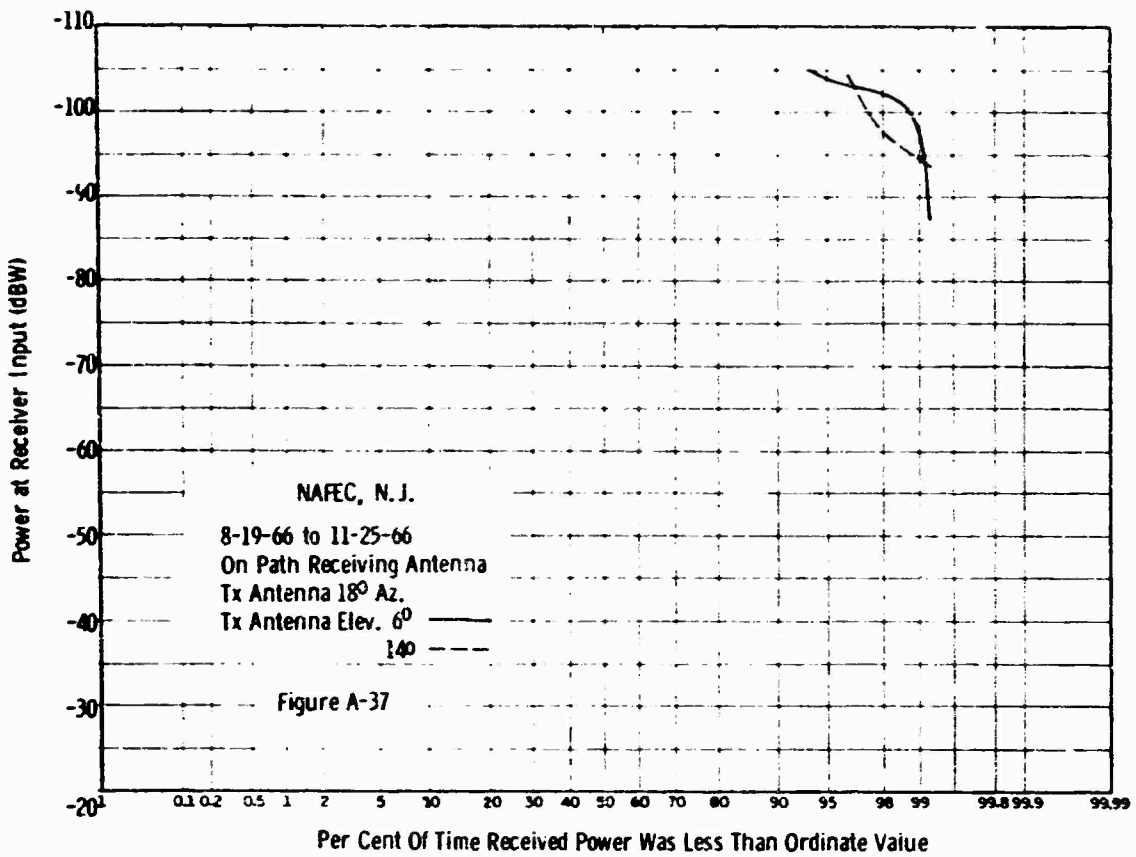


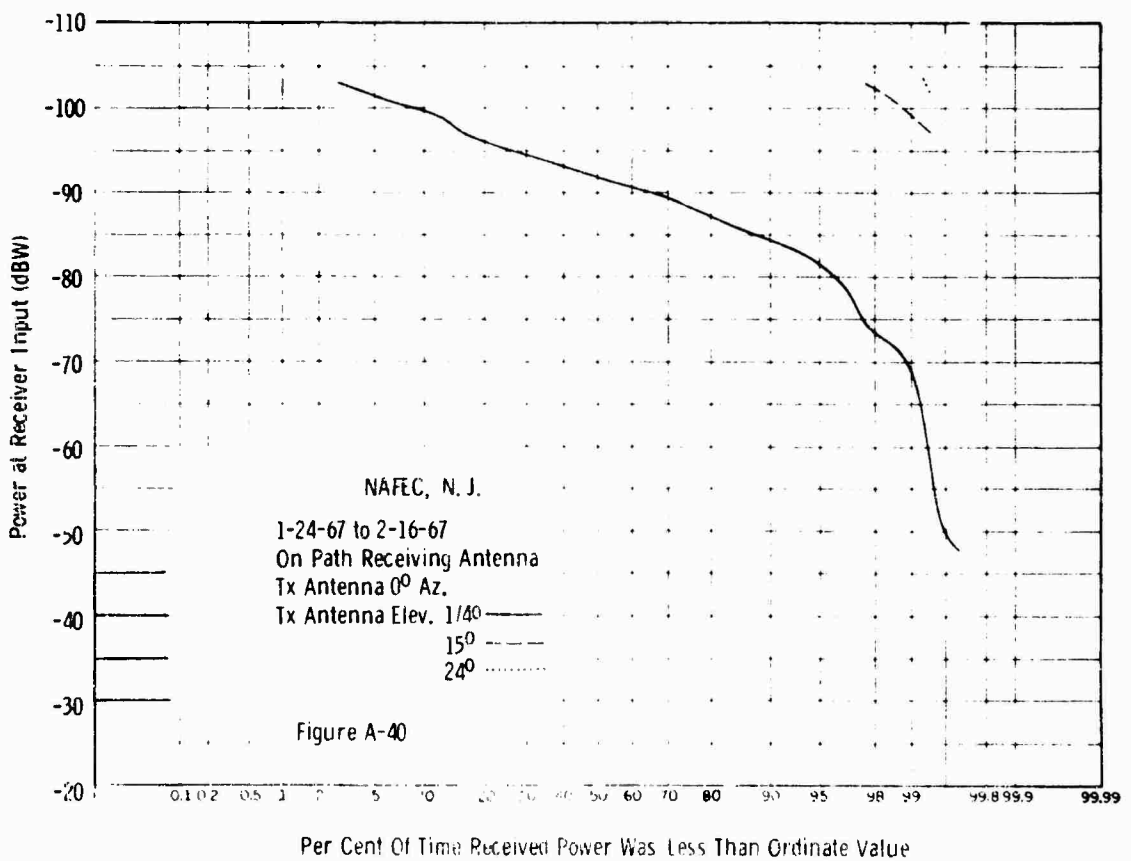
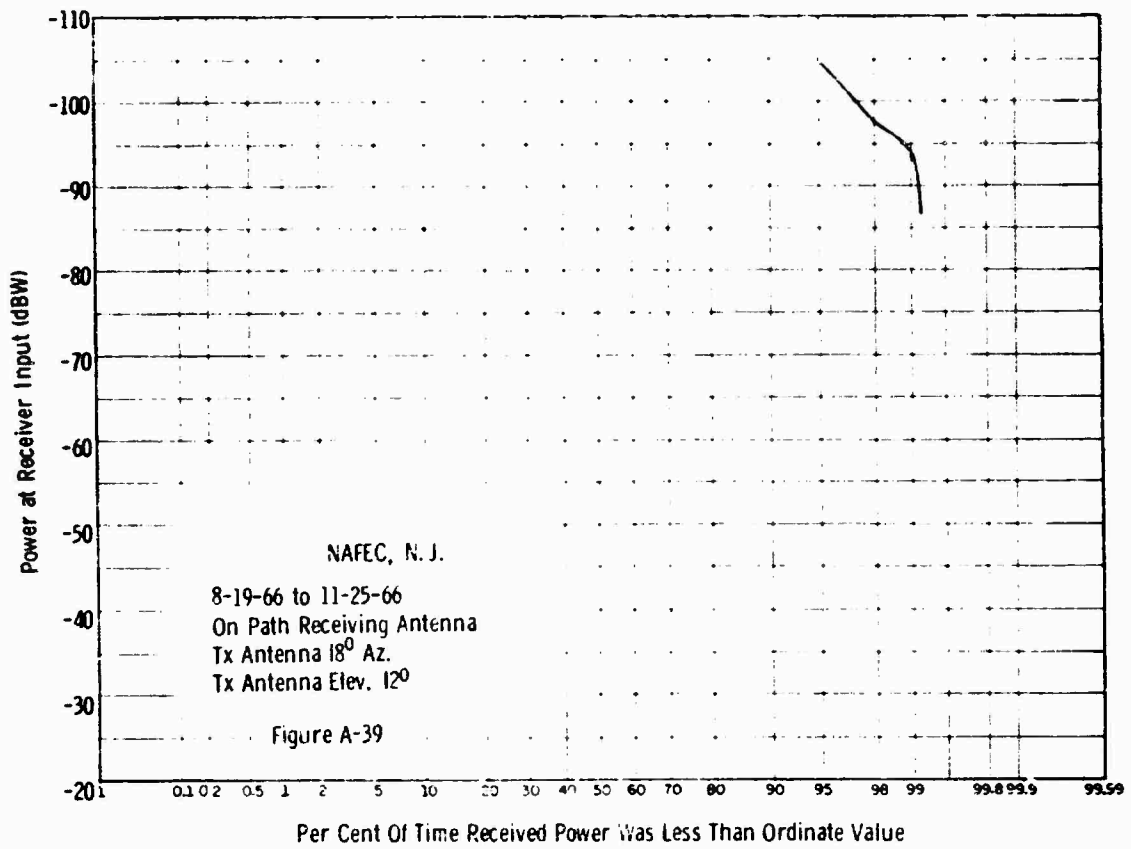


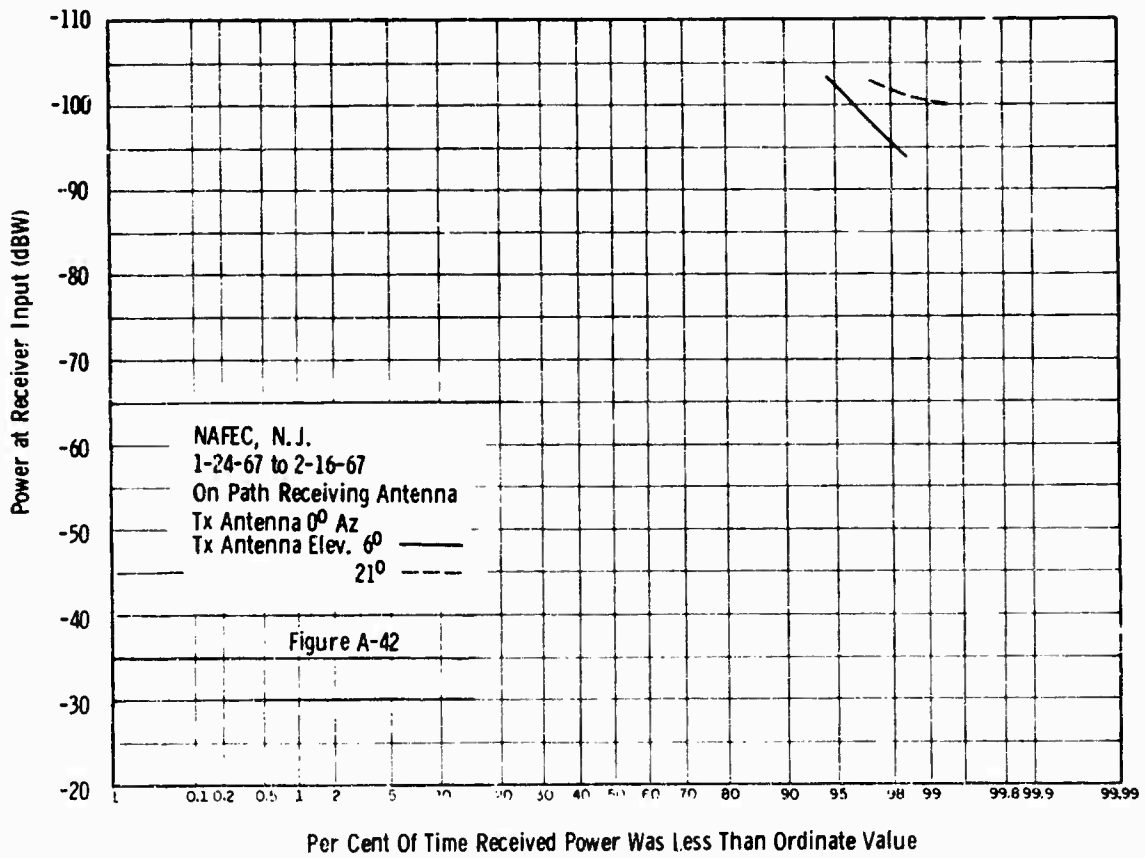
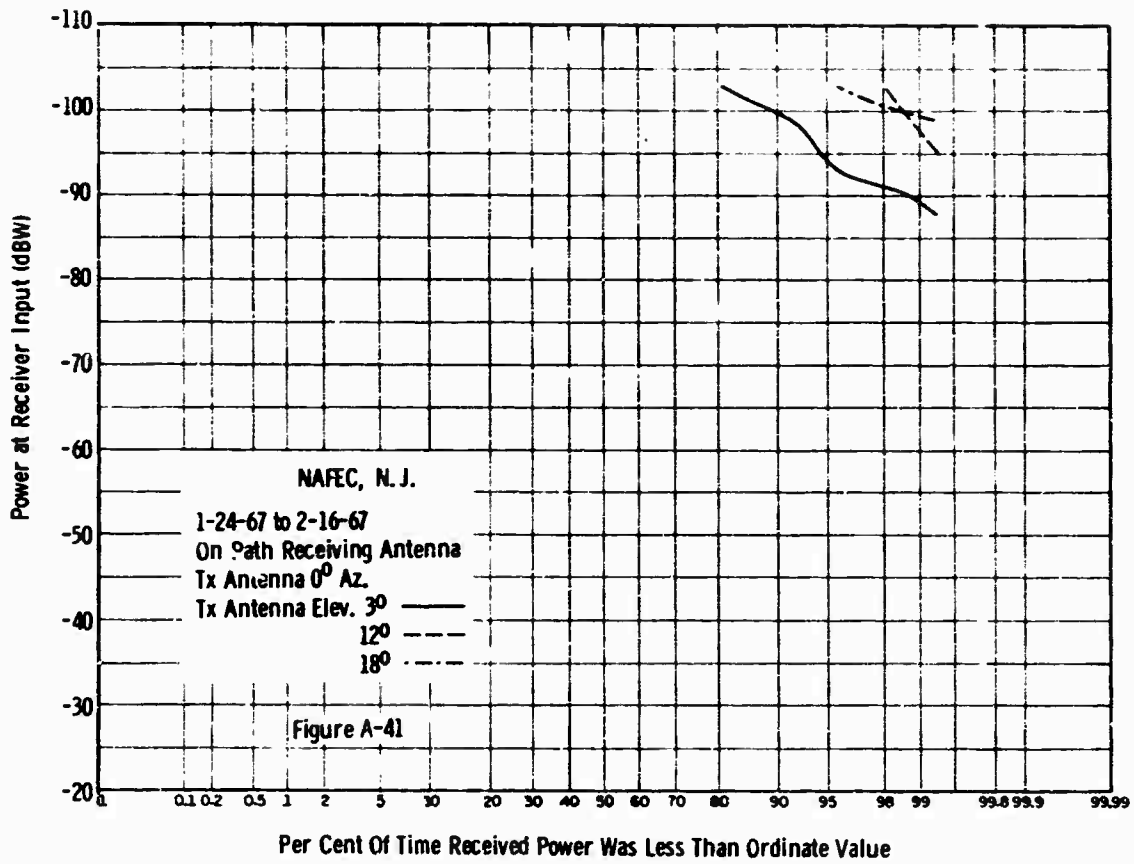


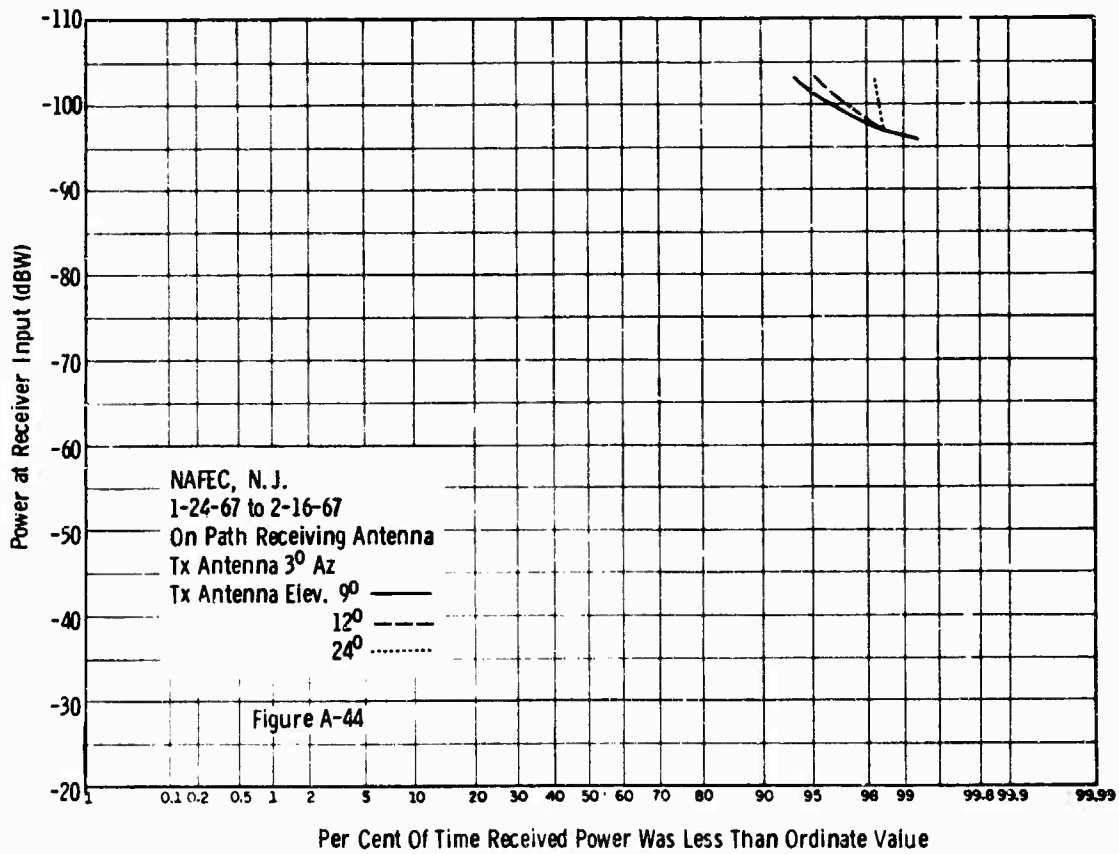
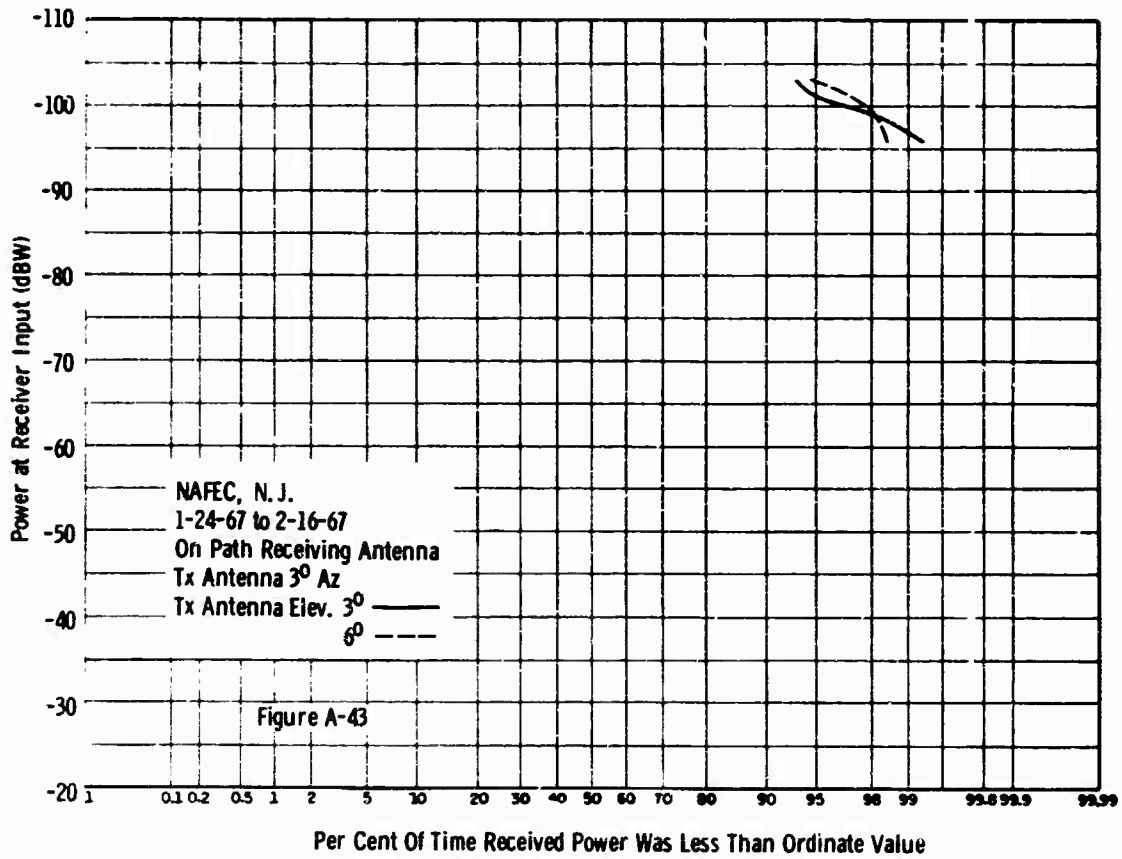


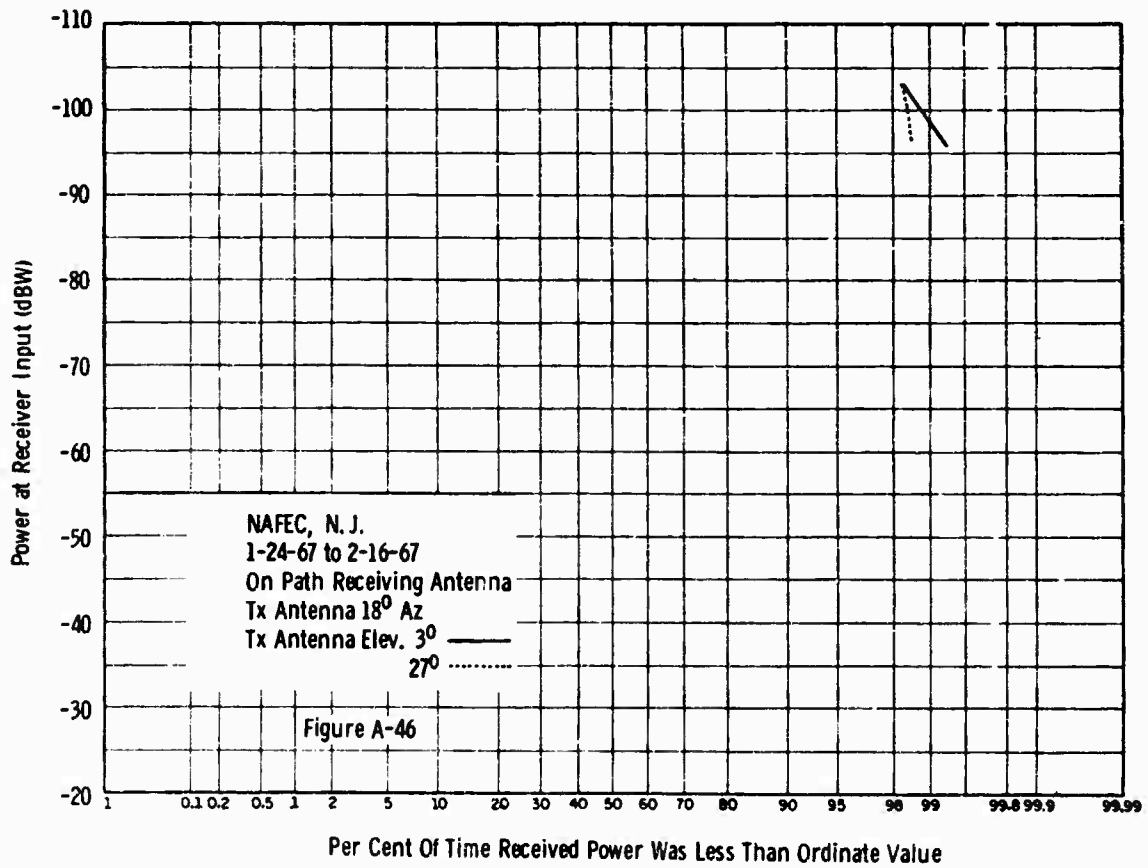
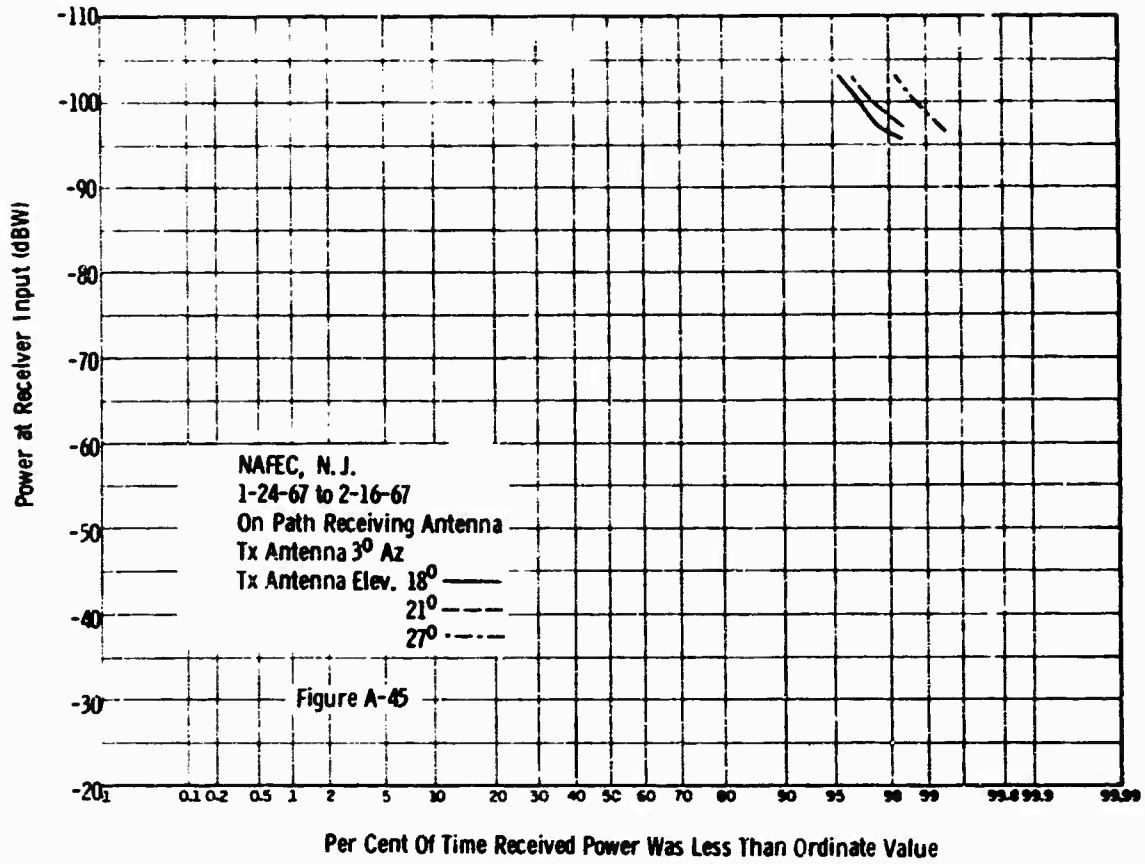


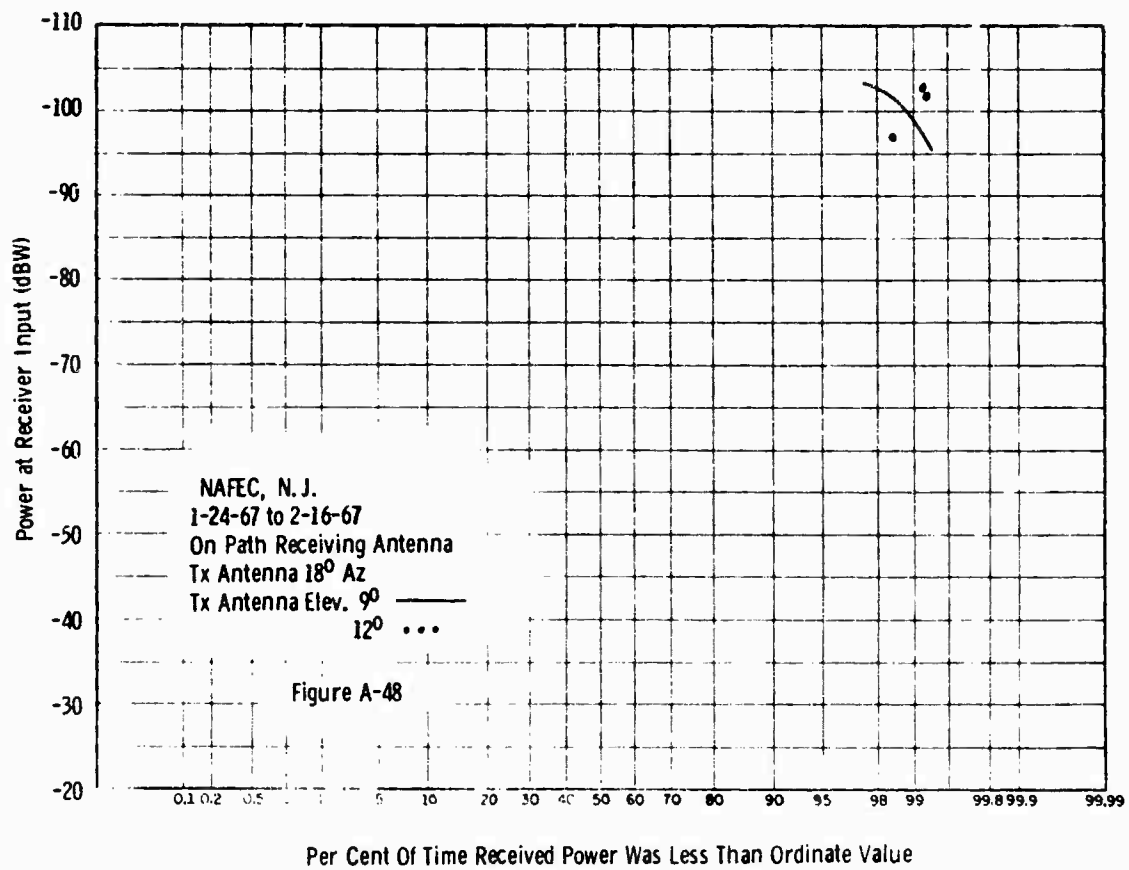
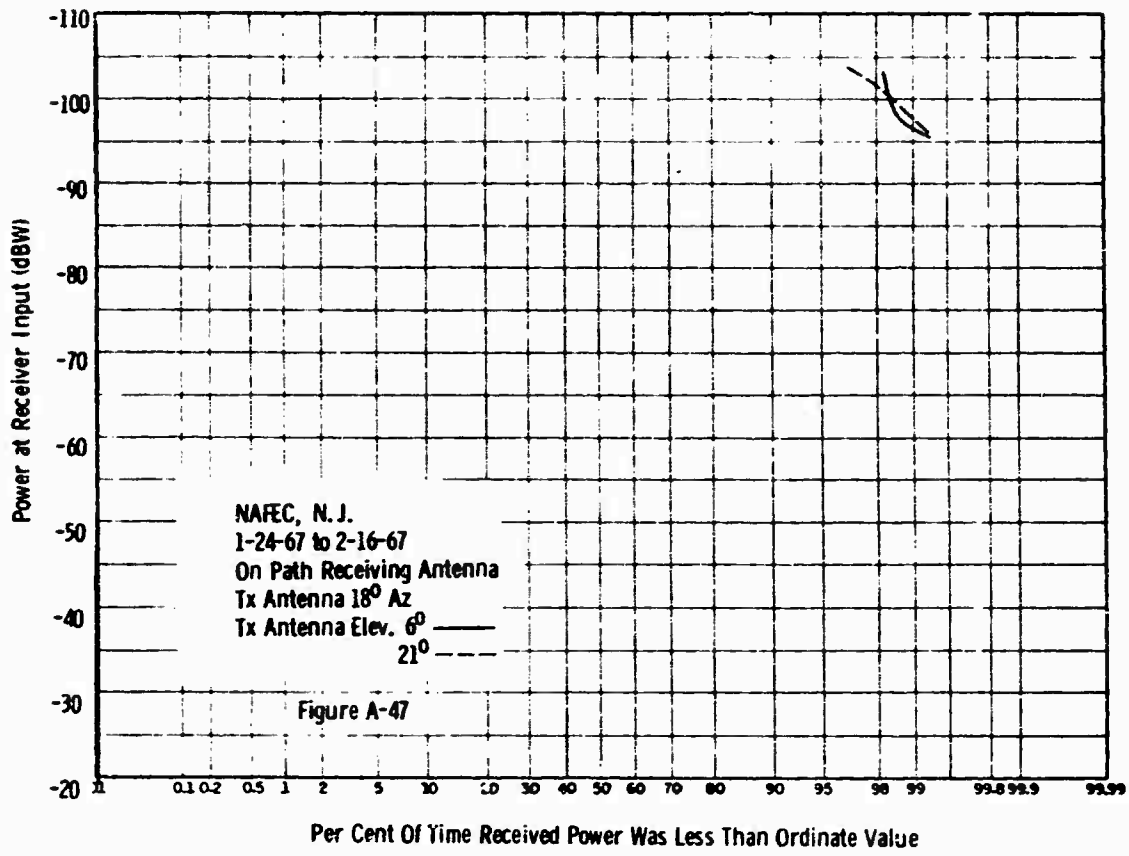


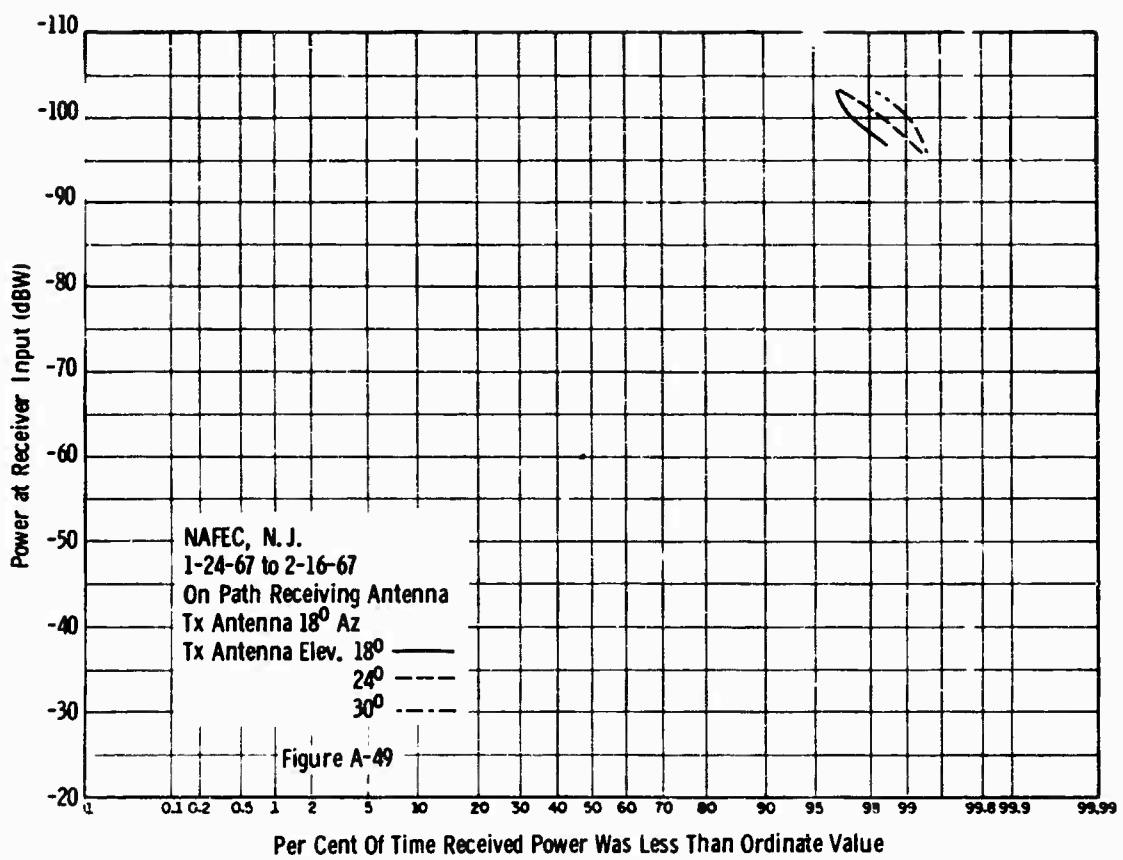


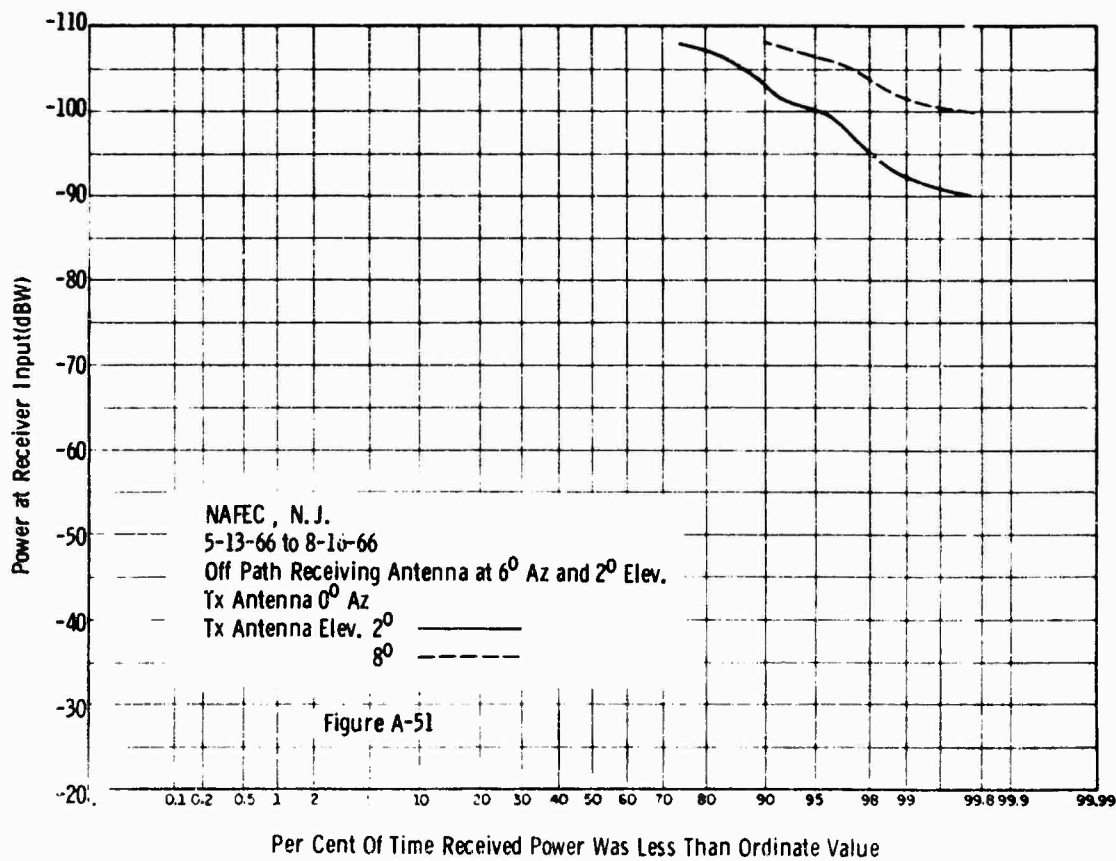
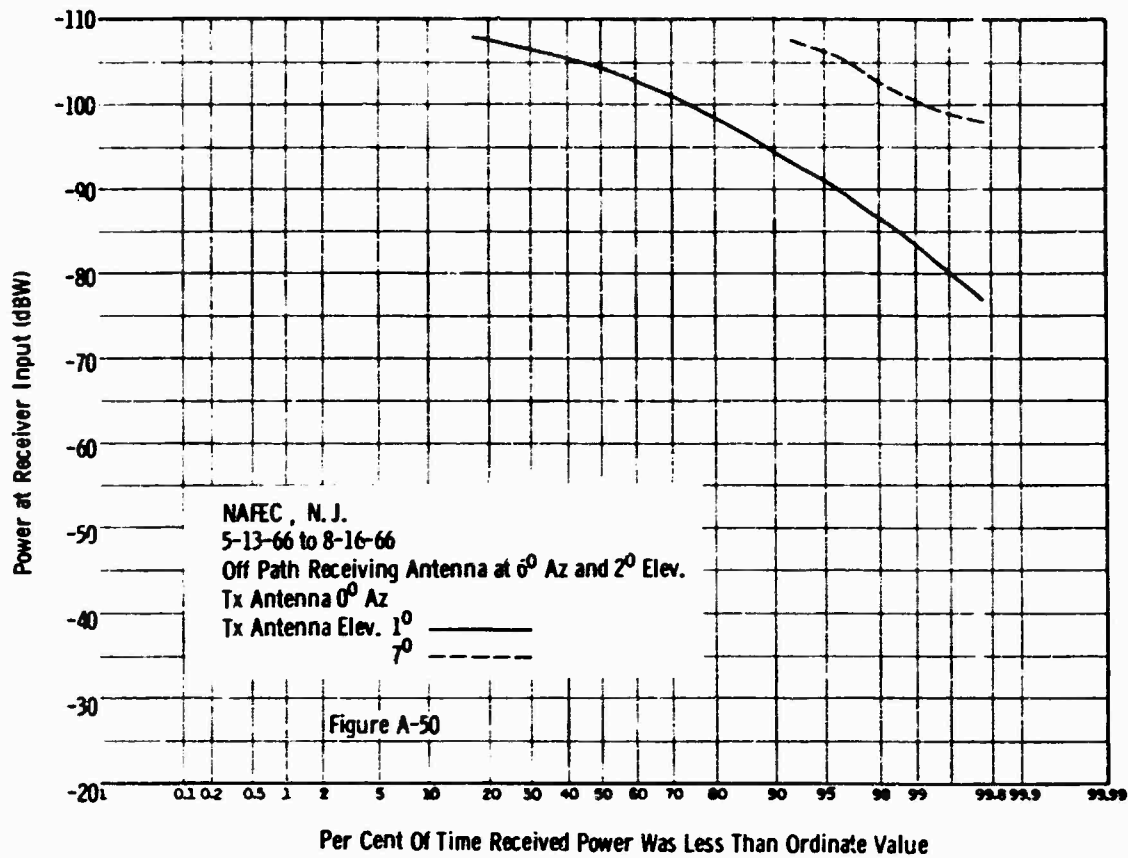


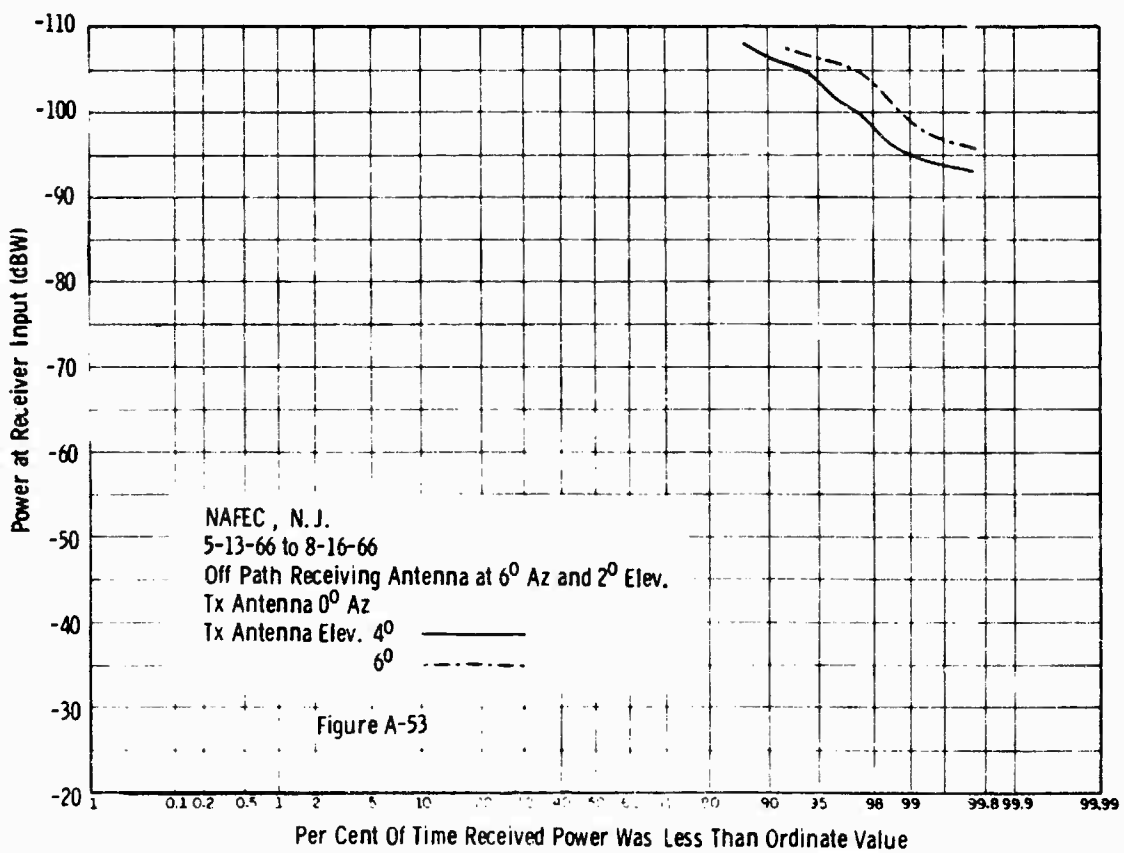
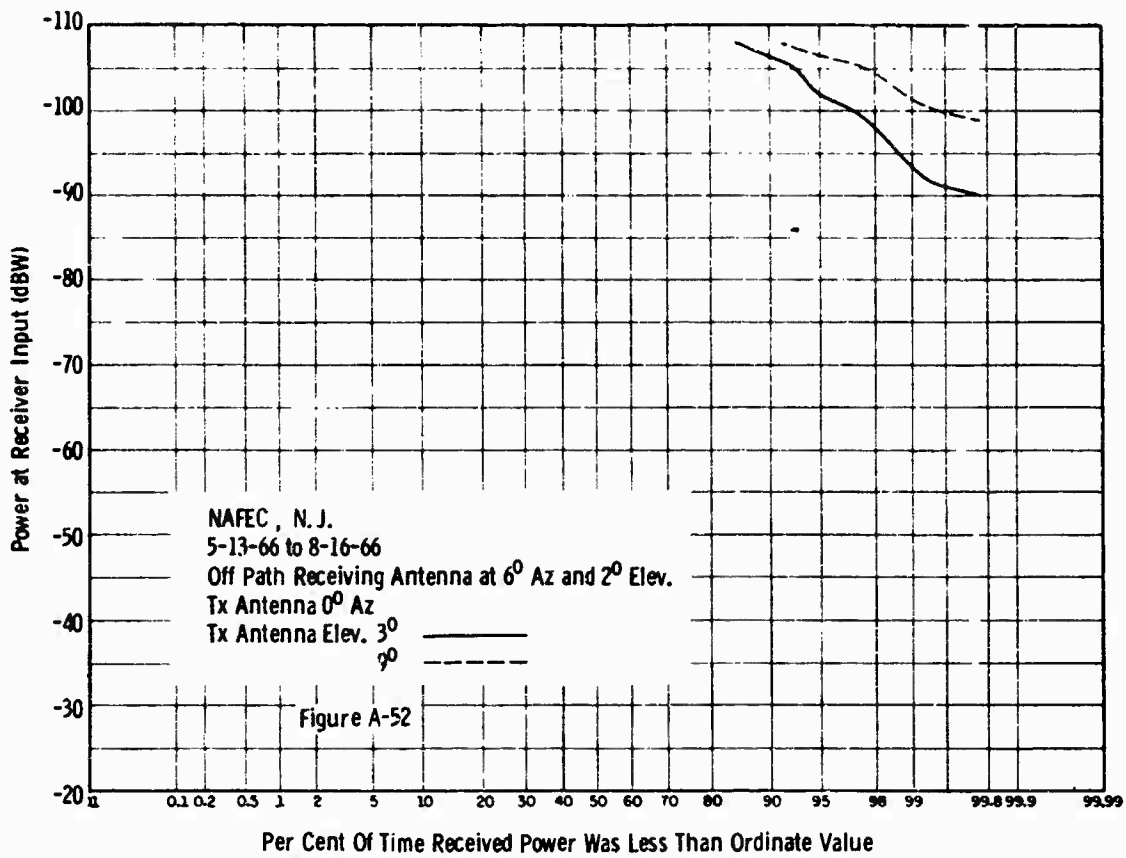


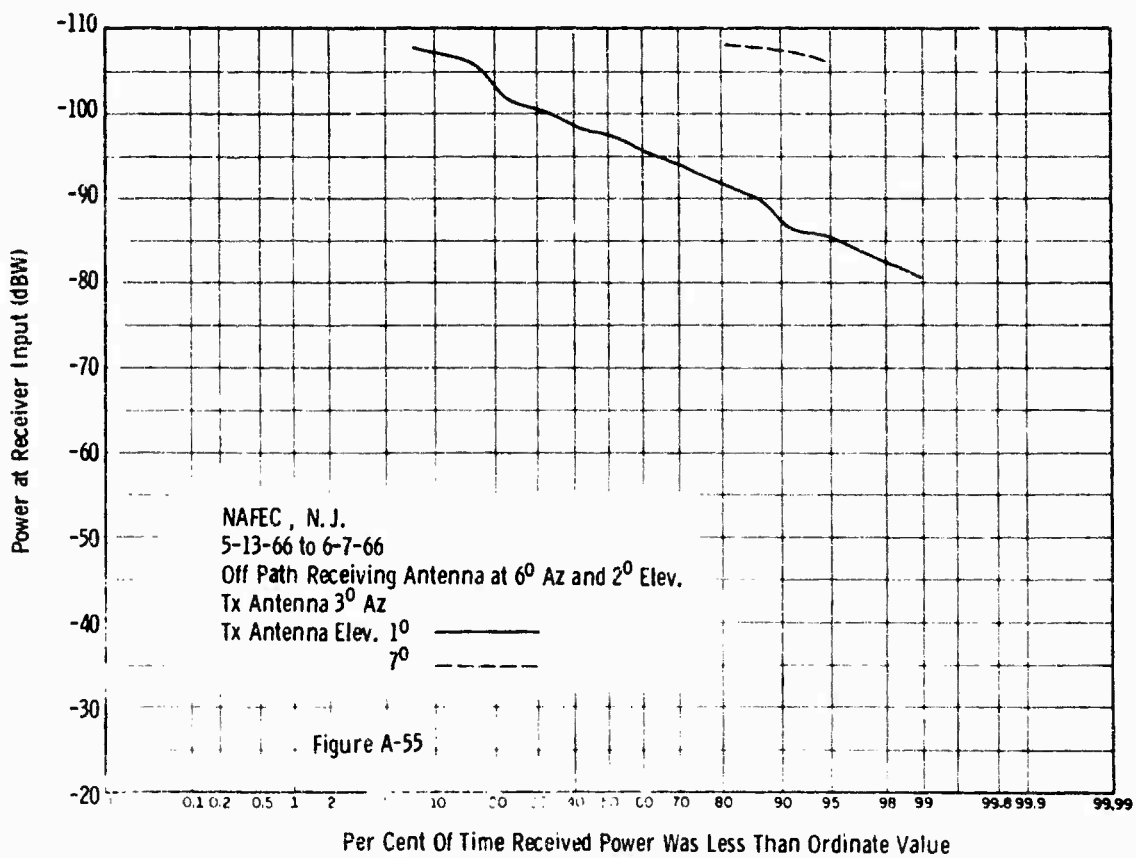
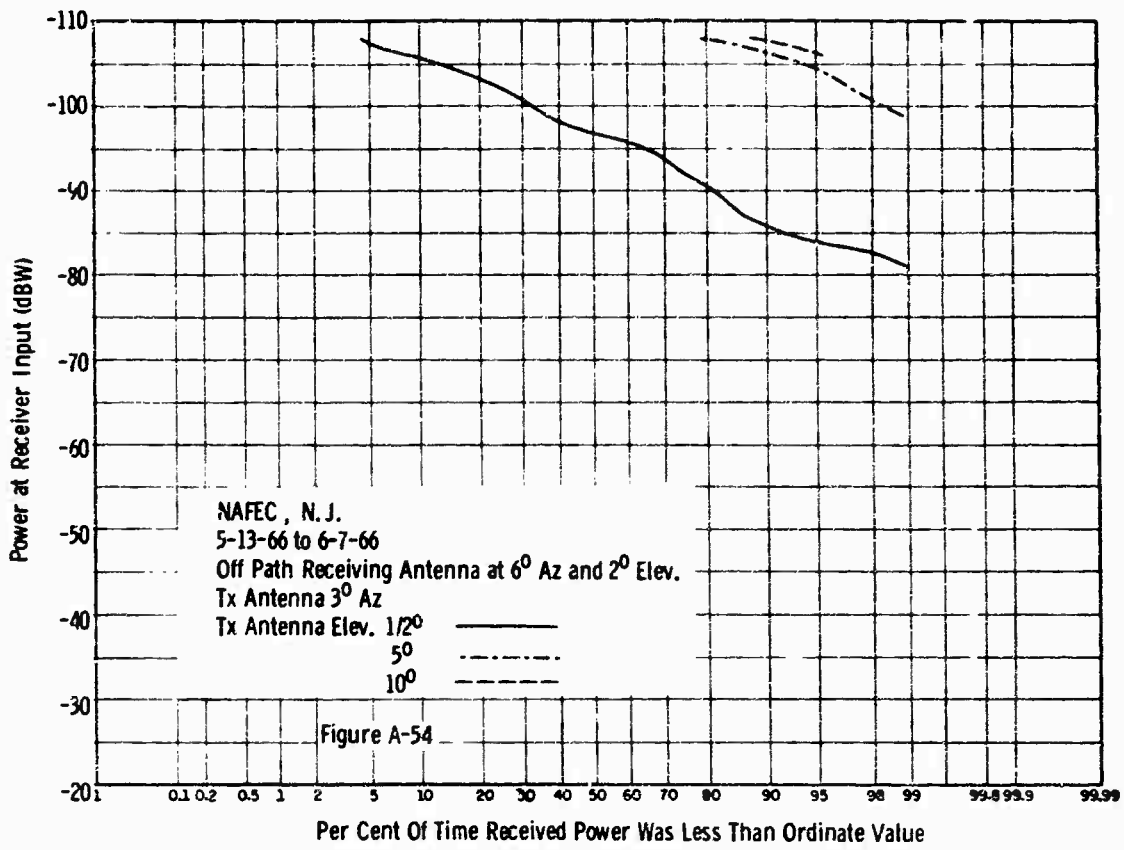


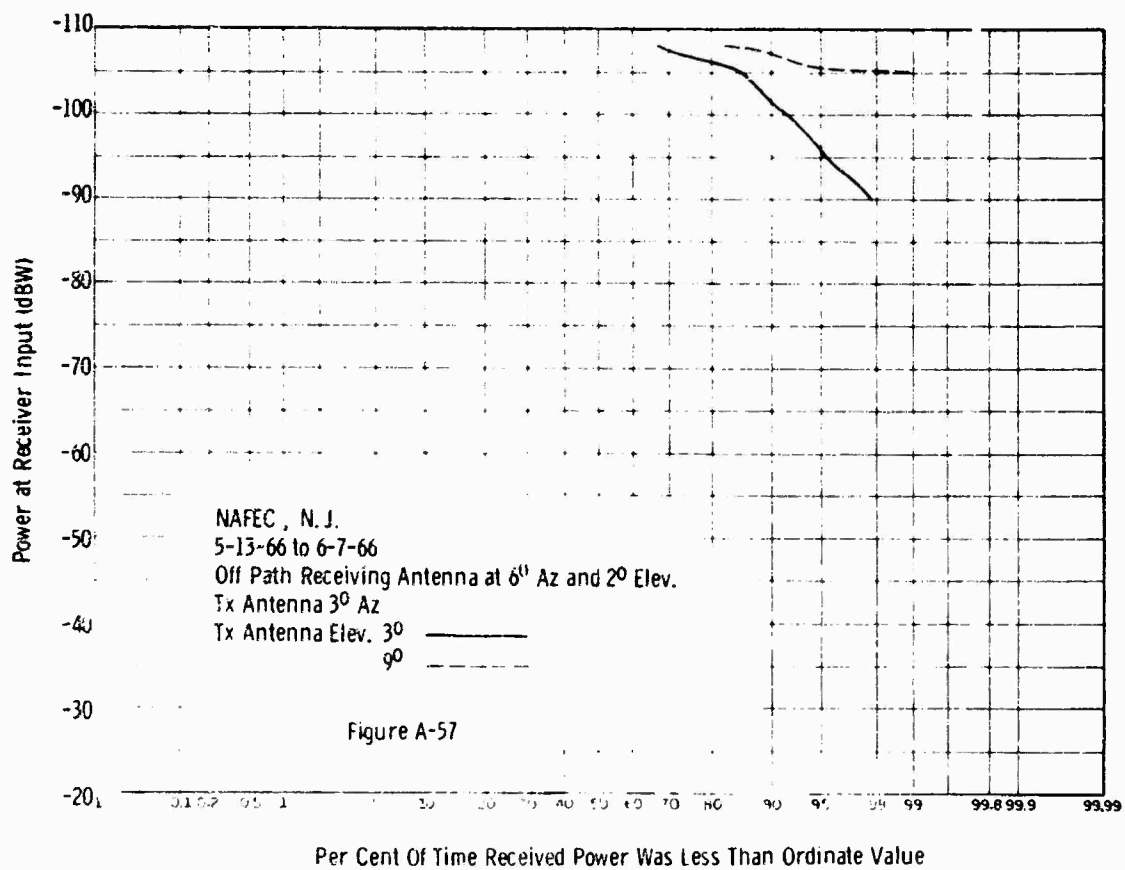
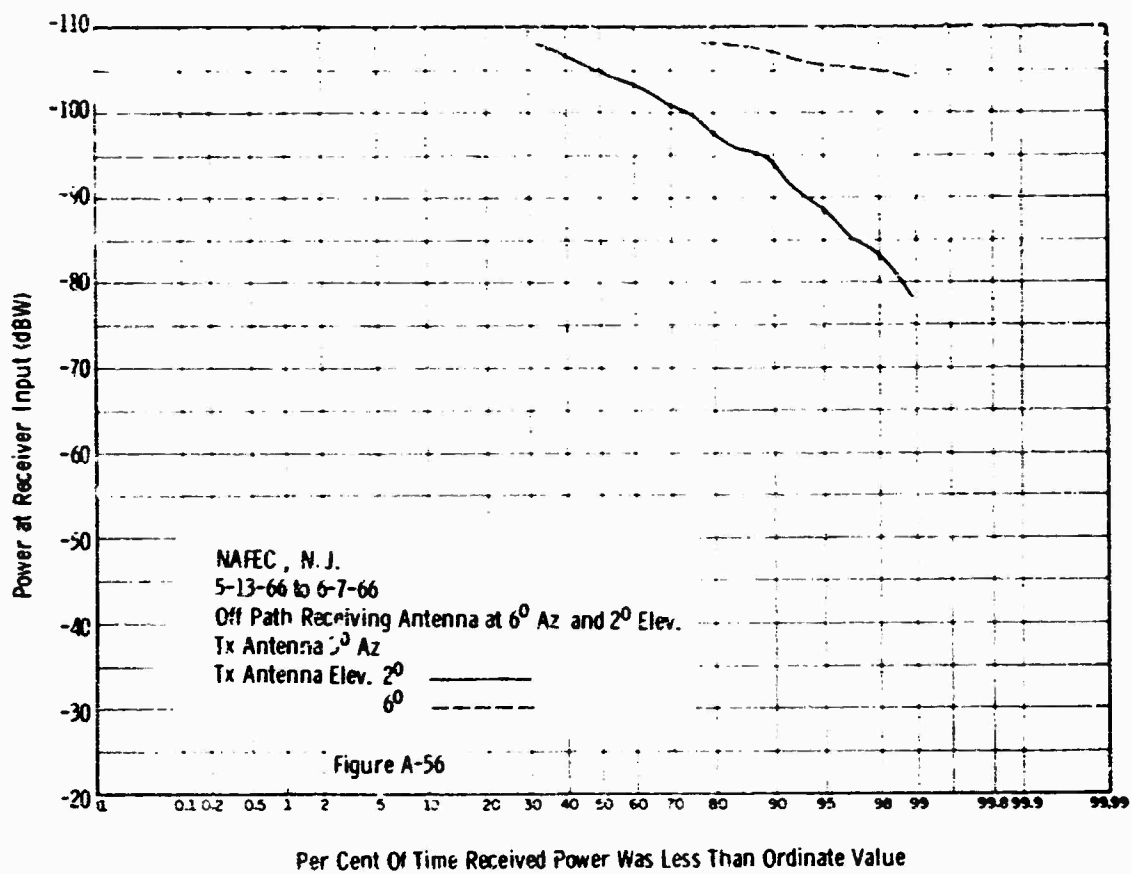


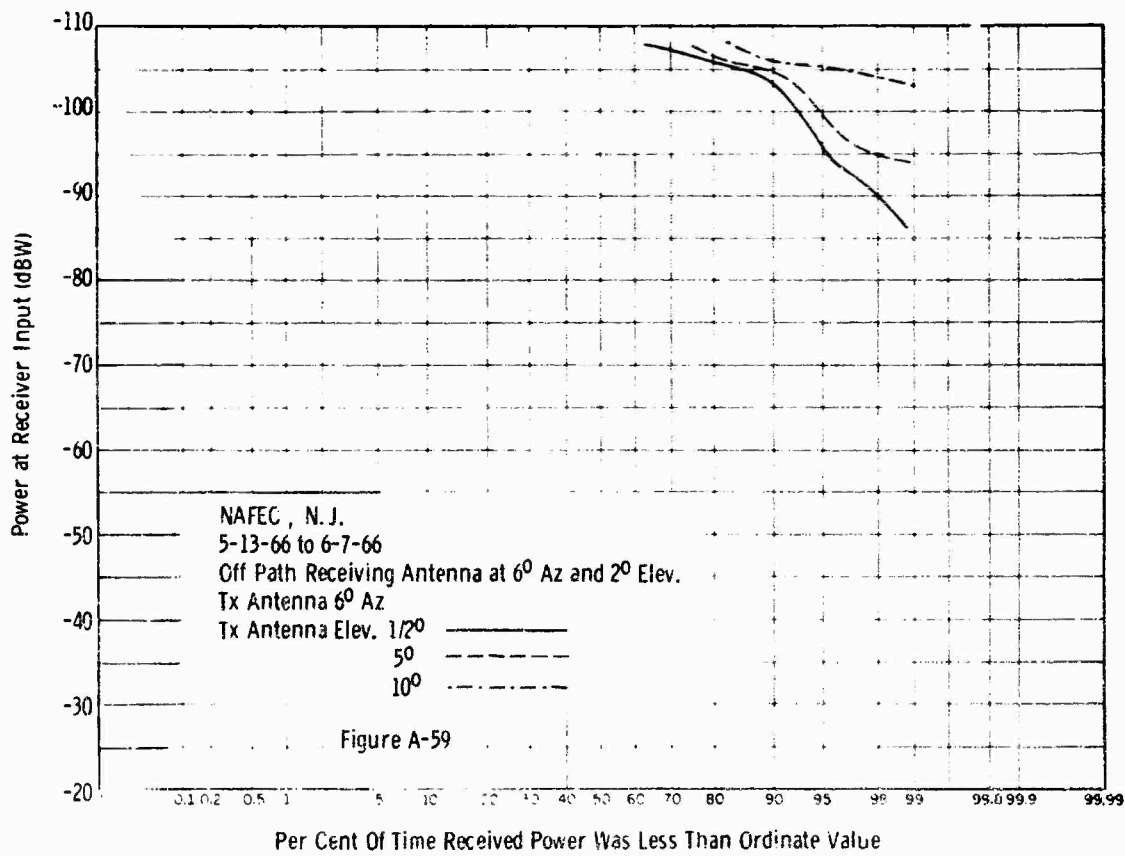
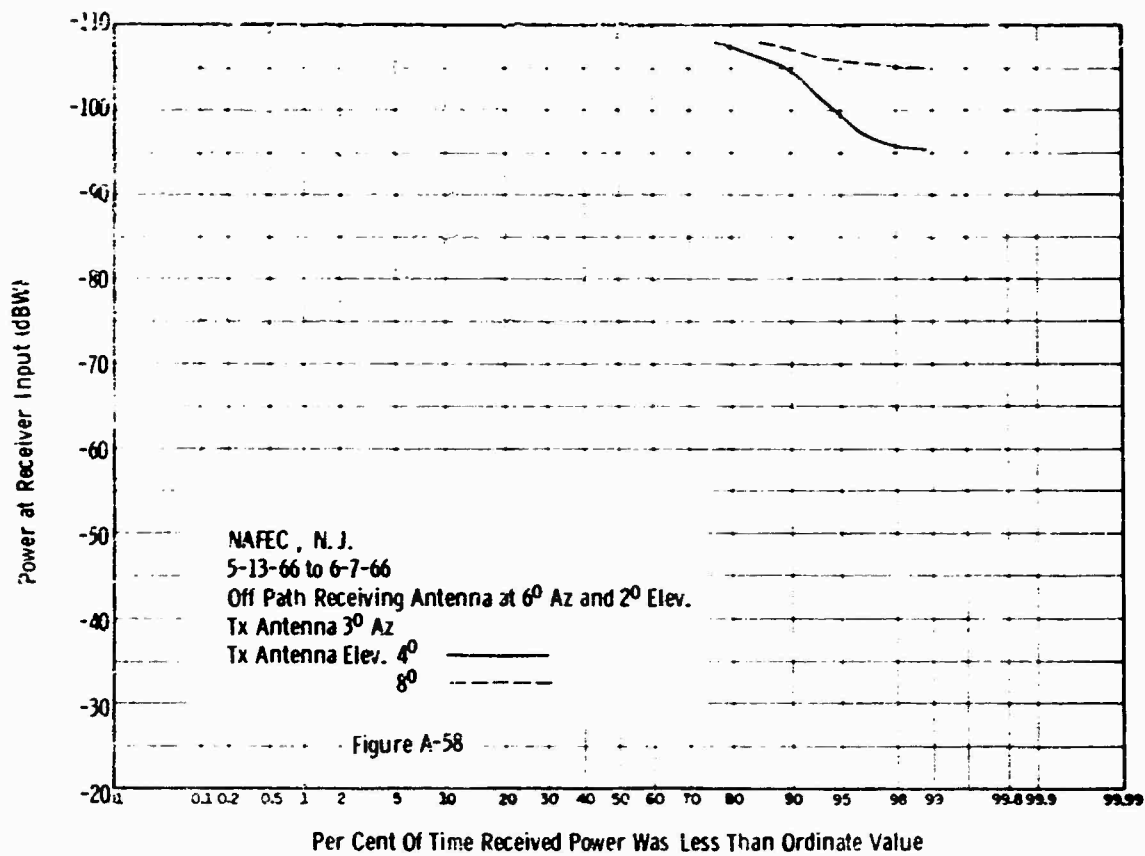


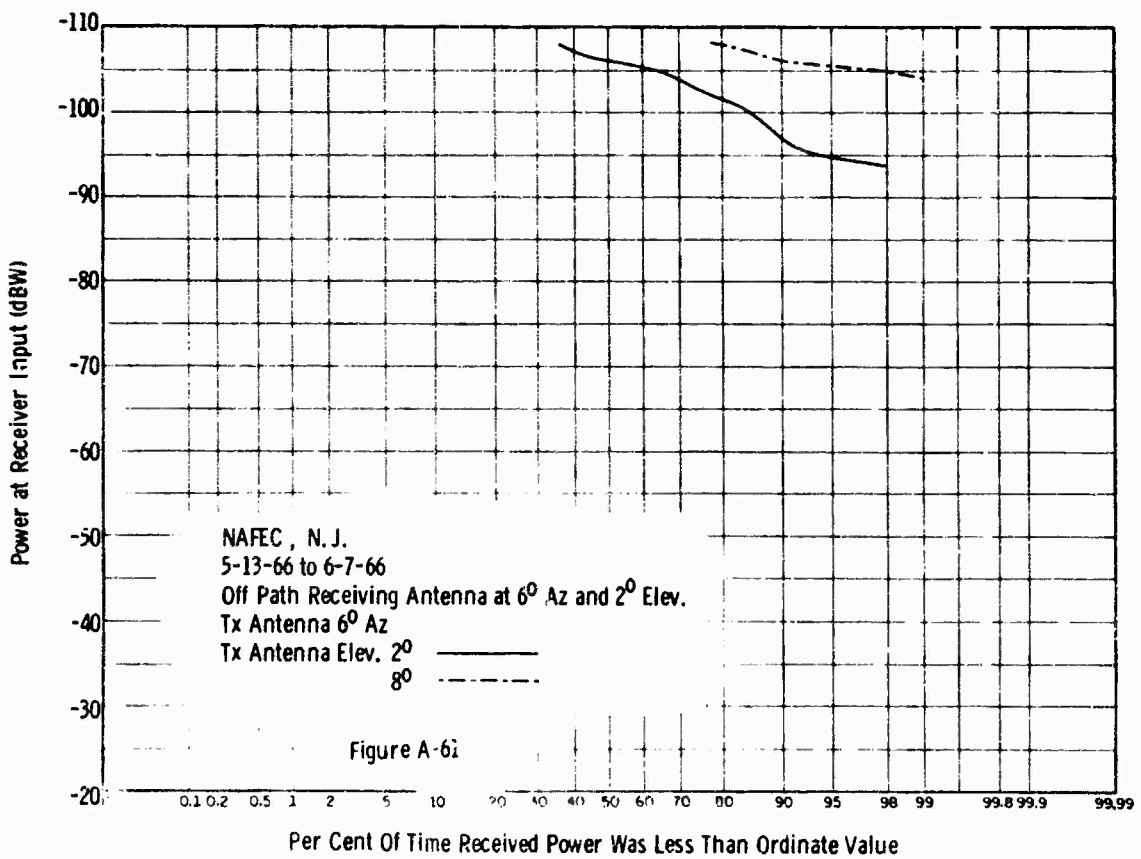
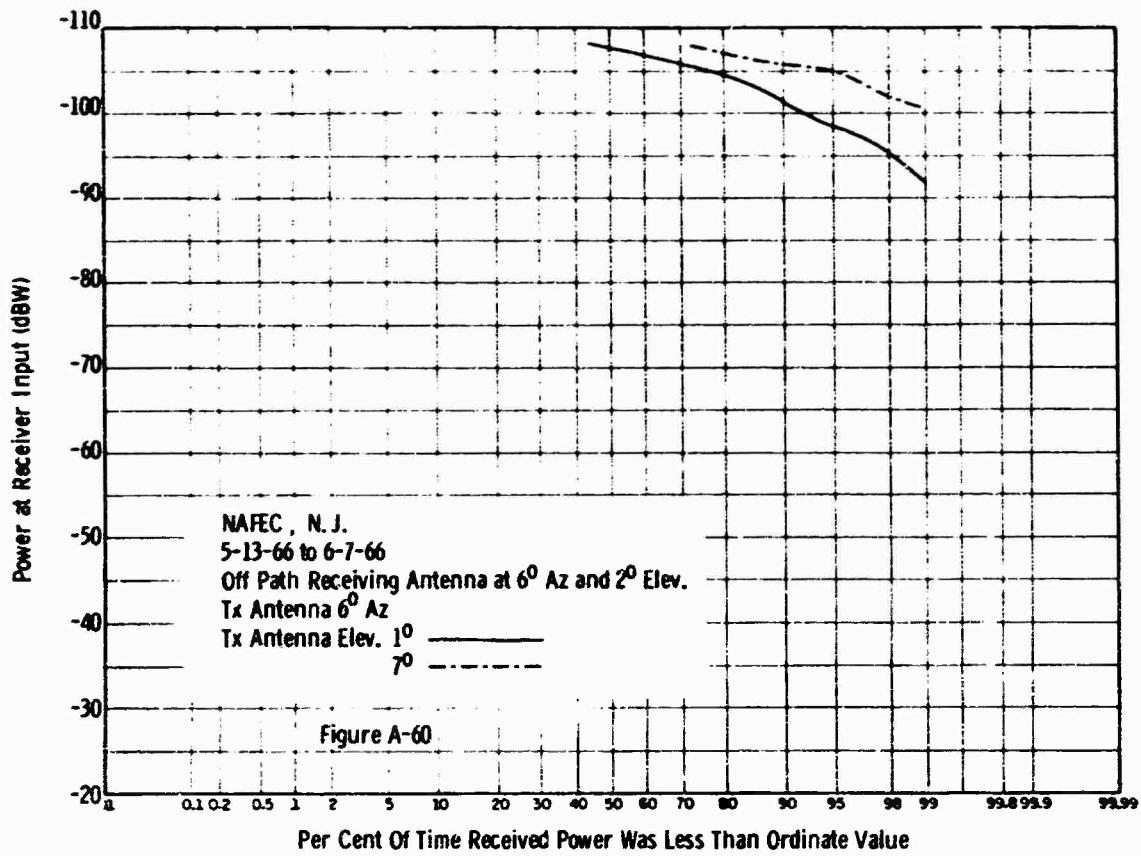


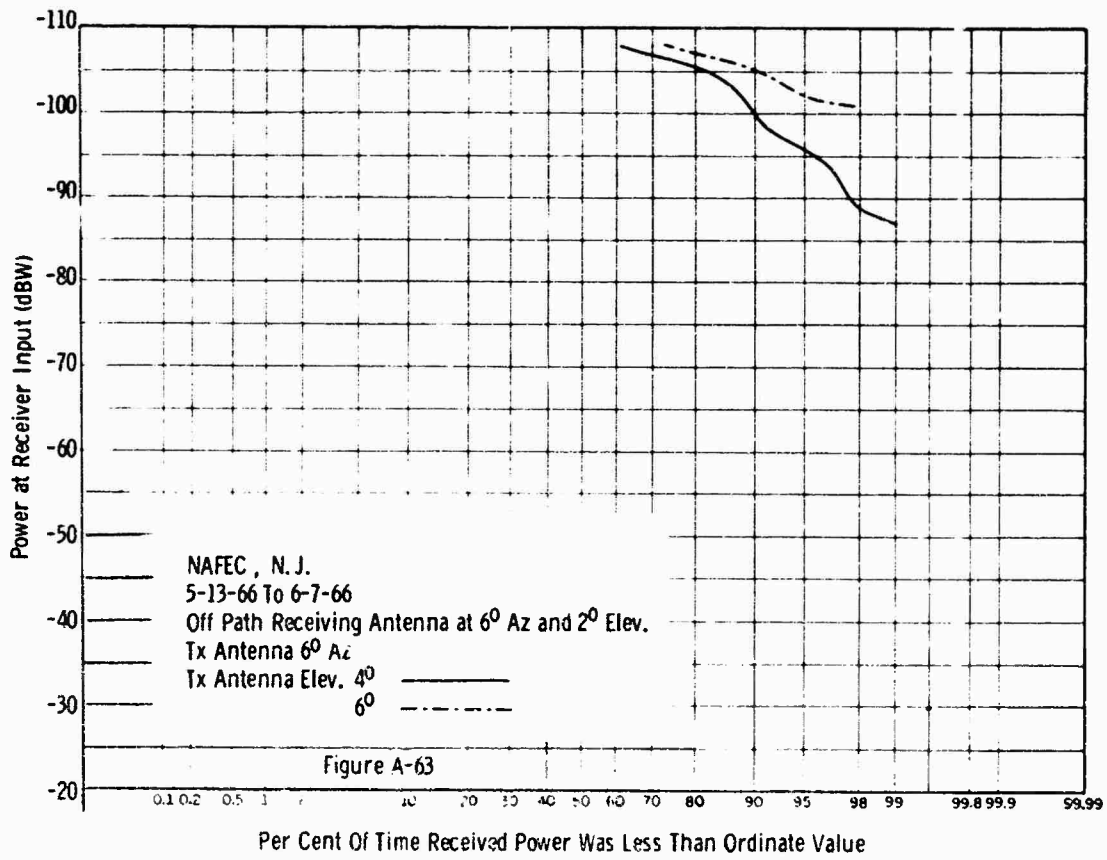
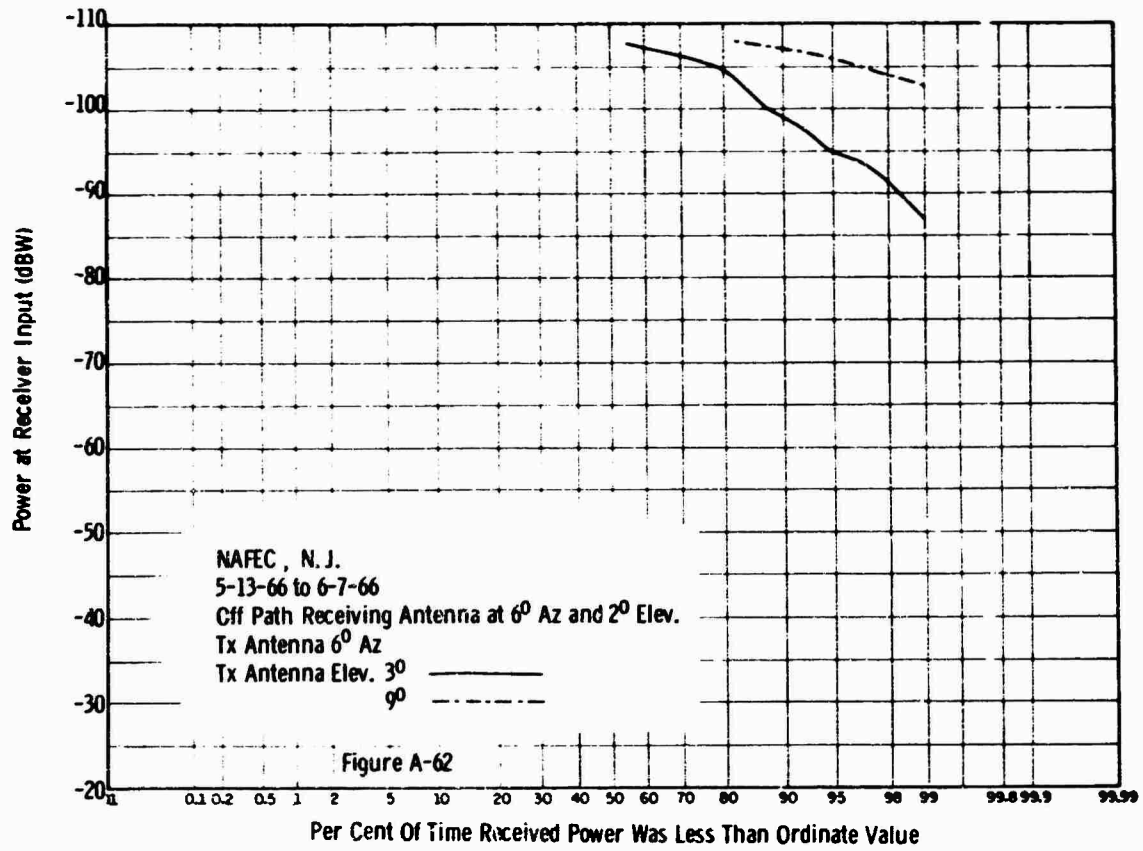


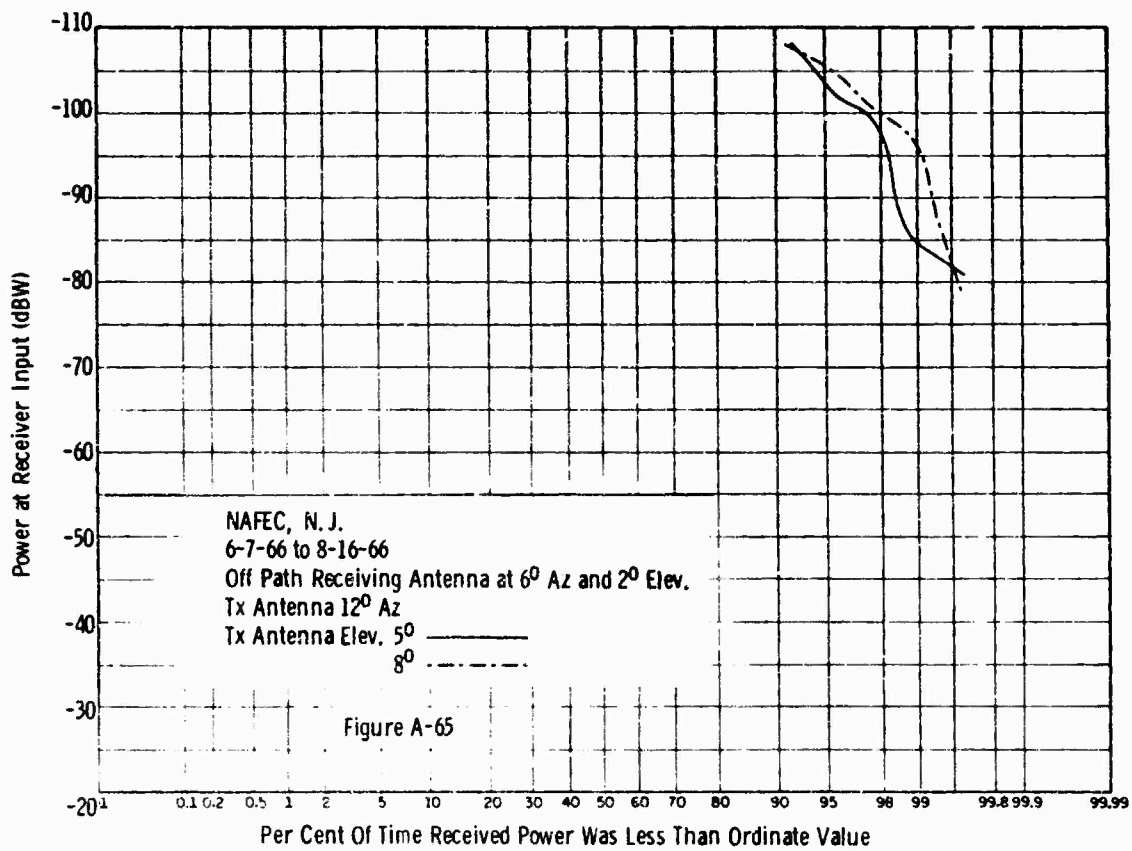
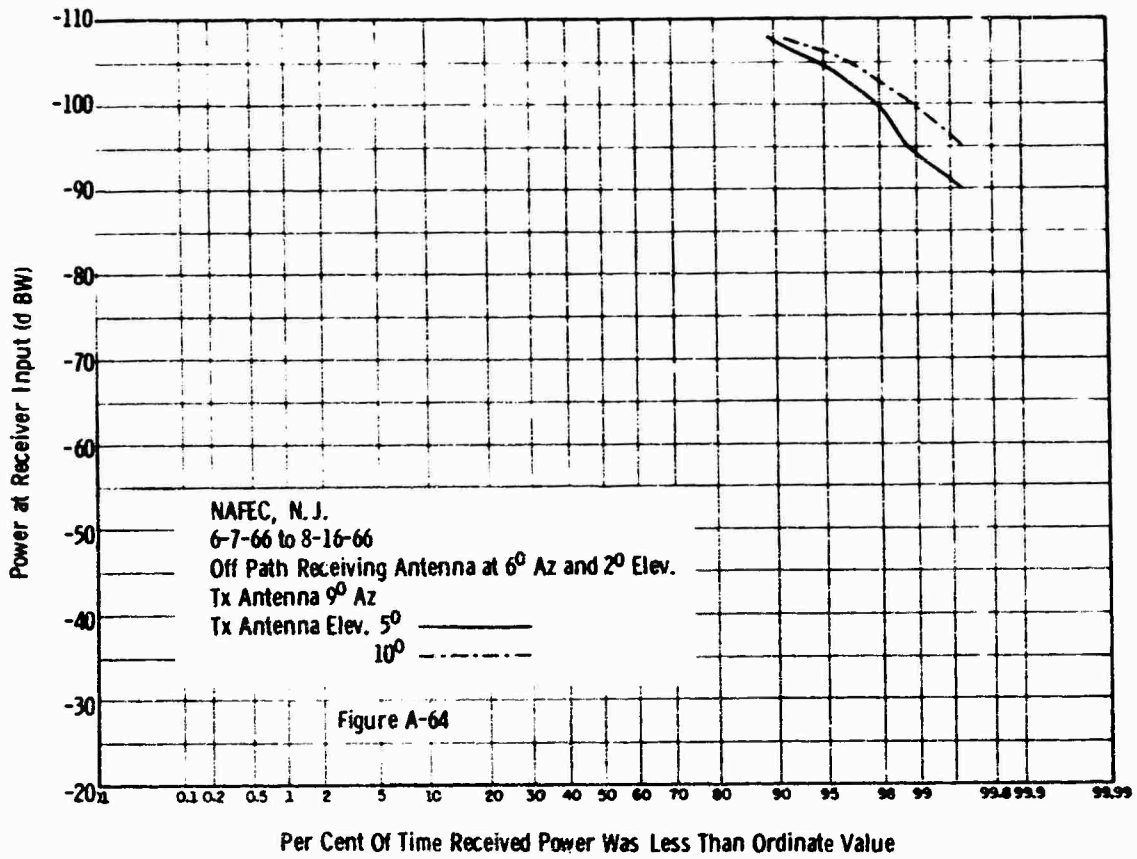


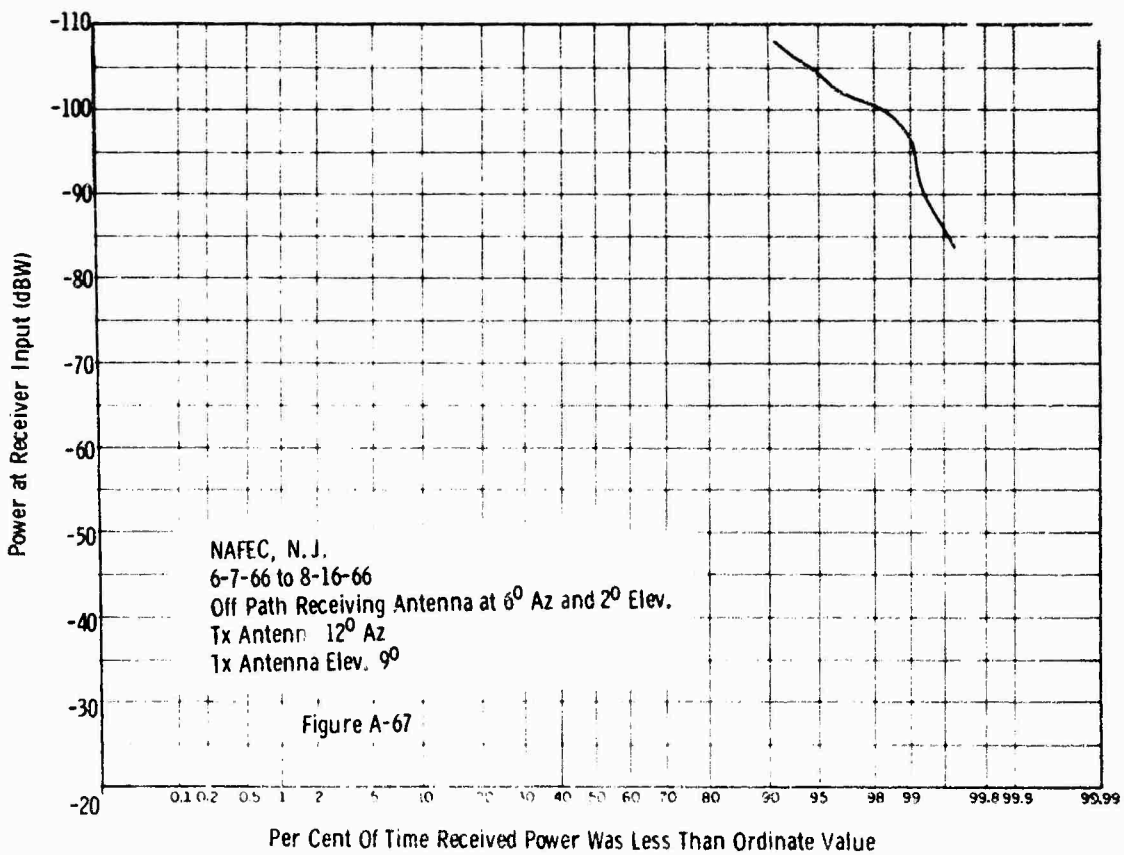
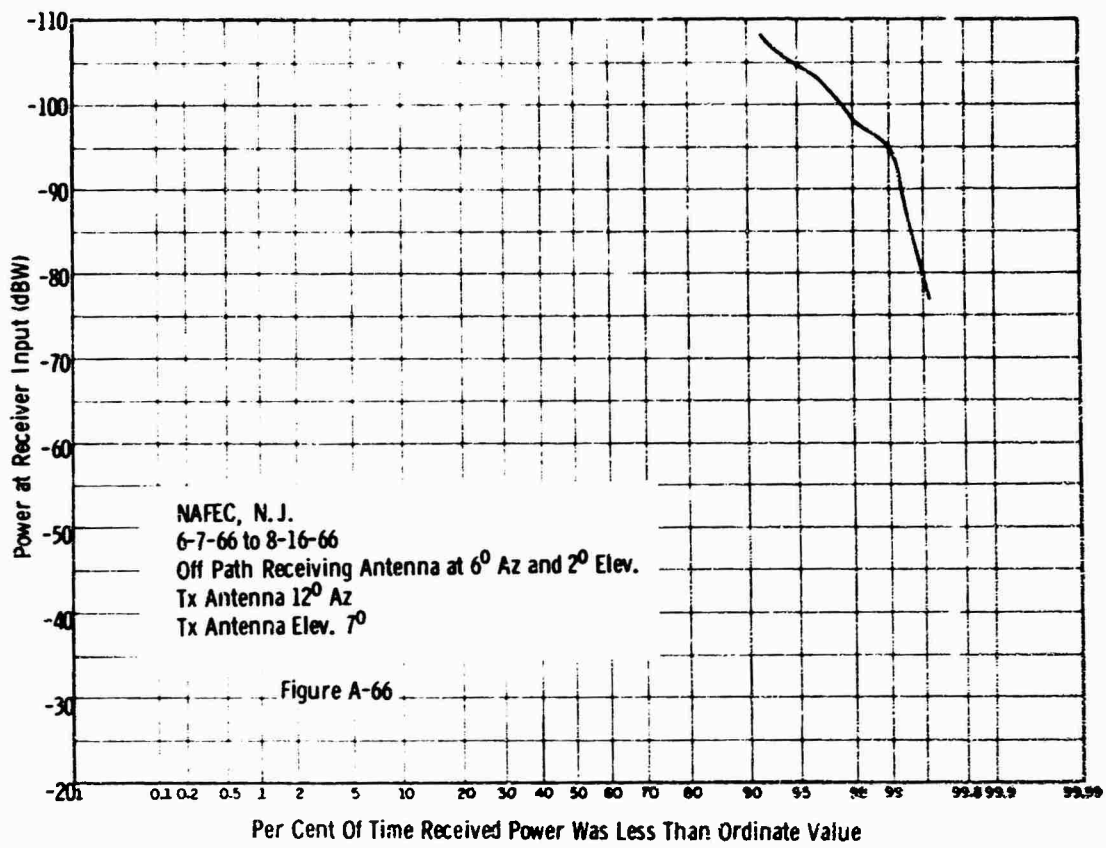


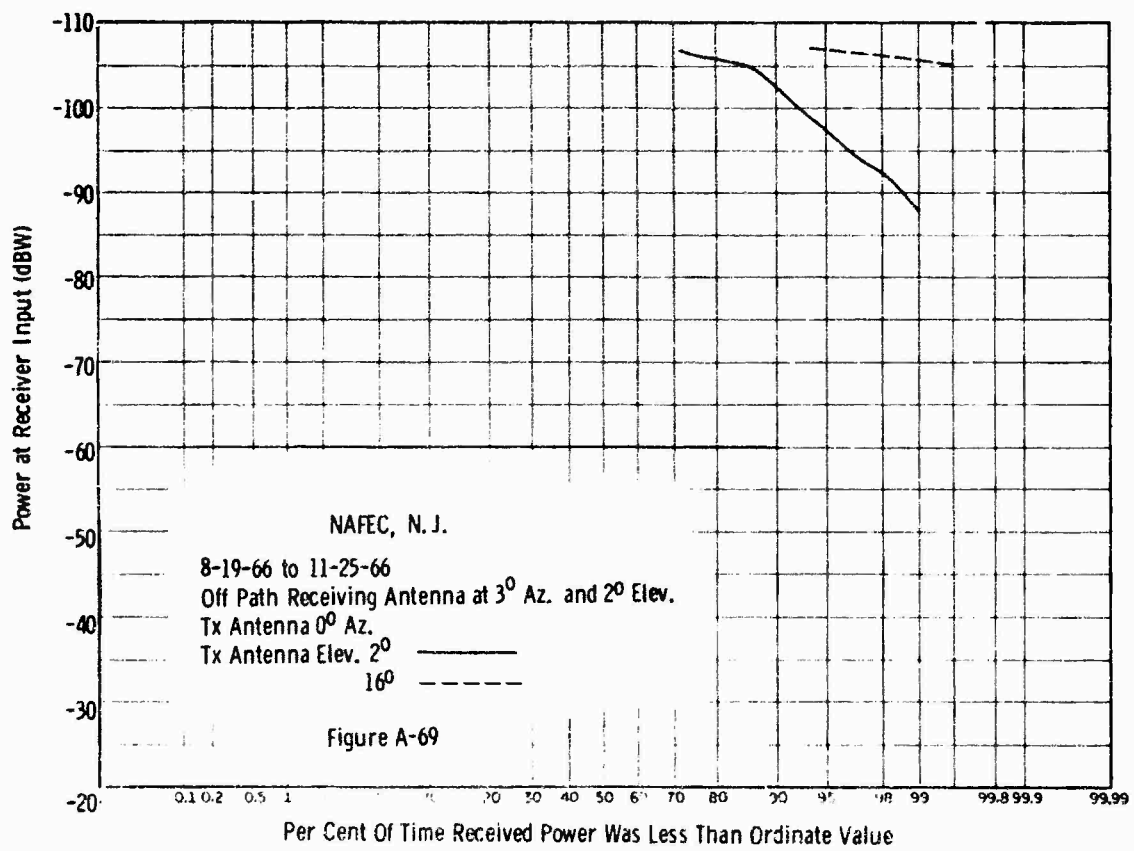
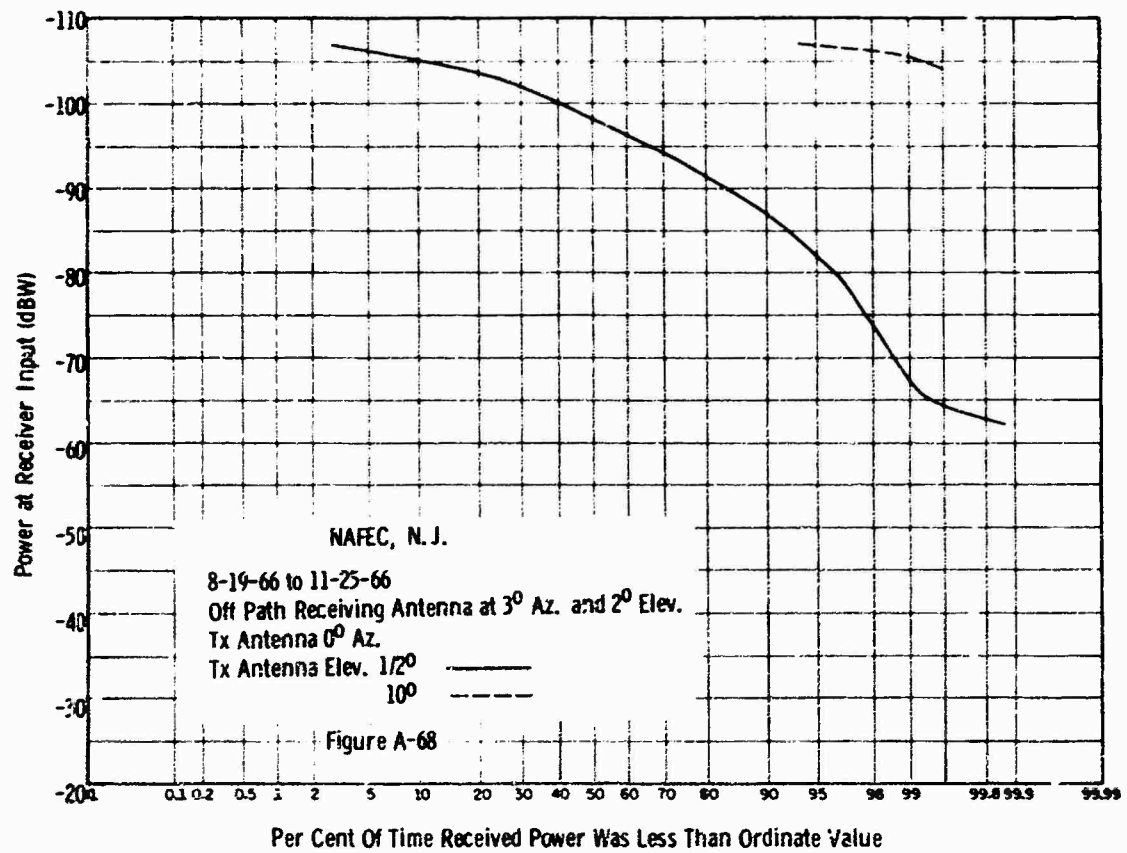


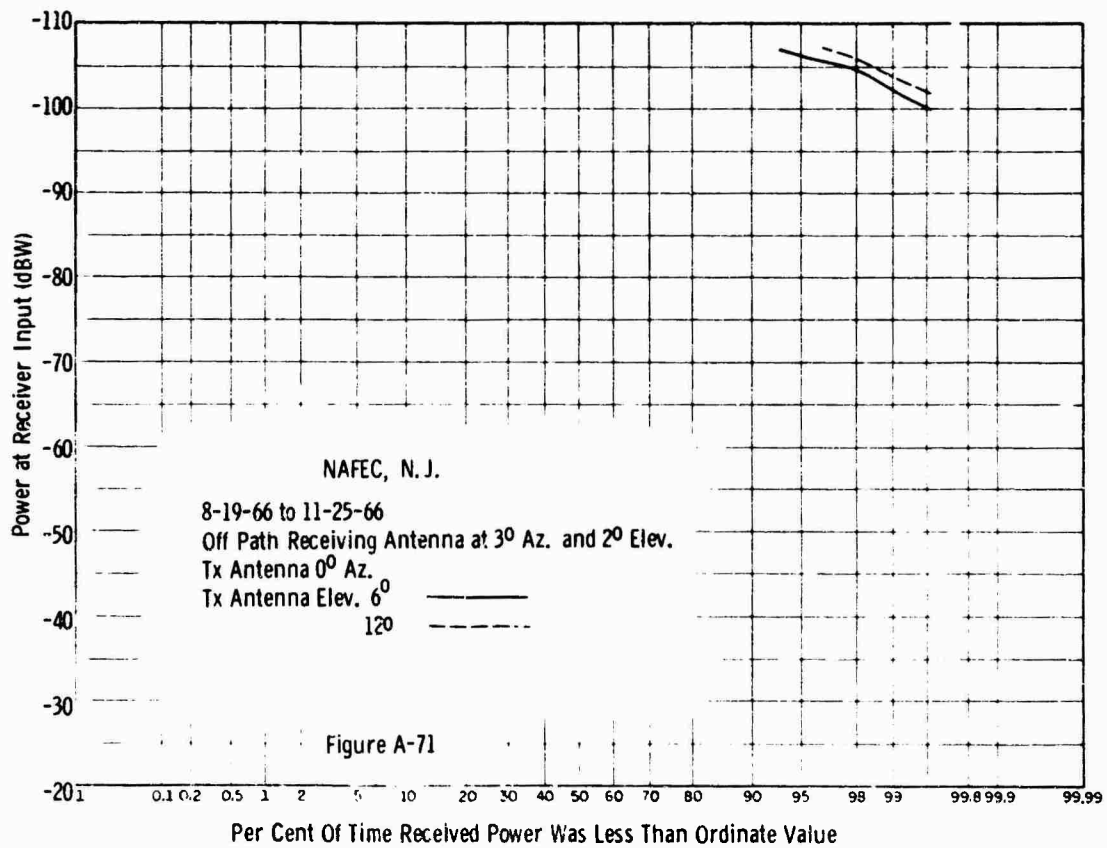
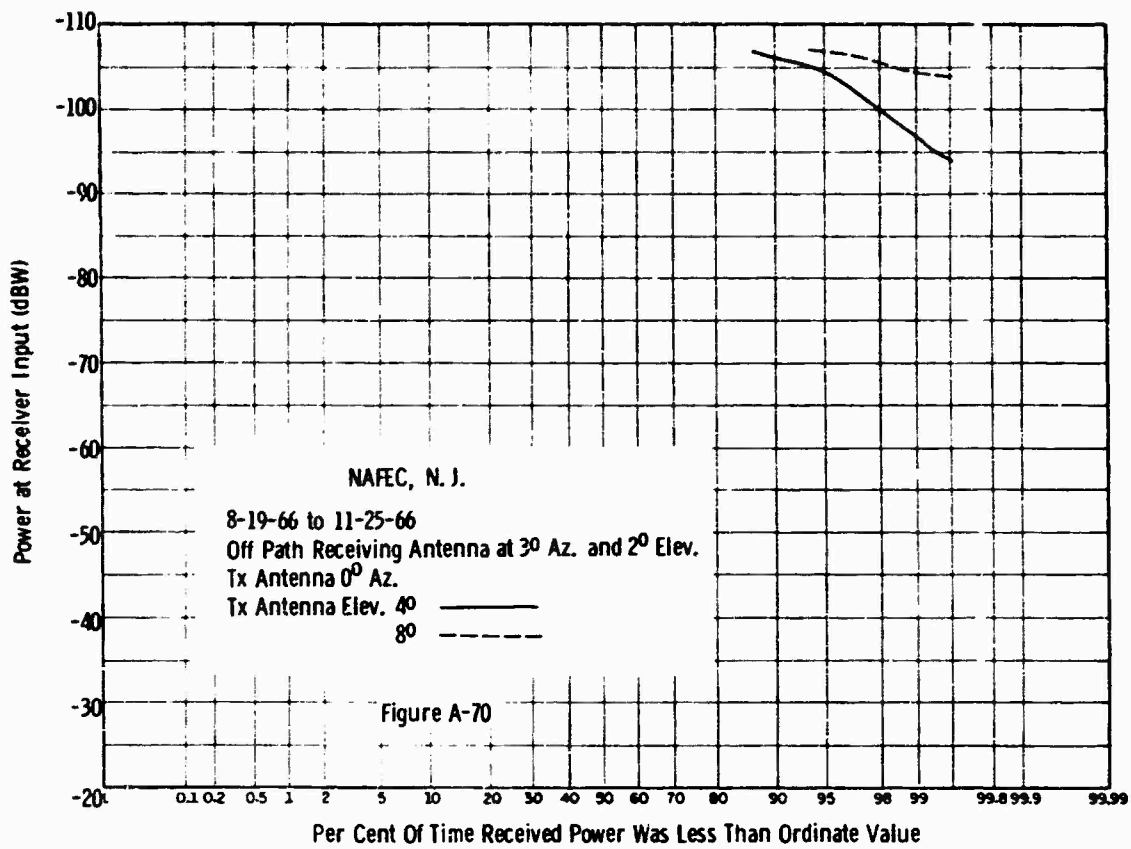


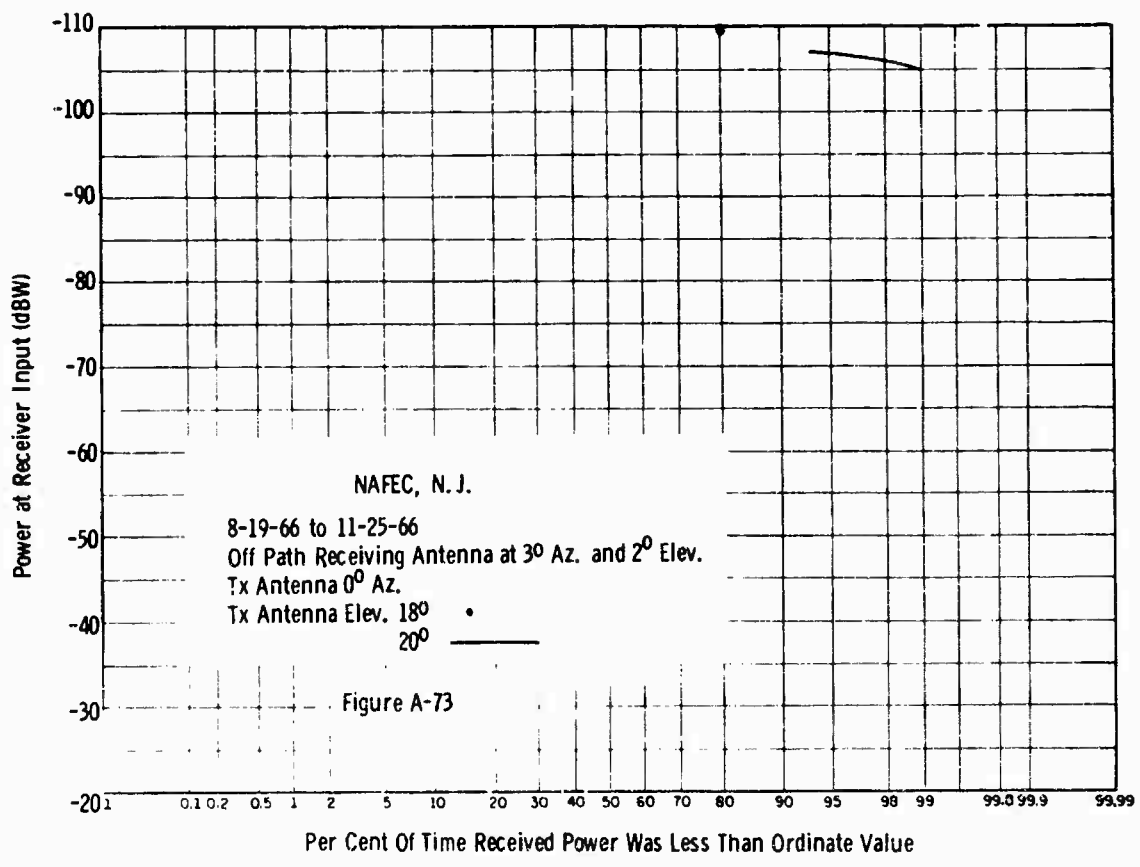
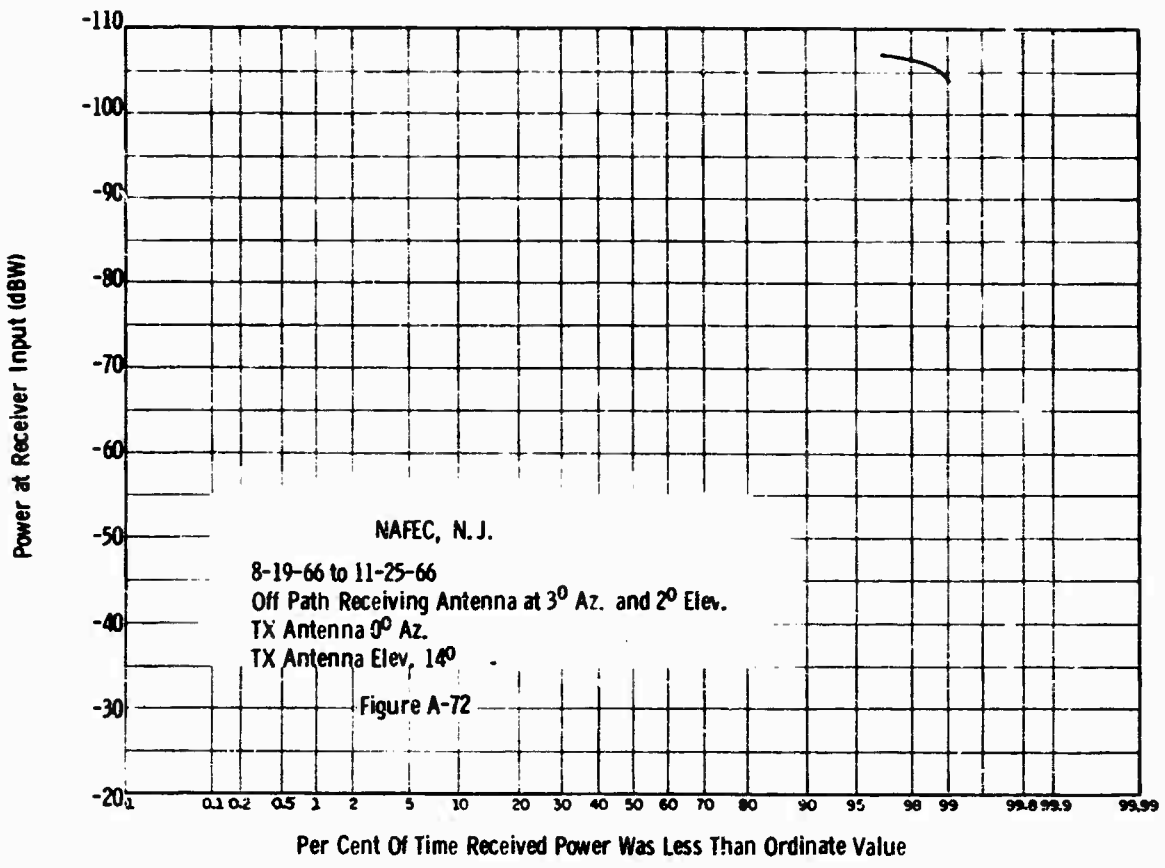


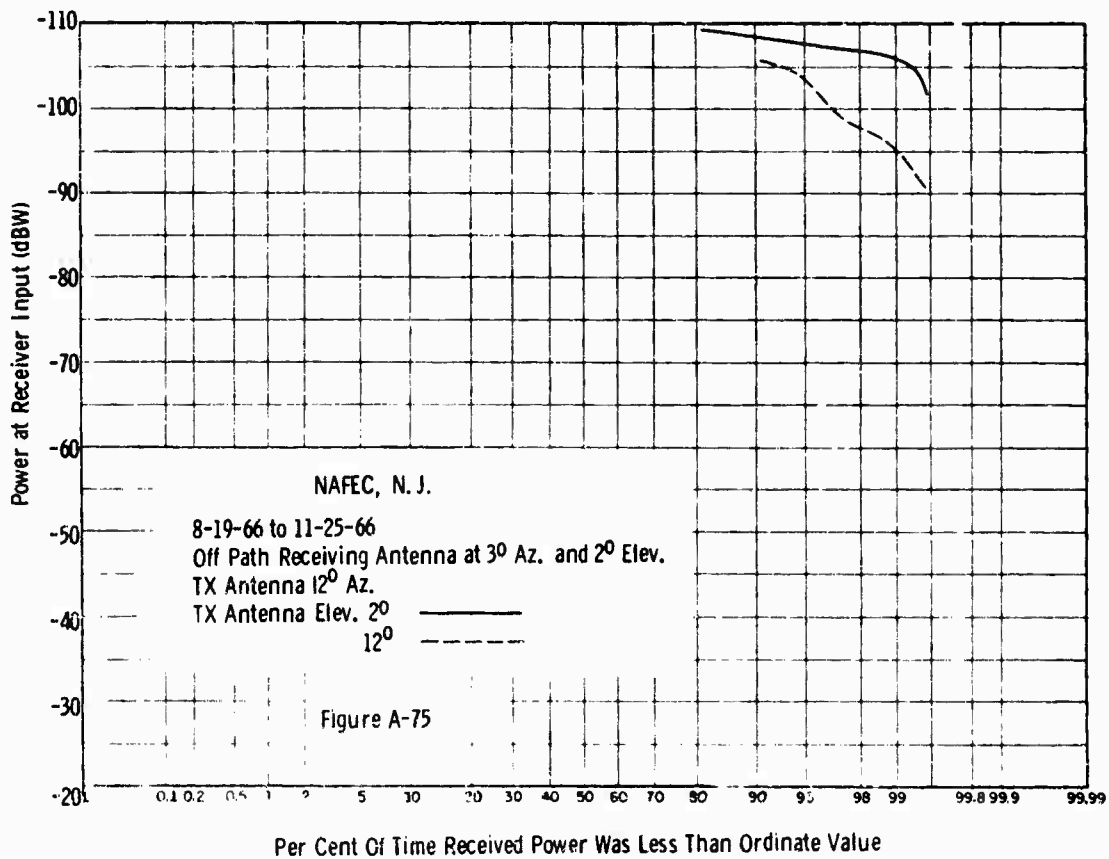
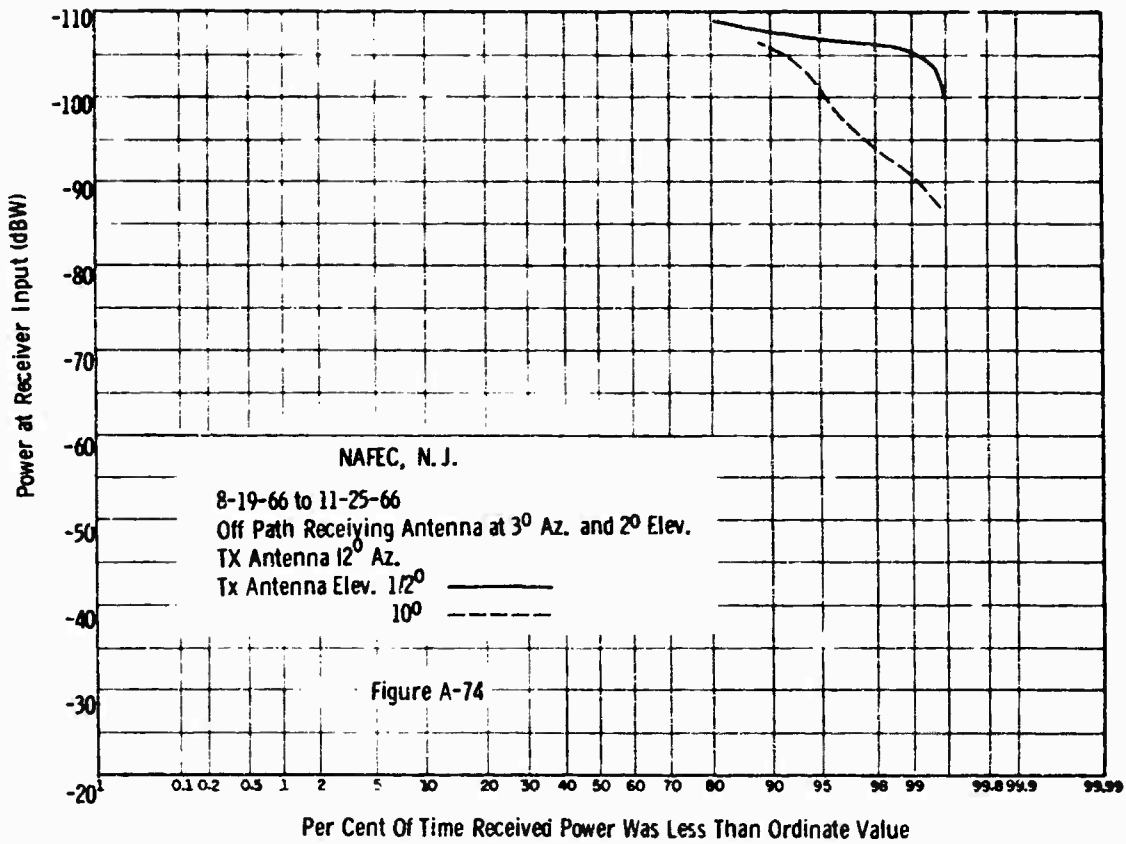


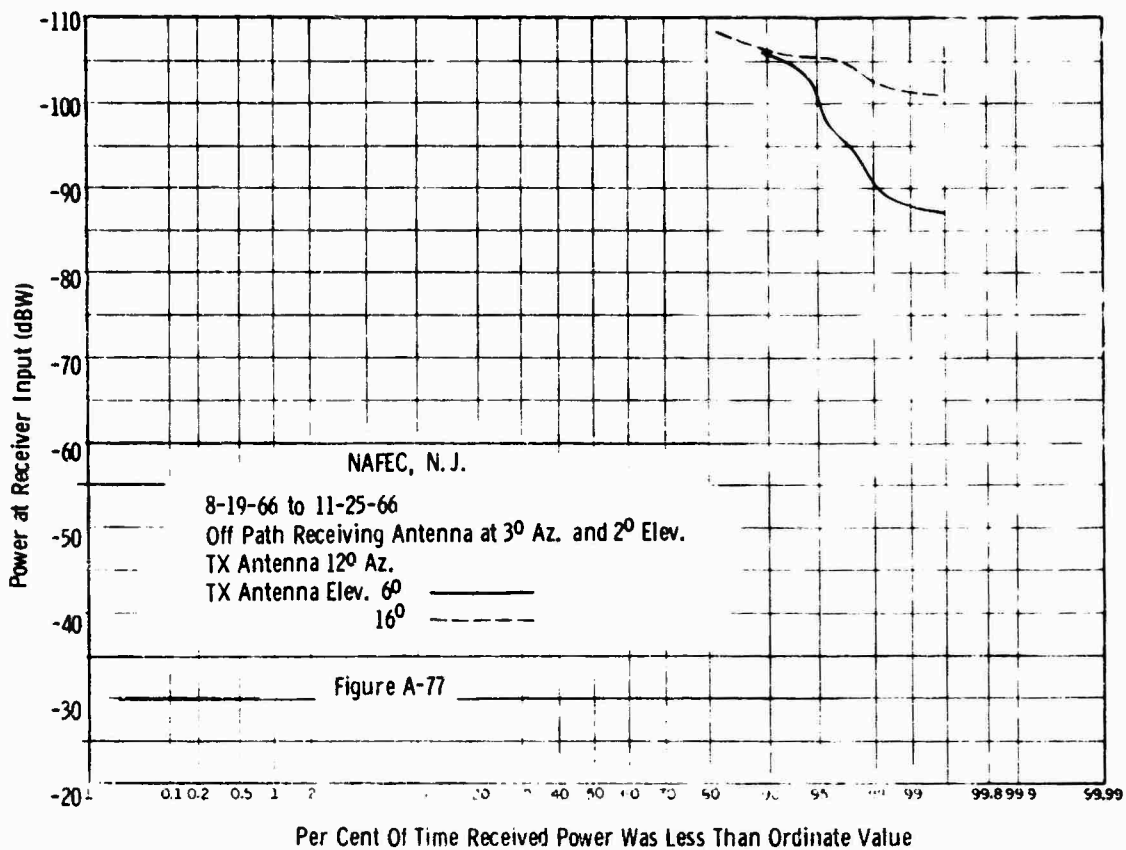
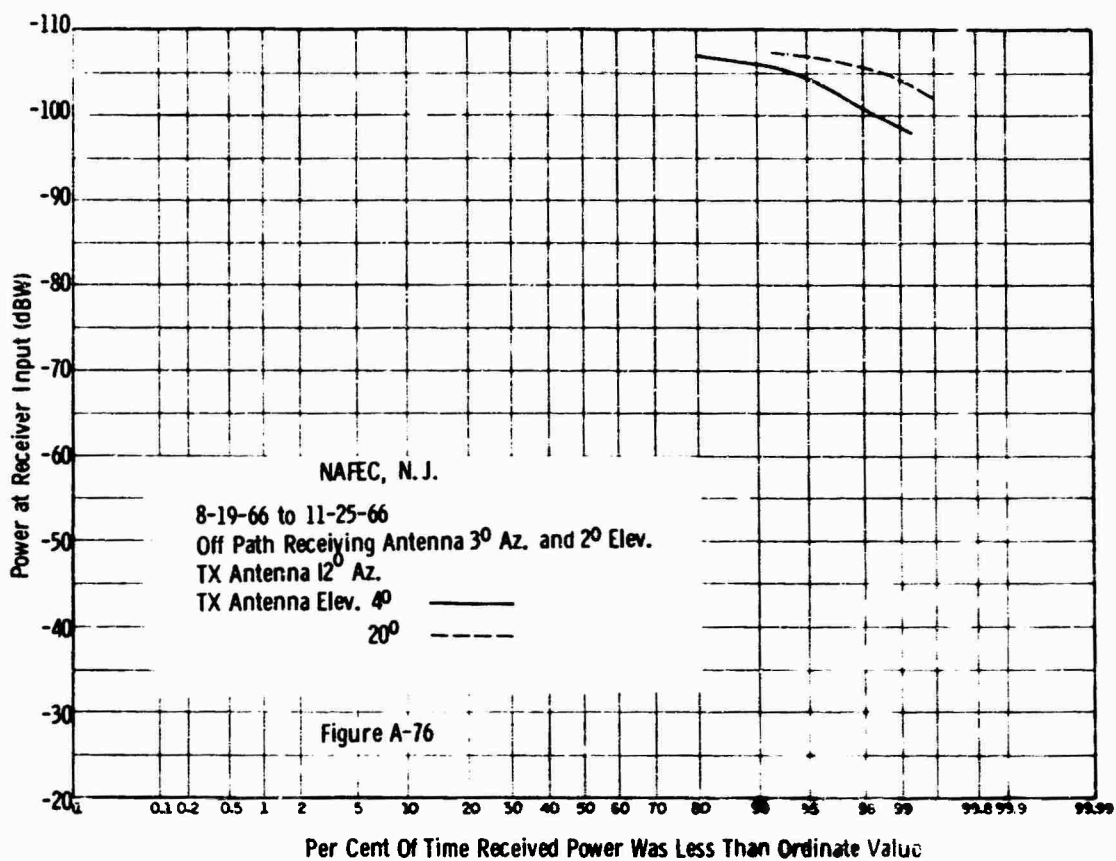


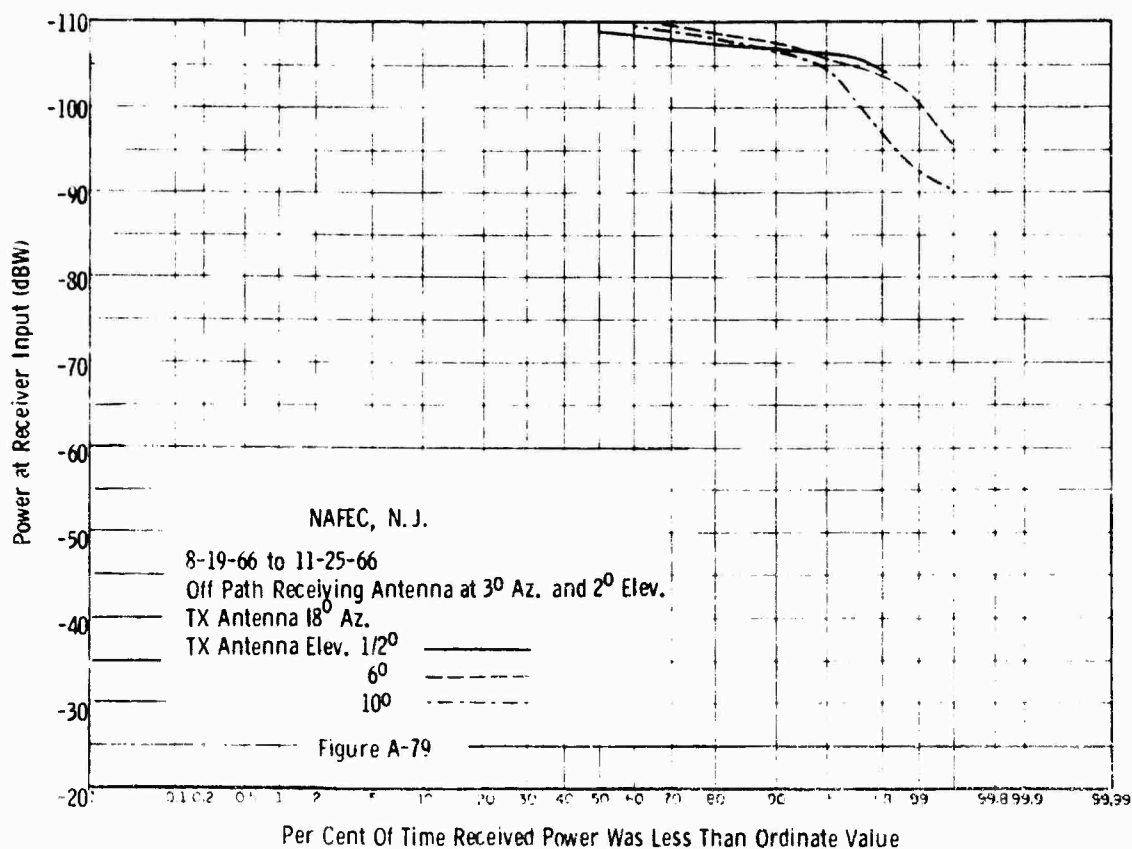
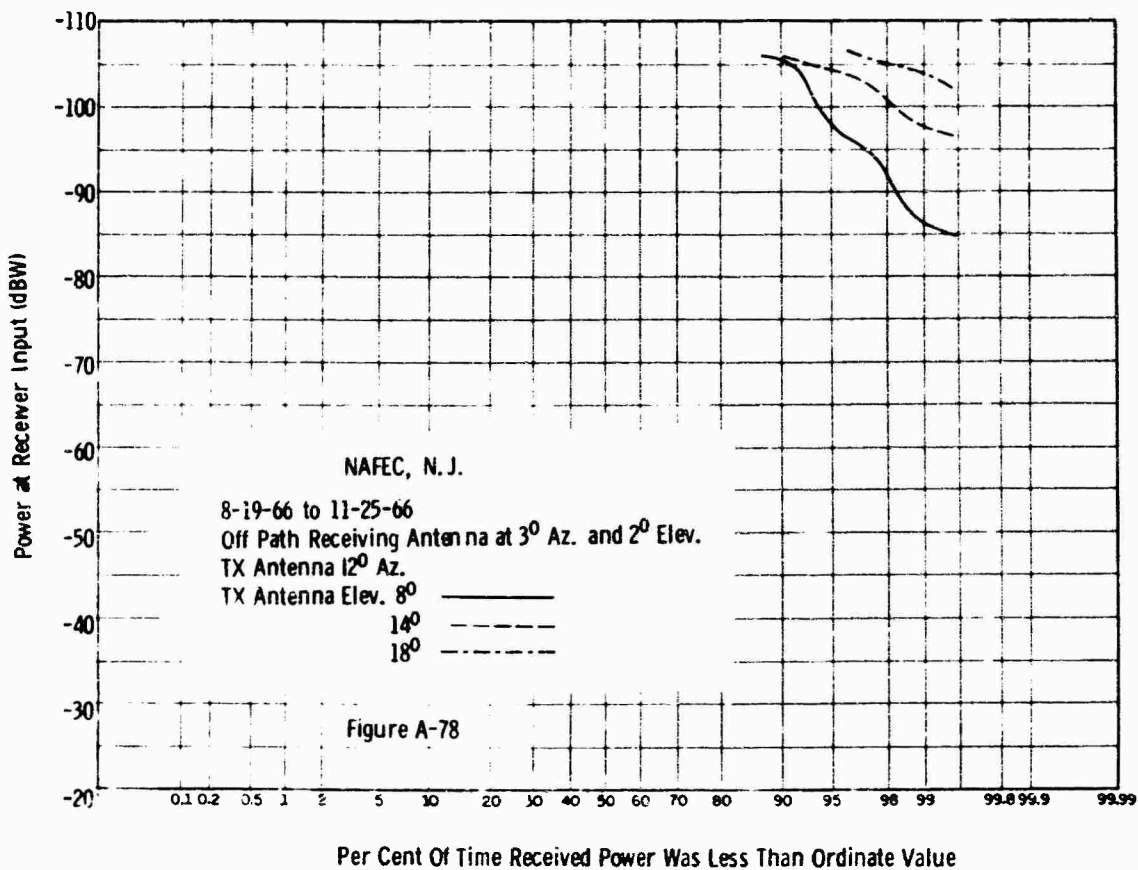


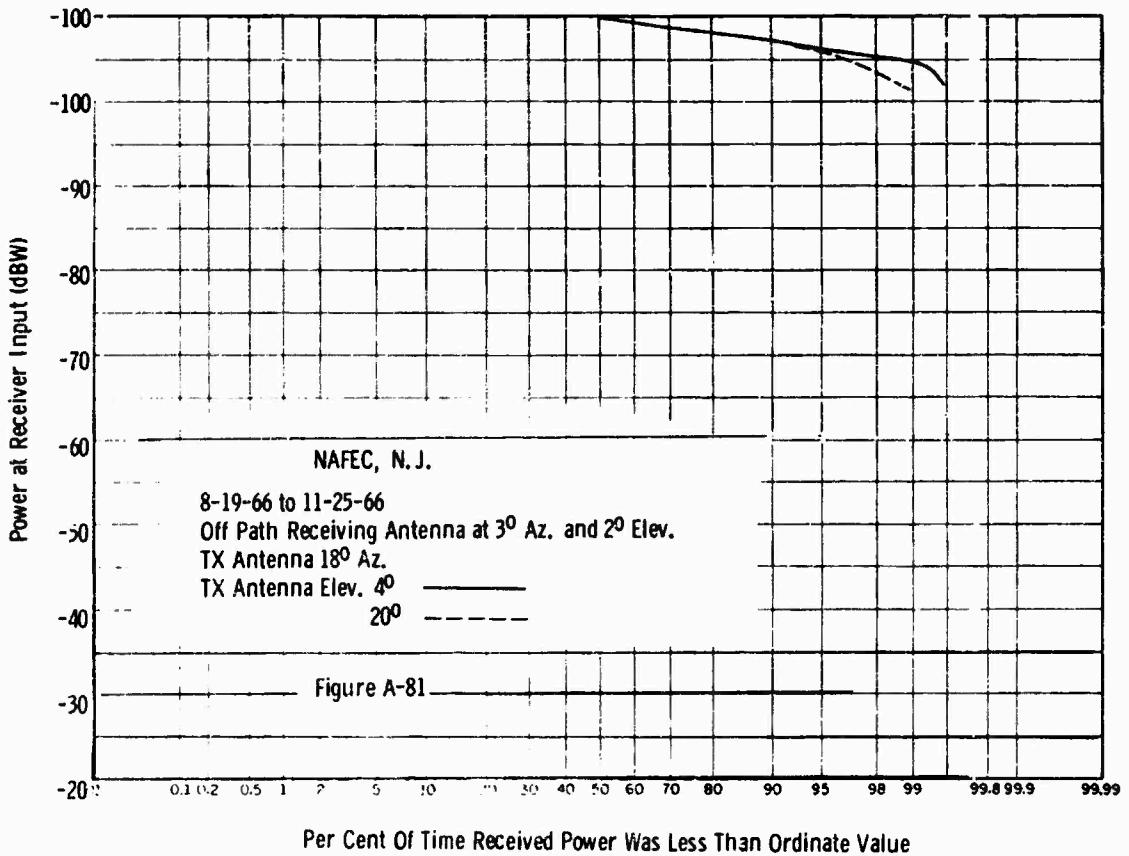
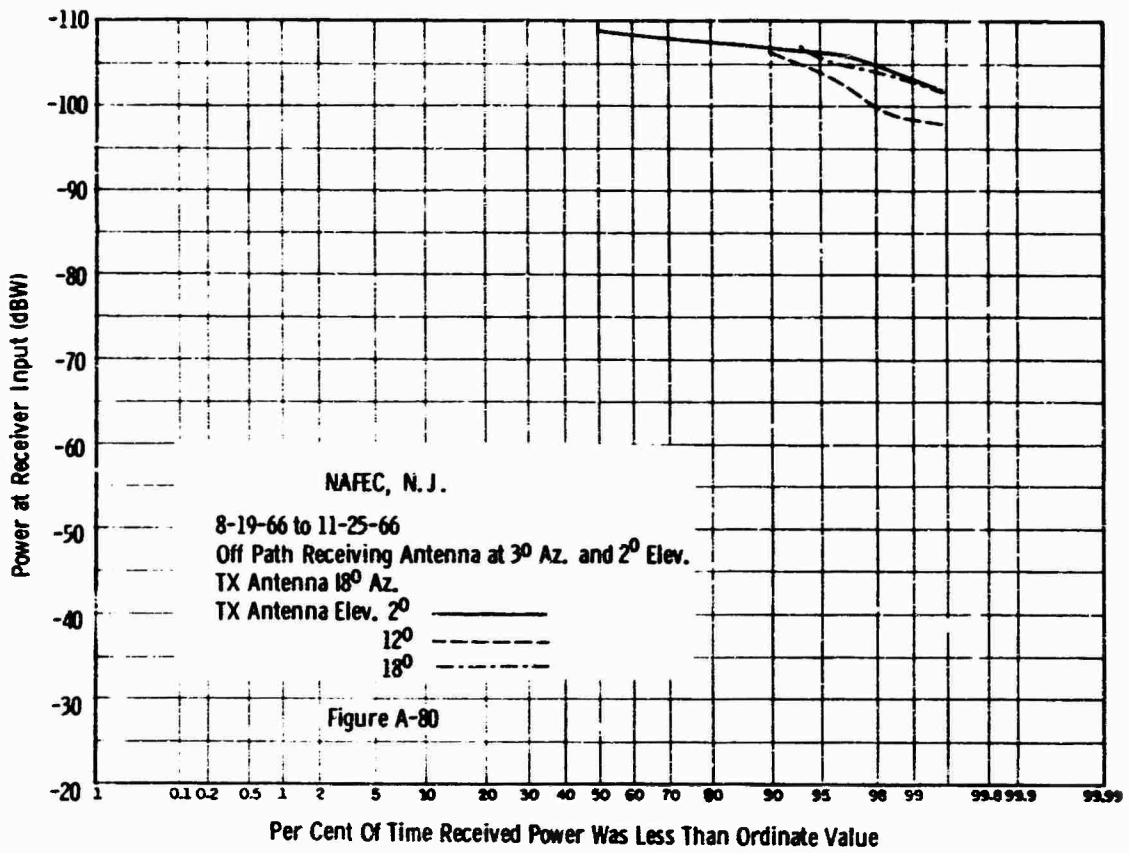


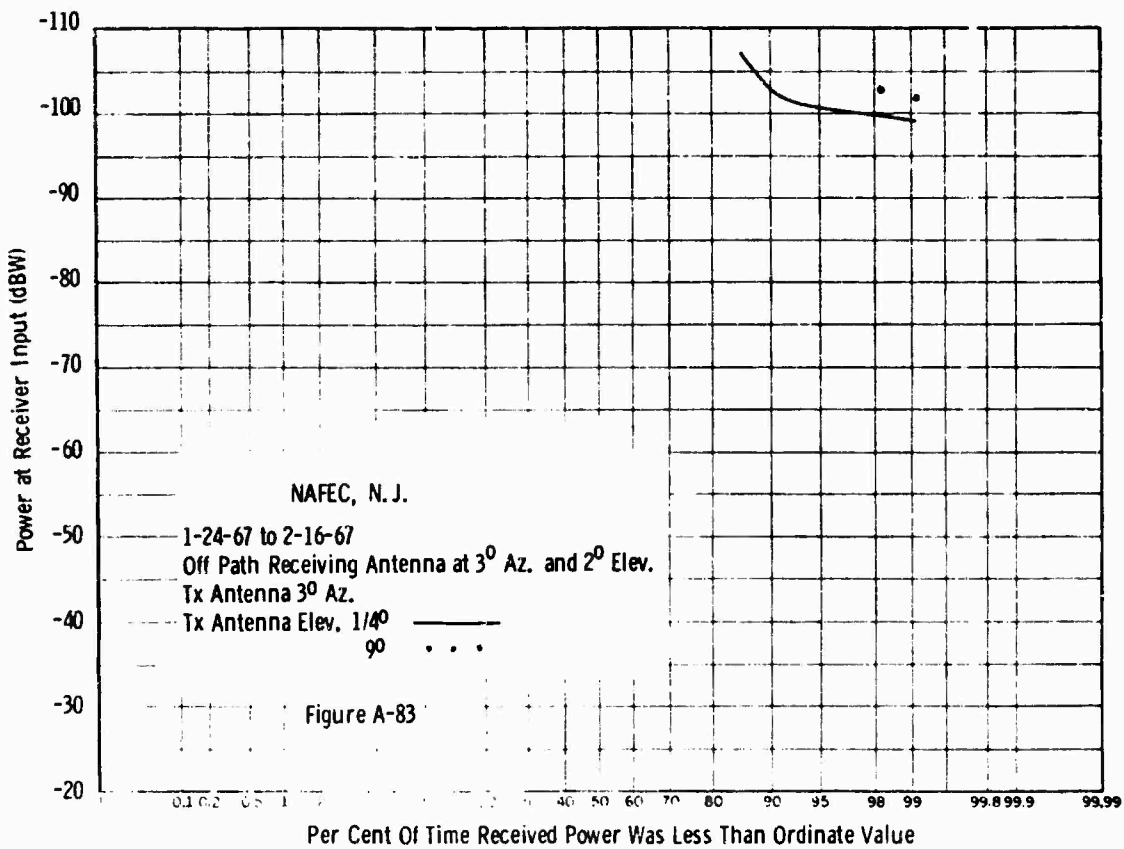
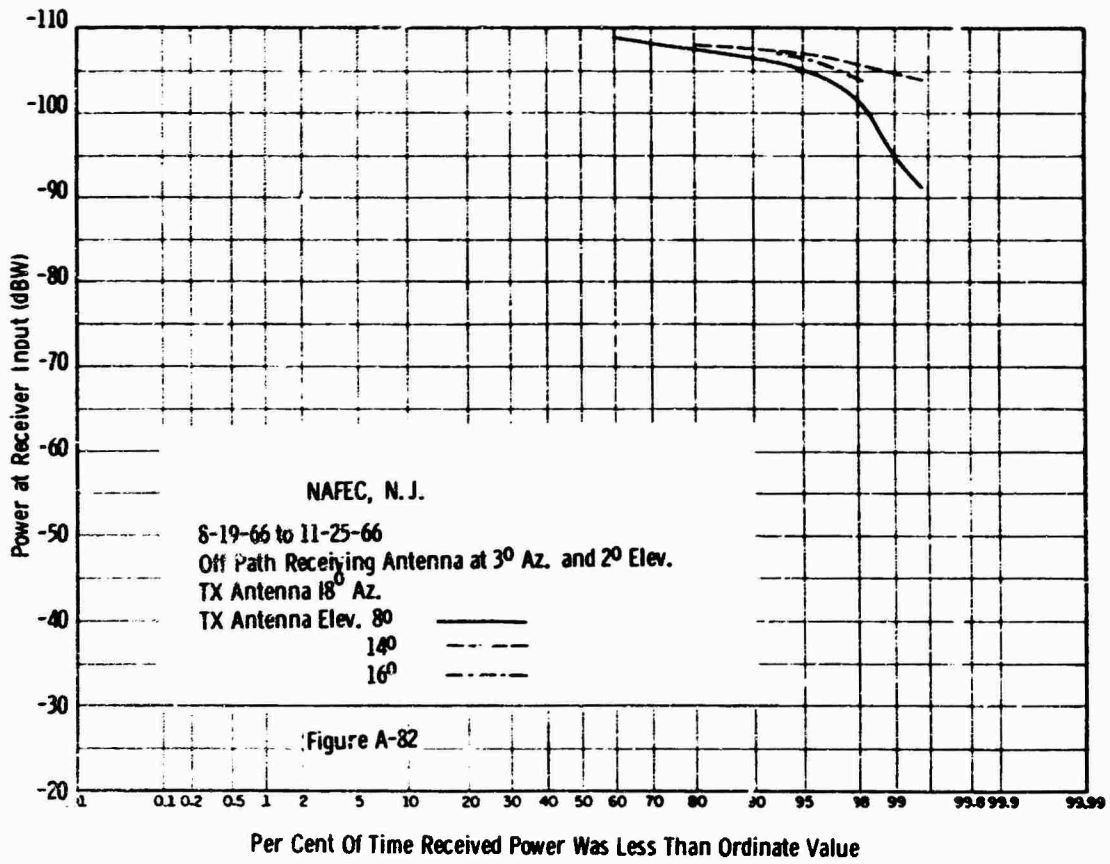


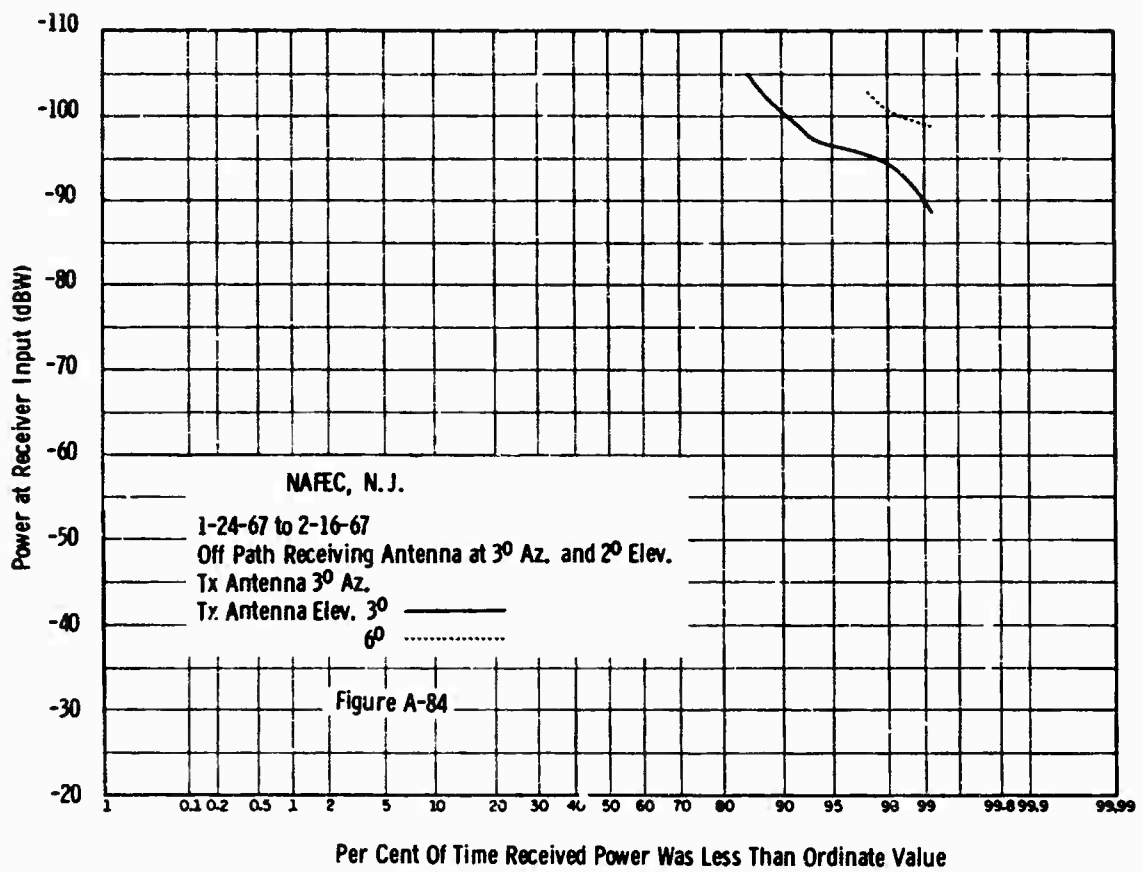


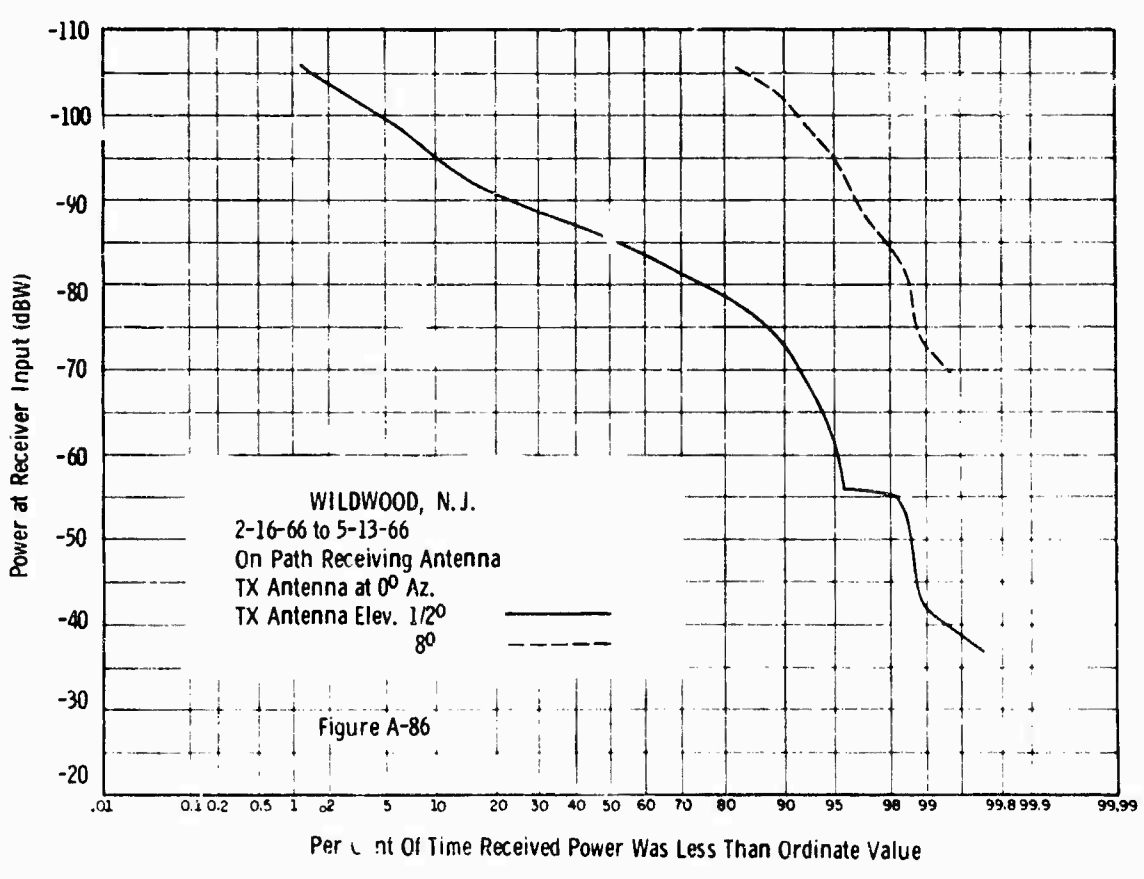
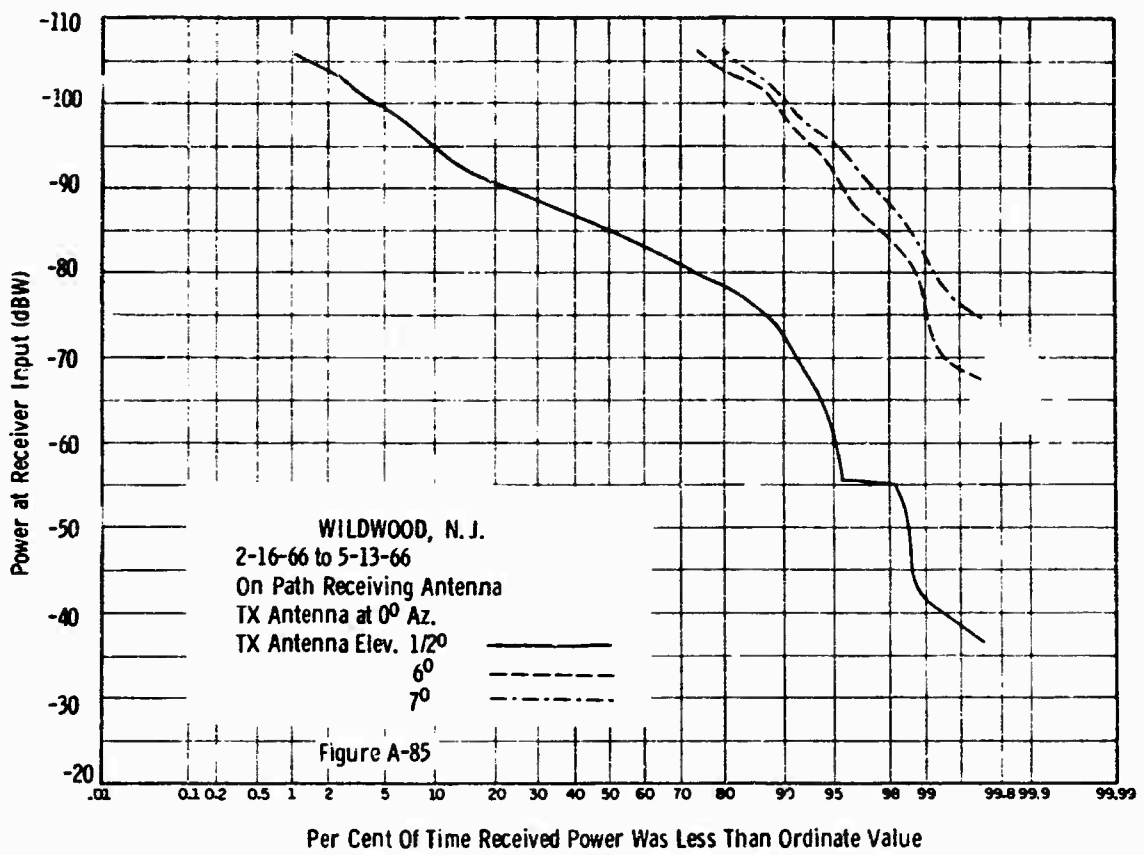


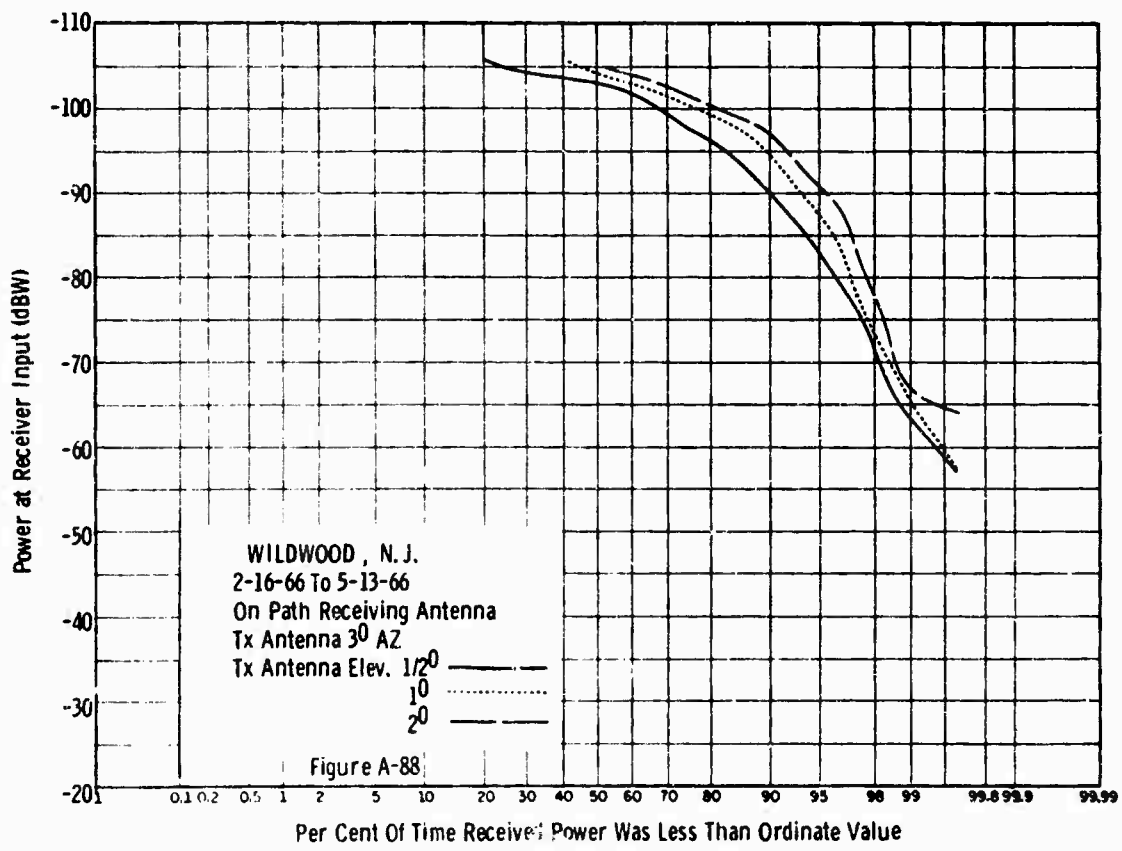
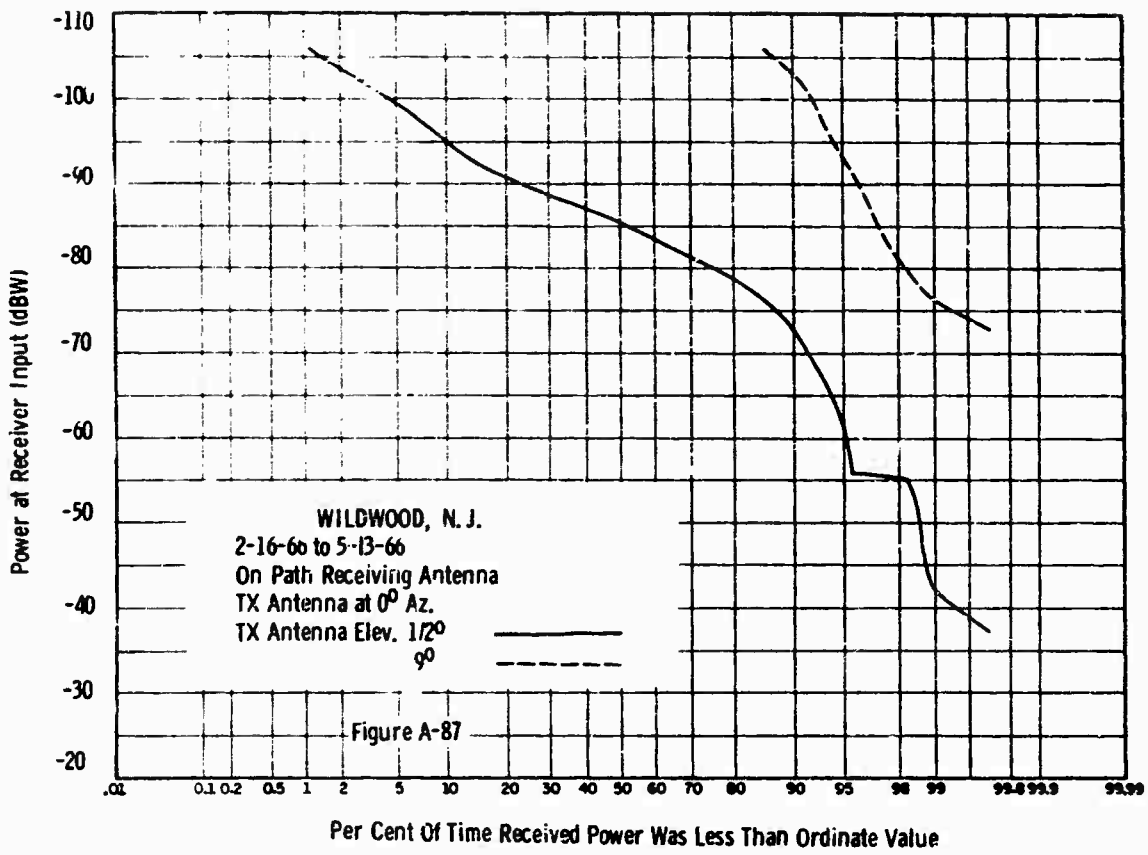


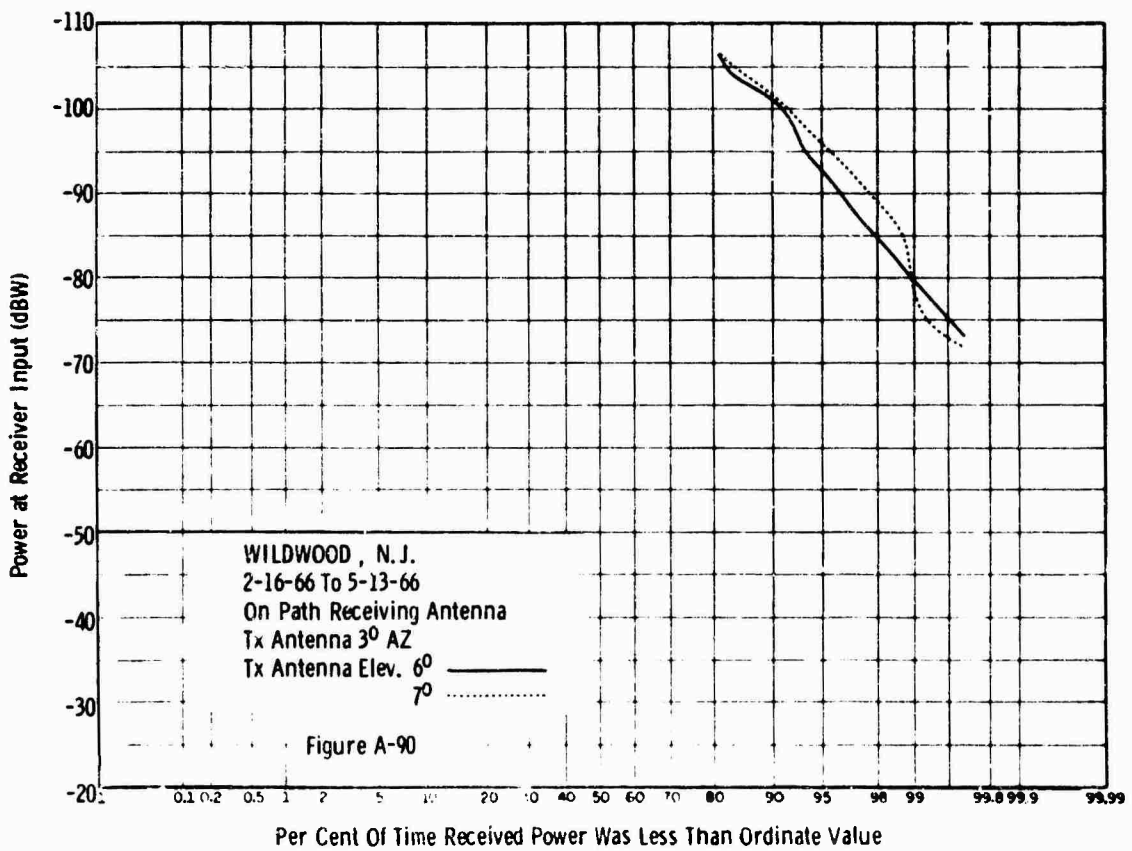
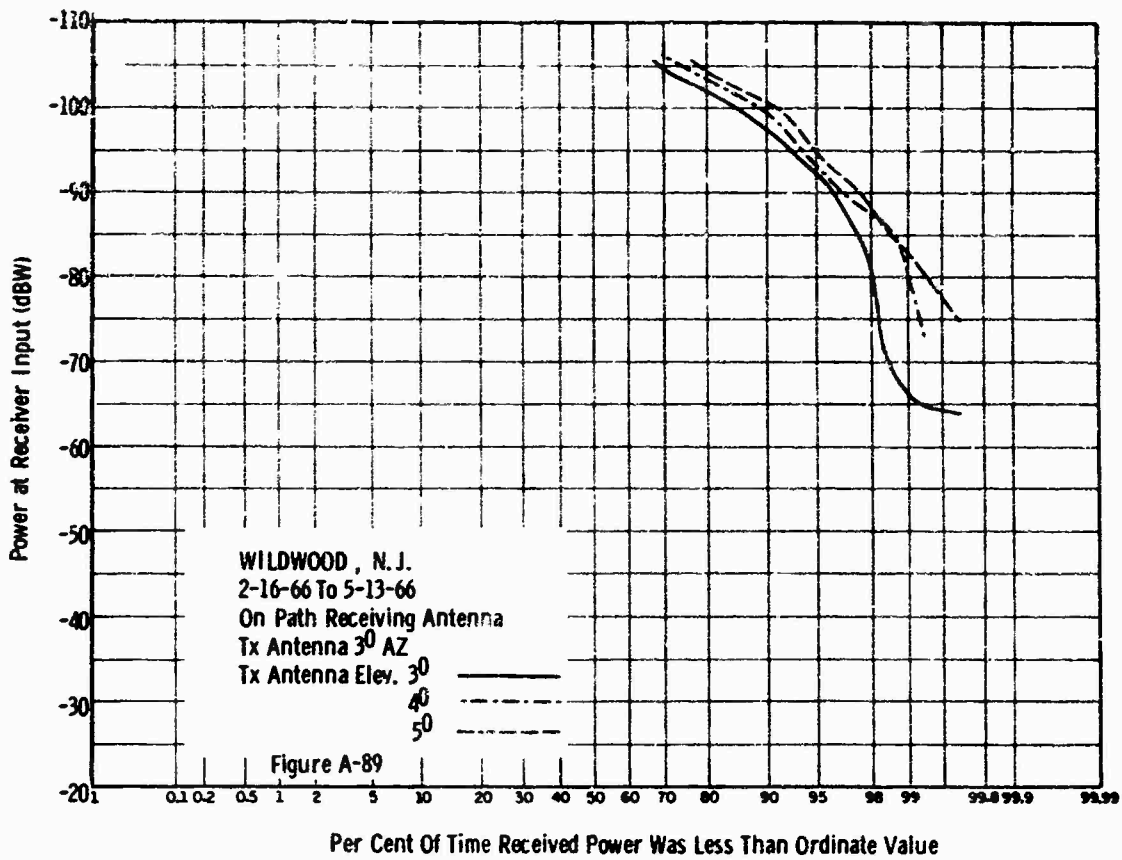


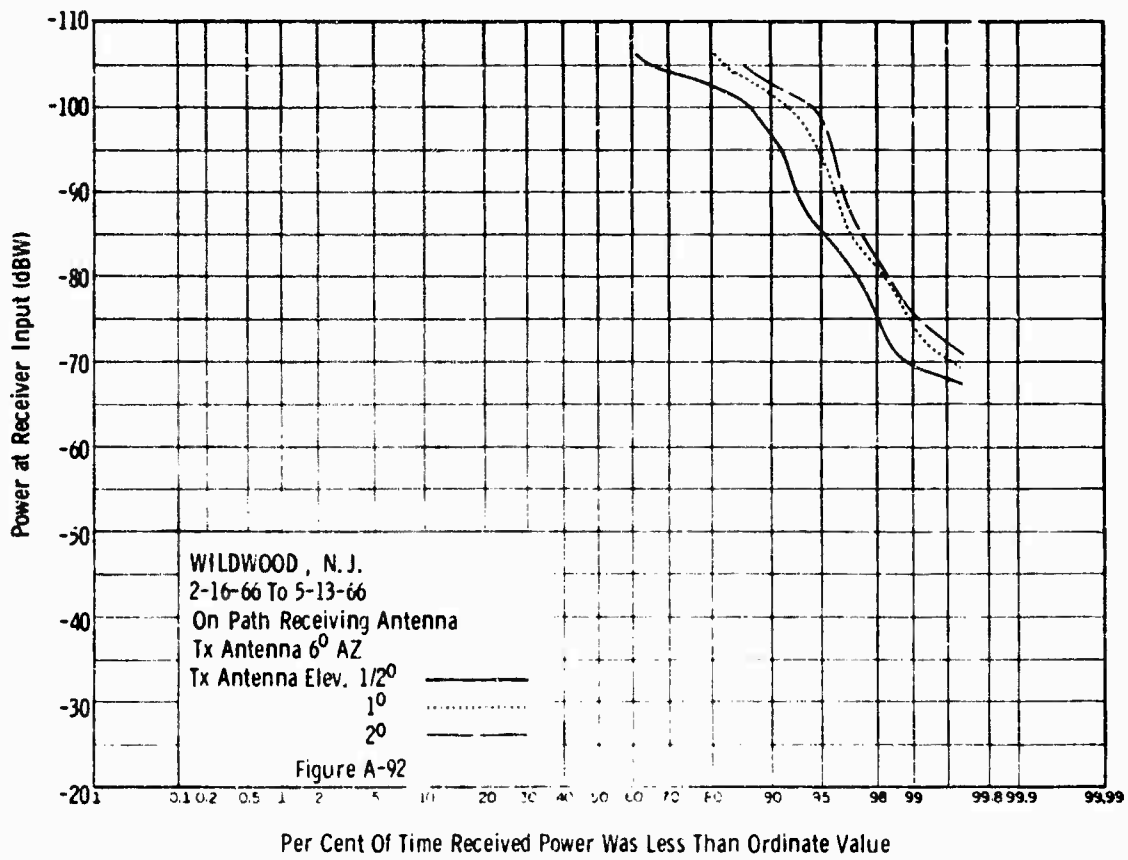
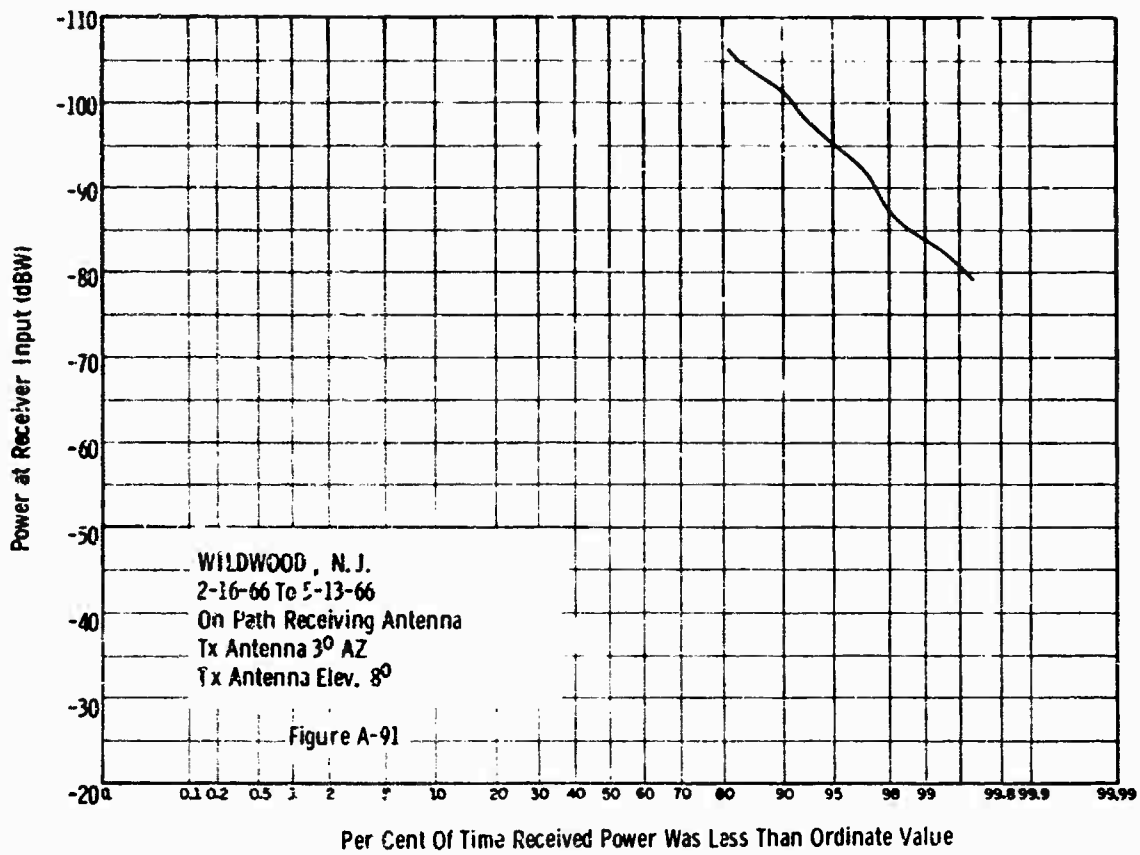


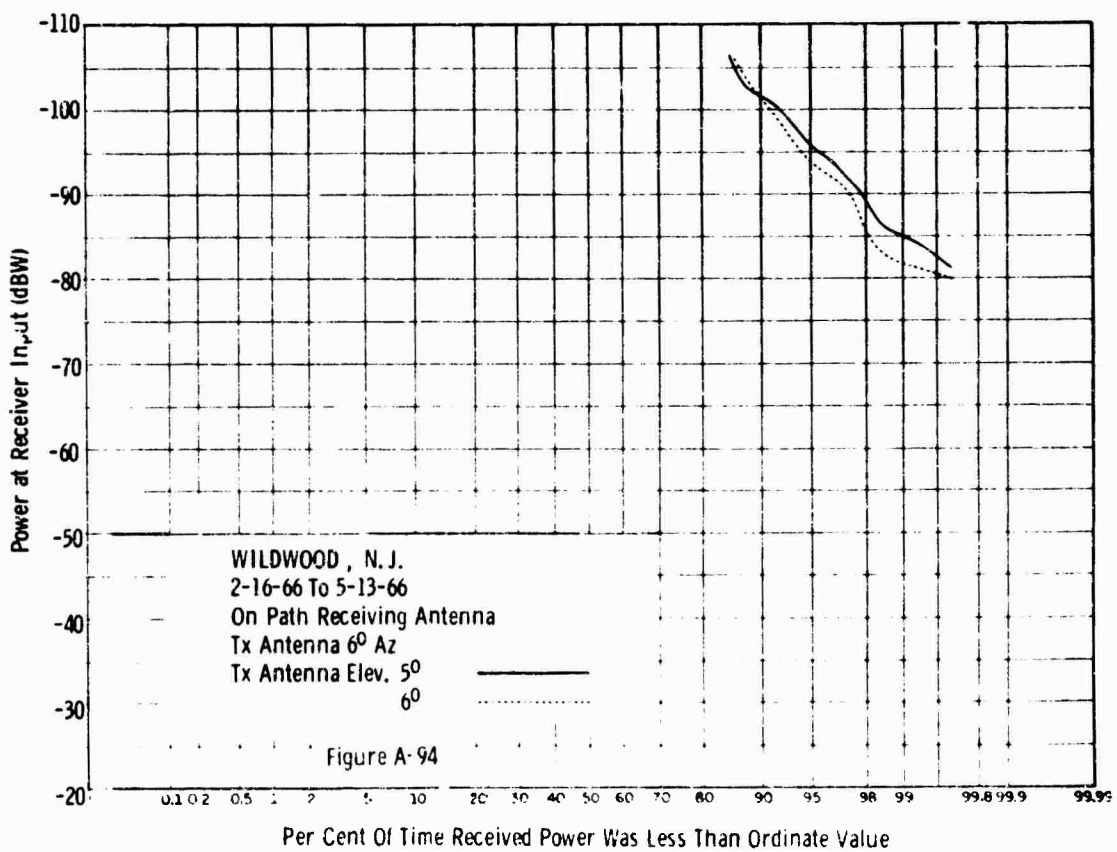
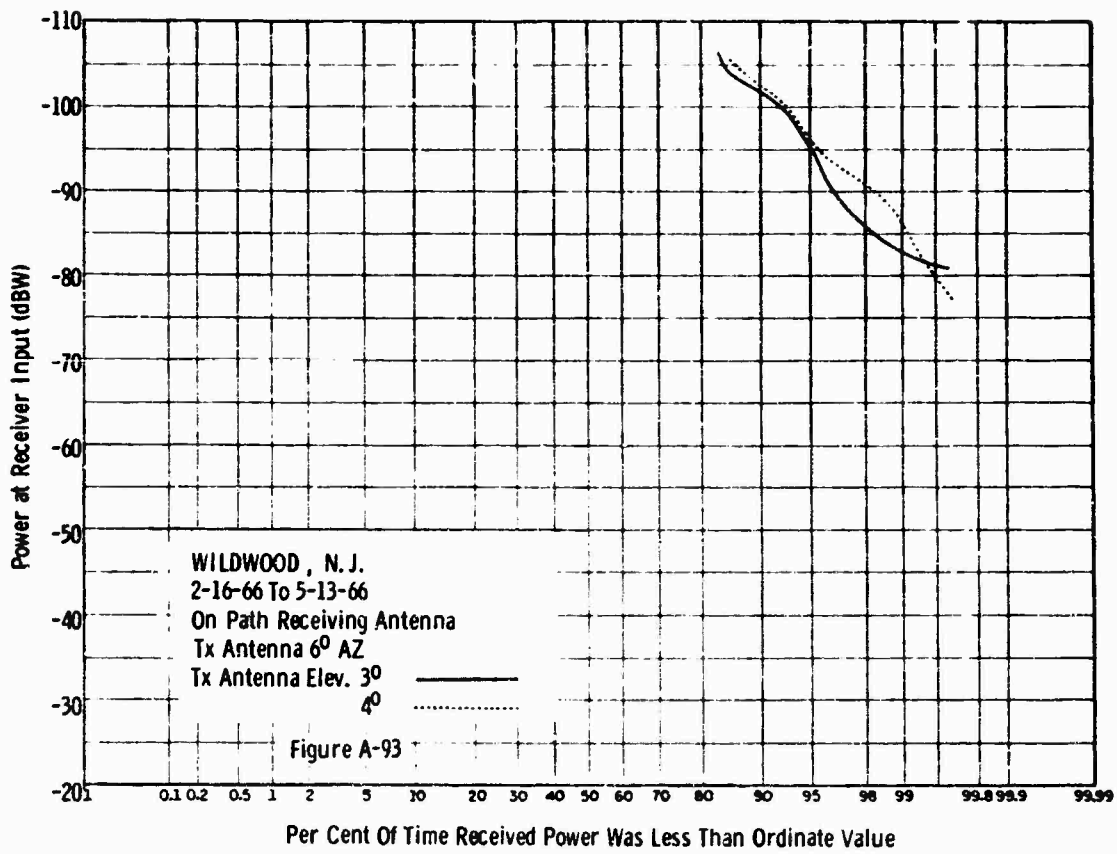


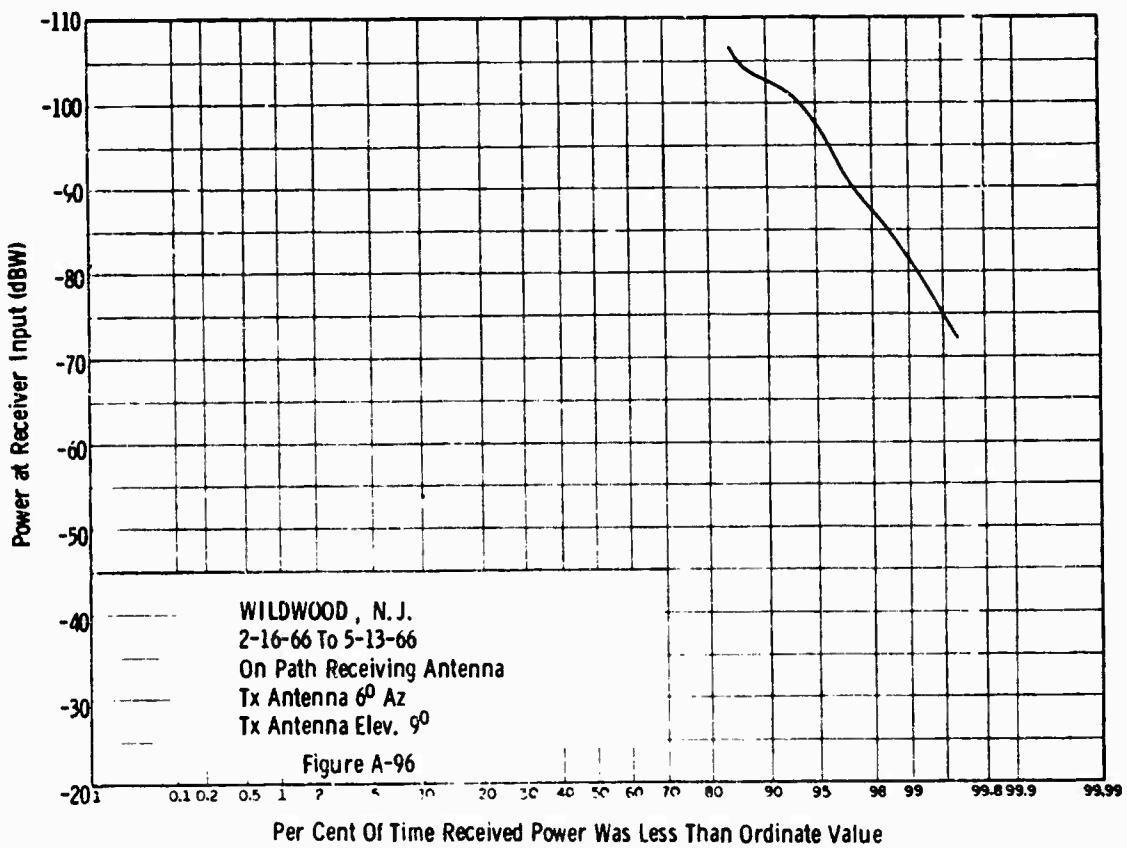
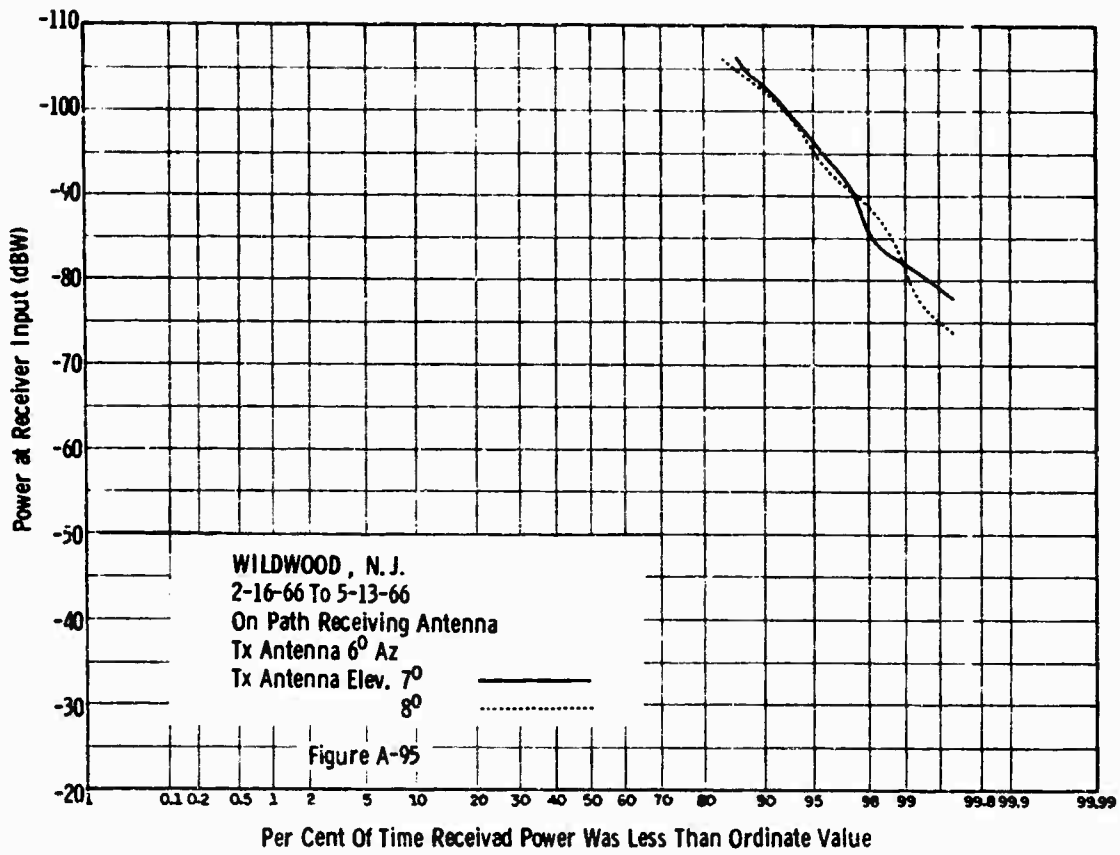


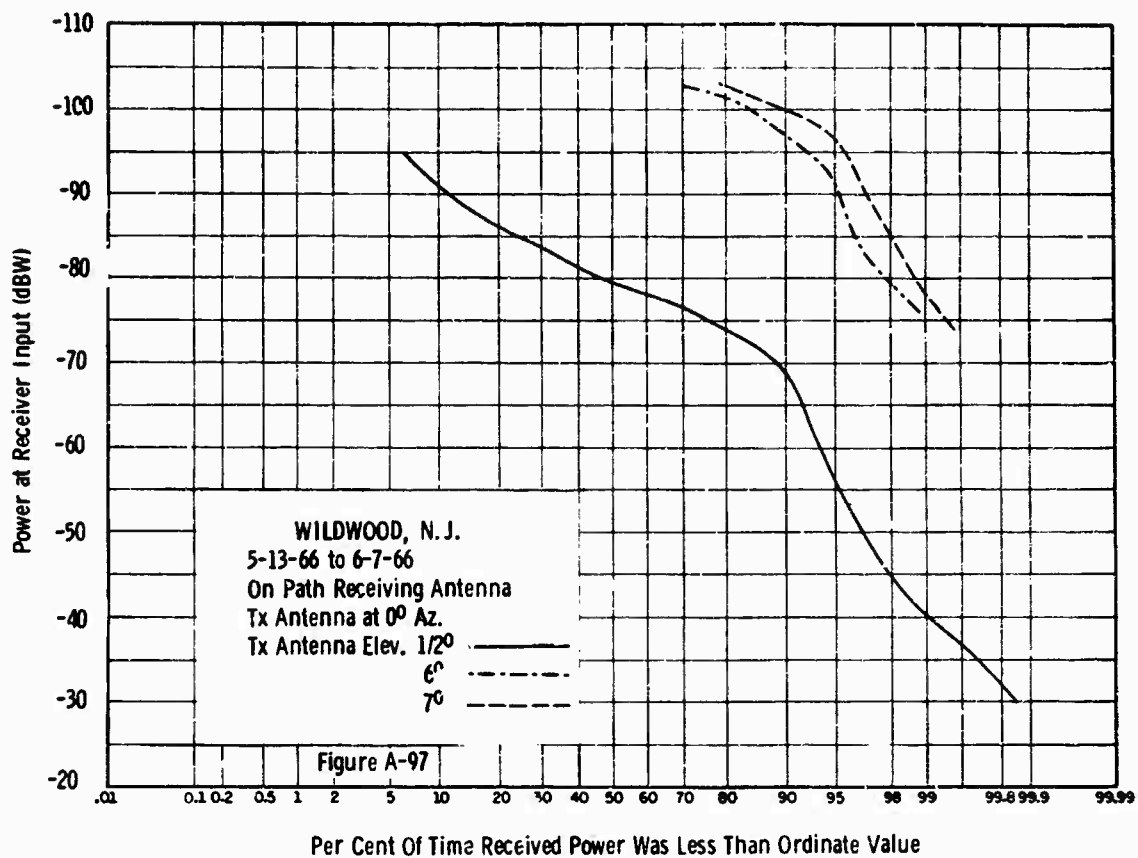




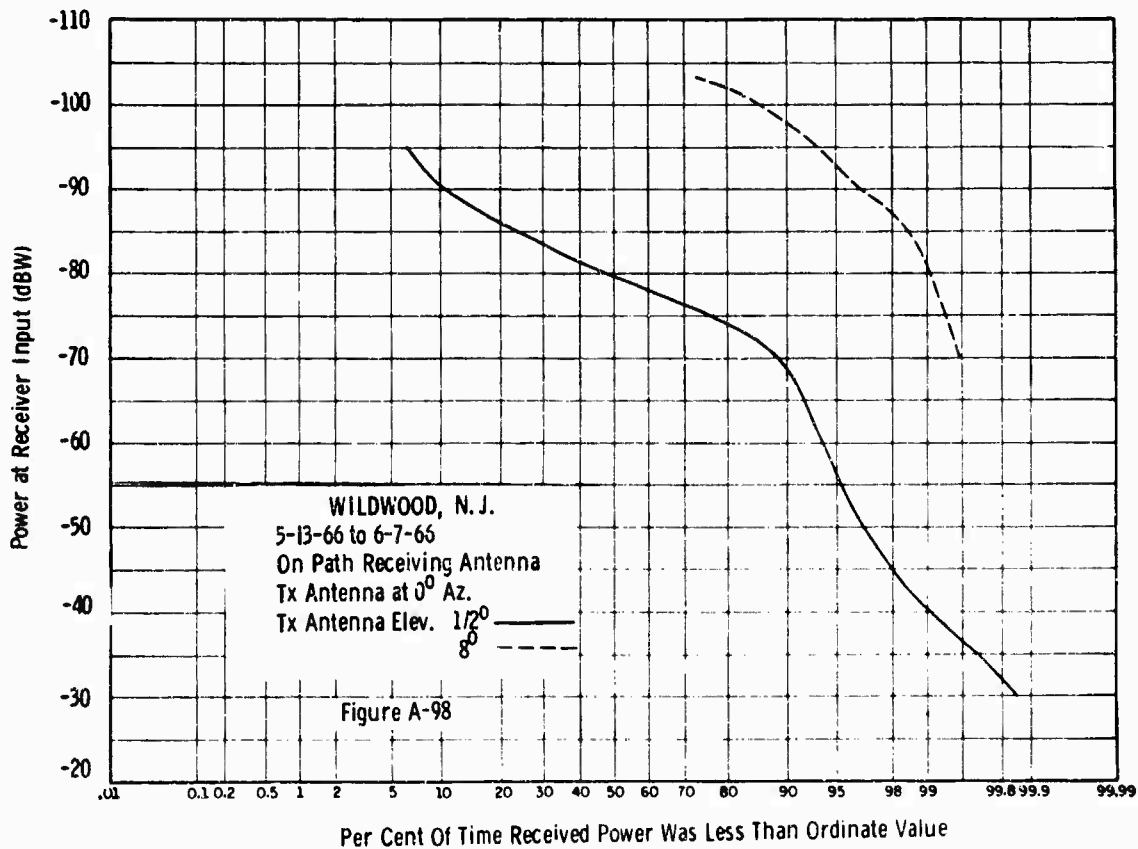




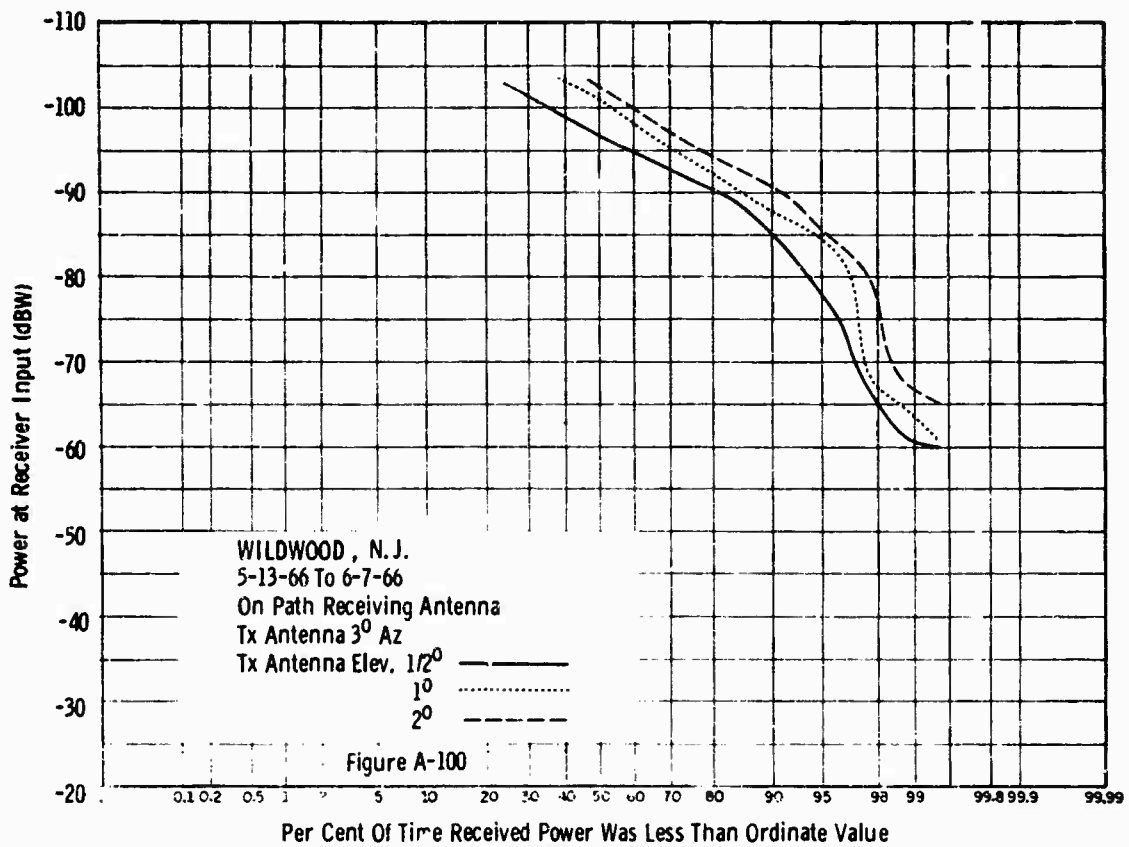
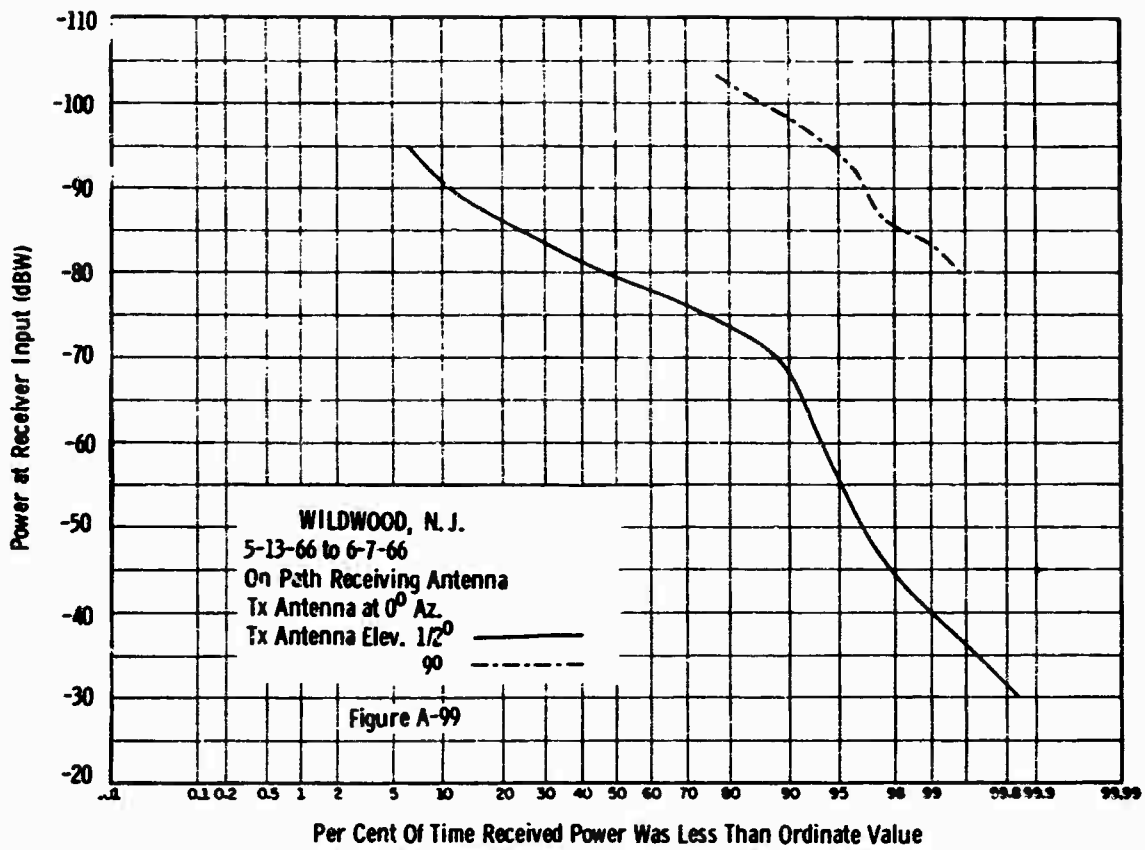


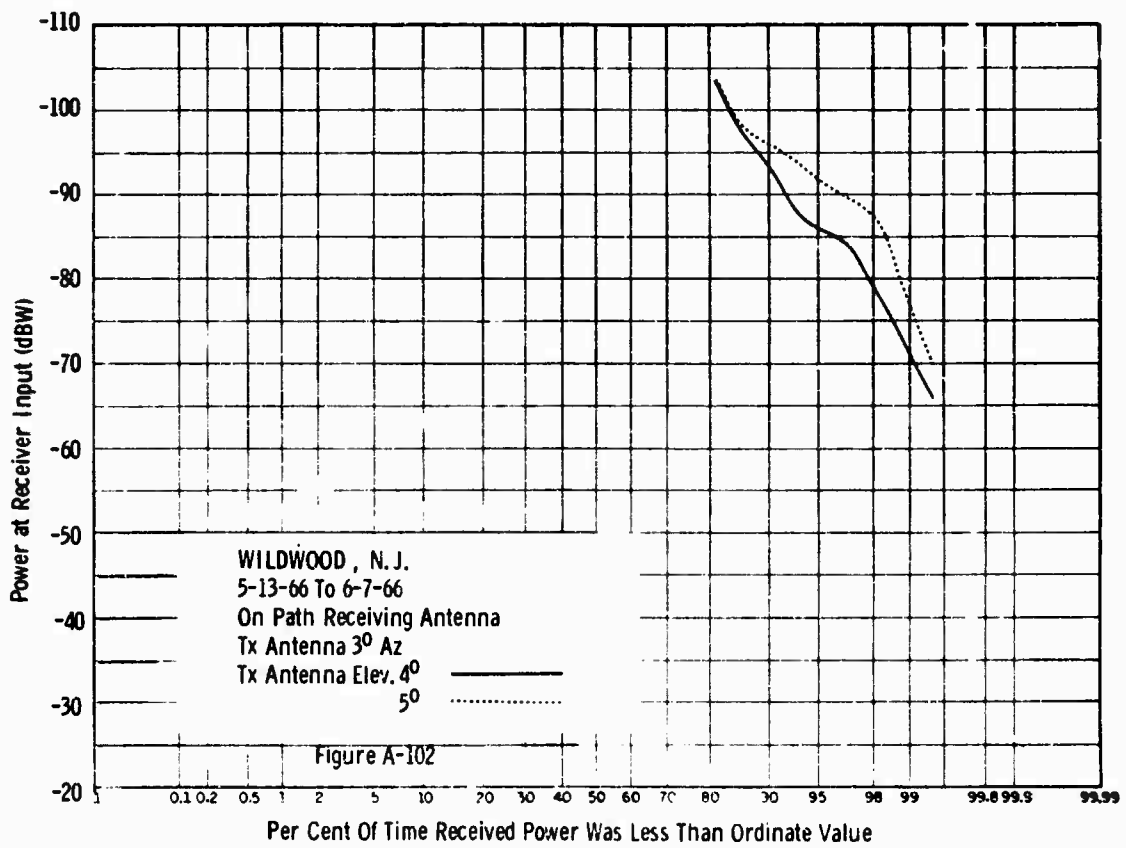
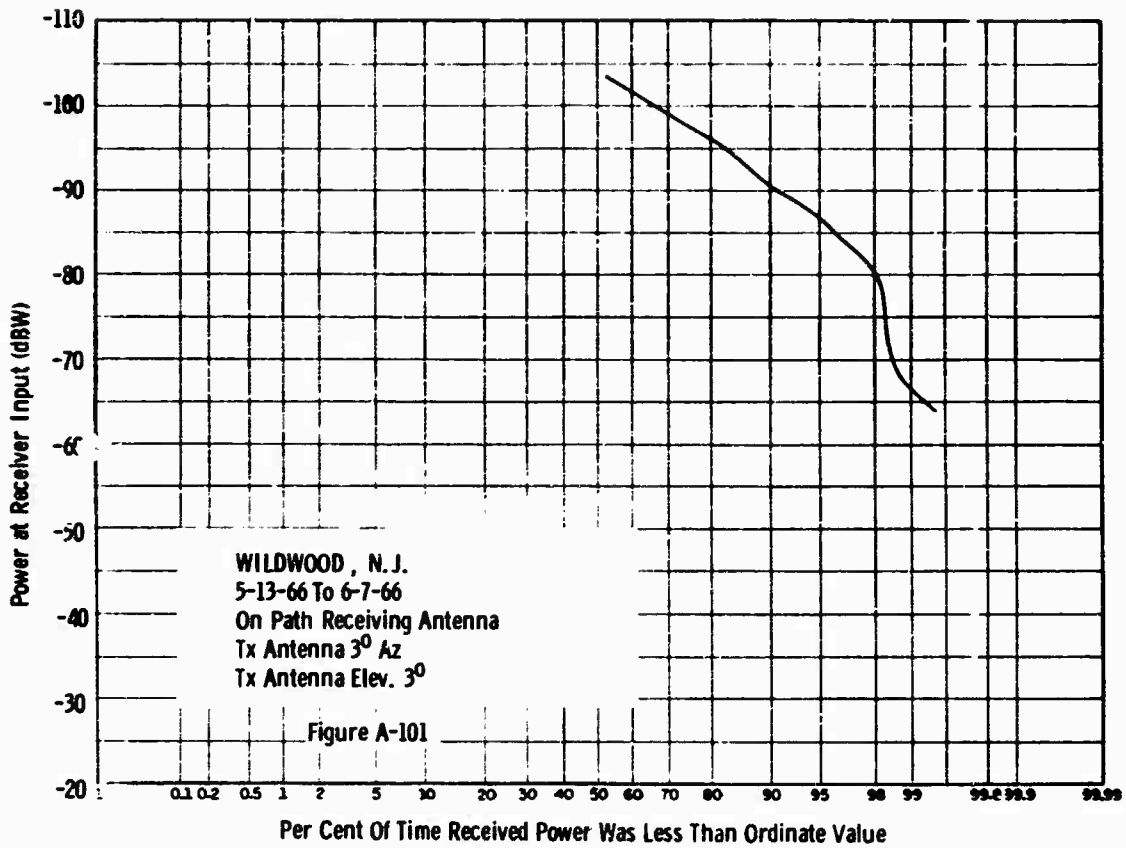


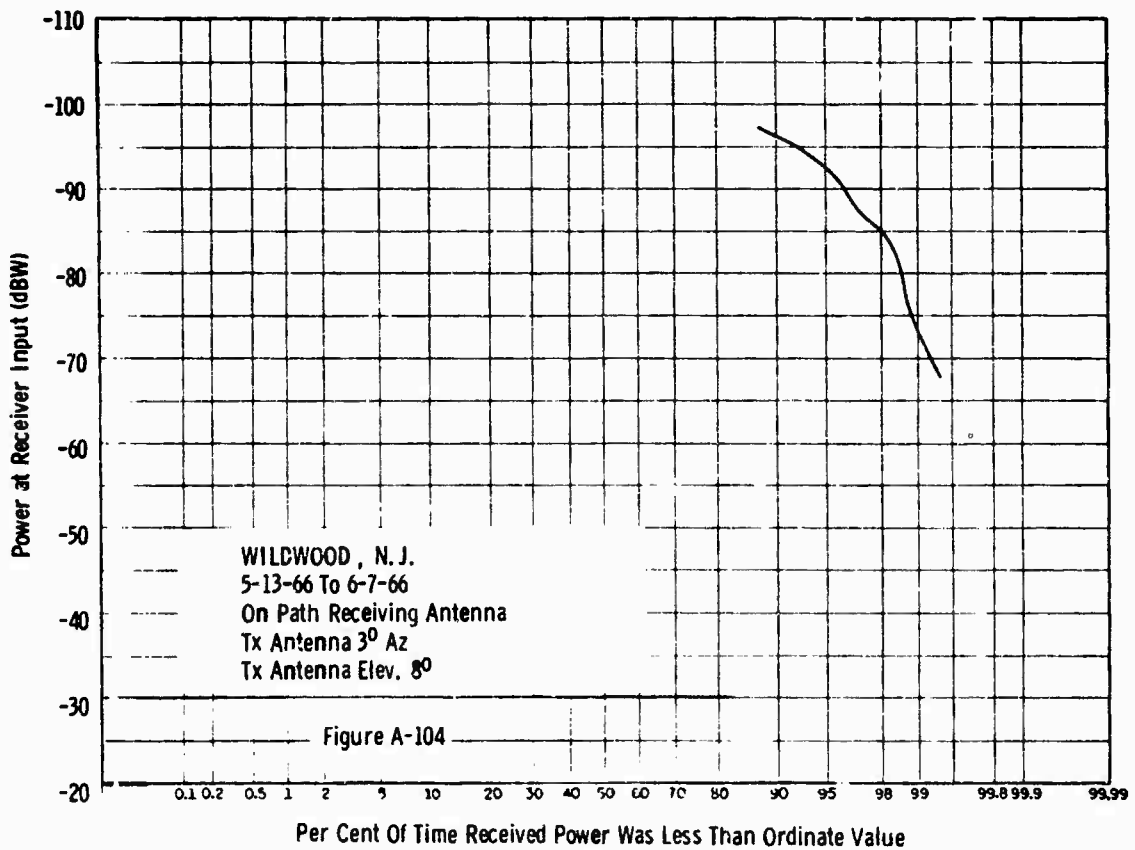
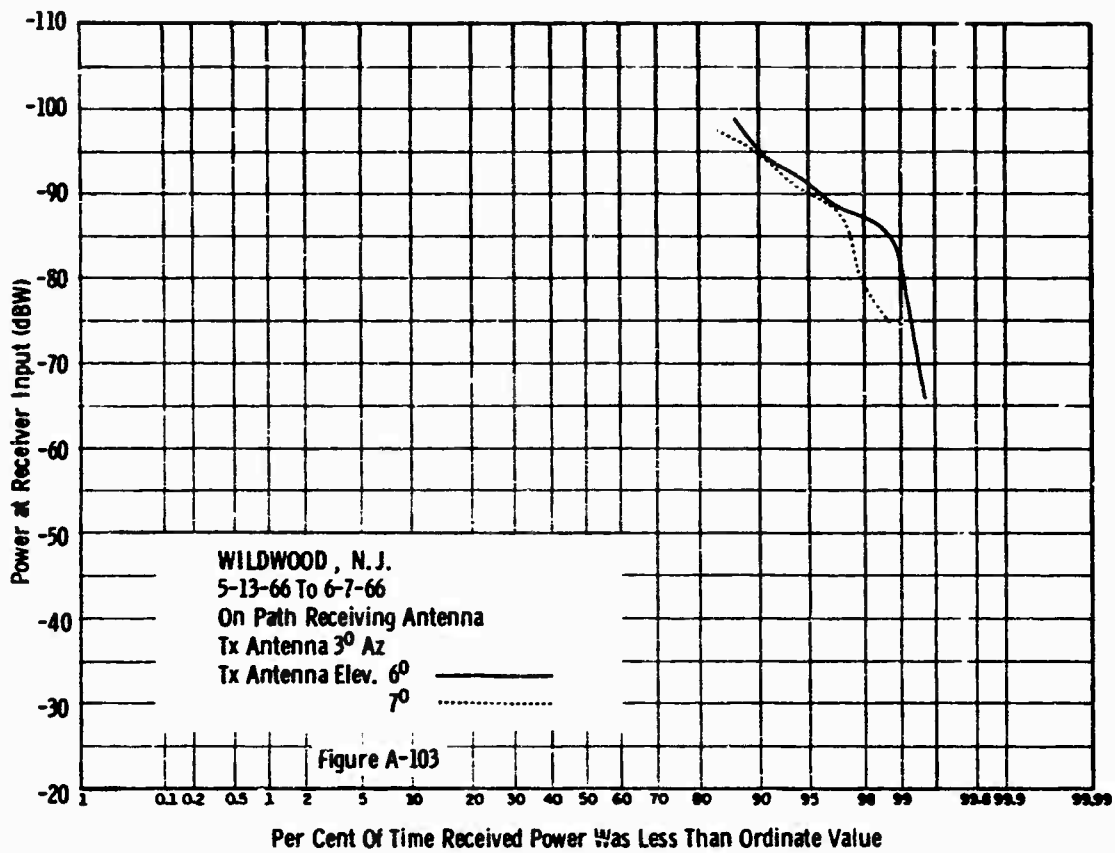
Per Cent Of Time Received Power Was Less Than Ordinate Value

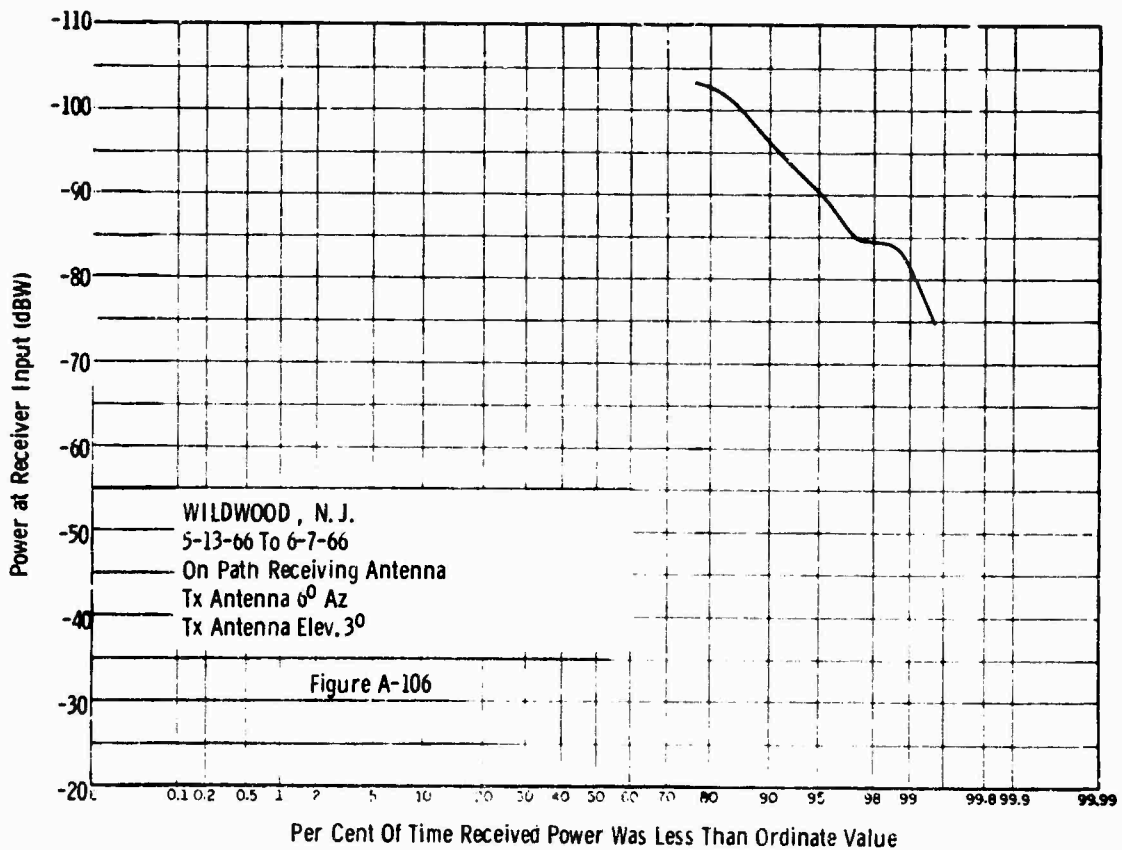
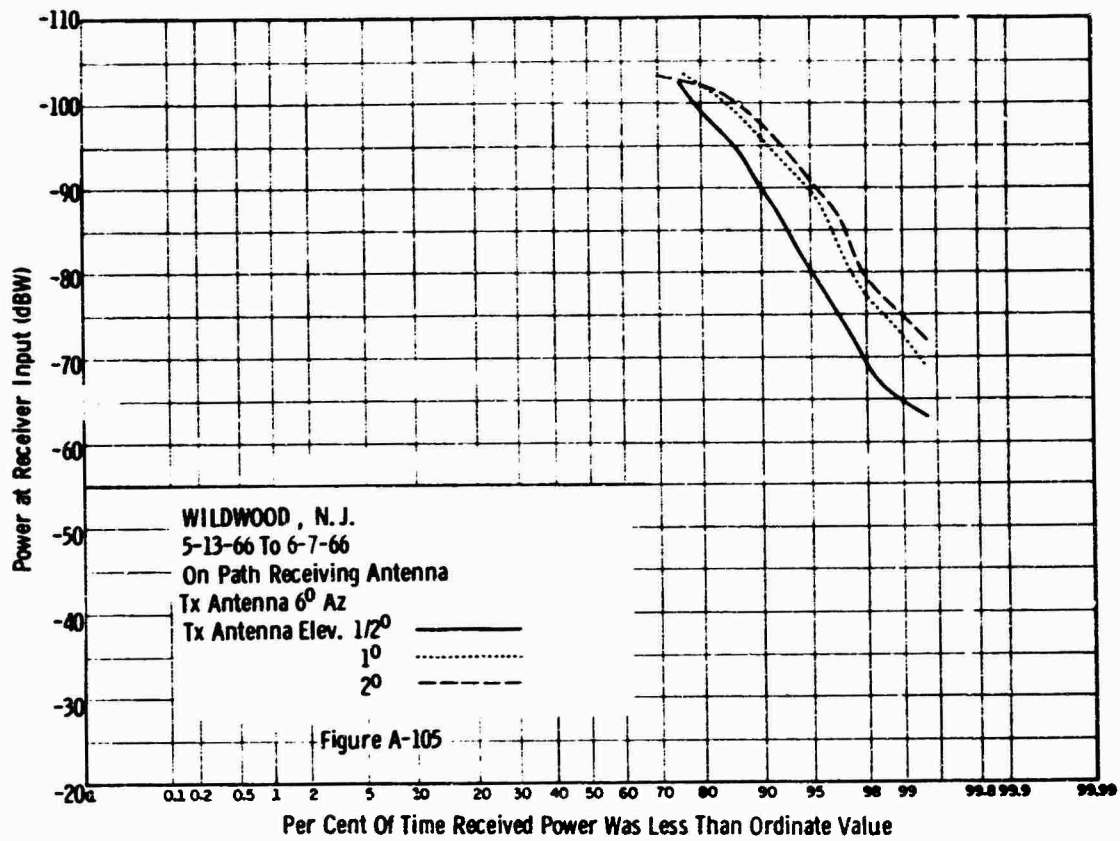


Per Cent Of Time Received Power Was Less Than Ordinate Value









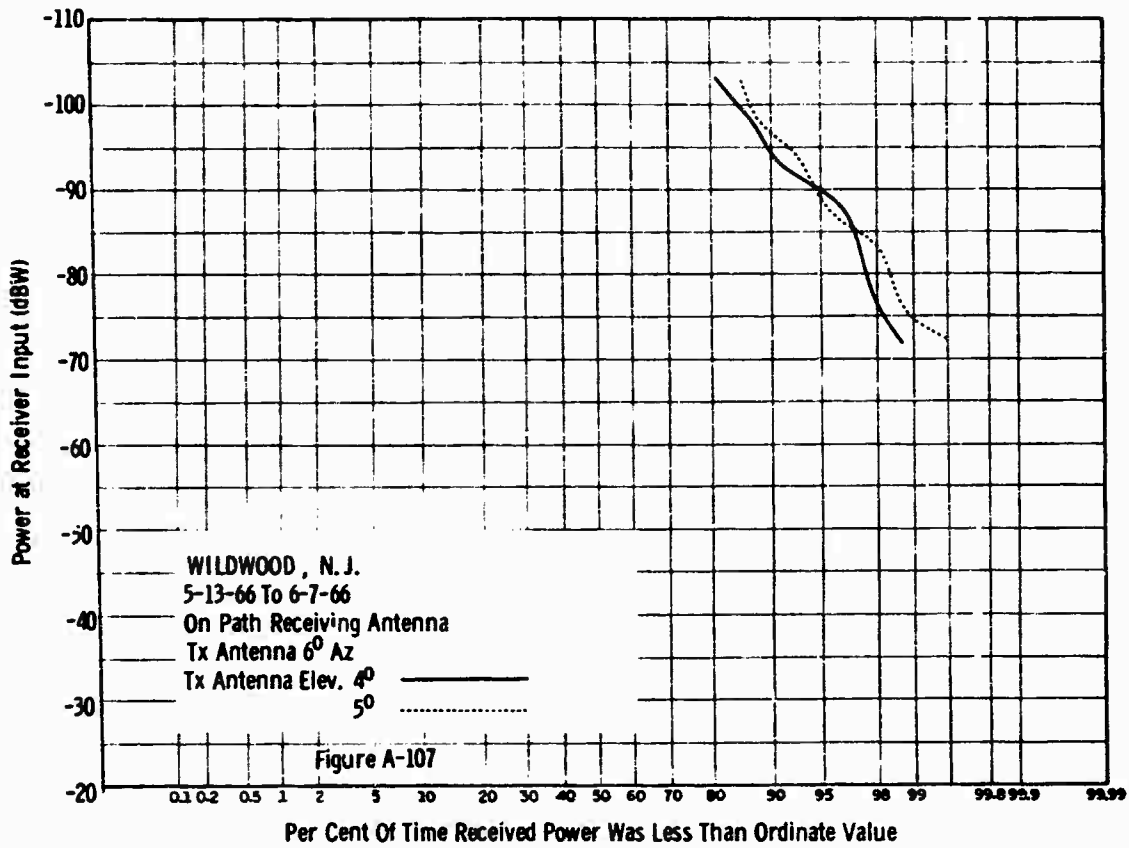


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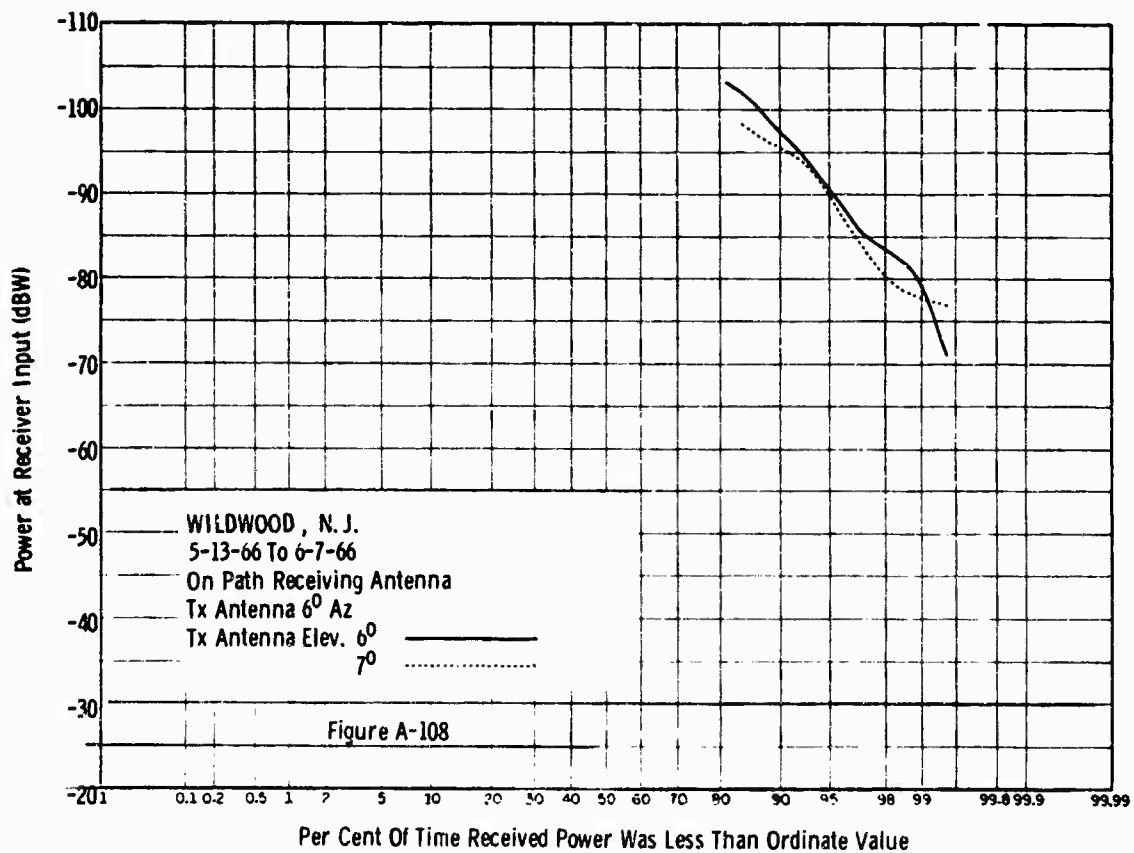


Figure A-108

