NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
1.	KC-01	30	10.0	0	0.	0	0.	
2.	KC-02	360	24.0	0	0.	0	0.	
3.	KC-03	46	21.0	1	0.048	75	175.250	DEFECTIVE NOTCH FILTER, DROP CONNECTOR
4.	KC-04	50	15.0	5	0.333	84	118.250	LOOSE CONNECTOR
						84	118.250	LOOSE CONNECTOR
						94	118.250	LOOSE CONNECTOR
						106	118.250	LOOSE CONNECTOR
						133	118.250	LOOSE CONNECTOR
5.	KC-05	146	27.0	3	0.111	50	118.250	UNKNOWN
						79	118.250	UNKNOWN
						355	118.250	LOOSE CONNECTOR
6.	KC-06	300	35.0	0	0.	0	0.	
7.	KC-07	52	30.0	4	0.133	56	118.250	LOOSE CONNECTOR
						89	118.250	UNSCREWED TAP
						100	118.250	BROKEN DROP SHIELD
						447	118.250	BROKEN DROP SHIELD
8.	KC-08	28	15.0	2	0.133	50	118.250	LOOSE CONNECTOR
						79	118.250	LOOSE CONNECTOR
9.	KC-09	45	25.0	3	0.120	63	73.500	BREAK IN CABLE
						71	73.500	BREAK IN CABLE
						447	73.500	BREAK IN CABLE
10.	KC-10	24	15.0	2	0.133	56	118.250	LOOSE F-CONNECTOR
						71	118.250	LOOSE CONNECTION
11.	KC-11	45	30.0	3	0.100	79	118.250	UNKNOWN
						100	118.250	UNKNOWN
						200	118.250	UNKNOWN
12.	KC-12	108	40.0	12	0.300	63	118.250	LOOSE FITTING
						71	118.250	UNKNOWN
						77	118.250	UNKNOWN
						79	118.250	LOOSE FITTINGS
						79	118.250	BAD GROUND ON DROP
						141	118.250	ILLEGAL TAP
						141	118.250	LOOSE FITTINGS
						141	118.250	BAD DROP WIRE
						158	118.250	LOOSE FITTING
						200	118.250	BAD SHIELD ON DROP

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
12.	KC-12	108	40.0	12	0.300	316	118.250	CRACKED SHIELD
						1000	118.250	CRACKED SHIELD
13.	KC-13	50	20.0	2	0.100	126	118.250	BAD CONNECTION
						200	118.250	BREAK IN DROP LINE
14.	KC-14	320	40.0	3	0.075	56	118.250	BAD SPLICES
						112	118.250	BAD SPLICES
						447	118.250	LEAKING TRUNK AMPLIFIER
15.	KC-15	98	35.0	8	0.229	79	157.250	UNKNOWN
						112	157.250	UNKNOWN
						112	157.250	UNKNOWN
						126	157.250	UNKNOWN
						447	157.250	UNKNOWN
						447	157.250	UNKNOWN
						631	157.250	UNKNOWN
						1000	157.250	UNKNOWN
16.	KC-16	20	15.0	3	0.200	50	175.220	UNKNOWN
						56	175.220	UNKNOWN
						100	175.220	UNKNOWN
17.	LB-01	96	60.0	5	0.083	501	163.500	BAD TAP, TWO BAD DROP LINES
						708	163.500	BAD TAP, DROP LINE
						890	175.250	BAD TAP, DROP LINE
						5010	163.500	BAD DROP LINE
						5600	175.250	BAD DROP LINE
18.	LB-02	108	35.0	4	0.114	70	109.250	BAD DROP LINE
						200	109.250	BAD F-CONNECTOR
						282	109.250	BAD SPLICE
						316	109.250	BAD DROP LINE
19.	LB-03	50	25.0	3	0.120	71	73.000	DEFECTIVE AMPLIFIER MODULE
						141	73.000	DEFECTIVE AMPLIFIER MODULE
						562	73.000	BAD FITTINGS ON LINE EXTENDER
20.	LB-04	115	40.0	3	0.075	100	109.275	ILLEGAL TAP
						355	109.275	LOOSE CONNECTOR
						447	109.275	LOOSE CONNECTOR
21.	MA-01	100	5.8	0	0.	0	0.	
22.	MA-02	62	25.0	2	0.080	254	65.750	UNKNOWN
						302	65.750	UNKNOWN
23.	MA-03	160	50.0	2	0.040	501	65.750	BAD CONNECTORS

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
23.	MA-03	160	50.0	2	0.040	1135	65.750	BAD TAP
24.	NF-01	220	20.0	3	0.150	69	77.250	BAD DISTRIBUTION CABLE, F-CONNECTORS
						200	77.250	BAD SPLICE
						300	77.250	BAD SPLICE, CRACKED CABLE
25.	NF-02	600	5.0	4	0.800	63	77.250	ILLEGAL DROP
						79	77.250	BAD F-FITTINGS, UNTERMINATED SPIGOT
						89	77.250	LOOSE F-FITTING
						200	77.250	ILLEGAL DROP
26.	NF-03	255	16.0	4	0.250	50	193.210	BAD CONNECTORS
						50	193.210	SEPARATED CONNECTOR
						70	193.210	UNKNOWN
						100	193.210	LOOSE CONNECTORS
27.	NF-04	70	10.0	3	0.300	69	61.279	LOOSE PRESSURE TAPS
						105	61.279	LOOSE PRESSURE TAPS
						220	61.279	LOOSE PRESSURE TAPS
28.	NF-05	250	43.0	2	0.047	89	83.250	RADIAL CRACK IN FEEDER CABLE
						200	83.250	BAD OR LOOSE CONNECTORS, DROPS
29.	NF-06	120	10.0	4	0.400	71	83.250	LOOSE CONNECTOR ON LINE
						126	83.250	LOOSE F-CONNECTOR, UNTERMINATED TAP
						178	83.250	BAD F-CONNECTOR
						200	83.250	BAD F-CONNECTOR
30.	NF-07	20	9.0	3	0.333	80	199.250	CORRODED CONNECTOR
						400	199.250	LOOSE SPLITTER CONNECTIONS
						625	199.250	CRACKED DISTRIBUTION LINE
31.	NF-08	100	19.0	3	0.158	63	146.250	LOOSE F-CONNECTOR
						65	121.250	BAD TAP CONNECTION
						80	139.250	LOOSE F-CONNECTOR
32.	NF-09	68	21.0	3	0.143	87	73.000	UNAUTHORIZED TAP
						88	83.250	UNAUTHORIZED TAP
						110	73.000	BROKEN SHIELD ON DISTRIBUTION CABLE
33.	NF-10	112	13.0	3	0.231	60	73.500	BAD PRESSURE TAP
						70	73.500	LOOSE F-CONNECTOR
						90	73.500	CRACKED DISTRIBUTION CABLE
34.	NF-11	450	12.0	3	0.250	50	211.250	LOOSE F-CONNECTOR
						53	211.250	BAD CONNECTOR ON DISTRIBUTION CABLE
						190	211.250	BAD DISTRIBUTION SPLITTER

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
35.	NF-12	75	5.0	5	1.000	58	67.250	LOOSE FITTINGS
						160	73.500	LOOSE FITTING ON DISTRIBUTION CABLE
						170	73.500	BROKEN SHIELD ON DISTRIBUTION CABLE
						214	73.500	BROKEN SHIELD ON DISTRIBUTION CABLE
						320	73.500	LOOSE FITTING
36.	NF-13	26	10.0	3	0.300	65	187.250	BAD PRESSURE TAP, DROP CABLE
						83	187.250	THREE LOOSE PRESSURE BLOCKS
						160	187.250	CRACKED CABLE
37.	NF-14	200	5.0	3	0.600	88	187.250	INCORRECT PRESSURE TAP
						131	118.250	BROKEN DISTRIBUTION AND DROP CABLE
						155	73.500	BAD SPLICE, LOOSE DISTRIBUTION LINE FITTING
38.	NF-15	500	12.0	3	0.250	100	145.250	ILLEGAL TAP
						180	145.250	BAD UNTERMINATED TAP
						200	145.250	LOOSE CONNECTORS ON TAP, TRUNK
39.	NF-16	1000	12.0	3	0.250	60	169.250	MATCHING TRANSFORMER, BAD DROP CABLE
						130	169.250	ILLEGAL TAP
						133	169.250	UNKNOWN
40.	PA-01	293	1.3	3	2.308	316	73.500	UNKNOWN
						316	73.500	BAD CONNECTOR, SPLITTER
						565	73.500	BAD CONNECTOR
41.	PA-02	84	20.0	0	0.	0	0.	
42.	PA-03	400	20.0	3	0.150	71	77.250	DEFECTIVE SPLICE, LOOSE SPLITTER
						178	77.250	TWO LOOSE F-CONNECTORS
						501	77.250	UNTERMINATED DROP
43.	PA-04	70	1.0	4	4.000	50	173.997	BAD CONNECTORS, DROP CABLE
						53	173.997	BAD CONNECTORS, DROP CABLE
						60	173.997	BAD SPLITTER, UNAUTHORIZED TAP
						125	173.997	BAD CONNECTORS, DROP CABLE
44.	PA-06	168	3.0	3	1.000	50	175.250	LOOSE CONNECTOR
						56	175.250	LOOSE CONNECTOR
						70	175.250	CRACKED CABLE
45.	PA-07	364	20.0	1	0.050	71	77.250	UNKNOWN
46.	PA-08	40	10.0	0	0.	0	0.	
47.	PA-09	31	2.0	3	1.500	50	73.500	UNKNOWN
						71	67.250	UNKNOWN

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
47.	PA-09	31	2.0	3	1.500	112	73.500	UNKNOWN
48.	PA-10	80	2.0	3	1.500	50	73.000	BAD PRESSURE TAP
						63	73.000	BAD PRESSURE TAP
						63	73.000	LOOSE F-CONNECTOR
49.	PA-11	18	5.0	3	0.600	50	109.750	UNKNOWN
						55	109.750	UNKNOWN
						60	109.750	BAD F-CONNECTOR
50.	PA-12	110	15.0	3	0.200	50	77.250	BAD DROP CABLE
						55	77.250	ILLEGAL TAP
						60	77.250	LOOSE F-CONNECTOR
51.	PA-13	273	10.0	1	0.100	325	175.250	BAD F-CONNECTOR
52.	PA-14	76	8.0	0	0.	0	0.	
53.	SF-01	413	15.0	0	0.	0	0.	
54.	SF-02	340	10.0	0	0.	0	0.	
55.	SF-03	316	10.0	0	0.	0	0.	
56.	SF-04	240	15.0	2	0.133	1335	166.500	CRACKED CABLE
						1425	166.500	CRACKED CABLE
57.	SF-05	404	10.0	2	0.200	238	165.050	UNKNOWN
						517	165.050	UNKNOWN
58.	SF-06	140	40.0	0	0.	0	0.	
59.	SF-07	105	10.0	0	0.	0	0.	
60.	SF-08	76	5.0	0	0.	0	0.	
61.	SF-09	150	20.0	3	0.150	63	73.500	UNKNOWN
						99	73.500	UNKNOWN
						147	77.250	UNKNOWN
62.	SF-10	109	10.0	3	0.300	80	186.000	UNKNOWN
						140	174.000	UNKNOWN
						160	180.000	UNKNOWN
63.	SF-11	25	5.0	1	0.200	130	118.245	UNKNOWN
64.	SF-12	80	10.0	3	0.300	50	121.255	UNKNOWN

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
64.	SF-12	80	10.0	3	0.300	130	118.250	UNKNOWN
						900	118.250	UNKNOWN
65.	SF-13	118	10.0	2	0.200	312	168.000	LOOSE CONNECTORS ON DISTRIBUTION CABLE
						594	133.000	BROKEN SHIELD

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
1.	KC-01	30	10.0	0	0.	0	0.	
2.	KC-02	360	24.0	0	0.	0	0.	
3.	KC-06	300	35.0	0	0.	0	0.	
4.	MA-01	100	5.8	0	0.	0	0.	
5.	PA-02	84	20.0	0	0.	0	0.	
6.	PA-08	40	10.0	0	0.	0	0.	
7.	PA-14	76	8.0	0	0.	0	0.	
8.	SF-01	413	15.0	0	0.	0	0.	
9.	SF-02	340	10.0	0	0.	0	0.	
10.	SF-03	316	10.0	0	0.	0	0.	
11.	SF-06	140	40.0	0	0.	0	0.	
12.	SF-07	105	10.0	0	0.	0	0.	
13.	SF-08	76	5.0	0	0.	0	0.	
14.	KC-05	146	27.0	3	0.111	50	118.250	UNKNOWN
15.	KC-08	28	15.0	2	0.133	50	118.250	LOOSE CONNECTOR
16.	KC-16	20	15.0	3	0.200	50	175.220	UNKNOWN
17.	NF-03	255	16.0	4	0.250	50	193.210	BAD CONNECTORS
18.	NF-03	255	16.0	4	0.250	50	193.210	SEPARATED CONNECTOR
19.	NF-11	450	12.0	3	0.250	50	211.250	LOOSE F-CONNECTOR
20.	PA-04	70	1.0	4	4.000	50	173.997	BAD CONNECTORS, DROP CABLE
21.	PA-06	168	3.0	3	1.000	50	175.250	LOOSE CONNECTOR
22.	PA-09	31	2.0	3	1.500	50	73.500	UNKNOWN
23.	PA-10	80	2.0	3	1.500	50	73.000	BAD PRESSURE TAP
24.	PA-11	18	5.0	3	0.600	50	109.750	UNKNOWN
25.	PA-12	110	15.0	3	0.200	50	77.250	BAD DROP CABLE
26.	SF-12	80	10.0	3	0.300	50	121.255	UNKNOWN
27.	NF-11	450	12.0	3	0.250	53	211.250	BAD CONNECTOR ON DISTRIBUTION CABLE
28.	PA-04	70	1.0	4	4.000	53	173.997	BAD CONNECTORS, DROP CABLE
29.	PA-11	18	5.0	3	0.600	55	109.750	UNKNOWN
30.	PA-12	110	15.0	3	0.200	55	77.250	ILLEGAL TAP
31.	KC-07	52	30.0	4	0.133	56	118.250	LOOSE CONNECTOR
32.	KC-10	24	15.0	2	0.133	56	118.250	LOOSE F-CONNECTOR
33.	KC-14	320	40.0	3	0.075	56	118.250	BAD SPLICES
34.	KC-16	20	15.0	3	0.200	56	175.220	UNKNOWN
35.	PA-06	168	3.0	3	1.000	56	175.250	LOOSE CONNECTOR
36.	NF-12	75	5.0	5	1.000	58	67.250	LOOSE FITTINGS
37.	NF-10	112	13.0	3	0.231	60	73.500	BAD PRESSURE TAP
38.	NF-16	1000	12.0	3	0.250	60	169.250	MATCHING TRANSFORMER, BAD DROP CABLE
39.	PA-04	70	1.0	4	4.000	60	173.997	BAD SPLITTER, UNAUTHORIZED TAP
40.	PA-11	18	5.0	3	0.600	60	109.750	BAD F-CONNECTOR
41.	PA-12	110	15.0	3	0.200	60	77.250	LOOSE F-CONNECTOR
42.	KC-09	45	25.0	3	0.120	63	73.500	BREAK IN CABLE
43.	KC-12	108	40.0	12	0.300	63	118.250	LOOSE FITTING
44.	NF-02	600	5.0	4	0.800	63	77.250	ILLEGAL DROP
45.	NF-08	100	19.0	3	0.158	63	146.250	LOOSE F-CONNECTOR
46.	PA-10	80	2.0	3	1.500	63	73.000	BAD PRESSURE TAP
47.	PA-10	80	2.0	3	1.500	63	73.000	LOOSE F-CONNECTOR
48.	SF-09	150	20.0	3	0.150	63	73.500	UNKNOWN
49.	NF-08	100	19.0	3	0.158	65	121.250	BAD TAP CONNECTION
50.	NF-13	26	10.0	3	0.300	65	187.250	BAD PRESSURE TAP, DROP CABLE

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
51.	NF-01	220	20.0	3	0.150	69	77.250	BAD DISTRIBUTION CABLE, F-CONNECTORS
52.	NF-04	70	10.0	3	0.300	69	61.279	LOOSE PRESSURE TAPS
53.	LB-02	108	35.0	4	0.114	70	109.250	BAD DROP LINE
54.	NF-03	255	16.0	4	0.250	70	193.210	UNKNOWN
55.	NF-10	112	13.0	3	0.231	70	73.500	LOOSE F-CONNECTOR
56.	PA-06	168	3.0	3	1.000	70	175.250	CRACKED CABLE
57.	KC-09	45	25.0	3	0.120	71	73.500	BREAK IN CABLE
58.	KC-10	24	15.0	2	0.133	71	118.250	LOOSE CONNECTION
59.	KC-12	108	40.0	12	0.300	71	118.250	UNKNOWN
60.	LB-03	50	25.0	3	0.120	71	73.000	DEFECTIVE AMPLIFIER MODULE
61.	NF-06	120	10.0	4	0.400	71	83.250	LOOSE CONNECTOR ON LINE
62.	PA-03	400	20.0	3	0.150	71	77.250	DEFECTIVE SPLICE; LOOSE SPLITTER
63.	PA-07	364	20.0	1	0.050	71	77.250	UNKNOWN
64.	PA-09	31	2.0	3	1.500	71	67.250	UNKNOWN
65.	KC-03	46	21.0	1	0.048	75	175.250	DEFECTIVE NOTCH FILTER, DROP CONNECTOR
66.	KC-12	108	40.0	12	0.300	77	118.250	UNKNOWN
67.	KC-05	146	27.0	3	0.111	79	118.250	UNKNOWN
68.	KC-08	28	15.0	2	0.133	79	118.250	LOOSE CONNECTOR
69.	KC-11	45	30.0	3	0.100	79	118.250	UNKNOWN
70.	KC-12	108	40.0	12	0.300	79	118.250	LOOSE FITTINGS
71.	KC-12	108	40.0	12	0.300	79	118.250	BAD GROUND ON DROP
72.	KC-15	98	35.0	8	0.229	79	157.250	UNKNOWN
73.	NF-02	600	5.0	4	0.800	79	77.250	BAD F-FITTINGS, UNTERMINATED SPIGOT
74.	NF-07	20	9.0	3	0.333	80	199.250	CORRODED CONNECTOR
75.	NF-08	100	19.0	3	0.158	80	139.250	LOOSE F-CONNECTOR
76.	SF-10	109	10.0	3	0.300	80	186.000	UNKNOWN
77.	NF-13	26	10.0	3	0.300	83	187.250	THREE LOOSE PRESSURE BLOCKS
78.	KC-04	50	15.0	5	0.333	84	118.250	LOOSE CONNECTOR
79.	KC-04	50	15.0	5	0.333	84	118.250	LOOSE CONNECTOR
80.	NF-09	68	21.0	3	0.143	87	73.000	UNAUTHORIZED TAP
81.	NF-09	68	21.0	3	0.143	88	83.250	UNAUTHORIZED TAP
82.	NF-14	200	5.0	3	0.600	88	187.250	INCORRECT PRESSURE TAP
83.	KC-07	52	30.0	4	0.133	89	118.250	UNSCREWED TAP
84.	NF-02	600	5.0	4	0.800	89	77.250	LOOSE F-FITTING
85.	NF-05	250	43.0	2	0.047	89	83.250	RADIAL CRACK IN FEEDER CABLE
86.	NF-10	112	13.0	3	0.231	90	73.500	CRACKED DISTRIBUTION CABLE
87.	KC-04	50	15.0	5	0.333	94	118.250	LOOSE CONNECTOR
88.	SF-09	150	20.0	3	0.150	99	73.500	UNKNOWN
89.	KC-07	52	30.0	4	0.133	100	118.250	BROKEN DROP SHIELD
90.	KC-11	45	30.0	3	0.100	100	118.250	UNKNOWN
91.	KC-16	20	15.0	3	0.200	100	175.220	UNKNOWN
92.	LB-04	115	40.0	3	0.075	100	109.275	ILLEGAL TAP
93.	NF-03	255	16.0	4	0.250	100	193.210	LOOSE CONNECTORS
94.	NF-15	500	12.0	3	0.250	100	145.250	ILLEGAL TAP
95.	NF-04	70	10.0	3	0.300	105	61.279	LOOSE PRESSURE TAPS
96.	KC-04	50	15.0	5	0.333	106	118.250	LOOSE CONNECTOR
97.	NF-09	68	21.0	5	0.238	110	73.000	BROKEN SHIELD ON DISTRIBUTION CABLE
98.	KC-14	320	40.0	3	0.075	112	118.250	BAD SPLICES
99.	KC-15	98	35.0	8	0.229	112	157.250	UNKNOWN
100.	KC-15	98	35.0	8	0.229	112	157.250	UNKNOWN

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
101.	PA-09	31	2.0	3	1.500	112	73.500	UNKNOWN
102.	PA-04	70	1.0	4	4.000	125	173.997	BAD CONNECTORS, DROP CABLE
103.	KC-13	50	20.0	2	0.100	126	113.250	BAD CONNECTION
104.	KC-15	98	35.0	8	0.229	126	157.250	UNKNOWN
105.	NF-06	120	10.0	4	0.400	126	83.250	LOOSE F-CONNECTOR, UNTERMINATED TAP
106.	NF-16	1000	12.0	3	0.250	130	169.250	ILLEGAL TAP
107.	SF-11	25	5.0	1	0.200	130	118.245	UNKNOWN
108.	SF-12	80	10.0	3	0.300	130	118.250	UNKNOWN
109.	NF-14	200	3.0	3	1.000	131	118.250	BROKEN DISTRIBUTION AND DROP CABLE
110.	KC-04	50	15.0	5	0.333	133	118.250	LOOSE CONNECTOR
111.	NF-16	1000	12.0	3	0.250	133	169.250	UNKNOWN
112.	SF-10	109	10.0	3	0.300	140	174.000	UNKNOWN
113.	KC-12	108	40.0	12	0.300	141	118.250	ILLEGAL TAP
114.	KC-12	108	40.0	12	0.300	141	118.250	LOOSE FITTINGS
115.	KC-12	108	40.0	12	0.300	141	118.250	BAD DROP WIRE
116.	LB-03	50	25.0	3	0.120	141	73.000	DEFECTIVE AMPLIFIER MODULE
117.	SF-09	150	20.0	3	0.150	147	77.250	UNKNOWN
118.	NF-14	200	5.0	3	0.600	155	73.500	BAD SPLICE, LOOSE DISTRIBUTION LINE FITTING
119.	KC-12	108	40.0	12	0.300	158	118.250	LOOSE FITTING
120.	NF-12	75	5.0	5	1.000	160	73.500	LOOSE FITTING ON DISTRIBUTION CABLE
121.	NF-13	26	10.0	3	0.300	160	167.250	CRACKED CABLE
122.	SF-10	109	10.0	3	0.300	160	180.000	UNKNOWN
123.	NF-12	75	5.0	5	1.000	170	73.500	BROKEN SHIELD ON DISTRIBUTION CABLE
124.	NF-06	120	10.0	4	0.400	178	83.250	BAD F-CONNECTOR
125.	PA-03	400	20.0	3	0.150	178	77.250	TWO LOOSE F-CONNECTORS
126.	NF-15	500	12.0	3	0.250	180	145.250	BAD UNTERMINATED TAP
127.	NF-11	450	12.0	3	0.250	190	211.250	BAD DISTRIBUTION SPLITTER
128.	KC-11	45	30.0	3	0.100	200	118.250	UNKNOWN
129.	KC-12	108	40.0	12	0.300	200	118.250	BAD SHIELD ON DROP
130.	KC-13	50	20.0	2	0.100	200	118.250	BREAK IN DROP LINE
131.	LB-02	108	35.0	4	0.114	200	109.250	BAD F-CONNECTOR
132.	NF-01	220	20.0	3	0.150	200	77.250	BAD SPLICE
133.	NF-02	600	5.0	4	0.800	200	77.250	ILLEGAL DROP
134.	NF-05	250	43.0	2	0.047	200	83.250	BAD OR LOOSE CONNECTORS, DROPS
135.	NF-06	120	10.0	4	0.400	200	83.250	BAD F-CONNECTOR
136.	NF-15	500	12.0	3	0.250	200	145.250	LOOSE CONNECTORS ON TAP, TRUNK
137.	NF-12	75	5.0	5	1.000	214	73.500	BROKEN SHIELD ON DISTRIBUTION CABLE
138.	NF-04	70	10.0	3	0.300	220	61.279	LOOSE PRESSURE TAPS
139.	SF-05	404	10.0	2	0.200	238	165.050	UNKNOWN
140.	MA-02	62	25.0	2	0.080	254	65.750	UNKNOWN
141.	LB-02	108	35.0	4	0.114	282	109.250	BAD SPLICE
142.	NF-01	220	20.0	3	0.150	300	77.250	BAD SPLICE, CRACKED CABLE
143.	MA-02	62	25.0	2	0.080	302	65.750	UNKNOWN
144.	SF-13	118	10.0	2	0.200	312	168.000	LOOSE CONNECTORS ON DISTRIBUTION CABLE
145.	KC-12	108	40.0	12	0.300	316	118.250	CRACKED SHIELD
146.	LB-02	108	35.0	4	0.114	316	109.250	BAD DROP LINE
147.	PA-01	293	1.3	3	2.308	316	73.500	UNKNOWN
148.	PA-01	293	1.3	3	2.308	316	73.500	BAD CONNECTOR, SPLITTER
149.	NF-12	75	5.0	5	1.000	320	73.500	LOOSE FITTING
150.	PA-13	273	10.0	1	0.100	325	175.250	BAD F-CONNECTOR

NO.	OFF-SYS	SYSTEM LENGTH	MILES INSP	# OF LEAKS	LEAKS PER MI	LEAK	FREQ	CAUSE
151.	KC-05	146	27.0	3	0.111	355	118.250	LOOSE CONNECTOR
152.	LB-04	115	40.0	3	0.075	355	109.275	LOOSE CONNECTOR
153.	NF-07	20	9.0	3	0.333	400	199.250	LOOSE SPLITTER CONNECTIONS
154.	KC-07	52	30.0	4	0.133	447	118.250	BROKEN DROP SHIELD
155.	KC-09	45	25.0	3	0.120	447	73.500	BREAK IN CABLE
156.	KC-14	320	40.0	3	0.075	447	118.250	LEAKING TRUNK AMPLIFIER
157.	KC-15	98	35.0	8	0.229	447	157.250	UNKNOWN
158.	KC-15	98	35.0	8	0.229	447	157.250	UNKNOWN
159.	LB-04	115	40.0	3	0.075	447	109.275	LOOSE CONNECTOR
160.	LB-01	96	60.0	5	0.083	501	163.500	BAD TAP, TWO BAD DROP LINES
161.	MA-03	160	50.0	2	0.040	501	65.750	BAD CONNECTORS
162.	PA-03	400	20.0	3	0.150	501	77.250	UNTERMINATED DROP
163.	SF-05	404	10.0	2	0.200	517	165.050	UNKNOWN
164.	LB-03	50	25.0	3	0.120	562	73.000	BAD FITTINGS ON LINE EXTENDER
165.	PA-01	293	1.3	3	2.308	565	73.500	BAD CONNECTOR
166.	SF-13	118	10.0	2	0.200	594	133.000	BROKEN SHIELD
167.	NF-07	20	9.0	3	0.333	625	199.250	CRACKED DISTRIBUTION LINE
168.	KC-15	98	35.0	8	0.229	631	157.250	UNKNOWN
169.	LB-01	96	60.0	5	0.083	708	163.500	BAD TAP, DROP LINE
170.	LB-01	96	60.0	5	0.083	890	175.250	BAD TAP, DROP LINE
171.	SF-12	80	10.0	3	0.300	900	118.250	UNKNOWN
172.	KC-12	108	40.0	12	0.300	1000	118.250	CRACKED SHIELD
173.	KC-15	98	35.0	8	0.229	1000	157.250	UNKNOWN
174.	MA-03	160	50.0	2	0.040	1135	65.750	BAD TAP
175.	SF-04	240	15.0	2	0.133	1335	166.500	CRACKED CABLE
176.	SF-04	240	15.0	2	0.133	1425	166.500	CRACKED CABLE
177.	LB-01	96	60.0	5	0.083	5010	163.500	BAD DROP LINE
178.	LB-01	96	60.0	5	0.083	5600	175.250	BAD DROP LINE

APPENDIX D
TEXT: 2.2.1

```
     CATV MEASUREMENT SYSTEM
TO DISCARD CURRENT ANSWER TYPE "ESC" .

1)  ENTER DATE (MM.DD.YY) :>08.30.78

2)  ENTER FLIGHT NUMBER :>ST JOE 2

3)  ENTER CATV SYSTEM ID:>

4)  ENTER FREQUENCY (MHZ):>118

5)  ENTER AIRCRAFT ANTENNA ID:>KC5

6)  ENTER AIRCRAFT ALTITUDE (FT):>1500

7)  ENTER AIRCRAFT GROUND SPEED (KTS):>140

 IF YOU DESIRE TO CHANGE THE ANSWER TO A QUESTION TYPE ITS NUMBER
 OTHERWISE TYPE A CARRIAGE RETURN
>0
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CATV MEASUREMENT SYSTEM: IN-FLIGHT STATISTICS

TIME HH:MM:SS	SIGNAL LEVEL IN DBM LT: -130 / GT: -140	-120 / -130	-110 / -120	-100 / -110	-90 / -100	-80 / -90	-70 / -80	-60 / -70	-50 / -60
21:16:34	*** SYSTEM STARTED ***								
21:16:59	04434	00550	00016	00000	00000	00000	00000	00000	00000
21:17:25	03620	01358	00042	00000	00000	00000	00000	00000	00000
21:17:50	03513	01474	00013	00000	00000	00000	00000	00000	00000
21:18:15	03382	01612	00006	00000	00000	00000	00000	00000	00000
21:18:40	02296	02663	00041	00000	00000	00000	00000	00000	00000
21:19:06	01763	02112	00120	00000	00243	00747	00010	00000	00000
21:19:31	03579	01404	00017	00000	00000	00000	00000	00000	00000
21:19:56	04544	00456	00000	00000	00000	00000	00000	00000	00000
21:20:21	03535	01439	00035	00001	00000	00000	00000	00000	00000
21:20:47	03445	00988	00567	00000	00000	00000	00000	00000	00000
21:21:12	03956	00670	00350	00024	00000	00000	00000	00000	00000
21:21:37	03507	00236	00001	00062	01194	00000	00000	00000	00000
17 21:22:02	04497	00502	00001	00000	00000	00000	00000	00000	00000
21:22:28	03996	00988	00016	00000	00000	00000	00000	00000	00000
21:22:53	02854	01997	00149	00000	00000	00000	00000	00000	00000
21:23:18	03564	01431	00005	00000	00000	00000	00000	00000	00000
21:23:43	03222	01553	00027	00103	00095	00000	00000	00000	00000
21:24:09	02327	02579	00094	00000	00000	00000	00000	00000	00000
22:01:11	00210	01110	03190	00490	00000	00000	00000	00000	00000
22:01:36	00116	00739	02785	01138	00222	00000	00000	00000	00000
22:02:01	00134	00890	03450	00526	00000	00000	00000	00000	00000
22:02:27	00270	01588	02101	00375	00666	00000	00000	00000	00000
22:02:52	01265	03026	00702	00007	00000	00000	00000	00000	00000
22:03:17	02423	02478	00099	00000	00000	00000	00000	00000	00000
22:03:42	03210	01788	00002	00000	00000	00000	00000	00000	00000
22:04:08	04019	00980	00001	00000	00000	00000	00000	00000	00000
18 22:04:33	02808	01243	00011	00438	00459	00041	00000	00000	00000
22:04:58	02070	02518	00086	00001	00003	00322	00000	00000	00000
22:05:23	01305	02991	00704	00000	00000	00000	00000	00000	00000
22:05:49	00255	01655	01148	00716	01084	00141	00001	00000	00000
22:06:14	00113	00674	01169	01073	00880	00846	00029	00000	00000
22:06:39	00114	00731	02371	01153	00444	00187	00000	00000	00000
22:07:04	00081	00518	02055	01562	00458	00326	00000	00000	00000
22:07:30	00064	00689	02858	01389	00000	00000	00000	00000	00000
22:07:55	00137	01145	03251	00467	00000	00000	00000	00000	00000
19 22:08:20	00486	02899	01611	00004	00000	00000	00000	00000	00000
22:08:46	00341	01546	00997	00977	00720	00418	00001	00000	00000
22:09:11	00226	01190	02652	00762	00052	00118	00000	00000	00000
22:09:36	00129	00901	03026	00795	00149	00000	00000	00000	00000
22:10:01	00093	00677	02422	00953	00450	00400	00005	00000	00000
22:10:27	00168	00932	03074	00826	00000	00000	00000	00000	00000
22:10:52	00213	01224	03202	00361	00000	00000	00000	00000	00000

```
***   FRONT-PANEL INTERRUPT AT TIME  22:11:03

CURRENT TAPE BUFFER HEADER CONTENTS:
5000 20 32 32 3A 31 31 3A 30 32 20 95 94 03 85 44 C9
5010 18 69 01 15 37 18 09 90

CURRENT RCVR SAMPLE BUFFER STARTS AT LOC: 5018

NEXT RCVR SAMPLE TO FILL AT LOC: 5138

CURRENT BINS START AT LOC: 5812

CURRENT BIN STATISTICS:
      00145  00852  01137  00010  00000  00000  00000  00000  00000


TO EXIT SYSTEM, TYPE AN "E",
TO RESTART SYSTEM, TYPE AN "S"
>S
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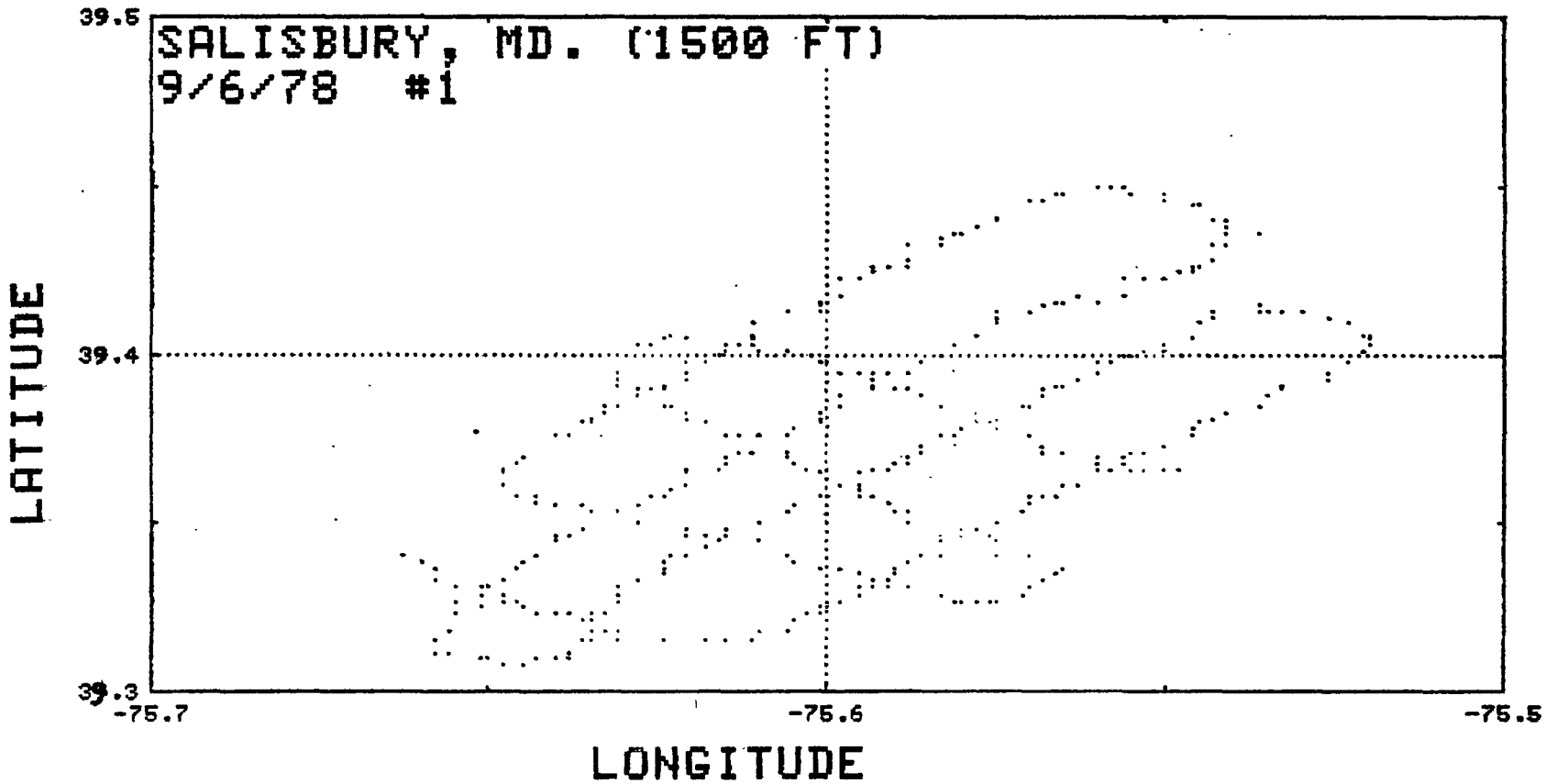
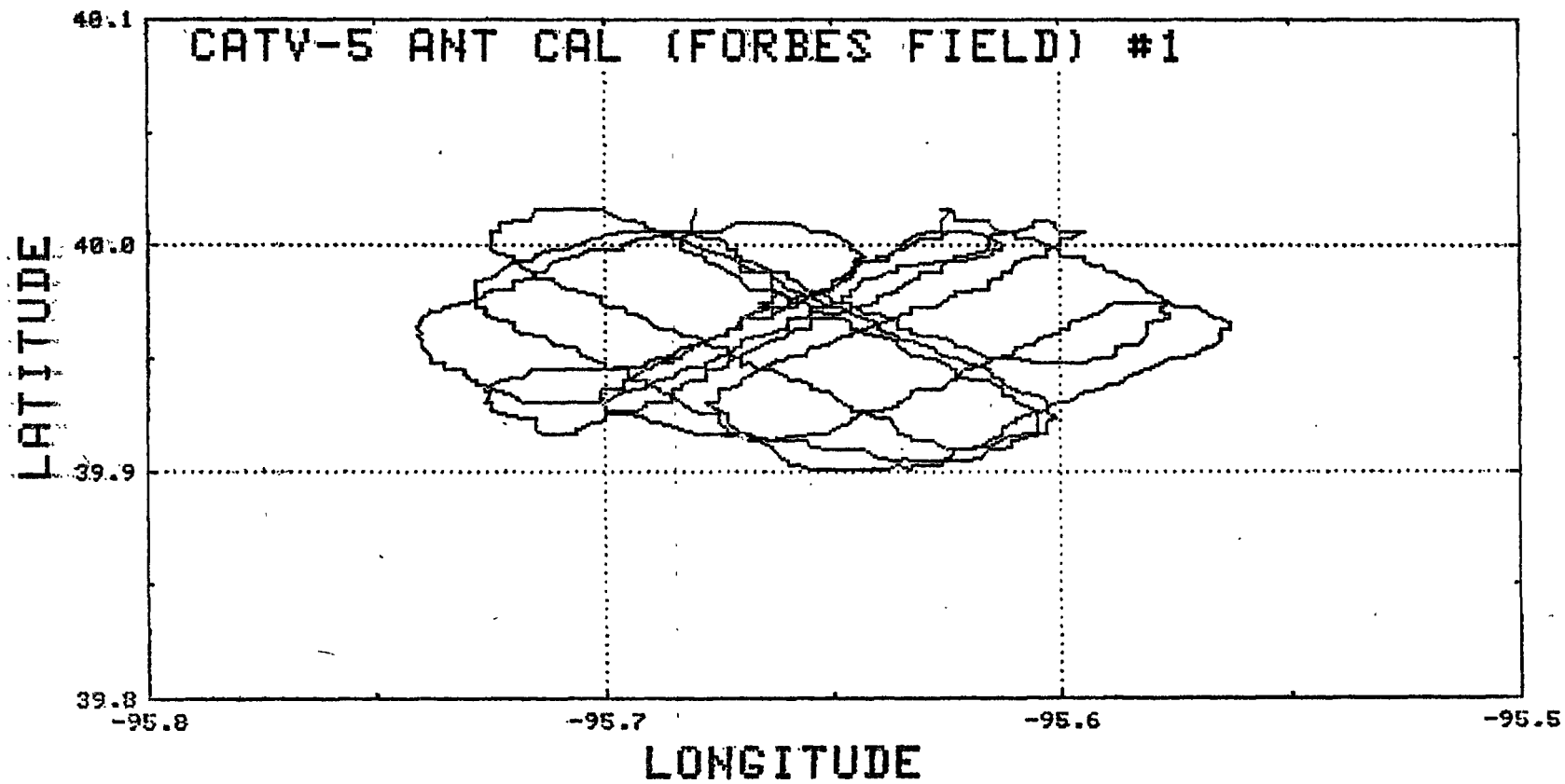


INERTIAL NAVIGATION SYSTEM (INS)

MAP OF FLIGHT PATH OVER SALISBURY, MD

FIGURE E.1

Text: Section 2.1.1

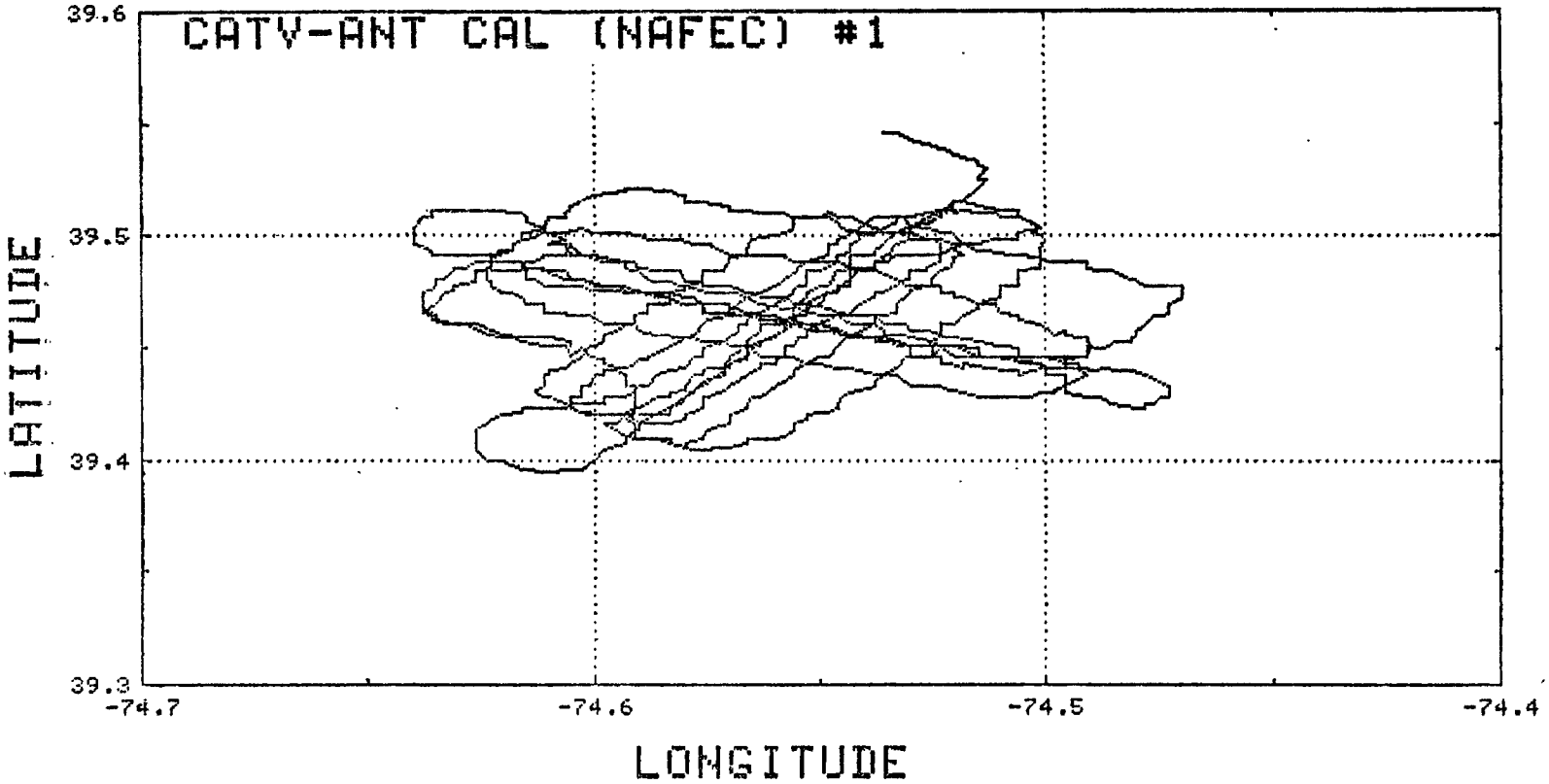


INERTIAL NAVIGATION SYSTEM (INS)

MAP OF FLIGHT PATH FOR VERTICAL
ANTENNA CALIBRATION

Text: Sections 2.1.1 and 2.2.2

FIGURE E.2



INERTIAL NAVIGATION SYSTEM (INS)

MAP OF FLIGHT PATH FOR HORIZONTAL ANTENNA CALIBRATION

Text: Sections 2.1.1 and 2.2.2

FIGURE E.3

FLIGHT PLAN FOR TESTS OVER SALISBURY, MD. RUNS 1 - 9: 450 METERS. RUNS 10 - 12: 1500 METERS. RUNS 13 - 14: 3000 METERS. THIS PLAN IS TYPICAL OF FLIGHT PATHS OVER OTHER CITIES.

Figure E.4

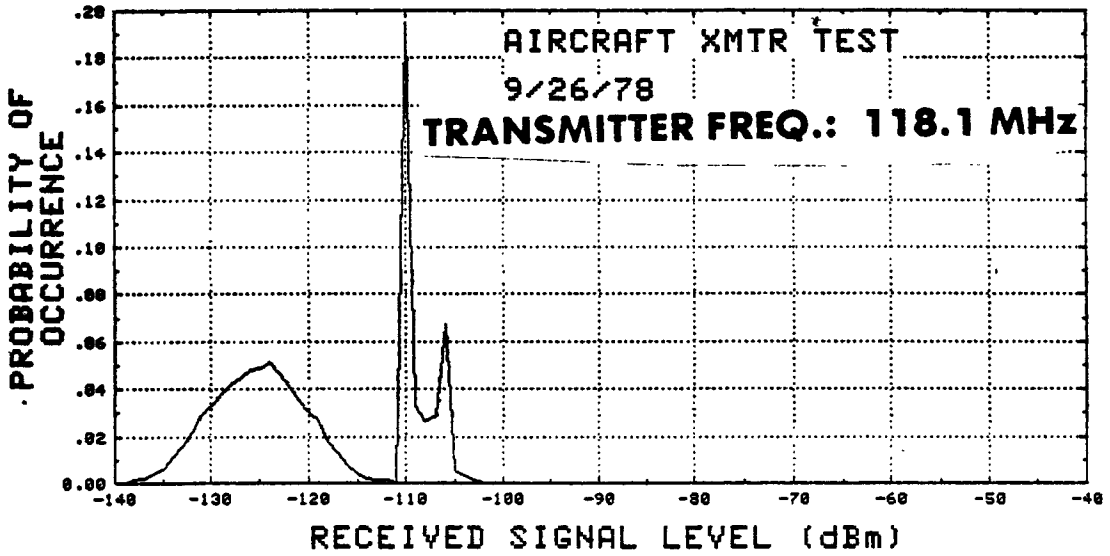


Figure F.1

Text: Section 2.1.4

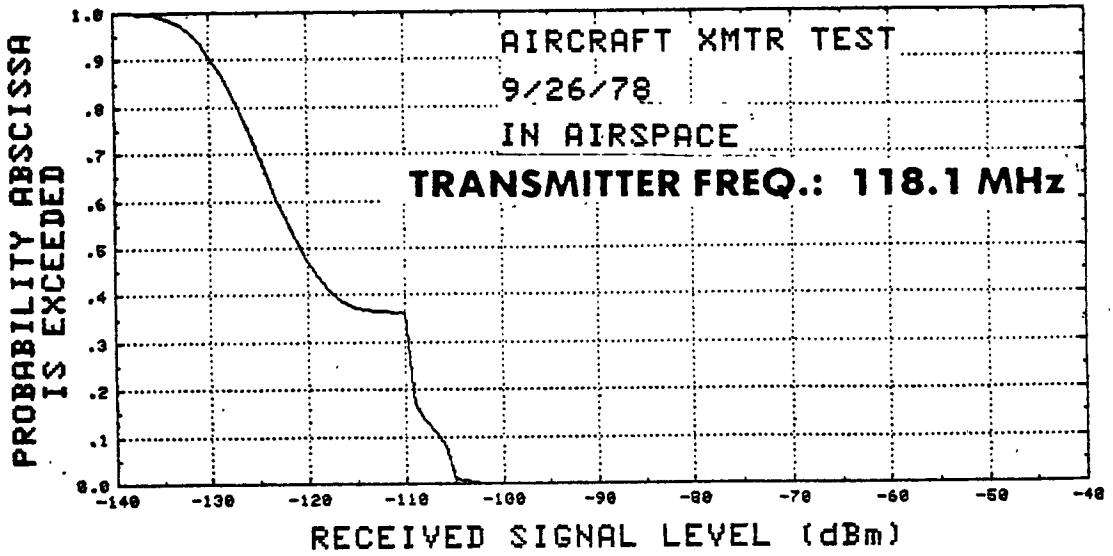


Figure F.2

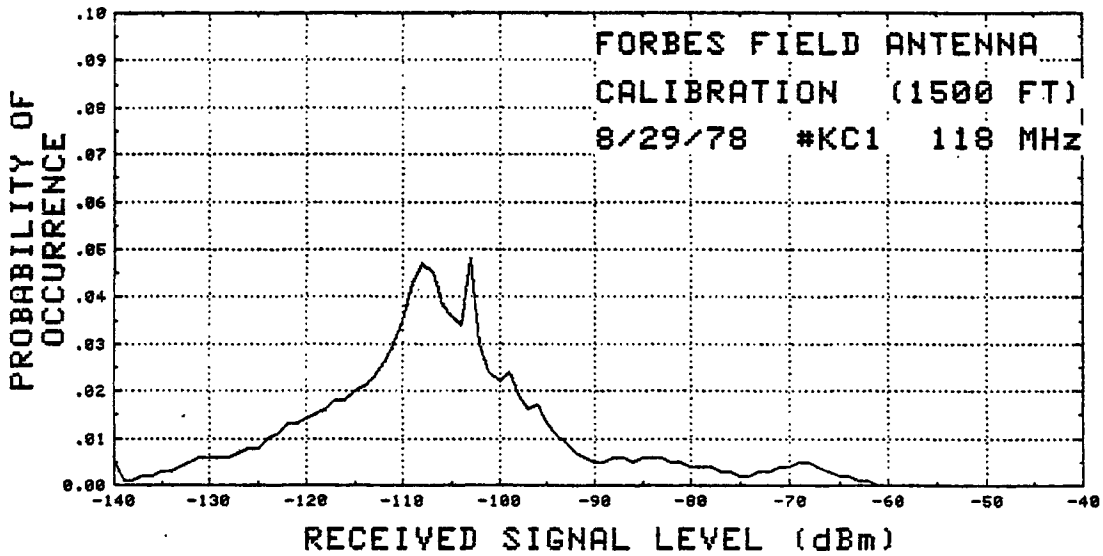


Figure F.3

Text: Section 2.2.2

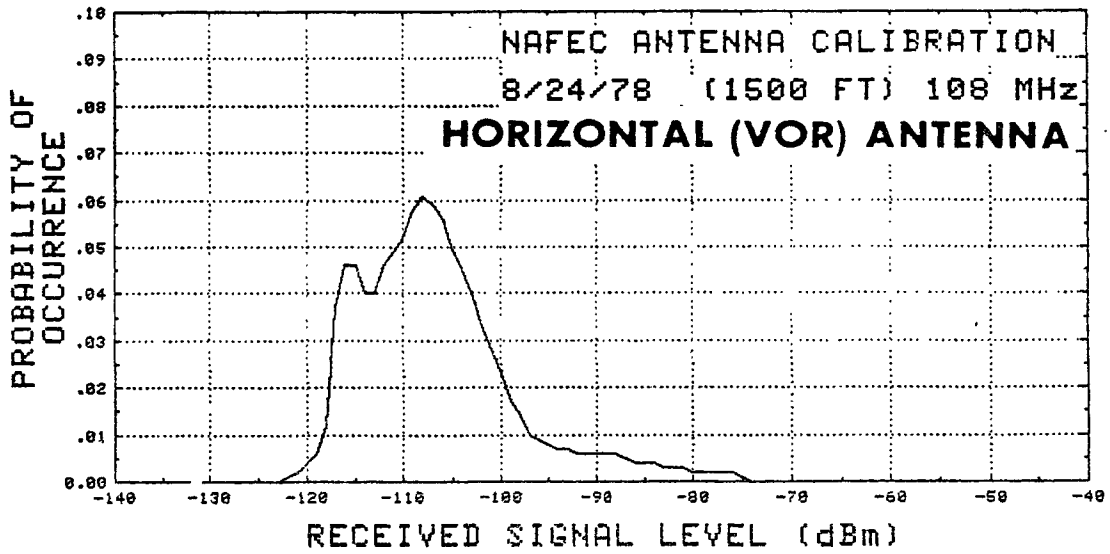


Figure F.4

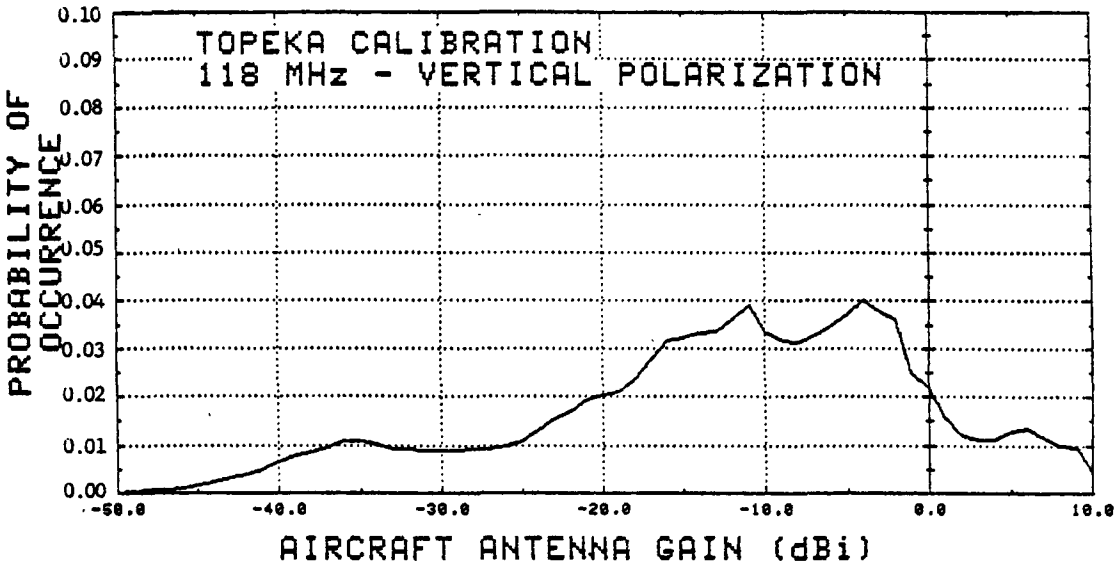


Figure F.5

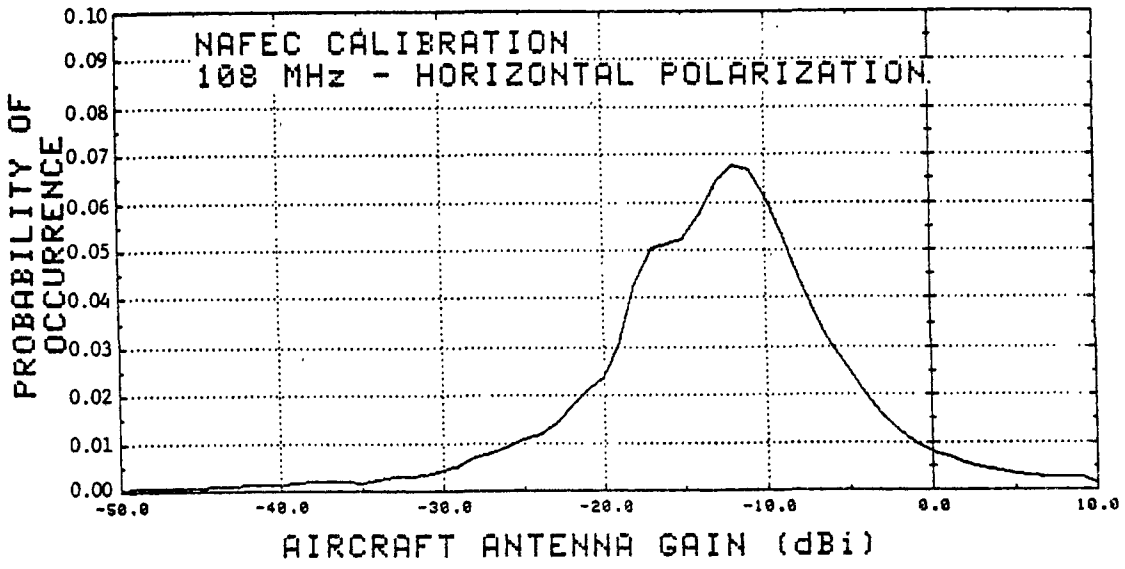


Figure F.6

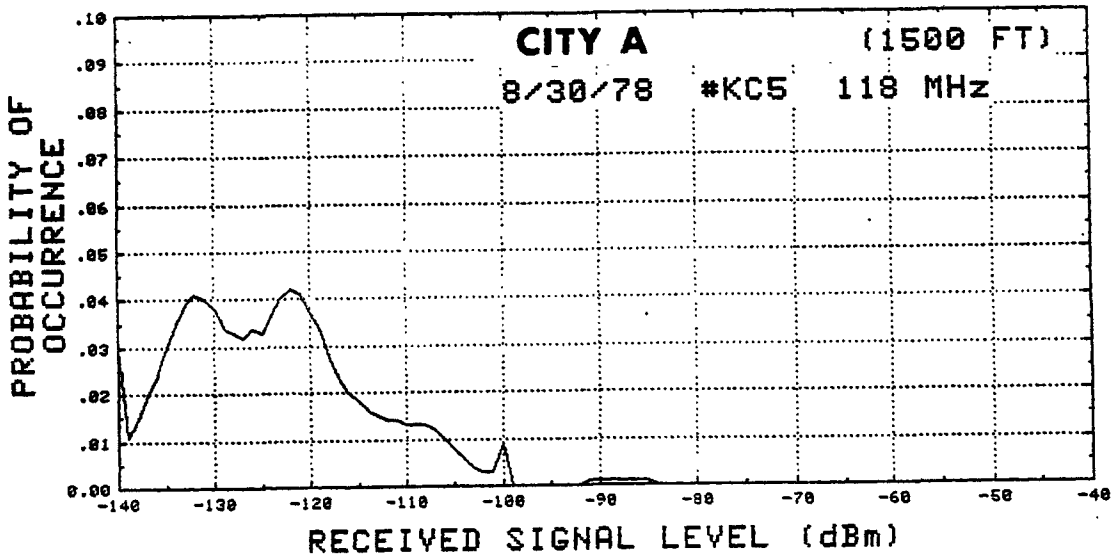
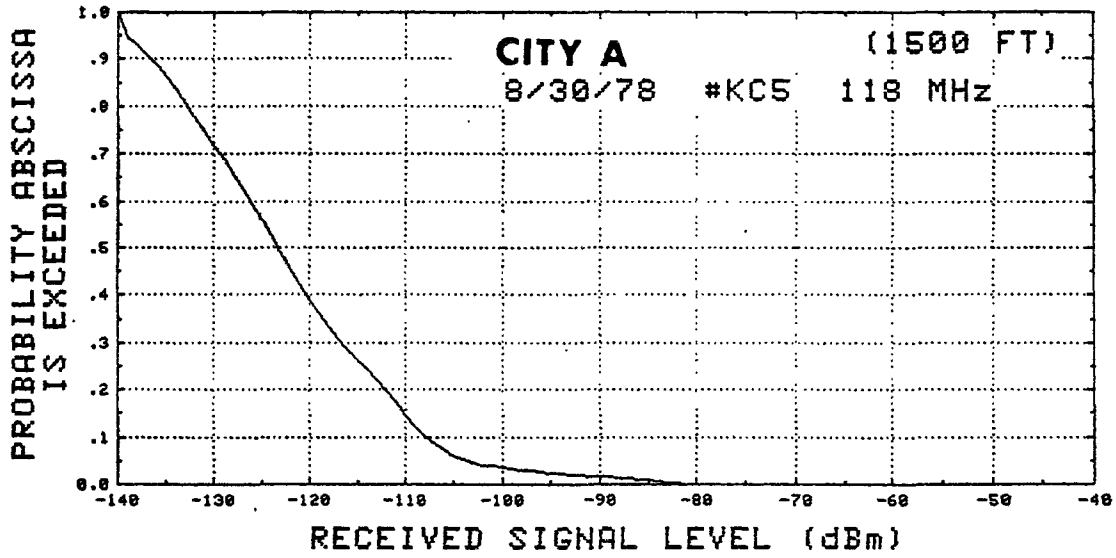


Figure F.7



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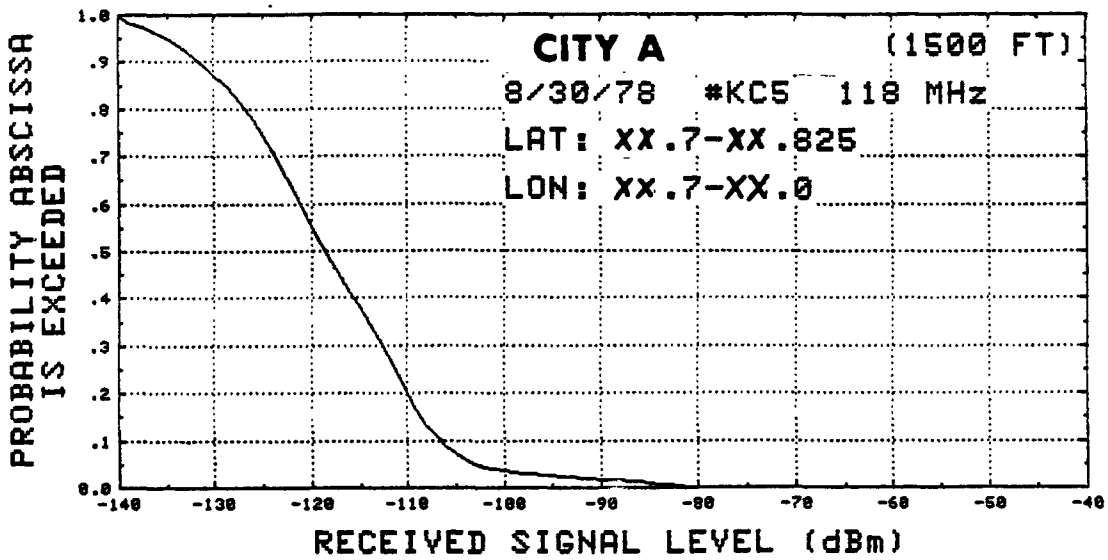


Figure F.9

Text: Section 2.2.3.5

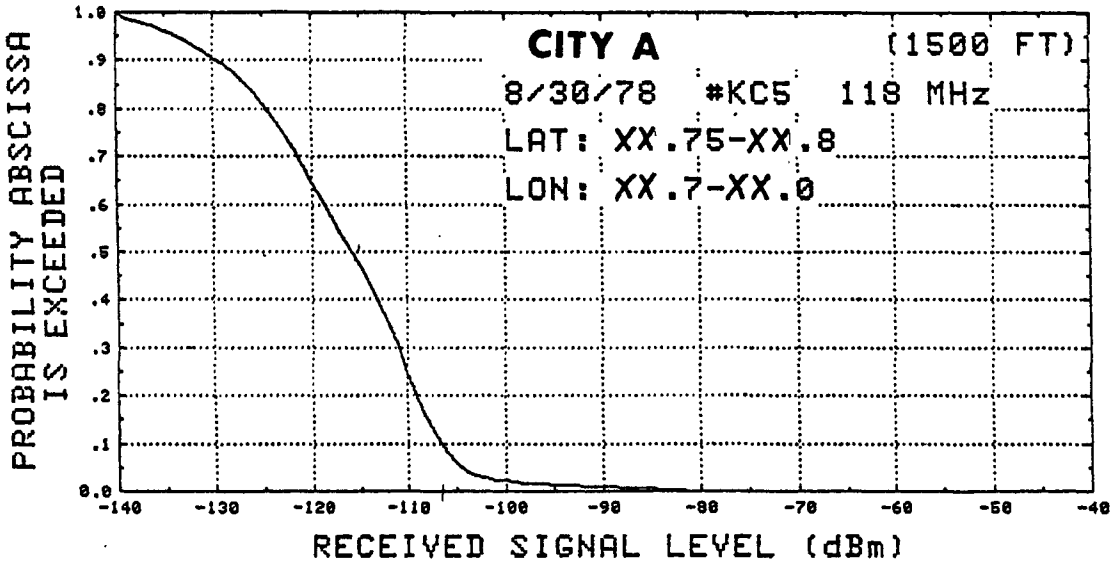
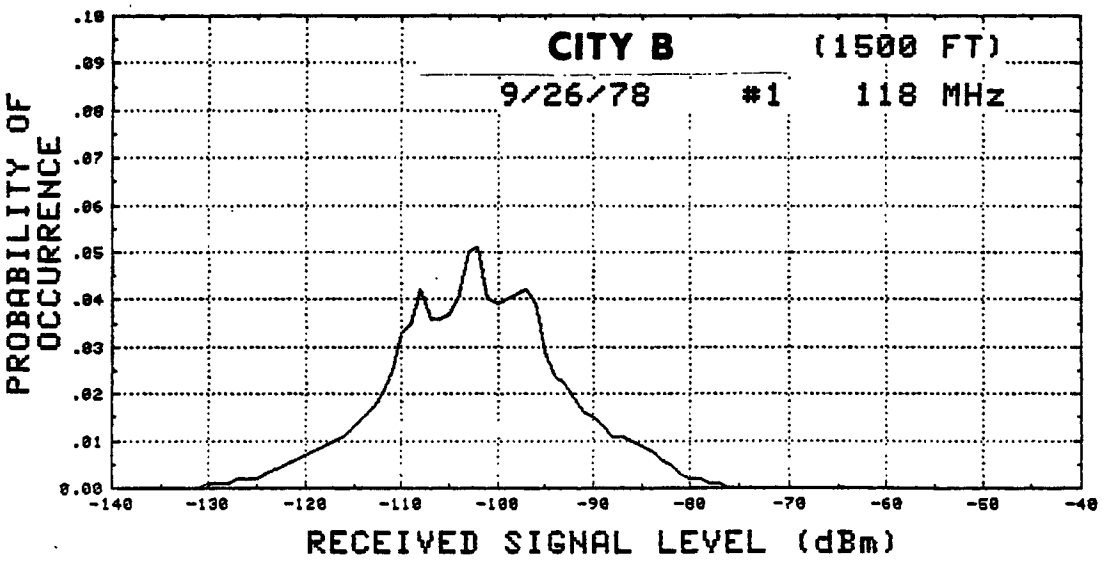


Figure F.10

Text: Section 2.2.3.5



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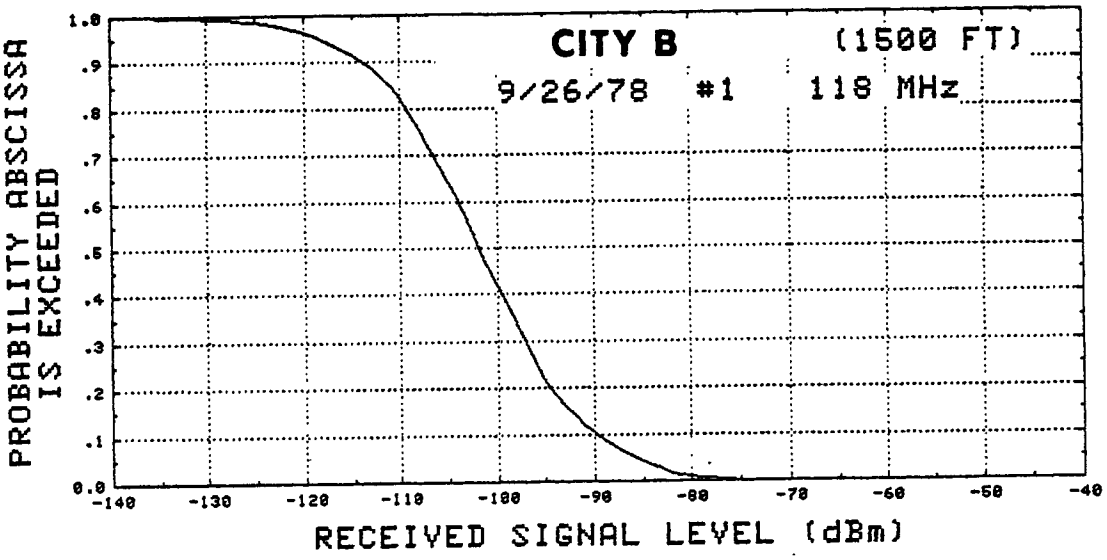
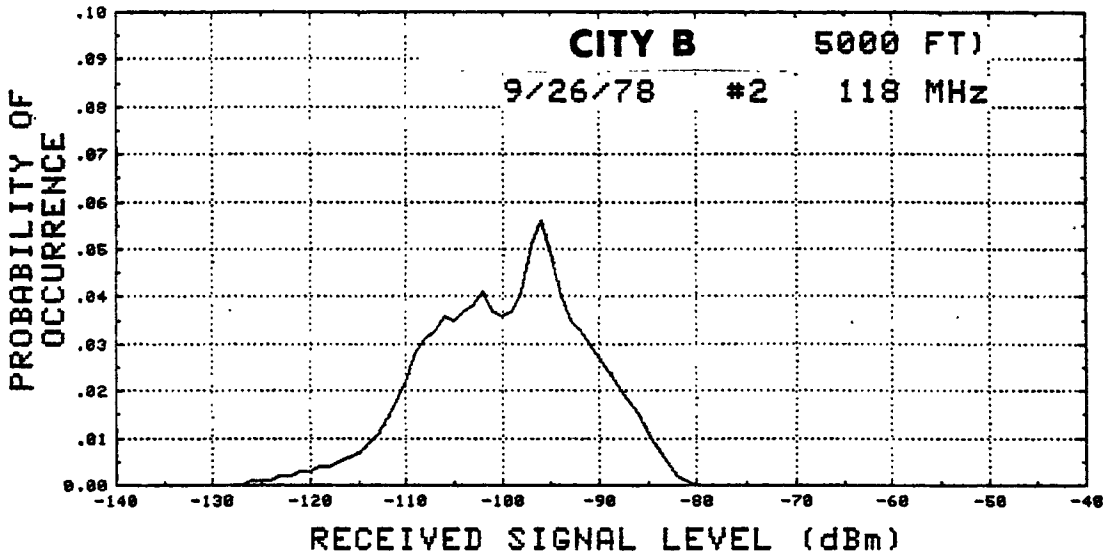


Figure F.12



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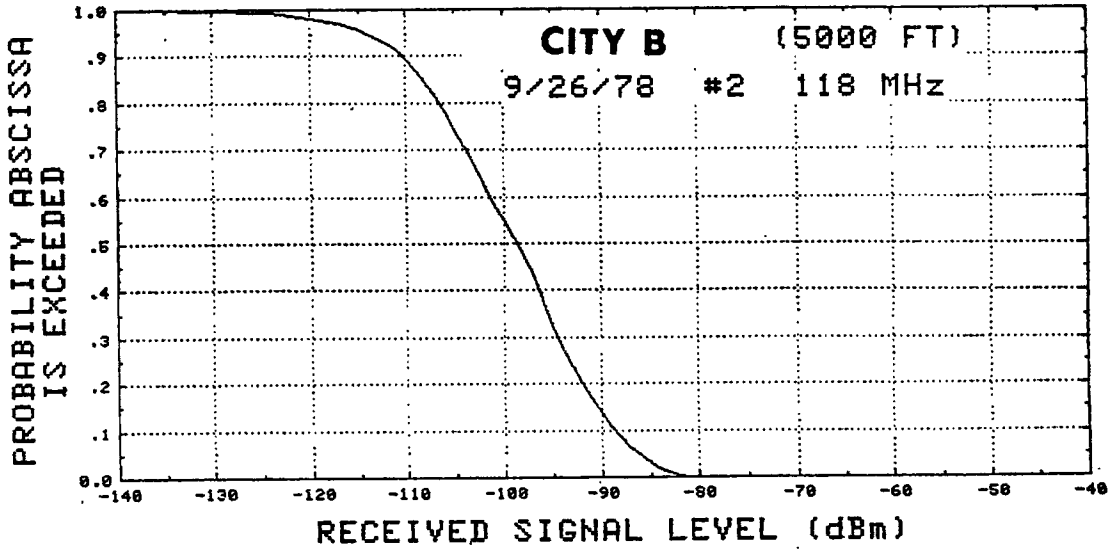
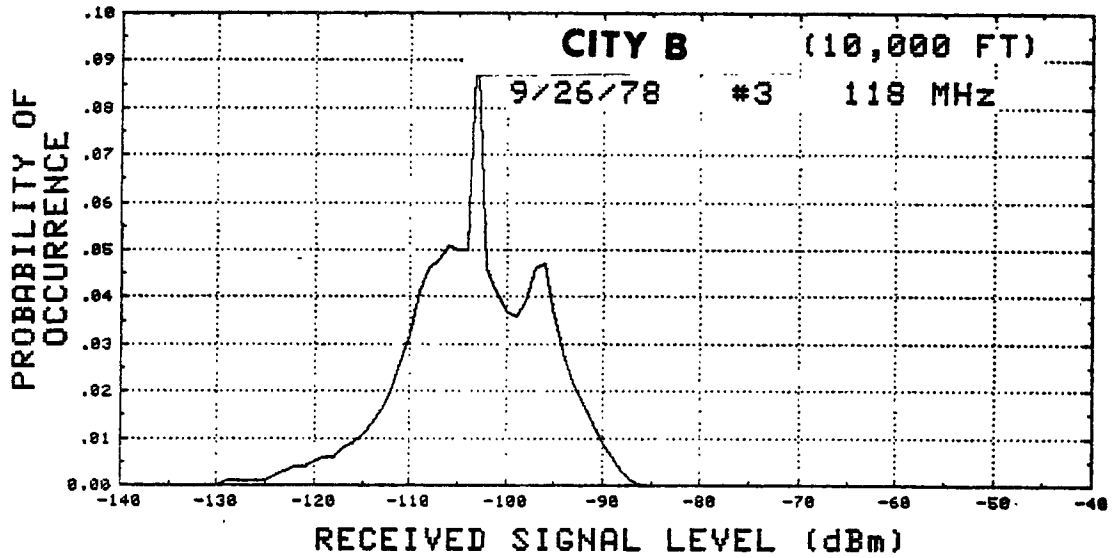


Figure F.14



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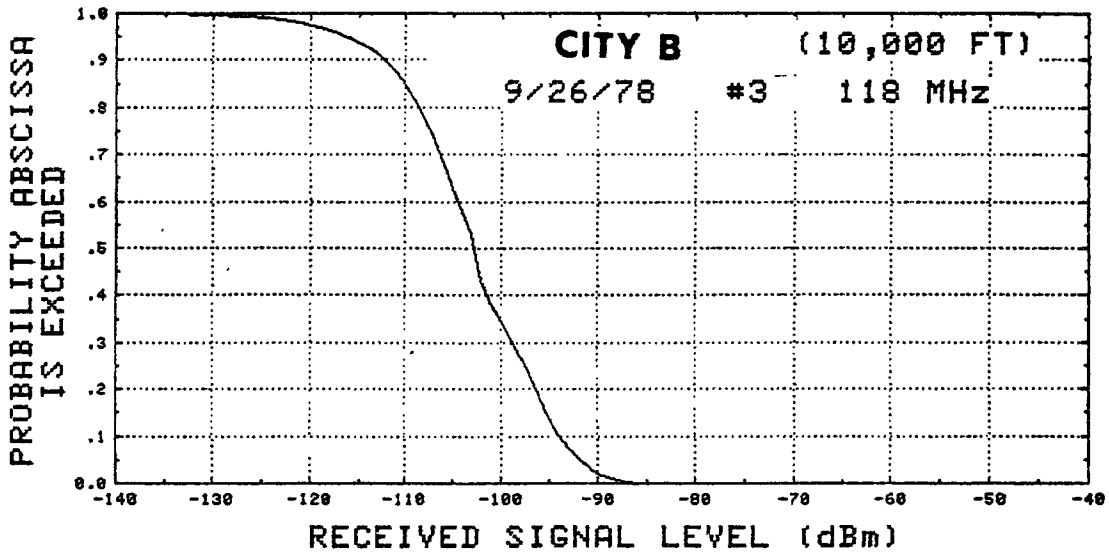


Figure F.16

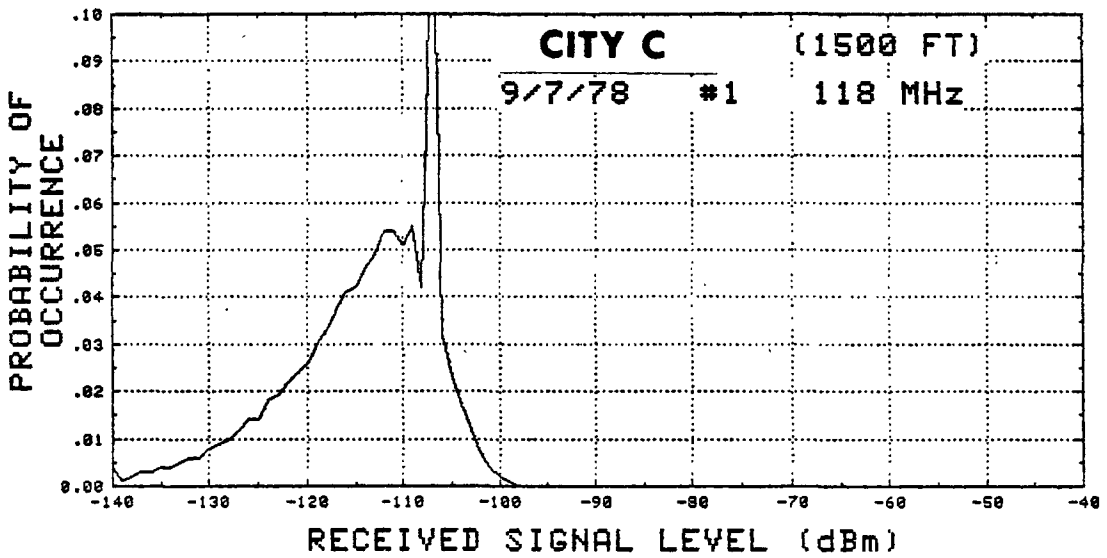
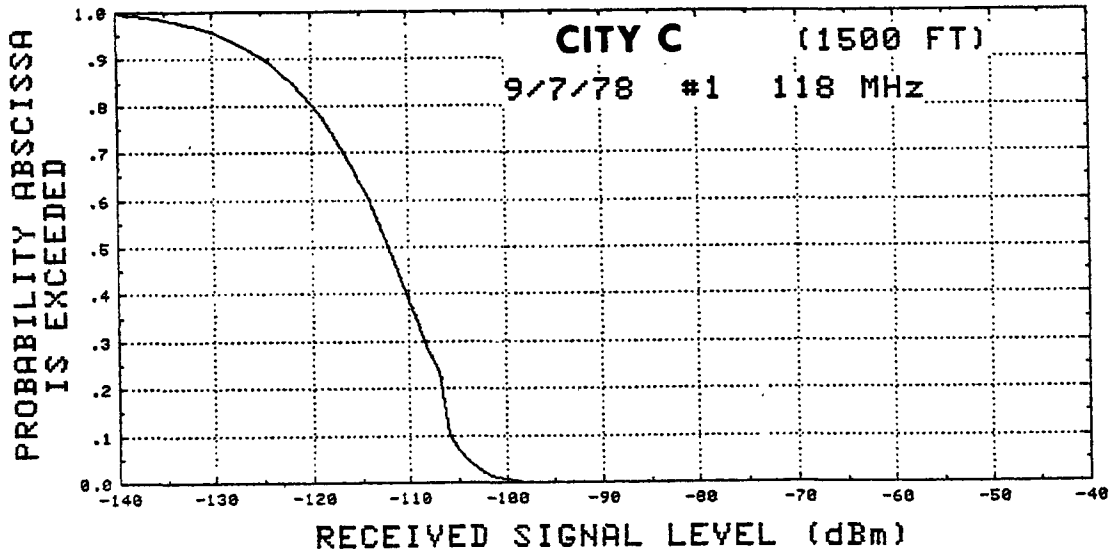


Figure F.17

Text: Section 2.2.3



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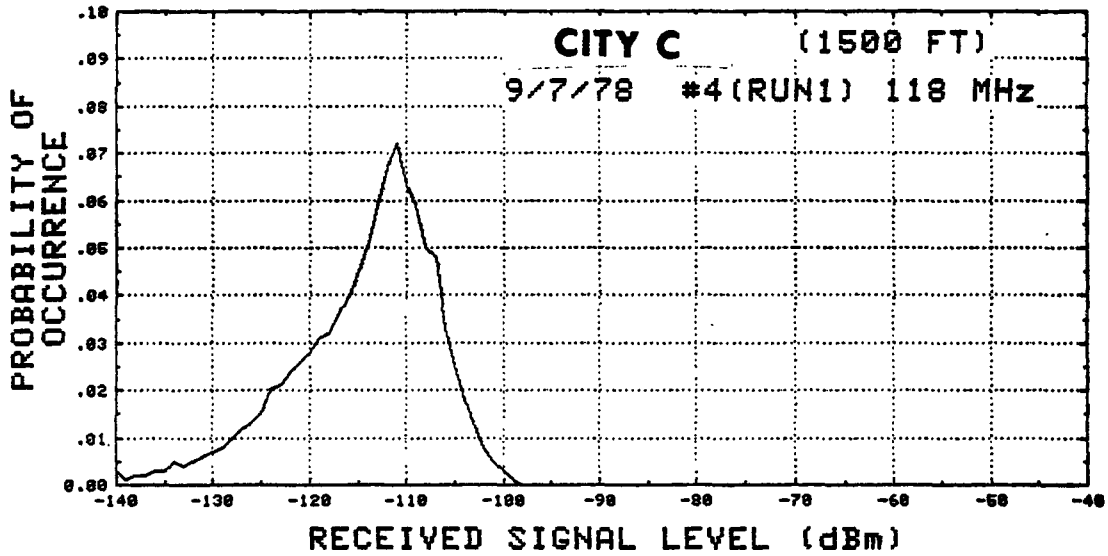

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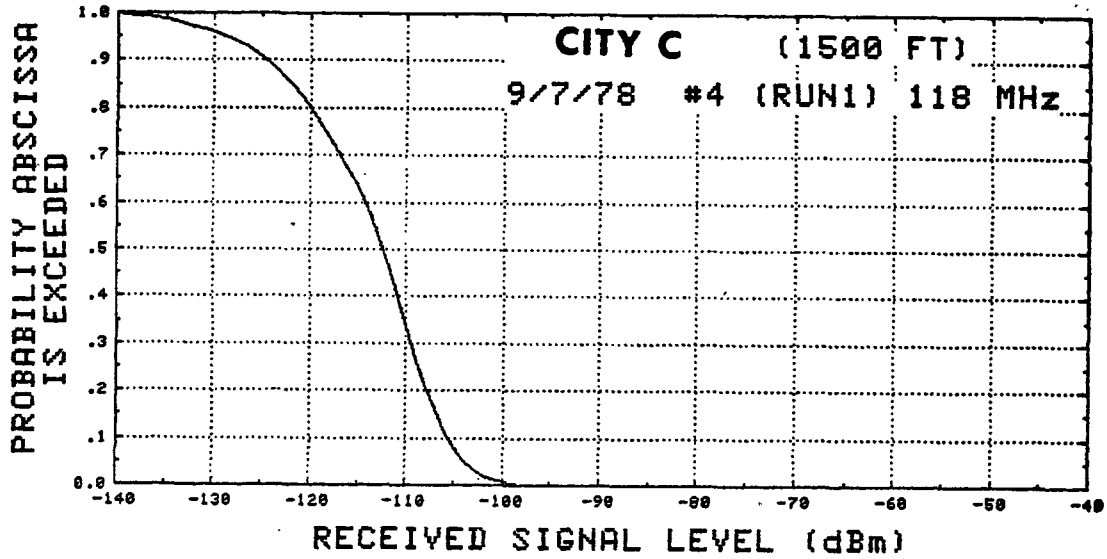
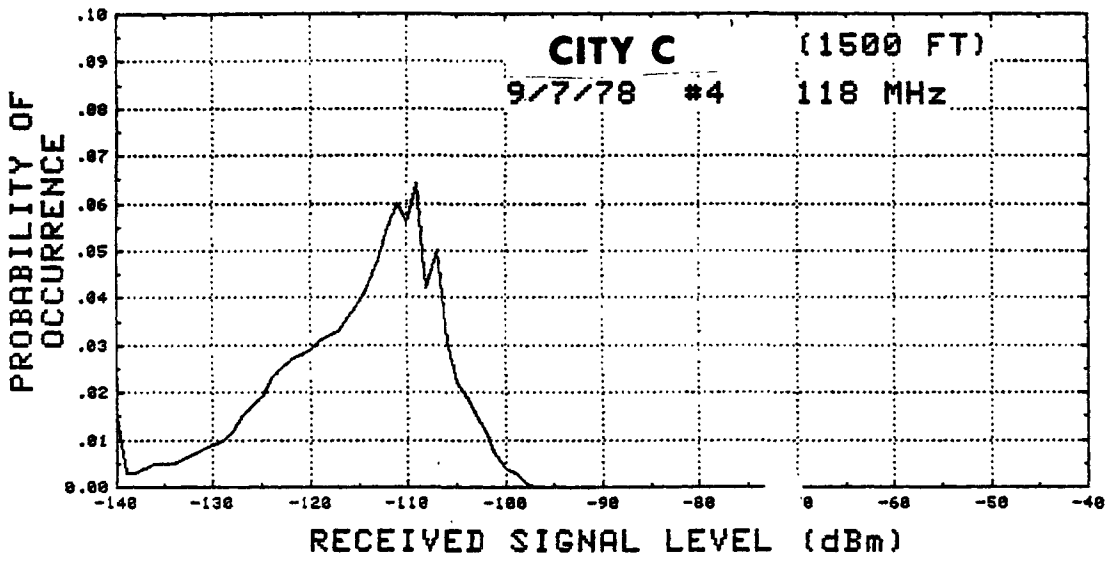


Figure F.20



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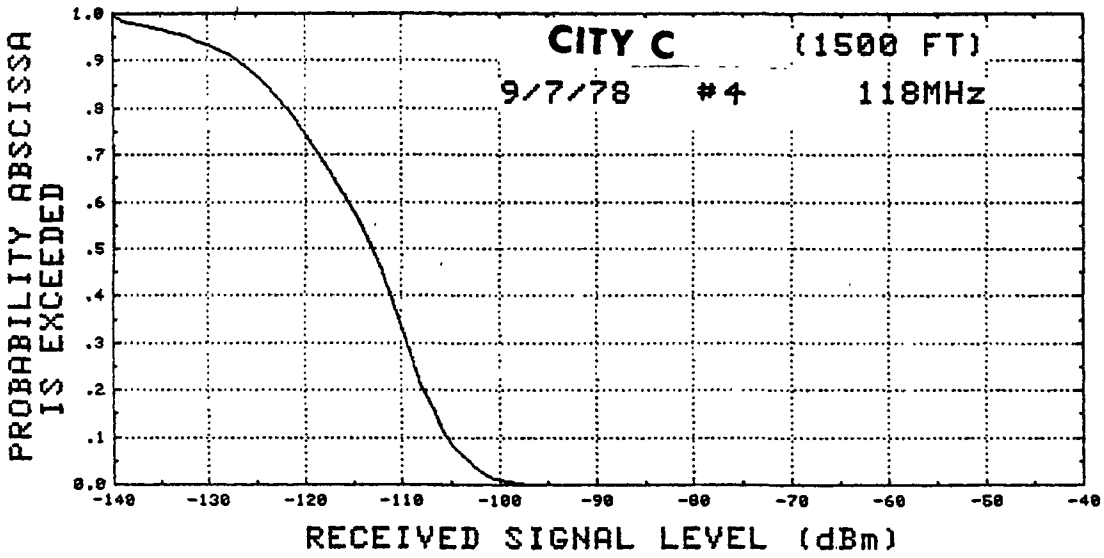

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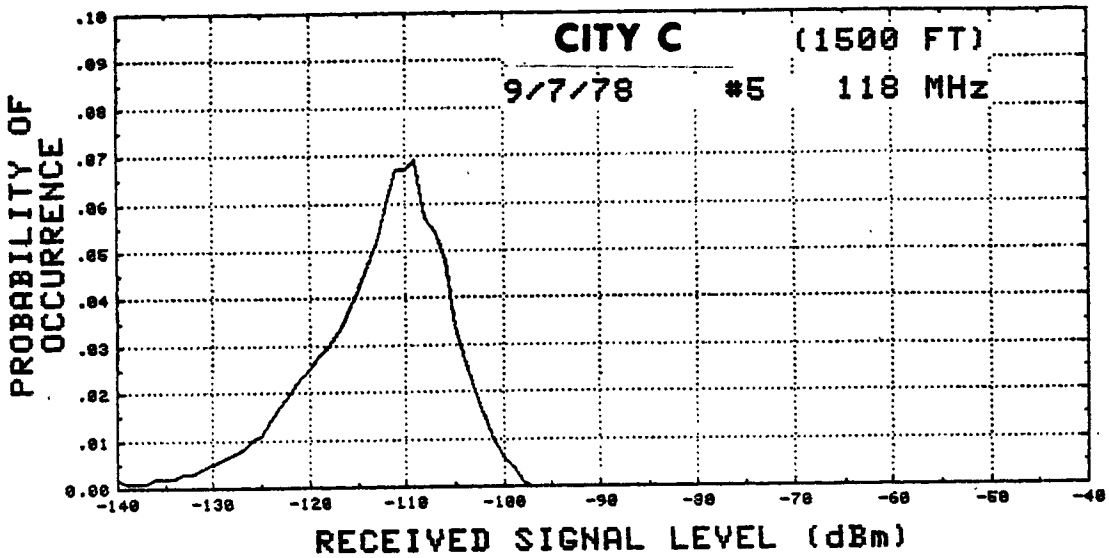

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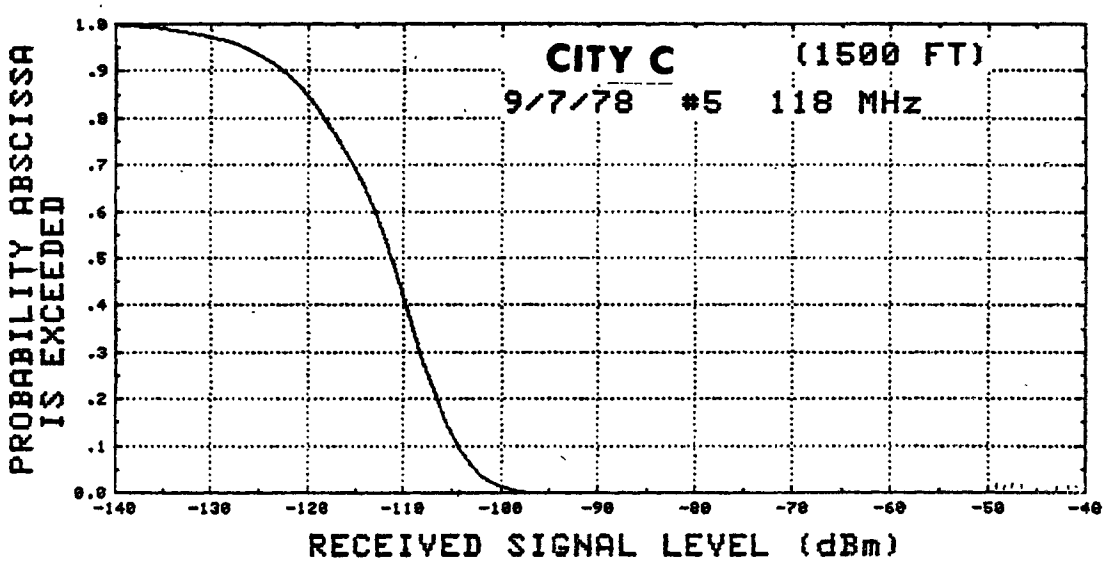

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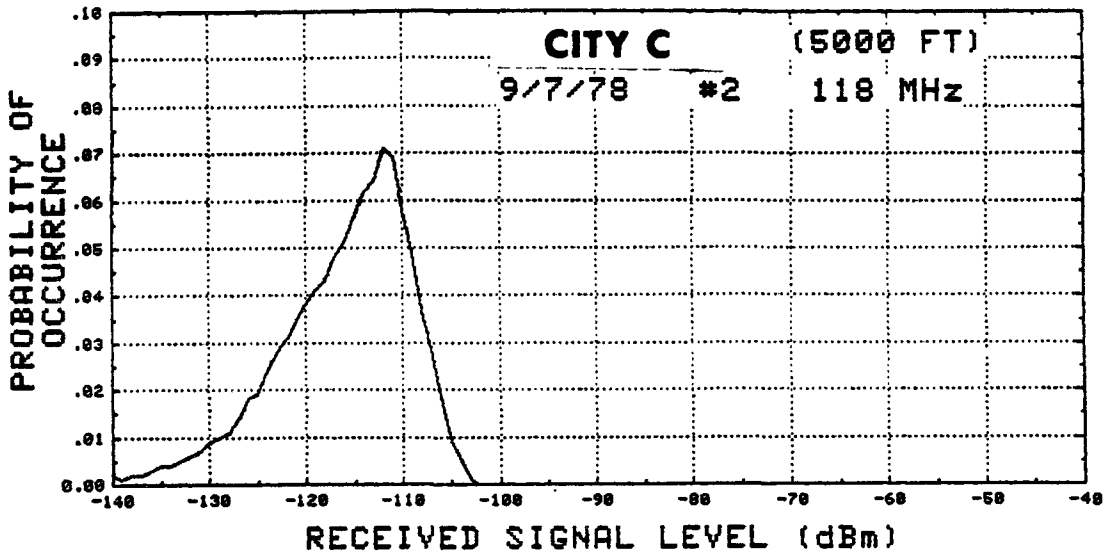
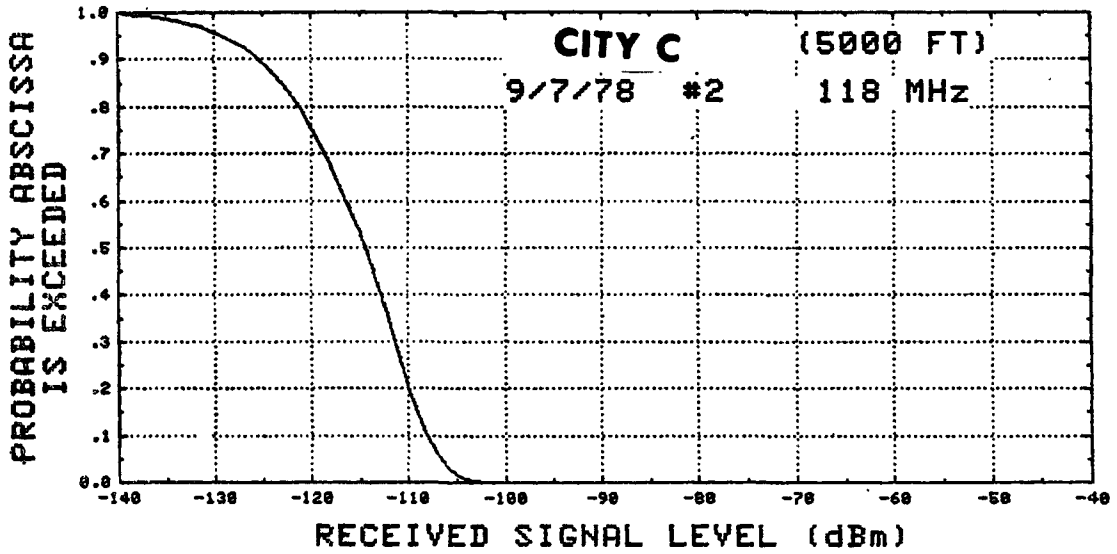


Figure F.25



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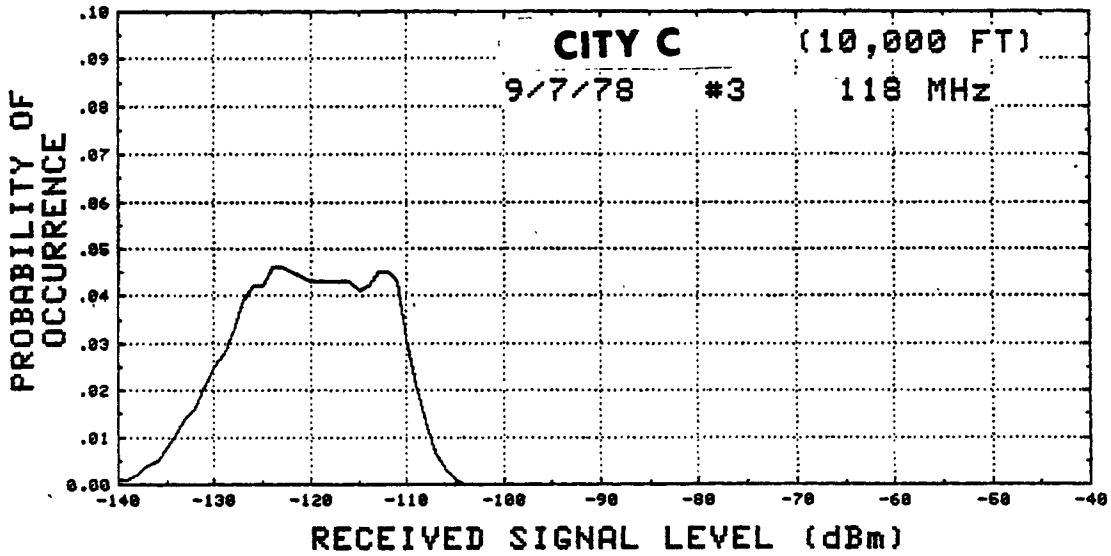

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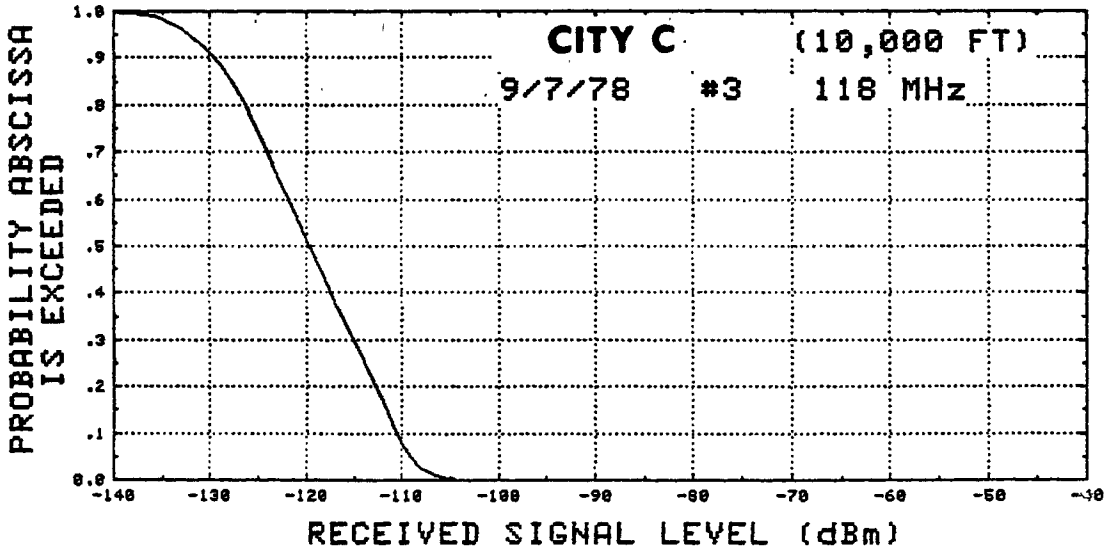


Figure F.28

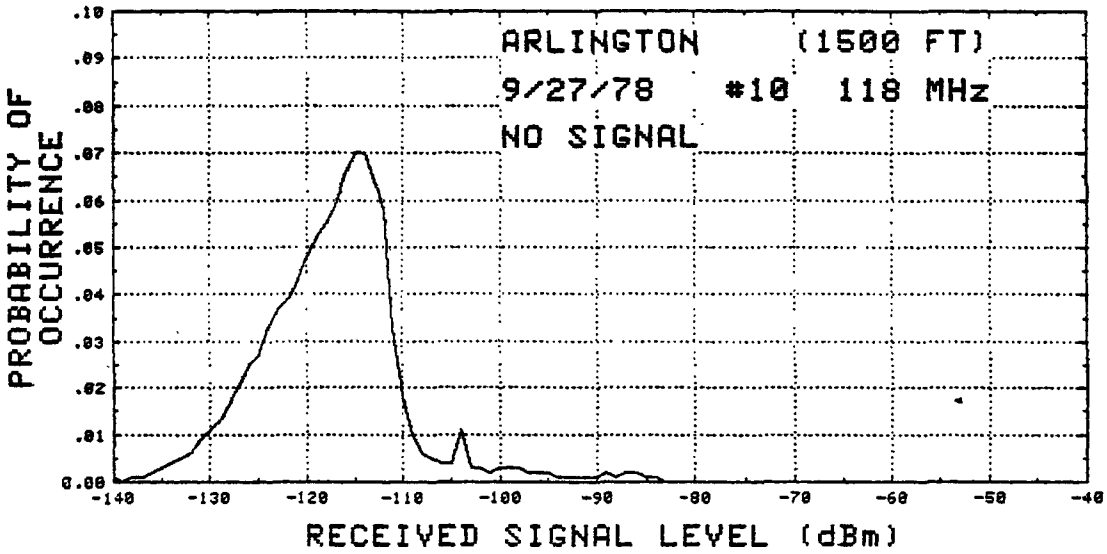
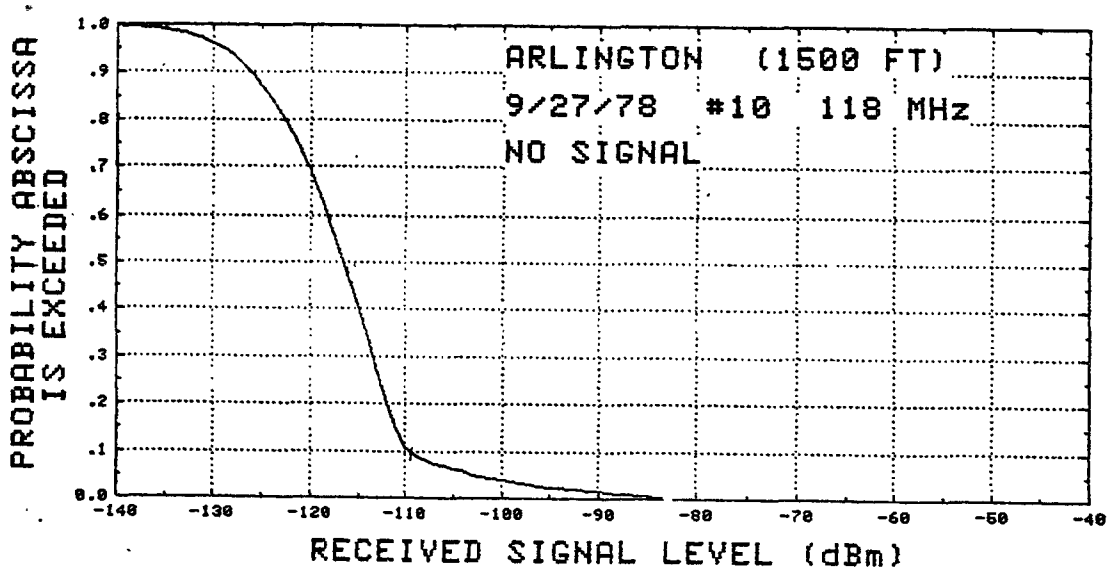


Figure F.29

Text: Section 2.5



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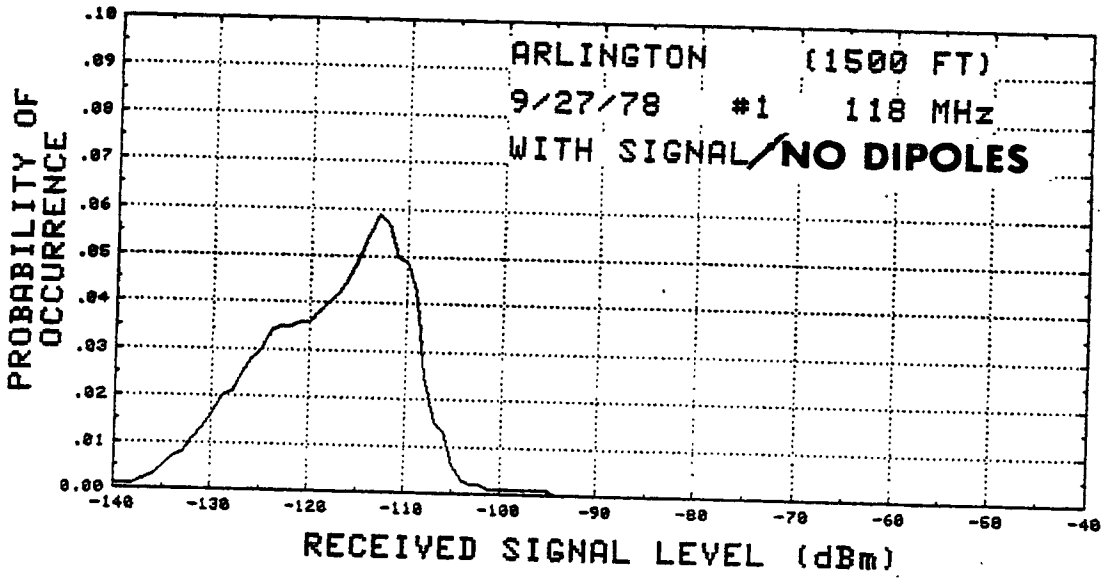

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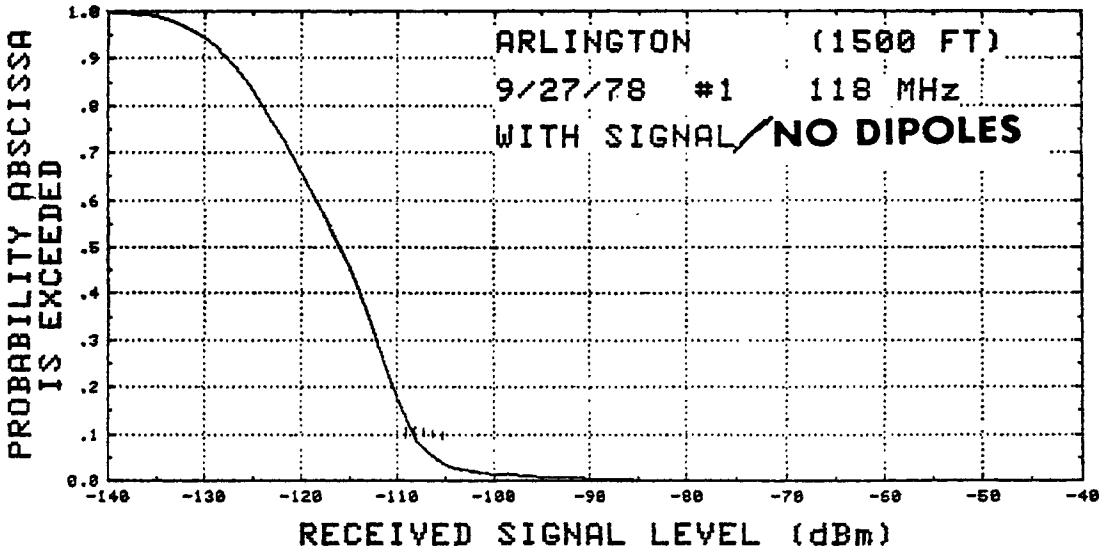

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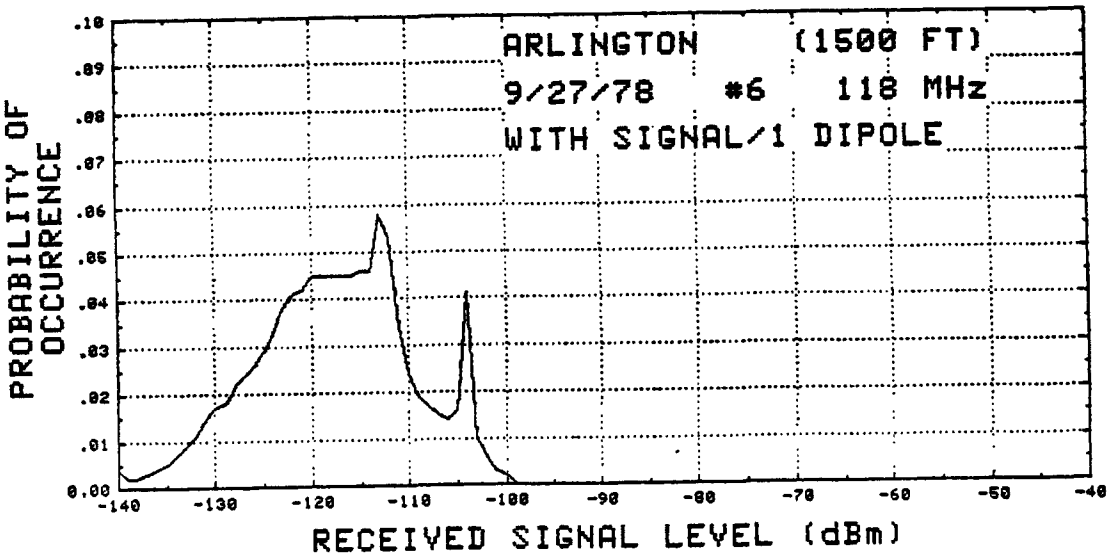

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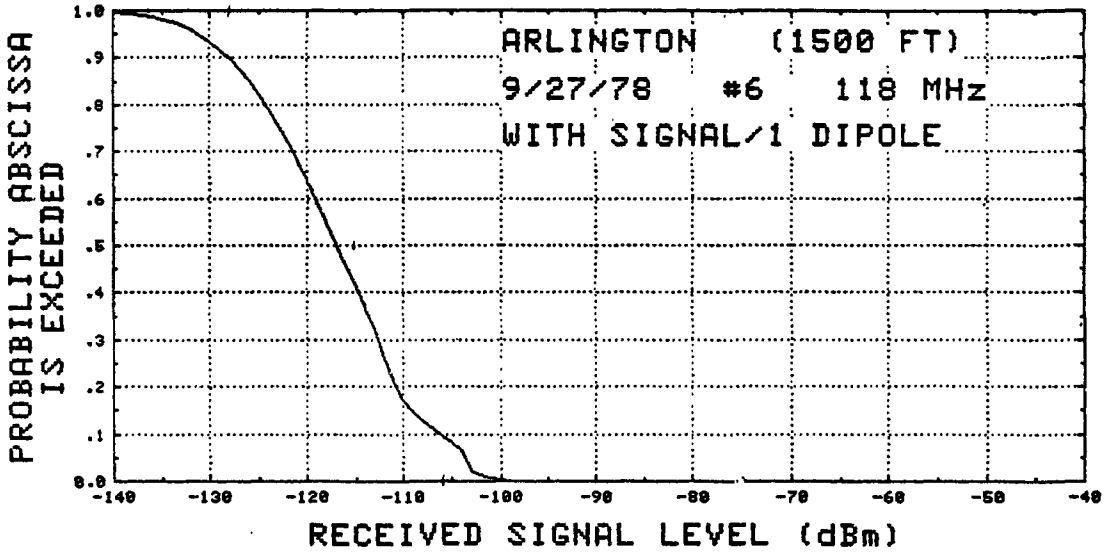

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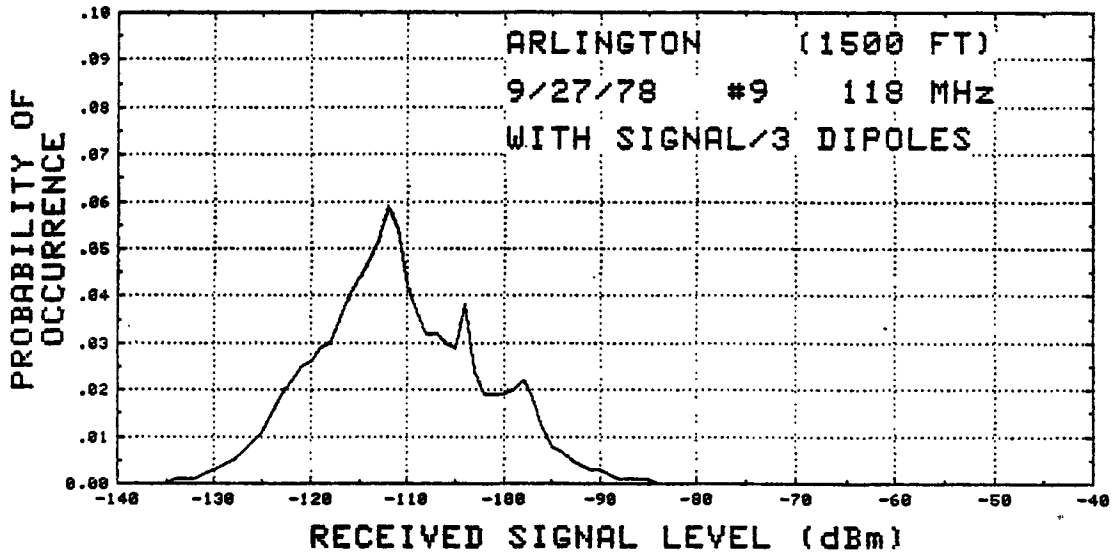

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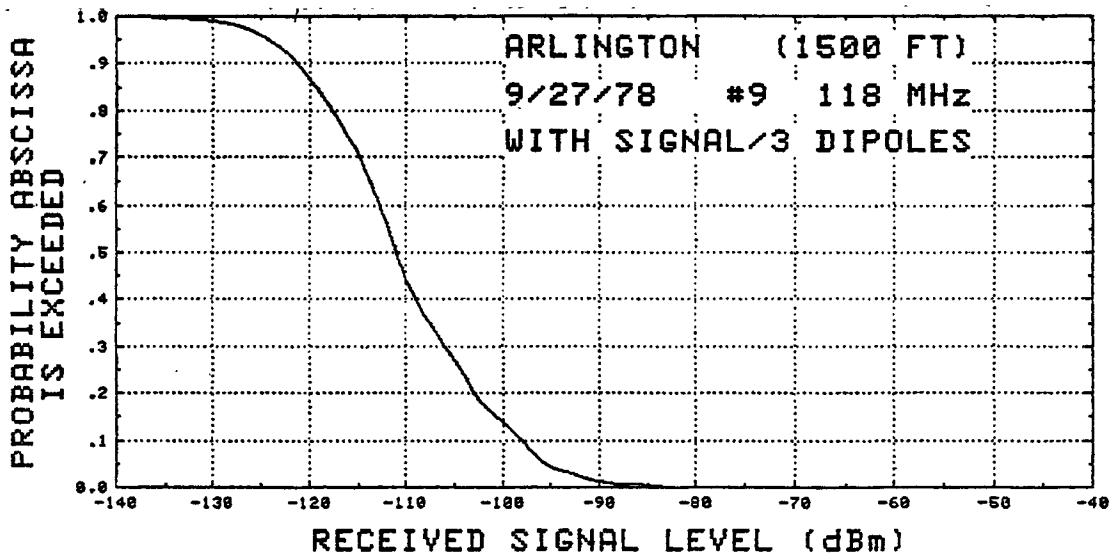

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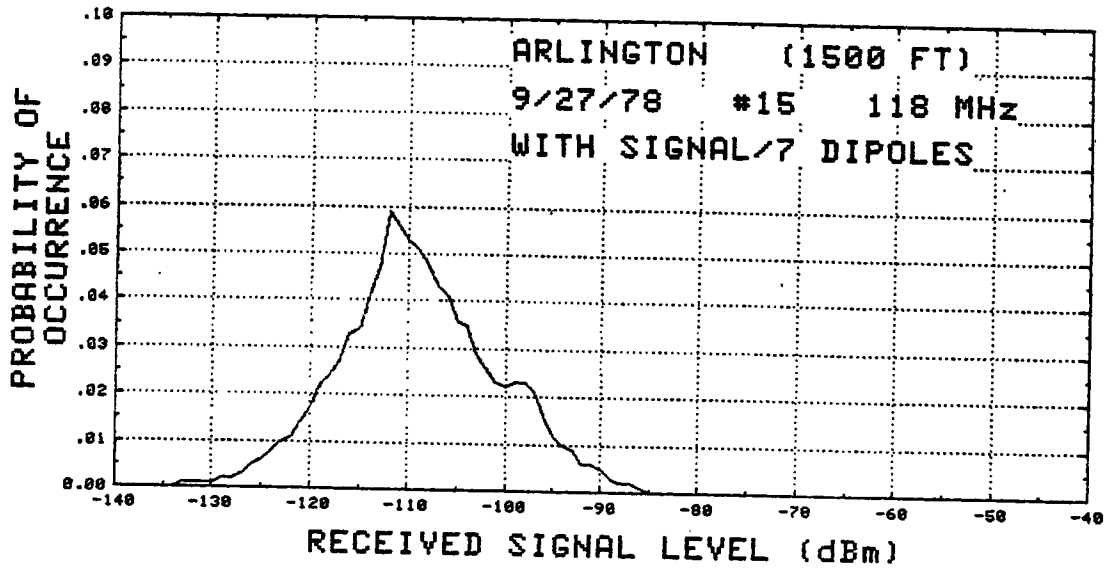

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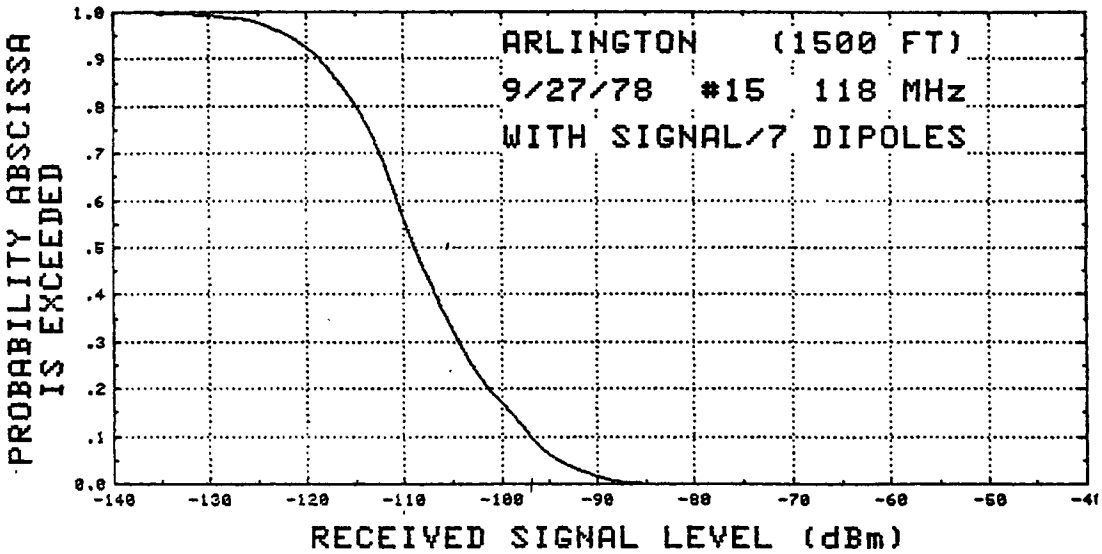

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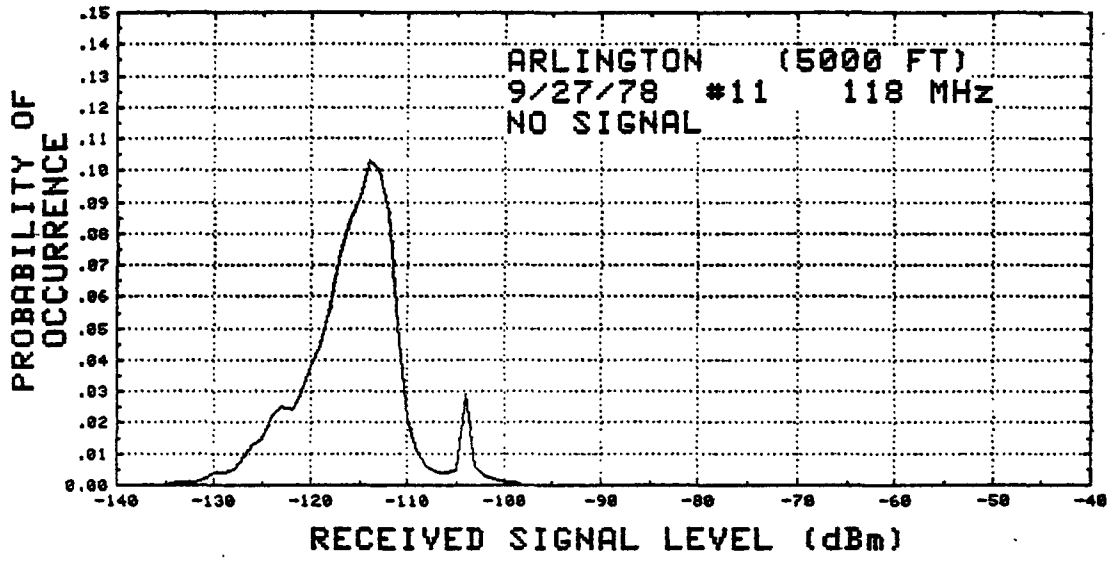

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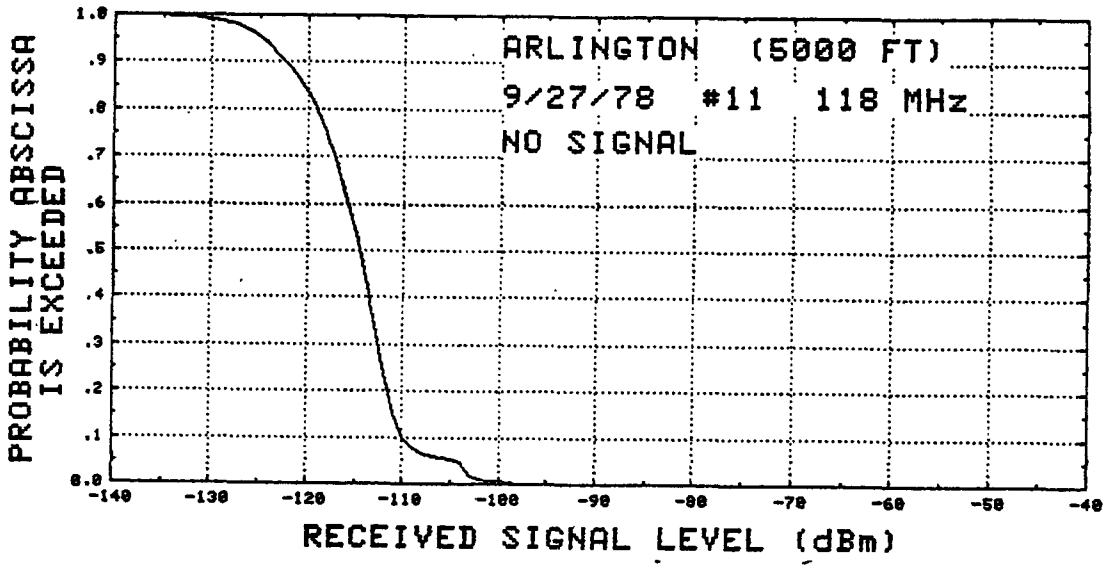

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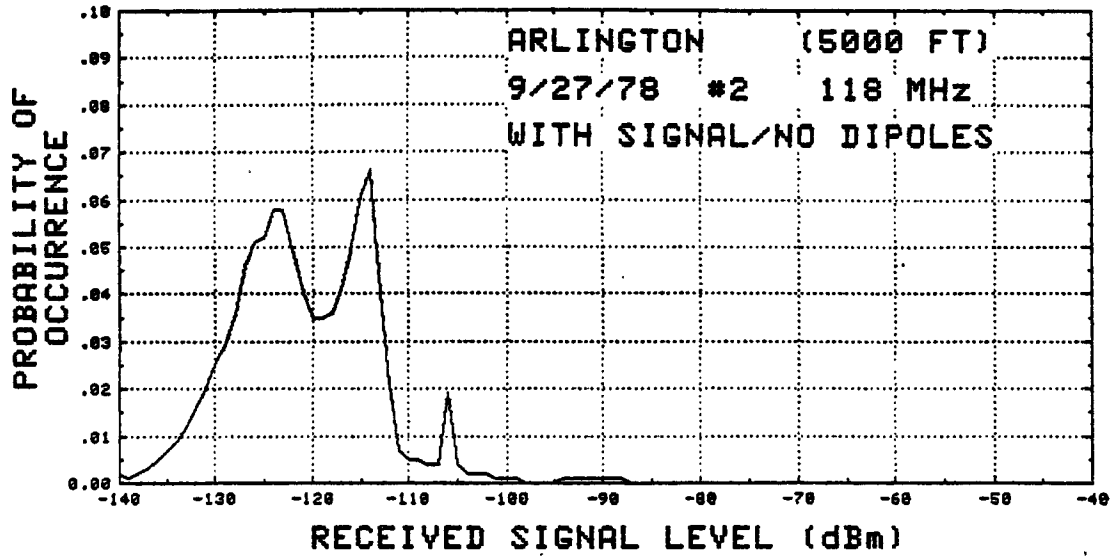

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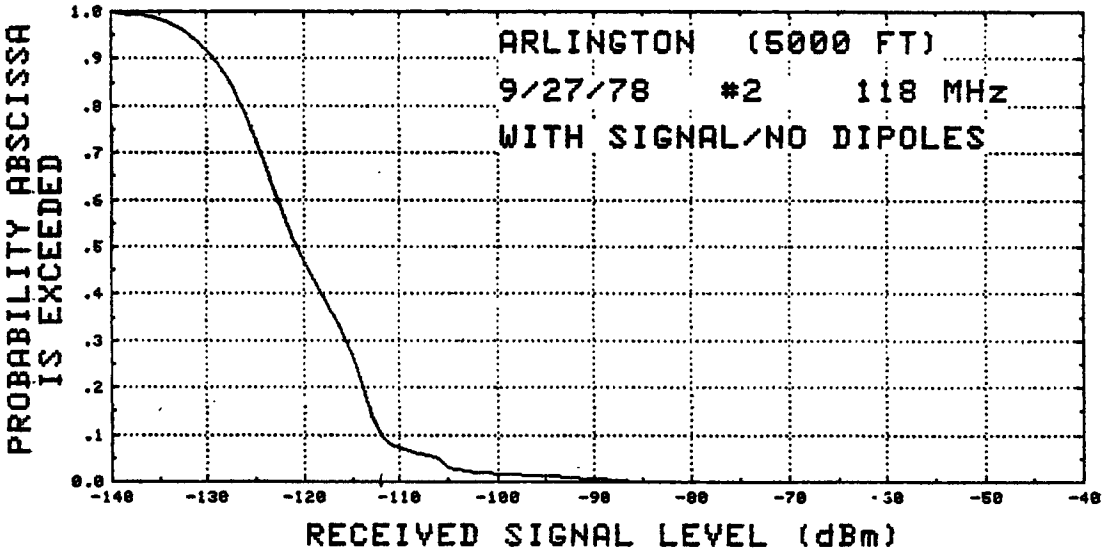

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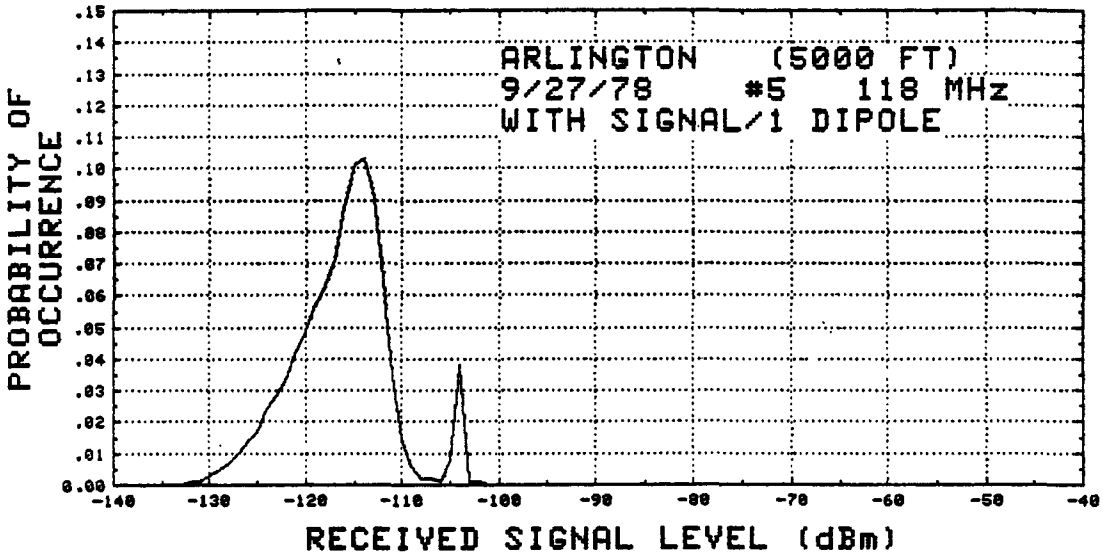

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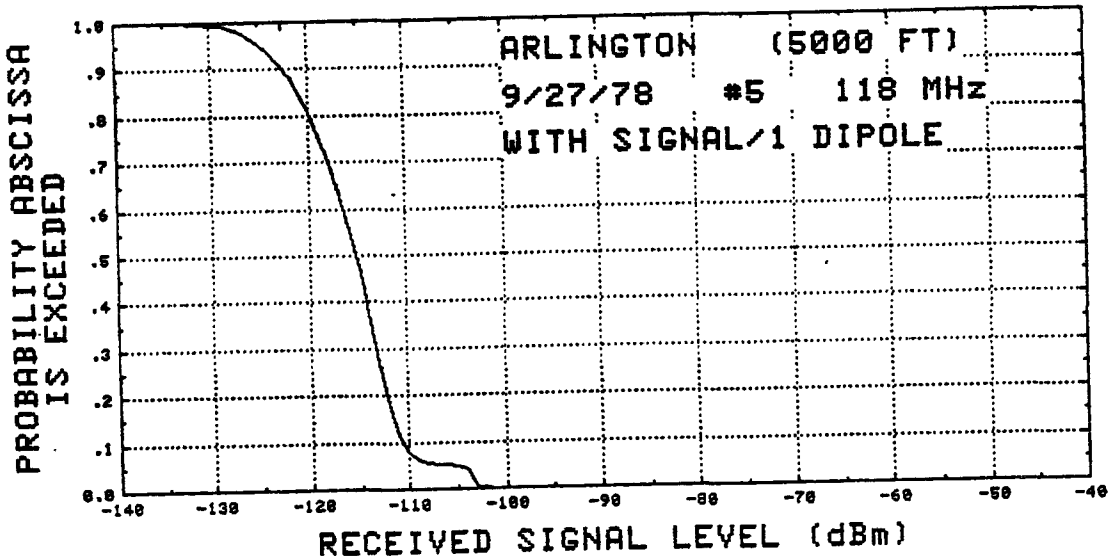

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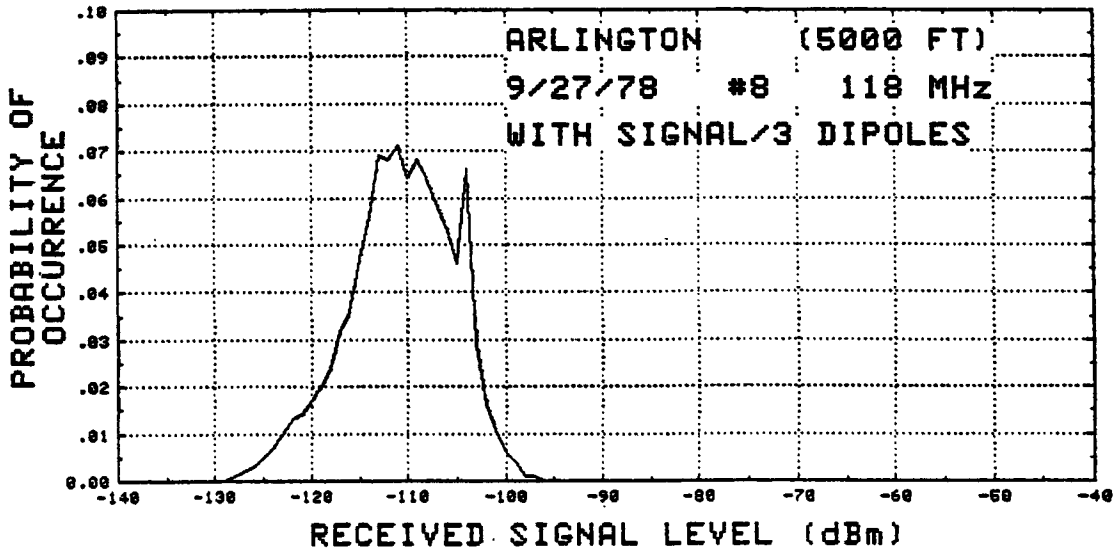

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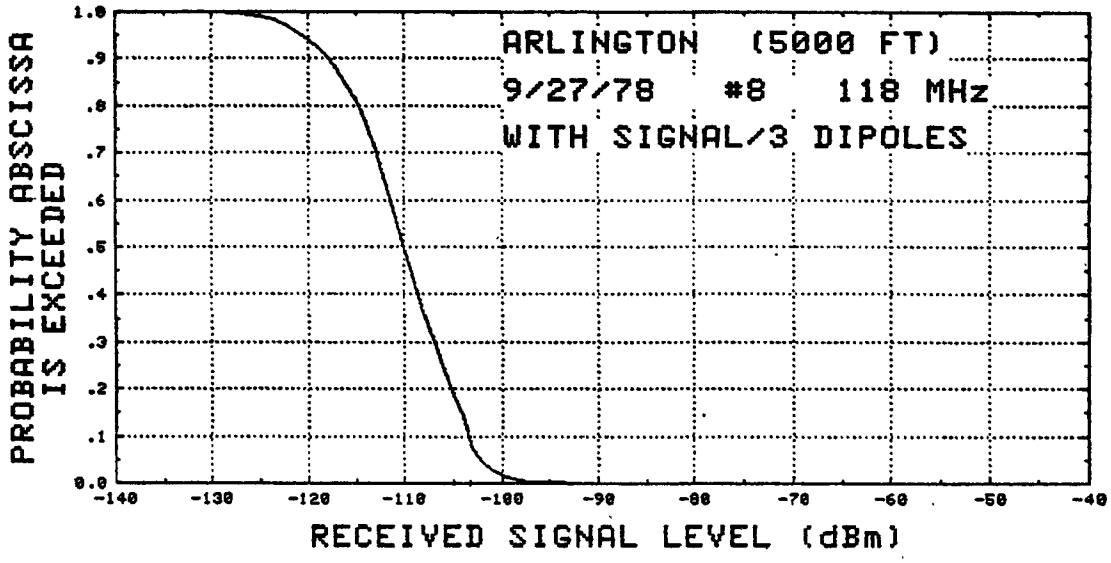

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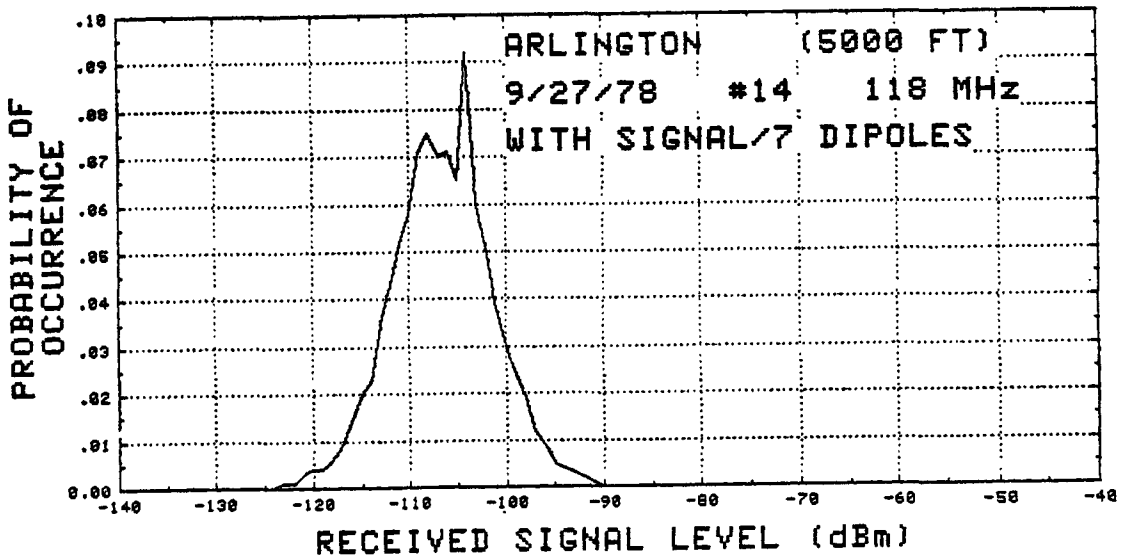

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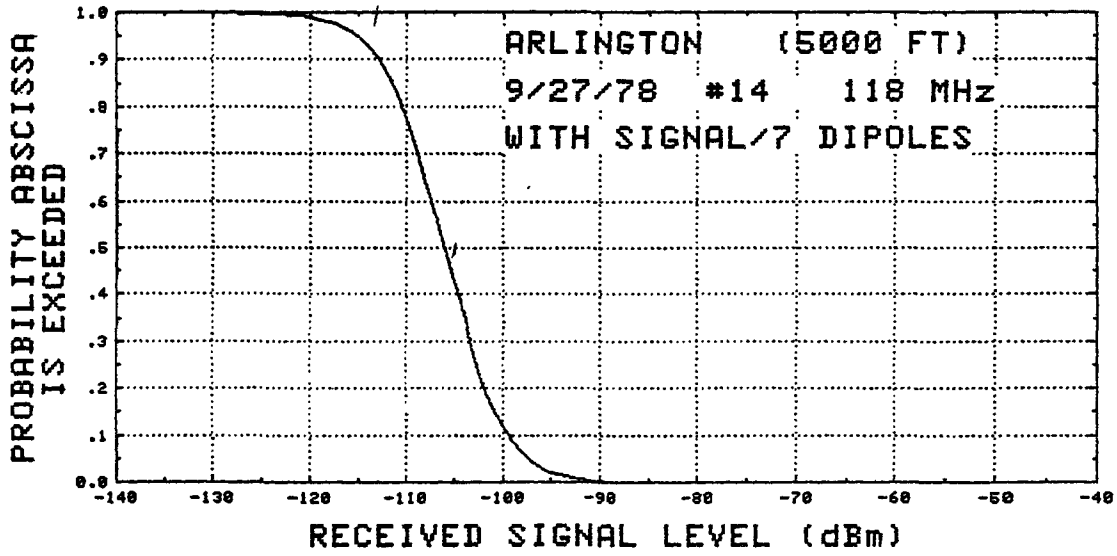

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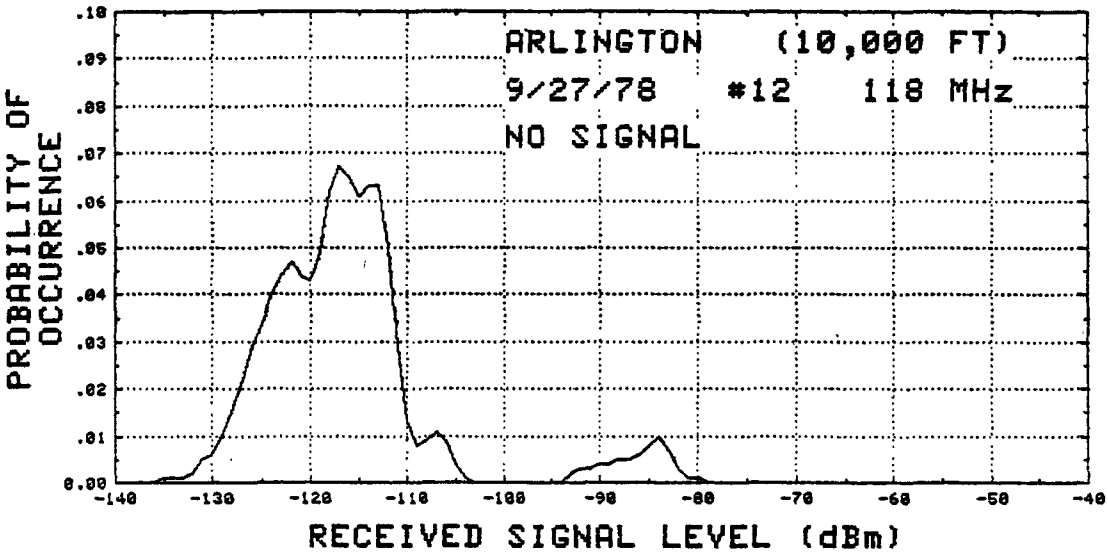

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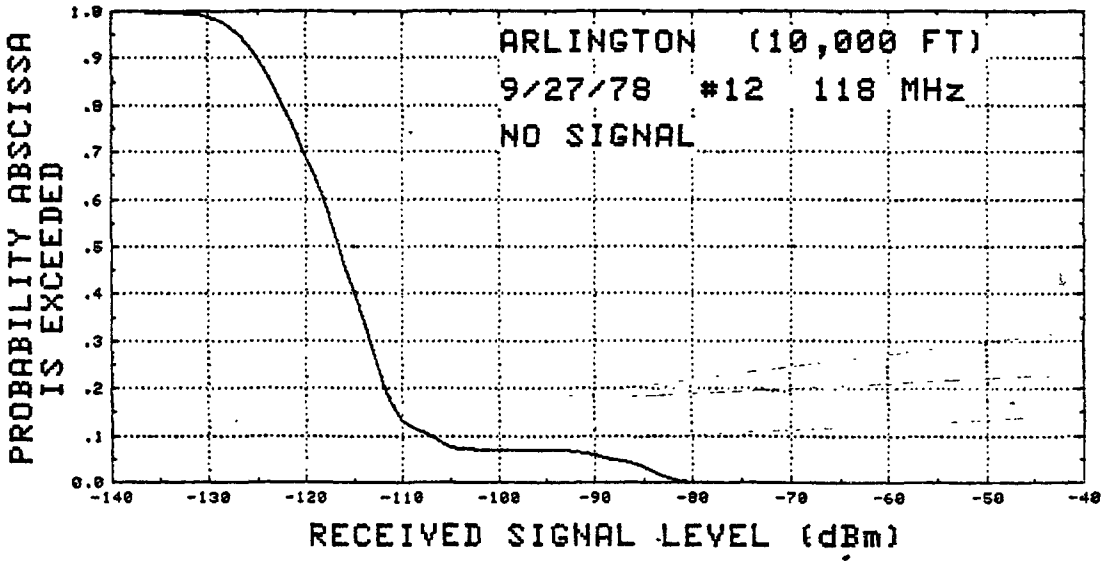

Figure F.50