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processing gain by method of jamming margin using Debugger Software Linktest

radio conditions : supply voltage 5v, at room temp. rx s/n = #2000, tx s/n = #2003, Rev AC2 with Harris HFA3860B (CCK modulation)

tester name : Jim Nahra / Jim Friedmann

Gp = S/N + Mj + Lsys; where S/N = 16.0 dB as per CCK modulation; Lsys = 2dB

input signal level = -60 dBm, jammer level = - 67.3 dBm, then Mj= - 7.3 dB for 10-5 BER

Gp = 16.0 dB + -7.3 dB + 2 dB = 10.7 dB (worst case point after lowest 20% discarded)

	jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (e rate un 1x10- pa
	MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	FAILI
161	2464.50	10.7	pass	206	2466.75	10.7	pass	251	2469.00	11.2	pass	296	2471.25	13.7	pass
162	2464.55	10.7	pass	207	2466.80	10.7	pass	252	2469.05	11.2	pass	297	2471.30	14.2	pass
163	2464.60	10.7	pass	208	2466.85	10.7	pass	253	2469.10	11.2	pass	298	2471.35	14.2	pass
164	2464.65	10.7	pass	209	2466.90	10.7	pass	254	2469.15	11.2	pass	299	2471.40	14.2	pass
165	2464.70	10.7	pass	210	2466.95	10.7	pass	255	2469.20	11.2	pass	300	2471.45	14.2	pass
166	2464.75	10.7	pass	211	2467.00	10.7	pass	256	2469.25	11.2	pass	301	2471.50	14.2	pass
167	2464.80	10.7	pass	212	2467.05	10.7	pass	257	2469.30	11.2	pass	302	2471.55	14.7	pass
168	2464.85	10.7	pass	213	2467.10	10.7	pass	258	2469.35	11.2	pass	303	2471.60	14.7	pass
169	2464.90	10.7	pass	214	2467.15	10.7	pass	259	2469.40	11.2	pass	304	2471.65	14.7	pass
170	2464.95	10.7	pass	215	2467.20	10.7	pass	260	2469.45	11.2	pass	305	2471.70	14.7	pass
171	2465.00	10.7	pass	216	2467.25	10.7	pass	261	2469.50	11.2	pass	306	2471.75	15.2	pass
172	2465.05	10.7	pass	217	2467.30	10.2	pass-disc	262	2469.55	11.2	pass	307	2471.80	15.2	pass
173	2465.10	10.7	pass	218	2467.35	10.2	pass-disc	263	2469.60	11.2	pass	308	2471.85	15.7	pass
174	2465.15	10.7	pass	219	2467.40	10.2	pass-disc	264	2469.65	11.2	pass	309	2471.90	15.7	pass
175	2465.20	10.7	pass	220	2467.45	9.2	Fail-discard	265	2469.70	11.2	pass	310	2471.95	15.7	pass
176	2465.25	10.7	pass	221	2467.50	9.2	Fail-discard	266	2469.75	11.2	pass	311	2472.00	16.2	pass
177	2465.30	10.7	pass	222	2467.55	9.2	Fail-discard	267	2469.80	11.2	pass	312	2472.05	16.2	pass
178	2465.35	10.7	pass	223	2467.60	9.2	Fail-discard	268	2469.85	11.2	pass	313	2472.10	16.2	pass
179	2465.40	10.7	pass	224	2467.65	9.2	Fail-discard	269	2469.90	11.2	pass	314	2472.15	16.7	pass
180	2465.45	10.7	pass	225	2467.70	9.2	Fail-discard	270	2469.95	11.2	pass	315	2472.20	16.7	pass
181	2465.50	10.7	pass	226	2467.75	9.2	Fail-discard	271	2470.00	11.2	pass	316	2472.25	16.7	pass
182	2465.55	10.7	pass	227	2467.80	9.2	Fail-discard	272	2470.05	11.2	pass	317	2472.30	16.7	pass
183	2465.60	10.7	pass	228	2467.85	9.7	Fail-discard	273	2470.10	11.7	pass	318	2472.35	16.7	pass
184	2465.65	10.7	pass	229	2467.90	9.7	Fail-discard	274	2470.15	11.7	pass	319	2472.40	17.2	pass
185	2465.70	10.7	pass	230	2467.95	9.7	Fail-discard	275	2470.20	11.7	pass	320	2472.45	17.2	pass
186	2465.75	10.7	pass	231	2468.00	9.7	Fail-discard	276	2470.25	11.7	pass	321	2472.50	17.7	pass
187	2465.80	10.7	pass	232	2468.05	10.2	pass-disc	277	2470.30	11.7	pass	322	2472.55	17.7	pass
188	2465.85	10.7	pass	233	2468.10	10.2	pass-disc	278	2470.35	11.7	pass	323	2472.60	17.7	pass
189	2465.90	10.7	pass	234	2468.15	10.2	pass-disc	279	2470.40	11.7	pass	324	2472.65	18.2	pass
190	2465.95	10.7	pass	235	2468.20	10.2	pass-disc	280	2470.45	12.2	pass	325	2472.70	18.7	pass
191	2466.00	10.7	pass	236	2468.25	10.2	pass-disc	281	2470.50	12.2	pass	326	2472.75	18.7	pass
192	2466.05	10.7	pass	237	2468.30	10.2	pass-disc	282	2470.55	12.2	pass	327	2472.80	18.7	pass
193	2466.10	10.7	pass	238	2468.35	10.2	pass-disc	283	2470.60	12.7	pass	328	2472.85	19.2	pass
194	2466.15	10.7	pass	239	2468.40	10.2	pass-disc	284	2470.65	13.2	pass	329	2472.90	19.2	pass
195	2466.20	10.7	pass	240	2468.45	10.2	pass-disc	285	2470.70	13.2	pass	330	2472.95	19.7	pass
196	2466.25	10.7	pass	241	2468.50	10.2	pass-disc	286	2470.75	13.2	pass	331	2473.00	19.7	pass
197	2466.30	10.7	pass	242	2468.55	10.2	pass-disc	287	2470.80	13.2	pass	332	2473.05	20.2	pass
198	2466.35	10.7	pass	243	2468.60	10.2	pass-disc	288	2470.85	13.2	pass	333	2473.10	20.2	pass
199	2466.40	10.7	pass	244	2468.65	10.2	pass-disc	289	2470.90	13.2	pass	334	2473.15	20.2	pass
200	2466.45	10.7	pass	245	2468.70	10.2	pass-disc	290	2470.95	13.2	pass	335	2473.20	20.2	pass
201	2466.50	10.7	pass	246	2468.75	10.7	pass	291	2471.00	13.2	pass	336	2473.25	20.7	pass
202	2466.55	10.7	pass	247	2468.80	10.7	pass	292	2471.05	13.7	pass	337	2473.30	20.7	pass
203	2466.60	10.7	pass	248	2468.85	10.7	pass	293	2471.10	13.7	pass	338	2473.35	21.7	pass
204	2466.65	10.7	pass	249	2468.90	10.7	pass	294	2471.15	13.7	pass	339	2473.40	21.7	pass
205	2466.70	10.7	pass	250	2468.95	11.2	pass	295	2471.20	13.7	pass	340	2473.45	22.2	pass

drop 20% = 340 x 20% = 68 ; therefore can drop 68 loweset pts, next lowest pt is 10.7 dB, therefore unit passes proc gain test

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processing gain by method of jamming margin using Debugger Software Linktest

radio conditions : supply voltage 5v, at room temp, rx s/n = #2000, tx s/n = #2003, Rev AC2 with Harris HFA3860B (CCK modulation)

tester name : Jim Nahra / Jim Friedmann

test date : 11/12/98 radio carrier freq= 2465

Gp = S/N + Mj + Lsys; where S/N = 16.0 dB as per CCK modulation; Lsys = 2dB

input signal level = -60 dBm, jammer level = - 67.3 dBm, then Mj= - 7.3 dB for 10-5 BER

Gp = 16.0 dB + -7.3 dB + 2 dB = 10.7 dB (worst case point after lowest 20% discarded)

	jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)
	MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE
1	2456.50	19.7	pass	41	2458.50	13.7	pass	81	2460.50	11.7	pass	121	2462.50	10.7	pass
2	2456.55	19.7	pass	42	2458.55	13.7	pass	82	2460.55	11.7	pass	122	2462.55	10.7	pass
3	2456.60	19.7	pass	43	2458.60	13.7	pass	83	2460.60	11.2	pass	123	2462.60	10.7	pass
4	2456.65	19.2	pass	44	2458.65	13.7	pass	84	2460.65	11.2	pass	124	2462.65	10.7	pass
5	2456.70	19.2	pass	45	2458.70	13.7	pass	85	2460.70	11.2	pass	125	2462.70	10.7	pass
6	2456.75	19.2	pass	46	2458.75	13.2	pass	86	2460.75	11.2	pass	126	2462.75	10.7	pass
7	2456.80	19.2	pass	47	2458.80	13.2	pass	87	2460.80	11.2	pass	127	2462.80	10.7	pass
8	2456.85	19.2	pass	48	2458.85	13.2	pass	88	2460.85	11.2	pass	128	2462.85	10.7	pass
9	2456.90	18.7	pass	49	2458.90	13.2	pass	89	2460.90	11.2	pass	129	2462.90	10.7	pass
10	2456.95	18.7	pass	50	2458.95	13.2	pass	90	2460.95	11.2	pass	130	2462.95	10.7	pass
11	2457.00	18.7	pass	51	2459.00	13.2	pass	91	2461.00	11.2	pass	131	2463.00	10.7	pass
12	2457.05	18.7	pass	52	2459.05	12.7	pass	92	2461.05	11.2	pass	132	2463.05	10.7	pass
13	2457.10	18.7	pass	53	2459.10	12.7	pass	93	2461.10	11.2	pass	133	2463.10	10.7	pass
14	2457.15	18.7	pass	54	2459.15	12.7	pass	94	2461.15	11.2	pass	134	2463.15	10.7	pass
15	2457.20	18.2	pass	55	2459.20	12.7	pass	95	2461.20	11.2	pass	135	2463.20	10.7	pass
16	2457.25	18.2	pass	56	2459.25	12.7	pass	96	2461.25	11.2	pass	136	2463.25	10.7	pass
17	2457.30	18.2	pass	57	2459.30	12.7	pass	97	2461.30	11.2	pass	137	2463.30	10.7	pass
18	2457.35	17.7	pass	58	2459.35	12.7	pass	98	2461.35	11.2	pass	138	2463.35	10.7	pass
19	2457.40	17.2	pass	59	2459.40	12.2	pass	99	2461.40	11.2	pass	139	2463.40	10.7	pass
20	2457.45	17.2	pass	60	2459.45	12.2	pass	100	2461.45	11.2	pass	140	2463.45	10.7	pass
21	2457.50	17.2	pass	61	2459.50	11.7	pass	101	2461.50	11.2	pass	141	2463.50	10.7	pass
22	2457.55	17.2	pass	62	2459.55	11.7	pass	102	2461.55	11.2	pass	142	2463.55	10.7	pass
23	2457.60	16.7	pass	63	2459.60	11.7	pass	103	2461.60	11.2	pass	143	2463.60	10.7	pass
24	2457.65	16.7	pass	64	2459.65	11.7	pass	104	2461.65	11.2	pass	144	2463.65	10.7	pass
25	2457.70	16.2	pass	65	2459.70	11.7	pass	105	2461.70	11.2	pass	145	2463.70	10.7	pass
26	2457.75	15.7	pass	66	2459.75	11.7	pass	106	2461.75	11.2	pass	146	2463.75	10.7	pass
27	2457.80	15.7	pass	67	2459.80	11.7	pass	107	2461.80	11.2	pass	147	2463.80	10.7	pass
28	2457.85	15.7	pass	68	2459.85	11.7	pass	108	2461.85	11.2	pass	148	2463.85	10.7	pass
29	2457.90	15.2	pass	69	2459.90	11.7	pass	109	2461.90	11.2	pass	149	2463.90	10.7	pass
30	2457.95	14.7	pass	70	2459.95	11.7	pass	110	2461.95	11.2	pass	150	2463.95	10.7	pass
31	2458.00	14.7	pass	71	2460.00	11.7	pass	111	2462.00	11.2	pass	151	2464.00	10.7	pass
32	2458.05	14.7	pass	72	2460.05	11.7	pass	112	2462.05	11.2	pass	152	2464.05	10.7	pass
33	2458.10	13.7	pass	73	2460.10	11.7	pass	113	2462.10	11.2	pass	153	2464.10	10.7	pass
34	2458.15	13.7	pass	74	2460.15	11.7	pass	114	2462.15	11.2	pass	154	2464.15	10.7	pass
35	2458.20	13.7	pass	75	2460.20	11.7	pass	115	2462.20	11.2	pass	155	2464.20	10.7	pass
36	2458.25	13.7	pass	76	2460.25	11.7	pass	116	2462.25	10.7	pass	156	2464.25	10.7	pass
37	2458.30	13.7	pass	77	2460.30	11.7	pass	117	2462.30	10.7	pass	157	2464.30	10.7	pass
38	2458.35	13.7	pass	78	2460.35	11.7	pass	118	2462.35	10.7	pass	158	2464.35	10.7	pass
39	2458.40	13.7	pass	79	2460.40	11.7	pass	119	2462.40	10.7	pass	159	2464.40	10.7	pass
40	2458.45	13.7	pass	80	2460.45	11.7	pass	120	2462.45	10.7	pass	160	2464.45	10.7	pass

drop 20% = 340 x 20% = 68 : therefore can drop up to 68 lowest pts

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Jamming margin @1 mb (part1)

processing gain by method of jamming margin using Debugger Software Linktest

radio conditions : supply voltage 5v, at room temp, rx s/n = #2000, tx s/n = #2003, Rev AC2 with Harris HFA3860B (CCK modulation)

tester name : Jim Nahra/ Jim Friedmann

test date : 11/17/98 | radio carrier freq= 2465

Gp = S/N + Mj + Lsys; where S/N = 13 dB as per Wireless Information Networks by Pahlavan & Levesque; Lsys = 0.5 dB

input signal level = -60 dBm, jammer level = - 62.5 dBm, then Mj= -2.5 dB

Gp = 13 dB + -2.5 dB + .5 = 11.0 dB (worst case point)

	jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)
	MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE
1	2456.50	17.6	pass	41	2458.50	12.5	pass	81	2460.50	11.5	pass	121	2462.50	11.5	pass
2	2456.55	17.6	pass	42	2458.55	12.5	pass	82	2460.55	11.5	pass	122	2462.55	11.5	pass
3	2456.60	17.1	pass	43	2458.60	12.5	pass	83	2460.60	11.5	pass	123	2462.60	11.5	pass
4	2456.65	17.1	pass	44	2458.65	12.5	pass	84	2460.65	11.5	pass	124	2462.65	11.5	pass
5	2456.70	16.5	pass	45	2458.70	12.5	pass	85	2460.70	11.5	pass	125	2462.70	11.5	pass
6	2456.75	16	pass	46	2458.75	12.5	pass	86	2460.75	11.5	pass	126	2462.75	11.5	pass
7	2456.80	16	pass	47	2458.80	12.5	pass	87	2460.80	11.5	pass	127	2462.80	11.5	pass
8	2456.85	15.5	pass	48	2458.85	12	pass	88	2460.85	11.5	pass	128	2462.85	12	pass
9	2456.90	15	pass	49	2458.90	12	pass	89	2460.90	11.5	pass	129	2462.90	12	pass
10	2456.95	15	pass	50	2458.95	12	pass	90	2460.95	11.5	pass	130	2462.95	12	pass
11	2457.00	15	pass	51	2459.00	12	pass	91	2461.00	11.5	pass	131	2463.00	12	pass
12	2457.05	15	pass	52	2459.05	12	pass	92	2461.05	11.5	pass	132	2463.05	12	pass
13	2457.10	15	pass	53	2459.10	12	pass	93	2461.10	11.5	pass	133	2463.10	12	pass
14	2457.15	14.5	pass	54	2459.15	12	pass	94	2461.15	11.5	pass	134	2463.15	12	pass
15	2457.20	14.5	pass	55	2459.20	12	pass	95	2461.20	11.5	pass	135	2463.20	12	pass
16	2457.25	14.5	pass	56	2459.25	12	pass	96	2461.25	11.5	pass	136	2463.25	12	pass
17	2457.30	14.5	pass	57	2459.30	12	pass	97	2461.30	11.5	pass	137	2463.30	12	pass
18	2457.35	14	pass	58	2459.35	12	pass	98	2461.35	11.5	pass	138	2463.35	12	pass
19	2457.40	14	pass	59	2459.40	12	pass	99	2461.40	11.5	pass	139	2463.40	12	pass
20	2457.45	14	pass	60	2459.45	12	pass	100	2461.45	11.5	pass	140	2463.45	12	pass
21	2457.50	14	pass	61	2459.50	12	pass	101	2461.50	11.5	pass	141	2463.50	12	pass
22	2457.55	14	pass	62	2459.55	12	pass	102	2461.55	11.5	pass	142	2463.55	12	pass
23	2457.60	14	pass	63	2459.60	12	pass	103	2461.60	11.5	pass	143	2463.60	12	pass
24	2457.65	14	pass	64	2459.65	12	pass	104	2461.65	11.5	pass	144	2463.65	12	pass
25	2457.70	14	pass	65	2459.70	12	pass	105	2461.70	11.5	pass	145	2463.70	12	pass
26	2457.75	13.5	pass	66	2459.75	12	pass	106	2461.75	11.5	pass	146	2463.75	12	pass
27	2457.80	13.5	pass	67	2459.80	12	pass	107	2461.80	11.5	pass	147	2463.80	12	pass
28	2457.85	13.5	pass	68	2459.85	12	pass	108	2461.85	11.5	pass	148	2463.85	12	pass
29	2457.90	13	pass	69	2459.90	12	pass	109	2461.90	11.5	pass	149	2463.90	12	pass
30	2457.95	13	pass	70	2459.95	12	pass	110	2461.95	11	pass	150	2463.95	12	pass
31	2458.00	13	pass	71	2460.00	12	pass	111	2462.00	11	pass	151	2464.00	12	pass
32	2458.05	13	pass	72	2460.05	11.5	pass	112	2462.05	11	pass	152	2464.05	12	pass
33	2458.10	13	pass	73	2460.10	11.5	pass	113	2462.10	11	pass	153	2464.10	12	pass
34	2458.15	13	pass	74	2460.15	11.5	pass	114	2462.15	11	pass	154	2464.15	12	pass
35	2458.20	13	pass	75	2460.20	11.5	pass	115	2462.20	11	pass	155	2464.20	12	pass
36	2458.25	13	pass	76	2460.25	11.5	pass	116	2462.25	11	pass	156	2464.25	12	pass
37	2458.30	13	pass	77	2460.30	11.5	pass	117	2462.30	11	pass	157	2464.30	12	pass
38	2458.35	12.5	pass	78	2460.35	11.5	pass	118	2462.35	11	pass	158	2464.35	12	pass
39	2458.40	12.5	pass	79	2460.40	11.5	pass	119	2462.40	11	pass	159	2464.40	12	pass
40	2458.45	12.5	pass	80	2460.45	11.5	pass	120	2462.45	11	pass	160	2464.45	12	pass

drop 20% = 340 x 20% = 68 ; therefore can drop 68 failures

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Jamming margin @1 mb (part2)

[redacted]

processing gain by method of jamming margin using Debugger Software Linktest

radio conditions : supply voltage 5v, at room temp, rx s/n = #2000, tx s/n = #2003, Rev AC2 with Harris HFA3860B (CCK modulation)

tester name : Jim Nahra/ Jim Friedmann

Gp = S/N + Mj + Lsys; where S/N = 13 dB as per Wireless Information Networks by Pahlavan & Levesque; Lsys = 0.5 dB

input signal level = -60 dBm, jammer level = - 62.5 dBm, then Mj= -2.5 dB

Gp = 13 dB + -2.5 dB + .5 = 11.0 dB (worst case point)

	jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)
	MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE
161	2464.50	12	pass	206	2466.75	11.5	pass	251	2469.00	11.5	pass	296	2471.25	12.5	pass
162	2464.55	12	pass	207	2466.80	11.5	pass	252	2469.05	11.5	pass	297	2471.30	12.5	pass
163	2464.60	12	pass	208	2466.85	11.5	pass	253	2469.10	11.5	pass	298	2471.35	12.5	pass
164	2464.65	11.5	pass	209	2466.90	11.5	pass	254	2469.15	11.5	pass	299	2471.40	13	pass
165	2464.70	11.5	pass	210	2466.95	11.5	pass	255	2469.20	11.5	pass	300	2471.45	13	pass
166	2464.75	11.5	pass	211	2467.00	12	pass	256	2469.25	11.5	pass	301	2471.50	13	pass
167	2464.80	11.5	pass	212	2467.05	12	pass	257	2469.30	11.5	pass	302	2471.55	13	pass
168	2464.85	11.5	pass	213	2467.10	12	pass	258	2469.35	11.5	pass	303	2471.60	13	pass
169	2464.90	11.5	pass	214	2467.15	12	pass	259	2469.40	11.5	pass	304	2471.65	13.5	pass
170	2464.95	11.5	pass	215	2467.20	12	pass	260	2469.45	11.5	pass	305	2471.70	13.5	pass
171	2465.00	11	pass	216	2467.25	12	pass	261	2469.50	11.5	pass	306	2471.75	13.5	pass
172	2465.05	11	pass	217	2467.30	12	pass	262	2469.55	11.5	pass	307	2471.80	13.5	pass
173	2465.10	11	pass	218	2467.35	12	pass	263	2469.60	11.5	pass	308	2471.85	14	pass
174	2465.15	11	pass	219	2467.40	12	pass	264	2469.65	11.5	pass	309	2471.90	14	pass
175	2465.20	11	pass	220	2467.45	12	pass	265	2469.70	11.5	pass	310	2471.95	14	pass
176	2465.25	11	pass	221	2467.50	12	pass	266	2469.75	11.5	pass	311	2472.00	14	pass
177	2465.30	11	pass	222	2467.55	12	pass	267	2469.80	11.5	pass	312	2472.05	14	pass
178	2465.35	11	pass	223	2467.60	12	pass	268	2469.85	11.5	pass	313	2472.10	14	pass
179	2465.40	11	pass	224	2467.65	12	pass	269	2469.90	11.5	pass	314	2472.15	14	pass
180	2465.45	11	pass	225	2467.70	12	pass	270	2469.95	11.5	pass	315	2472.20	14	pass
181	2465.50	11	pass	226	2467.75	12	pass	271	2470.00	12	pass	316	2472.25	14	pass
182	2465.55	11	pass	227	2467.80	12	pass	272	2470.05	12	pass	317	2472.30	14	pass
183	2465.60	11	pass	228	2467.85	12	pass	273	2470.10	12	pass	318	2472.35	14	pass
184	2465.65	11	pass	229	2467.90	12	pass	274	2470.15	12	pass	319	2472.40	14.5	pass
185	2465.70	11	pass	230	2467.95	12	pass	275	2470.20	12	pass	320	2472.45	14.5	pass
186	2465.75	11	pass	231	2468.00	12	pass	276	2470.25	12	pass	321	2472.50	14.5	pass
187	2465.80	11	pass	232	2468.05	12	pass	277	2470.30	12	pass	322	2472.55	14.5	pass
188	2465.85	11	pass	233	2468.10	12	pass	278	2470.35	12	pass	323	2472.60	14.5	pass
189	2465.90	11	pass	234	2468.15	12	pass	279	2470.40	12	pass	324	2472.65	14.5	pass
190	2465.95	11	pass	235	2468.20	12	pass	280	2470.45	12	pass	325	2472.70	14.5	pass
191	2466.00	11.5	pass	236	2468.25	12	pass	281	2470.50	12	pass	326	2472.75	14.5	pass
192	2466.05	11.5	pass	237	2468.30	12	pass	282	2470.55	12	pass	327	2472.80	14.5	pass
193	2466.10	11.5	pass	238	2468.35	12	pass	283	2470.60	12	pass	328	2472.85	15	pass
194	2466.15	11.5	pass	239	2468.40	12	pass	284	2470.65	12	pass	329	2472.90	15	pass
195	2466.20	11.5	pass	240	2468.45	12	pass	285	2470.70	12	pass	330	2472.95	15	pass
196	2466.25	11.5	pass	241	2468.50	12	pass	286	2470.75	12	pass	331	2473.00	15.5	pass
197	2466.30	11.5	pass	242	2468.55	12	pass	287	2470.80	12	pass	332	2473.05	15.5	pass
198	2466.35	11.5	pass	243	2468.60	12	pass	288	2470.85	12	pass	333	2473.10	16	pass
199	2466.40	11.5	pass	244	2468.65	12	pass	289	2470.90	12	pass	334	2473.15	16	pass
200	2466.45	11.5	pass	245	2468.70	12	pass	290	2470.95	12	pass	335	2473.20	16	pass
201	2466.50	11.5	pass	246	2468.75	12	pass	291	2471.00	12.5	pass	336	2473.25	16.5	pass
202	2466.55	11.5	pass	247	2468.80	12	pass	292	2471.05	12.5	pass	337	2473.30	17	pass
203	2466.60	11.5	pass	248	2468.85	12	pass	293	2471.10	12.5	pass	338	2473.35	17.5	pass
204	2466.65	11.5	pass	249	2468.90	12	pass	294	2471.15	12.5	pass	339	2473.40	17.5	pass
205	2466.70	11.5	pass	250	2468.95	12	pass	295	2471.20	12.5	pass	340	2473.45	18	pass

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[redacted] Jamming margin @2 mb (part1) [redacted]

processing gain by method of jamming margin using Debugger Software Linktest

radio conditions : supply voltage 5v, at room temp, rx s/n = #2000, tx s/n = #2003, Rev AC2 with Harris HFA3860B (CCK modulation)

tester name : Jim Nahra / Jim Friedmann

test date : 11/17/98 radio carrier freq= 2465

Gp = S/N + Mj + Lsys; where S/N = 13 dB as per Wireless Information Networks by Pahlavan & Levesque; Lsys = 1.0dB

input signal level = -60 dBm, jammer level = - 62.9 dBm, then Mj= -2.9 dB

Gp = 13.0 dB + -2.9 dB + 1.0 dB = 11.1 dB (worst case point)

	Jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		Jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)
	MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE
1	2456.50	19.1	pass	41	2458.50	13.6	pass	81	2460.50	11.2	pass	121	2462.50	11.1	pass
2	2456.55	19.1	pass	42	2458.55	13.6	pass	82	2460.55	11.2	pass	122	2462.55	11.1	pass
3	2456.60	19.1	pass	43	2458.60	13.6	pass	83	2460.60	11.2	pass	123	2462.60	11.1	pass
4	2456.65	19.1	pass	44	2458.65	13.6	pass	84	2460.65	11.2	pass	124	2462.65	11.1	pass
5	2456.70	18.6	pass	45	2458.70	13.1	pass	85	2460.70	11.2	pass	125	2462.70	11.1	pass
6	2456.75	18.6	pass	46	2458.75	13.1	pass	86	2460.75	11.2	pass	126	2462.75	11.1	pass
7	2456.80	18.1	pass	47	2458.80	13.1	pass	87	2460.80	11.2	pass	127	2462.80	11.1	pass
8	2456.85	18.1	pass	48	2458.85	12.6	pass	88	2460.85	11.2	pass	128	2462.85	11.1	pass
9	2456.90	17.6	pass	49	2458.90	12.5	pass	89	2460.90	11.2	pass	129	2462.90	11.1	pass
10	2456.95	17.6	pass	50	2458.95	12.6	pass	90	2460.95	11.2	pass	130	2462.95	11.1	pass
11	2457.00	17.1	pass	51	2459.00	12.5	pass	91	2461.00	11.2	pass	131	2463.00	11.1	pass
12	2457.05	17.1	pass	52	2459.05	12.6	pass	92	2461.05	11.2	pass	132	2463.05	11.1	pass
13	2457.10	17.1	pass	53	2459.10	12.6	pass	93	2461.10	11.2	pass	133	2463.10	11.1	pass
14	2457.15	17.1	pass	54	2459.15	12.6	pass	94	2461.15	11.2	pass	134	2463.15	11.1	pass
15	2457.20	17.1	pass	55	2459.20	12.6	pass	95	2461.20	11.2	pass	135	2463.20	11.1	pass
16	2457.25	17.1	pass	56	2459.25	12.6	pass	96	2461.25	11.2	pass	136	2463.25	11.1	pass
17	2457.30	16.6	pass	57	2459.30	12.6	pass	97	2461.30	11.2	pass	137	2463.30	11.1	pass
18	2457.35	16.6	pass	58	2459.35	12.6	pass	98	2461.35	11.2	pass	138	2463.35	11.1	pass
19	2457.40	16.6	pass	59	2459.40	12.6	pass	99	2461.40	11.2	pass	139	2463.40	11.1	pass
20	2457.45	16.1	pass	60	2459.45	12.6	pass	100	2461.45	11.2	pass	140	2463.45	11.1	pass
21	2457.50	16.1	pass	61	2459.50	12.6	pass	101	2461.50	11.2	pass	141	2463.50	11.1	pass
22	2457.55	15.6	pass	62	2459.55	12.6	pass	102	2461.55	11.2	pass	142	2463.55	11.1	pass
23	2457.60	15.6	pass	63	2459.60	12.6	pass	103	2461.60	11.2	pass	143	2463.60	11.1	pass
24	2457.65	15.6	pass	64	2459.65	12.6	pass	104	2461.65	11.2	pass	144	2463.65	11.1	pass
25	2457.70	15.6	pass	65	2459.70	12.6	pass	105	2461.70	11.2	pass	145	2463.70	11.1	pass
26	2457.75	15.1	pass	66	2459.75	12.6	pass	106	2461.75	11.2	pass	146	2463.75	11.1	pass
27	2457.80	15.1	pass	67	2459.80	12.6	pass	107	2461.80	11.2	pass	147	2463.80	11.1	pass
28	2457.85	14.6	pass	68	2459.85	12.6	pass	108	2461.85	11.2	pass	148	2463.85	11.1	pass
29	2457.90	14.6	pass	69	2459.90	12.6	pass	109	2461.90	11.2	pass	149	2463.90	11.1	pass
30	2457.95	14.6	pass	70	2459.95	12.6	pass	110	2461.95	11.2	pass	150	2463.95	11.1	pass
31	2458.00	14.6	pass	71	2460.00	12.6	pass	111	2462.00	11.2	pass	151	2464.00	11.1	pass
32	2458.05	14.6	pass	72	2460.05	12.1	pass	112	2462.05	11.2	pass	152	2464.05	11.5	pass
33	2458.10	14.1	pass	73	2460.10	12.1	pass	113	2462.10	11.2	pass	153	2464.10	11.5	pass
34	2458.15	14.1	pass	74	2460.15	12.1	pass	114	2462.15	11.2	pass	154	2464.15	11.5	pass
35	2458.20	14.1	pass	75	2460.20	11.6	pass	115	2462.20	11.2	pass	155	2464.20	11.5	pass
36	2458.25	14.1	pass	76	2460.25	11.6	pass	116	2462.25	11.1	pass	156	2464.25	11.5	pass
37	2458.30	14.1	pass	77	2460.30	11.1	pass	117	2462.30	11.1	pass	157	2464.30	11.5	pass
38	2458.35	14.1	pass	78	2460.35	11.1	pass	118	2462.35	11.1	pass	158	2464.35	11.5	pass
39	2458.40	13.6	pass	79	2460.40	11.1	pass	119	2462.40	11.1	pass	159	2464.40	11.5	pass
40	2458.45	13.6	pass	80	2460.45	11.1	pass	120	2462.45	11.1	pass	160	2464.45	11.5	pass

drop 20% = 340 x 20% = 68 ; therefore can drop 68 failures

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Jamming margin @2mb (part2)

processing gain by method of jamming margin using Debugger Software Linktest

radio conditions : supply voltage 5v, at room temp, rx s/n = #2000, tx s/n = #2003, Rev AC2 with Harris HFA3860B (CCK modulation)

tester name : Jim Nahra/ Jim Friedmann

Gp = S/N + Mj + Lsys; where S/N = 13 dB as per Wireless Information Networks by Pahlavan & Levesque; Lsys = 1.0dB

input signal level = -60 dBm, jammer level = - 62.9 dBm, then Mj= -2.9 dB

Gp = 13.0 dB + -2.9 dB + 1.0 dB = 11.1 dB (worst case point)

	jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)
	MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE
161	2464.50	11.1	pass	206	2466.75	11.6	pass	251	2469.00	11.6	pass	296	2471.25	13.1	pass
162	2464.55	11.1	pass	207	2466.80	11.6	pass	252	2469.05	11.6	pass	297	2471.30	13.1	pass
163	2464.60	11.1	pass	208	2466.85	11.6	pass	253	2469.10	11.6	pass	298	2471.35	13.6	pass
164	2464.65	11.1	pass	209	2466.90	11.6	pass	254	2469.15	11.6	pass	299	2471.40	13.6	pass
165	2464.70	11.1	pass	210	2466.95	11.6	pass	255	2469.20	11.6	pass	300	2471.45	13.6	pass
166	2464.75	11.1	pass	211	2467.00	11.6	pass	256	2469.25	11.6	pass	301	2471.50	13.6	pass
167	2464.80	11.1	pass	212	2467.05	11.6	pass	257	2469.30	11.6	pass	302	2471.55	14.1	pass
168	2464.85	11.1	pass	213	2467.10	11.6	pass	258	2469.35	11.6	pass	303	2471.60	14.1	pass
169	2464.90	11.1	pass	214	2467.15	11.6	pass	259	2469.40	11.6	pass	304	2471.65	14.1	pass
170	2464.95	11.1	pass	215	2467.20	11.6	pass	260	2469.45	11.6	pass	305	2471.70	14.1	pass
171	2465.00	11.1	pass	216	2467.25	11.6	pass	261	2469.50	11.6	pass	306	2471.75	14.1	pass
172	2465.05	11.1	pass	217	2467.30	11.6	pass	262	2469.55	11.6	pass	307	2471.80	14.1	pass
173	2465.10	11.6	pass	218	2467.35	11.6	pass	263	2469.60	11.6	pass	308	2471.85	14.1	pass
174	2465.15	11.6	pass	219	2467.40	11.6	pass	264	2469.65	11.6	pass	309	2471.90	14.1	pass
175	2465.20	11.6	pass	220	2467.45	11.6	pass	265	2469.70	11.6	pass	310	2471.95	14.6	pass
176	2465.25	11.6	pass	221	2467.50	11.6	pass	266	2469.75	11.6	pass	311	2472.00	14.6	pass
177	2465.30	11.6	pass	222	2467.55	11.6	pass	267	2469.80	11.6	pass	312	2472.05	15.1	pass
178	2465.35	11.6	pass	223	2467.60	11.6	pass	268	2469.85	11.6	pass	313	2472.10	15.1	pass
179	2465.40	11.6	pass	224	2467.65	11.6	pass	269	2469.90	12.1	pass	314	2472.15	15.1	pass
180	2465.45	11.6	pass	225	2467.70	11.6	pass	270	2469.95	12.6	pass	315	2472.20	15.1	pass
181	2465.50	11.6	pass	226	2467.75	11.6	pass	271	2470.00	13.1	pass	316	2472.25	15.6	pass
182	2465.55	11.6	pass	227	2467.80	11.6	pass	272	2470.05	13.1	pass	317	2472.30	15.6	pass
183	2465.60	11.6	pass	228	2467.85	11.6	pass	273	2470.10	13.1	pass	318	2472.35	15.6	pass
184	2465.65	11.6	pass	229	2467.90	11.6	pass	274	2470.15	13.1	pass	319	2472.40	16.1	pass
185	2465.70	11.6	pass	230	2467.95	11.6	pass	275	2470.20	13.1	pass	320	2472.45	16.1	pass
186	2465.75	11.6	pass	231	2468.00	11.6	pass	276	2470.25	13.1	pass	321	2472.50	16.1	pass
187	2465.80	11.6	pass	232	2468.05	11.6	pass	277	2470.30	13.1	pass	322	2472.55	16.6	pass
188	2465.85	11.6	pass	233	2468.10	11.6	pass	278	2470.35	13.1	pass	323	2472.60	17.1	pass
189	2465.90	11.6	pass	234	2468.15	11.6	pass	279	2470.40	13.1	pass	324	2472.65	17.1	pass
190	2465.95	11.6	pass	235	2468.20	11.6	pass	280	2470.45	13.1	pass	325	2472.70	17.1	pass
191	2466.00	11.6	pass	236	2468.25	11.6	pass	281	2470.50	13.1	pass	326	2472.75	17.1	pass
192	2466.05	11.6	pass	237	2468.30	11.6	pass	282	2470.55	13.1	pass	327	2472.80	17.6	pass
193	2466.10	11.6	pass	238	2468.35	11.6	pass	283	2470.60	13.1	pass	328	2472.85	18.1	pass
194	2466.15	11.6	pass	239	2468.40	11.6	pass	284	2470.65	13.1	pass	329	2472.90	18.1	pass
195	2466.20	11.6	pass	240	2468.45	11.6	pass	285	2470.70	13.1	pass	330	2472.95	18.1	pass
196	2466.25	11.6	pass	241	2468.50	11.6	pass	286	2470.75	13.1	pass	331	2473.00	18.6	pass
197	2466.30	11.6	pass	242	2468.55	11.6	pass	287	2470.80	13.1	pass	332	2473.05	18.6	pass
198	2466.35	11.6	pass	243	2468.60	11.6	pass	288	2470.85	13.1	pass	333	2473.10	19.1	pass
199	2466.40	11.6	pass	244	2468.65	11.6	pass	289	2470.90	13.1	pass	334	2473.15	18.6	pass
200	2466.45	11.6	pass	245	2468.70	11.6	pass	290	2470.95	13.1	pass	335	2473.20	19.6	pass
201	2466.50	11.6	pass	246	2468.75	11.6	pass	291	2471.00	13.1	pass	336	2473.25	20.1	pass
202	2466.55	11.6	pass	247	2468.80	11.6	pass	292	2471.05	13.1	pass	337	2473.30	20.1	pass
203	2466.60	11.6	pass	248	2468.85	11.6	pass	293	2471.10	13.1	pass	338	2473.35	20.6	pass
204	2466.65	11.6	pass	249	2468.90	11.6	pass	294	2471.15	13.1	pass	339	2473.40	21.1	pass
205	2466.70	11.6	pass	250	2468.95	11.6	pass	295	2471.20	13.1	pass	340	2473.45	21.6	pass

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Jamming margin @5.5mb CCK part1

processing gain by method of jamming margin using Debugger Software Linktest

radio conditions : supply voltage 5v, at room temp, rx s/n = #2000, tx s/n = #2003, Rev AC2 with Harris HFA3860B (CCK modulation)

tester name : Jim Nahra / Jim Friedmann

test date : 11/16/98 radio carrier freq= 2465

Gp = S/N + Mj + Lsys; where S/N = 13.6 dB as per CCK modulation; Lsys = 2.0 dB

input signal level = -60 dBm, jammer level = - 65.2 dBm, then Mj= - 5.2 dB for 10-5 BER

Gp = 13.6 dB + -5.2 dB + 2.0 dB = 10.4 dB (worst case point after lowest 20% discarded)

	jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)
	MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE
1	2456.50	17.5	pass	41	2458.50	12.5	pass	81	2460.50	11	pass	121	2462.50	10.4	pass
2	2456.55	17.5	pass	42	2458.55	12.5	pass	82	2460.55	11	pass	122	2462.55	10.4	pass
3	2456.60	17	pass	43	2458.60	12.5	pass	83	2460.60	11	pass	123	2462.60	10.4	pass
4	2456.65	17	pass	44	2458.65	12.5	pass	84	2460.65	11	pass	124	2462.65	10.4	pass
5	2456.70	17	pass	45	2458.70	12.5	pass	85	2460.70	11	pass	125	2462.70	10.4	pass
6	2456.75	17	pass	46	2458.75	12.5	pass	86	2460.75	11	pass	126	2462.75	10.4	pass
7	2456.80	16.5	pass	47	2458.80	12.5	pass	87	2460.80	11	pass	127	2462.80	10.4	pass
8	2456.85	16.5	pass	48	2458.85	12.5	pass	88	2460.85	11	pass	128	2462.85	10.4	pass
9	2456.90	16.5	pass	49	2458.90	12.5	pass	89	2460.90	10.5	pass	129	2462.90	10.4	pass
10	2456.95	16.5	pass	50	2458.95	12	pass	90	2460.95	10.5	pass	130	2462.95	10.4	pass
11	2457.00	16.5	pass	51	2459.00	12	pass	91	2461.00	10.5	pass	131	2463.00	10.4	pass
12	2457.05	16.5	pass	52	2459.05	12	pass	92	2461.05	10.5	pass	132	2463.05	10.4	pass
13	2457.10	16.5	pass	53	2459.10	12	pass	93	2461.10	10.5	pass	133	2463.10	10.4	pass
14	2457.15	16	pass	54	2459.15	12	pass	94	2461.15	10.5	pass	134	2463.15	10.4	pass
15	2457.20	16	pass	55	2459.20	12	pass	95	2461.20	10.5	pass	135	2463.20	10.4	pass
16	2457.25	16	pass	56	2459.25	12	pass	96	2461.25	10.5	pass	136	2463.25	10.4	pass
17	2457.30	16	pass	57	2459.30	11.5	pass	97	2461.30	10.5	pass	137	2463.30	10.4	pass
18	2457.35	15.5	pass	58	2459.35	11.5	pass	98	2461.35	10.5	pass	138	2463.35	9.5	Fail-discard
19	2457.40	15.5	pass	59	2459.40	11.5	pass	99	2461.40	10.5	pass	139	2463.40	10.4	pass
20	2457.45	15	pass	60	2459.45	11.5	pass	100	2461.45	10.5	pass	140	2463.45	10.4	pass
21	2457.50	15	pass	61	2459.50	11.5	pass	101	2461.50	10.5	pass	141	2463.50	10.4	pass
22	2457.55	16	pass	62	2459.55	11.5	pass	102	2461.55	10.5	pass	142	2463.55	10.4	pass
23	2457.60	15	pass	63	2459.60	11.5	pass	103	2461.60	10.5	pass	143	2463.60	10.4	pass
24	2457.65	14.5	pass	64	2459.65	11.5	pass	104	2461.65	10.5	pass	144	2463.65	10.4	pass
25	2457.70	14.5	pass	65	2459.70	11.5	pass	105	2461.70	10.5	pass	145	2463.70	10.4	pass
26	2457.75	14.5	pass	66	2459.75	11.5	pass	106	2461.75	10.5	pass	146	2463.75	10.4	pass
27	2457.80	14	pass	67	2459.80	11.5	pass	107	2461.80	10	pass-disc	147	2463.80	10.4	pass
28	2457.85	14	pass	68	2459.85	11.5	pass	108	2461.85	10	pass-disc	148	2463.85	10.4	pass
29	2457.90	13.5	pass	69	2459.90	11.5	pass	109	2461.90	10	pass-disc	149	2463.90	10.4	pass
30	2457.95	13	pass	70	2459.95	11.5	pass	110	2461.95	10	pass-disc	150	2463.95	10.4	pass
31	2458.00	13	pass	71	2460.00	11.5	pass	111	2462.00	9.5	Fail-discard	151	2464.00	10.4	pass
32	2458.05	13	pass	72	2460.05	11.5	pass	112	2462.05	10	pass-disc	152	2464.05	10.4	pass
33	2458.10	13	pass	73	2460.10	11.5	pass	113	2462.10	9.5	Fail-discard	153	2464.10	10.4	pass
34	2458.15	13	pass	74	2460.15	11.5	pass	114	2462.15	10	pass-disc	154	2464.15	10.4	pass
35	2458.20	13	pass	75	2460.20	11.5	pass	115	2462.20	9.5	Fail-discard	155	2464.20	10.4	pass
36	2458.25	13	pass	76	2460.25	11.5	pass	116	2462.25	10	pass-disc	156	2464.25	10.4	pass
37	2458.30	13	pass	77	2460.30	11.5	pass	117	2462.30	9.5	Fail-discard	157	2464.30	10.4	pass
38	2458.35	13	pass	78	2460.35	11.5	pass	118	2462.35	10	pass-disc	158	2464.35	10.4	pass
39	2458.40	12.5	pass	79	2460.40	11.5	pass	119	2462.40	9.5	Fail-discard	159	2464.40	9.5	Fail-discard
40	2458.45	12.5	pass	80	2460.45	11.5	pass	120	2462.45	10	pass-disc	160	2464.45	10.4	pass

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Jamming margin @5.5mb CCK part2

processing gain by method of jamming margin using Debugger Software Linktest																	
radio conditions : supply voltage 5v, at room temp. rx s/n = #2000, tx s/n = #2003, Rev AC2 with Harris HFA3860B (CCK modulation)																	
tester name : Jim Nahra / Jim Friedmann																	
Gp = S/N + Mj + Lsys; where S/N = 13.6 dB as per CCK modulation; Lsys = 2.0 dB																	
input signal level = -60 dBm, jammer level = - 65.2 dBm, then Mj= - 5.2 dB for 10-5 BER																	
Gp = 13.6 dB + -5.2 dB + 2.0 dB = 10.4 dB (worst case point after lowest 20% discarded)																	
	jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		jammer freq	Gp	pass (error rate under 1x10-5)		
	MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		MHz	dB	pass / FAILURE		
161	2464.50	10	pass-disc	206	2466.75	10.4	pass	251	2469.00	10.4	pass	296	2471.25	13.0	pass		
162	2464.55	10.4	pass-disc	207	2466.80	10.4	pass	252	2469.05	10.5	pass	297	2471.30	13.0	pass		
163	2464.60	10	pass-disc	208	2466.85	10.4	pass	253	2469.10	11	pass	298	2471.35	13.0	pass		
164	2464.65	9.5	Fail-discard	209	2466.90	10.4	pass	254	2469.15	11	pass	299	2471.40	13.5	pass		
165	2464.70	9.5	Fail-discard	210	2466.95	10.4	pass	255	2469.20	11	pass	300	2471.45	13.5	pass		
166	2464.75	9.5	Fail-discard	211	2467.00	10.4	pass	256	2469.25	11	pass	301	2471.50	13.5	pass		
167	2464.80	10	pass-disc	212	2467.05	10.4	pass	257	2469.30	11	pass	302	2471.55	13.5	pass		
168	2464.85	9.5	Fail-discard	213	2467.10	10.4	pass	258	2469.35	11	pass	303	2471.60	14.0	pass		
169	2464.90	9.5	Fail-discard	214	2467.15	10.4	pass	259	2469.40	11	pass	304	2471.65	14.0	pass		
170	2464.95	10	pass-disc	215	2467.20	10.4	pass	260	2469.45	11	pass	305	2471.70	14.0	pass		
171	2465.00	10.4	pass	216	2467.25	10.4	pass	261	2469.50	11	pass	306	2471.75	14.0	pass		
172	2465.05	10.4	pass	217	2467.30	10	pass-disc	262	2469.55	11	pass	307	2471.80	14.5	pass		
173	2465.10	10.4	pass	218	2467.35	9.5	Fail-discard	263	2469.60	11	pass	308	2471.85	14.5	pass		
174	2465.15	10.4	pass	219	2467.40	9.5	Fail-discard	264	2469.65	11	pass	309	2471.90	14.5	pass		
175	2465.20	10.4	pass	220	2467.45	9.5	Fail-discard	265	2469.70	11	pass	310	2471.95	14.5	pass		
176	2465.25	10.4	pass	221	2467.50	9.5	Fail-discard	266	2469.75	11	pass	311	2472.00	14.5	pass		
177	2465.30	10.4	pass	222	2467.55	9.5	Fail-discard	267	2469.80	11	pass	312	2472.05	15	pass		
178	2465.35	10.4	pass	223	2467.60	9.5	Fail-discard	268	2469.85	11	pass	313	2472.10	15.5	pass		
179	2465.40	10.4	pass	224	2467.65	9.5	Fail-discard	269	2469.90	11	pass	314	2472.15	15.5	pass		
180	2465.45	10.4	pass	225	2467.70	9.5	Fail-discard	270	2469.95	11	pass	315	2472.20	15.5	pass		
181	2465.50	10.4	pass	226	2467.75	10	pass-disc	271	2470.00	11	pass	316	2472.25	15.5	pass		
182	2465.55	10.4	pass	227	2467.80	10	pass-disc	272	2470.05	11	pass	317	2472.30	15.5	pass		
183	2465.60	10.4	pass	228	2467.85	9.5	Fail-discard	273	2470.10	11	pass	318	2472.35	16	pass		
184	2465.65	10.4	pass	229	2467.90	9.5	Fail-discard	274	2470.15	11.5	pass	319	2472.40	16.5	pass		
185	2465.70	10.4	pass	230	2467.95	9.5	Fail-discard	275	2470.20	11.5	pass	320	2472.45	16.5	pass		
186	2465.75	10.4	pass	231	2468.00	10.5	pass	276	2470.25	11.5	pass	321	2472.50	16.5	pass		
187	2465.80	10.4	pass	232	2468.05	10.5	pass	277	2470.30	11.5	pass	322	2472.55	16.5	pass		
188	2465.85	10.4	pass	233	2468.10	10.5	pass	278	2470.35	11.5	pass	323	2472.60	17	pass		
189	2465.90	10.4	pass	234	2468.15	10.5	pass	279	2470.40	12	pass	324	2472.65	17	pass		
190	2465.95	10.4	pass	235	2468.20	10.5	pass	280	2470.45	12	pass	325	2472.70	17.5	pass		
191	2466.00	10.4	pass	236	2468.25	10.5	pass	281	2470.50	12	pass	326	2472.75	17.5	pass		
192	2466.05	10	pass-disc	237	2468.30	10.5	pass	282	2470.55	12	pass	327	2472.80	17.5	pass		
193	2466.10	9.5	Fail-discard	238	2468.35	10.5	pass	283	2470.60	12	pass	328	2472.85	18	pass		
194	2466.15	9.5	Fail-discard	239	2468.40	10.5	pass	284	2470.65	12	pass	329	2472.90	18	pass		
195	2466.20	10	pass-disc	240	2468.45	10.5	pass	285	2470.70	12	pass	330	2472.95	18	pass		
196	2466.25	10	pass-disc	241	2468.50	10.5	pass	286	2470.75	12.5	pass	331	2473.00	18.5	pass		
197	2466.30	10.4	pass	242	2468.55	10.5	pass	287	2470.80	12.5	pass	332	2473.05	18.5	pass		
198	2466.35	10.4	pass	243	2468.60	10.5	pass	288	2470.85	12.5	pass	333	2473.10	19	pass		
199	2466.40	10.4	pass	244	2468.65	10.5	pass	289	2470.90	12.5	pass	334	2473.15	19	pass		
200	2466.45	10.4	pass	245	2468.70	10.5	pass	290	2470.95	12.5	pass	335	2473.20	19	pass		
201	2466.50	10.3	pass	246	2468.75	10.5	pass	291	2471.00	12.5	pass	336	2473.25	19	pass		
202	2466.55	10.2	pass	247	2468.80	10.5	pass	292	2471.05	12.5	pass	337	2473.30	19	pass		
203	2466.60	10.4	pass	248	2468.85	10.5	pass	293	2471.10	12.5	pass	338	2473.35	19	pass		
204	2466.65	10.4	pass	249	2468.90	10.4	pass	294	2471.15	13	pass	339	2473.40	20	pass		
205	2466.70	10.4	pass	250	2468.95	10.5	pass	295	2471.20	13	pass	340	2473.45	20.5	pass		

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