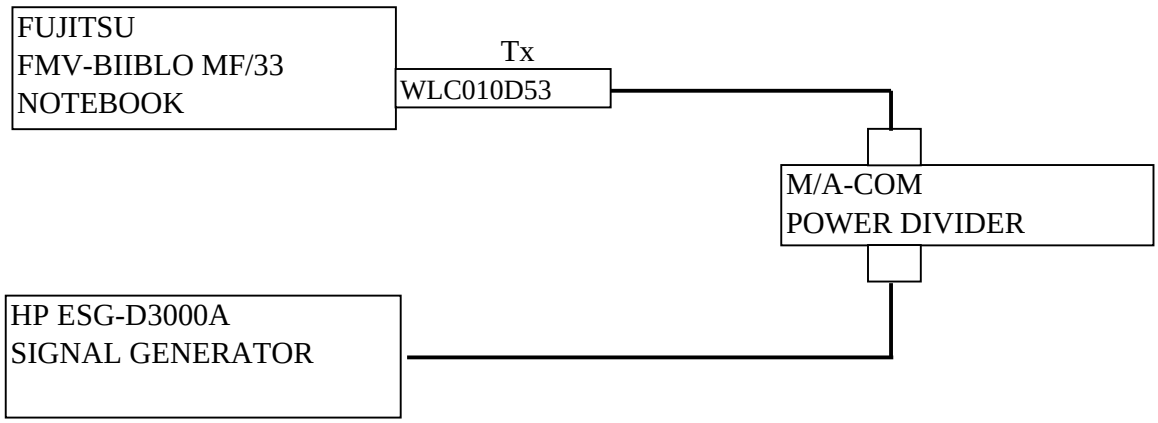
Processing Gain Test Set Up

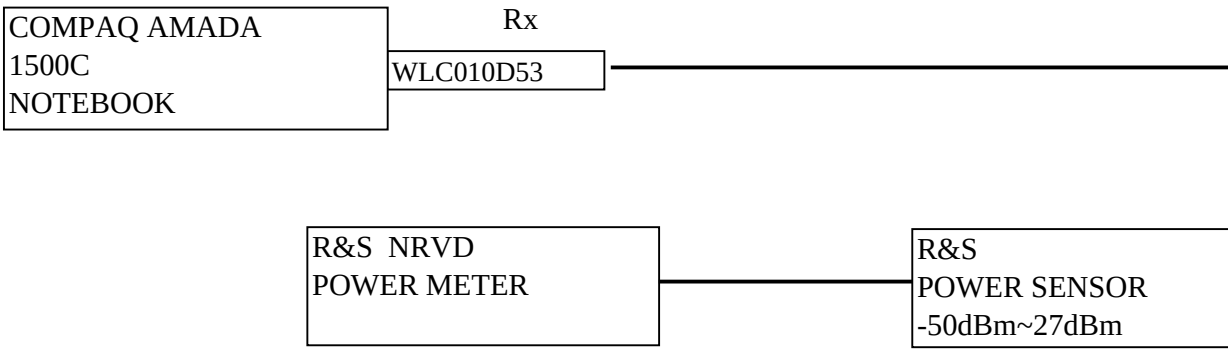


HP8496B
ATTENUATOR
(10dB STEPS)

: Cable

WEINSCHEL CORP.
ATTENUATOR
(1dB STEPS)

M/A-COM
POWER DIVIDER



Test Conditions

Askey Wireless LAN card : WLC010D53
Transmitter Signal Level at Rx = -40.5 dBm
Firmware = 6C3
Transmit Data rate = 11Mps @CH1=2412MHz, CH6=2437MHz, CH11=2462MHz
Measure Range = centrral frequency +- 6MHz
Packet size = 1000 bytes
Intersil Chip versions on card : HFA3983 , HFA3683A , HFA3783 , HFA3861B
HFA3841
All Test Data is under 8% Frame Error Rate

11 Mbps CHANNEL 1 Processing Gain
Gp=(S/N)o+Mj+Lsys

Freq. (GHz)	Gp (dB)	(S/N)o (dB)	Mj=J/S (dB)	Lsys (dB)
2.406	15.7	16.4	-2.7	2
2.4061	15.8	16.4	-2.6	2
2.4062	15.4	16.4	-3	2
2.4063	15.5	16.4	-2.9	2
2.4064	15.1	16.4	-3.3	2
2.4065	14.9	16.4	-3.5	2
2.4066	14.7	16.4	-3.7	2
2.4067	14.3	16.4	-4.1	2
2.4068	14	16.4	-4.4	2
2.4069	14.3	16.4	-4.1	2
2.407	14.1	16.4	-4.3	2
2.4071	13.8	16.4	-4.6	2
2.4072	13.9	16.4	-4.5	2
2.4073	13.7	16.4	-4.7	2
2.4074	13.4	16.4	-5	2
2.4075	13.2	16.4	-5.2	2
2.4076	13.1	16.4	-5.3	2
2.4077	13.3	16.4	-5.1	2
2.4078	13.1	16.4	-5.3	2
2.4079	12.9	16.4	-5.5	2
2.408	12.7	16.4	-5.7	2
2.4081	12.5	16.4	-5.9	2
2.4082	12.7	16.4	-5.7	2
2.4083	12.6	16.4	-5.8	2
2.4084	12.5	16.4	-5.9	2
2.4085	12.4	16.4	-6	2
2.4086	12.1	16.4	-6.3	2
2.4087	12.3	16.4	-6.1	2
2.4088	12	16.4	-6.4	2
2.4089	11.9	16.4	-6.5	2
2.409	11.7	16.4	-6.7	2
2.4091	11.8	16.4	-6.6	2
2.4092	11.5	16.4	-6.9	2
2.4093	11.7	16.4	-6.7	2
2.4094	11.6	16.4	-6.8	2
2.4095	11.4	16.4	-7	2
2.4096	11.2	16.4	-7.2	2
2.4097	11.1	16.4	-7.3	2
2.4098	11	16.4	-7.4	2
2.4099	11.1	16.4	-7.3	2
2.41	11.2	16.4	-7.2	2
2.4101	11.3	16.4	-7.1	2
2.4102	11.5	16.4	-6.9	2
2.4103	11.4	16.4	-7	2
2.4104	11.4	16.4	-7	2
2.4105	11.4	16.4	-7	2

2.4106	11.4	16.4	-7	2
2.4107	11.4	16.4	-7	2
2.4108	11.7	16.4	-6.7	2
2.4109	11.9	16.4	-6.5	2
2.411	12.1	16.4	-6.3	2
2.4111	12.1	16.4	-6.3	2
2.4112	12.1	16.4	-6.3	2
2.4113	11.9	16.4	-6.5	2
2.4114	12	16.4	-6.4	2
2.4115	12	16.4	-6.4	2
2.4116	12.4	16.4	-6	2
2.4117	12.5	16.4	-5.9	2
2.4118	12.7	16.4	-5.7	2
2.4119	12.5	16.4	-5.9	2
2.412	12.5	16.4	-5.9	2
2.4121	12.5	16.4	-5.9	2
2.4122	12.6	16.4	-5.8	2
2.4123	12.5	16.4	-5.9	2
2.4124	12.5	16.4	-5.9	2
2.4125	12.2	16.4	-6.2	2
2.4126	12.2	16.4	-6.2	2
2.4127	12	16.4	-6.4	2
2.4128	11.8	16.4	-6.6	2
2.4129	11.7	16.4	-6.7	2
2.413	11.6	16.4	-6.8	2
2.4131	11.6	16.4	-6.8	2
2.4132	11.6	16.4	-6.8	2
2.4133	11.5	16.4	-6.9	2
2.4134	11.4	16.4	-7	2
2.4135	11.4	16.4	-7	2
2.4136	11.4	16.4	-7	2
2.4137	11.4	16.4	-7	2
2.4138	11.2	16.4	-7.2	2
2.4139	11.2	16.4	-7.2	2
2.414	11.1	16.4	-7.3	2
2.4141	11	16.4	-7.4	2
2.4142	11.1	16.4	-7.3	2
2.4143	11.2	16.4	-7.2	2
2.4144	11.3	16.4	-7.1	2
2.4145	11.4	16.4	-7	2
2.4146	11.5	16.4	-6.9	2
2.4147	11.6	16.4	-6.8	2
2.4148	11.9	16.4	-6.5	2
2.4149	12	16.4	-6.4	2
2.415	12.1	16.4	-6.3	2
2.4151	12	16.4	-6.4	2
2.4152	12.2	16.4	-6.2	2
2.4153	12.3	16.4	-6.1	2

2.4154	12.5	16.4	-5.9	2
2.4155	12.4	16.4	-6	2
2.4156	12.5	16.4	-5.9	2
2.4157	12.7	16.4	-5.7	2
2.4158	12.8	16.4	-5.6	2
2.4159	12.9	16.4	-5.5	2
2.416	12.8	16.4	-5.6	2
2.4161	13.1	16.4	-5.3	2
2.4162	13.4	16.4	-5	2
2.4163	13.8	16.4	-4.6	2
2.4164	13.7	16.4	-4.7	2
2.4165	14.1	16.4	-4.3	2
2.4166	14.4	16.4	-4	2
2.4167	14.8	16.4	-3.6	2
2.4168	14.7	16.4	-3.7	2
2.4169	14.9	16.4	-3.5	2
2.417	15.1	16.4	-3.3	2
2.4171	15	16.4	-3.4	2
2.4172	15.2	16.4	-3.2	2
2.4173	15.5	16.4	-2.9	2
2.4174	15.4	16.4	-3	2
2.4175	15.7	16.4	-2.7	2
2.4176	16.9	16.4	-1.5	2
2.4177	16.8	16.4	-1.6	2
2.4178	16.7	16.4	-1.7	2
2.4179	16.9	16.4	-1.5	2
2.418	17	16.4	-1.4	2

11 Mbps CHANNEL 6 Processing Gain				
		Gp=(S/N)o+Mj+Lsys		
Freq.	**Gp**	**(S/N)o**	**Mj=J/S**	**Lsys**
(GHz)	**(dB)**	**(dB)**	**(dB)**	**(dB)**
2.431	15.5	16.4	-2.9	2
2.4311	15.7	16.4	-2.7	2
2.4312	15.5	16.4	-2.9	2
2.4313	15.4	16.4	-3	2

2.4314	15.1	16.4	-3.3	2
2.4315	15.3	16.4	-3.1	2
2.4316	14.8	16.4	-3.6	2
2.4317	14.6	16.4	-3.8	2
2.4318	14.3	16.4	-4.1	2
2.4319	13.8	16.4	-4.6	2
2.432	14	16.4	-4.4	2
2.4321	13.6	16.4	-4.8	2
2.4322	13.3	16.4	-5.1	2
2.4323	13	16.4	-5.4	2
2.4324	12.8	16.4	-5.6	2
2.4325	12.7	16.4	-5.7	2
2.4326	12.5	16.4	-5.9	2
2.4327	12.6	16.4	-5.8	2
2.4328	12.4	16.4	-6	2
2.4329	12.5	16.4	-5.9	2
2.433	12.4	16.4	-6	2
2.4331	12.3	16.4	-6.1	2
2.4332	12.3	16.4	-6.1	2
2.4333	12.1	16.4	-6.3	2
2.4334	11.9	16.4	-6.5	2
2.4335	11.7	16.4	-6.7	2
2.4336	11.9	16.4	-6.5	2
2.4337	11.8	16.4	-6.6	2
2.4338	11.6	16.4	-6.8	2
2.4339	11.5	16.4	-6.9	2
2.434	11.4	16.4	-7	2
2.4341	11.1	16.4	-7.3	2
2.4342	11.2	16.4	-7.2	2
2.4343	10.9	16.4	-7.5	2
2.4344	10.8	16.4	-7.6	2
2.4345	10.8	16.4	-7.6	2
2.4346	10.6	16.4	-7.8	2
2.4347	10.7	16.4	-7.7	2
2.4348	10.5	16.4	-7.9	2
2.4349	10.4	16.4	-8	2
2.435	10.2	16.4	-8.2	2
2.4351	10.4	16.4	-8	2
2.4352	10.5	16.4	-7.9	2
2.4353	10.5	16.4	-7.9	2
2.4354	10.5	16.4	-7.9	2
2.4355	10.4	16.4	-8	2
2.4356	10.5	16.4	-7.9	2
2.4357	10.5	16.4	-7.9	2
2.4358	10.7	16.4	-7.7	2
2.4359	10.9	16.4	-7.5	2
2.436	11.1	16.4	-7.3	2
2.4361	11.1	16.4	-7.3	2

2.4362	11.1	16.4	-7.3	2
2.4363	11	16.4	-7.4	2
2.4364	11	16.4	-7.4	2
2.4365	11.3	16.4	-7.1	2
2.4366	11.5	16.4	-6.9	2
2.4367	11.6	16.4	-6.8	2
2.4368	11.7	16.4	-6.7	2
2.4369	11.7	16.4	-6.7	2
2.437	11.6	16.4	-6.8	2
2.4371	11.6	16.4	-6.8	2
2.4372	11.6	16.4	-6.8	2
2.4373	11.7	16.4	-6.7	2
2.4374	11.7	16.4	-6.7	2
2.4375	11.7	16.4	-6.7	2
2.4376	11.6	16.4	-6.8	2
2.4377	11.6	16.4	-6.8	2
2.4378	11.4	16.4	-7	2
2.4379	11.4	16.4	-7	2
2.438	11.4	16.4	-7	2
2.4381	11.4	16.4	-7	2
2.4382	11.4	16.4	-7	2
2.4383	11	16.4	-7.4	2
2.4384	11	16.4	-7.4	2
2.4385	11	16.4	-7.4	2
2.4386	10.9	16.4	-7.5	2
2.4387	10.8	16.4	-7.6	2
2.4388	10.7	16.4	-7.7	2
2.4389	10.7	16.4	-7.7	2
2.439	10.7	16.4	-7.7	2
2.4391	10.8	16.4	-7.6	2
2.4392	10.9	16.4	-7.5	2
2.4393	10.9	16.4	-7.5	2
2.4394	10.8	16.4	-7.6	2
2.4395	11	16.4	-7.4	2
2.4396	11.1	16.4	-7.3	2
2.4397	11.2	16.4	-7.2	2
2.4398	11	16.4	-7.4	2
2.4399	11.2	16.4	-7.2	2
2.44	11.3	16.4	-7.1	2
2.4401	11.3	16.4	-7.1	2
2.4402	11.4	16.4	-7	2
2.4403	11.5	16.4	-6.9	2
2.4404	11.6	16.4	-6.8	2
2.4405	11.7	16.4	-6.7	2
2.4406	11.5	16.4	-6.9	2
2.4407	11.5	16.4	-6.9	2
2.4408	11.6	16.4	-6.8	2
2.4409	11.8	16.4	-6.6	2

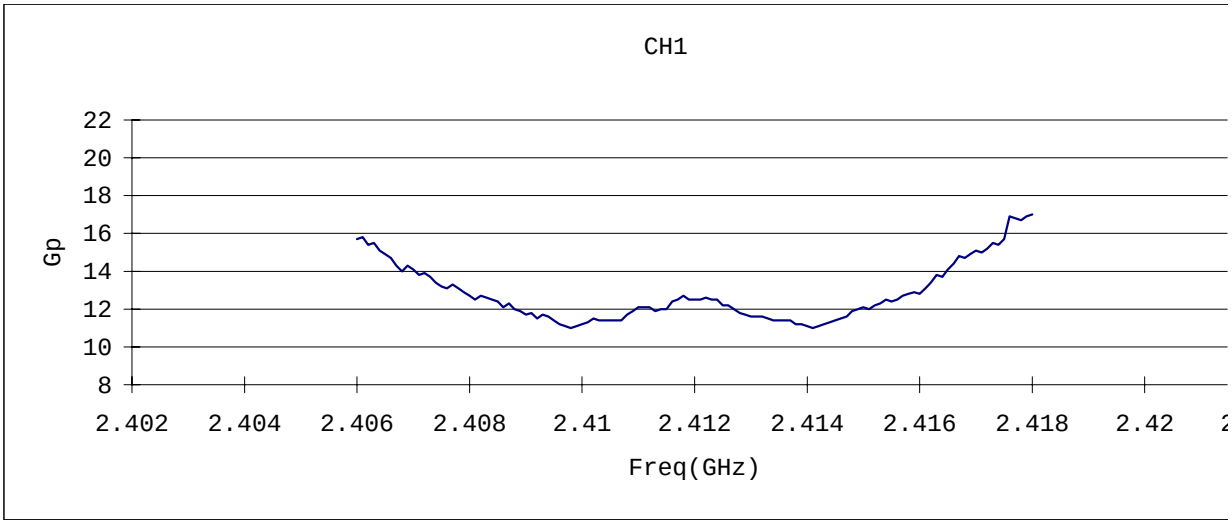
2.441	12.2	16.4	-6.2	2
2.4411	12.4	16.4	-6	2
2.4412	12.4	16.4	-6	2
2.4413	12.6	16.4	-5.8	2
2.4414	12.7	16.4	-5.7	2
2.4415	13	16.4	-5.4	2
2.4416	12.8	16.4	-5.6	2
2.4417	13	16.4	-5.4	2
2.4418	13.1	16.4	-5.3	2
2.4419	13.1	16.4	-5.3	2
2.442	13.4	16.4	-5	2
2.4421	13.7	16.4	-4.7	2
2.4422	13.9	16.4	-4.5	2
2.4423	14	16.4	-4.4	2
2.4424	14.3	16.4	-4.1	2
2.4425	13.9	16.4	-4.5	2
2.4426	14.4	16.4	-4	2
2.4427	14.7	16.4	-3.7	2
2.4428	15	16.4	-3.4	2
2.4429	14.8	16.4	-3.6	2
2.443	15.2	16.4	-3.2	2

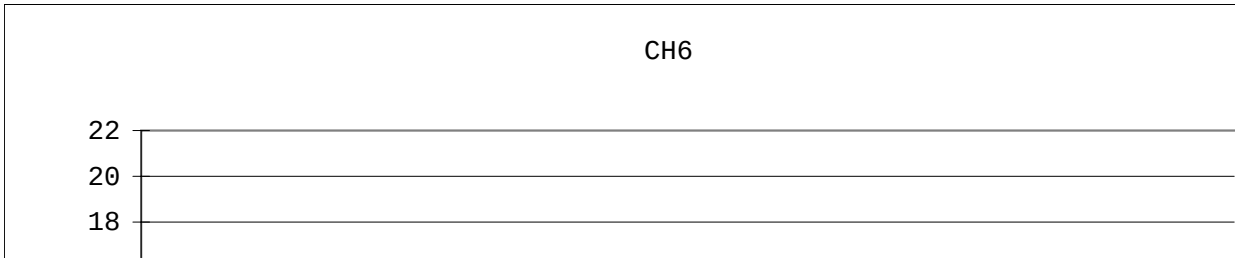
11 Mbps CHANNEL 11 Processing Gain				
			Gp=(S/N)o+Mj+Lsys	
Freq.	**Gp**	**(S/N)o**	**Mj=J/S**	**Lsys**
(GHz)	**(dB)**	**(dB)**	**(dB)**	**(dB)**
2.456	15.3	16.4	-3.1	2
2.4561	15.5	16.4	-2.9	2
2.4562	15.2	16.4	-3.2	2
2.4563	15	16.4	-3.4	2
2.4564	14.9	16.4	-3.5	2
2.4565	14.7	16.4	-3.7	2
2.4566	14.8	16.4	-3.6	2
2.4567	14.9	16.4	-3.5	2
2.4568	14.7	16.4	-3.7	2
2.4569	14.3	16.4	-4.1	2

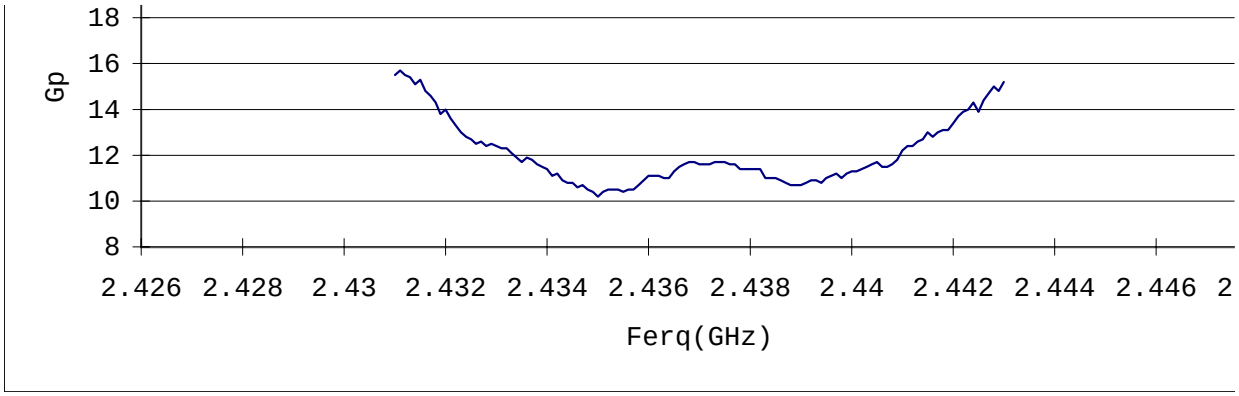
2.457	14.6	16.4	-3.8	2
2.4571	14.4	16.4	-4	2
2.4572	14.1	16.4	-4.3	2
2.4573	13.9	16.4	-4.5	2
2.4574	13.7	16.4	-4.7	2
2.4575	13.8	16.4	-4.6	2
2.4576	13.3	16.4	-5.1	2
2.4577	13.5	16.4	-4.9	2
2.4578	13.4	16.4	-5	2
2.4579	13.2	16.4	-5.2	2
2.458	13	16.4	-5.4	2
2.4581	13.2	16.4	-5.2	2
2.4582	13.1	16.4	-5.3	2
2.4583	13	16.4	-5.4	2
2.4584	12.9	16.4	-5.5	2
2.4585	13	16.4	-5.4	2
2.4586	13	16.4	-5.4	2
2.4587	12.9	16.4	-5.5	2
2.4588	12.8	16.4	-5.6	2
2.4589	12.6	16.4	-5.8	2
2.459	12.7	16.4	-5.7	2
2.4591	12.7	16.4	-5.7	2
2.4592	12.8	16.4	-5.6	2
2.4593	12.5	16.4	-5.9	2
2.4594	12.1	16.4	-6.3	2
2.4595	10.9	16.4	-7.5	2
2.4596	10.6	16.4	-7.8	2
2.4597	10.8	16.4	-7.6	2
2.4598	10.5	16.4	-7.9	2
2.4599	10.3	16.4	-8.1	2
2.46	10.1	16.4	-8.3	2
2.4601	10.1	16.4	-8.3	2
2.4602	10.2	16.4	-8.2	2
2.4603	10.2	16.4	-8.2	2
2.4604	10.2	16.4	-8.2	2
2.4605	10.1	16.4	-8.3	2
2.4606	10.1	16.4	-8.3	2
2.4607	10.1	16.4	-8.3	2
2.4608	10.3	16.4	-8.1	2
2.4609	10.5	16.4	-7.9	2
2.461	10.8	16.4	-7.6	2
2.4611	10.8	16.4	-7.6	2
2.4612	10.8	16.4	-7.6	2
2.4613	10.7	16.4	-7.7	2
2.4614	10.8	16.4	-7.6	2
2.4615	11	16.4	-7.4	2
2.4616	11.1	16.4	-7.3	2
2.4617	11.4	16.4	-7	2

2.4618	11.4	16.4	-7	2
2.4619	11.4	16.4	-7	2
2.462	11.3	16.4	-7.1	2
2.4621	11.6	16.4	-6.8	2
2.4622	11.6	16.4	-6.8	2
2.4623	11.8	16.4	-6.6	2
2.4624	11.9	16.4	-6.5	2
2.4625	11.9	16.4	-6.5	2
2.4626	11.9	16.4	-6.5	2
2.4627	11.9	16.4	-6.5	2
2.4628	11.6	16.4	-6.8	2
2.4629	11.6	16.4	-6.8	2
2.463	11.4	16.4	-7	2
2.4631	11.4	16.4	-7	2
2.4632	11.3	16.4	-7.1	2
2.4633	11.2	16.4	-7.2	2
2.4634	11	16.4	-7.4	2
2.4635	11	16.4	-7.4	2
2.4636	11	16.4	-7.4	2
2.4637	10.9	16.4	-7.5	2
2.4638	10.9	16.4	-7.5	2
2.4639	10.8	16.4	-7.6	2
2.464	10.5	16.4	-7.9	2
2.4641	10.3	16.4	-8.1	2
2.4642	10.4	16.4	-8	2
2.4643	10.2	16.4	-8.2	2
2.4644	10.7	16.4	-7.7	2
2.4645	10.8	16.4	-7.6	2
2.4646	10.9	16.4	-7.5	2
2.4647	11.1	16.4	-7.3	2
2.4648	11.3	16.4	-7.1	2
2.4649	11.5	16.4	-6.9	2
2.465	11.9	16.4	-6.5	2
2.4651	12.1	16.4	-6.3	2
2.4652	12.4	16.4	-6	2
2.4653	12.5	16.4	-5.9	2
2.4654	12.3	16.4	-6.1	2
2.4655	12	16.4	-6.4	2
2.4656	11.7	16.4	-6.7	2
2.4657	11.5	16.4	-6.9	2
2.4658	11.9	16.4	-6.5	2
2.4659	12	16.4	-6.4	2
2.466	12.2	16.4	-6.2	2
2.4661	12.4	16.4	-6	2
2.4662	12.3	16.4	-6.1	2
2.4663	12.5	16.4	-5.9	2
2.4664	12.8	16.4	-5.6	2
2.4665	12.9	16.4	-5.5	2

2.4666	13.7	16.4	-4.7	2
2.4667	14.2	16.4	-4.2	2
2.4668	14.8	16.4	-3.6	2
2.4669	14.9	16.4	-3.5	2
2.467	14.4	16.4	-4	2
2.4671	14.9	16.4	-3.5	2
2.4672	15.1	16.4	-3.3	2
2.4673	15.8	16.4	-2.6	2
2.4674	15.4	16.4	-3	2
2.4675	15.9	16.4	-2.5	2
2.4676	16.5	16.4	-1.9	2
2.4677	16.8	16.4	-1.6	2
2.4678	16.9	16.4	-1.5	2
2.4679	16.3	16.4	-2.1	2
2.468	16.9	16.4	-1.5	2



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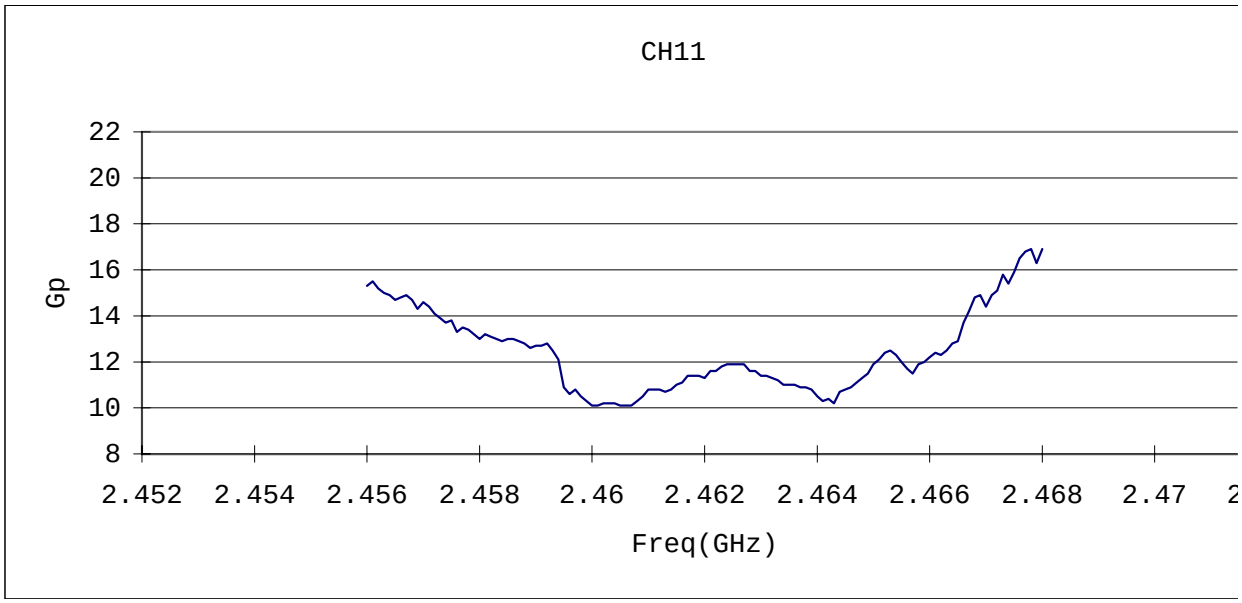
Ferq(GHz)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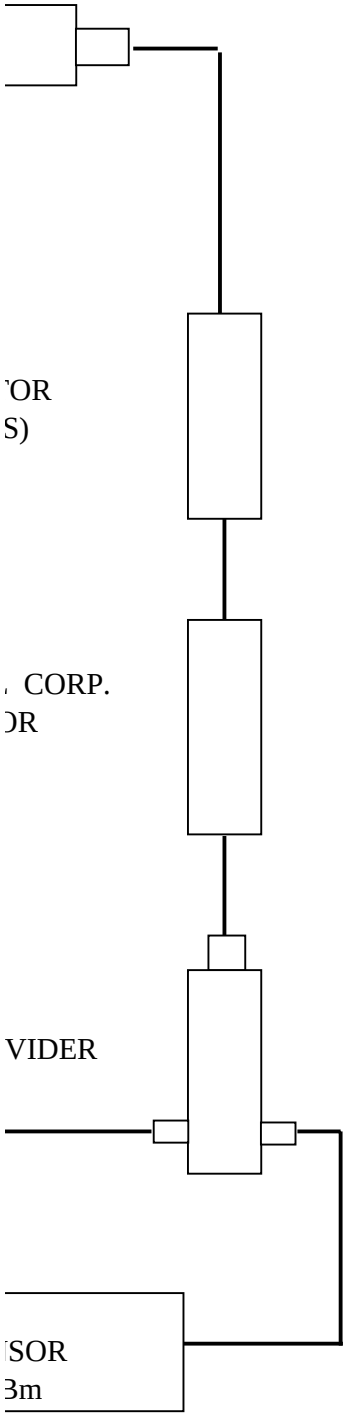
Freq(GHz)


'OR
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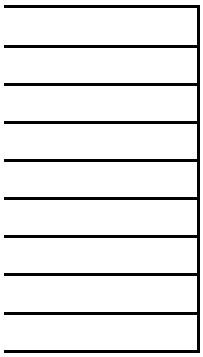

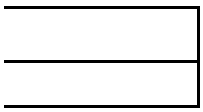

Jammer (dBm)
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Jammer
(dBm)
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Jammer
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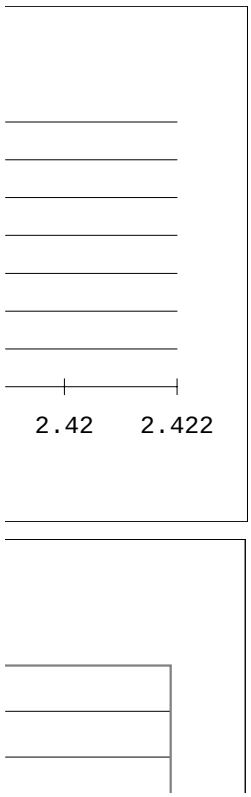

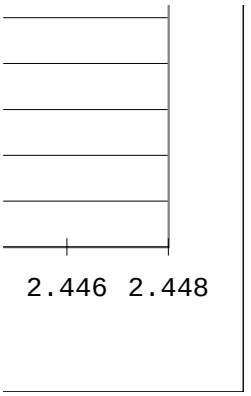
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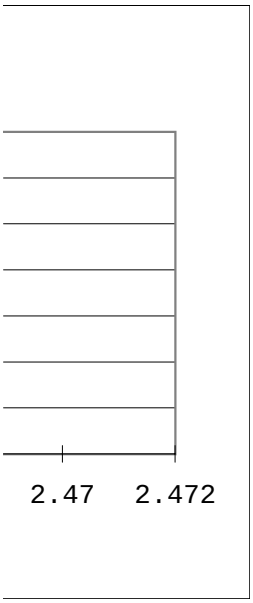
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2.472