

Pete's AC router shoot-out

[ref](#)

Notes:

1. An Asus PCE-AC68 computer PCE wireless card was used for testing.
2. Pete moved the routers to various locations (A, B, C, D, E) whilst keeping the computer and Asus PCE-AC68 stationary.
3. The results posted are considered the best case scenario as the PCE-AC68 is the best PCE wireless adapter available at the moment, for both throughput and connectivity / range. Use of any other PCE adapters or usb adapter will give results lower than what Pete has recorded here. Results using different adapters will still be comparative.
4. **Green** shading indicates 'Best Router in Room'.

RSSI Results dBm

Router 2.4Ghz	A 2.4 3m	B 2.4 3m 1r	C 2.4 10m 2r	D 2.4 15m 3r	E 2.4 24m
dlink dir-880L	-25	-32	-37	-44	-66
tp link archer C9	-25	-36	-34	-48	-55
tp link archer D9	-25	-32	-37	-48	-55
asus rt-ac87u	-25	-31	-33	-45	-69
dlink dsl-2900al	-25	-37	-36	-51	-57
dlink dir-890L	-25	-40	-40	-48	-66
asus rt-ac68u	-25	-42	-44	-45	-66
asus dsl-ac68u	-25	-34	-37	-45	-61
netgear r7000	-25	-36	-43	-47	-59
fritzbox 7490	-43	-46	-49	-62	-75
netgear wndr3800 n	-34	-46	-50	-57	-70

Router 5Ghz	A 5G 3m	B 5G 3m 1r	C 5G 10m 2r	D 5G 15m 3r	E 2.4 24m
dlink dir-880L	-28	-41	-48	-60	-74
tp link archer C9	-25	-43	-48	-61	-77
tp link archer D9	-25	-48	-50	-59	-76
asus rt-ac87u	-30	-41	-41	-58	-77
dlink dsl-2900al	-29	-47	-47	-60	-73
dlink dir-890L low	-27	-46	-51	-56	-72
dlink dir-890L high	-25	-45	-46	-61	-73
asus rt-ac68u	-29	-44	-50	-56	-73
asus dsl-ac68u	-25	-41	-43	-58	-69
netgear r7000	-25	-37	-41	-53	-66
fritzbox 7490	-30	-44	-42	-57	-75
netgear wndr3800 n	-42	-46	-55	-71	-81

Sync Rate Results Mbps (tba)

Router 2.4Ghz	A - 3m	C - 10m 2r	E - 24m
dlink dir-880L	600	405	243
tp link archer C9	540	540	216
tp link archer D9	468	324	216
asus rt-ac87u	540	405	324
dlink dsl-2900al	600	600	162
dlink dir-890L	288.5	260	173
asus rt-ac68u	486	405	242
asus dsl-ac68u	486	405	216
netgear r7000	540	364.5	270
fritzbox 7490	300	324	108
netgear wndr3800 n	300	130	130

*no ability to disable obss co-existence

Router 5Ghz	A - 3m	C - 10m 2r	E - 24m
dlink dir-880L	1300	866.5	234
tp link archer C9	1100	877.5	175
tp link archer D9	1300	1000	117
asus rt-ac87u	1300	1000	175.5
dlink dsl-2900al	1300	1100	263
dlink dir-890L low	877.5	702	87.5
dlink dir-890L high	1300	1000	175.5
asus rt-ac68u	1300	1300	234
asus dsl-ac68u	1300	1000	175
netgear r7000	1100	877.5	234
fritzbox 7490 low	877.5	585	58.5
netgear wndr3800 n	243	216	270

does not have upper channel selection

Read Throughput Mbps

Router 2.4Ghz	A - 3m	C - 10m 2r	E - 24m
dlink dir-880L	25.5	28.5	8.05
tp link archer C9	26.5	29.5	8.5
tp link archer D9	24.5	21.9	8.1
asus rt-ac87u	32.5	23.6	6.8
dlink dsl-2900al	26.2	19.9	5.7
dlink dir-890L	17.5	19.5	5.92
asus rt-ac68u	25	23.3	5.32
asus dsl-ac68u	25.2	19.1	9.45
netgear r7000	25.9	25.5	13.2
fritzbox 7490	23.5	19.3	0
netgear wndr3800 n	18.2	8.6	5.84

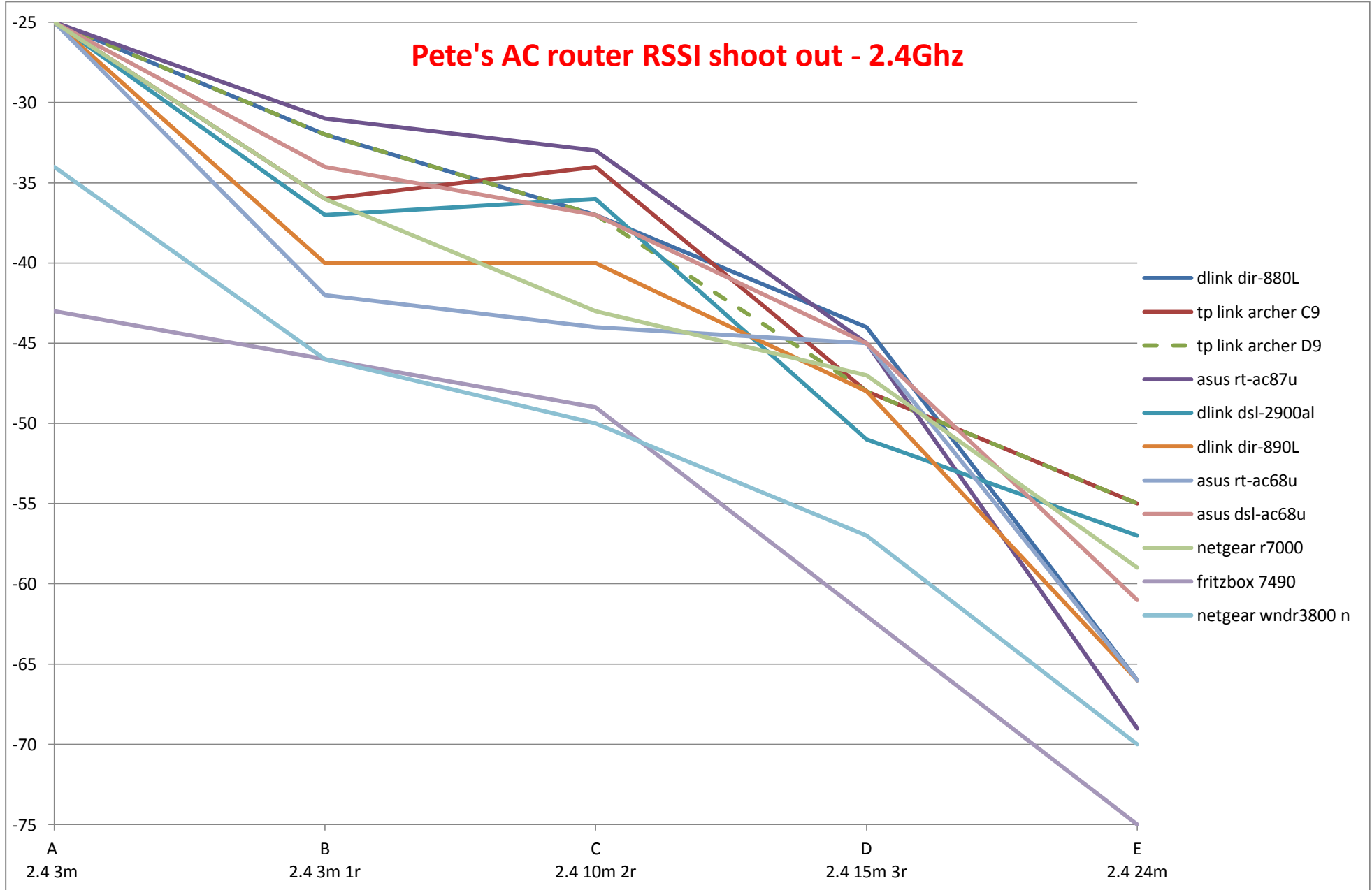
Router 5Ghz	A - 3m	C - 10m 2r	E - 24m
dlink dir-880L	54.7	51.1	21.1
tp link archer C9	54.1	47.9	20.5
tp link archer D9	44.4	53.5	15.2
asus rt-ac87u	57.5	51.5	14.3
dlink dsl-2900al	52.3	51.5	19.9
dlink dir-890L low	42.8	36.2	7.75
dlink dir-890L high	47.5	45.5	19.3
asus rt-ac68u	62.7	59.6	15.6
asus dsl-ac68u	55.2	48	21.9
netgear r7000	62.5	65.5	21
fritzbox 7490	48.5	40.5	10.5
netgear wndr3800 n	17.6	16.8	1.3

Write Throughput Mbps

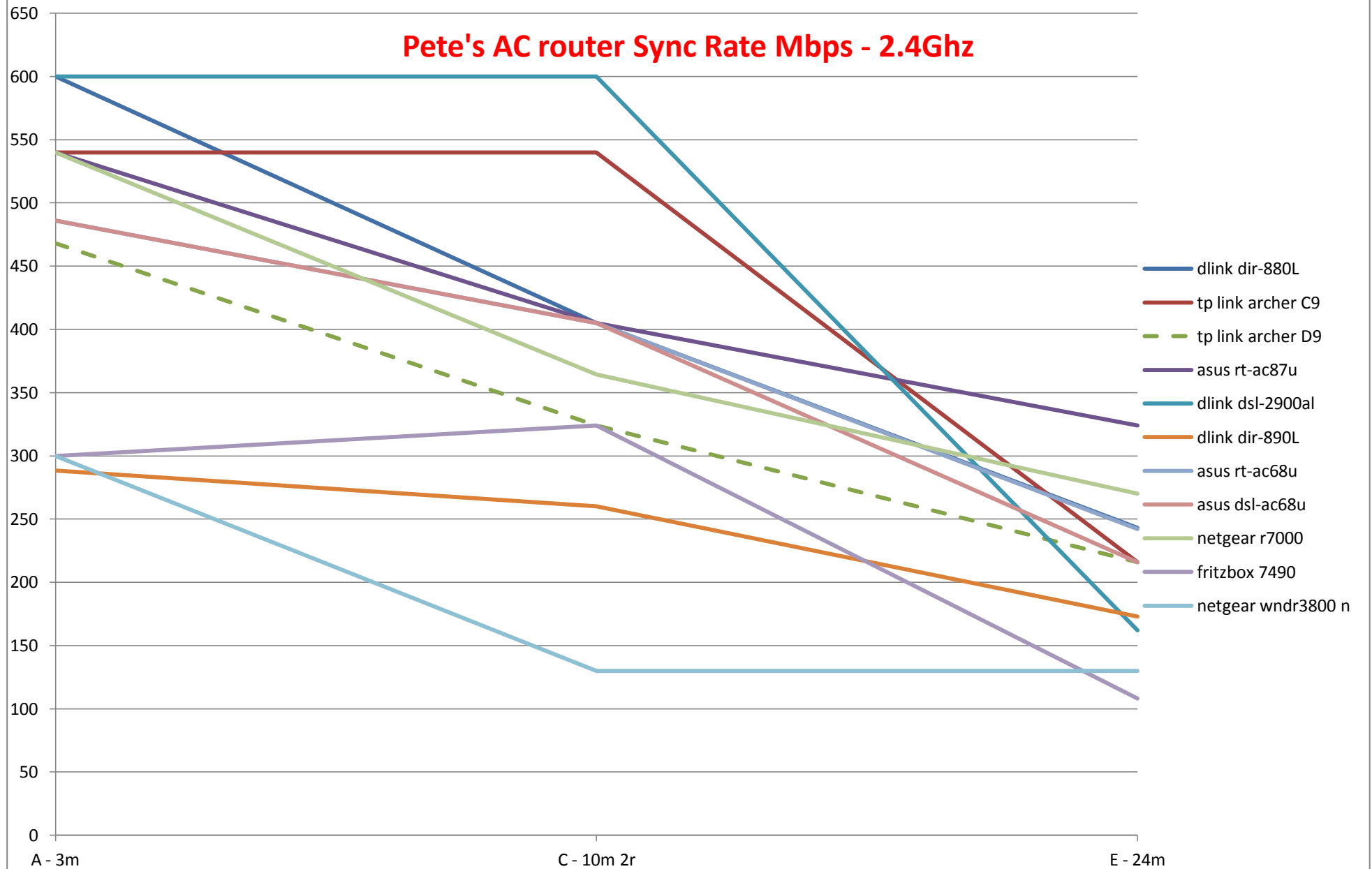
Router 2.4Ghz	A - 3m	C - 10m 2r	E - 24m
dlink dir-880L	20.5	21.1	9.2
tp link archer C9	21	19.3	8.7
tp link archer D9	20.5	17.2	8.5
asus rt-ac87u	21.5	20.3	11.5
dlink dsl-2900al	19.7	19.5	6.75
dlink dir-890L	15.5	15.4	8.7
asus rt-ac68u	20.3	19.5	8.32
asus dsl-ac68u	20.1	18.2	10.6
netgear r7000	22.9	19.3	11.9
fritzbox 7490	20.5	18.3	0
netgear wndr3800 n	18.5	8.8	4.2

Router 5Ghz	A - 3m	C - 10m 2r	E - 24m
dlink dir-880L	34.5	32.9	15.5
tp link archer C9	35.4	33.9	15.8
tp link archer D9	33.2	34.5	9.2
asus rt-ac87u	32	31.5	12.6
dlink dsl-2900al	32.3	33.4	17.5
dlink dir-890L low	29.7	28.5	6.08
dlink dir-890L high	32.5	32.1	15.1
asus rt-ac68u	39.6	39.6	17.5
asus dsl-ac68u	31.2	30.5	14.8
netgear r7000	39.4	39.6	17.4
fritzbox 7490	27.6	26.2	6.45
netgear wndr3800 n	19.2	14.1	1.29

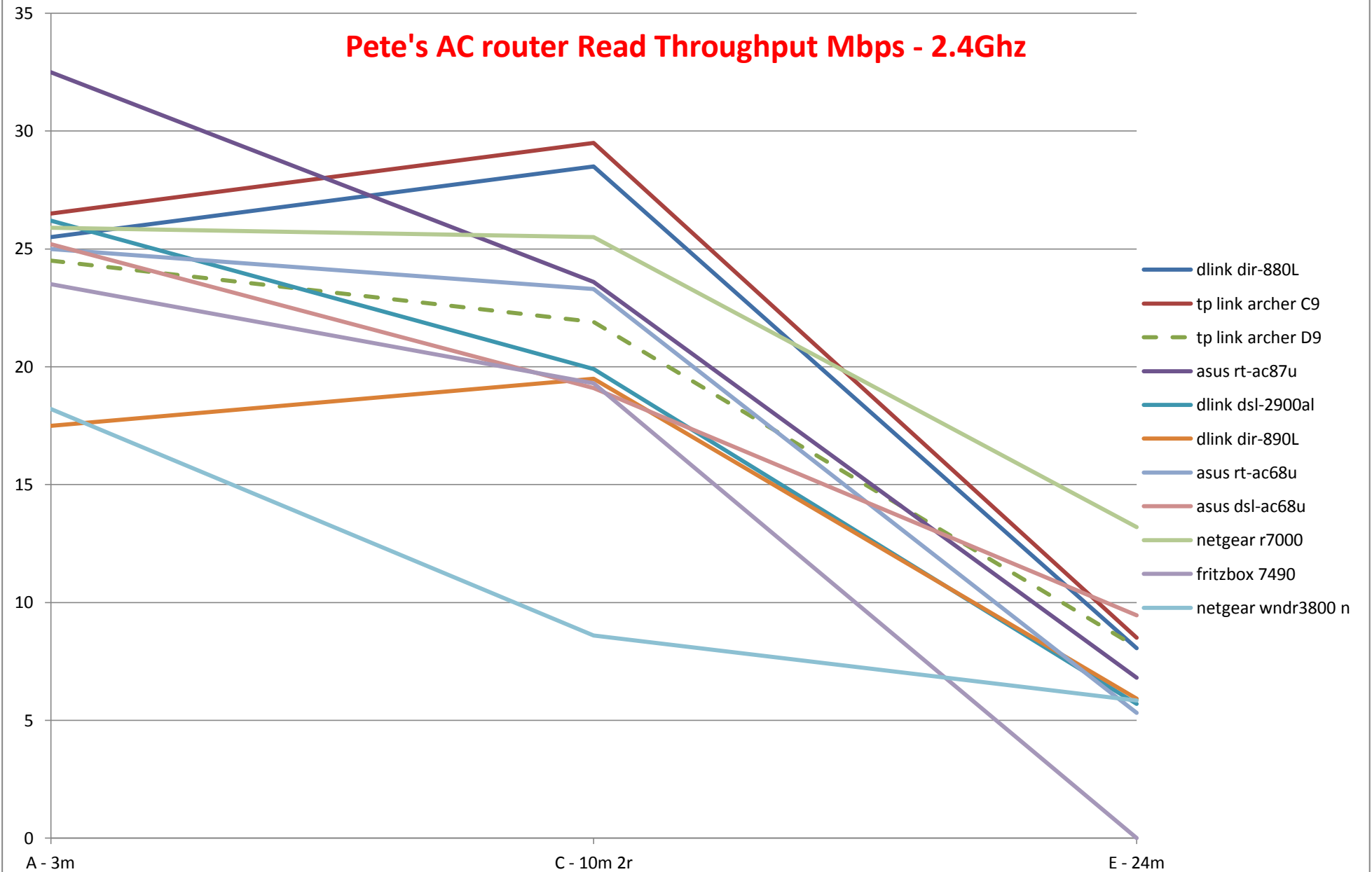
Pete's AC router RSSI shoot out - 2.4Ghz



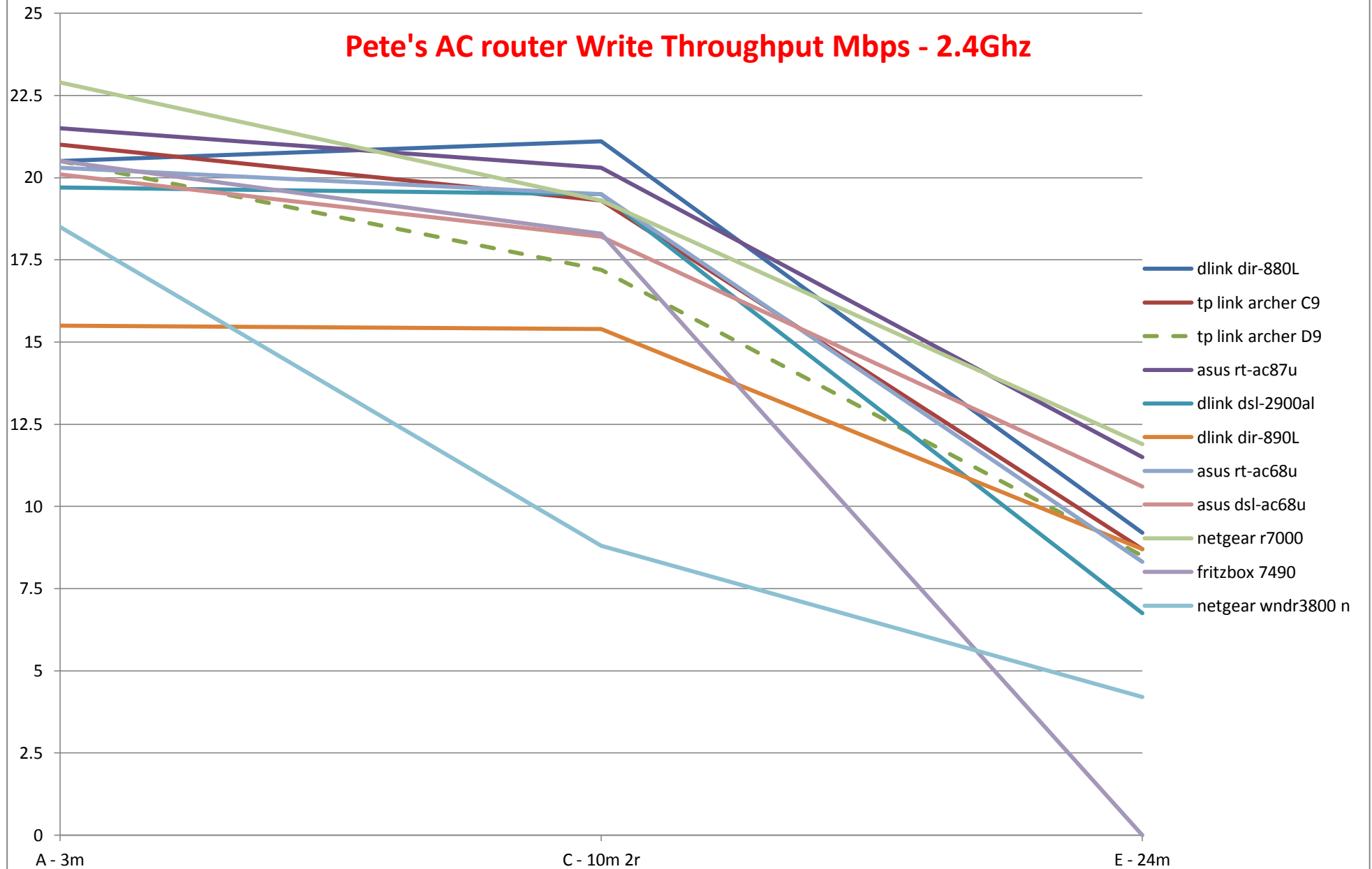
Pete's AC router Sync Rate Mbps - 2.4Ghz



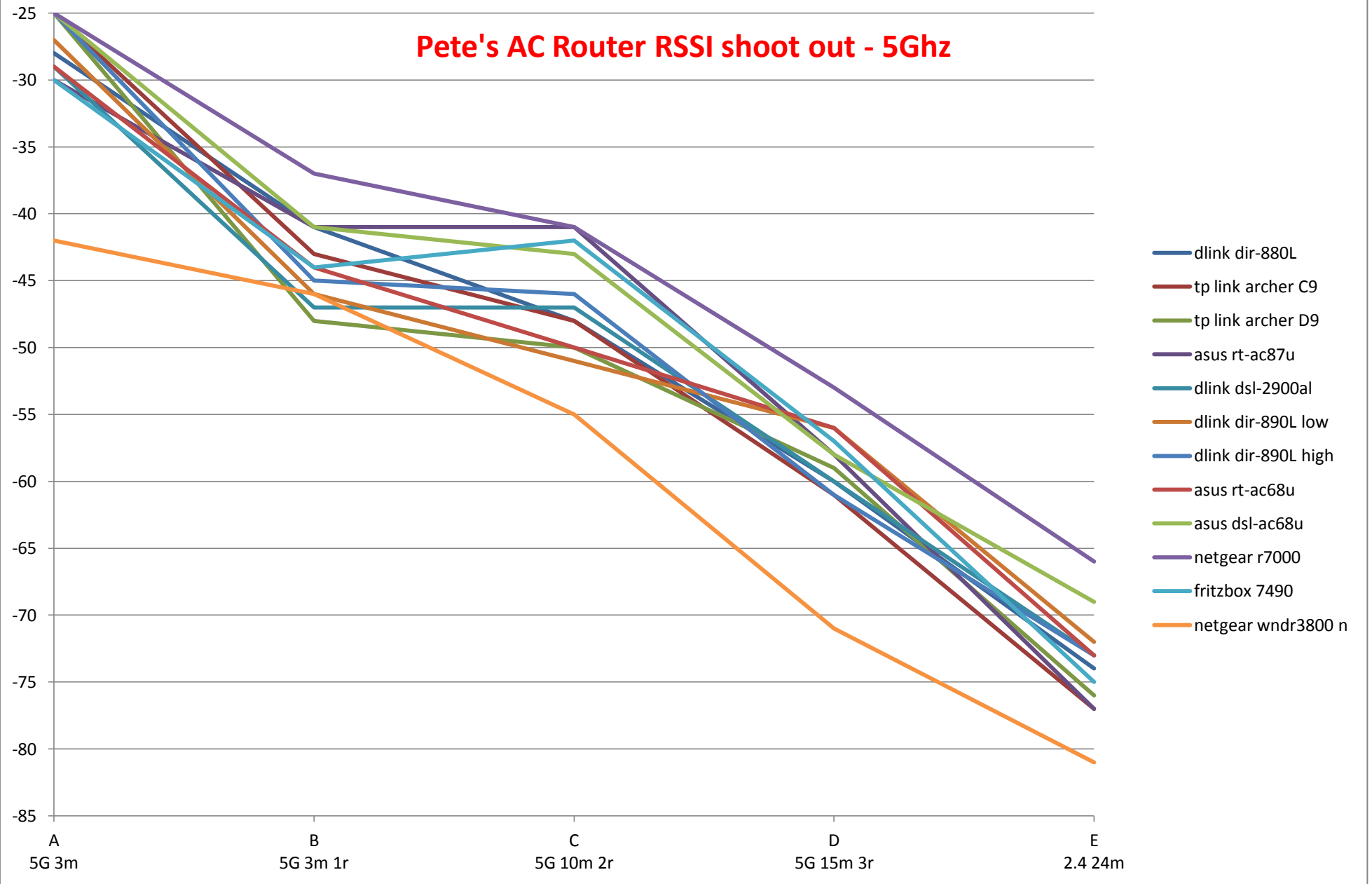
Pete's AC router Read Throughput Mbps - 2.4Ghz



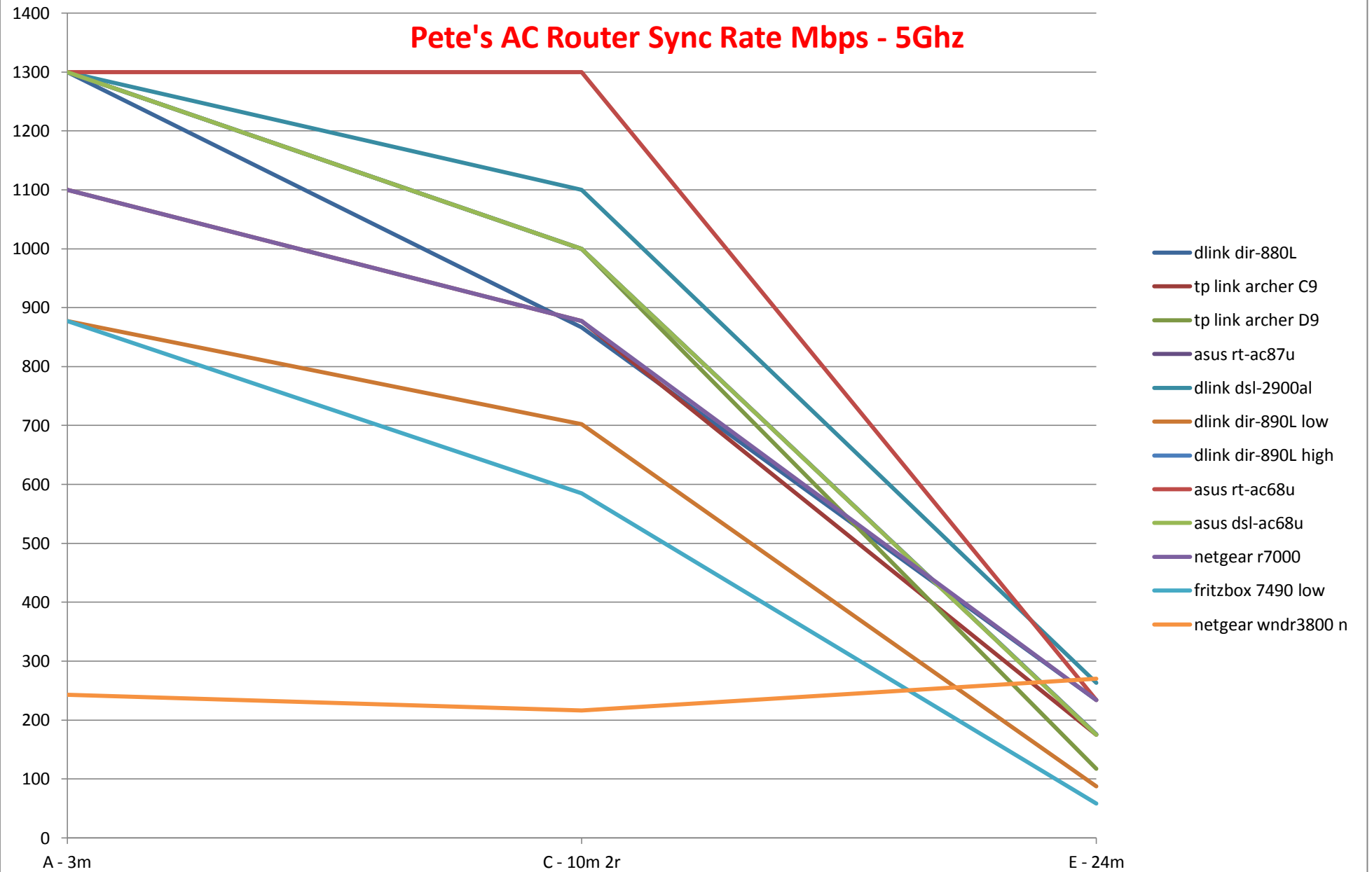
Pete's AC router Write Throughput Mbps - 2.4Ghz



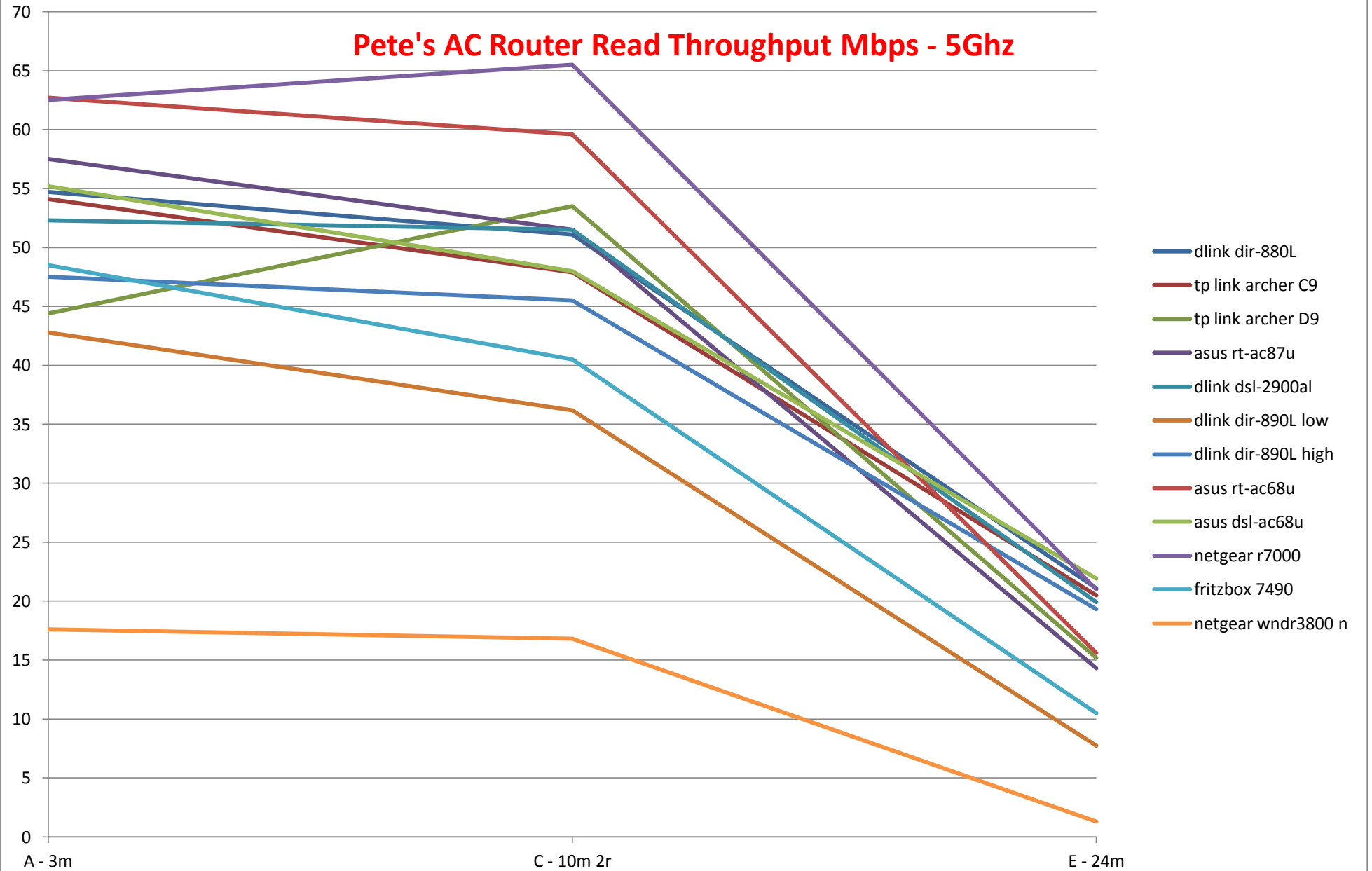
Pete's AC Router RSSI shoot out - 5Ghz



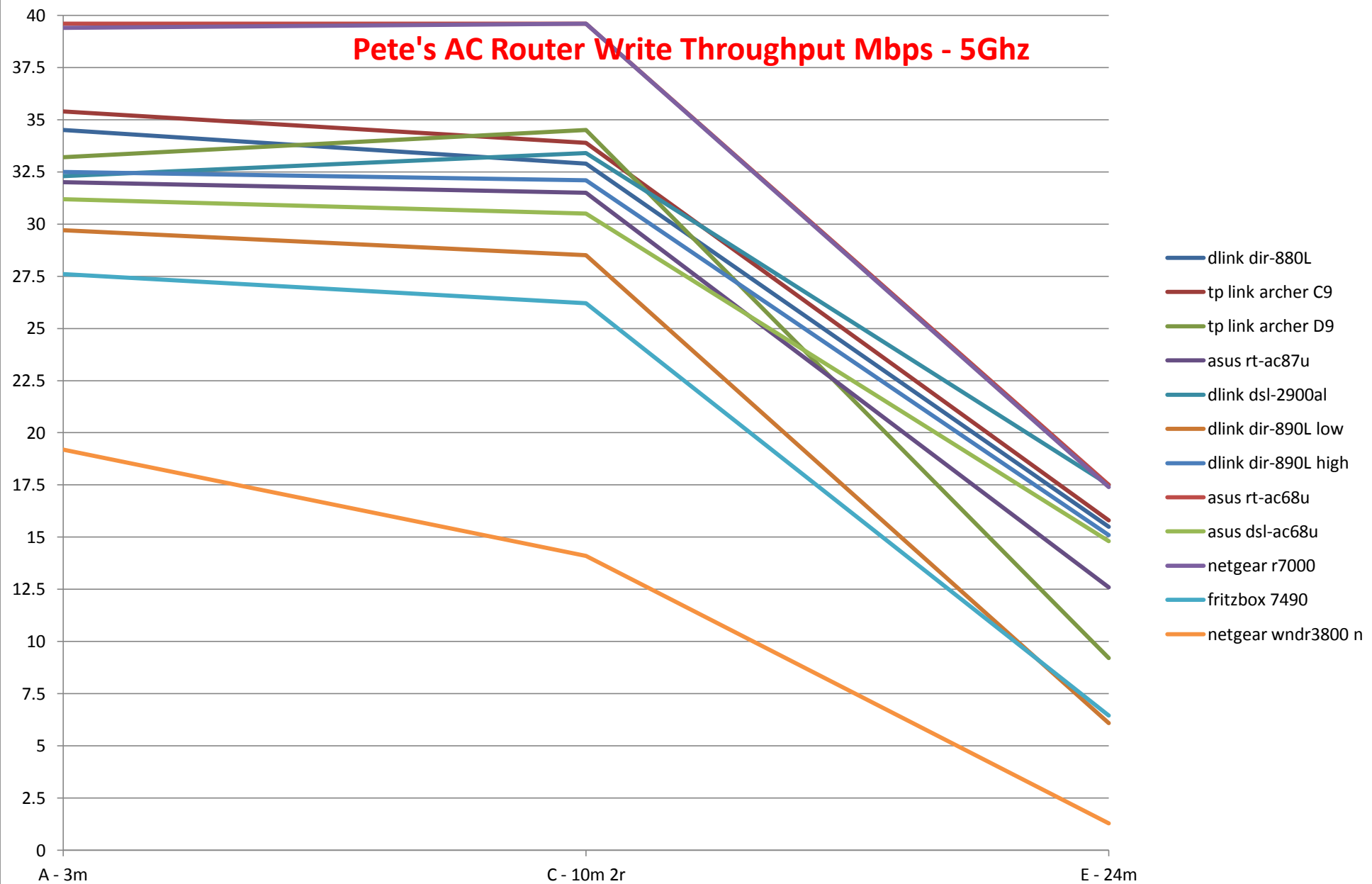
Pete's AC Router Sync Rate Mbps - 5Ghz



Pete's AC Router Read Throughput Mbps - 5Ghz



Pete's AC Router Write Throughput Mbps - 5Ghz



Home and Router Test Location Plan



Note the brick wall partition

E - 24m

E - 24m