

Abthorpe Broadband Association Ltd.

Bringing Broadband to the community since 2003.

Radiation surveys on 5GHz wireless transmissions

Surveys carried out on 23/02/2013.

Present, Peter Watkins (Technical director, ABbA); Mike Streten (Governor, St Loys); Eric Malcomson (chairman, ABbA)

Wappenham – Atkin’s house – one sector aerial pointing at Abthorpe, one dish pointing at Lois Weedon. 23/02/2013

Height above ground : 8 to 9m

Distance along ground	$\mu\text{W}/\text{m}^2$	V/m
10m	100	0.194
20m	15	0.075
50m	3	0.033

Abthorpe – Fenwick’s house – one sector aerial pointing at Wappenham. 23/02/2013

Height above ground : 9 to 10m

Distance along ground	$\mu\text{W}/\text{m}^2$	V/m
0m (directly under)	45	0.13
10m	24	0.09
20m	25	0.097
40m	4	0.038

Lois Weedon – St Loys with a temporary dish aerial at first-floor level above the playground pointing at Wappenham. 23/02/2013

Height above ground : 5m (note final proposal is at 12m high)

Distance along ground	$\mu\text{W}/\text{m}^2$	V/m	V/m predicted with aerials at 12m
3m	1000	0.614	0.12
5m	400	0.388	0.10
10m	100	0.194	0.08
15m	80	0.174	0.04

Exerpts:

[International Commission on Non-Ionising Radiation Protection ICNIRP](#)

“general public continuous exposure levels of not more than 61V/m”

[Parliamentary Assembly of the Council of Europe \(PACE\) resolution 1815 \(27 May 2011\)](#)

“8.2.1. set preventive thresholds for levels of long-term exposure to microwaves in all indoor areas, in accordance with the precautionary principle, not exceeding 0.6 volts per metre, and in the medium term to reduce it to 0.2 volts per metre; “