

Walk /Drive RF coverage testing

BENEFIT FROM OUR 30 YEARS OF EXPERIENCE

There is a growing awareness of the social and commercial benefits of providing improved radio coverage and related radio network service levels in public and key community locations. These include:

Radio signal strength standards are emerging and there is a growing expectation held by the public safety organisations, and enterprise users that the radio networks that they rely on will perform to a satisfactory standard. Gibson Quai International (GQI) provides walk/drive testing of public and community spaces to provide an independent view of actual radio field strength in a building or public/community space.

- indoor or in-building;
- public spaces;
- shopping centres;
- health and education campuses;
- pedestrian/road/rail tunnels;
- airport terminals;
- multi-storey buildings and
- Metropolitan, regional and remote areas.

GQI has established a RF testing division which employs specialist radio engineers who plan and implement walk or drive tests to collect data on the radio field strength within a specified space typically from multiple sources operating at different frequencies.



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For walk tests we typically load digitized drawings of the floor plans into a walk test mobile computer that the walk tester carries on their back or by hand. The walk tester utilises the digitised floor plan and marks his position on a regular basis as he moves around the building. The test equipment records his position and measures the selected signal strength whenever the walk tester marks his position. The output is typically a plot of signal strengths mapped onto the digitized drawing or map.

For drive tests we perform a similar plotting of the signal strengths of the selected channels. The system also includes a GPS which enables the signal strength to be plotted onto maps.

Before we undertake any walk or drive test, we need to clearly understand what the test is for and what information or outcome is required. Then we design the test and select the equipment that will be required to implement the test and deliver the required outcome. Once we have performed the test, we review the plots or drawings to ensure that they are fit for purpose before delivery to our client.





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