

4G will soon be broadcasting in the UK at the 800MHz frequency causing interference for thousands of households who watch Freeview™ TV channels via an aerial.

Labgear now have a range of high performance CH59, LTE800 signal filters which block these signals. These filters have passed strict government tests and include filters that are at800™ approved.



F4GA

Approved by at800™ in-line CH59 filter with plastic body and separate coax TV connection lead



F4GC

In-line CH59/LTE800 filter with coax connections, integral coax lead and plastic body



F4GF

In-line CH59/LTE800 filter with F connections and die cast metal body



F4GO

CH59/LTE800 filter with weather-proof housing for outside use, ideal for masthead mounting

Why filters are needed and why Labgear filters are ideal for the job

The Problem

Freeview™ TV is broadcast across Ch21 to Ch60. In 2008 the standard for 4th Generation Long Term Evolution (4G LTE800) devices was agreed as Ch61 and 62. This leaves very little space between the TV and 4G operating bands and a higher risk of interference.

Ofcom estimate that up to 900,000 households which use Freeview as their primary service will be affected by interference to their DTT reception because they are close to a mobile mast carrying 4G and are either:

Receiving DTT on Ch59 or 60 and getting adjacent channel interference (approx 37%)

Or they have a UHF amplifier (or 5-wire multi-switch) in their TV system (approx 63%)

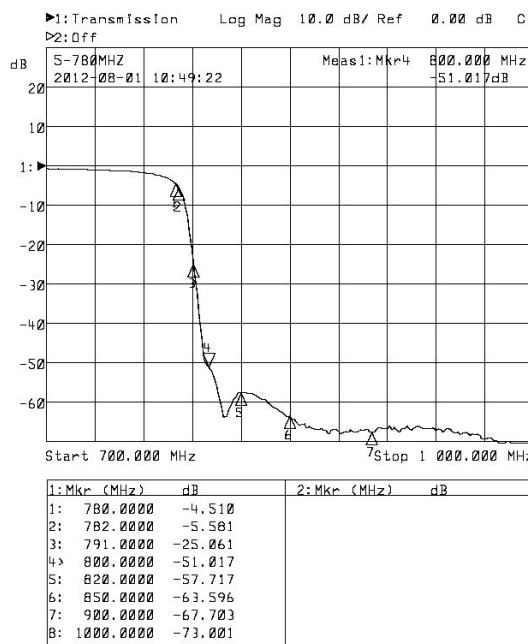
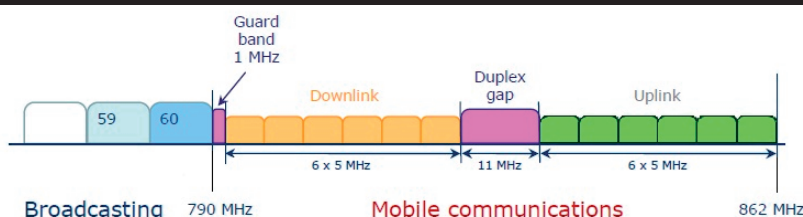
The Solution

To prevent 4G LTE800 interference:

- You need a filter with a sharp cross-over from the pass-band to the stop-band
- You need a filter with VERY high rejection across the full 4G LTE800 frequency range

Labgear 4G filters have been specifically designed to meet these requirements:

Pass frequency: 5-782MHz
Rejection frequency: 791-862MHz
(average rejection level -55dB)



Typical CH59 Filter Rejection Figures