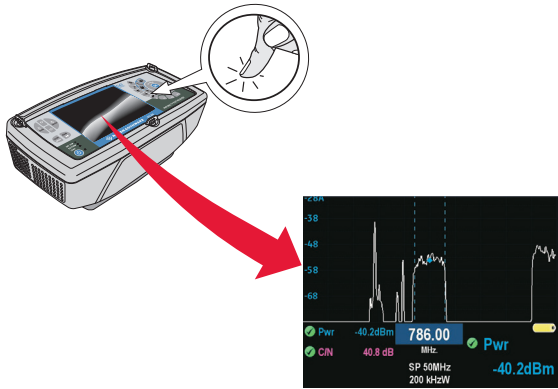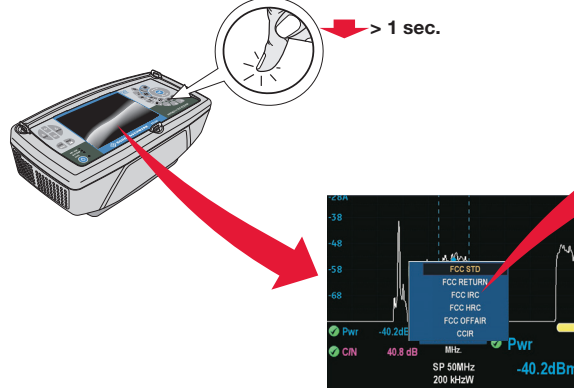*(Only before first use. The R&S®EFL110/210 will keep these settings)*

1 LOADING A CHANNEL PLAN *(only necessary if outside USA – default setting is FCC channel plan)*

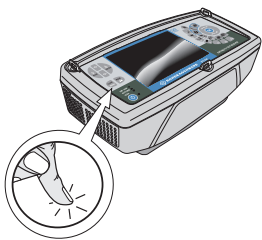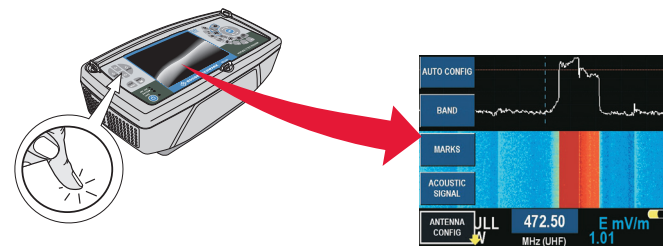**1** Press [3 📊] to switch to the spectrum analyzer mode

2 Press [CH 📊] for more than one second

> 1 sec.

Use **OK** to select the channel plan

Select FCC for USA and CCIR for Europe

2 ANTENNA CONFIGURATION

1 Press **CLEAR MENU** to make menu visible

2 With [⇧⇩] select **LEAKAGE->ANTENNA CONFIG.**
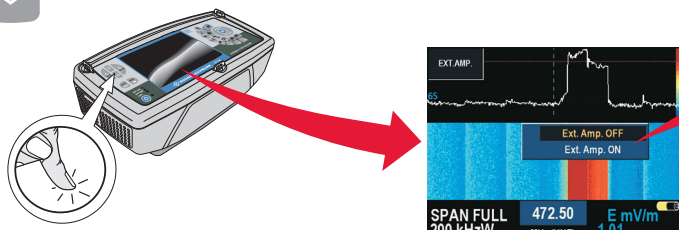
3 With [⇧⇩] select **ANTENNA**
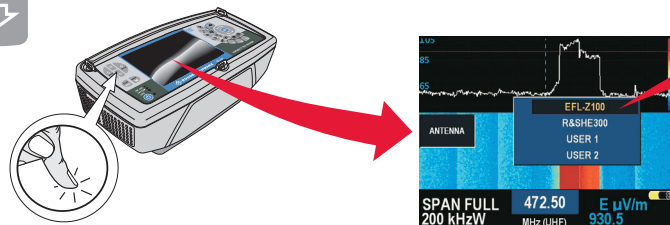
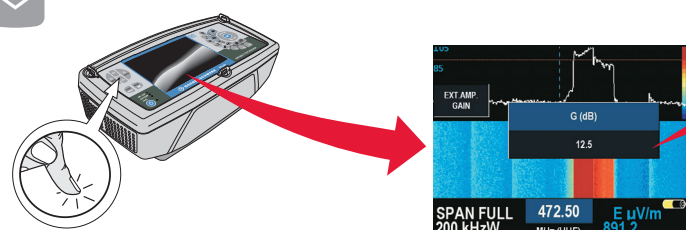Use **OK** to select **your antenna** from the list

4 With [⇧⇩] select **EXT. AMP.**

Use **OK** to select your **Ext.Amp.ON** from the list

Default for R&S®EFL-Z100 is EXT. AMP. ON

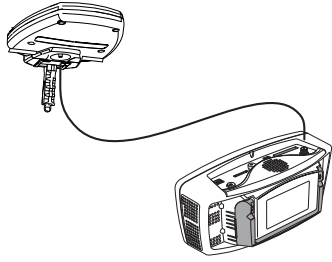**5** With [⇧⇩] select **EXT. AMP. GAIN**

Use **OK** to select the **gain of your antenna**
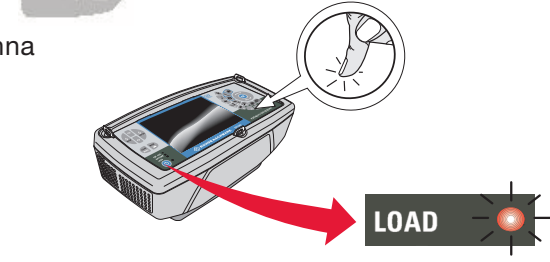
Default for R&S®EFL-Z100 is Gain=12.5dB

1 GETTING READY

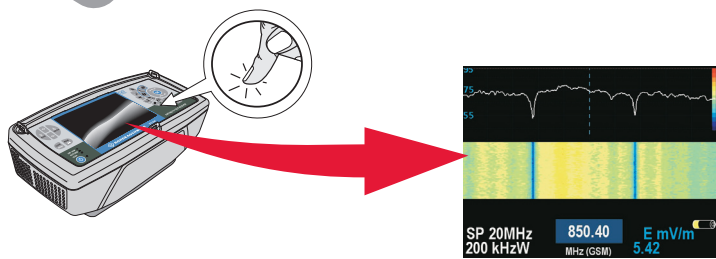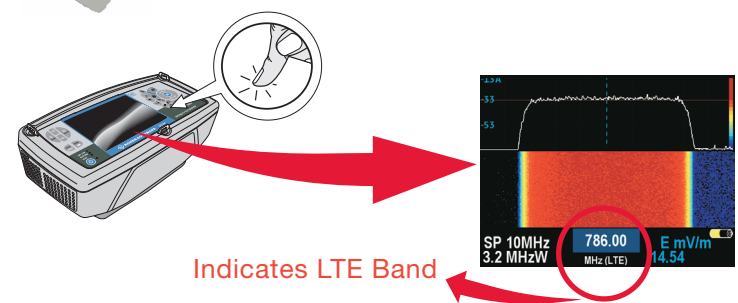**1** Connect the antenna to the RF input of the R&S®EFL110/210:

2 Press **F2** to switch on the amplifier of the R&S®EFL-Z100 antenna

LOAD

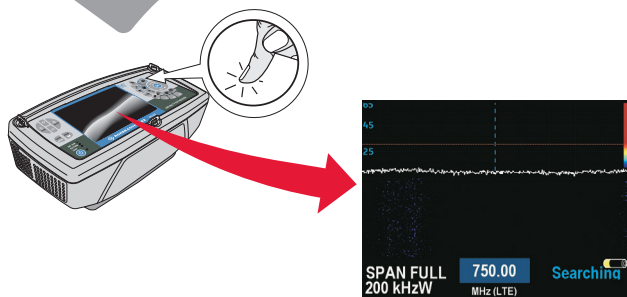**3** Press to switch to the leakage detection mode

SP 20MHz
200 kHzW   850.40   E mV/m
MHz (GSM)   5.42

4 Press **2** multiple times until the LTE band is active

SP 10MHz
3.2 MHzW   786.00   E mV/m
MHz (LTE)   14.54

Indicates LTE Band

2 SEARCHING FOR LEAKAGE

1 Press **6** to activate the Search Leakage Mode

SPAN FULL
200 kHzW   750.00   Searching
MHz (LTE)

2 Move the antenna (or drive your car) until the R&S®EFL110/210 detects a leak:

OK: center
(777MHz)   750.00   Cable leak
MHz (LTE)   detected!

Indicates Cable Leakage!
and soud an alarm
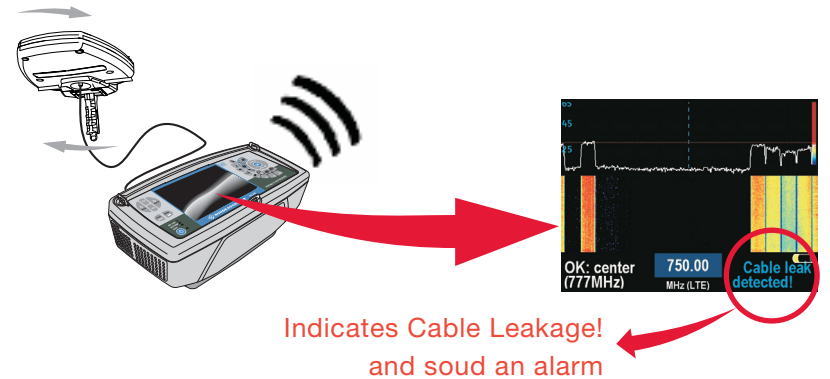
OPTIONAL: Press **F1** for the AUTO CONFIG. function.

It adjusts the screen for an optimum display.
This is useful after a significant change in power level.

OPTIONAL: Press **1 2** to activate the FRAME BEEP

The R&S®EFL110/210 sounds a beep every time the waterfall is refreshed.
Watch the waterfall after every beep in order not to miss anything

9 LOCALIZING THE LEAKAGE

1 After the alarm, press **OK** button. The R&S®EFL110/210 zooms ont the frequency of the leak and activates the tone generator function

SP 10MHz
18 kHzW   777.00   E µV/m
MHz (LTE)   13.7
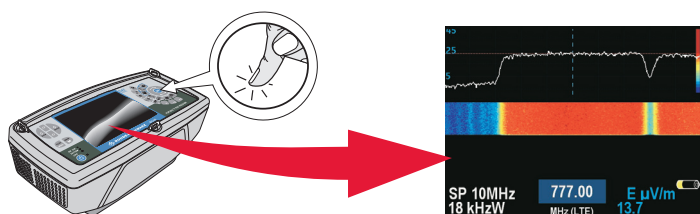
2 Move the antenna. The pitch of the tone change with the signal level. The highest pitch means thar the antenna is pointing at the leak.
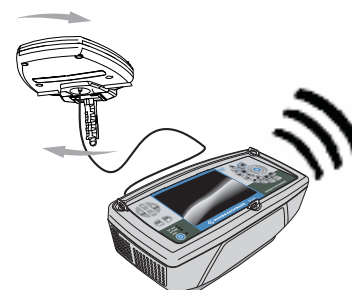
OPTIONAL: Press **OK** for >1 sec.

Use **OK** to adjust the threshold of the tone generator. The red dashed line should be higher than the highest signal peak.