



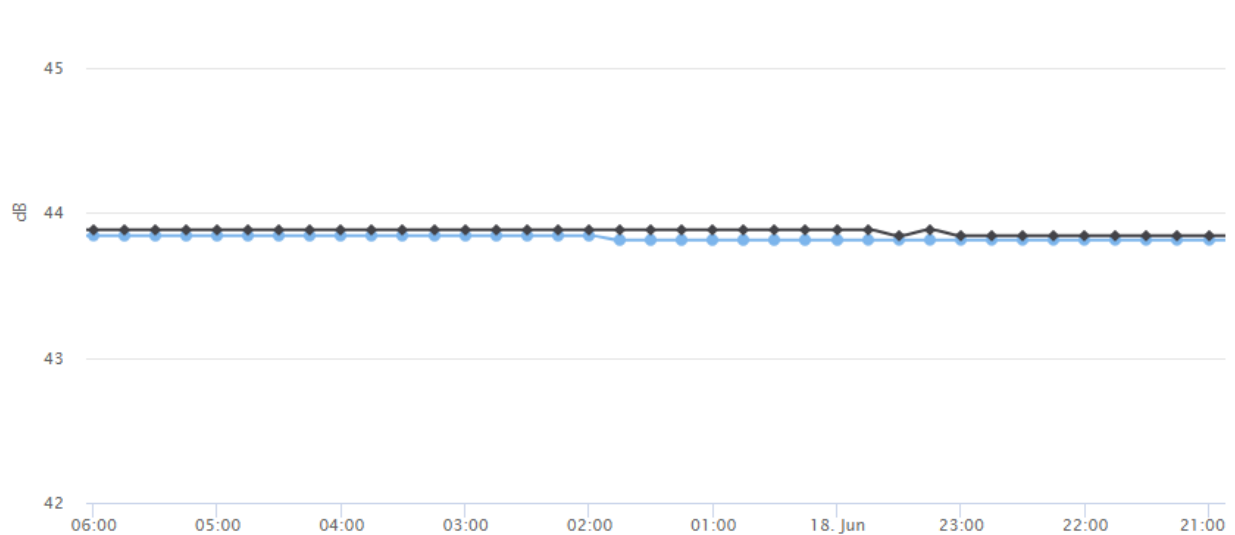
## iVIBE & iDB Antenna Placement

iVIBE and iDB make regular radio transmissions to report readings to AirQweb. These transmissions generally use the 4G cellular network and it is important that the 4G antenna is not placed too near the instrument or its sensitive microphone.

In particular, for the iVIBE *peili*, do not use the stubby antenna that connects directly to the instrument case. Use the magnetic whip antenna instead. This has a 2.5 metre cable and magnetic base. Both are supplied in the instrument kit.

To test your installation a shorting plug (provided in the instrument kit) can be connected to the BNC microphone connector. This should give a constant background reading of  $24 \pm 3$  dB.

The following traces ( $LA_{eq}$  and  $LA_{max}$ ) show the absence of RF pickup when measuring a 1 kHz, 150 micro Volt (44dBA) constant signal with the 4G antenna and on-line sampling at 15 minute intervals. The whip antenna was placed 2 metres from the instrument and microphone.



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