

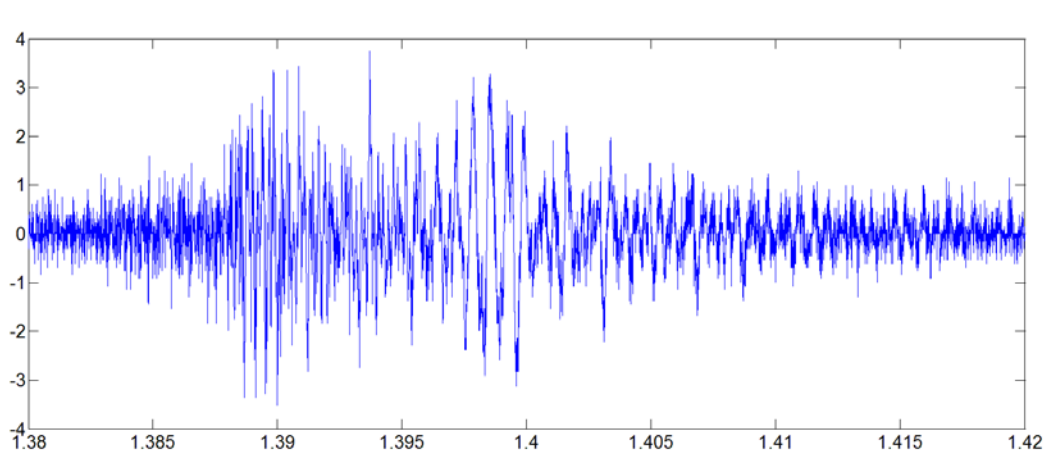
Seismic event of August 24, 2016

Monitoring of Teleco production facilities in Lugo (Italy)

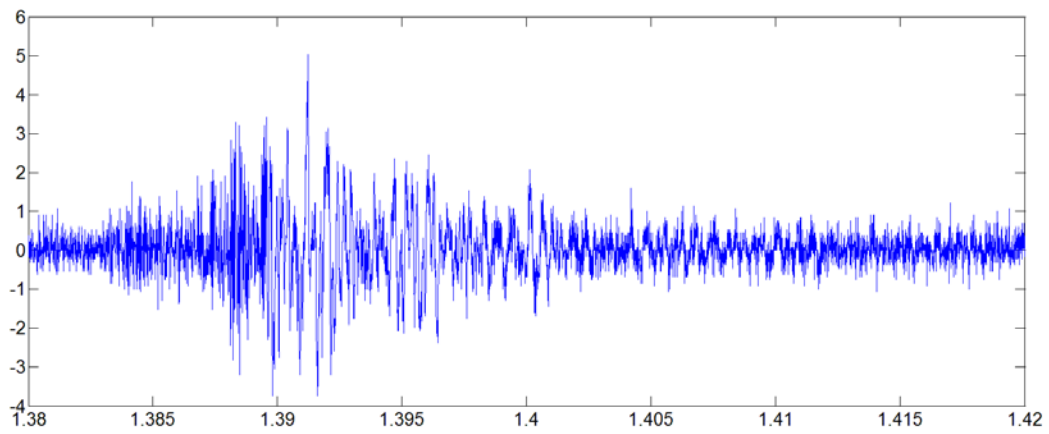
Teleco production facilities in Lugo di Romagna (Italy) consist in two large buildings that allocate most research, production and storage facilities of Teleco SpA. The integrity of these buildings is constantly monitored by a SHM602 system whose first bus hosts four TSM02 biaxial sensors that can operate up to a sampling frequency of 80 Hz and are allocated in the first building while the second bus hosts other four TSM02 biaxial sensors that can operate at the same sampling frequency and are allocated in the second building.

The devastating seisming event that has affected the central region of Italy on August 24, 2016, has been clearly detected by the SHM system installed inside Teleco facilities and, despite its modest intensity in Lugo, the standard real-time control procedure adopted by Teleco has been applied in order to assure, as in other cases, the integrity of the structures and the job security.

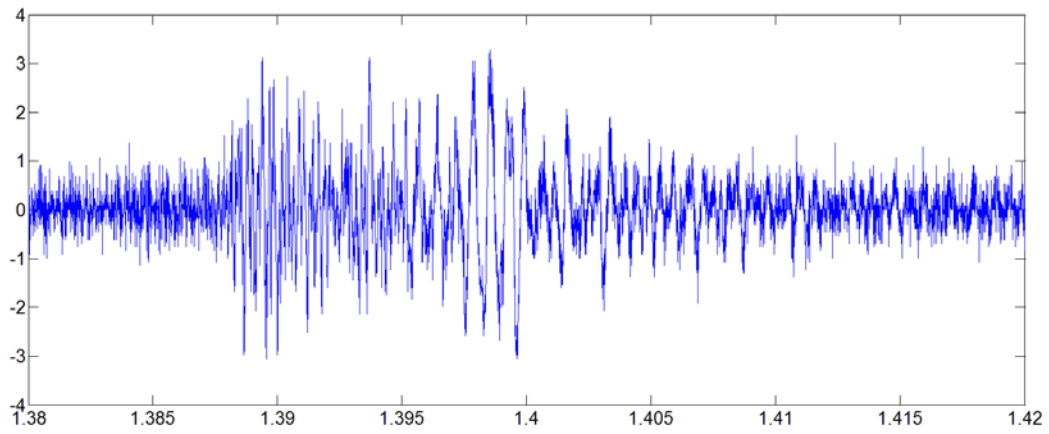
The plots of the signals detected by the sensors from 1:38 to 1:42 of August 24, 2016 are reported, in mg, in the following. The time delay takes into account the traveling of the seismic wave from the epicenter to Lugo (228 Km).



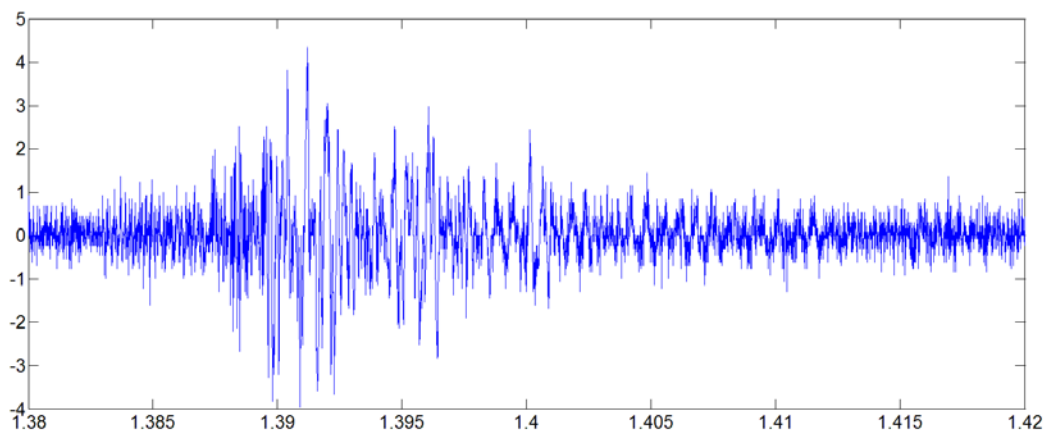
Bus 0 – Sensor 1 – X Axis



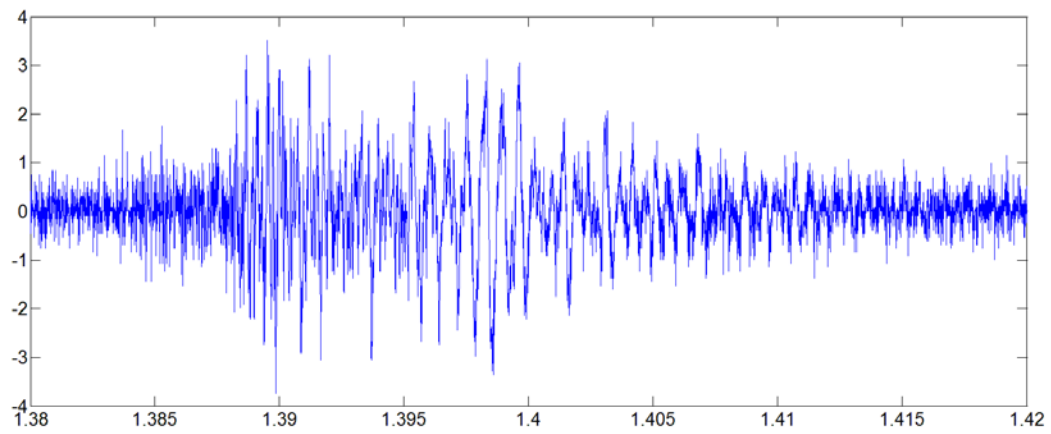
Bus 0 – Sensor 1 – Y Axis



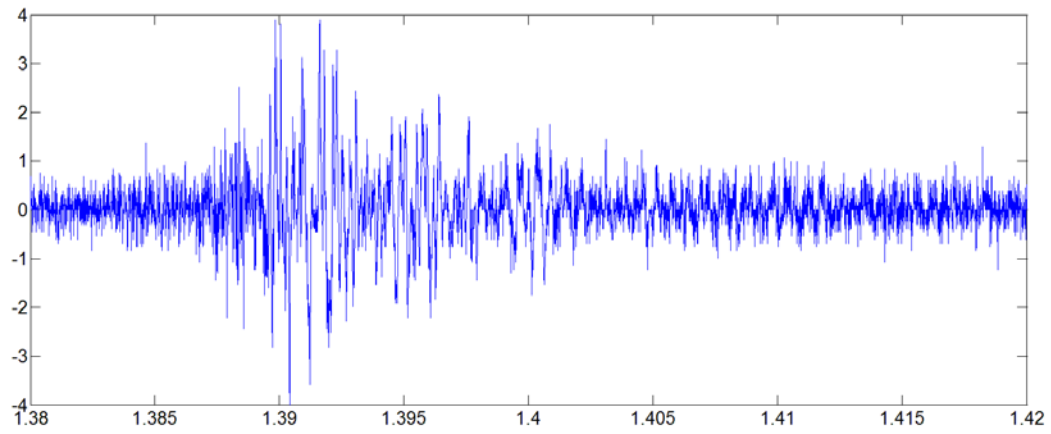
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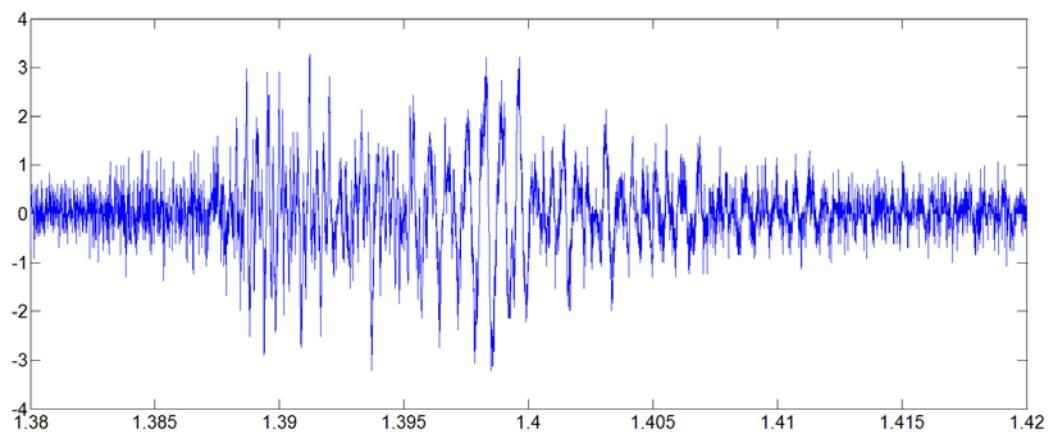
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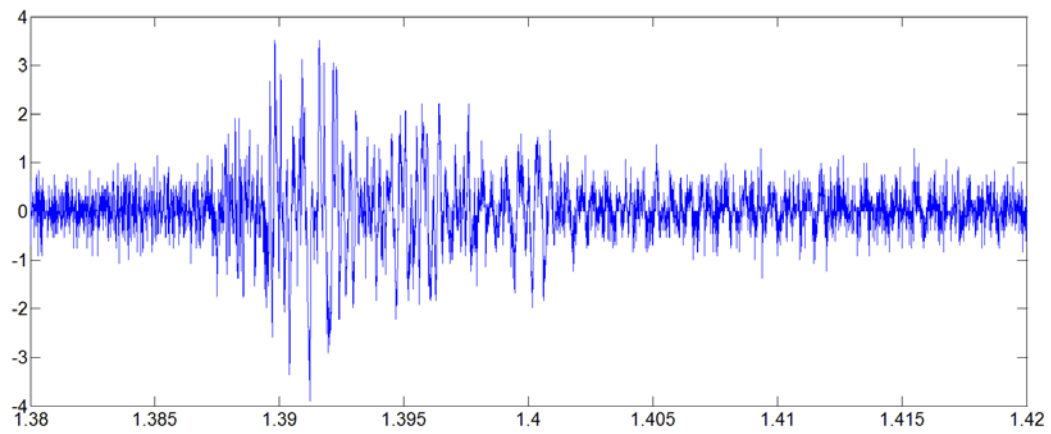
Bus 0 – Sensor 3 – X Axis



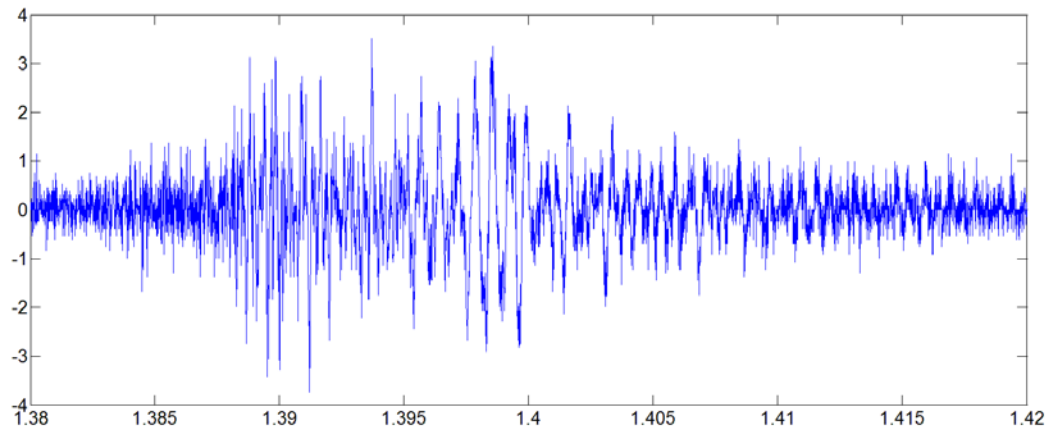
Bus 0 – Sensor 3 – Y Axis



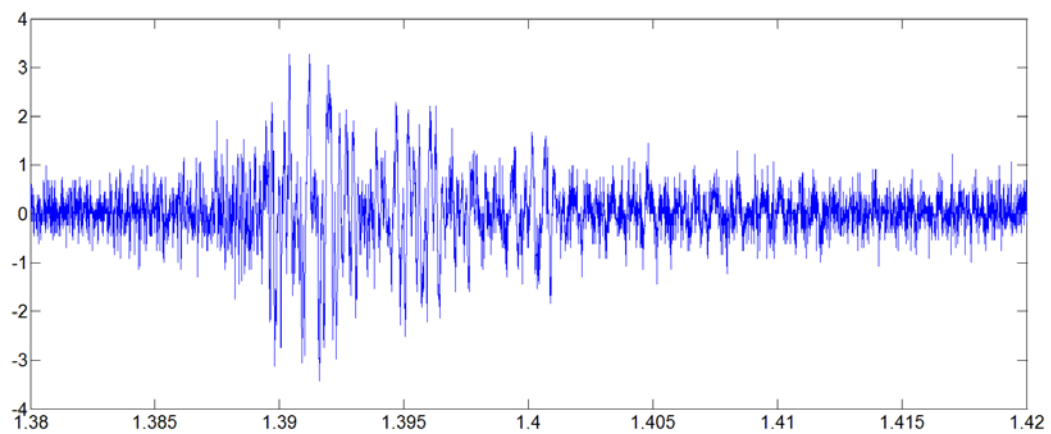
Bus 0 – Sensor 4 – X Axis



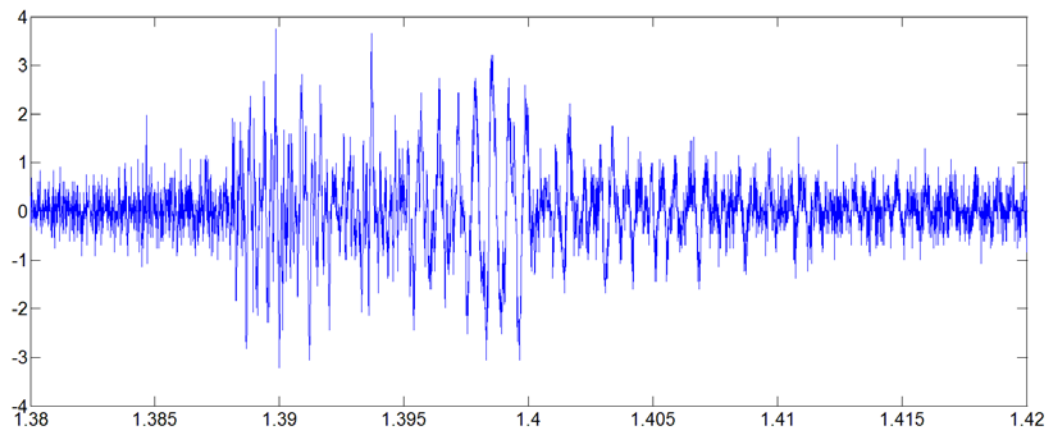
Bus 0 – Sensor 4 – Y Axis



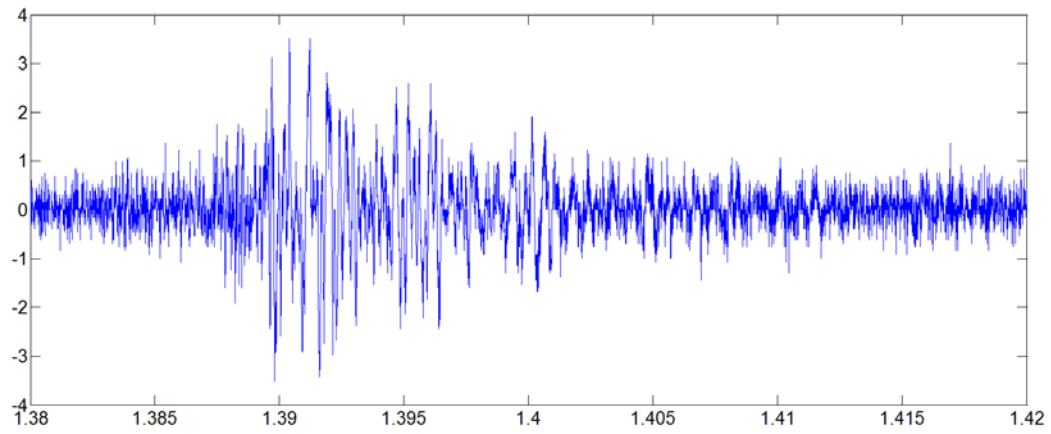
Bus 1 – Sensor 1 – X Axis



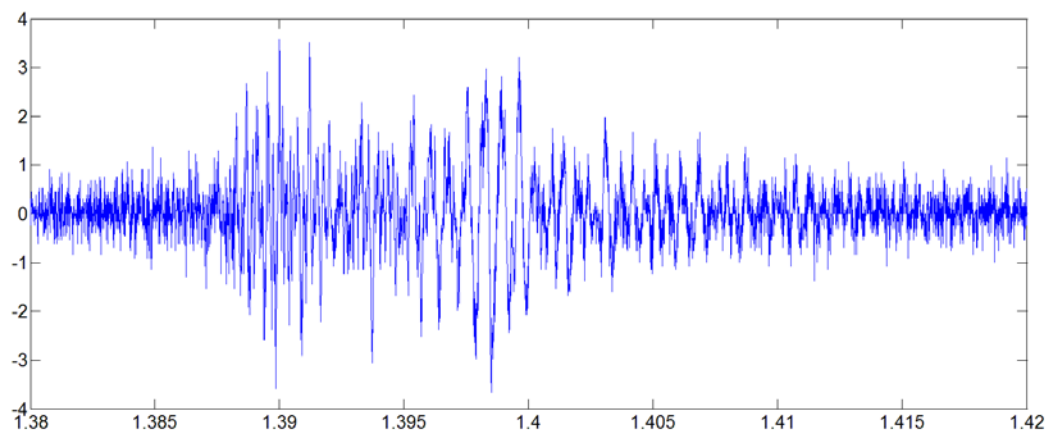
Bus 1 – Sensor 1 – Y Axis



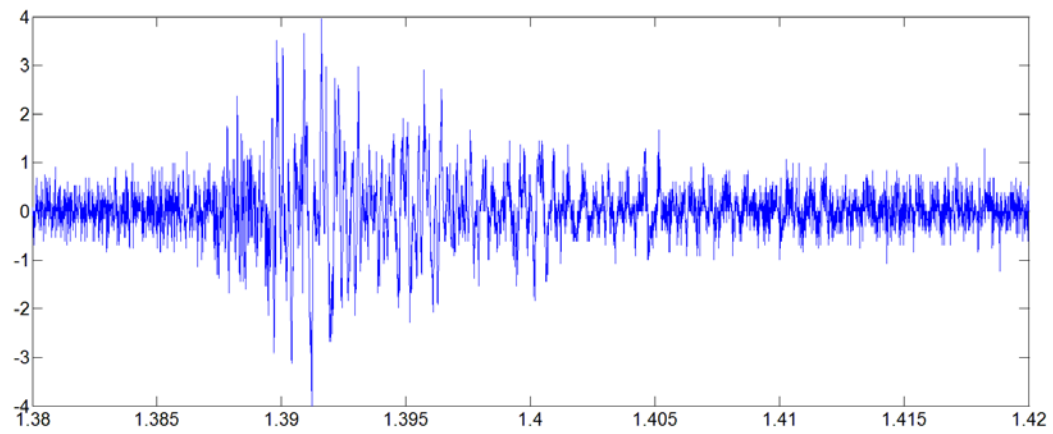
Bus 1 – Sensor 2 – X Axis



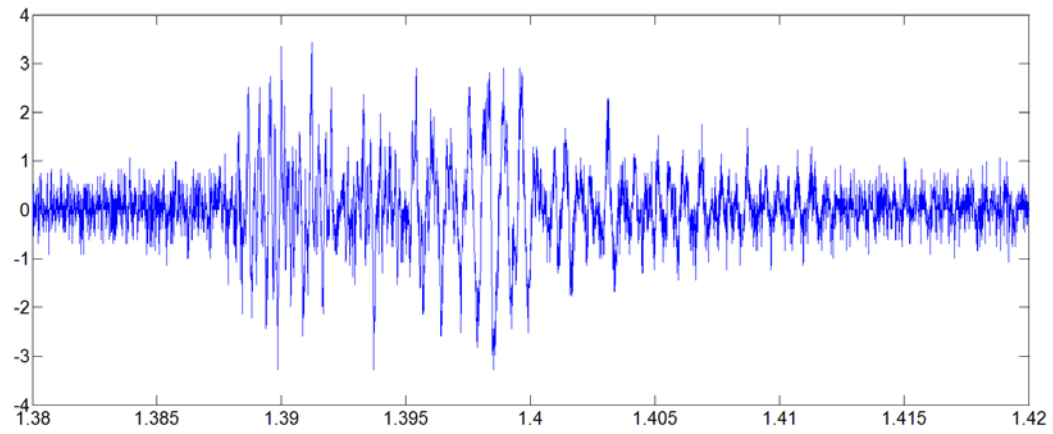
Bus 1 – Sensor 2 – Y Axis



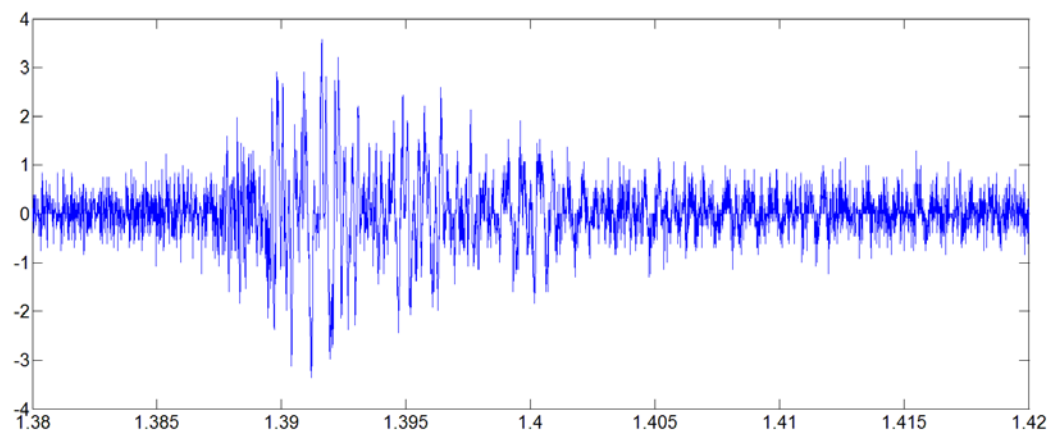
Bus 1 – Sensor 3 – X Axis



Bus 1 – Sensor 3 – Y Axis



Bus 1 – Sensor 4 – X Axis



Bus 1 – Sensor 4 – Y Axis