

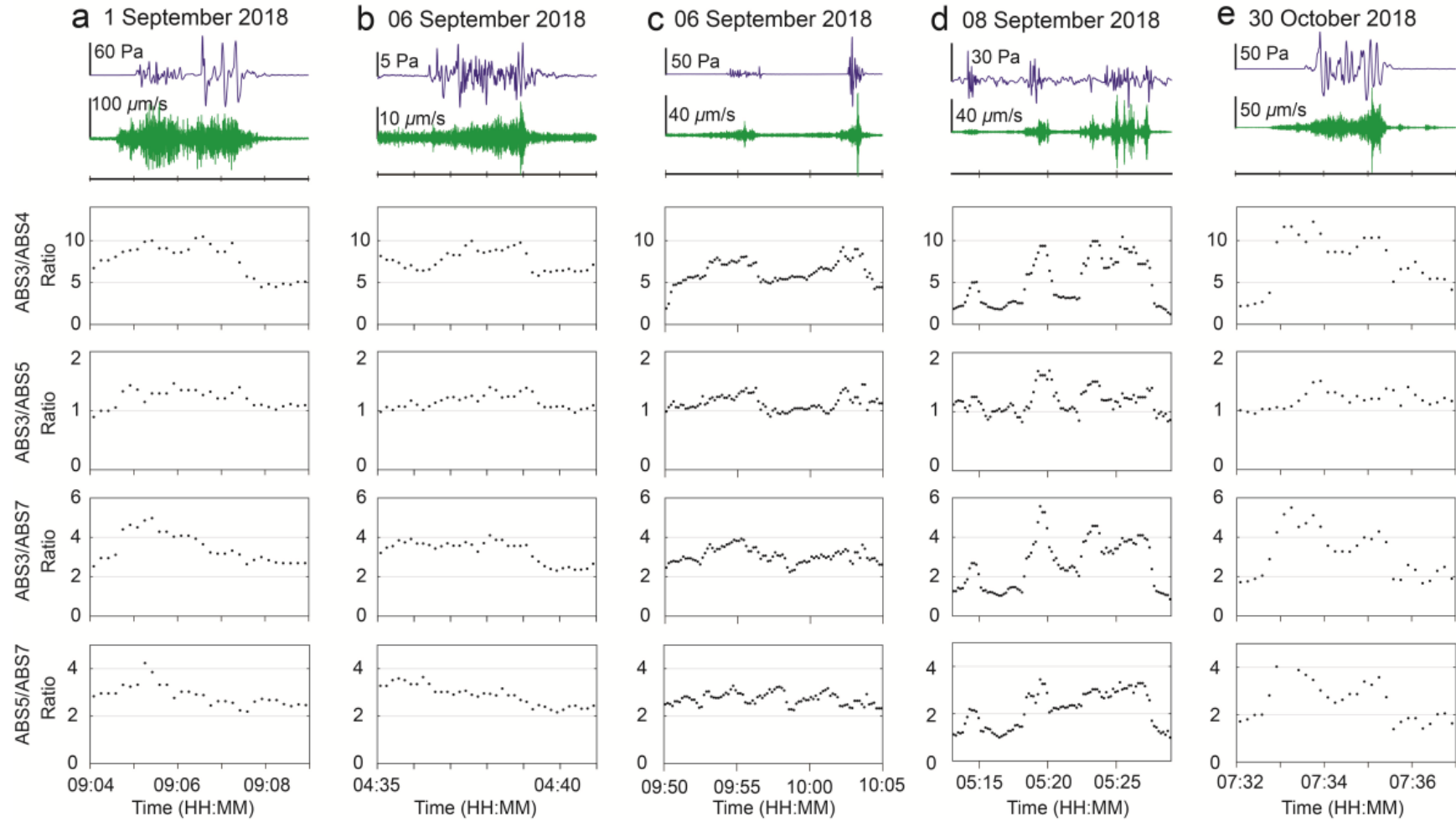


Fig. S4 The ratio variations for the five explosions on **a** 1 September 2018, **b** and **c** 6 September 2018, **d** 8 September 2018, and **e** 30 October 2018. Panel 1 shows acoustic (blue; ABA5) and seismic (green; ABS5) unfiltered waveforms (the same as Fig. 3), blow panels indicate ratio variations with time using ABS3/ABS4, ABS3/ABS5, ABS3/ABS7, and ABS5/ABS7.