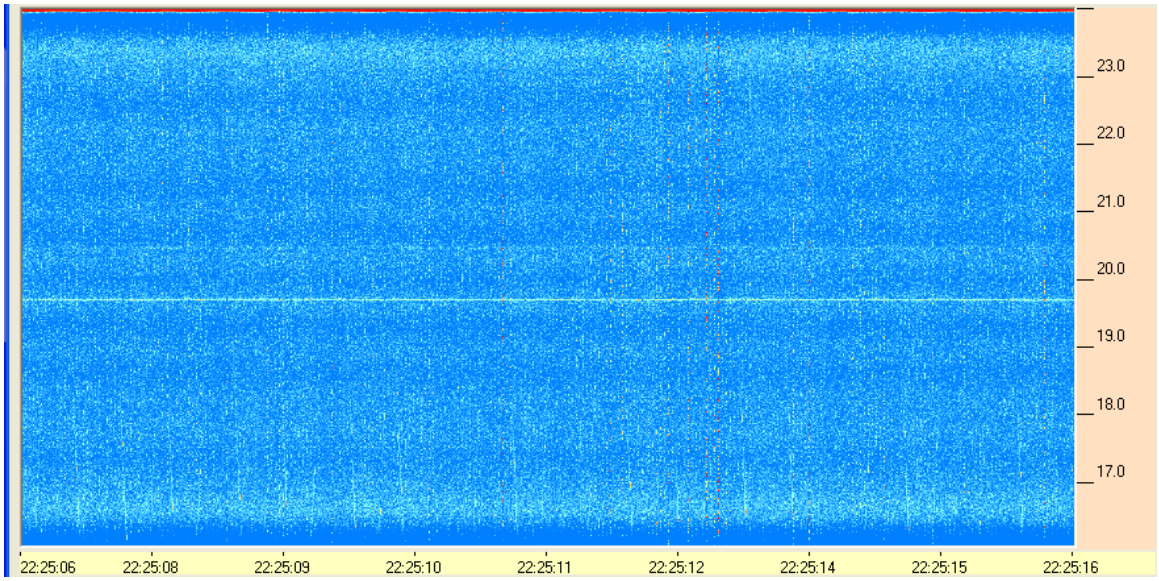
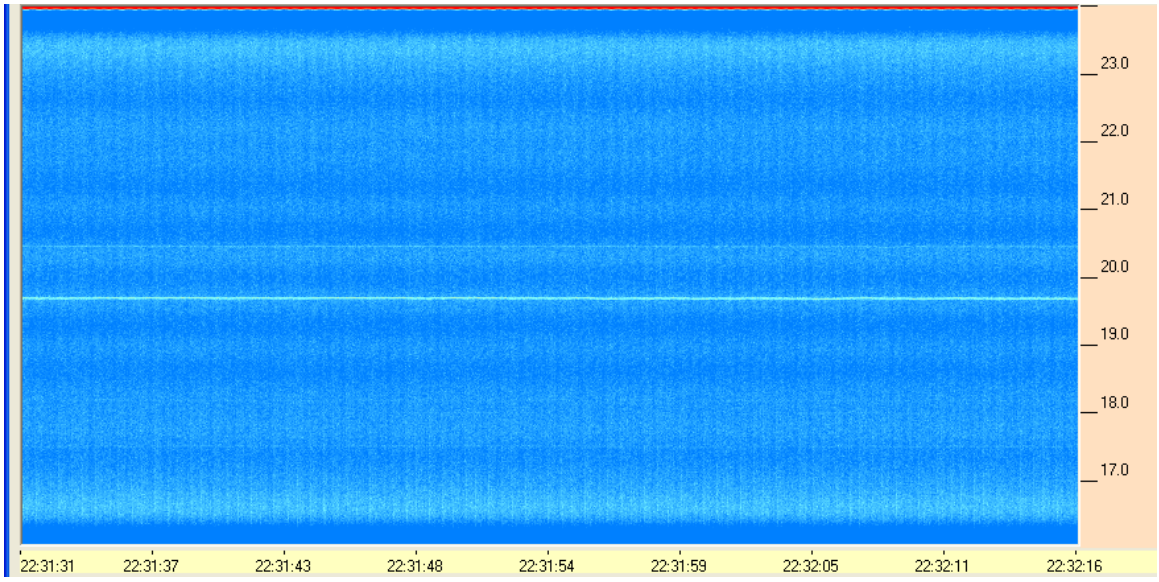
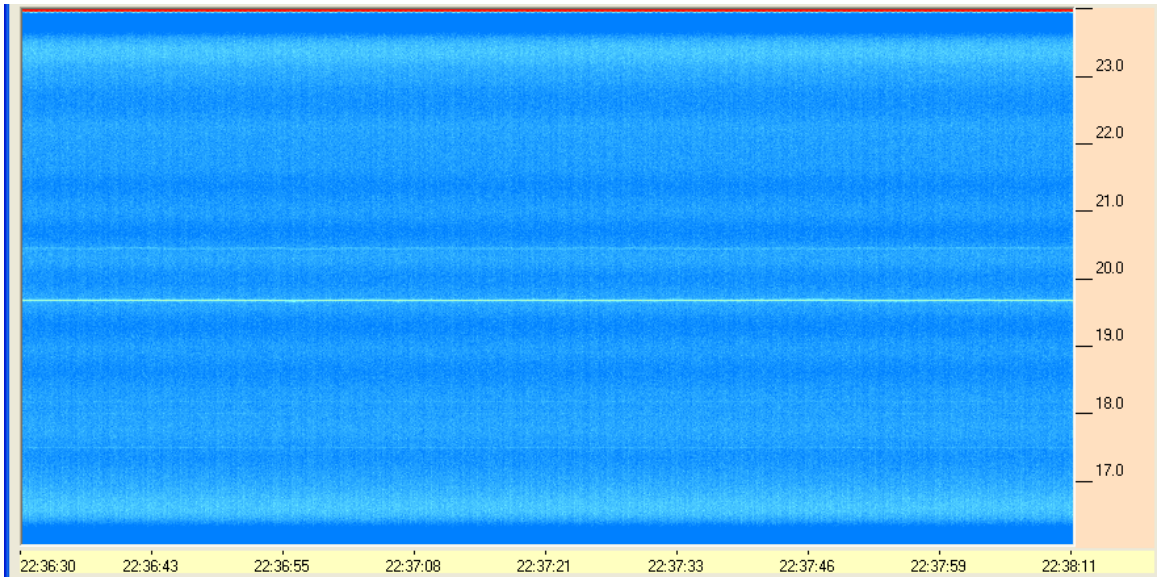
Effect of varying the integration time in SDRPlay2RSS - using 800 sweeps in RSS.
Input noise temp to RSP2 is 7.2kK. R.S. Flagg 14 March 2018



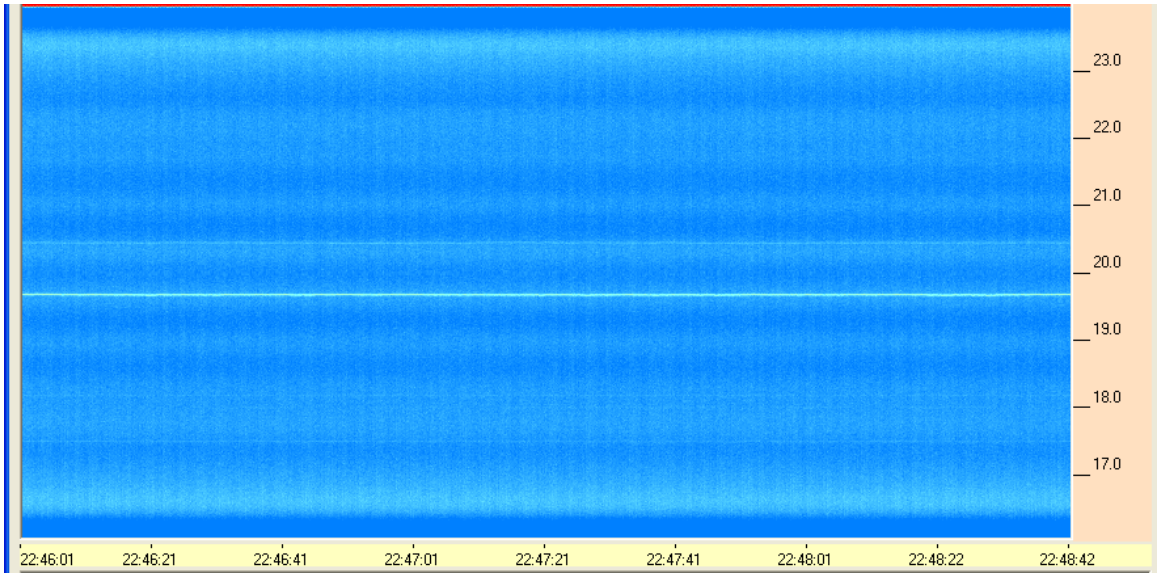
0.01 sec integration time, display time about 10 sec. A few vertical artifacts at low frequencies (vertical streaks) and a bit of noise visible. Good for viewing strong S-bursts and N-event detail. Weak horizontal banding visible.



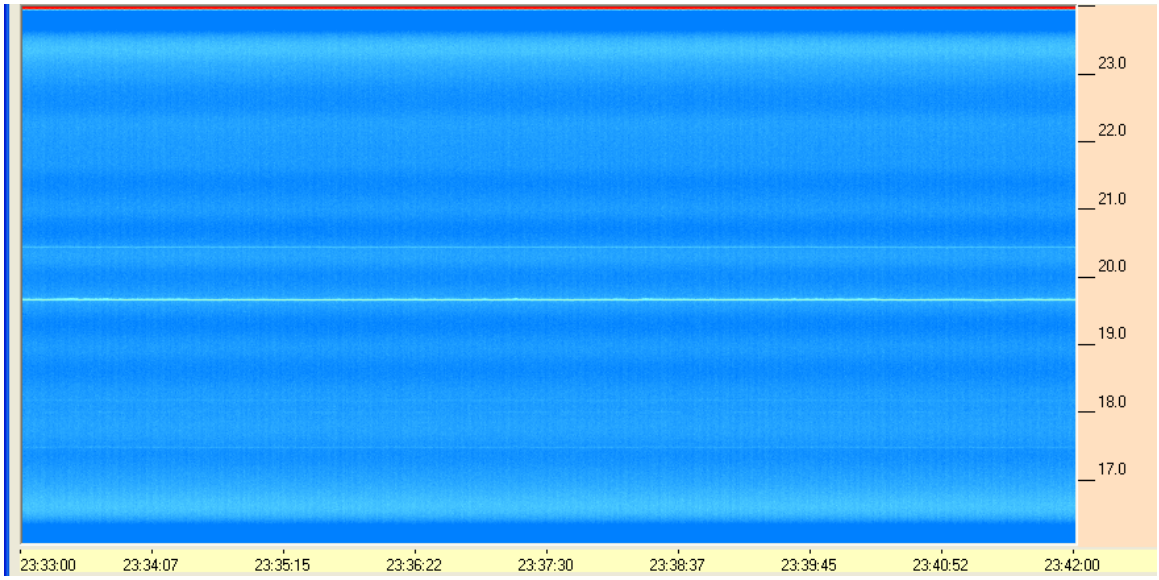
0.05 sec integration time, display time about 50 sec. As the integration time increases the noise starts to smooth out however some periodic vertical bands begin to appear and horizontal banding becomes more visible. Best for S-bursts and N-events.



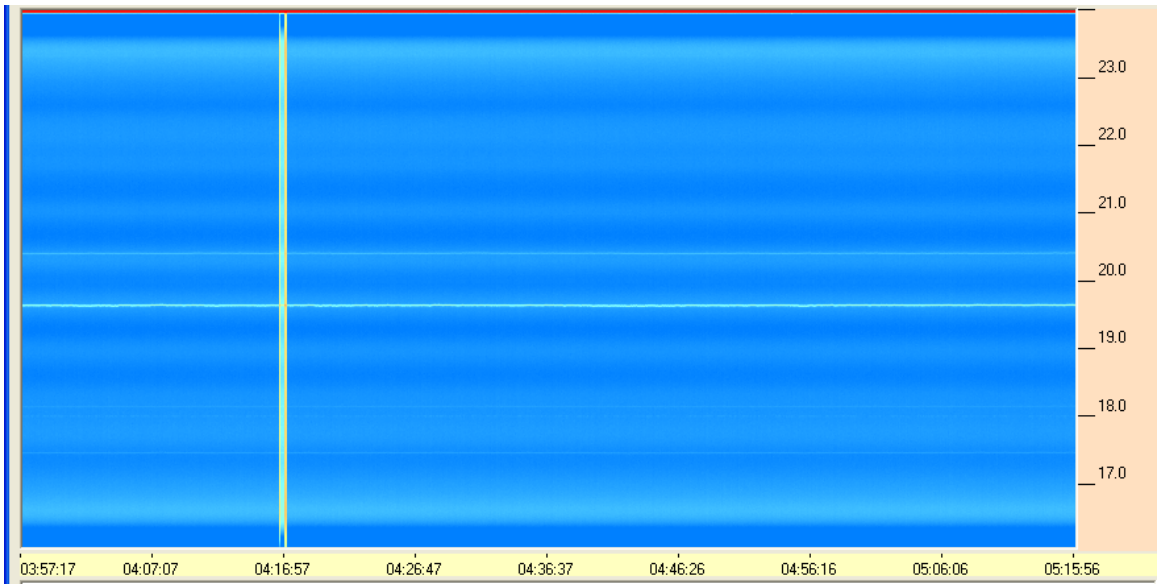
0.1 sec integration time, display time about 90 seconds. Periodic vertical banding visible and horizontal bands also. Integration is making the display more sensitive to small amplitude changes across the passband.



0.15 sec integration time, display time about 140 sec. Periodic vertical bands and horizontal bands slightly more visible. This is a compromise integration time for Jupiter, a bit long for S-bursts and a bit short for L-bursts.



0.5 sec integration time, display time about 470 seconds. Horizontal bands quite evident with increased sensitivity. Probably a good integration time for Cass A and TP observations although longer integration times could also be used. May be useful for Jupiter L-bursts.



5 second integration time, display time 1 hr 18min. Long integration time shows strong banding due to increased sensitivity. Correction array may be useful to flatten the display. Vertical bar is a 1 dB increase in signal strength. May be useful for overall Jupiter storm activity, Cass A, and TP measurements.