$B_{drift}$ , systematic effects (second term)  $\overline{hfs} - hfs = -20 \text{ kHz}$  $\overline{hfs} - hfs = -10 \text{ kHz}$ 3.0 - $\overline{hfs} - hfs = -5 \text{ kHz}$  $\overline{hfs} - hfs = + 0 \text{ kHz}$  $\overline{hfs} - hfs = +5 \text{ kHz}$  $\overline{hfs} - hfs = +10 \text{ kHz}$ 2.5 - $\overline{hfs} - hfs = +20 \text{ kHz}$ 2.0  $\overline{hfs}_{measured} - \overline{hfs}$  [KHz] 1.5 1.0 0.5 0.0 -0.5 50 75 100 125 0 25 150 175 200 magnetic field drift [kHz/h]