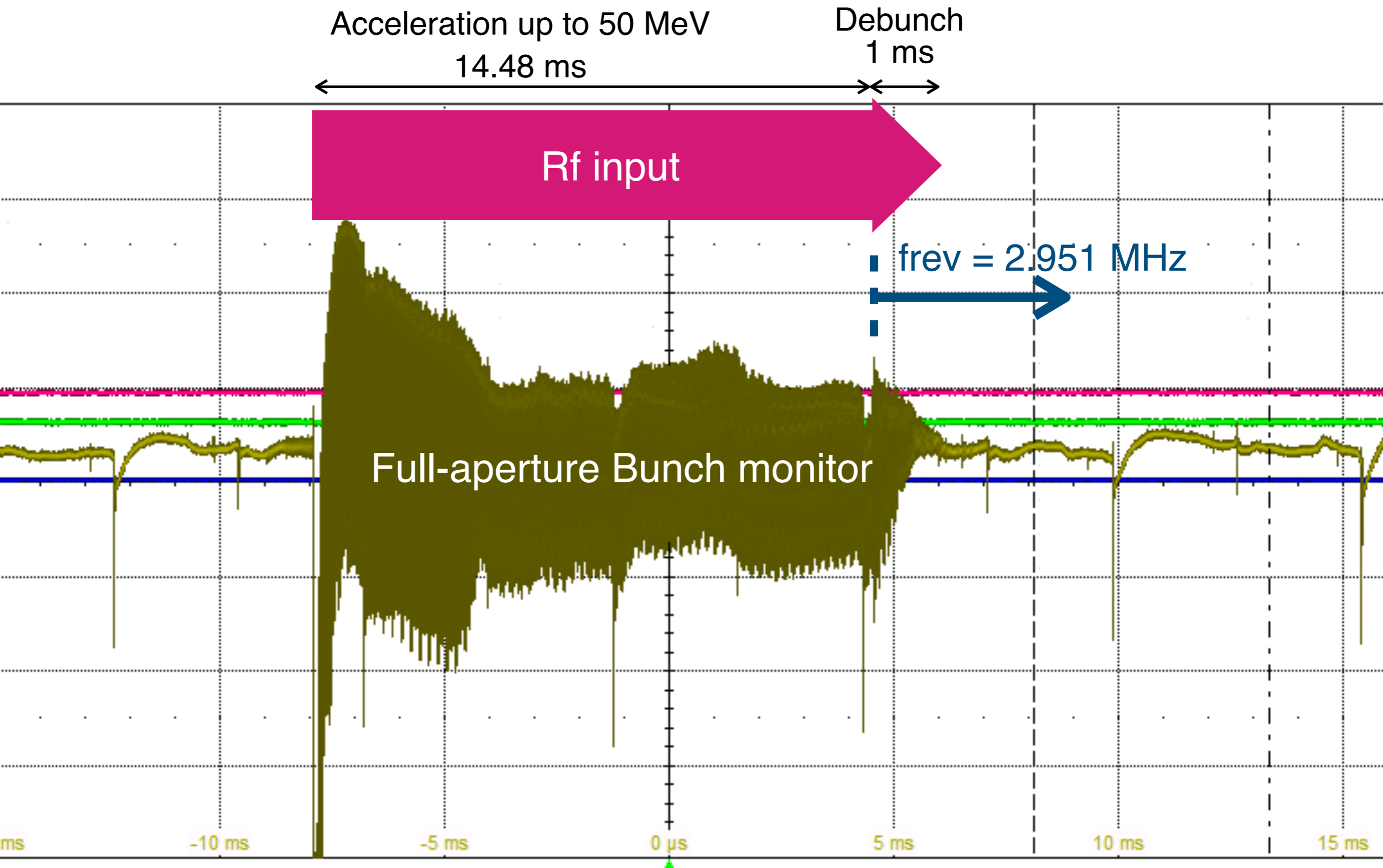


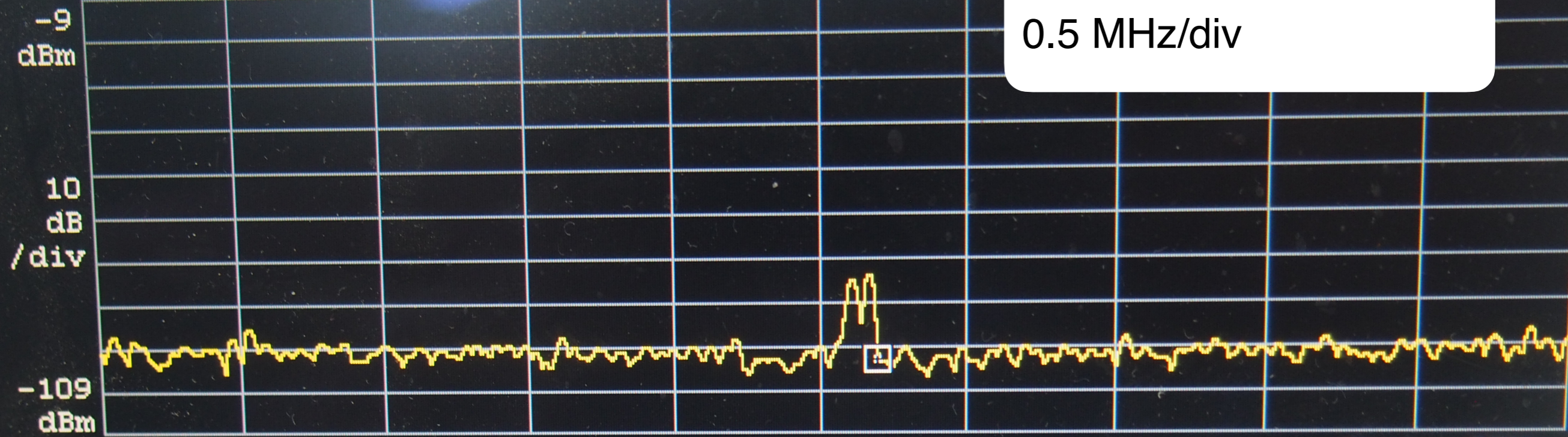
Observation of Schottky signal

2022. 11. 18 Tom Uesugi



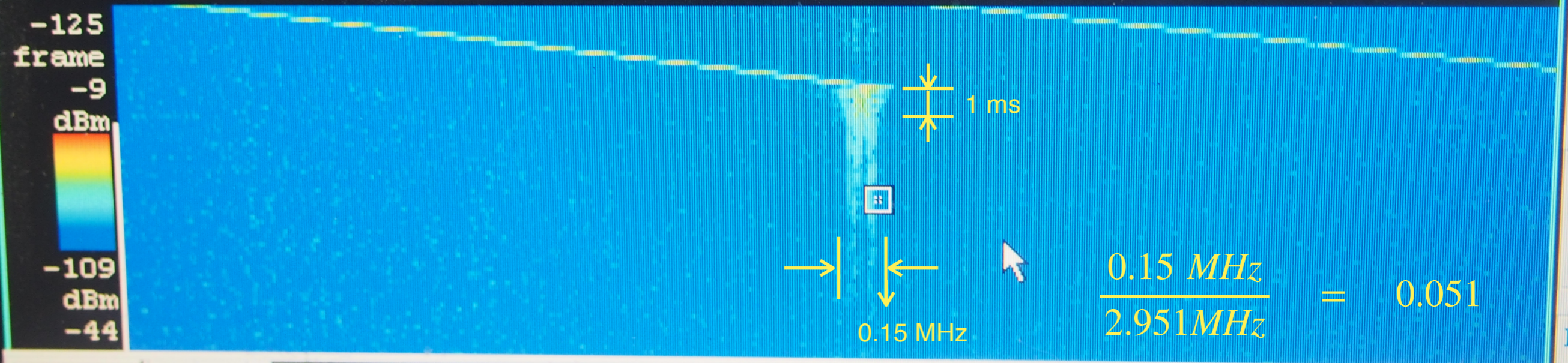
RBW: 20kHz

Marker: 26.593 75MHz
-91.844dBm (-134.854dBm/Hz)

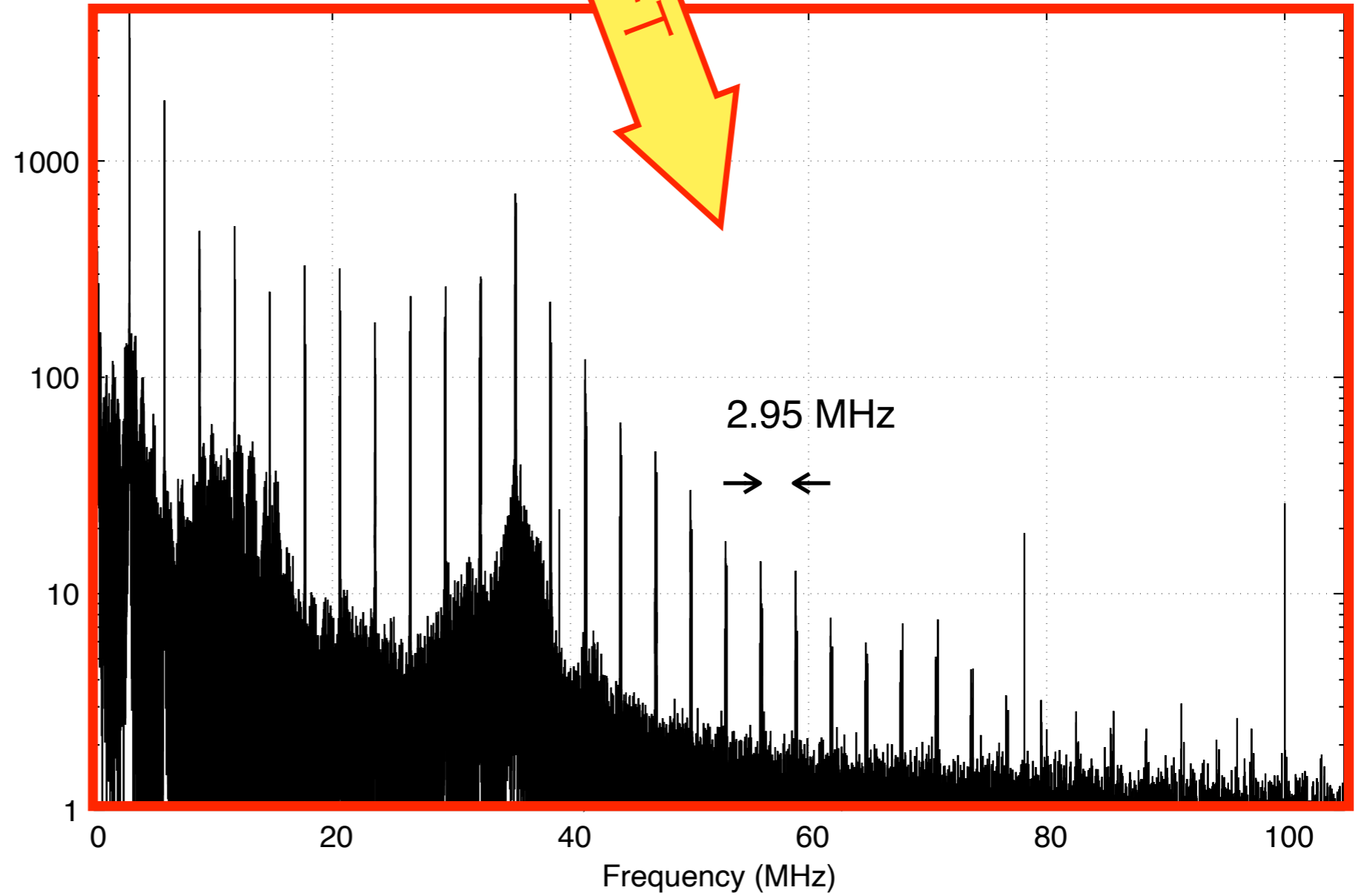
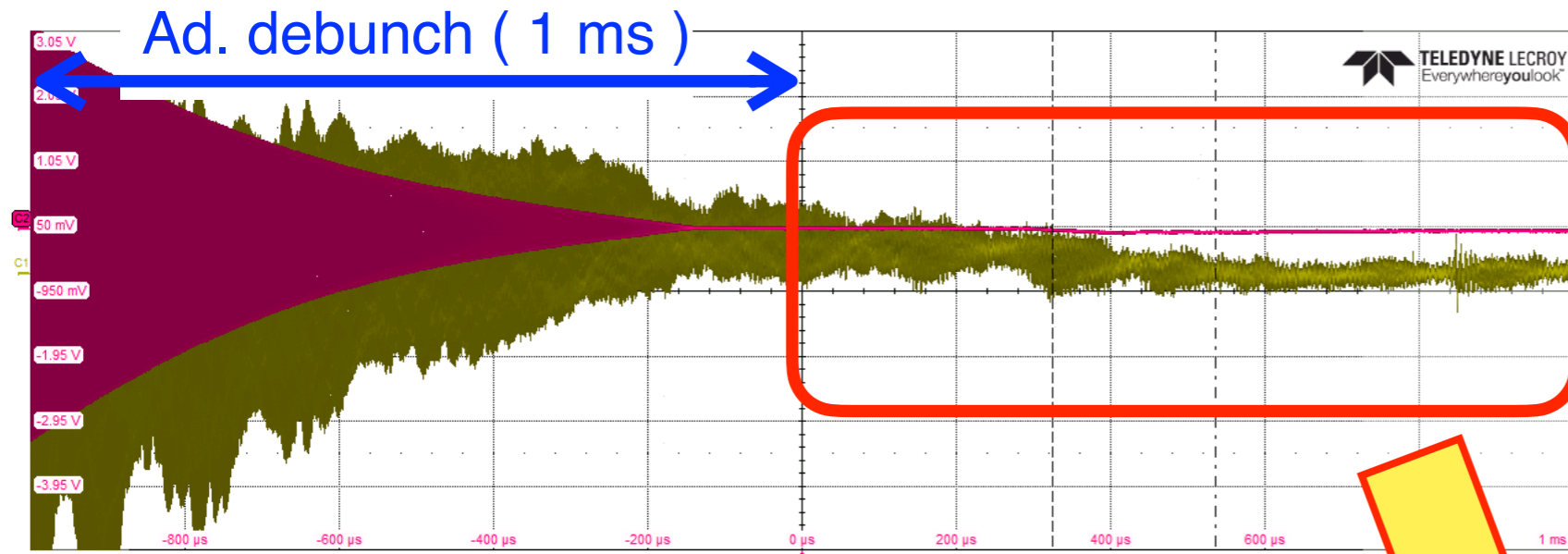


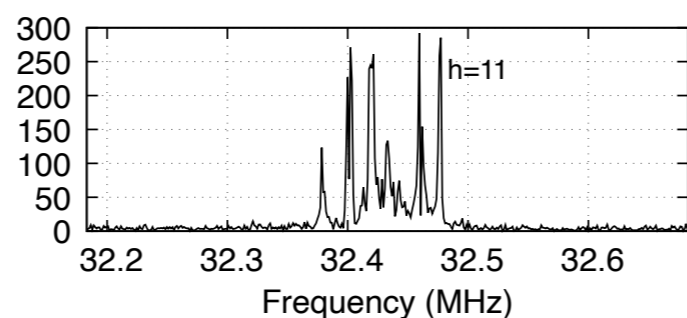
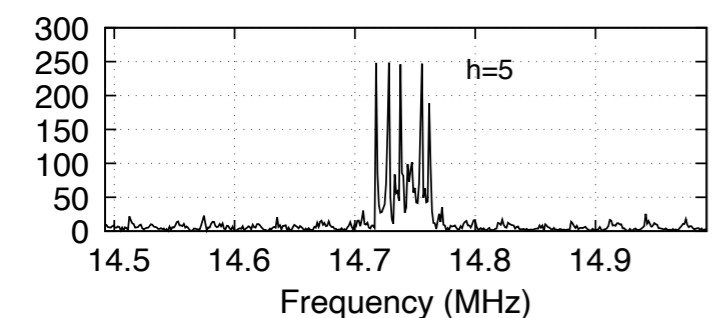
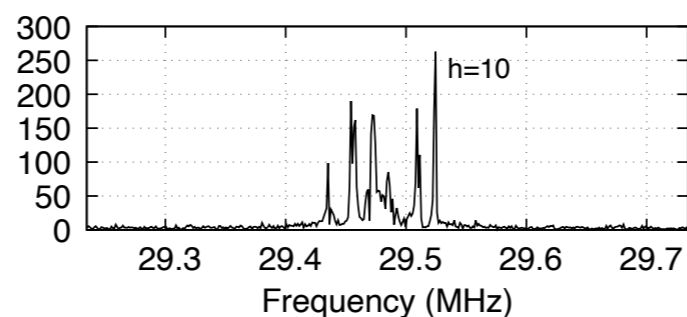
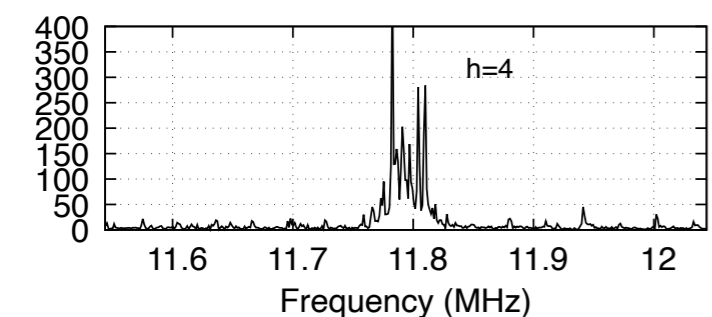
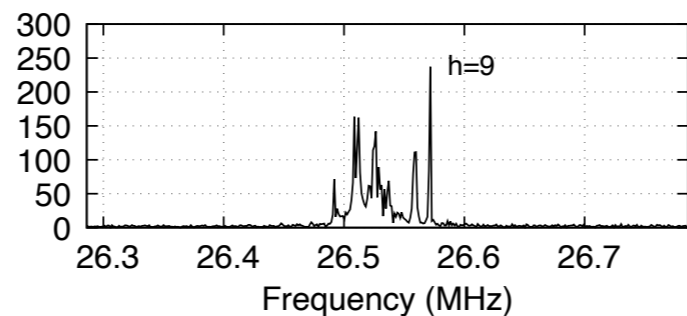
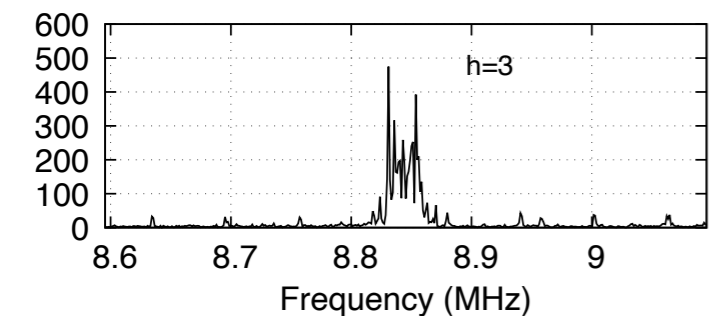
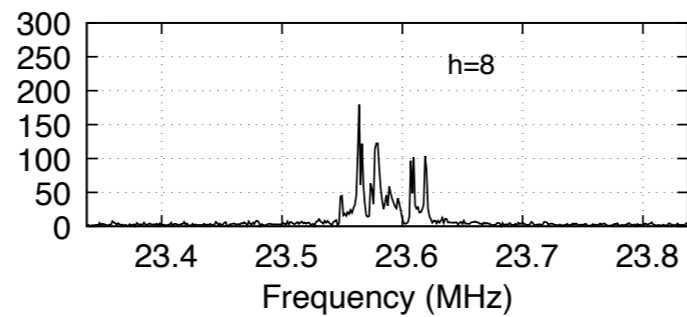
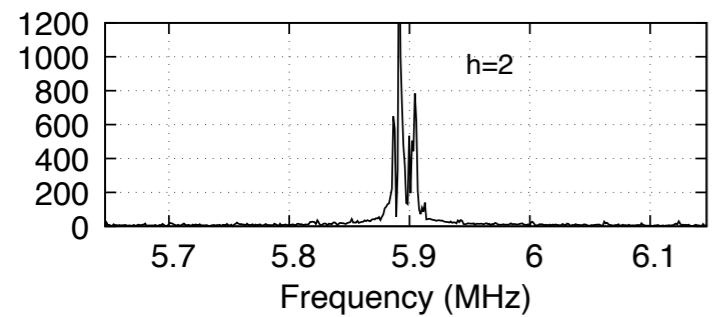
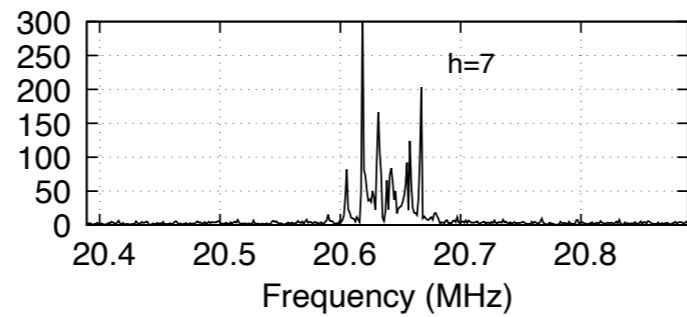
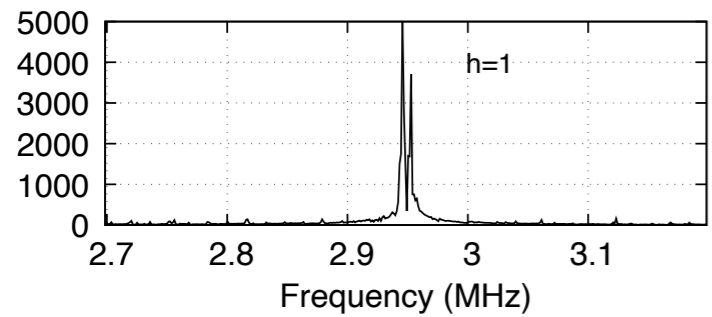
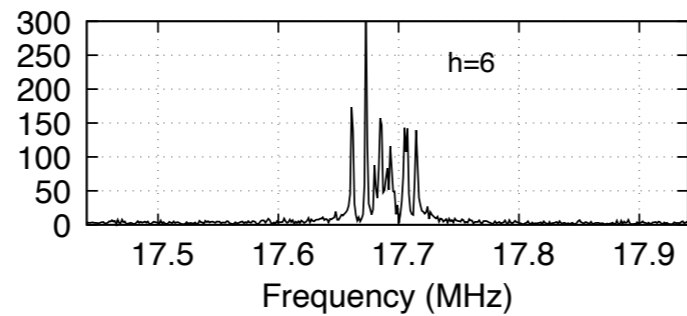
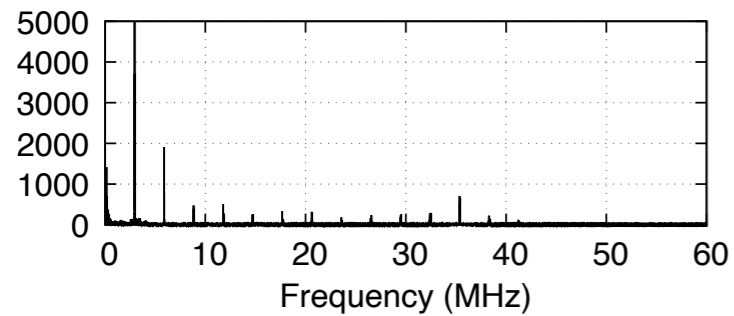
$h = 9$ ($f_{rev} = 2.951 \text{ MHz}$)
0.5 MHz/div

Marker: 26.593 75MHz
-107.115dBm
-13.44ms -84frame



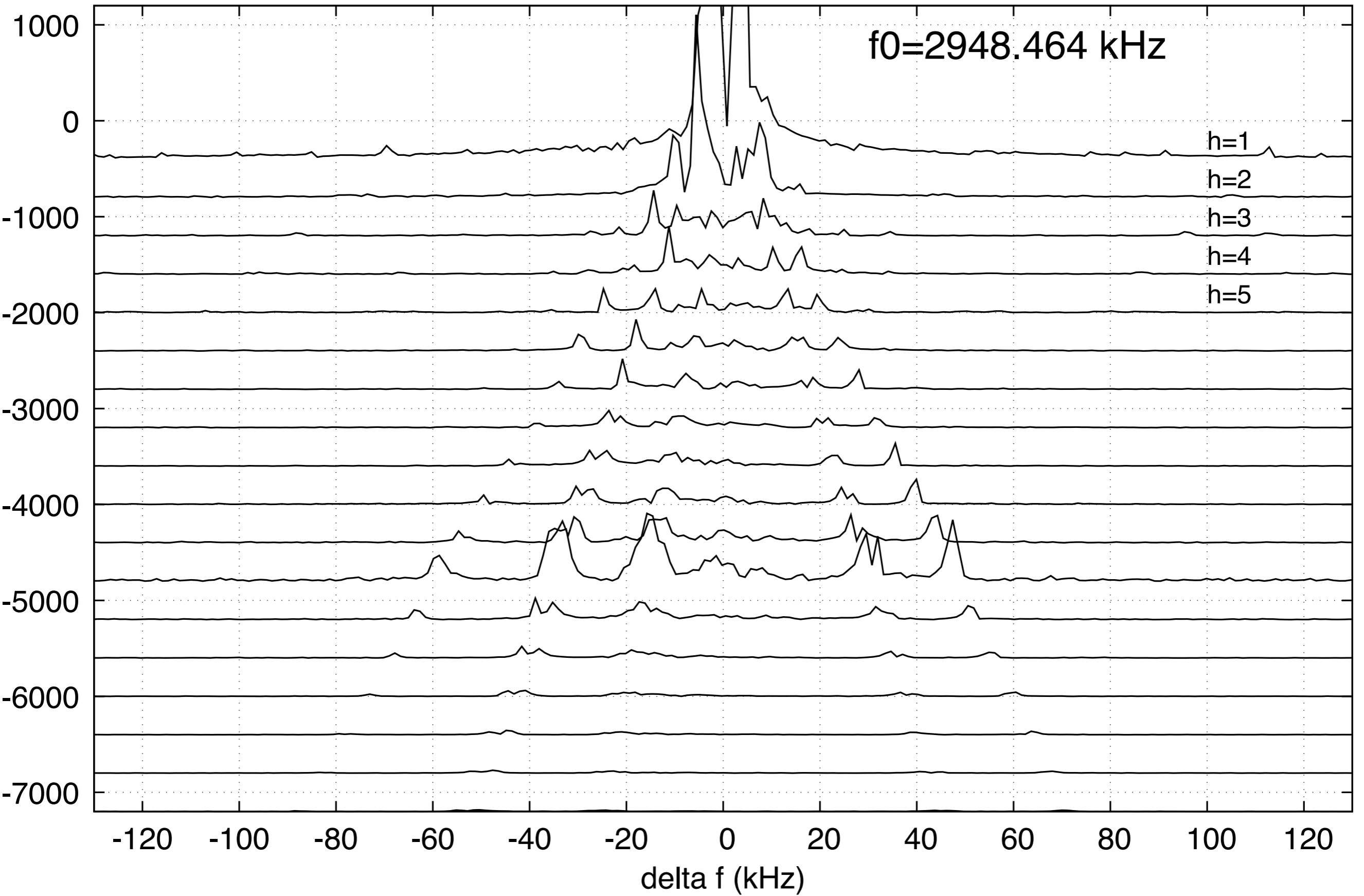
$$\frac{0.15 \text{ MHz}}{2.951 \text{ MHz}} = 0.051$$

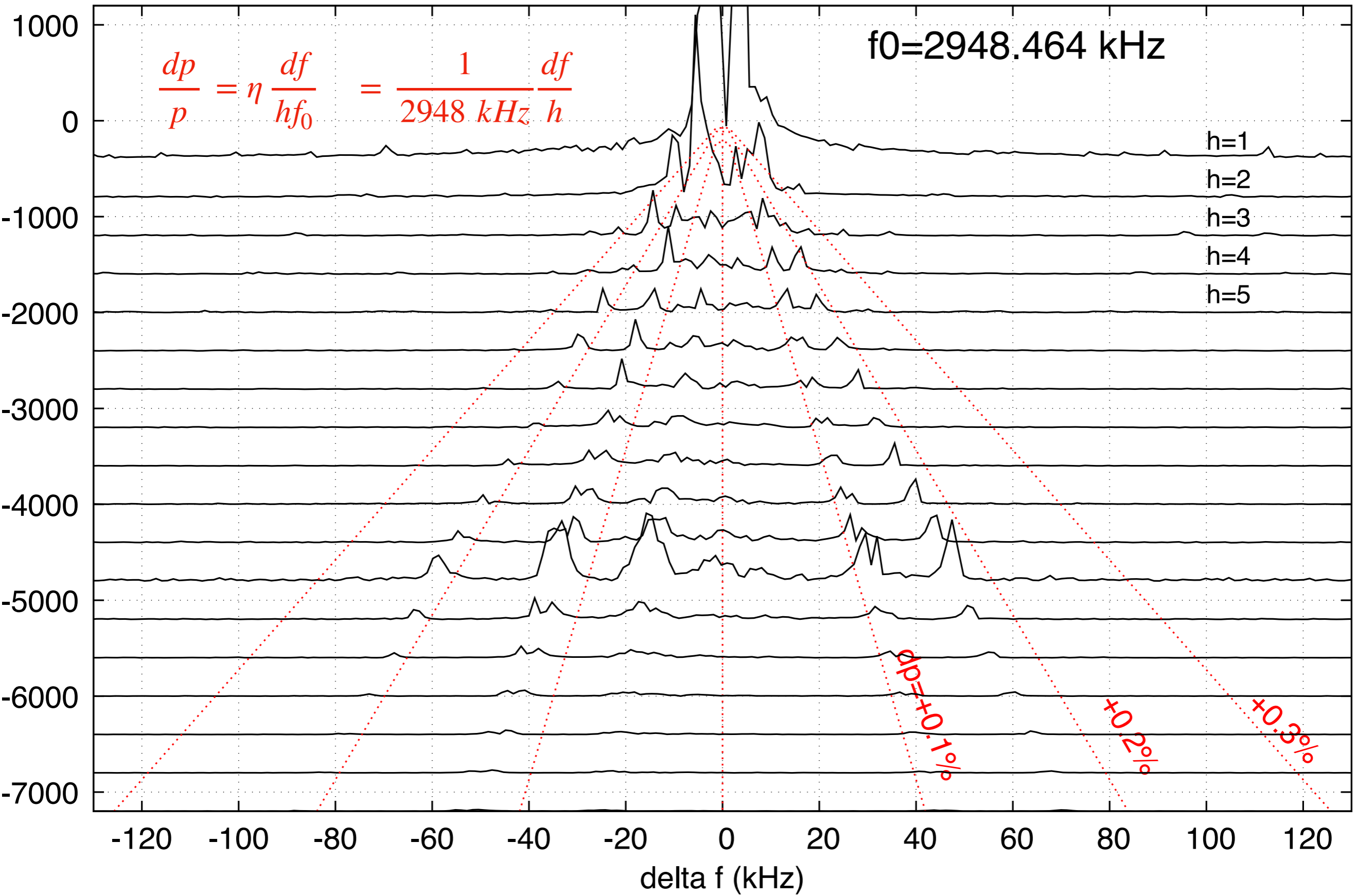


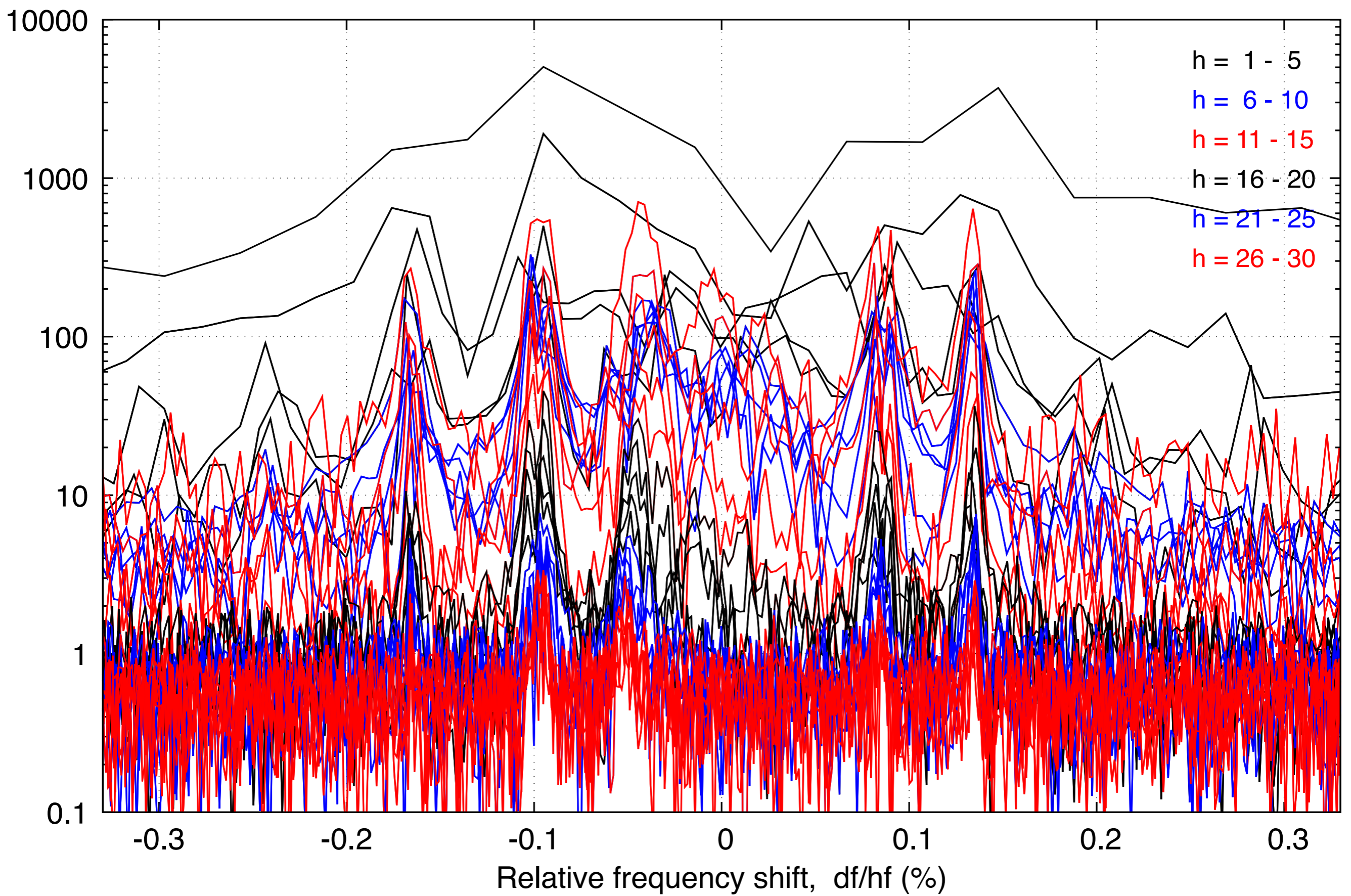


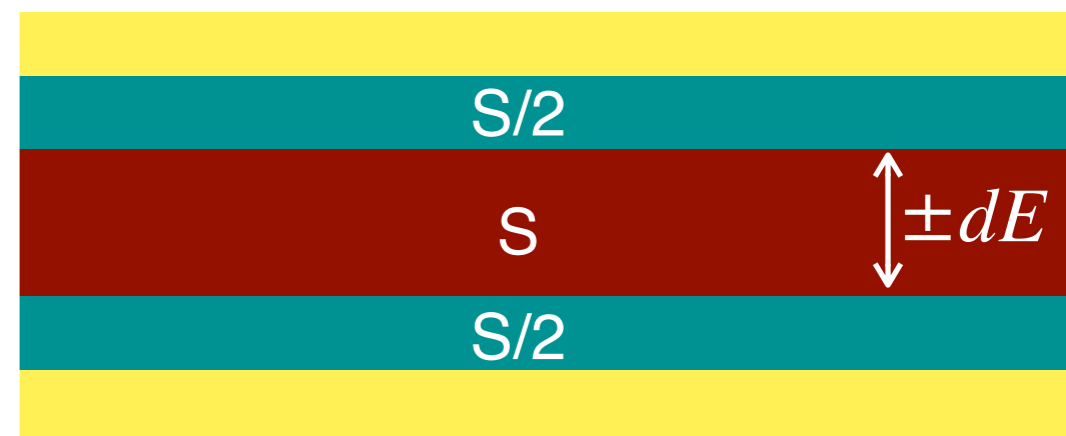
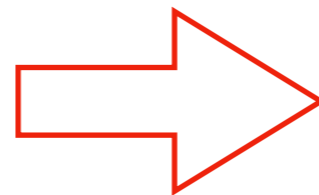
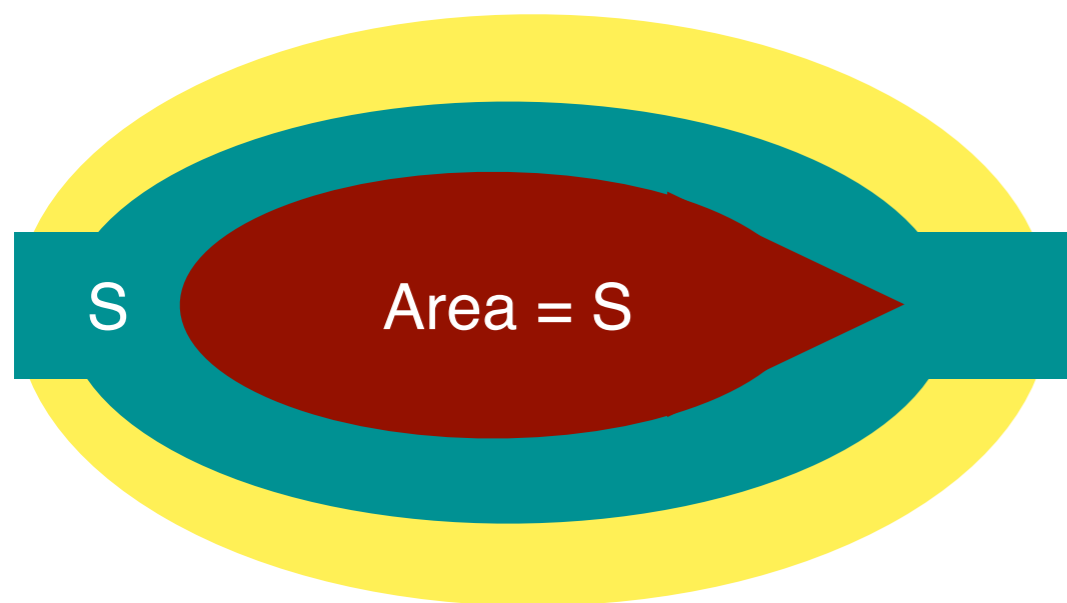
f0=2948.464 kHz

h=1
h=2
h=3
h=4
h=5









$$S \simeq 2 \times \sqrt{-\frac{\beta^2}{\pi\eta} E eV} \times 4\sqrt{2} \frac{1 - \sin \phi_s}{1 + \sin \phi_s}$$

$$= 2.205 \text{ MeV} \cdot \text{rad}$$

$$\left(V = 4 \text{ kV} \quad , \quad \phi_s = 20^\circ \right)$$

$$S = 2 \times 2\pi dE$$

$$dE = \pm 0.175 \text{ MeV}$$

$$\frac{dp}{p} = 0.175 \%$$