Temporal summary

2013.10.

1 2013.10.11

F/D/COR	814/995/445
HMBT-ST	Normal values
RF	off
BMON	(INU), AMP
OSCILLO	AC-50 Ω, Obake-subtracted
CHOPPER	0.2% (0.316 revolutions)

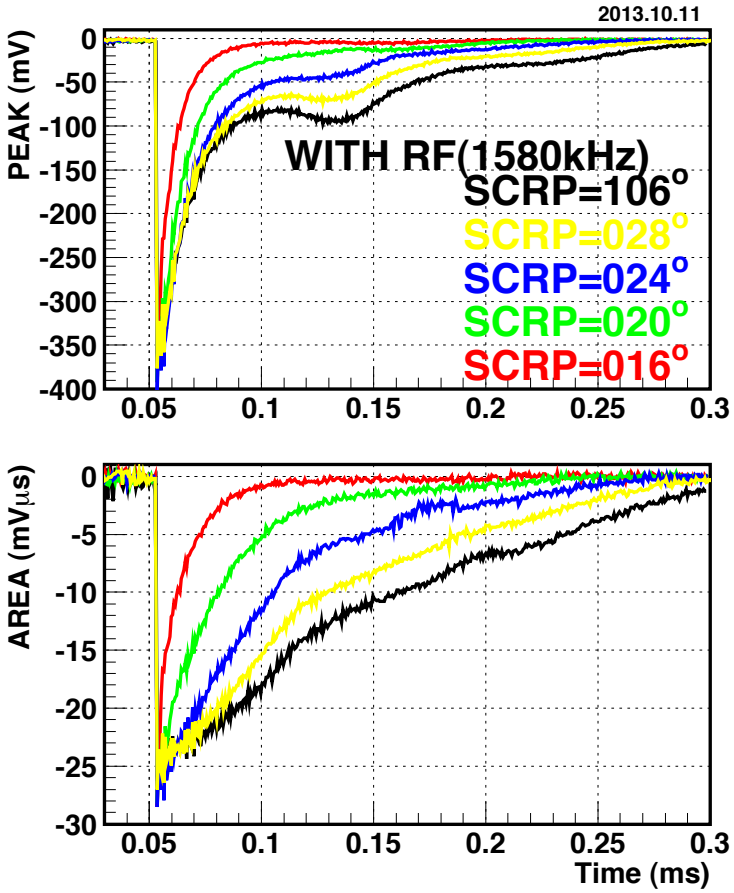

図 1: Dependence on vertical-scraper height

2 2013.10.15

Dependence on foil-position (number of foil hit).

2.1 Without RF

F/D/COR	814/995/445
HMBT-ST	Normal values
RF	off
BMON	(INU), AMP
OSCILLO	AC-50 Ω
CHOPPER	0.334% (0.527 revolutions)

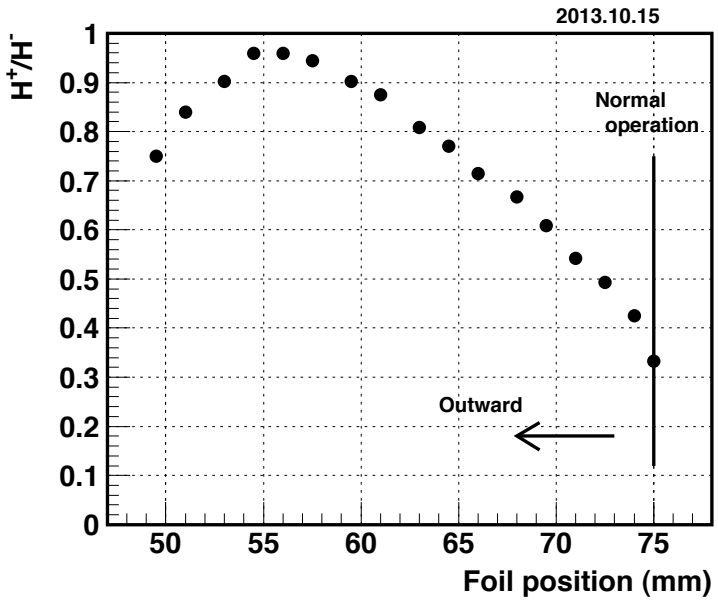

図 2: Injection efficiency vs foil position (Sec.2.1)

2.2 Moving buckets

F/D/COR	814/995/445
RF	AWG,20121025_150MeV2, 1.065 Vpp, 906.88 μs
BMON	(INU), AMP
OSCILLO	AC-50 Ω, 0.2 ms/div, 0.5MS
CHOPPER	1.334% (2.11 revolutions)

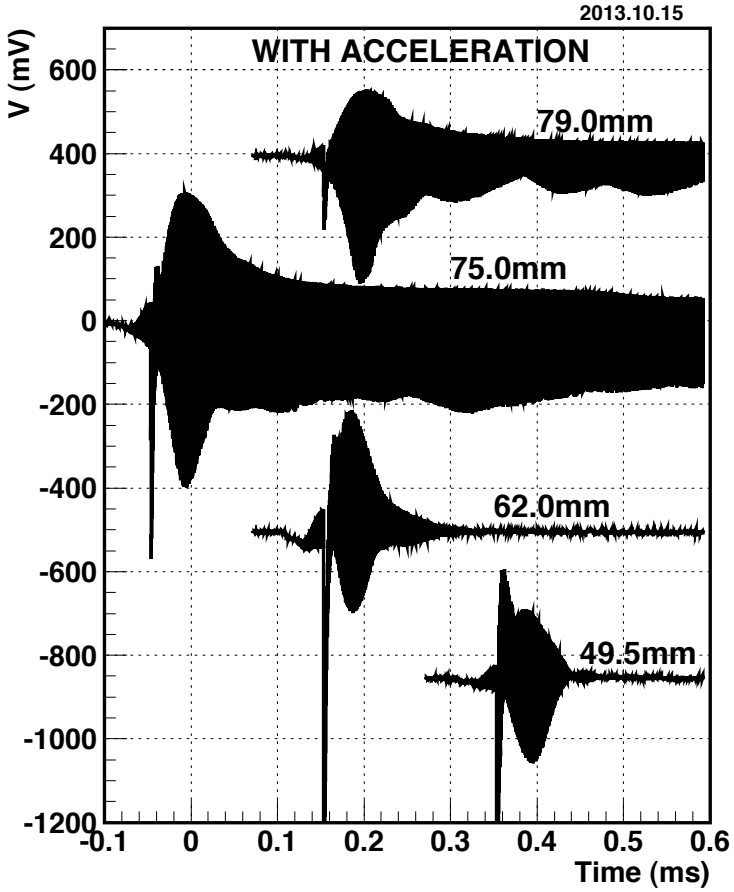

図 3: Dependence on foil position, with rf-acceleration.

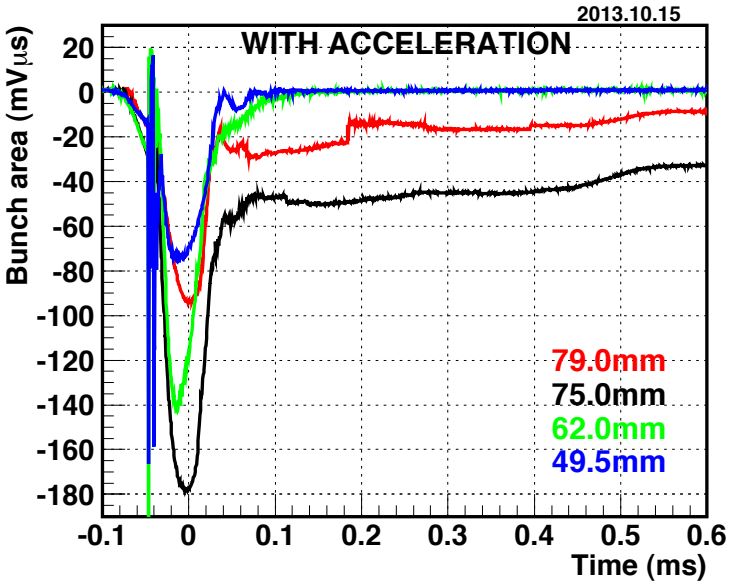

図 4: with rf- acceleration。

2.3 Stationary buckets

F/D/COR	814/995/445
RF	AWG,f1580, 0.950 Vpp (太田様 5 Vpp), 906.88 μs
BMON	(INU), AMP
OSCILLO	AC-50 Ω, 0.2 ms/div, 0.5MS
CHOPPER	0.334% (0.537 revolutions)

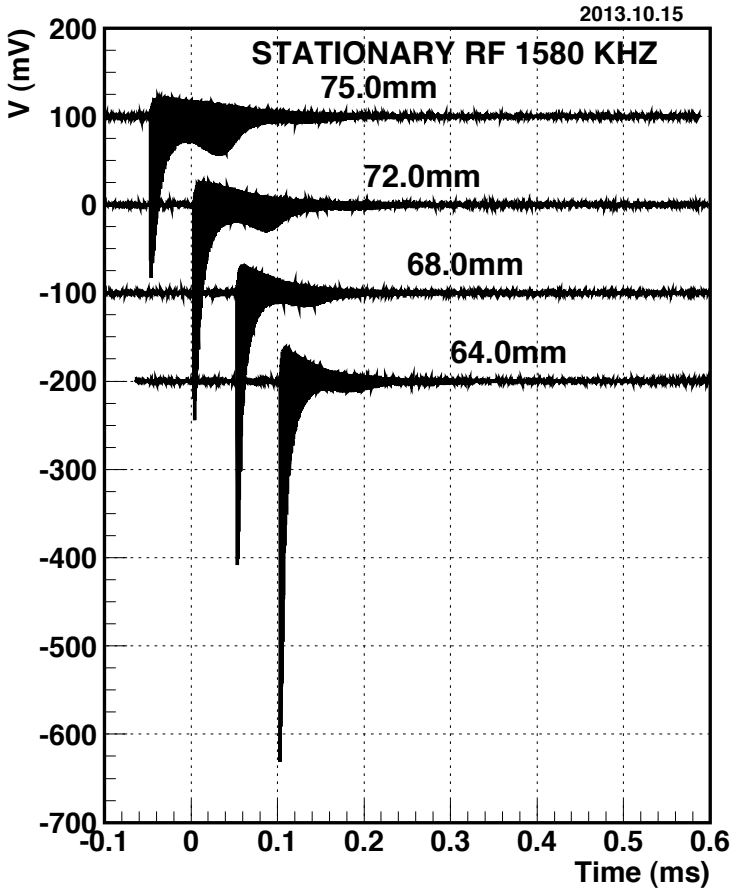

図 5:

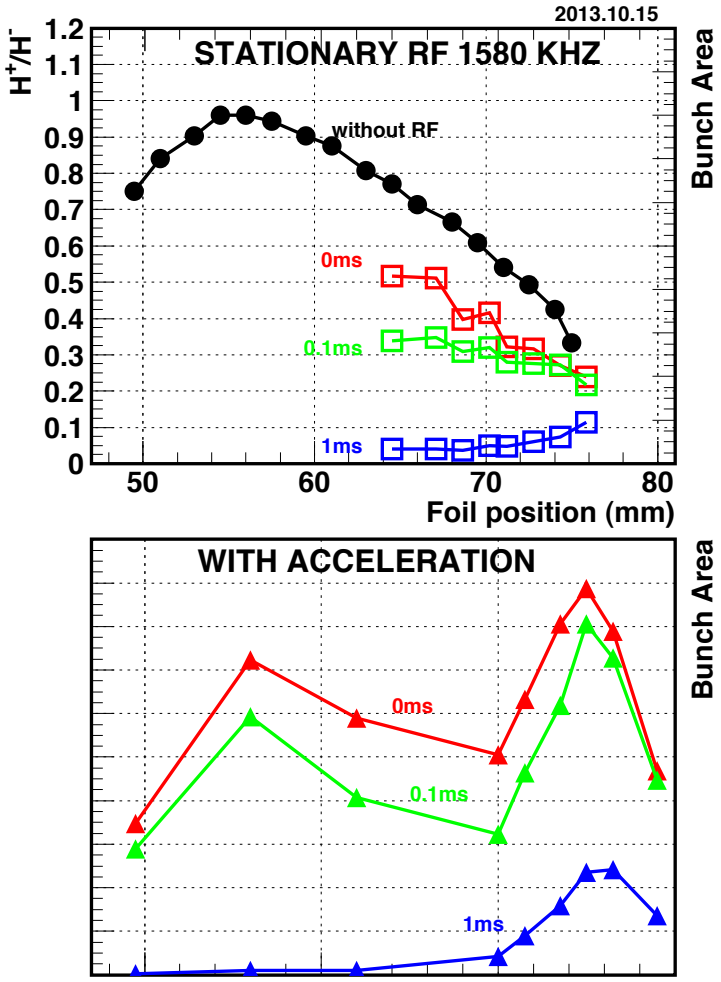

図 6: Summary of todays experiments. Best capture acceleration efficiency at 75 mm, which best injection efficiency at 55 mm.

3 2013.10.24

3.1 Thinner foil

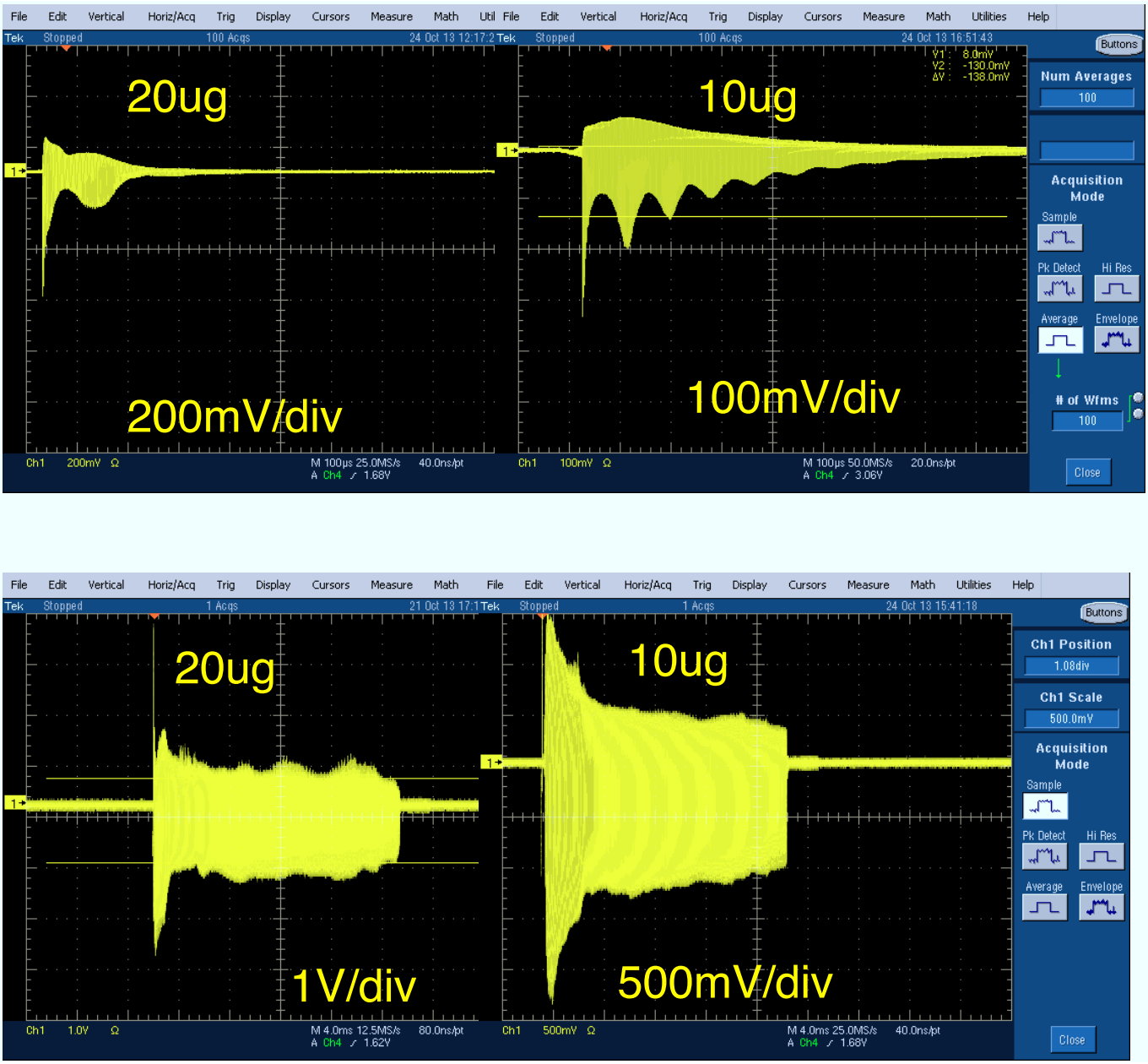

図 7: Comparison (Sec.3.1)