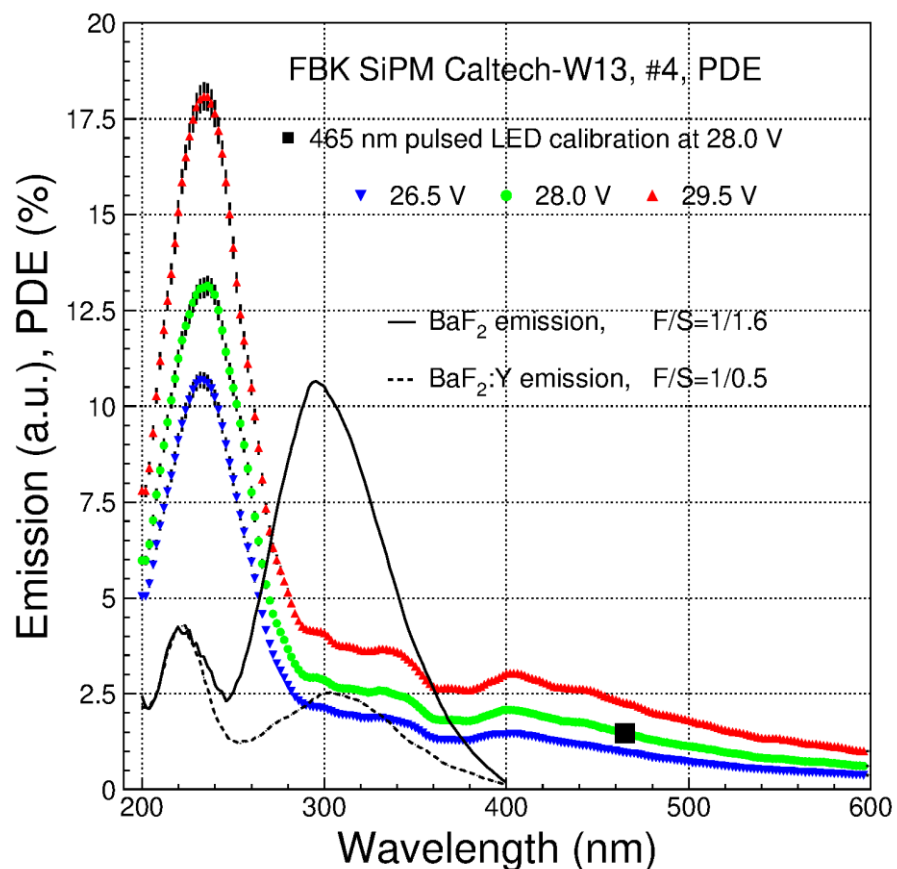
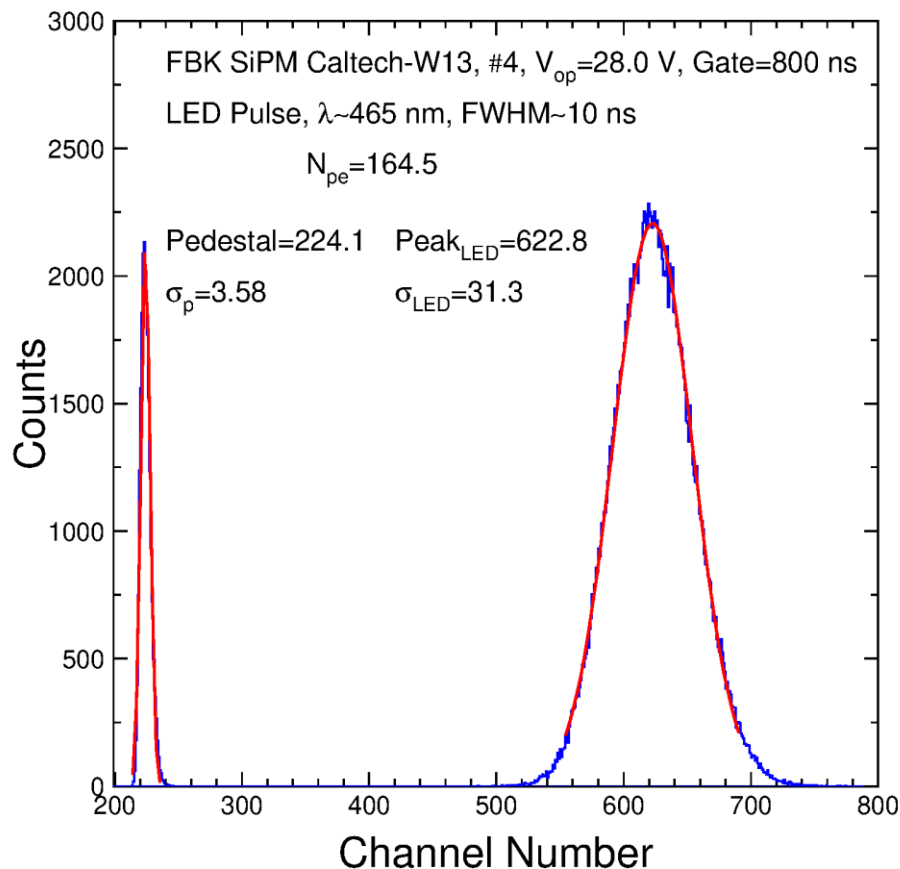


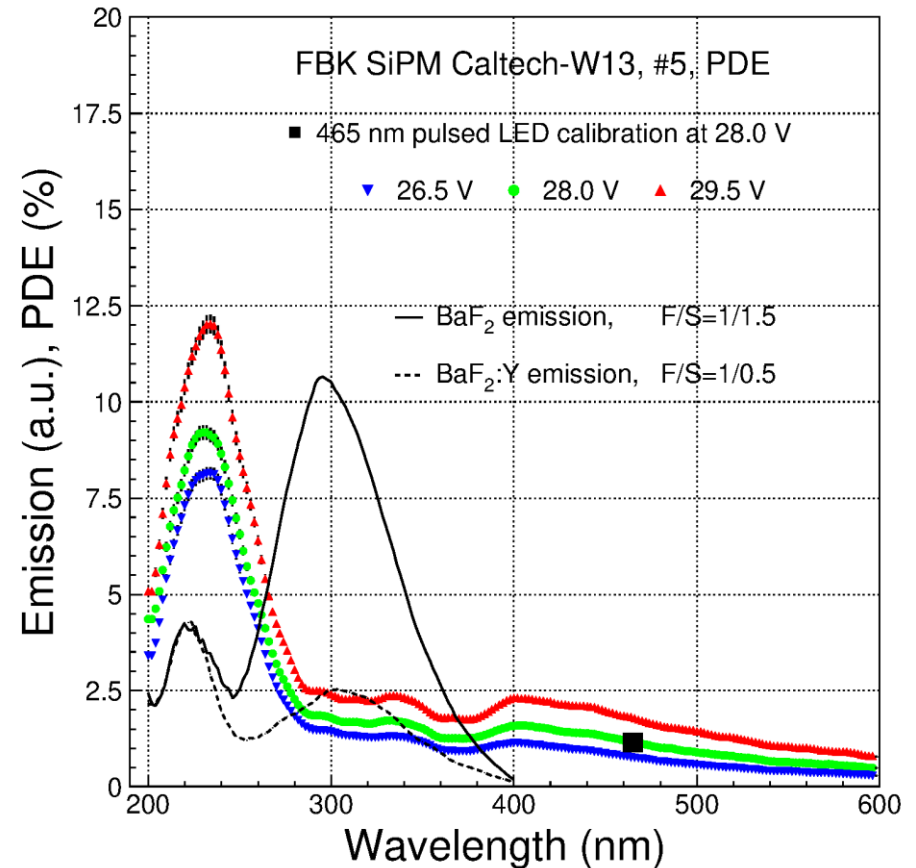
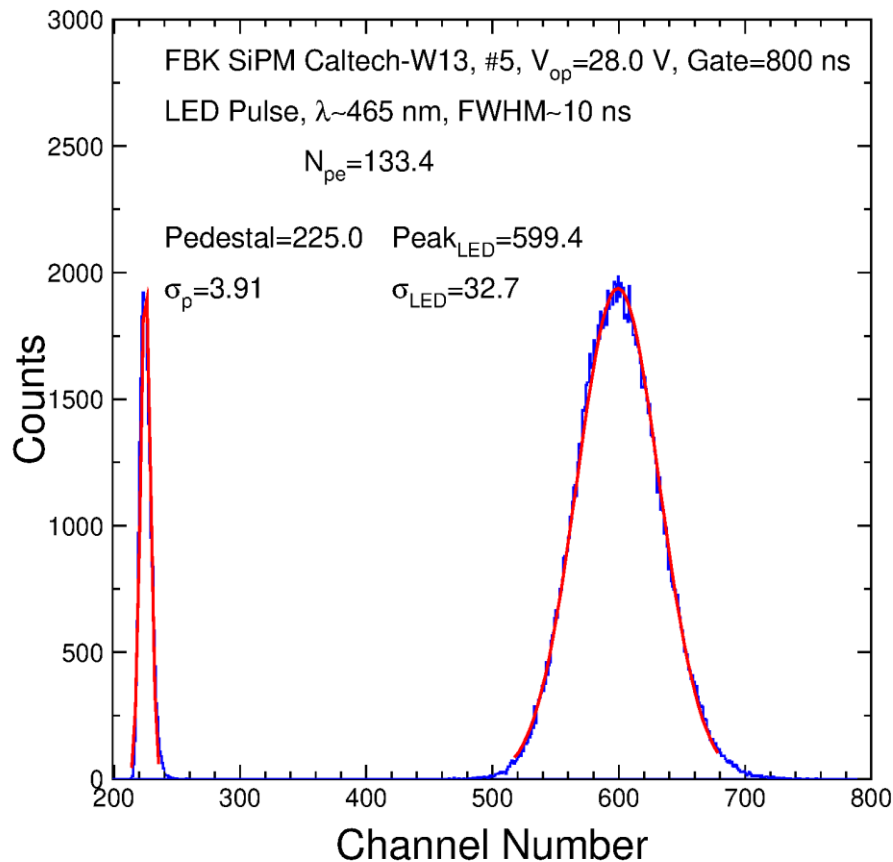
FBK SiPM: Caltech-W13, #4

Input photons (465 nm LED pulse on 30 mm² active area): 13230 p.e.# at 28.0 V: 164.5, PDE (465nm) = 1.46% with ENF of 1.17 included
PDE(λ) at 200-600 nm measured with V_{op} = 26.5, 28.0 and 29.5 V



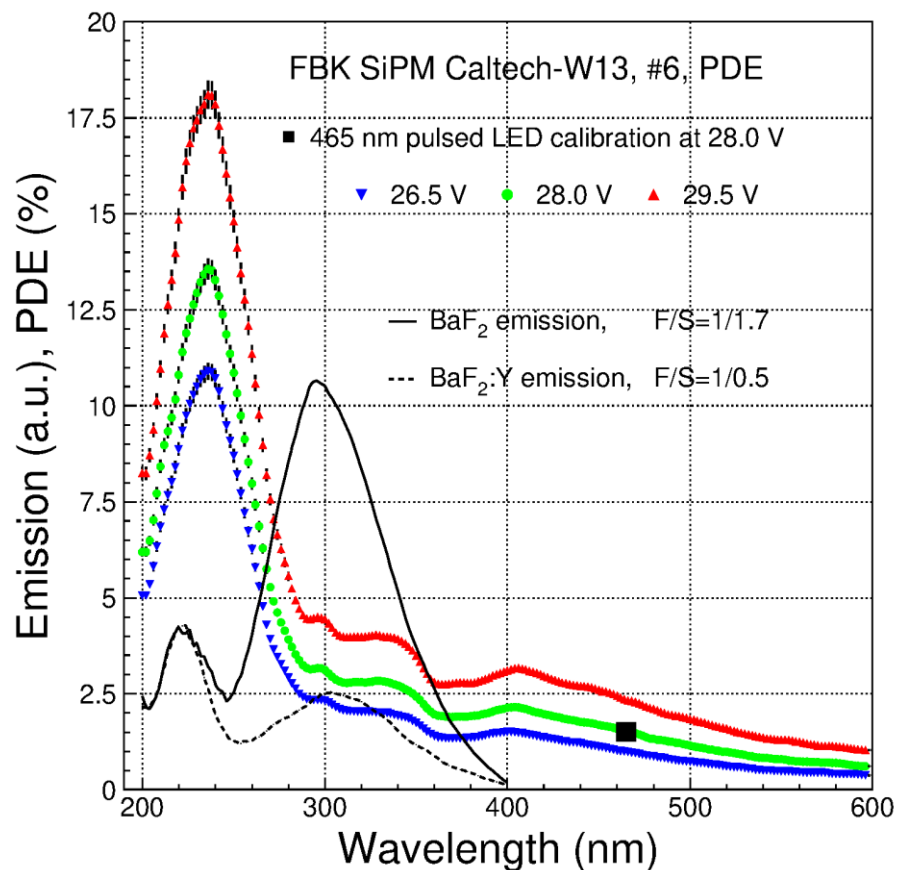
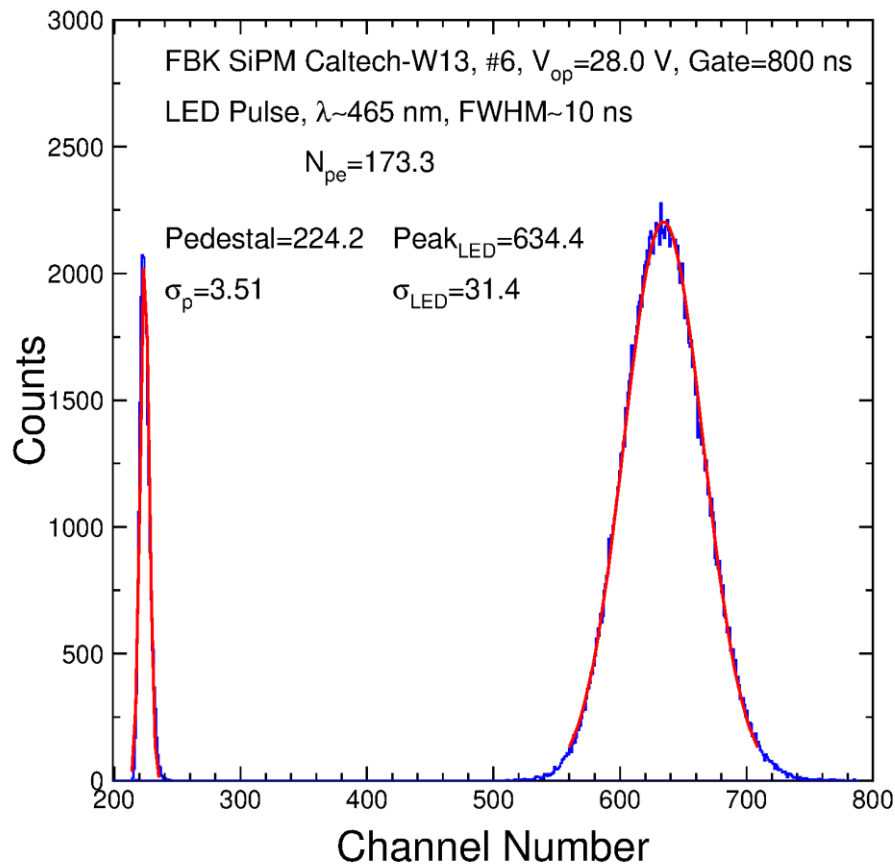
FBK SiPM: Caltech-W13, #5

Input photons (465 nm LED pulse on 30 mm² active area): 13230
p.e.# at 28.0 V: 133.4, PDE (465nm) = 1.15% with ENF of 1.14 included
PDE(λ) at 200-600 nm measured with V_{op} = 26.5, 28.0 and 29.5 V .



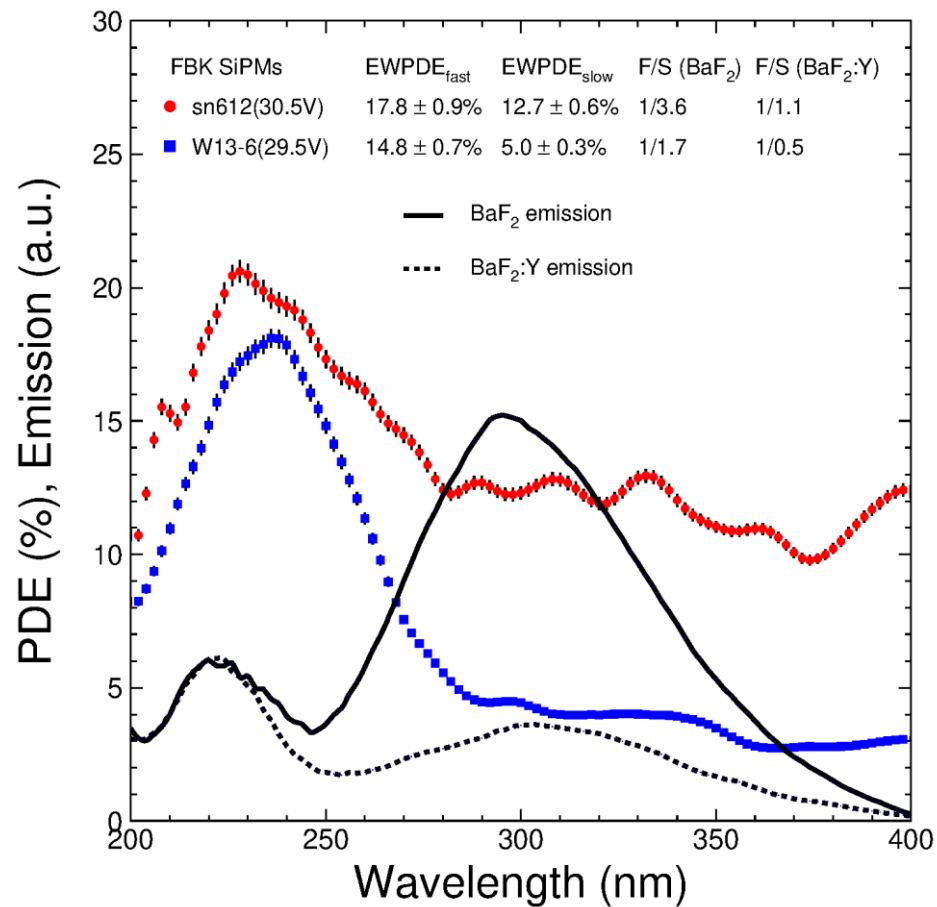
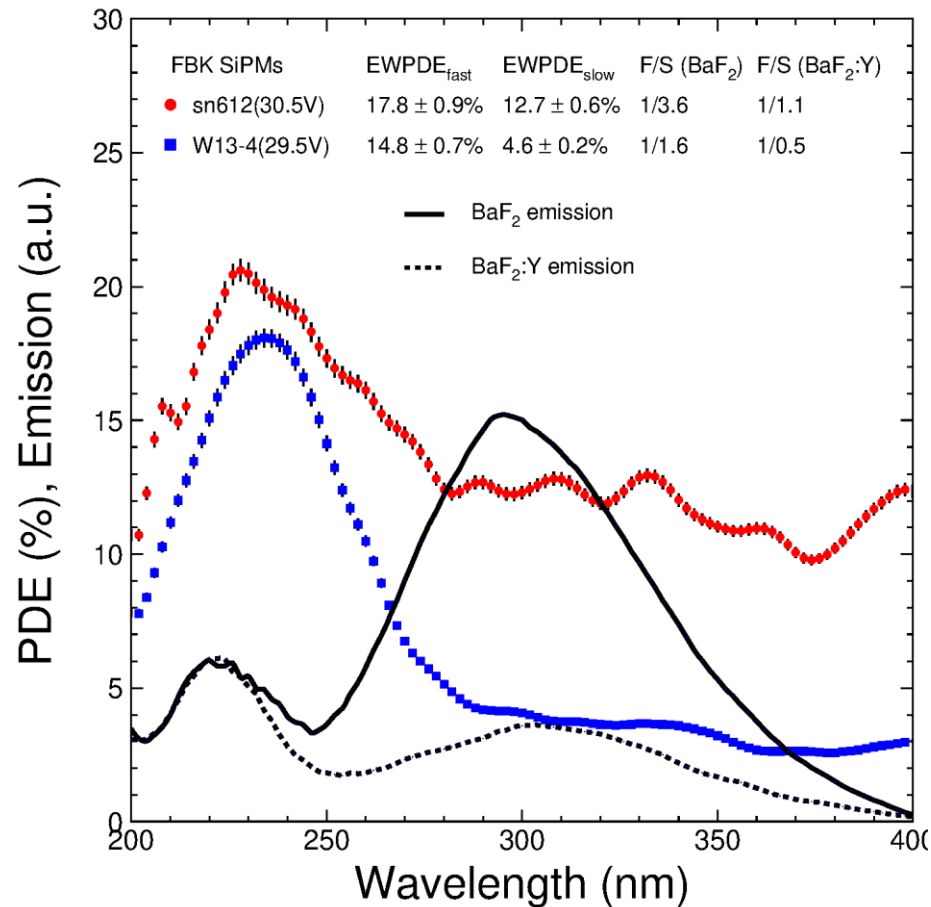
FBK SiPM: Caltech-W13, #6

Input photons (465 nm LED pulse on 30 mm² active area): 13230 p.e.# at 28.0 V: 173.3, PDE (465nm) =1.51% with ENF of 1.15 included
PDE(λ) at 200-600 nm measured with V_{op} = 26.5, 28.0 and 29.5 V



Comparison with the Previous Batch

Fast/Slow ratio of 1/1.6 and 1/0.5 for BaF₂ and BaF₂:Y, respectively
More effective discrimination against BaF₂ slow component observed



A Brief Summary

More effective discrimination against BaF₂ slow component observed

SN	V _{br} (V)	V _{op} (V)	EWPDE _{fast} (%)	EWPDE _{slow} (%)	F/S (BaF ₂)	F/S (BaF ₂ :Y)
Sn612 (Ref.)	25.0	30.5	17.8	12.7	1/3.6	1/1.1
W13-4	25.58	29.5	14.8	4.6	1/1.6	1/0.5
W13-5	25.58	29.5	9.9	2.8	1/1.5	1/0.5
W13-6	25.58	29.5	14.8	5.0	1/1.7	1/0.5