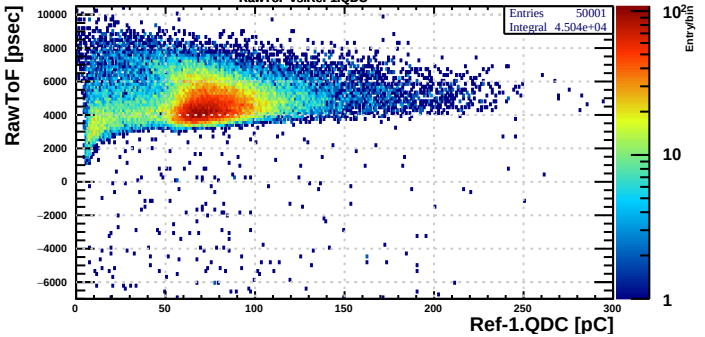
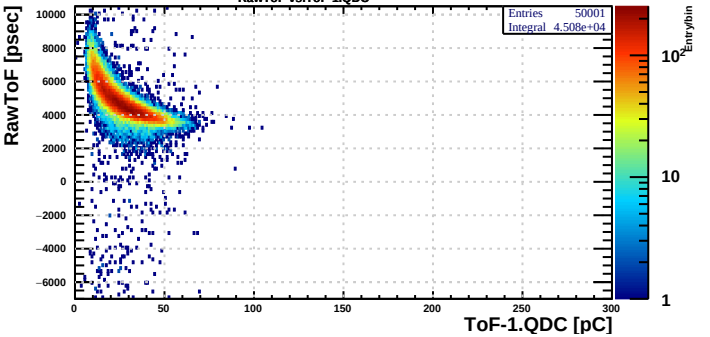
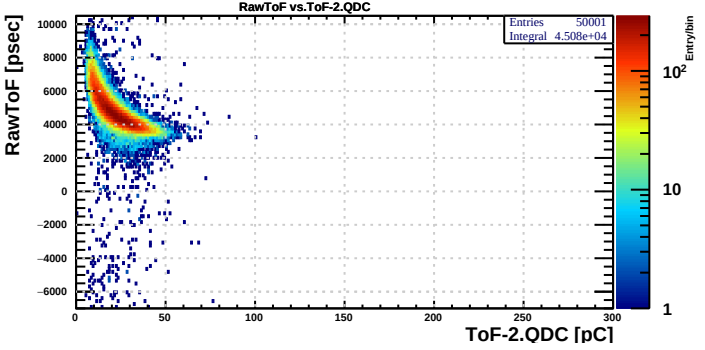
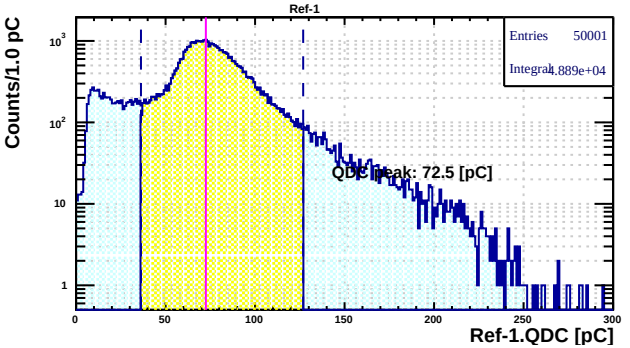
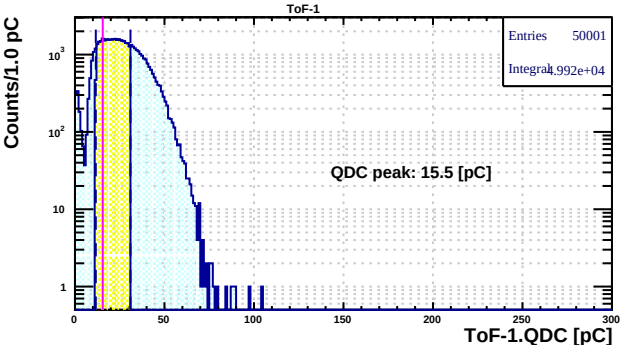
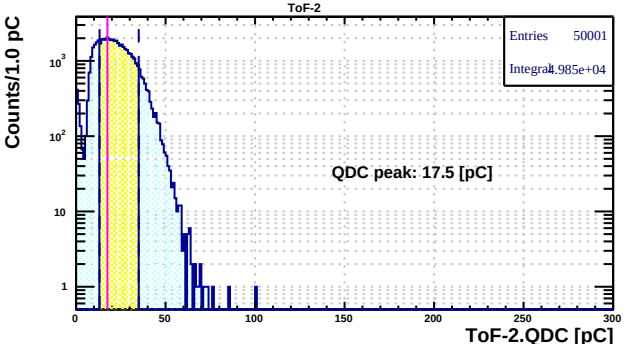

RawToF vs.Ref-1.QDC
Entries 50001
Integral 4.504e+04
RawToF [psec]
Ref-1.QDC [pC]
Entry/bin

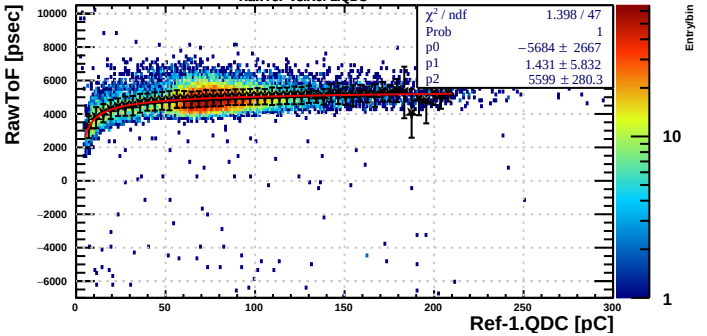

RawToF vs.ToF-1.QDC
Entries 50001
Integral 4.508e+04
RawToF [psec]
ToF-1.QDC [pC]
Entry/bin

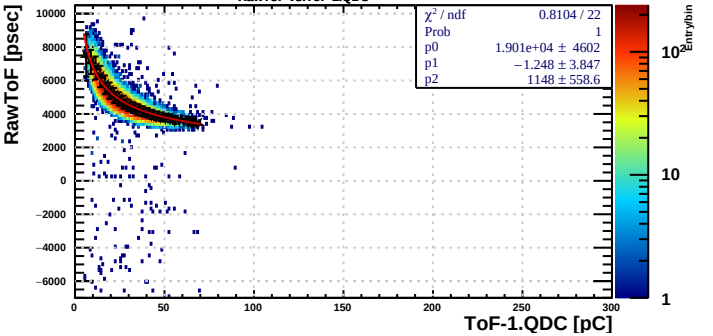

RawToF vs.ToF-2.QDC
Entries 50001
Integral 4.508e+04
RawToF [psec]
ToF-2.QDC [pC]
Entry/bin

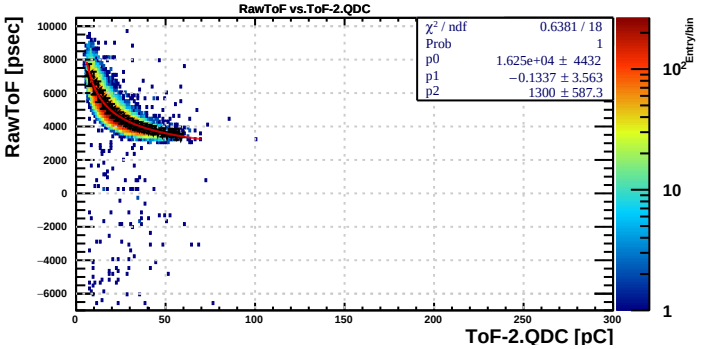

Ref-1
Entries 50001
Integral 4.889e+04
QDC peak: 72.5 [pC]
Counts/1.0 pC
Ref-1.QDC [pC]

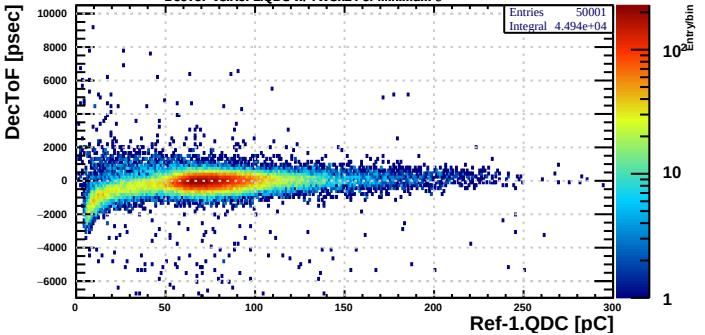

ToF-1
Entries 50001
Integral 4.992e+04
QDC peak: 15.5 [pC]
Counts/1.0 pC
ToF-1.QDC [pC]

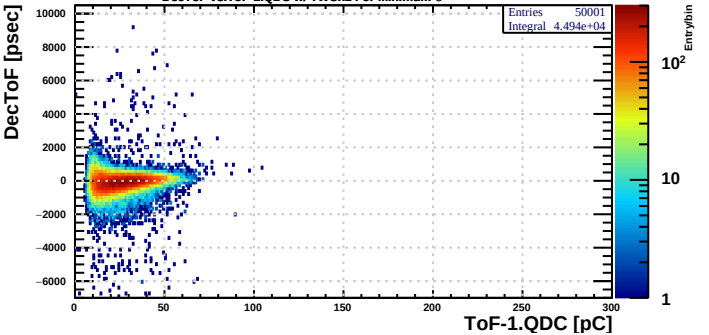

ToF-2
Entries 50001
Integral 4.985e+04
QDC peak: 17.5 [pC]
Counts/1.0 pC
ToF-2.QDC [pC]

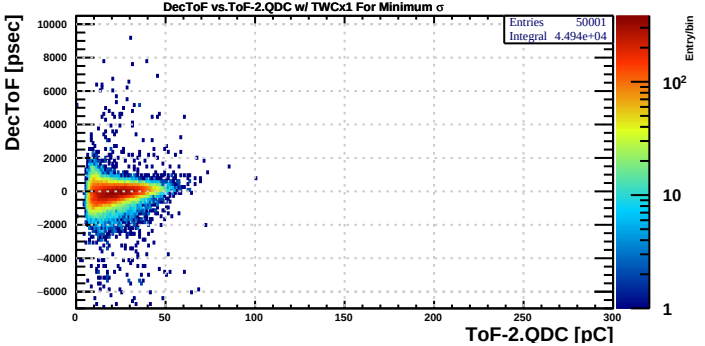

RawToF vs.Ref-1.QDC
RawToF [psec]
Ref-1.QDC [pC]
Entry/bin
χ² / ndf 1.398 / 47
Prob 1
p0 −5684 ± 2667
p1 1.431 ± 5.832
p2 5599 ± 280.3

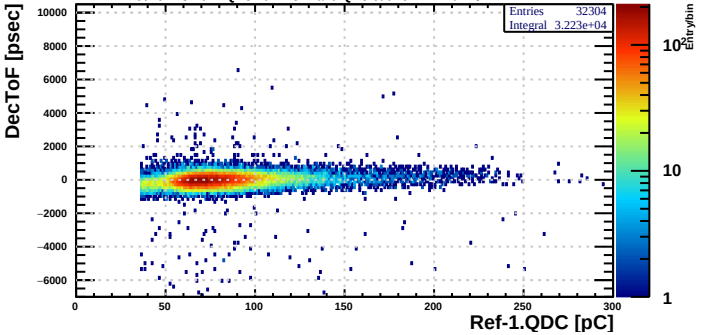

RawToF vs.ToF-1.QDC
RawToF [psec]
ToF-1.QDC [pC]
Entry/bin
χ² / ndf 0.8104 / 22
Prob 1
p0 1.901e+04 ± 4602
p1 −1.248 ± 3.847
p2 1148 ± 558.6

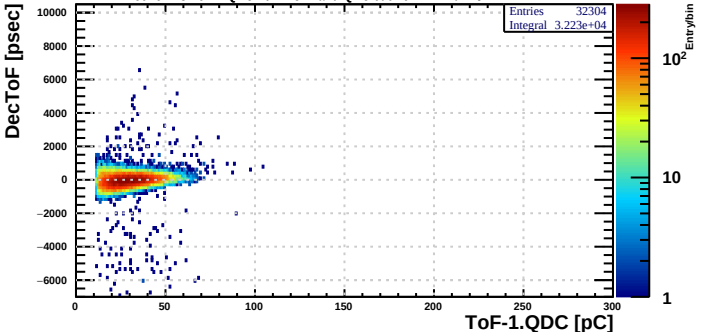

RawToF vs.ToF-2.QDC
RawToF [psec]
ToF-2.QDC [pC]
Entry/bin
χ² / ndf 0.6381 / 18
Prob 1
p0 1.625e+04 ± 4432
p1 −0.1337 ± 3.563
p2 1300 ± 587.3

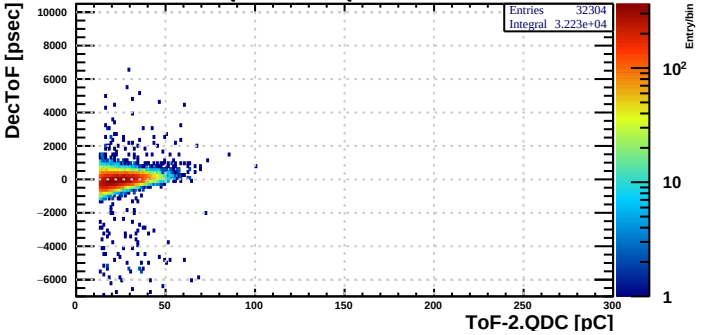

DecToF vs.Ref-1.QDC w/ TWCx1 For Minimum σ
Entries 50001
Integral 4.494e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

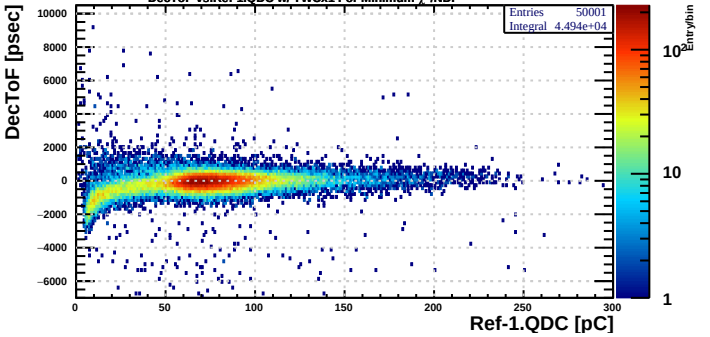

DecToF vs.ToF-1.QDC w/ TWCx1 For Minimum σ
Entries 50001
Integral 4.494e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

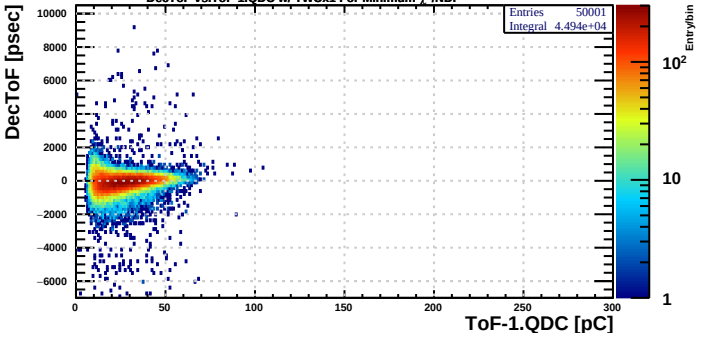

DecToF vs.ToF-2.QDC w/ TWCx1 For Minimum σ
Entries 50001
Integral 4.494e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

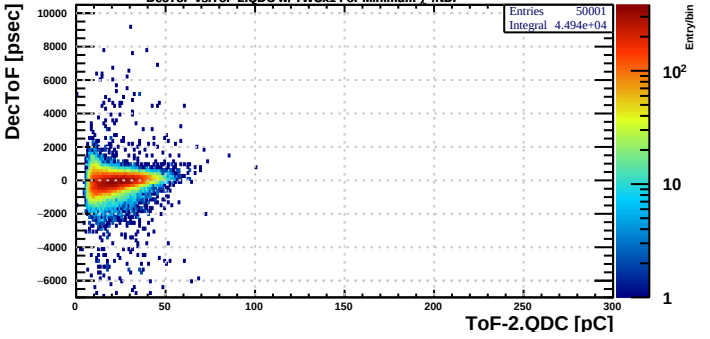

DecToF vs.Ref-1.QDC w/ TWCx1 and QDC cut For Minimum σ
Entries 32304
Integral 3.223e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

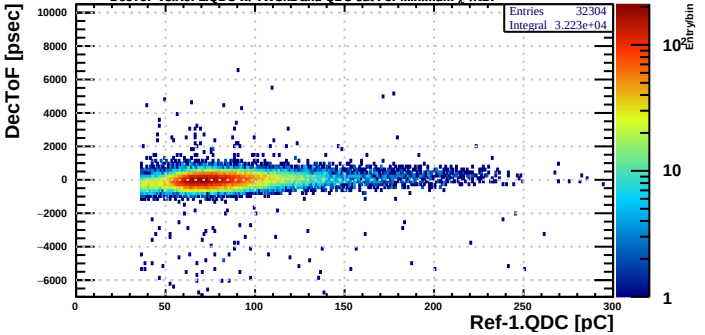

DecToF vs.ToF-1.QDC w/ TWCx1 and QDC cut For Minimum σ
Entries 32304
Integral 3.223e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

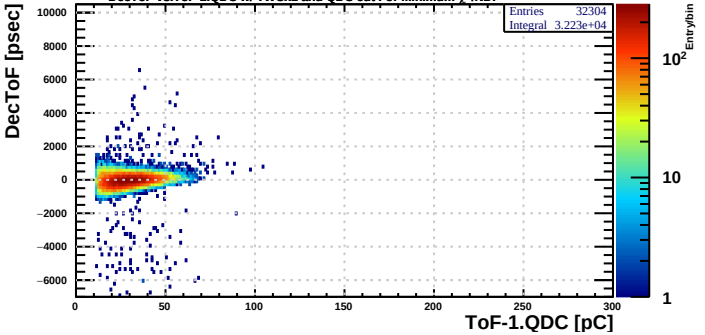

DecToF vs.ToF-2.QDC w/ TWCx1 and QDC cut For Minimum σ
Entries 32304
Integral 3.223e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

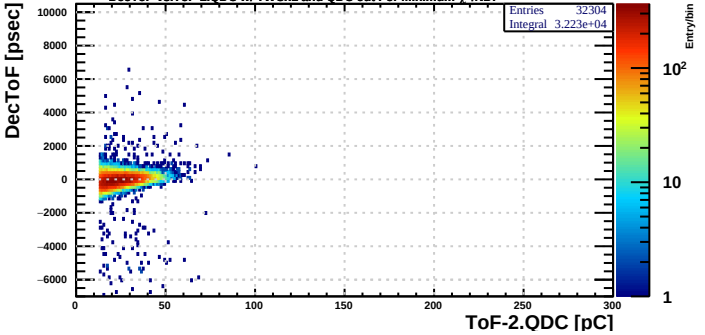

DecToF vs.Ref-1.QDC w/ TWCx1 For Minimum χ²/NDF
Entries 50001
Integral 4.494e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

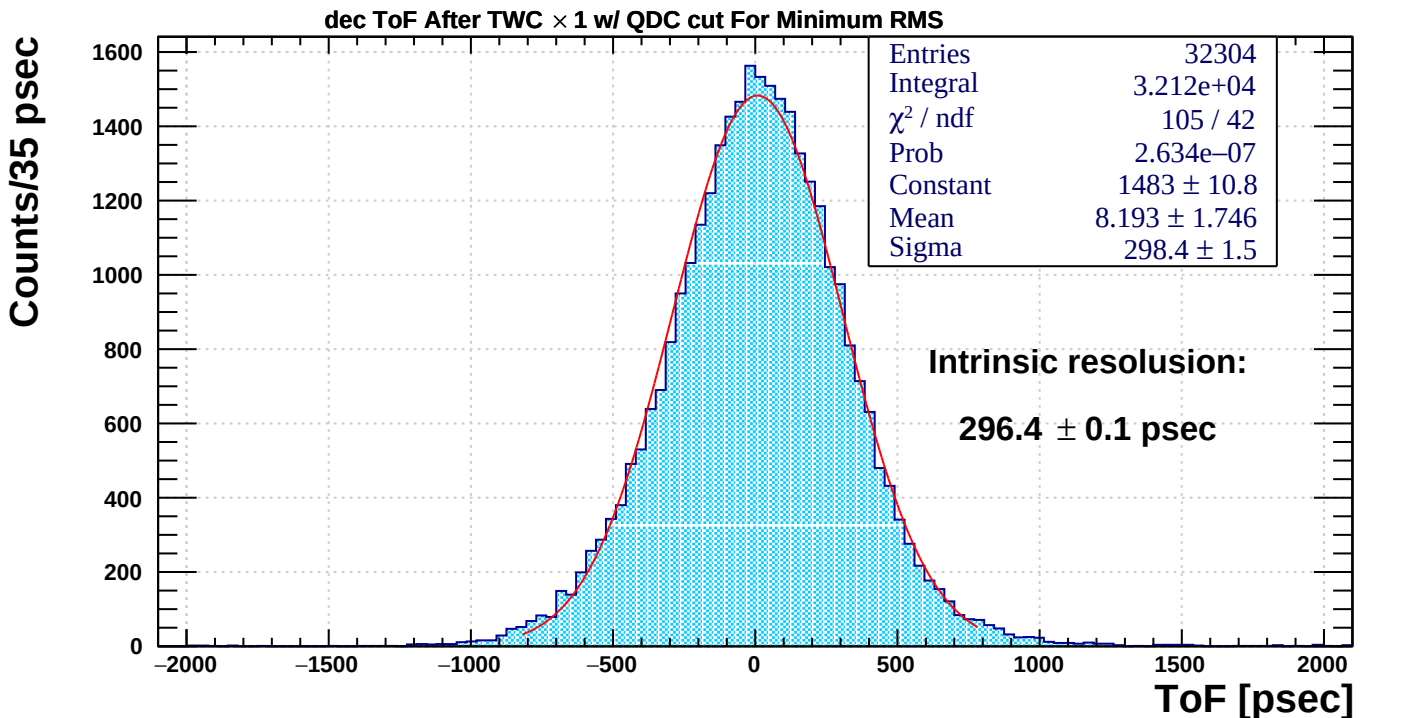

DecToF vs.ToF-1.QDC w/ TWCx1 For Minimum χ²/NDF
Entries 50001
Integral 4.494e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

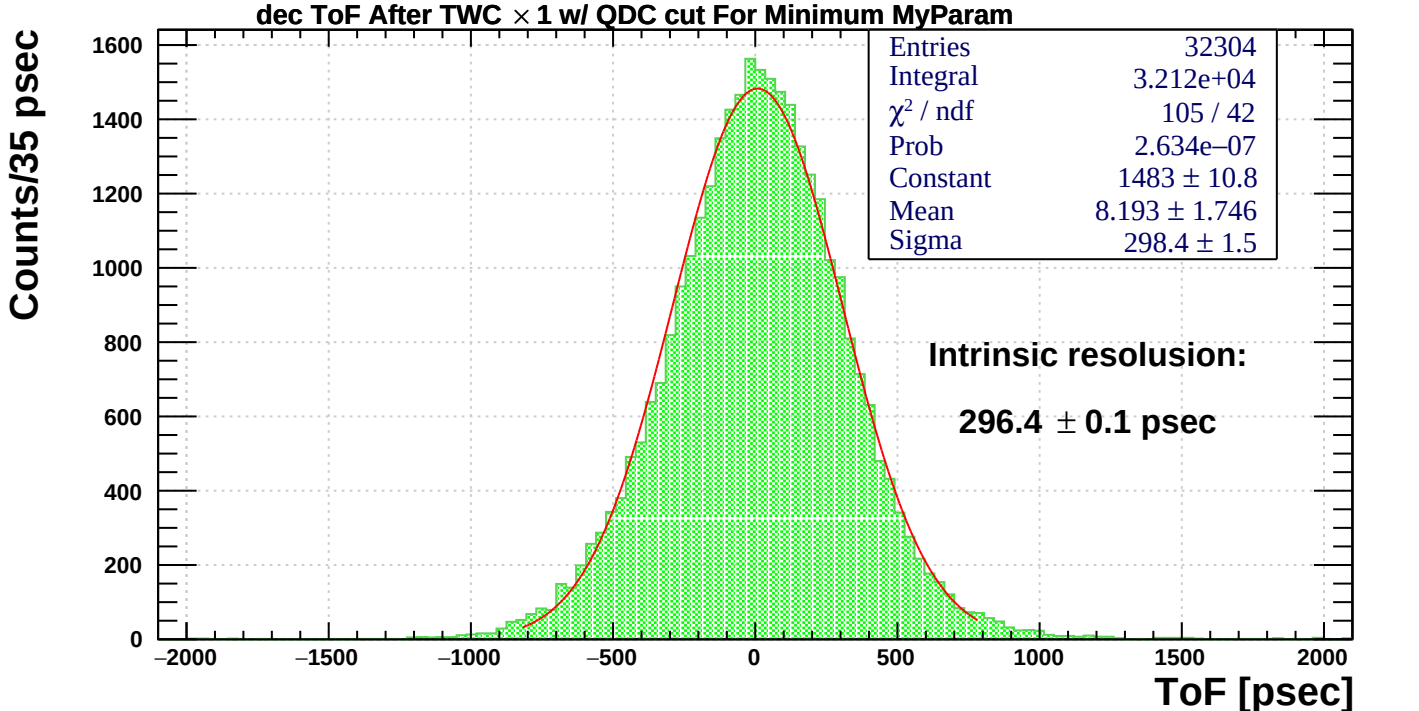

DecToF vs.ToF-2.QDC w/ TWCx1 For Minimum χ²/NDF
Entries 50001
Integral 4.494e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

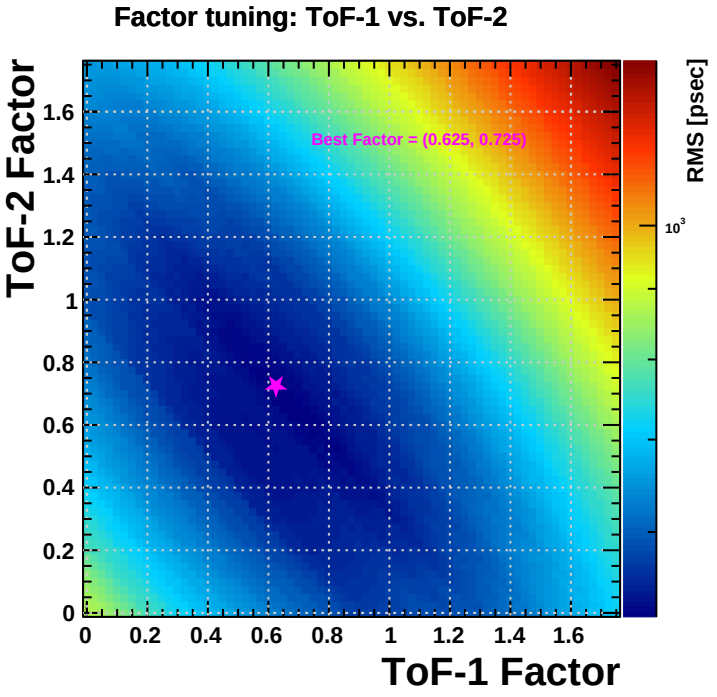

DecToF vs.Ref-1.QDC w/ TWCx1 and QDC cut For Minimum χ²/NDF
Entries 32304
Integral 3.223e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

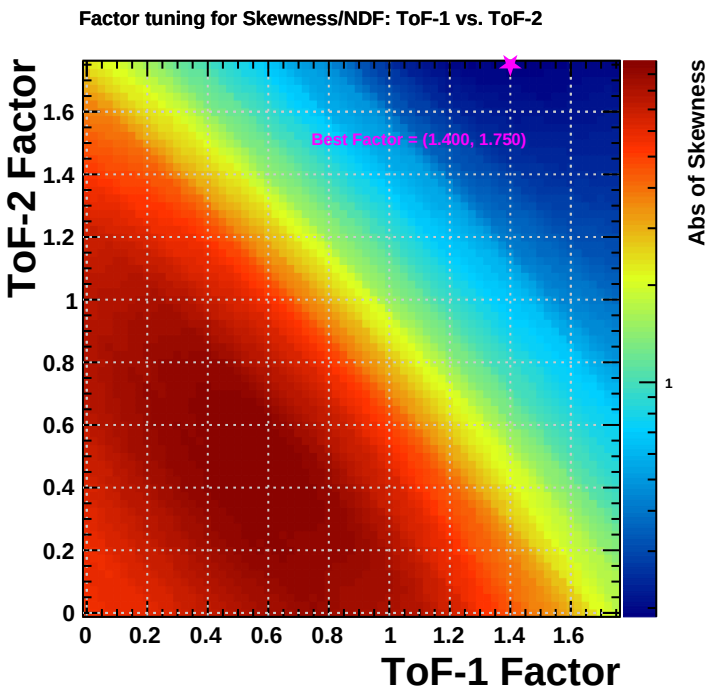

DecToF vs.ToF-1.QDC w/ TWCx1 and QDC cut For Minimum χ²/NDF
Entries 32304
Integral 3.223e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

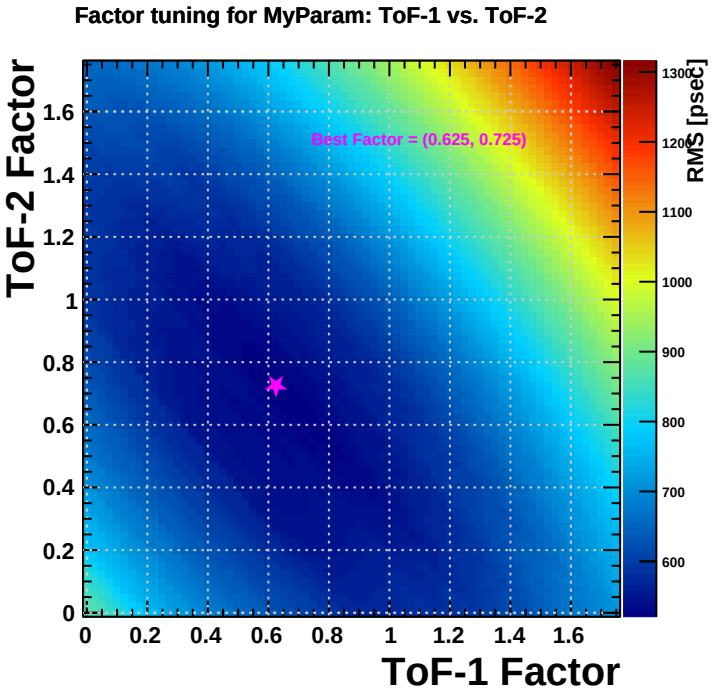

DecToF vs.ToF-2.QDC w/ TWCx1 and QDC cut For Minimum χ²/NDF
Entries 32304
Integral 3.223e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

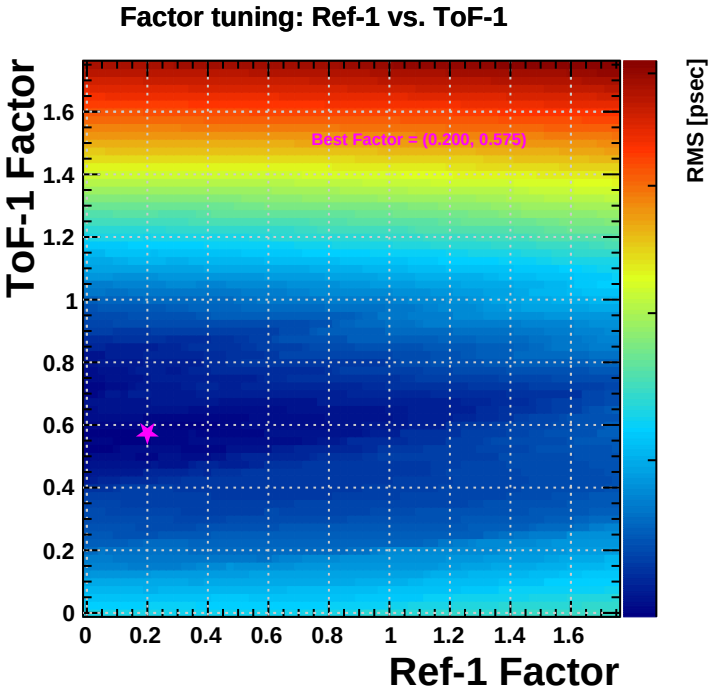

dec ToF After TWC × 1 w/ QDC cut For Minimum RMS
Counts/35 psec
ToF [psec]
Entries 32304
Integral 3.212e+04
χ² / ndf 105 / 42
Prob 2.634e–07
Constant 1483 ± 10.8
Mean 8.193 ± 1.746
Sigma 298.4 ± 1.5
Intrinsic resolusion:
296.4 ± 0.1 psec
0
200
400
600
800
1000
1200
1400
1600
–2000
–1500
–1000
–500
0
500
1000
1500
2000

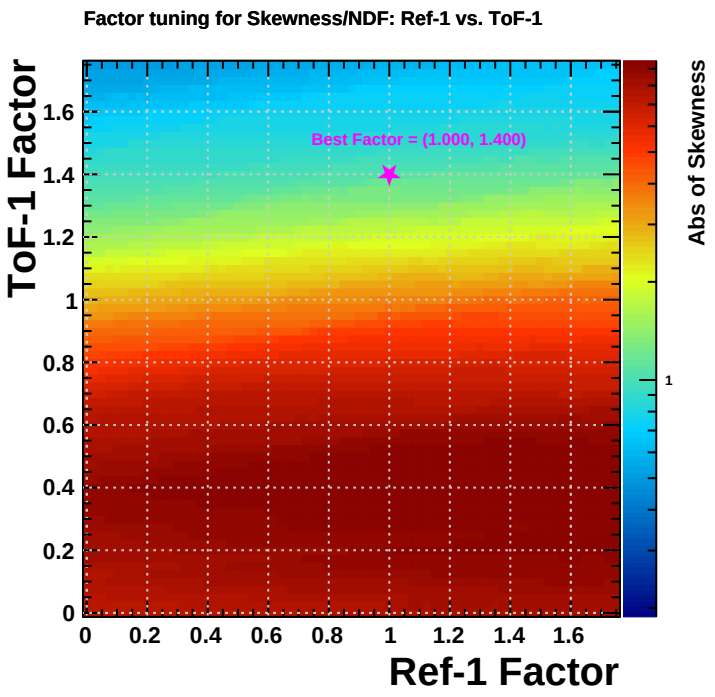

dec ToF After TWC × 1 w/ QDC cut For Minimum MyParam
Entries 32304
Integral 3.212e+04
χ² / ndf 105 / 42
Prob 2.634e–07
Constant 1483 ± 10.8
Mean 8.193 ± 1.746
Sigma 298.4 ± 1.5
Intrinsic resolusion:
296.4 ± 0.1 psec
Counts/35 psec
ToF [psec]
0
200
400
600
800
1000
1200
1400
1600
–2000
–1500
–1000
–500
0
500
1000
1500
2000

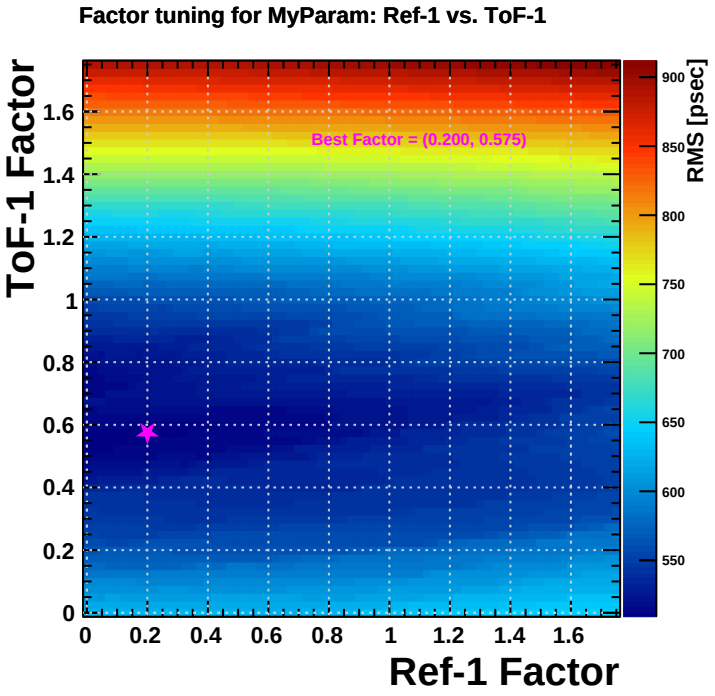

Factor tuning: ToF-1 vs. ToF-2
Best Factor = (0.625, 0.725)
ToF-2 Factor
ToF-1 Factor
RMS [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
10^3

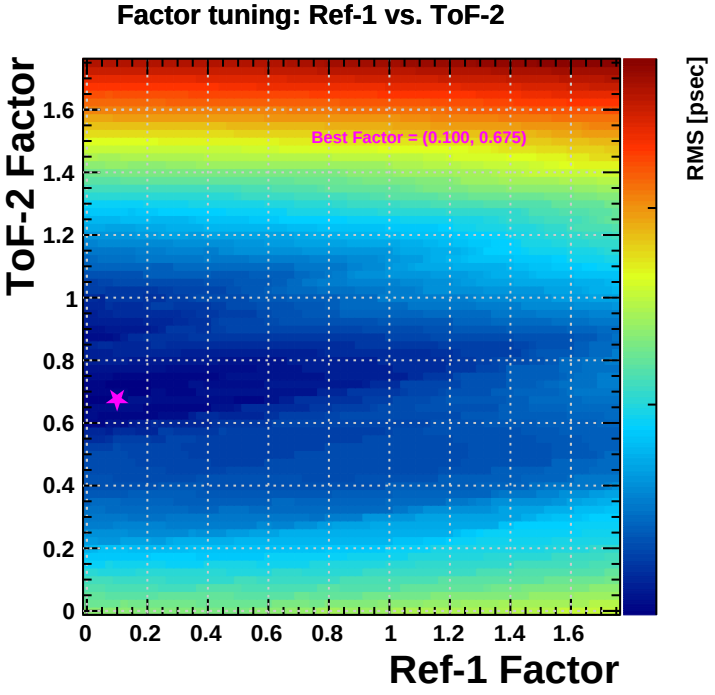

Factor tuning for Skewness/NDF: ToF-1 vs. ToF-2
Best Factor = (1.400, 1.750)
ToF-2 Factor
ToF-1 Factor
Abs of Skewness
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

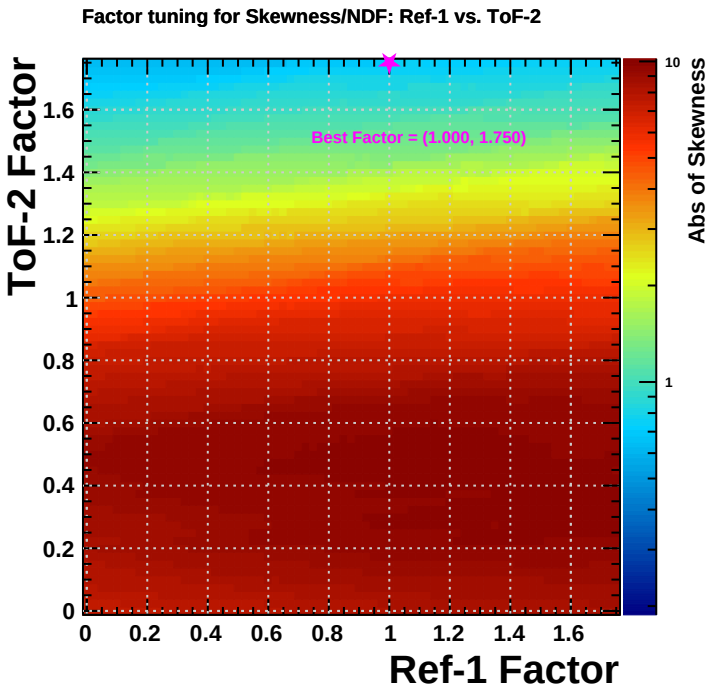

Factor tuning for MyParam: ToF-1 vs. ToF-2
Best Factor = (0.625, 0.725)
ToF-2 Factor
ToF-1 Factor
RMS [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1300
1200
1100
1000
900
800
700
600

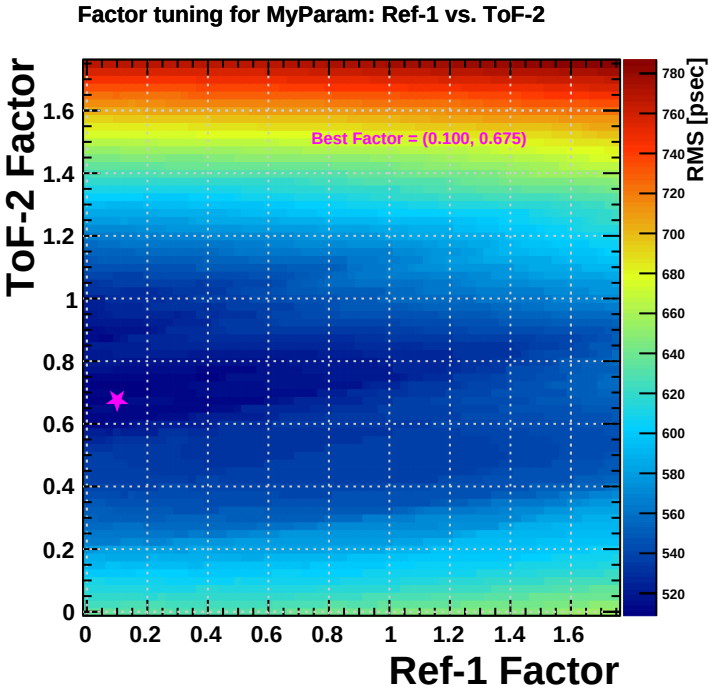

Factor tuning: Ref-1 vs. ToF-1
Best Factor = (0.200, 0.575)
ToF-1 Factor
Ref-1 Factor
RMS [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6


Factor tuning for Skewness/NDF: Ref-1 vs. ToF-1
Best Factor = (1.000, 1.400)
ToF-1 Factor
Ref-1 Factor
Abs of Skewness
1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6


Factor tuning for MyParam: Ref-1 vs. ToF-1
Best Factor = (0.200, 0.575)
ToF-1 Factor
Ref-1 Factor
RMS [psec]
900
850
800
750
700
650
600
550
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6


Factor tuning: Ref-1 vs. ToF-2
Best Factor = (0.100, 0.675)
ToF-2 Factor
Ref-1 Factor
RMS [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
520
540
560
580
600
620
640
660
680
700
720
740
760
780


Factor tuning for Skewness/NDF: Ref-1 vs. ToF-2
Best Factor = (1.000, 1.750)
ToF-2 Factor
Ref-1 Factor
Abs of Skewness
1
10
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6


Factor tuning for MyParam: Ref-1 vs. ToF-2
Best Factor = (0.100, 0.675)
ToF-2 Factor
Ref-1 Factor
RMS [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
520
540
560
580
600
620
640
660
680
700
720
740
760
780