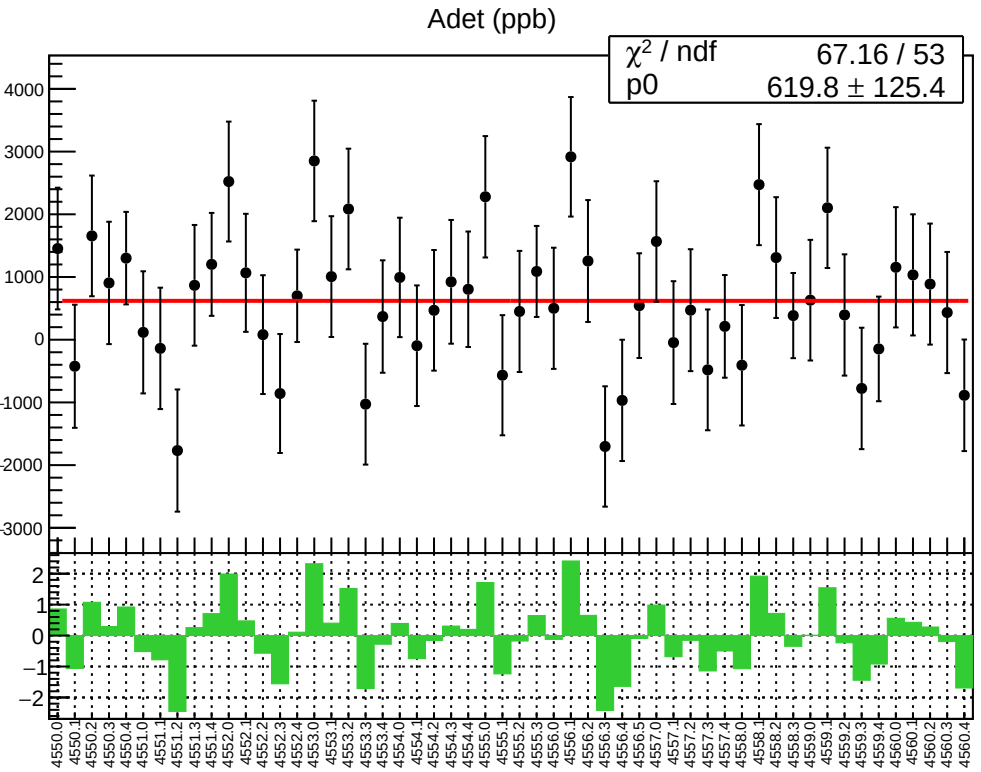
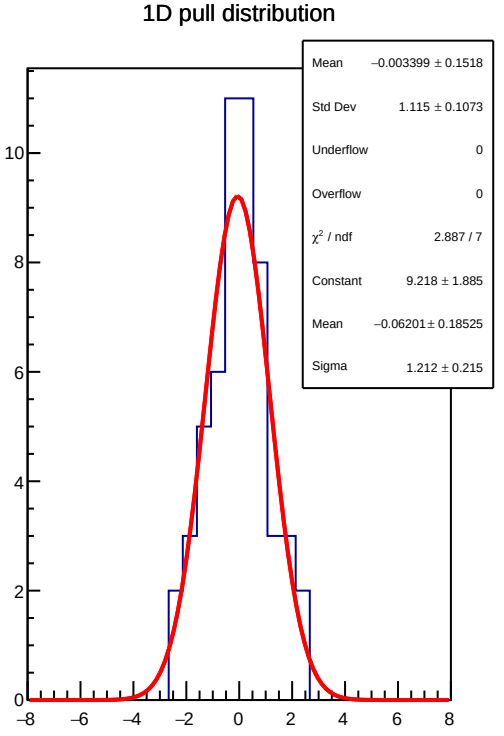
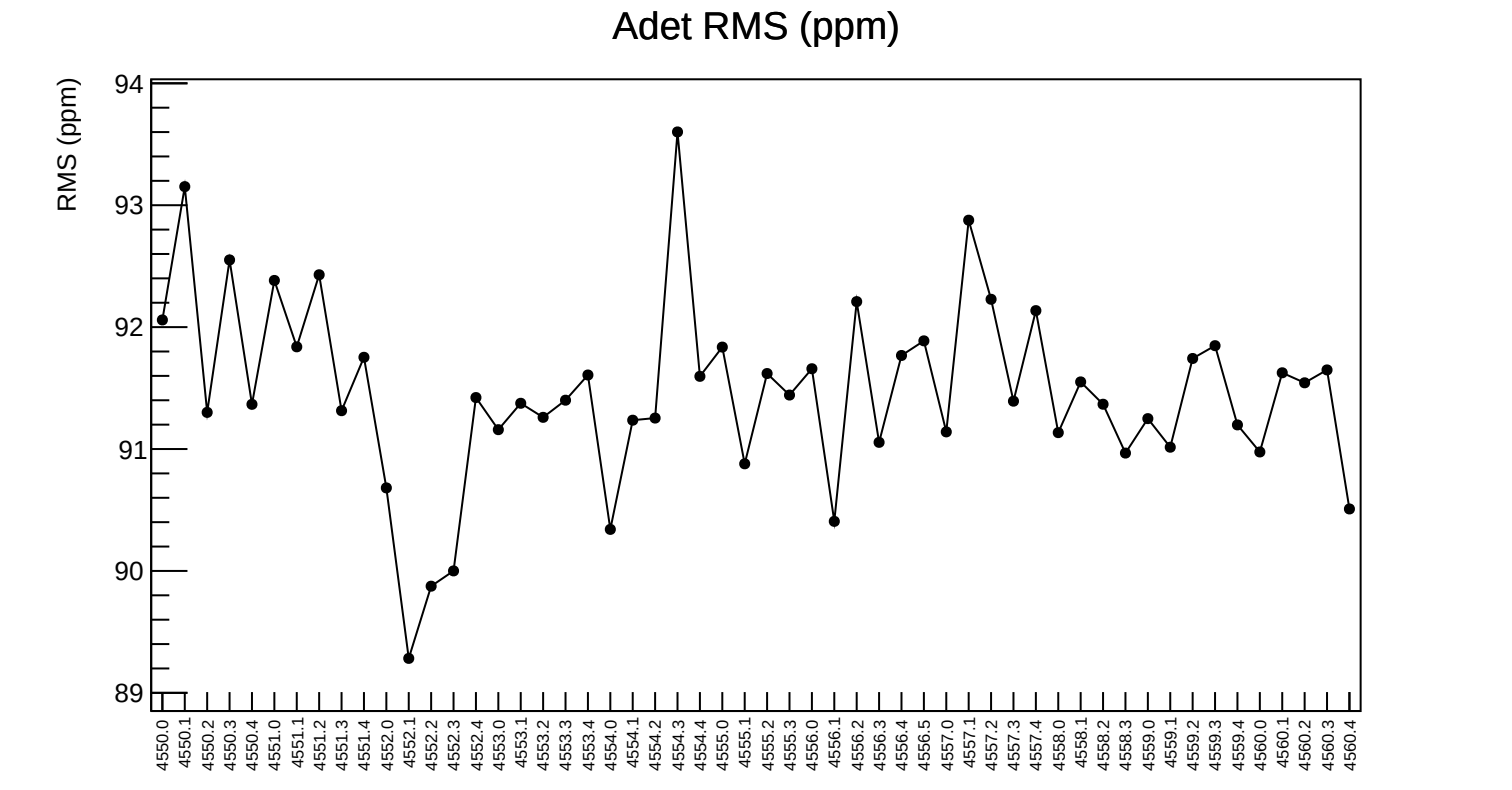
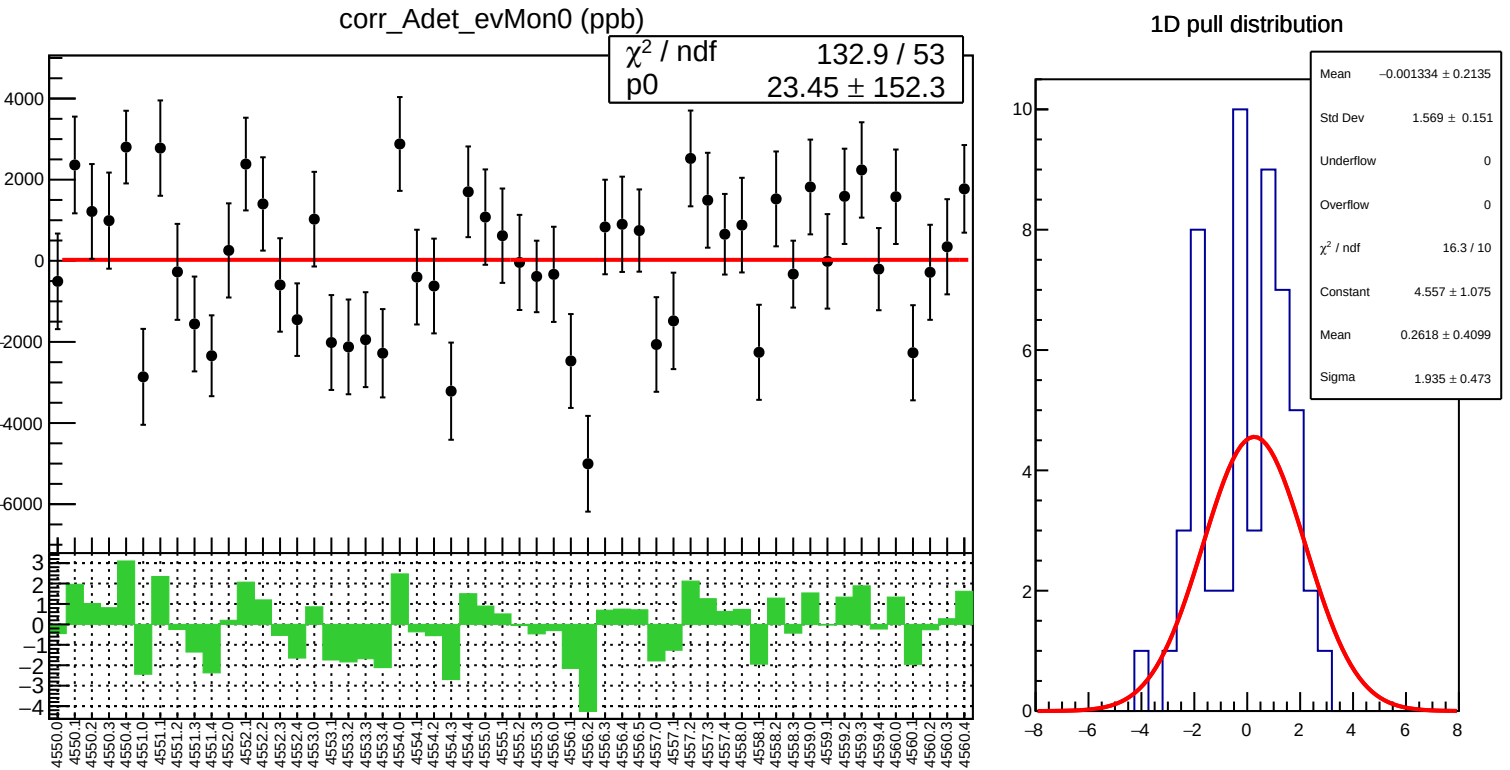
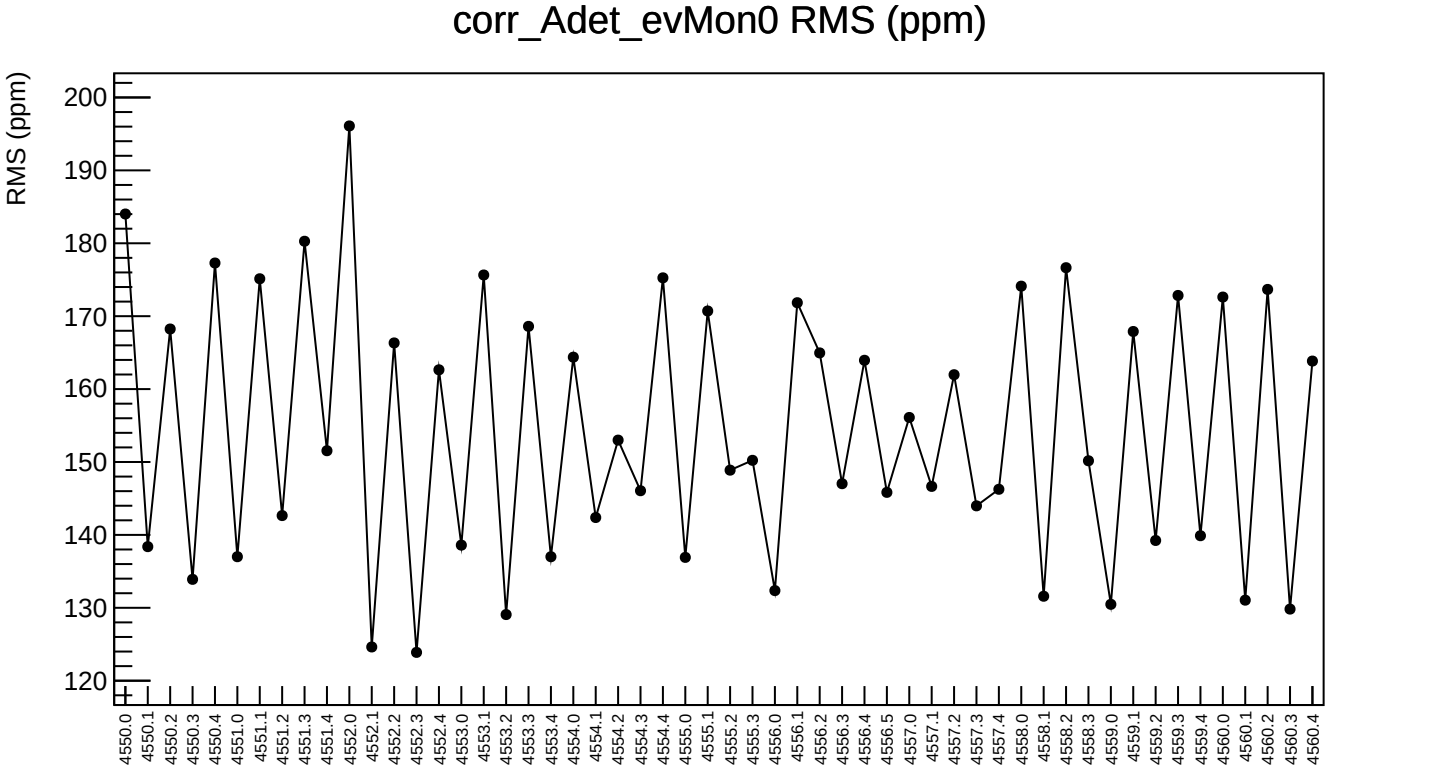
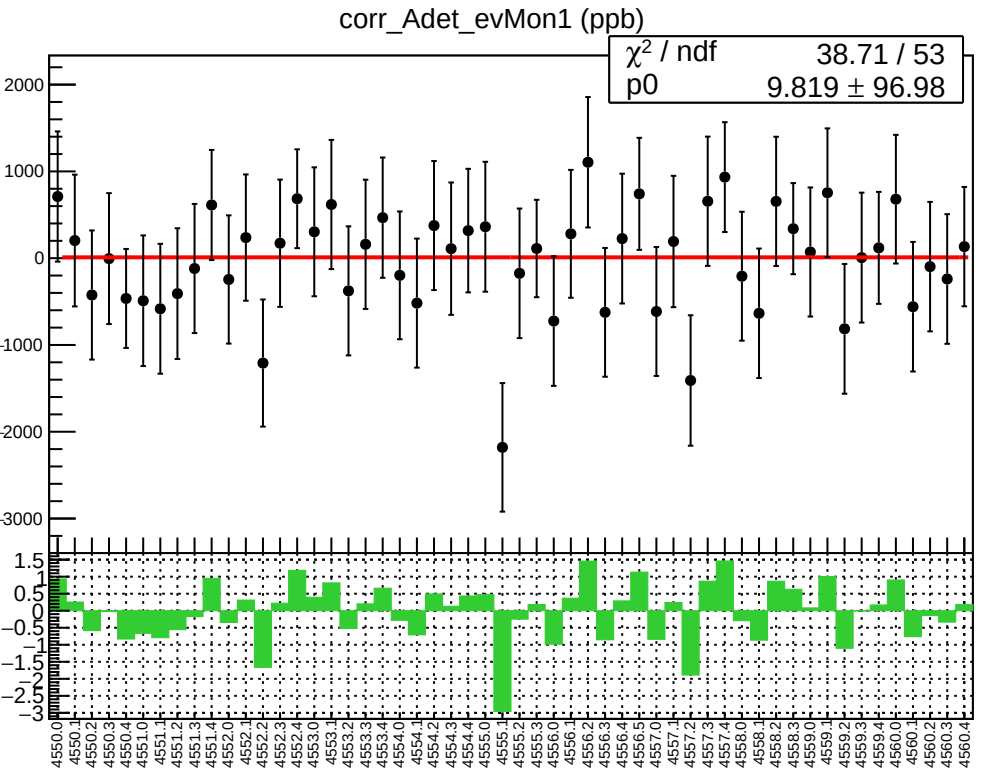

Adet (ppb)
χ² / ndf 67.16 / 53
p0 619.8 ± 125.4
4000
3000
2000
1000
0
-1000
-2000
-3000
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

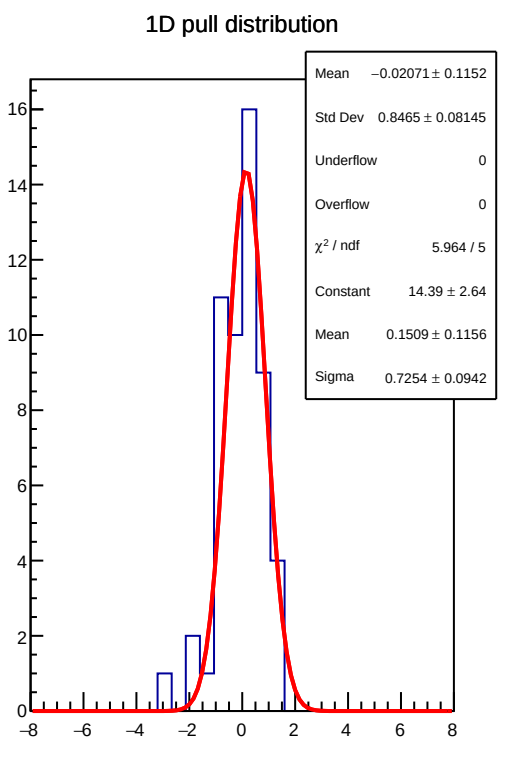

1D pull distribution
Mean −0.003399 ± 0.1518
Std Dev 1.115 ± 0.1073
Underflow 0
Overflow 0
χ² / ndf 2.887 / 7
Constant 9.218 ± 1.885
Mean −0.06201 ± 0.18525
Sigma 1.212 ± 0.215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

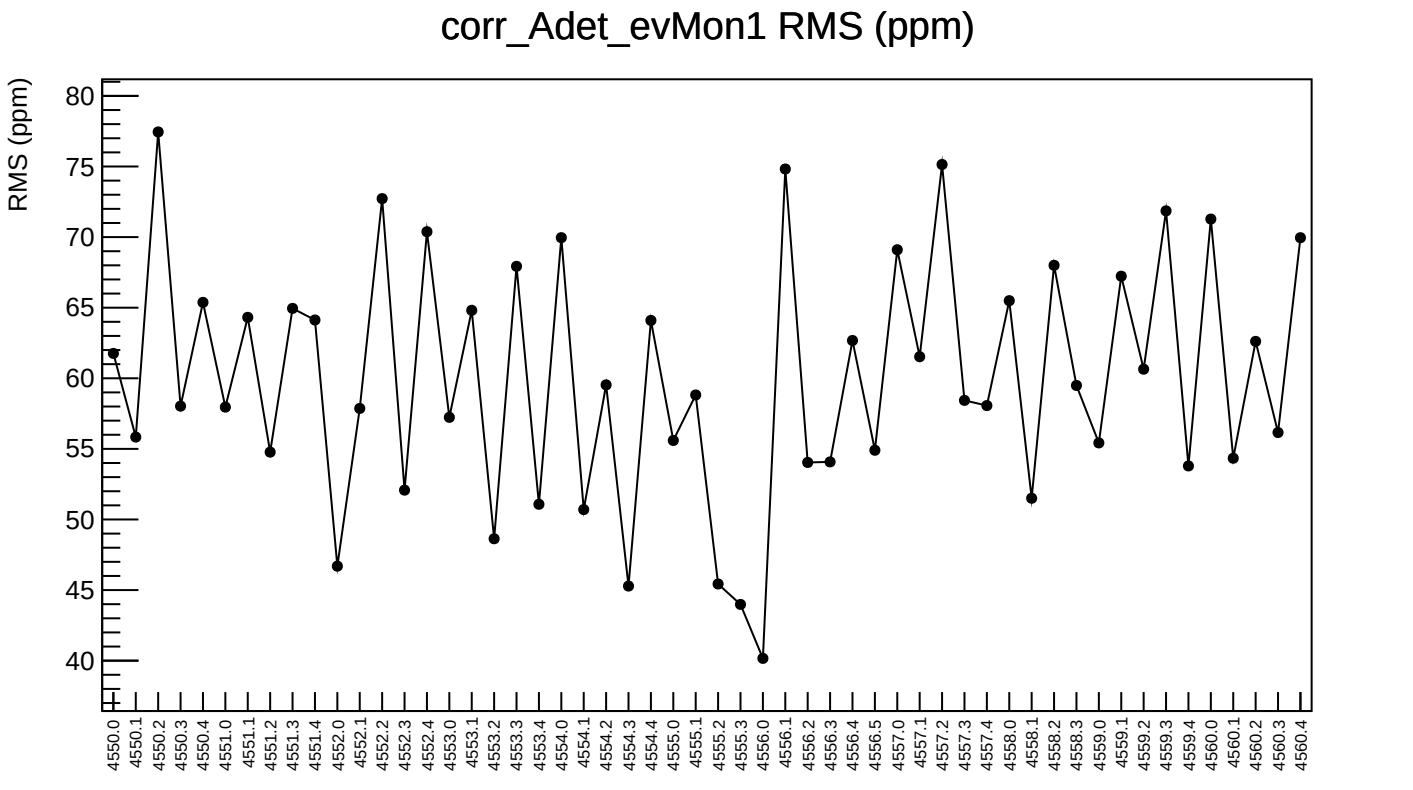

Adet RMS (ppm)
RMS (ppm)
94
93
92
91
90
89
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

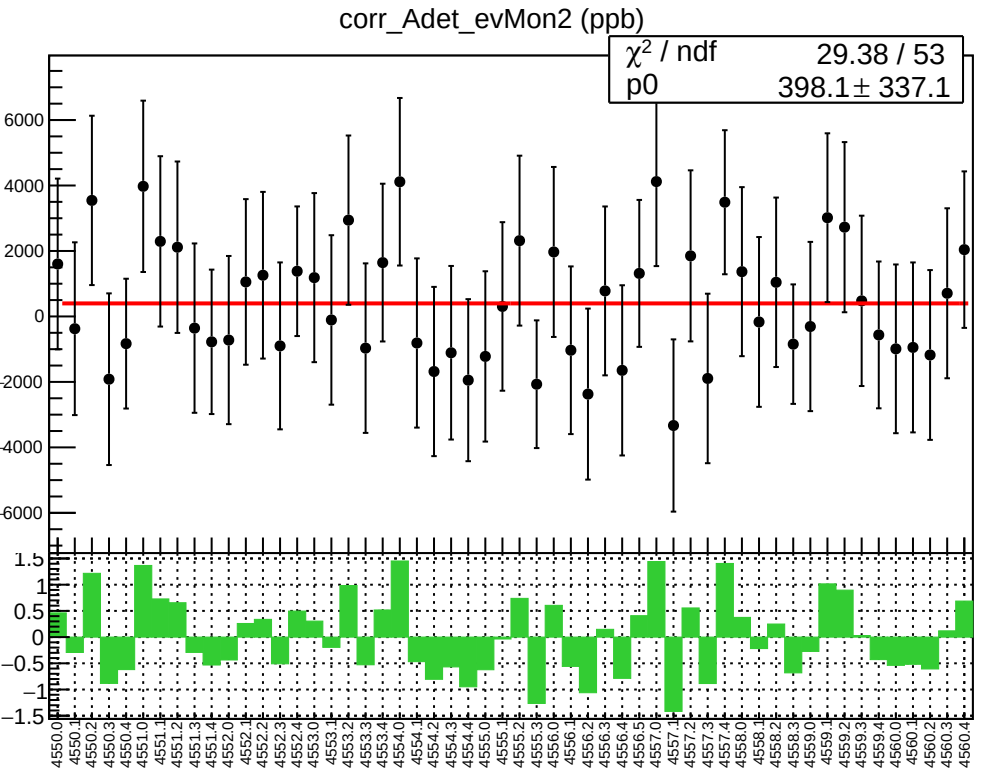

corr_Adet_evMon0 (ppb)
χ² / ndf 132.9 / 53
p0 23.45 ± 152.3
1D pull distribution
Mean −0.001334 ± 0.2135
Std Dev 1.569 ± 0.151
Underflow 0
Overflow 0
χ² / ndf 16.3 / 10
Constant 4.557 ± 1.075
Mean 0.2618 ± 0.4099
Sigma 1.935 ± 0.473

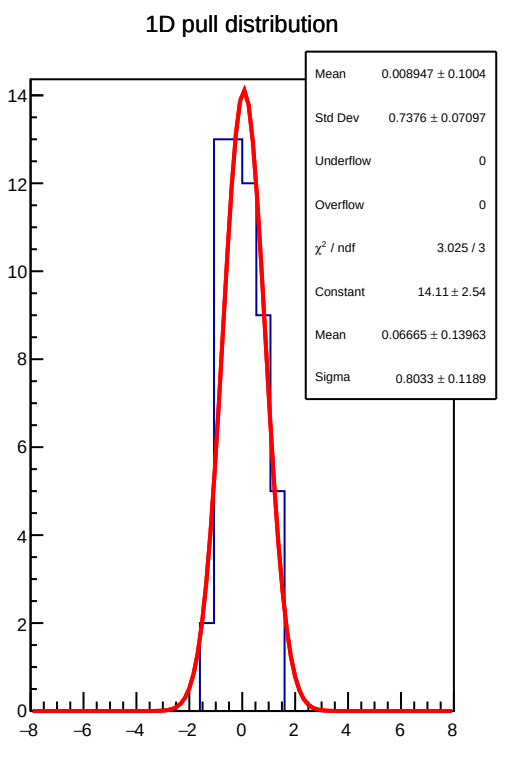

corr_Adet_evMon0 RMS (ppm)
RMS (ppm)
200
190
180
170
160
150
140
130
120
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

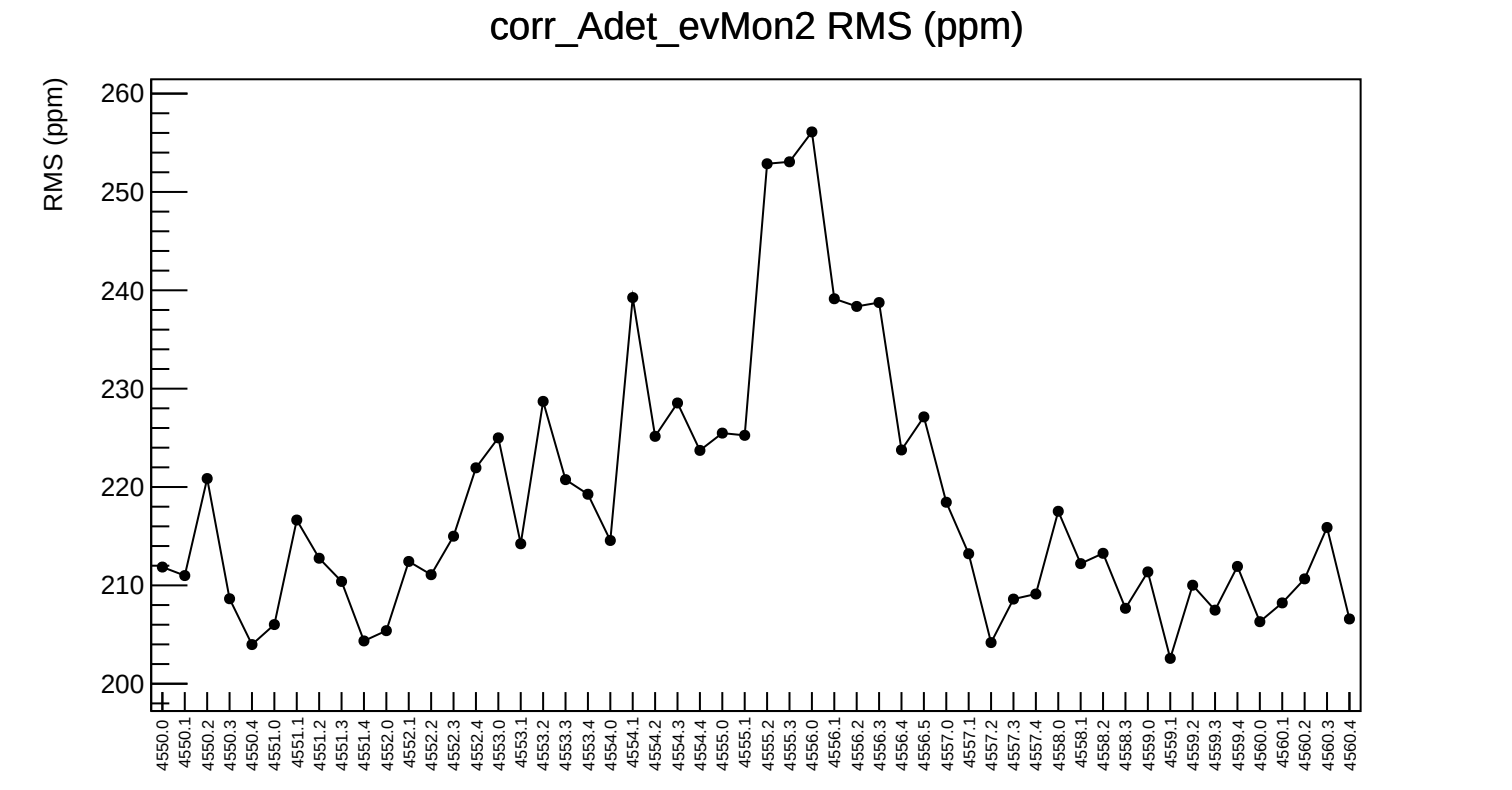

corr_Adet_evMon1 (ppb)
χ² / ndf 38.71 / 53
p0 9.819 ± 96.98
2000
1000
0
-1000
-2000
-3000
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

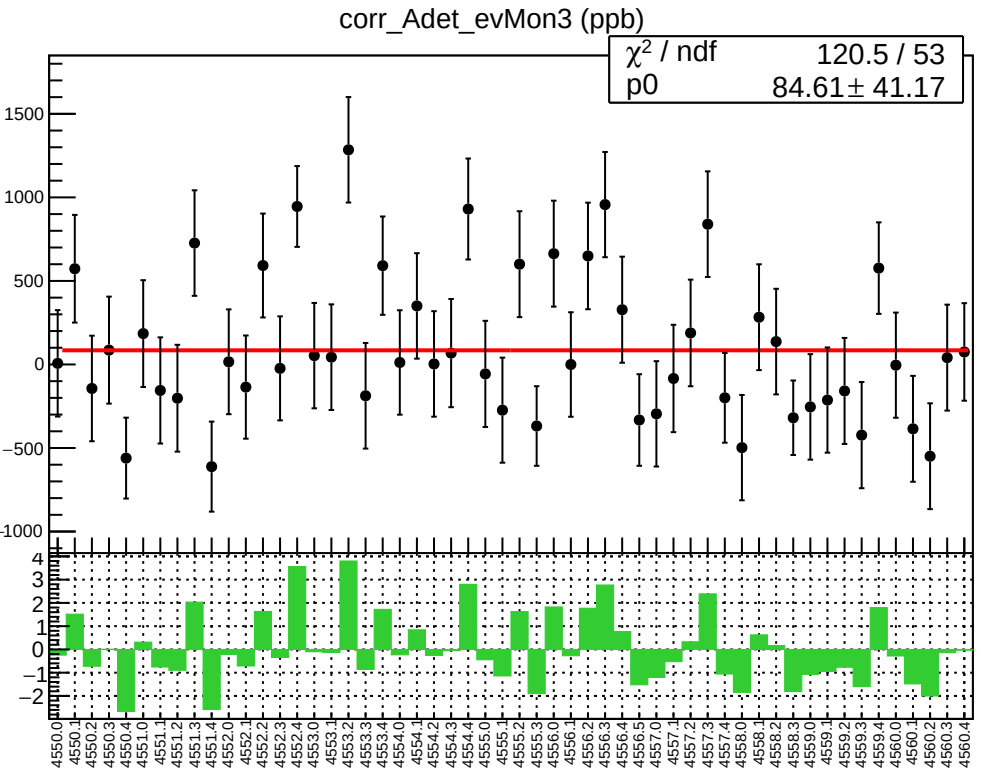

1D pull distribution
Mean −0.02071 ± 0.1152
Std Dev 0.8465 ± 0.08145
Underflow 0
Overflow 0
χ² / ndf 5.964 / 5
Constant 14.39 ± 2.64
Mean 0.1509 ± 0.1156
Sigma 0.7254 ± 0.0942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

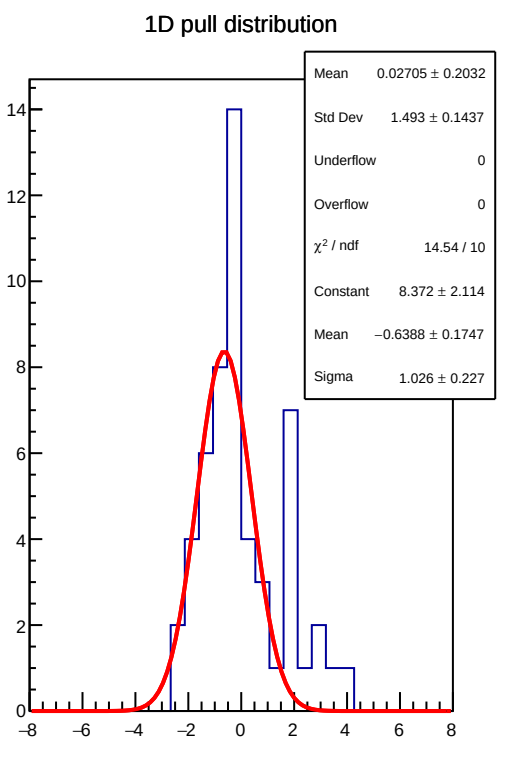

corr_Adet_evMon1 RMS (ppm)
RMS (ppm)
80
75
70
65
60
55
50
45
40
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

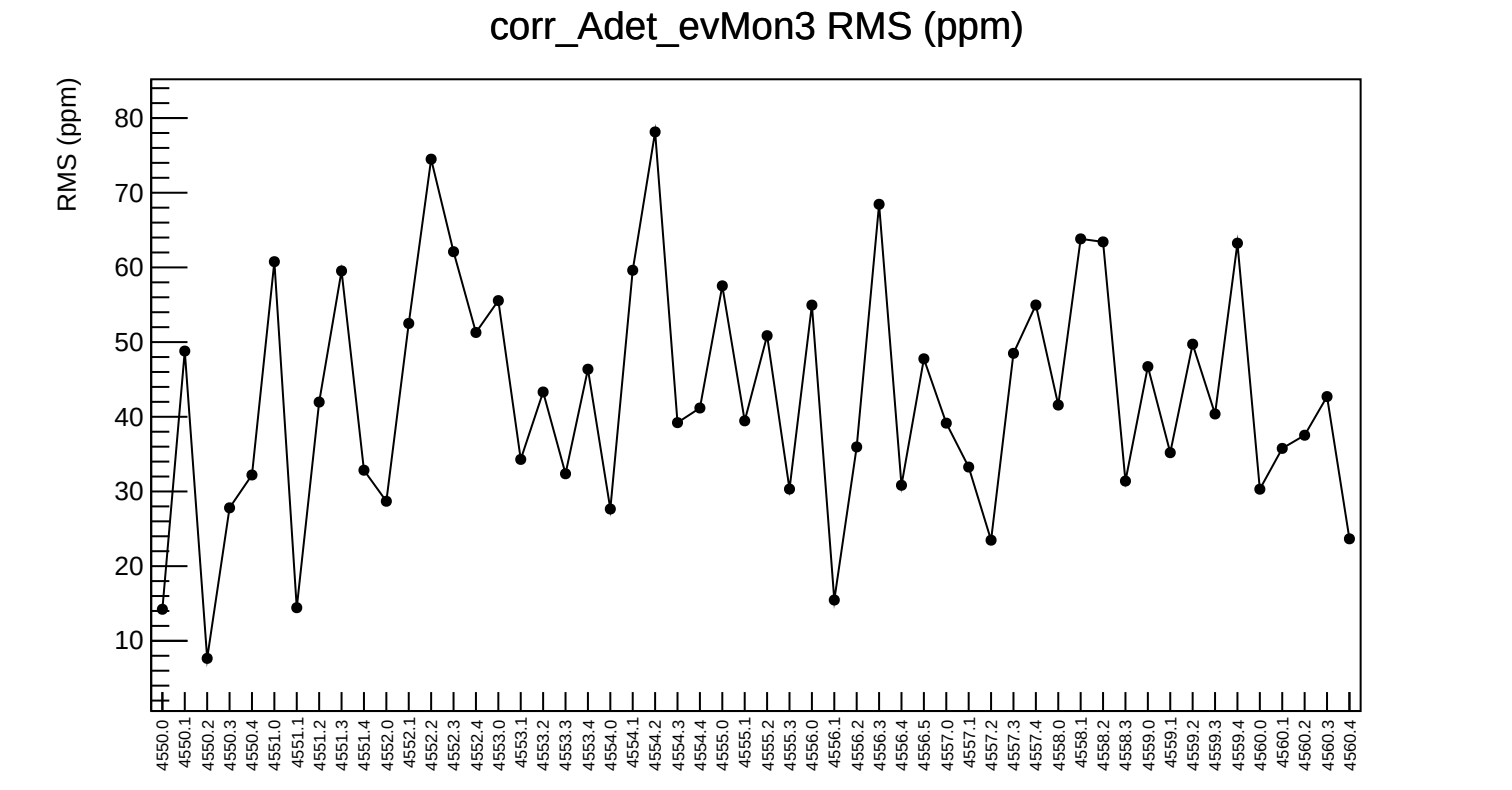

corr_Adet_evMon2 (ppb)
χ² / ndf 29.38 / 53
p0 398.1 ± 337.1

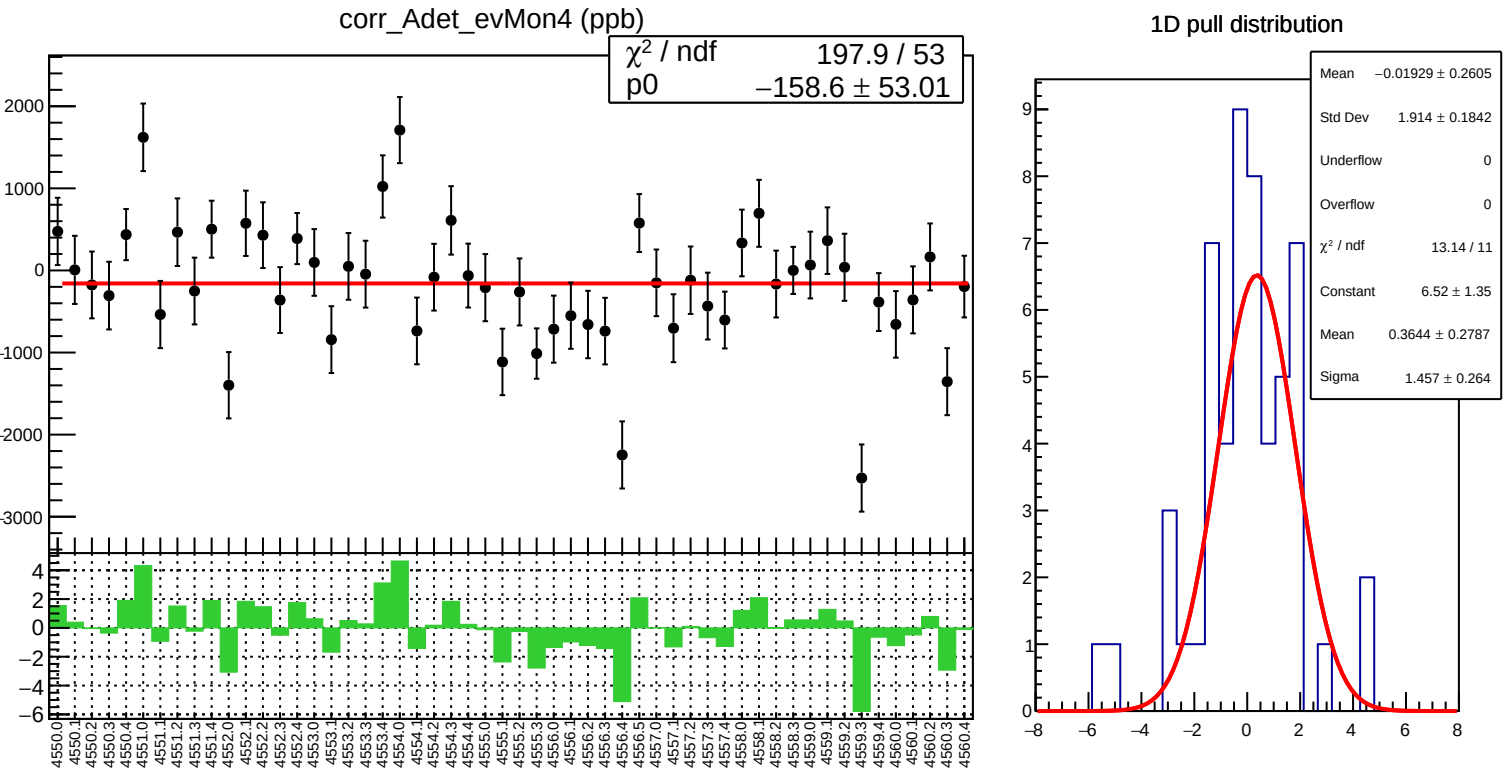

1D pull distribution
Mean 0.008947 ± 0.1004
Std Dev 0.7376 ± 0.07097
Underflow 0
Overflow 0
χ² / ndf 3.025 / 3
Constant 14.11 ± 2.54
Mean 0.06665 ± 0.13963
Sigma 0.8033 ± 0.1189

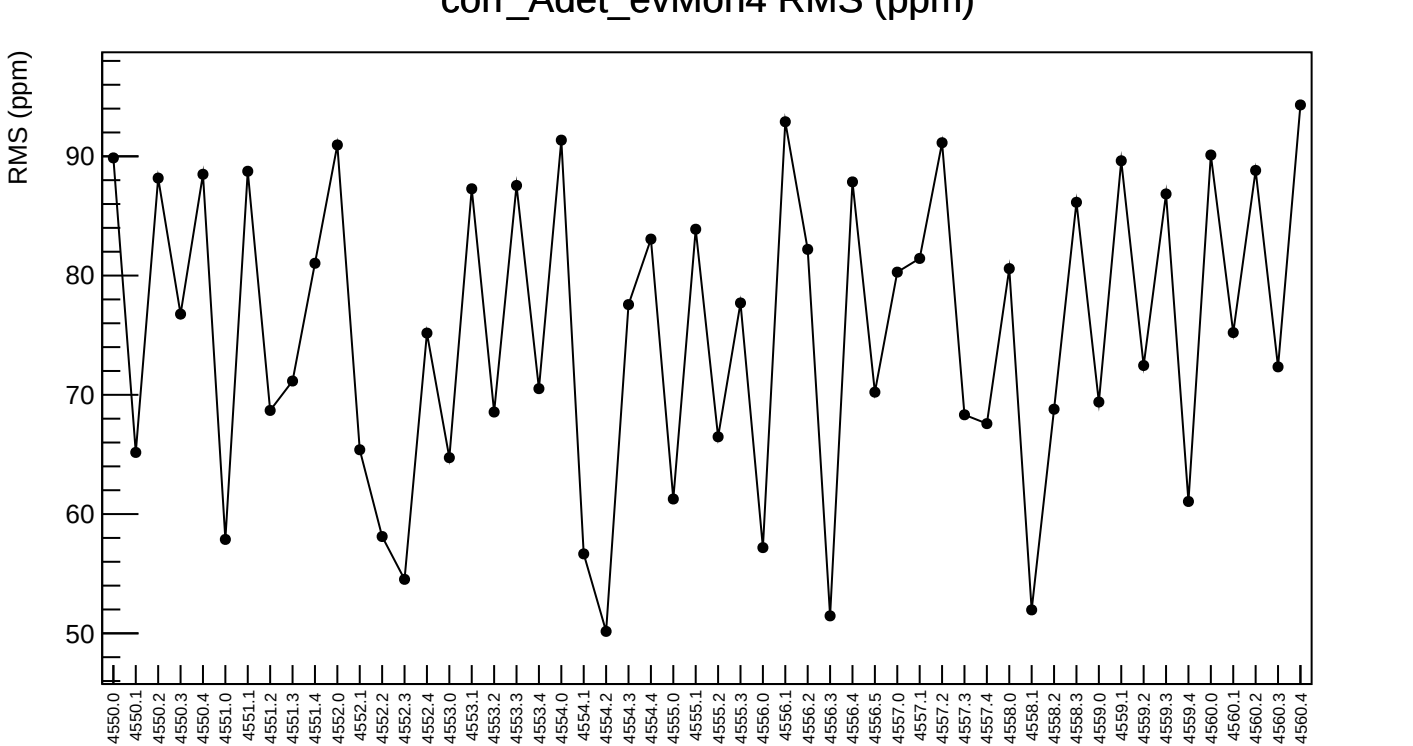

corr_Adet_evMon2 RMS (ppm)
RMS (ppm)
260
250
240
230
220
210
200
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

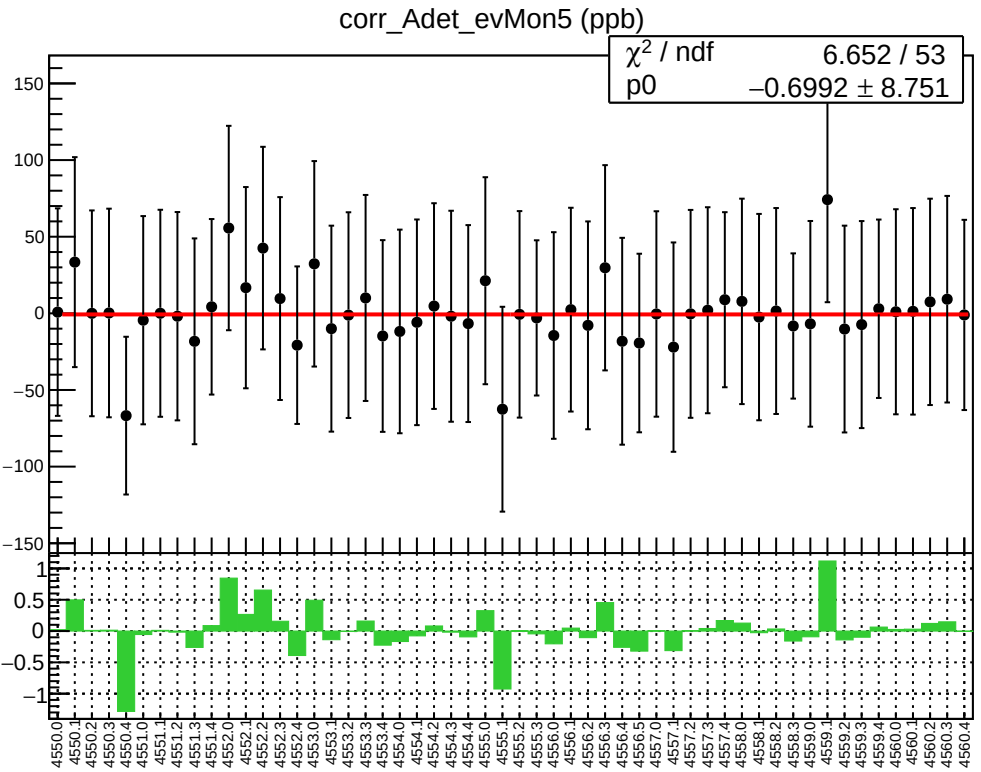

corr_Adet_evMon3 (ppb)
χ² / ndf 120.5 / 53
p0 84.61 ± 41.17
1500
1000
500
0
−500
−1000
4
3
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

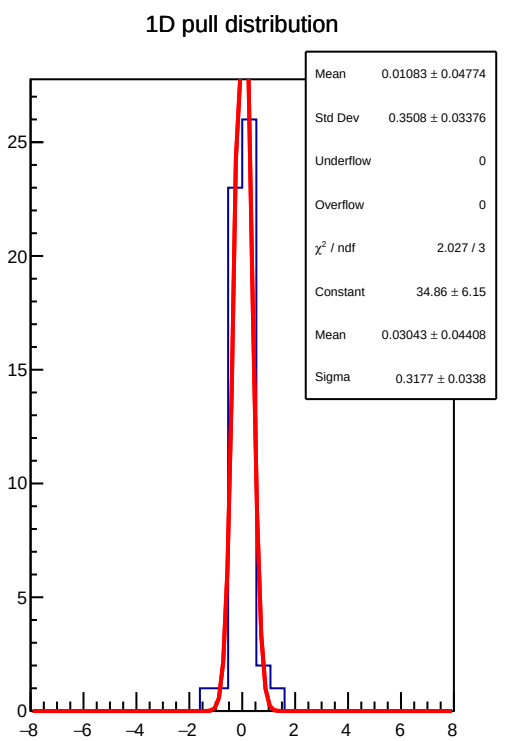

1D pull distribution
Mean 0.02705 ± 0.2032
Std Dev 1.493 ± 0.1437
Underflow 0
Overflow 0
χ² / ndf 14.54 / 10
Constant 8.372 ± 2.114
Mean −0.6388 ± 0.1747
Sigma 1.026 ± 0.227
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

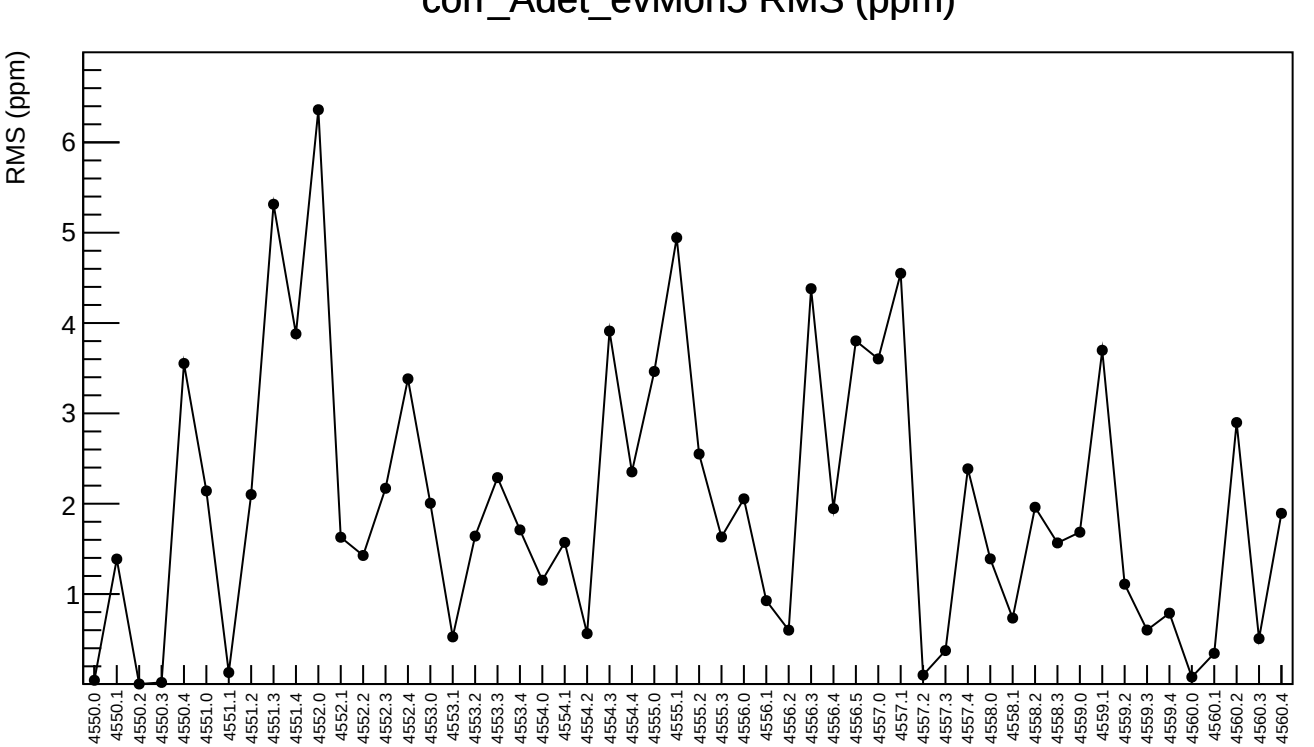

corr_Adet_evMon3 RMS (ppm)
RMS (ppm)
80
70
60
50
40
30
20
10
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

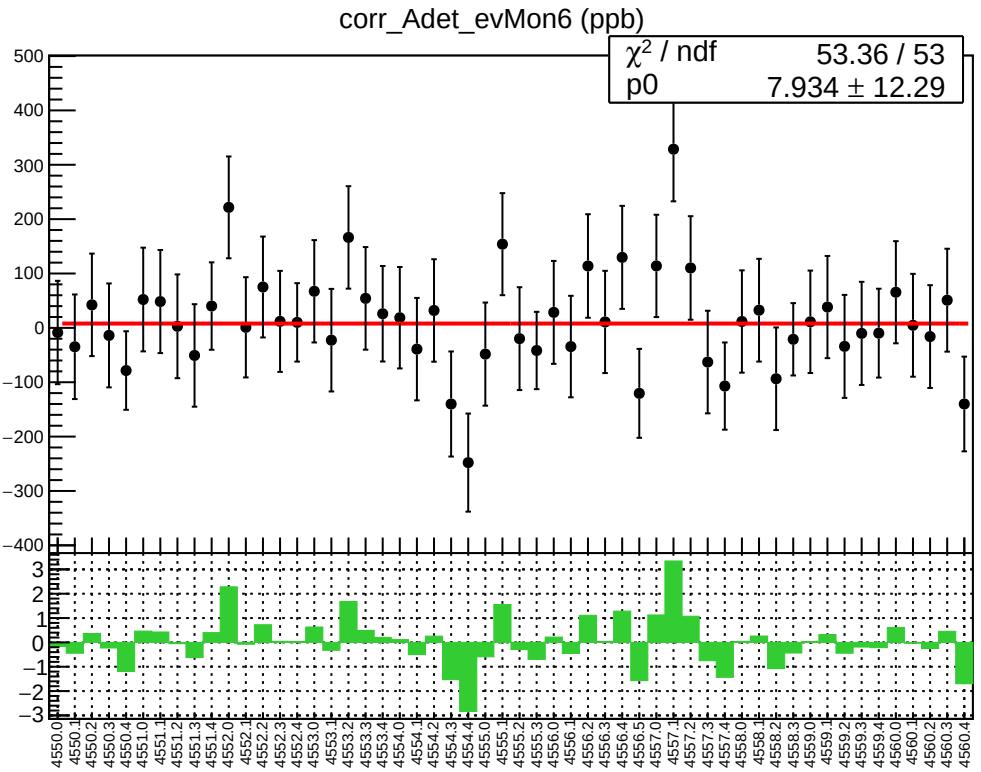

corr_Adet_evMon4 (ppb)
χ² / ndf 197.9 / 53
p0 −158.6 ± 53.01
2000
1000
0
-1000
-2000
-3000
4
2
0
−2
−4
−6
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4
1D pull distribution
Mean −0.01929 ± 0.2605
Std Dev 1.914 ± 0.1842
Underflow 0
Overflow 0
χ² / ndf 13.14 / 11
Constant 6.52 ± 1.35
Mean 0.3644 ± 0.2787
Sigma 1.457 ± 0.264
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

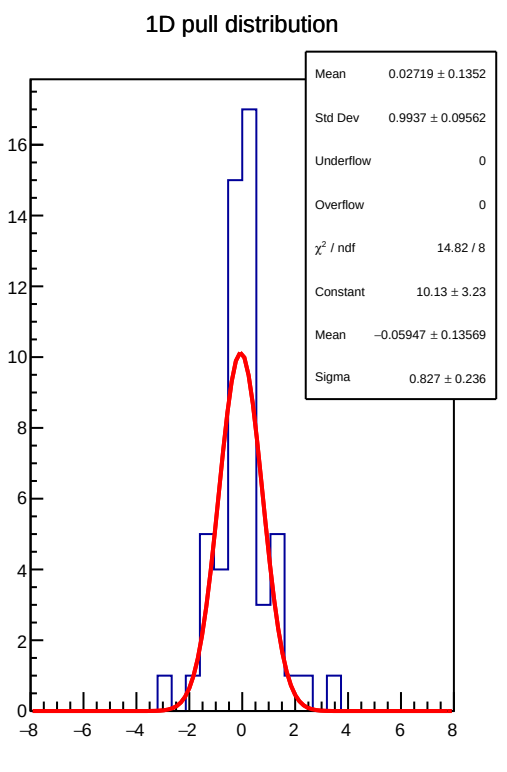

corr_Adet_evMon4 RMS (ppm)
RMS (ppm)
90
80
70
60
50
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

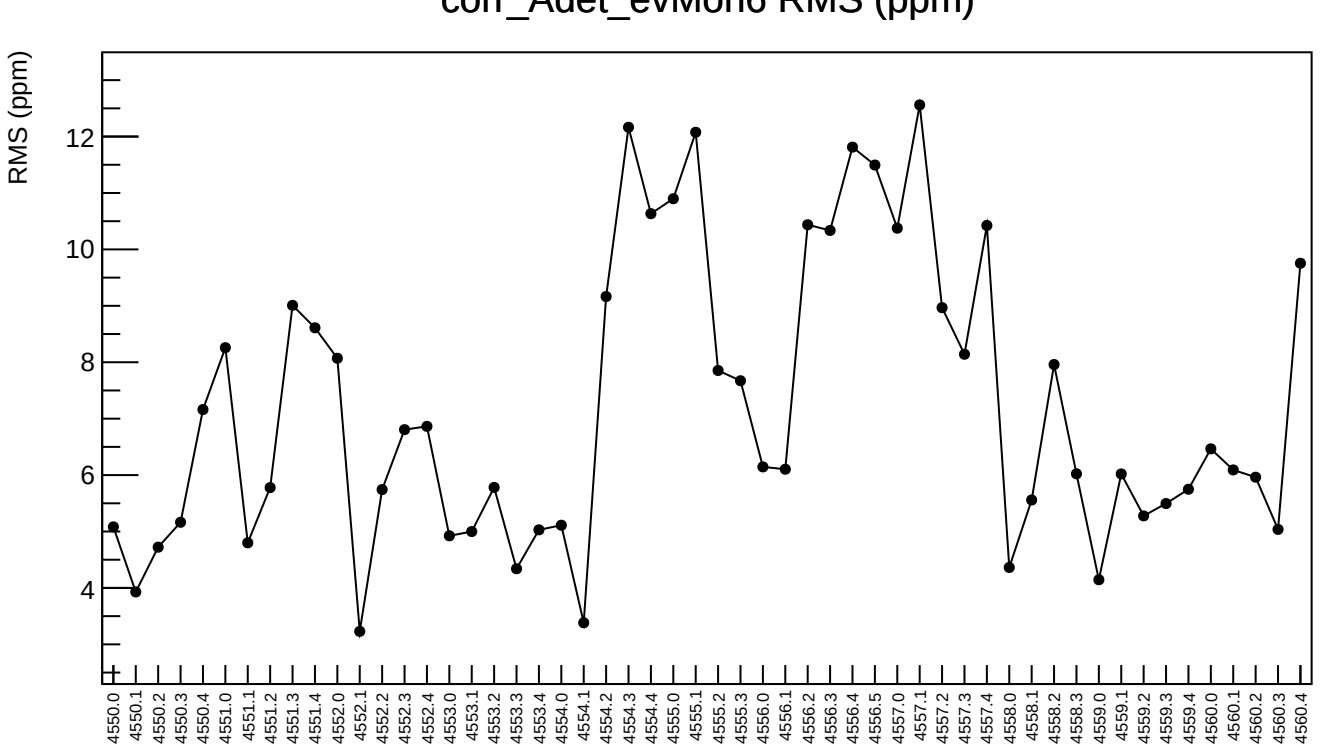

corr_Adet_evMon5 (ppb)
χ² / ndf 6.652 / 53
p0 −0.6992 ± 8.751

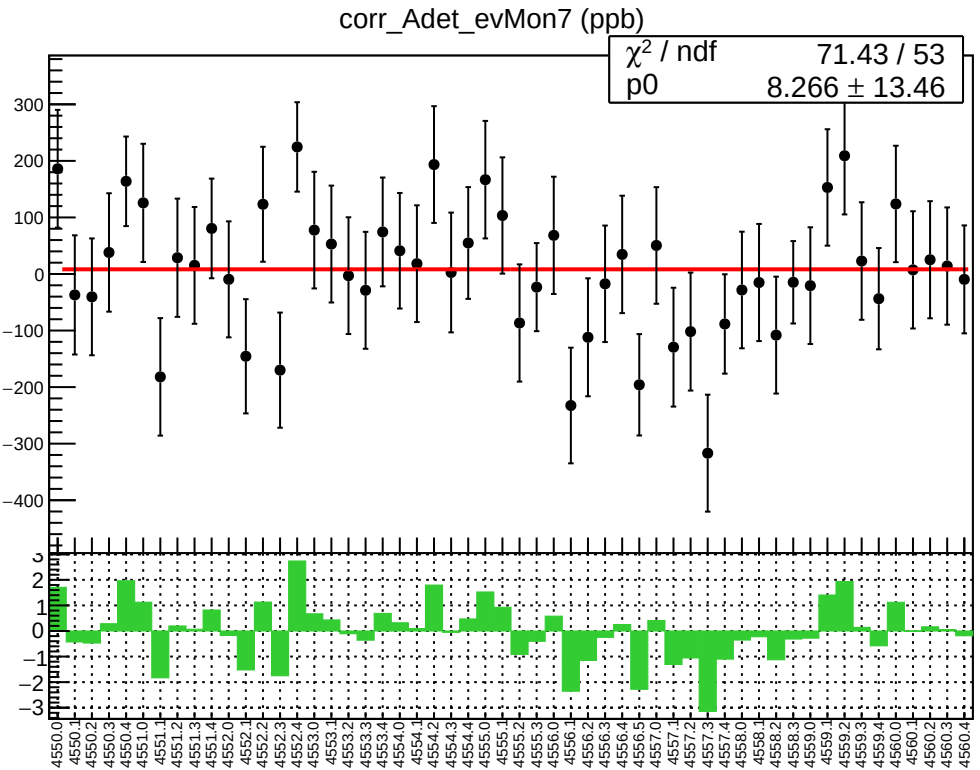

1D pull distribution
Mean 0.01083 ± 0.04774
Std Dev 0.3508 ± 0.03376
Underflow 0
Overflow 0
χ² / ndf 2.027 / 3
Constant 34.86 ± 6.15
Mean 0.03043 ± 0.04408
Sigma 0.3177 ± 0.0338

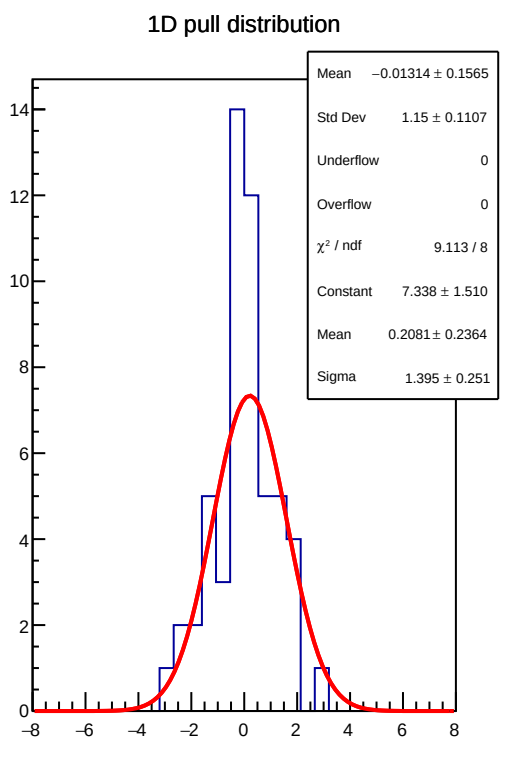

corr_Adet_evMon5 RMS (ppm)
RMS (ppm)
1
2
3
4
5
6
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

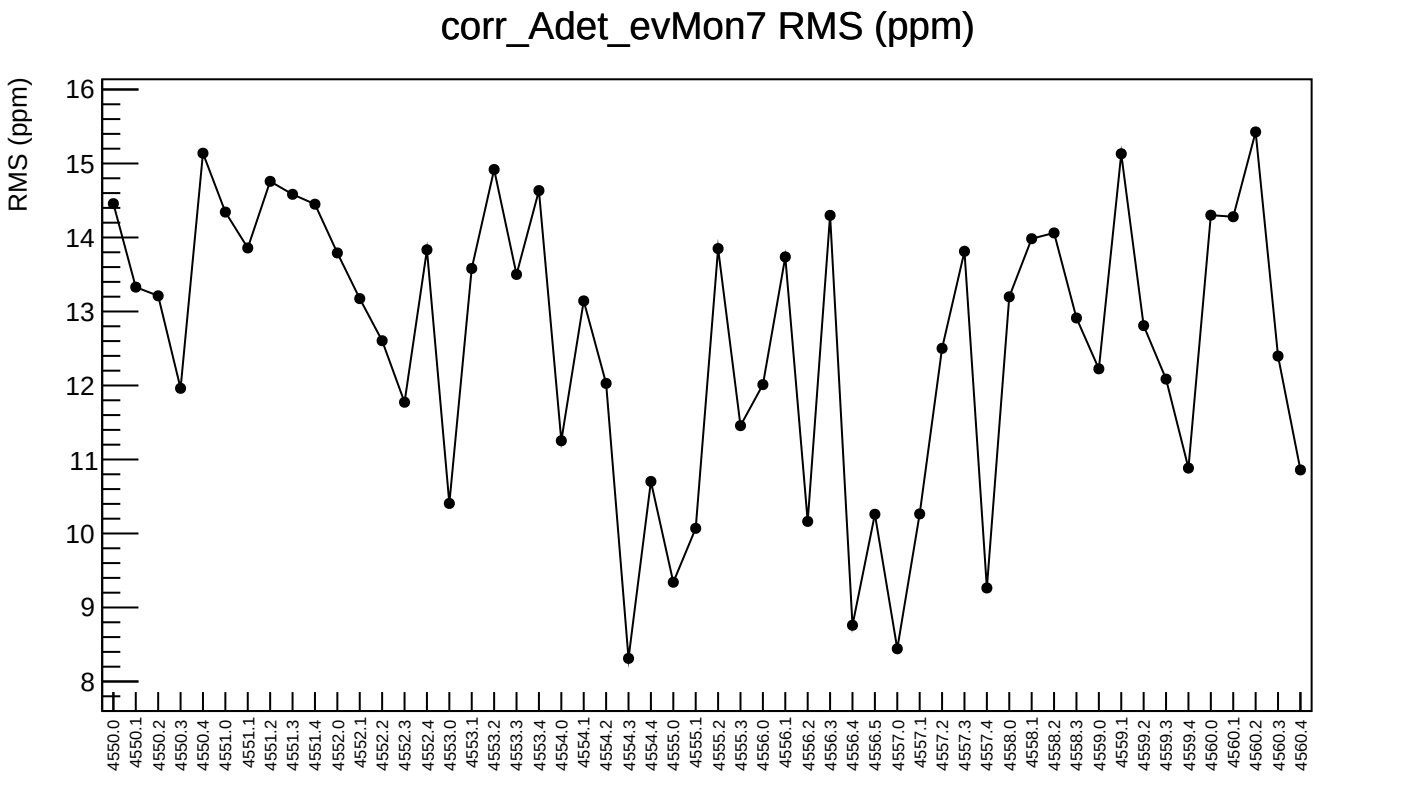

corr_Adet_evMon6 (ppb)
χ² / ndf 53.36 / 53
p0 7.934 ± 12.29

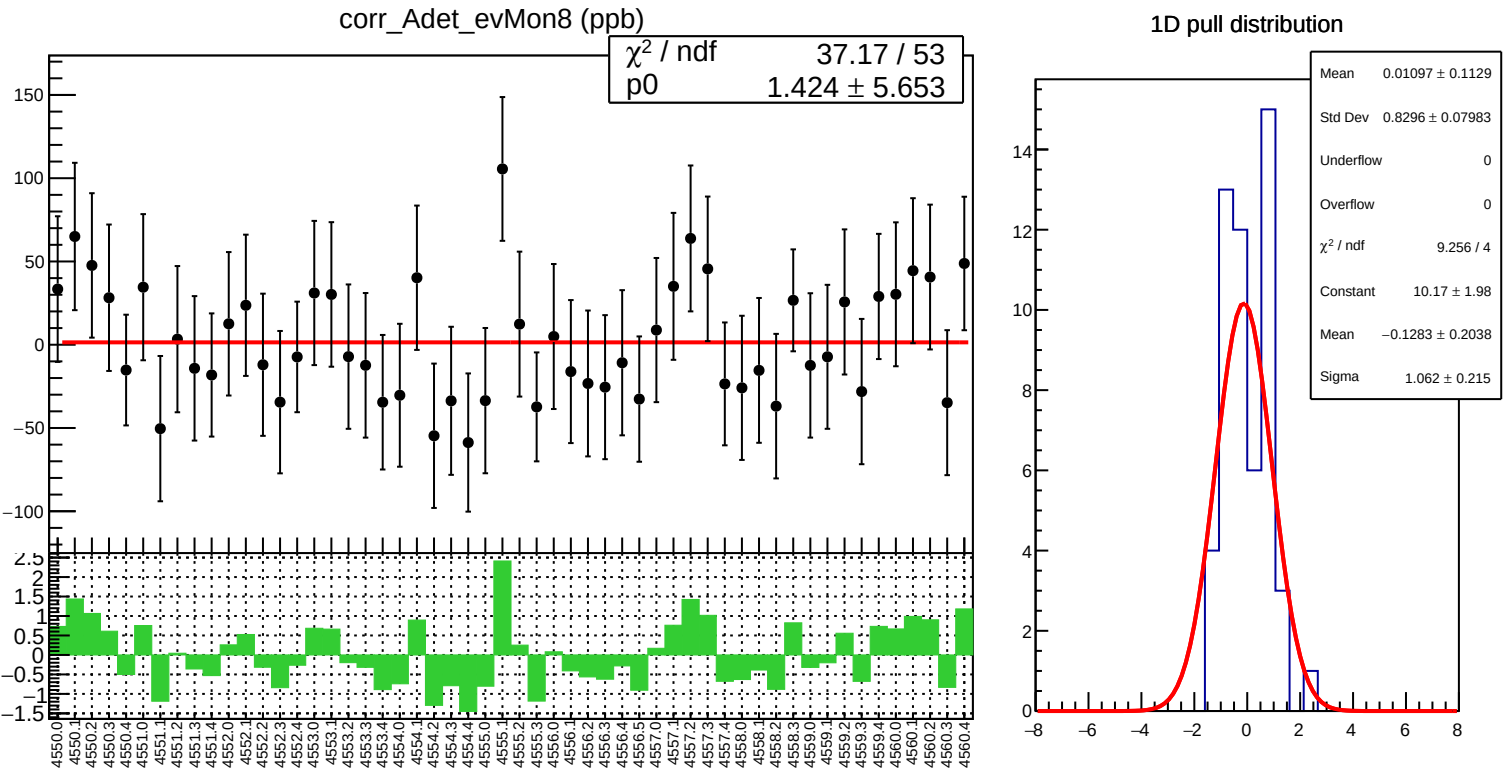

1D pull distribution
Mean 0.02719 ± 0.1352
Std Dev 0.9937 ± 0.09562
Underflow 0
Overflow 0
χ² / ndf 14.82 / 8
Constant 10.13 ± 3.23
Mean −0.05947 ± 0.13569
Sigma 0.827 ± 0.236

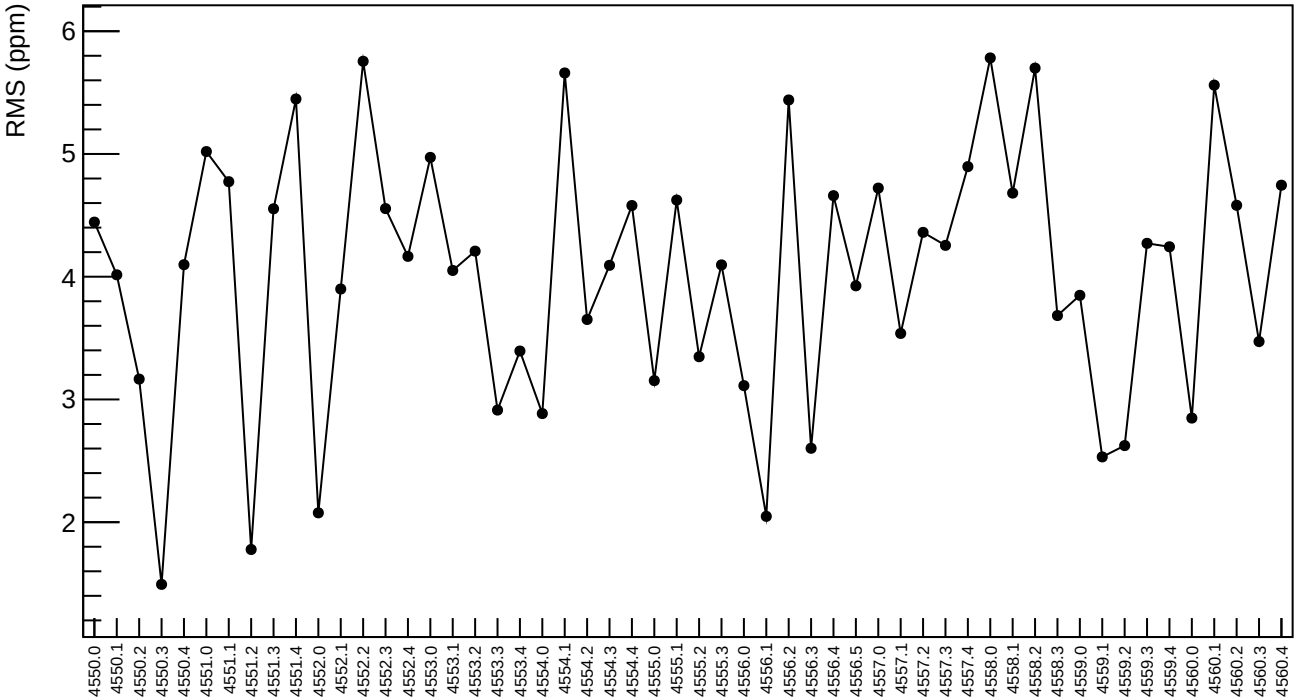

corr_Adet_evMon6 RMS (ppm)
RMS (ppm)
12
10
8
6
4
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

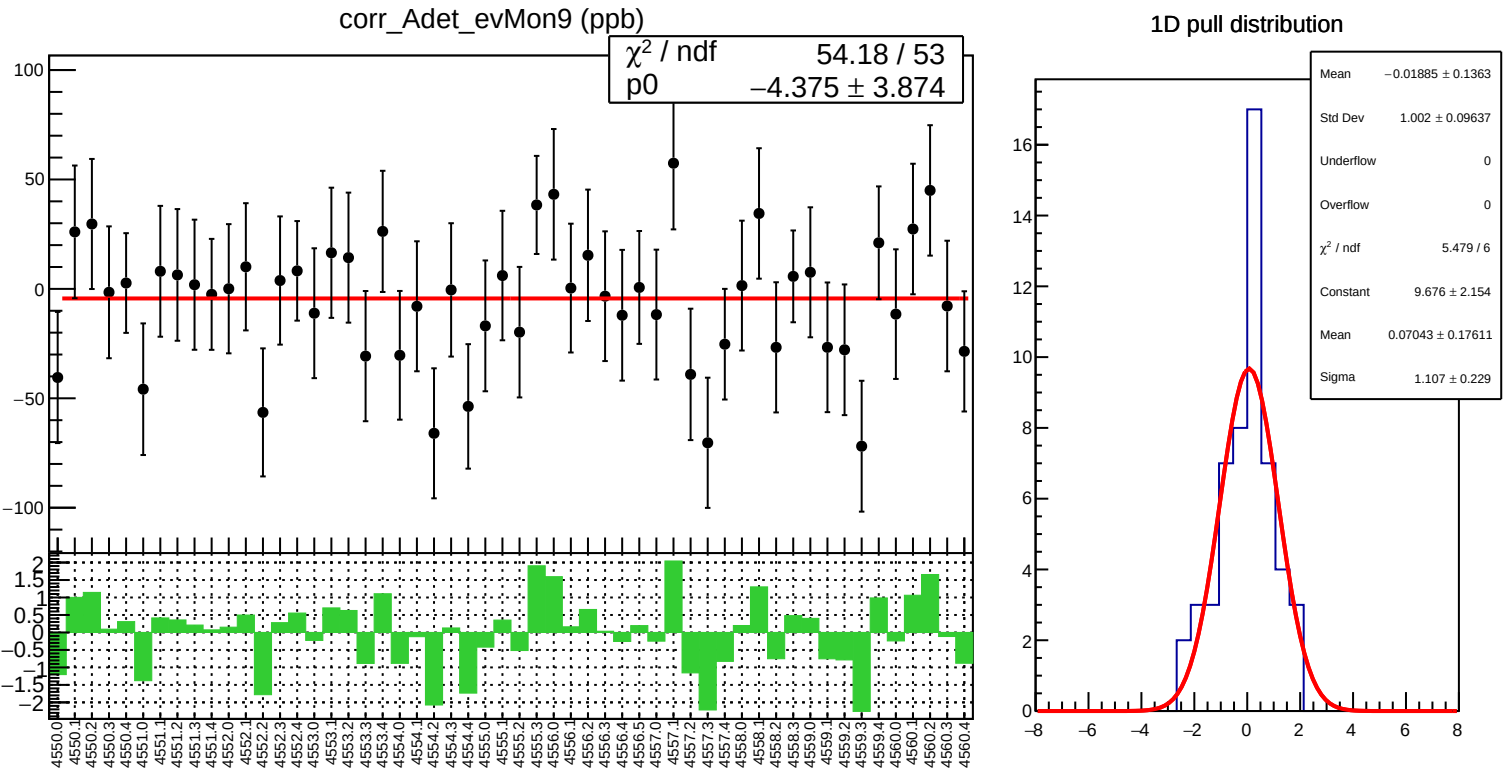

corr_Adet_evMon7 (ppb)
χ² / ndf 71.43 / 53
p0 8.266 ± 13.46

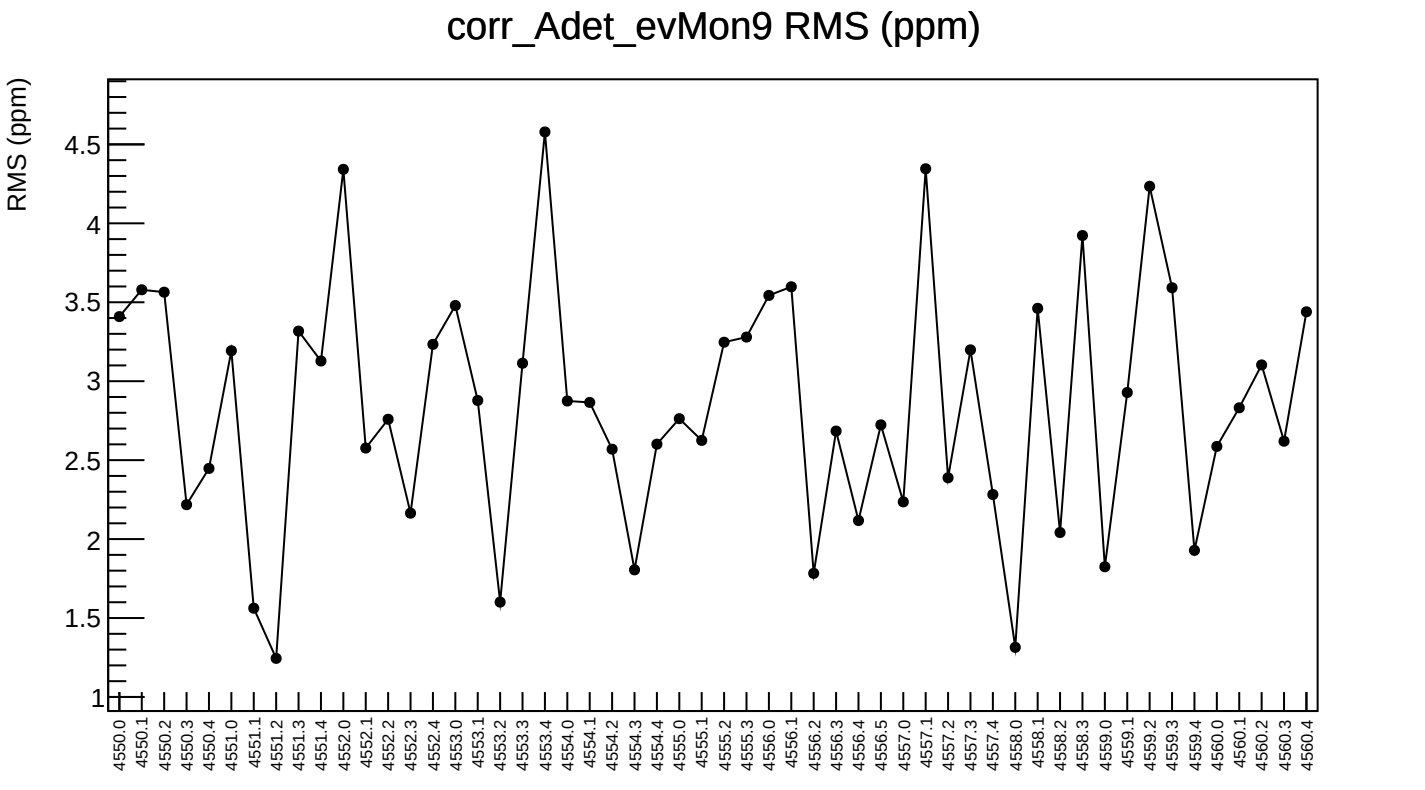

1D pull distribution
Mean −0.01314 ± 0.1565
Std Dev 1.15 ± 0.1107
Underflow 0
Overflow 0
χ² / ndf 9.113 / 8
Constant 7.338 ± 1.510
Mean 0.2081 ± 0.2364
Sigma 1.395 ± 0.251

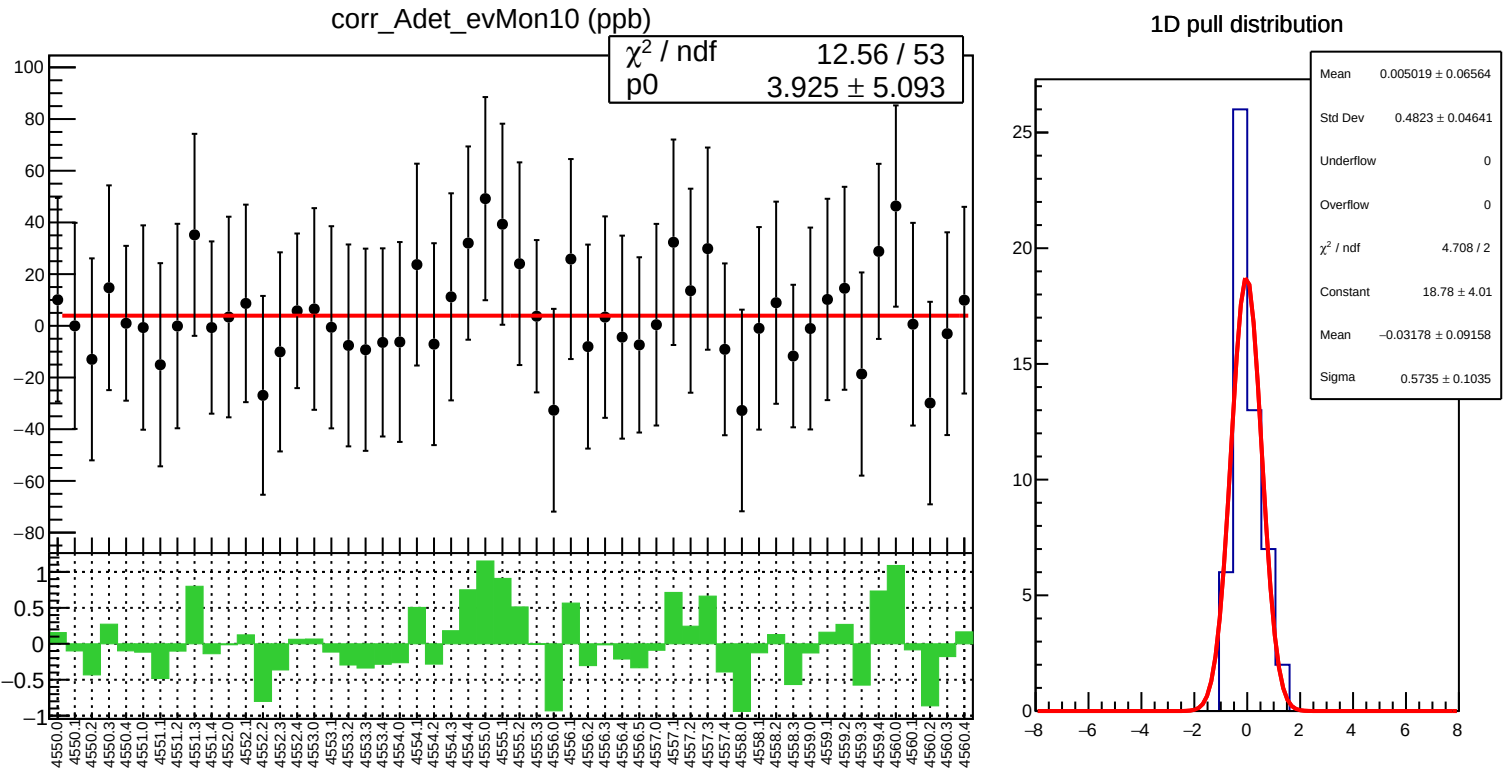

corr_Adet_evMon7 RMS (ppm)
RMS (ppm)
16
15
14
13
12
11
10
9
8
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

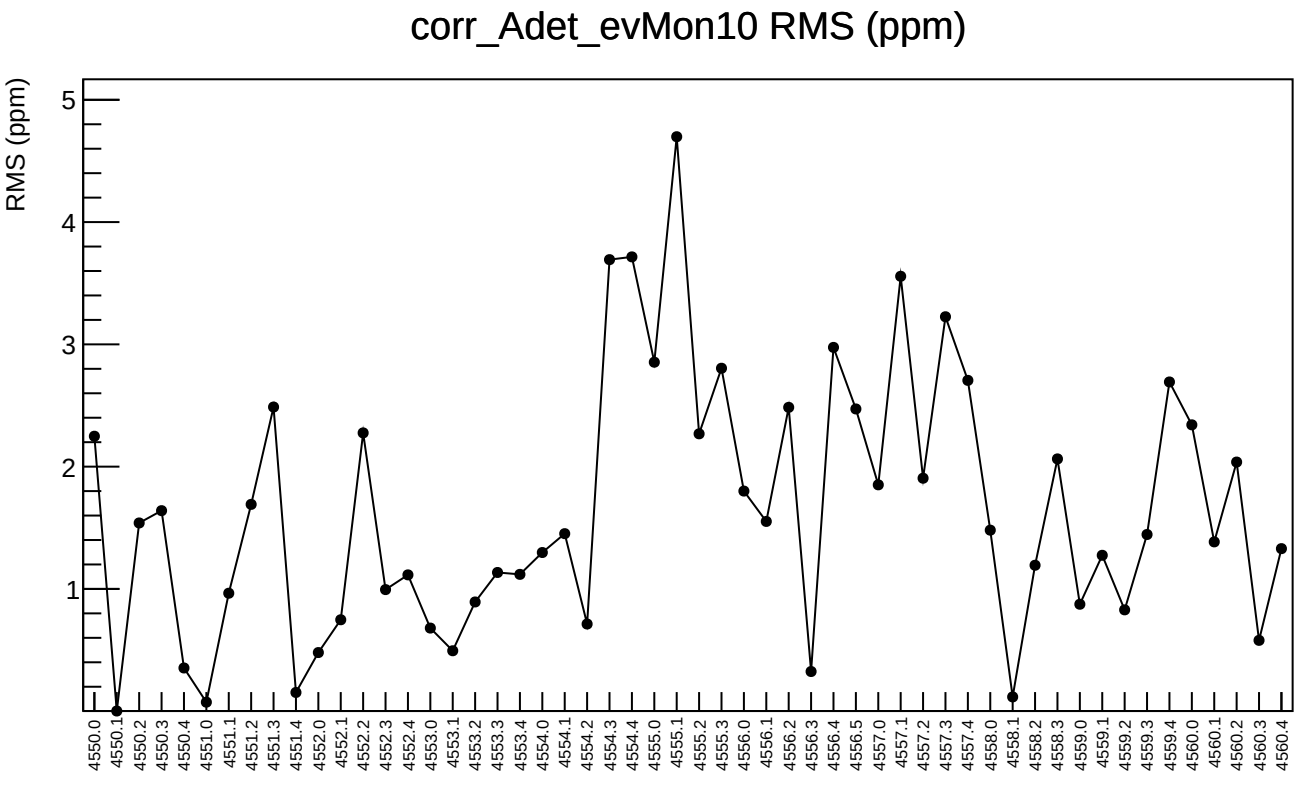

corr_Adet_evMon8 (ppb)
χ² / ndf 37.17 / 53
p0 1.424 ± 5.653
1D pull distribution
Mean 0.01097 ± 0.1129
Std Dev 0.8296 ± 0.07983
Underflow 0
Overflow 0
χ² / ndf 9.256 / 4
Constant 10.17 ± 1.98
Mean −0.1283 ± 0.2038
Sigma 1.062 ± 0.215

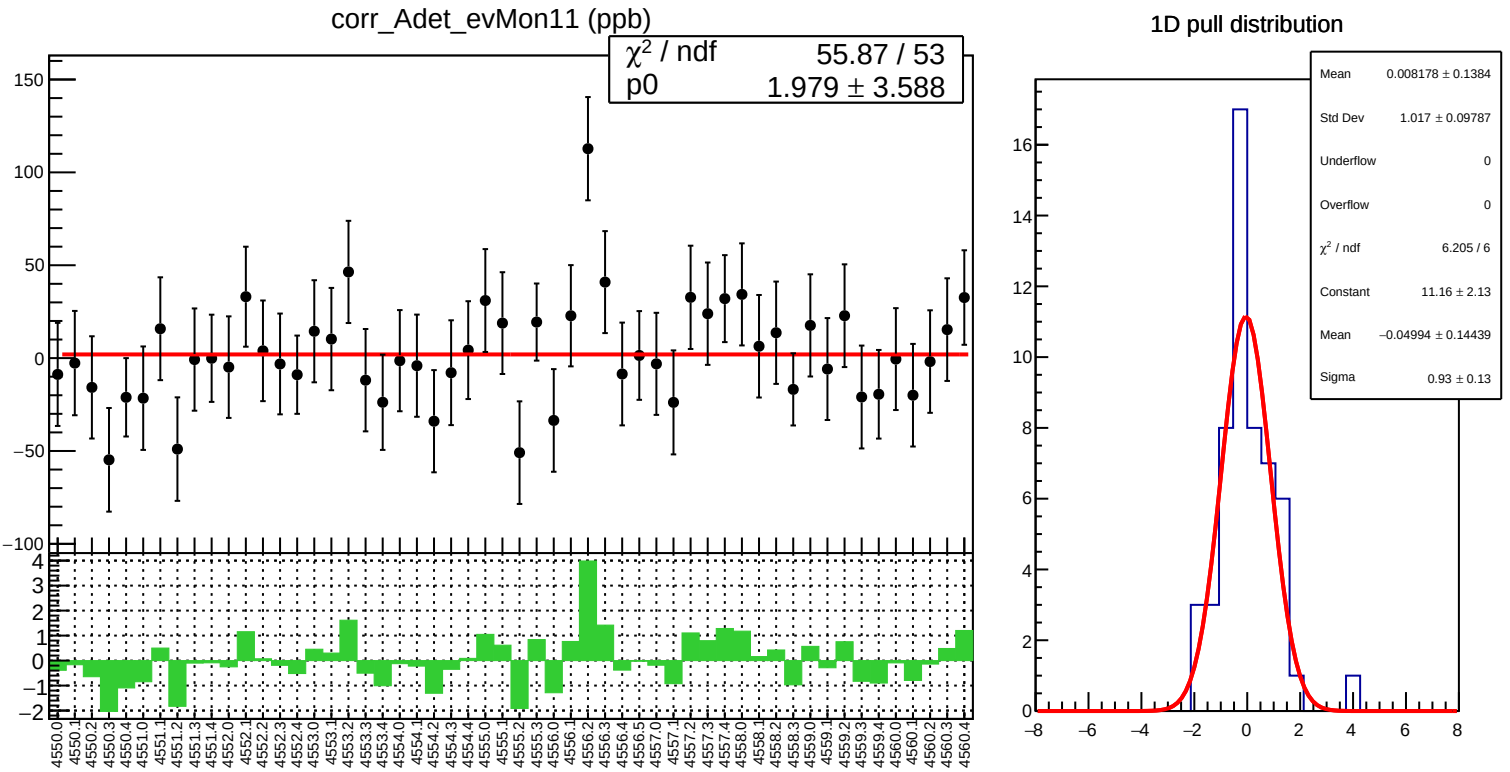

corr_Adet_evMon8 RMS (ppm)
RMS (ppm)
6
5
4
3
2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

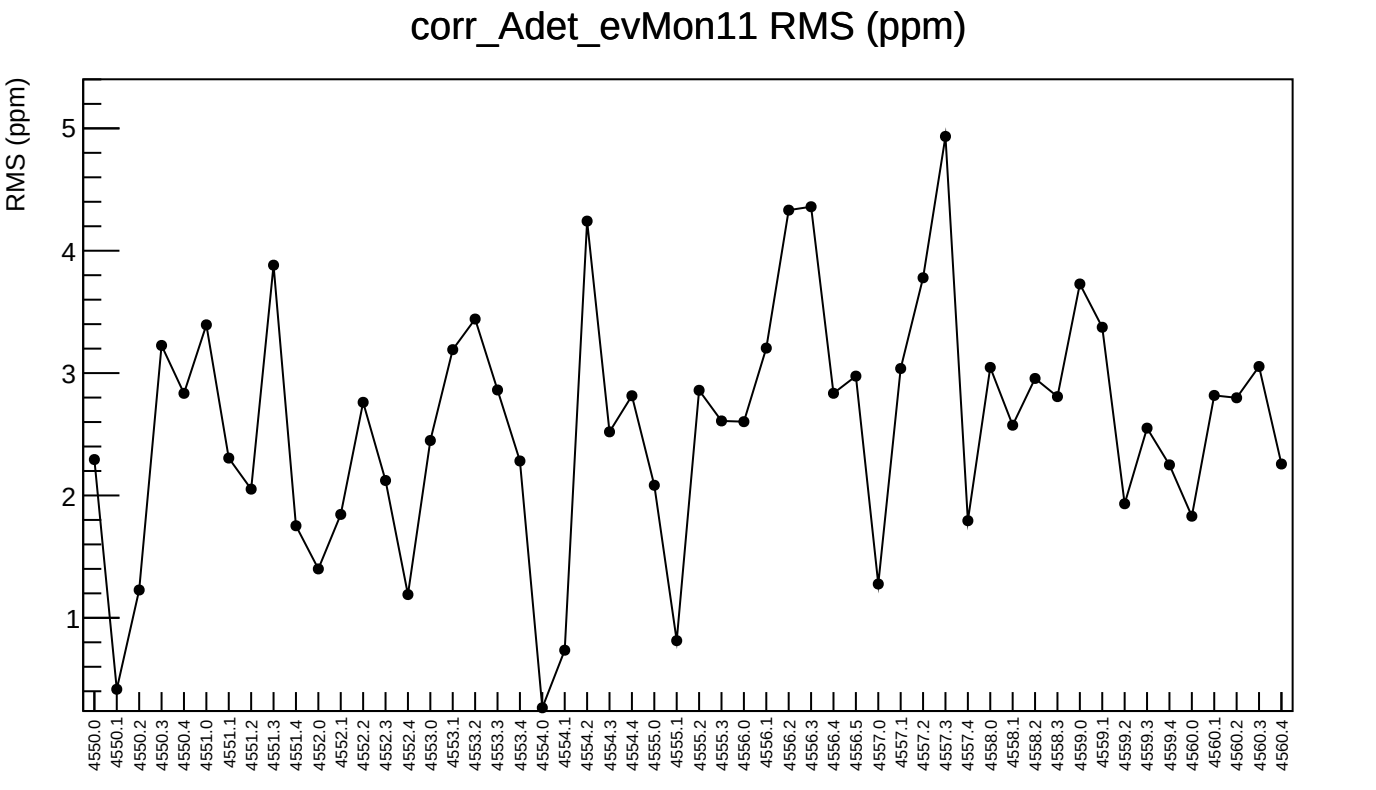

corr_Adet_evMon9 (ppb)
χ² / ndf 54.18 / 53
p0 −4.375 ± 3.874
1D pull distribution
Mean −0.01885 ± 0.1363
Std Dev 1.002 ± 0.09637
Underflow 0
Overflow 0
χ² / ndf 5.479 / 6
Constant 9.676 ± 2.154
Mean 0.07043 ± 0.17611
Sigma 1.107 ± 0.229

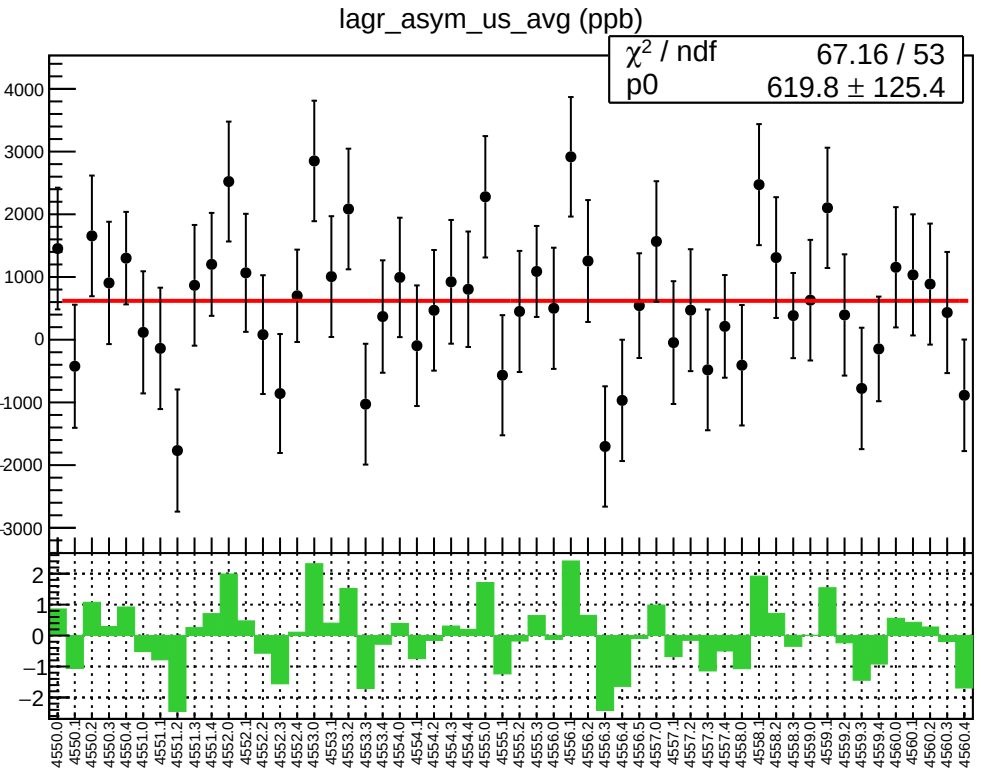

corr_Adet_evMon9 RMS (ppm)
RMS (ppm)
4.5
4
3.5
3
2.5
2
1.5
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

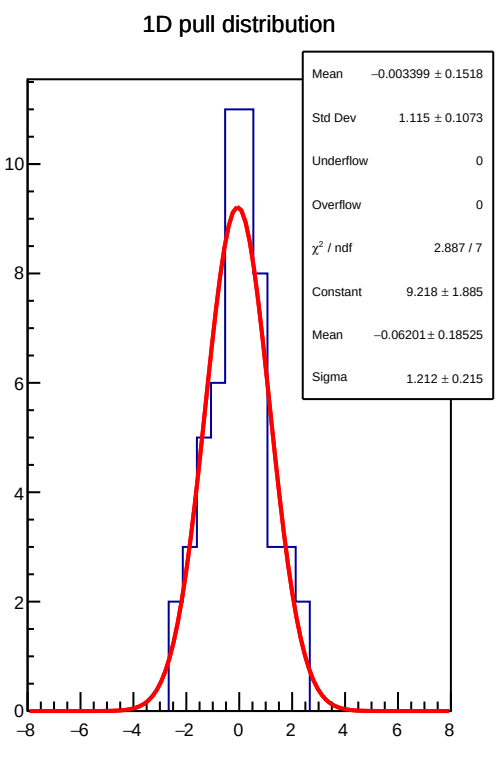

corr_Adet_evMon10 (ppb)
χ² / ndf 12.56 / 53
p0 3.925 ± 5.093
1D pull distribution
Mean 0.005019 ± 0.06564
Std Dev 0.4823 ± 0.04641
Underflow 0
Overflow 0
χ² / ndf 4.708 / 2
Constant 18.78 ± 4.01
Mean −0.03178 ± 0.09158
Sigma 0.5735 ± 0.1035

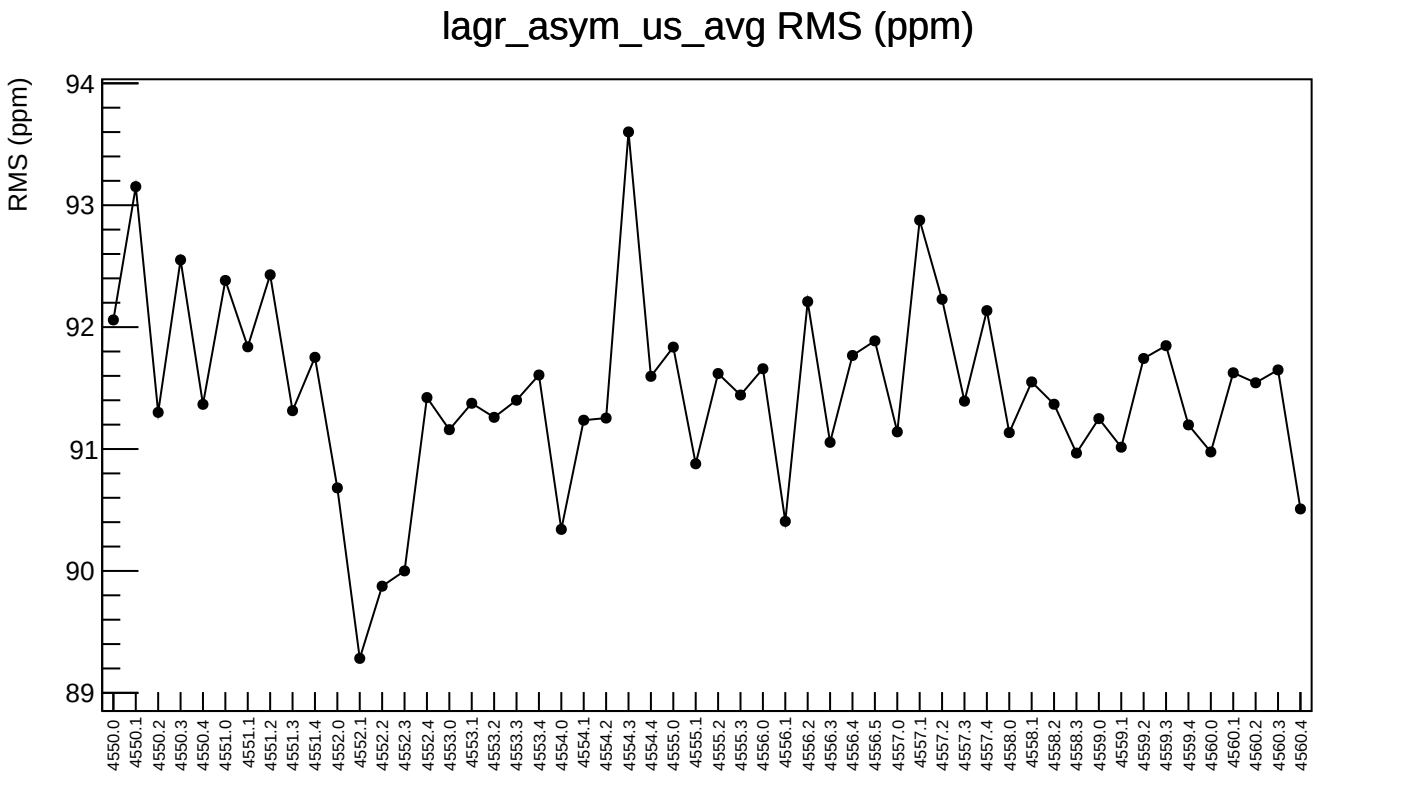

corr_Adet_evMon10 RMS (ppm)
RMS (ppm)
5
4
3
2
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

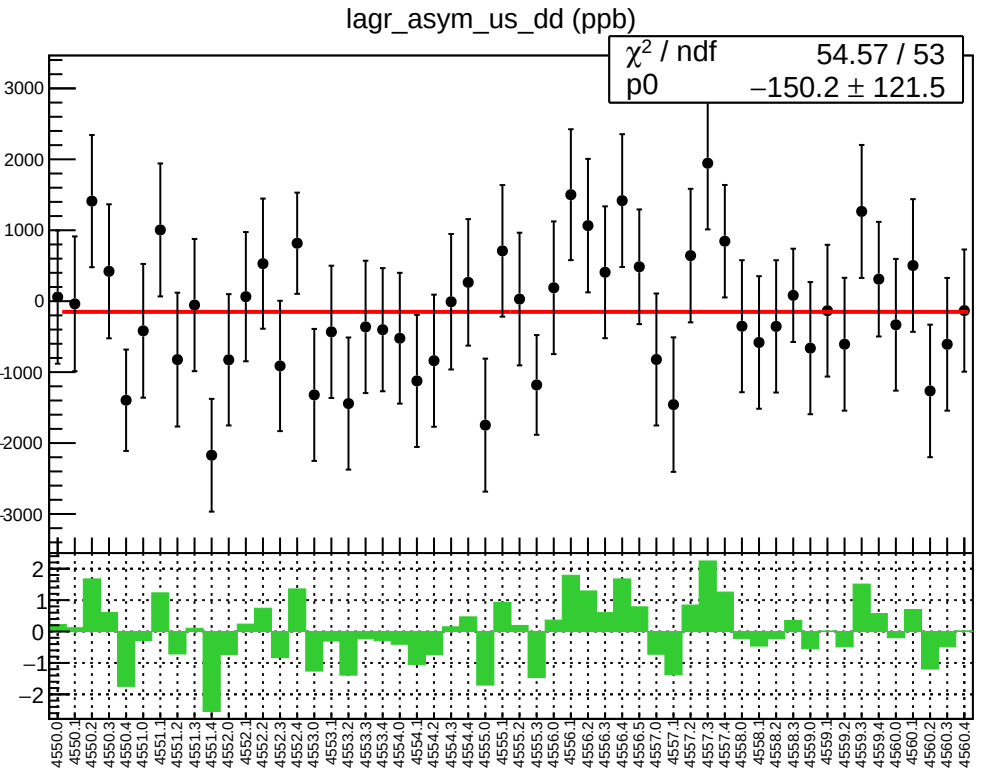

corr_Adet_evMon11 (ppb)
χ² / ndf 55.87 / 53
p0 1.979 ± 3.588
1D pull distribution
Mean 0.008178 ± 0.1384
Std Dev 1.017 ± 0.09787
Underflow 0
Overflow 0
χ² / ndf 6.205 / 6
Constant 11.16 ± 2.13
Mean −0.04994 ± 0.14439
Sigma 0.93 ± 0.13

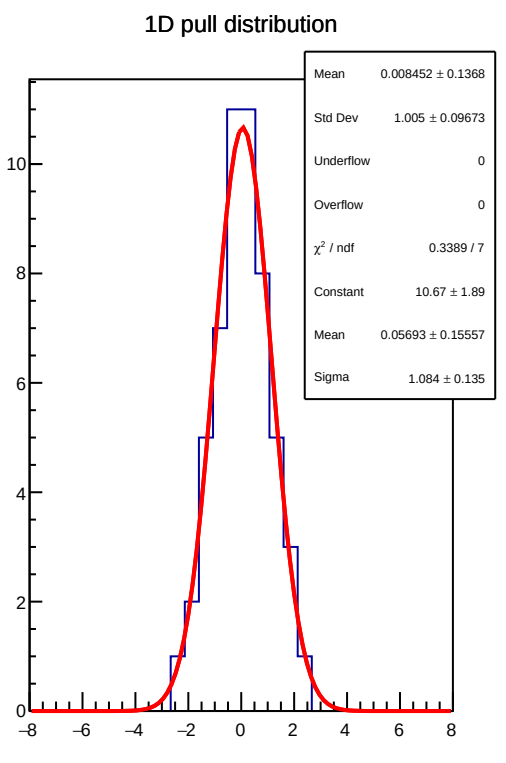

corr_Adet_evMon11 RMS (ppm)
RMS (ppm)
1
2
3
4
5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

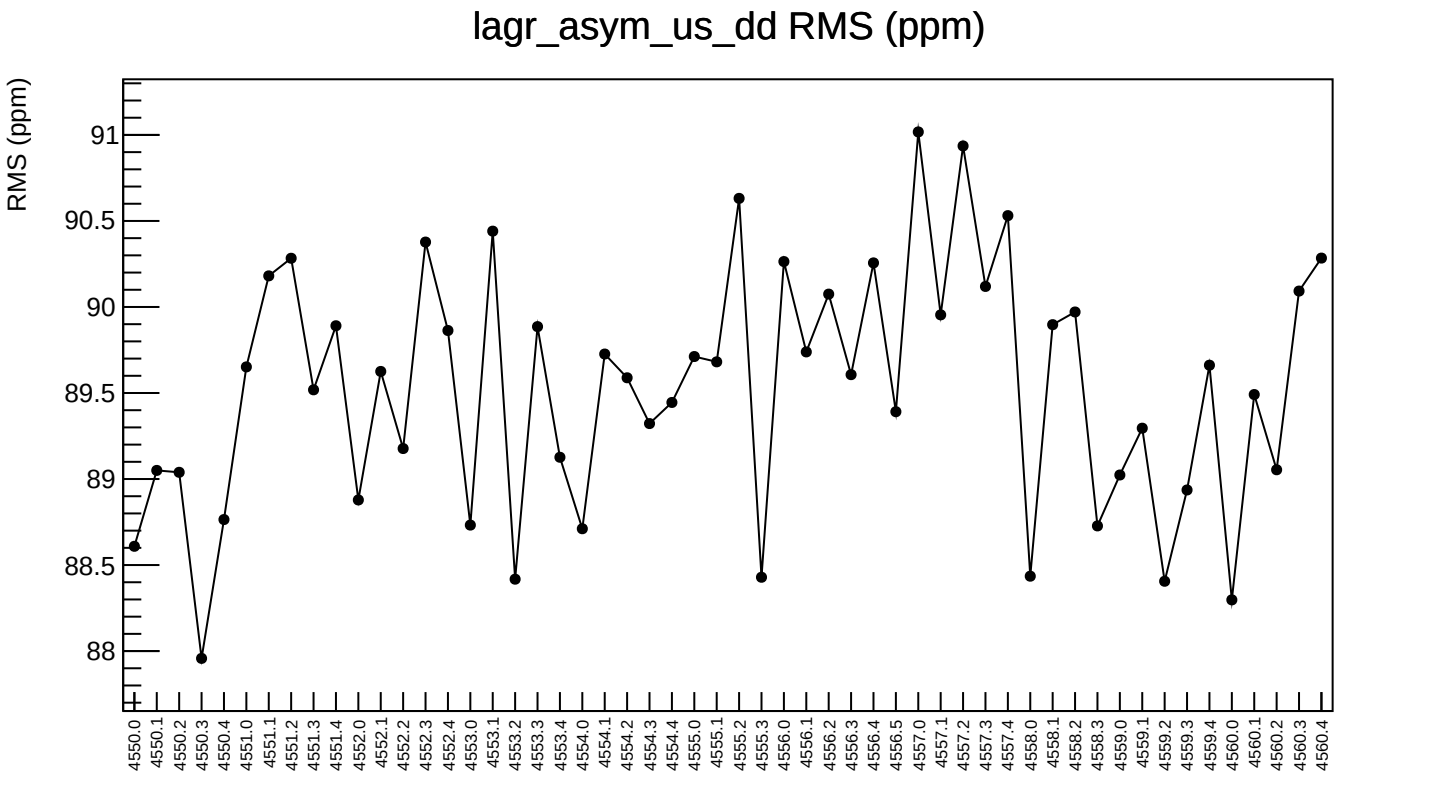

lagr_asym_us_avg (ppb)
χ² / ndf 67.16 / 53
p0 619.8 ± 125.4
4000
3000
2000
1000
0
-1000
-2000
-3000
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

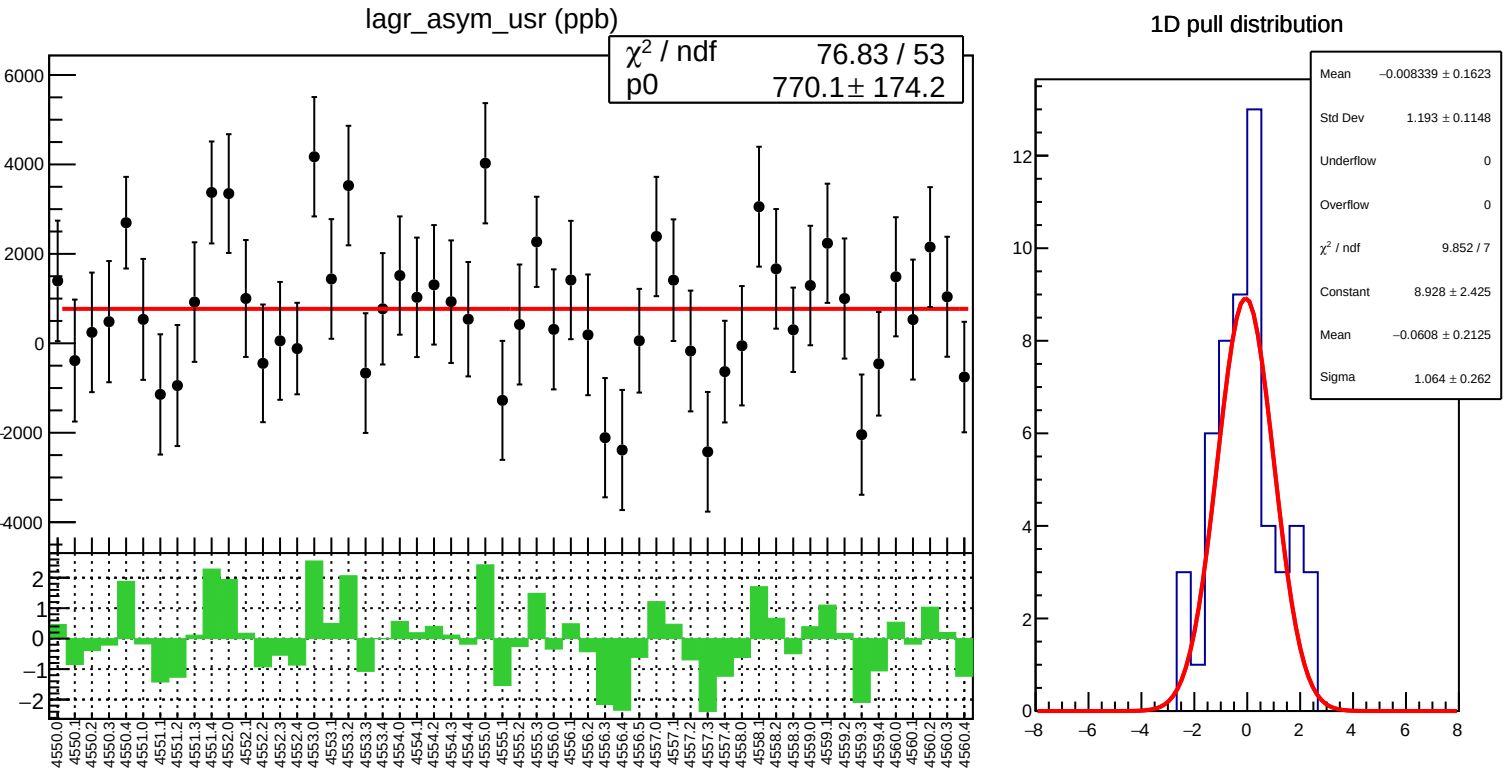

1D pull distribution
Mean −0.003399 ± 0.1518
Std Dev 1.115 ± 0.1073
Underflow 0
Overflow 0
χ² / ndf 2.887 / 7
Constant 9.218 ± 1.885
Mean −0.06201 ± 0.18525
Sigma 1.212 ± 0.215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

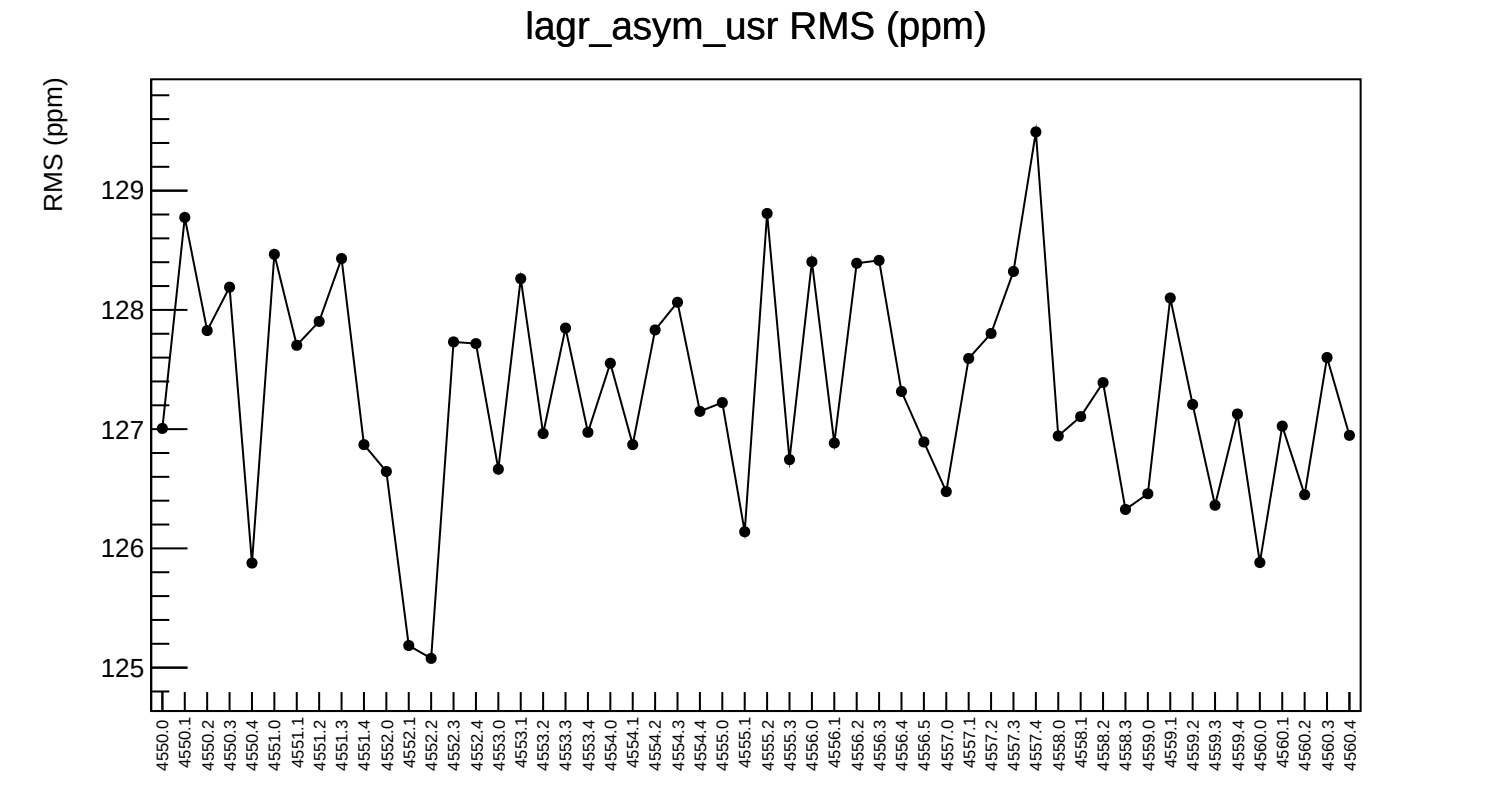

lagr_asym_us_avg RMS (ppm)
RMS (ppm)
94
93
92
91
90
89
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

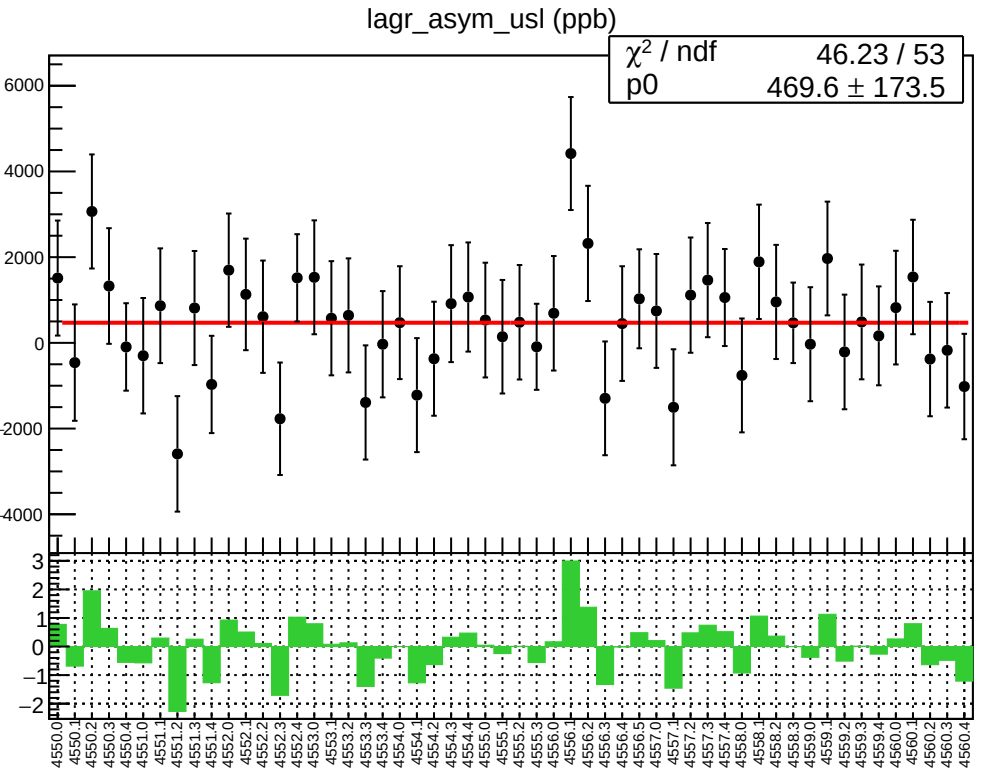

lagr_asym_us_dd (ppb)
χ² / ndf 54.57 / 53
p0 −150.2 ± 121.5
3000
2000
1000
0
-1000
-2000
-3000
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

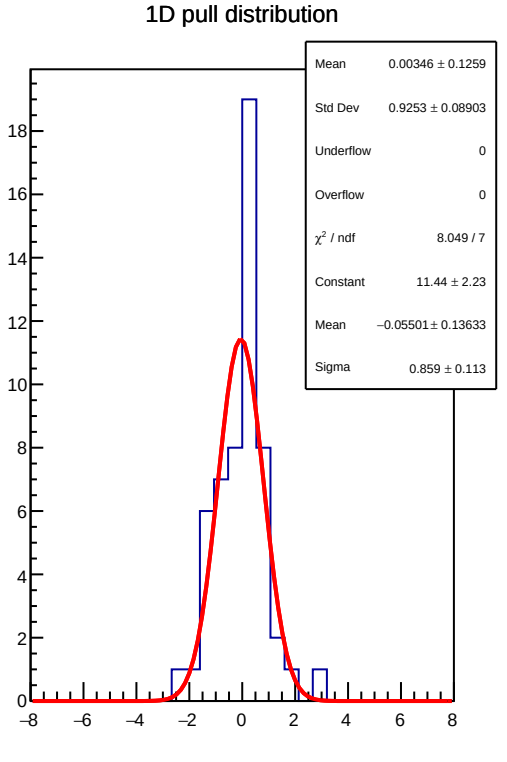

1D pull distribution
Mean 0.008452 ± 0.1368
Std Dev 1.005 ± 0.09673
Underflow 0
Overflow 0
χ² / ndf 0.3389 / 7
Constant 10.67 ± 1.89
Mean 0.05693 ± 0.15557
Sigma 1.084 ± 0.135
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

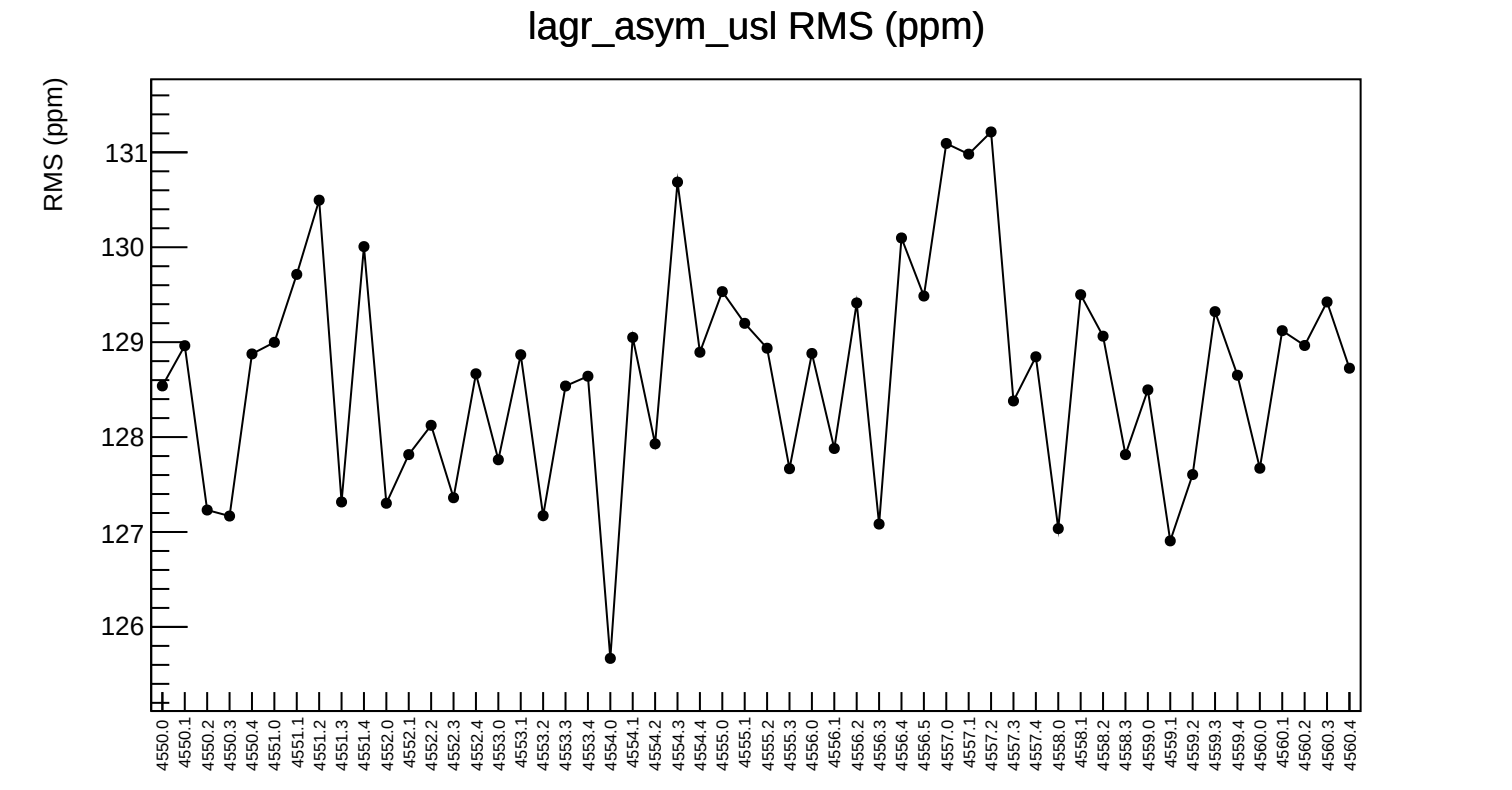

lagr_asym_us_dd RMS (ppm)
RMS (ppm)
91
90.5
90
89.5
89
88.5
88
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

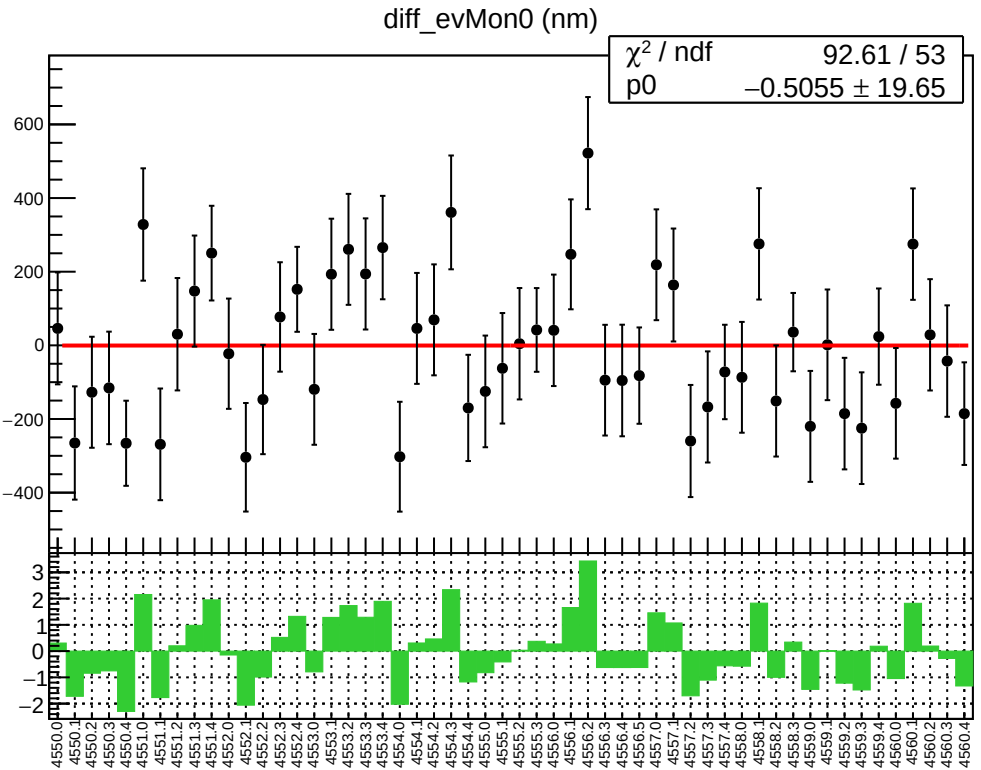

lagr_asym_usr (ppb)
χ² / ndf 76.83 / 53
p0 770.1 ± 174.2
1D pull distribution
Mean −0.008339 ± 0.1623
Std Dev 1.193 ± 0.1148
Underflow 0
Overflow 0
χ² / ndf 9.852 / 7
Constant 8.928 ± 2.425
Mean −0.0608 ± 0.2125
Sigma 1.064 ± 0.262

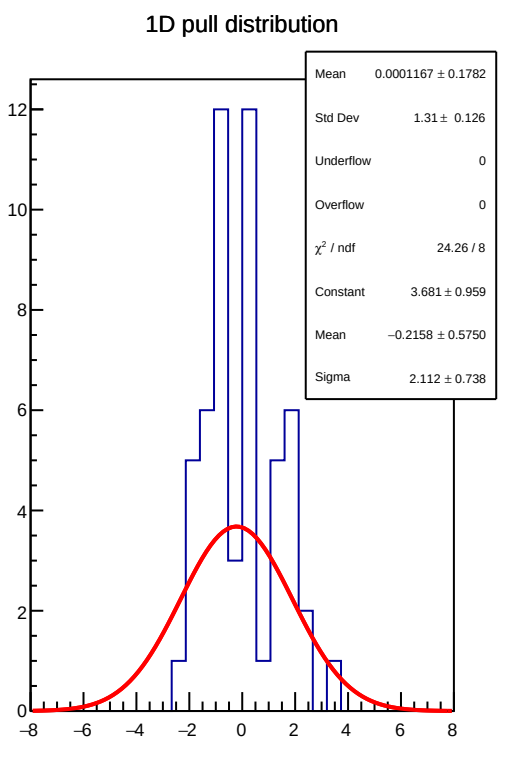

lagr_asym_usr RMS (ppm)
RMS (ppm)
129
128
127
126
125
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

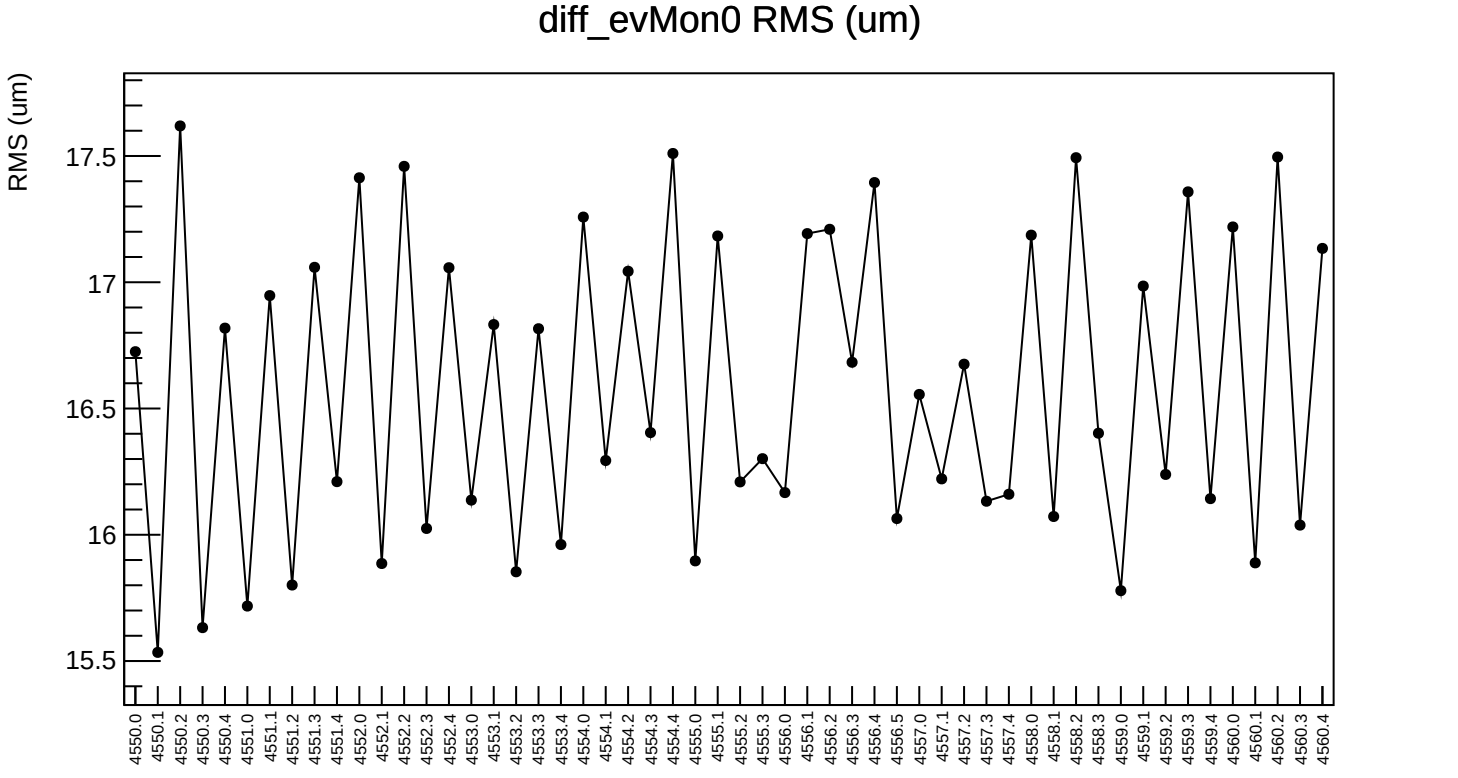

lagr_asym_usl (ppb)
χ² / ndf 46.23 / 53
p0 469.6 ± 173.5
6000
4000
2000
0
-2000
-4000
pull
3
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

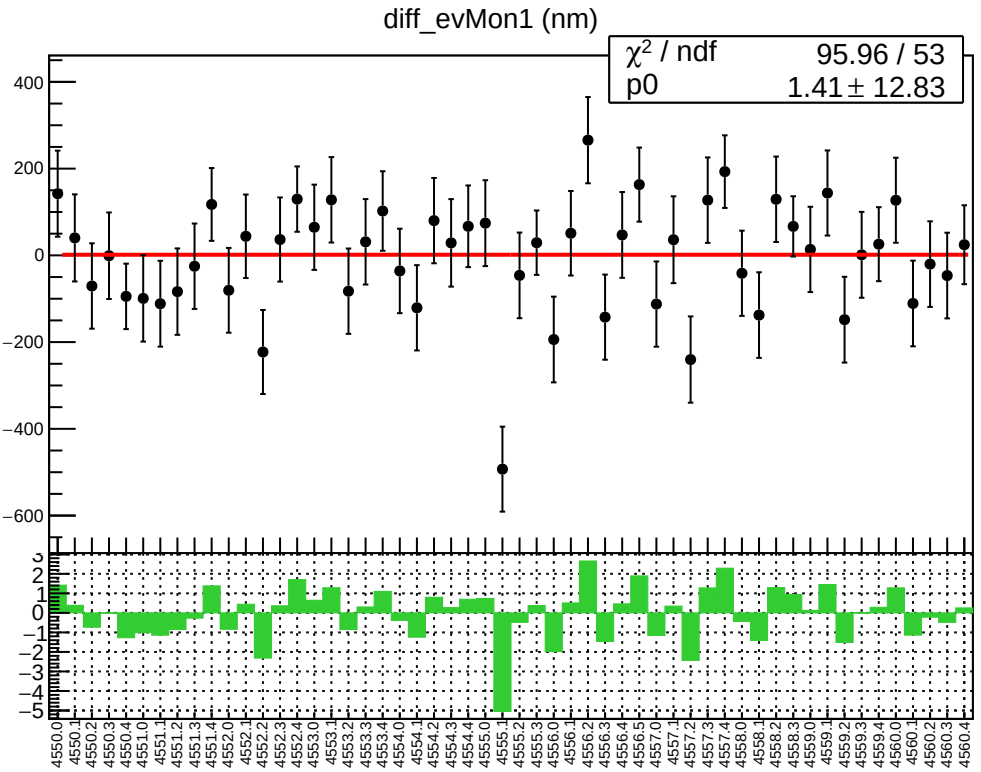

1D pull distribution
Mean 0.00346 ± 0.1259
Std Dev 0.9253 ± 0.08903
Underflow 0
Overflow 0
χ² / ndf 8.049 / 7
Constant 11.44 ± 2.23
Mean −0.05501 ± 0.13633
Sigma 0.859 ± 0.113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

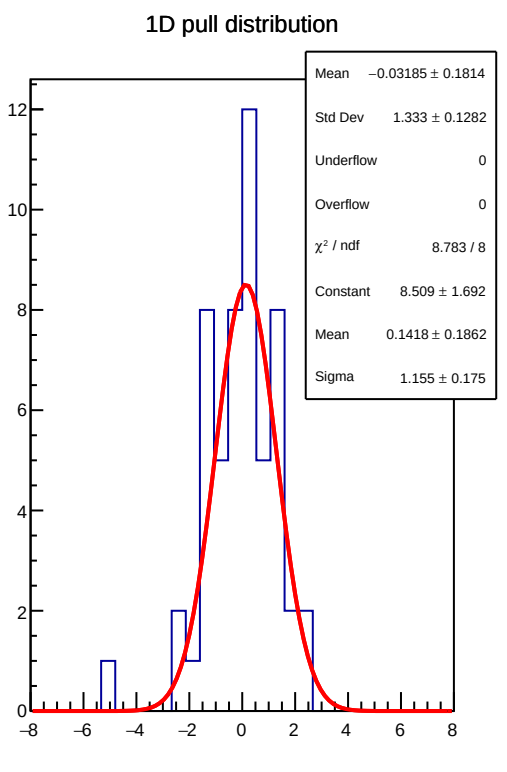

lagr_asym_usl RMS (ppm)
RMS (ppm)
131
130
129
128
127
126
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

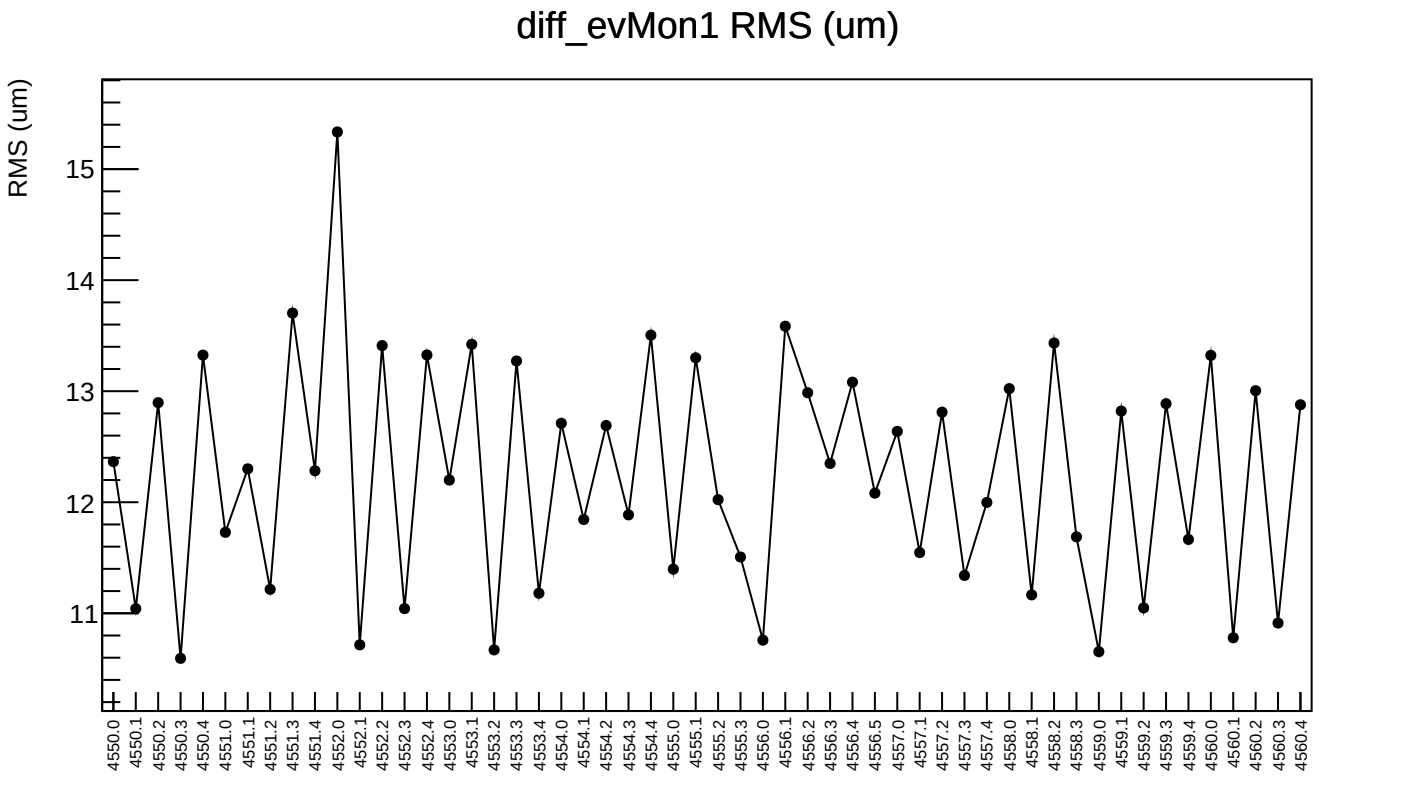

diff_evMon0 (nm)
χ² / ndf 92.61 / 53
p0 −0.5055 ± 19.65
600
400
200
0
−200
−400
3
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

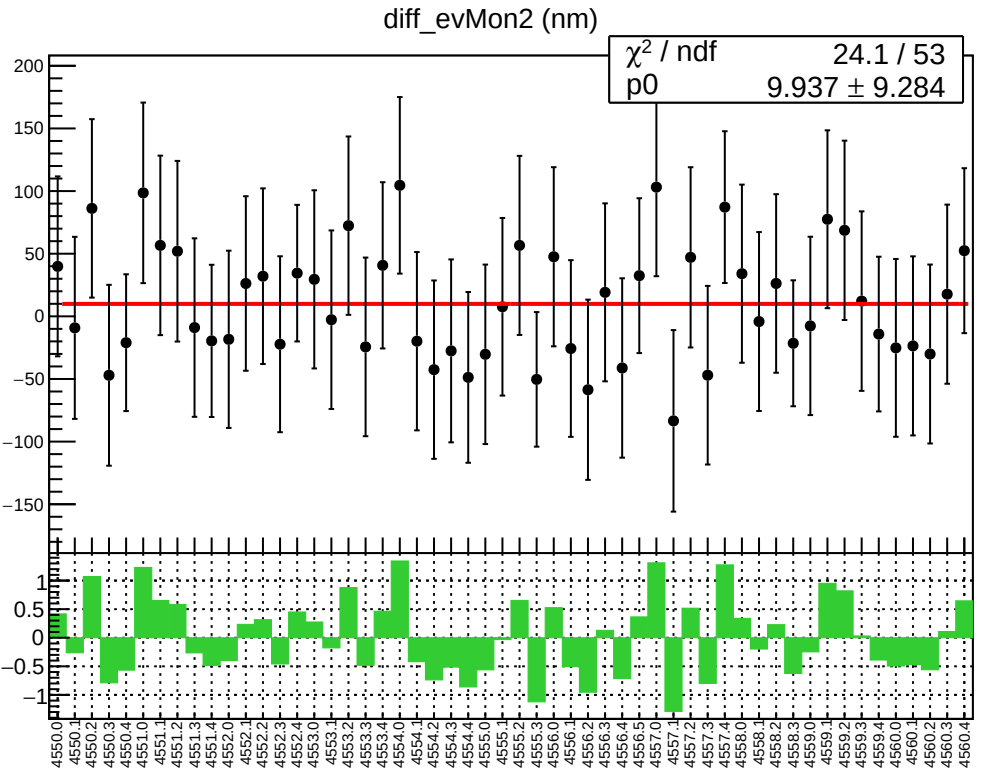

1D pull distribution
Mean 0.0001167 ± 0.1782
Std Dev 1.31 ± 0.126
Underflow 0
Overflow 0
χ² / ndf 24.26 / 8
Constant 3.681 ± 0.959
Mean −0.2158 ± 0.5750
Sigma 2.112 ± 0.738
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

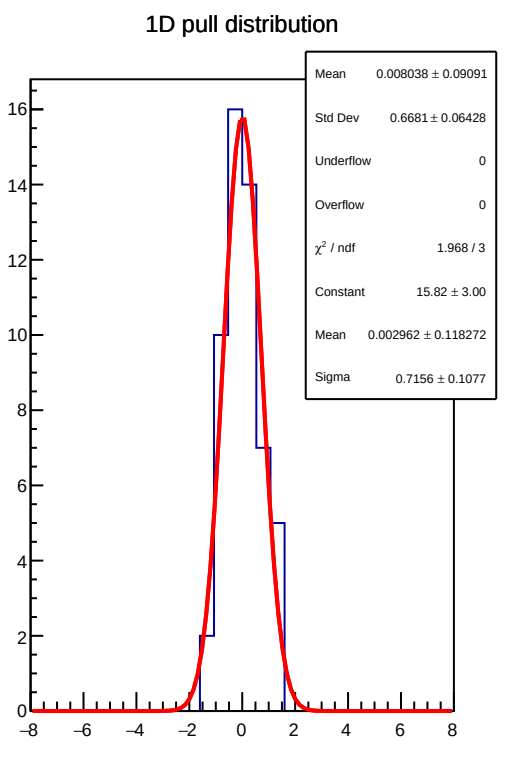

diff_evMon0 RMS (um)
RMS (um)
17.5
17
16.5
16
15.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

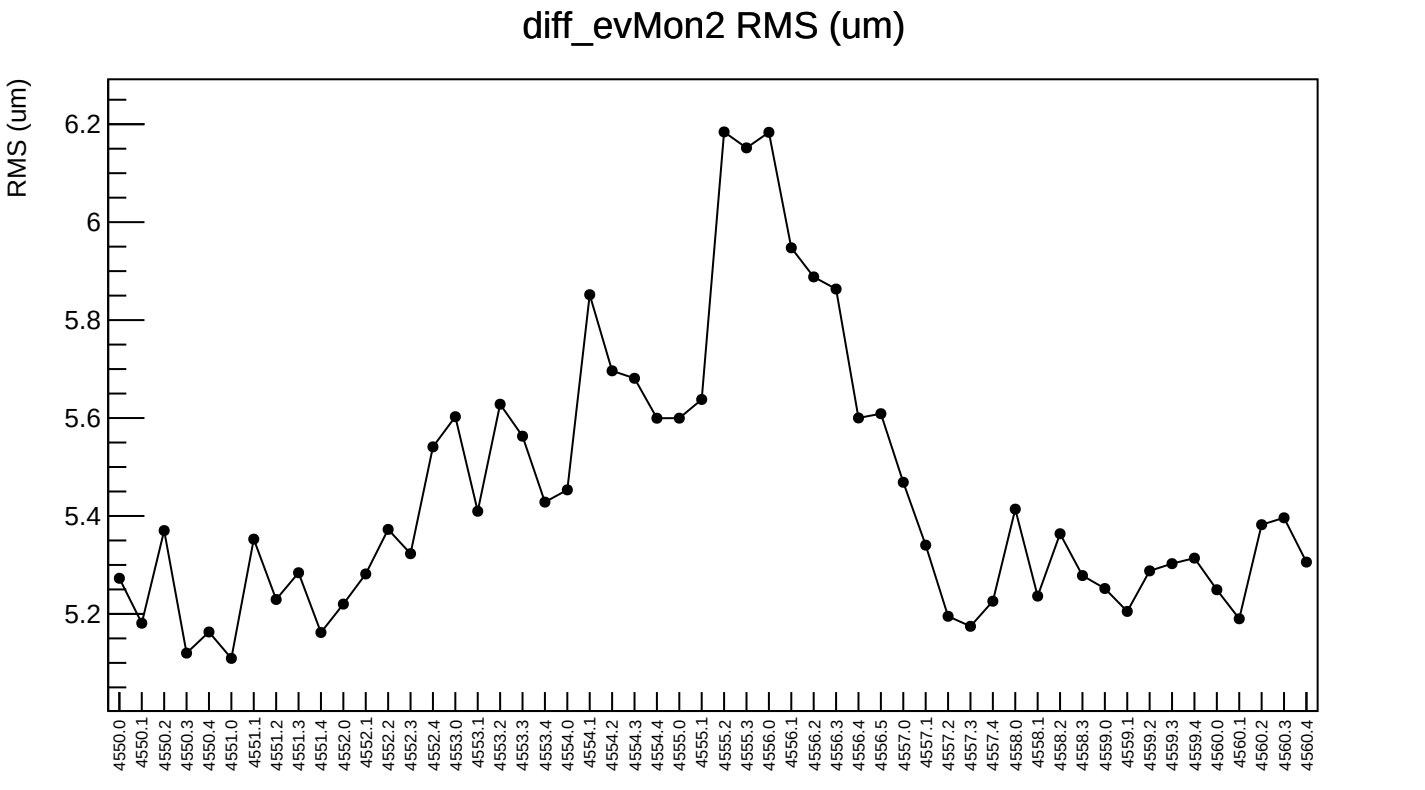

diff_evMon1 (nm)
χ² / ndf 95.96 / 53
p0 1.41 ± 12.83
400
200
0
−200
−400
−600
3
2
1
0
−1
−2
−3
−4
−5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

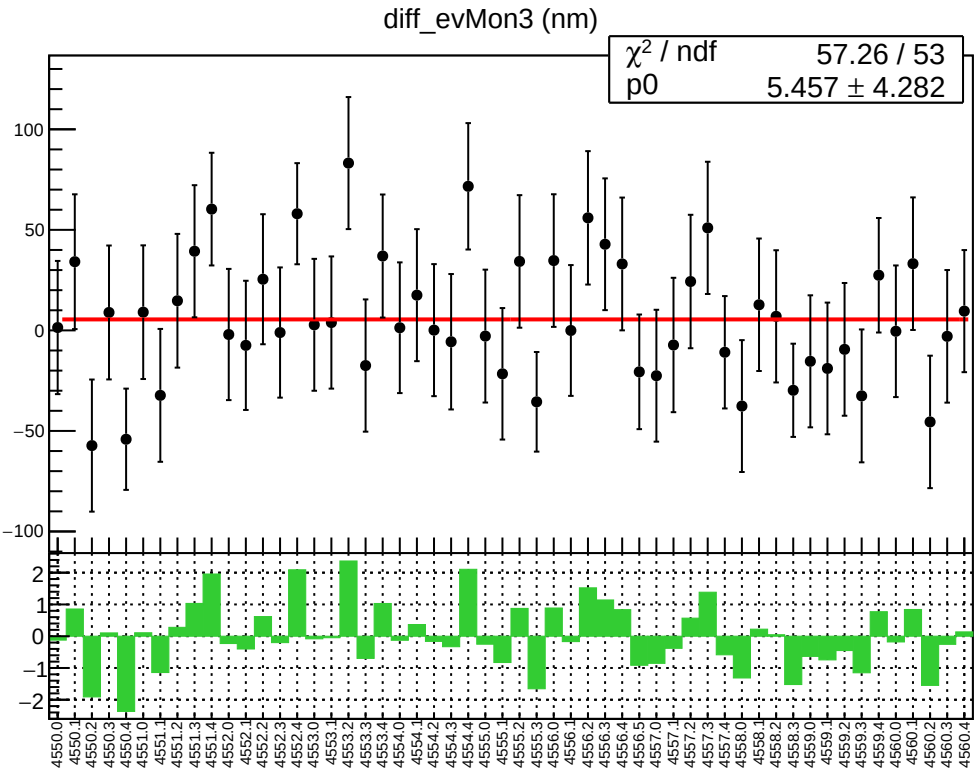

1D pull distribution
Mean −0.03185 ± 0.1814
Std Dev 1.333 ± 0.1282
Underflow 0
Overflow 0
χ² / ndf 8.783 / 8
Constant 8.509 ± 1.692
Mean 0.1418 ± 0.1862
Sigma 1.155 ± 0.175
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

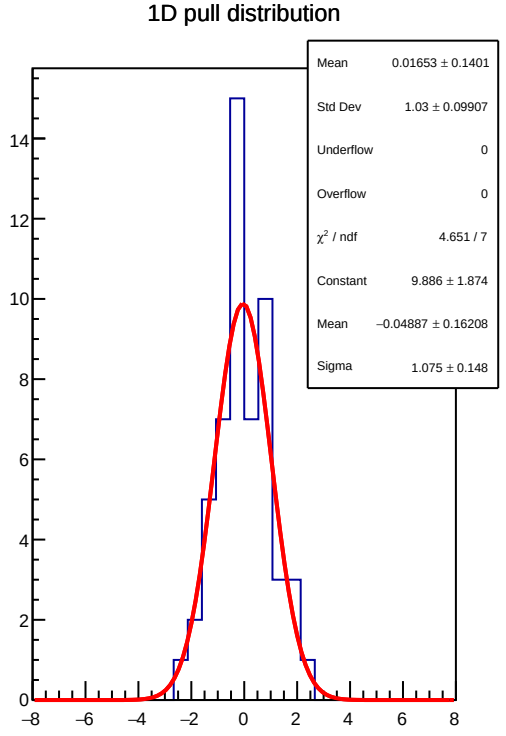

diff_evMon1 RMS (um)
RMS (um)
15
14
13
12
11
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

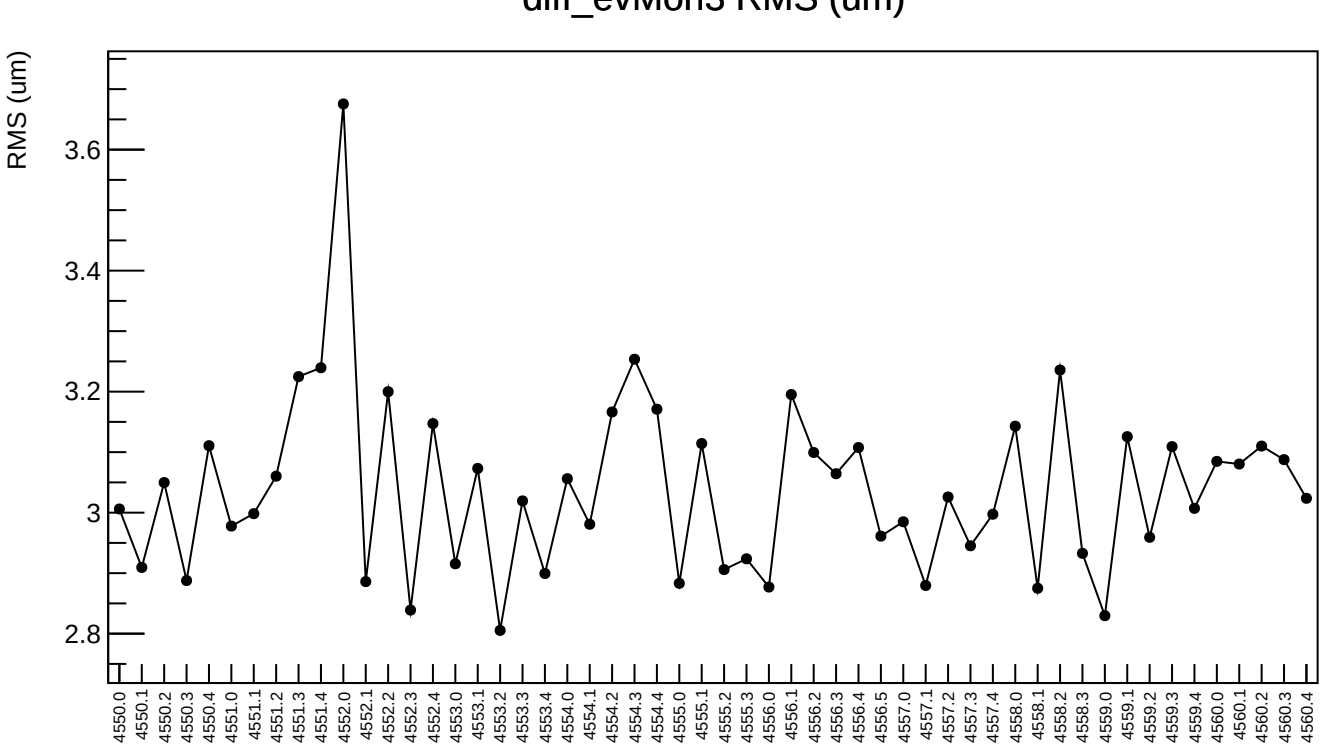

diff_evMon2 (nm)
χ² / ndf 24.1 / 53
p0 9.937 ± 9.284

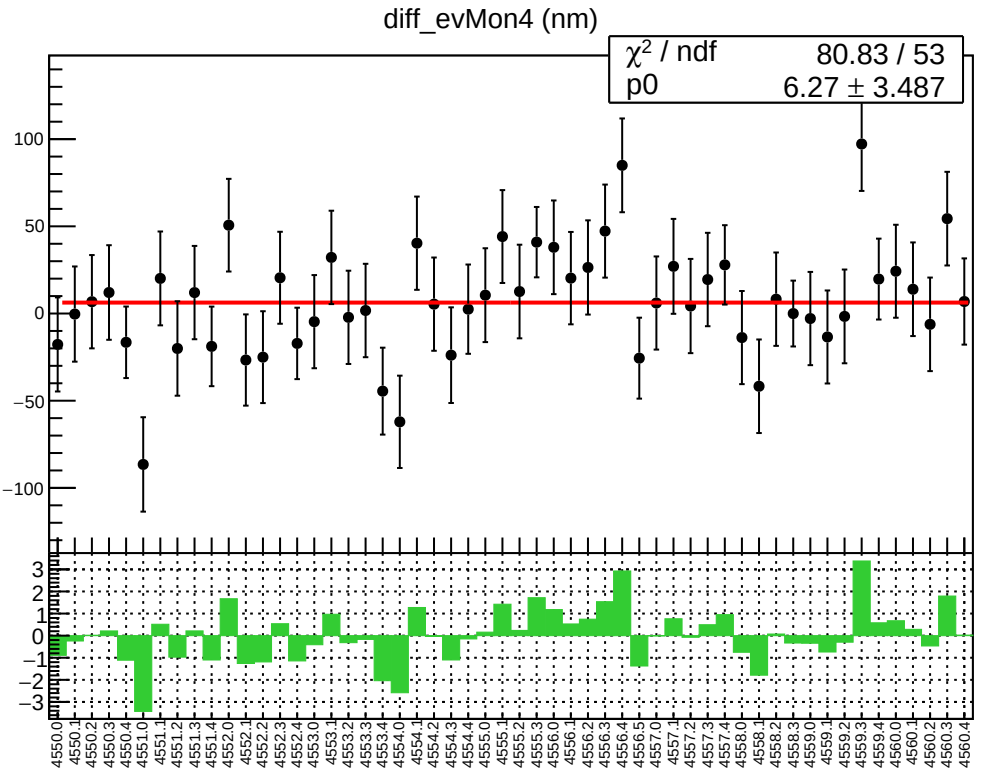

1D pull distribution
Mean 0.008038 ± 0.09091
Std Dev 0.6681 ± 0.06428
Underflow 0
Overflow 0
χ² / ndf 1.968 / 3
Constant 15.82 ± 3.00
Mean 0.002962 ± 0.118272
Sigma 0.7156 ± 0.1077

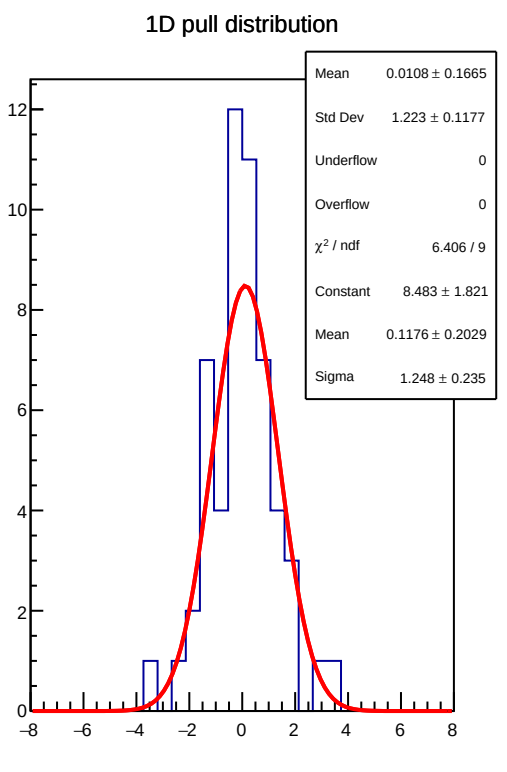

diff_evMon2 RMS (um)
RMS (um)
6.2
6
5.8
5.6
5.4
5.2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

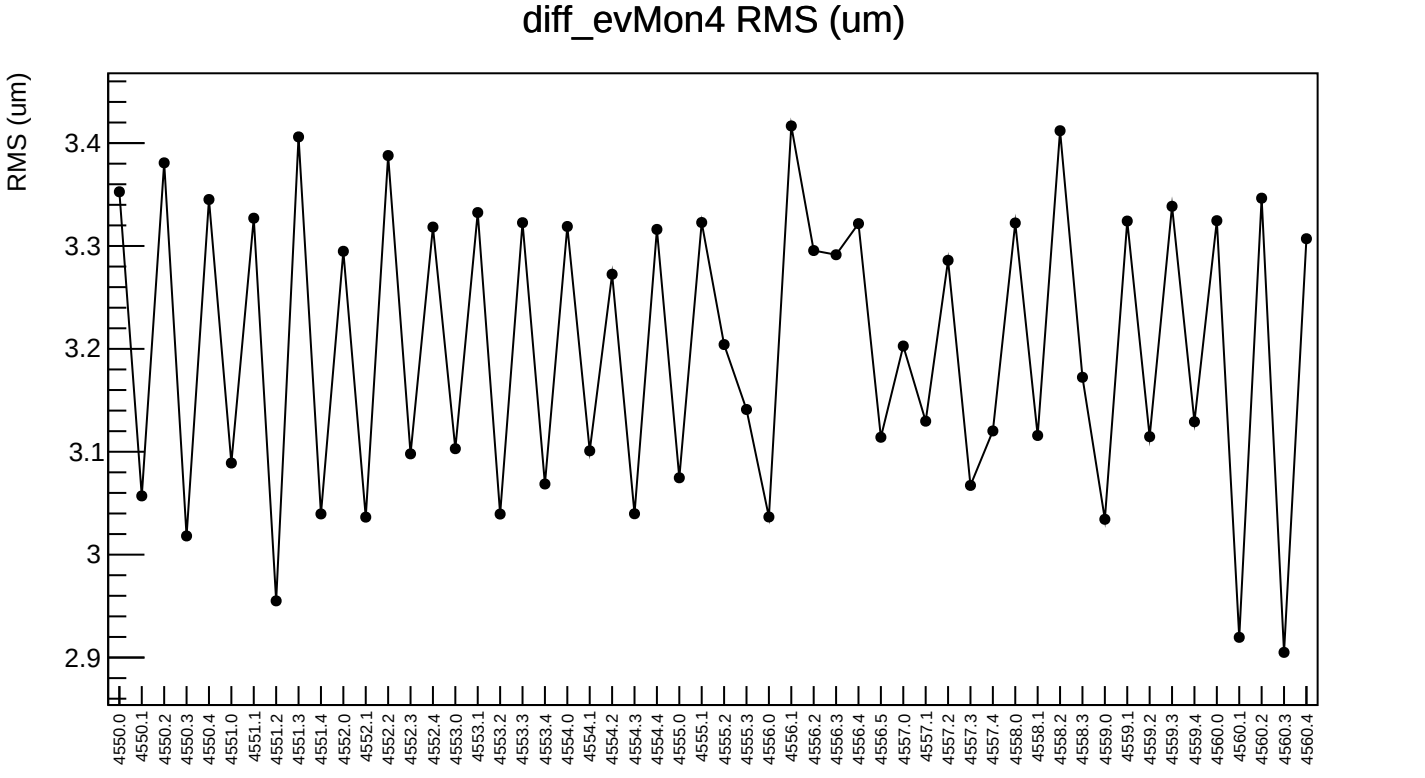

diff_evMon3 (nm)
χ² / ndf 57.26 / 53
p0 5.457 ± 4.282
100
50
0
−50
−100
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

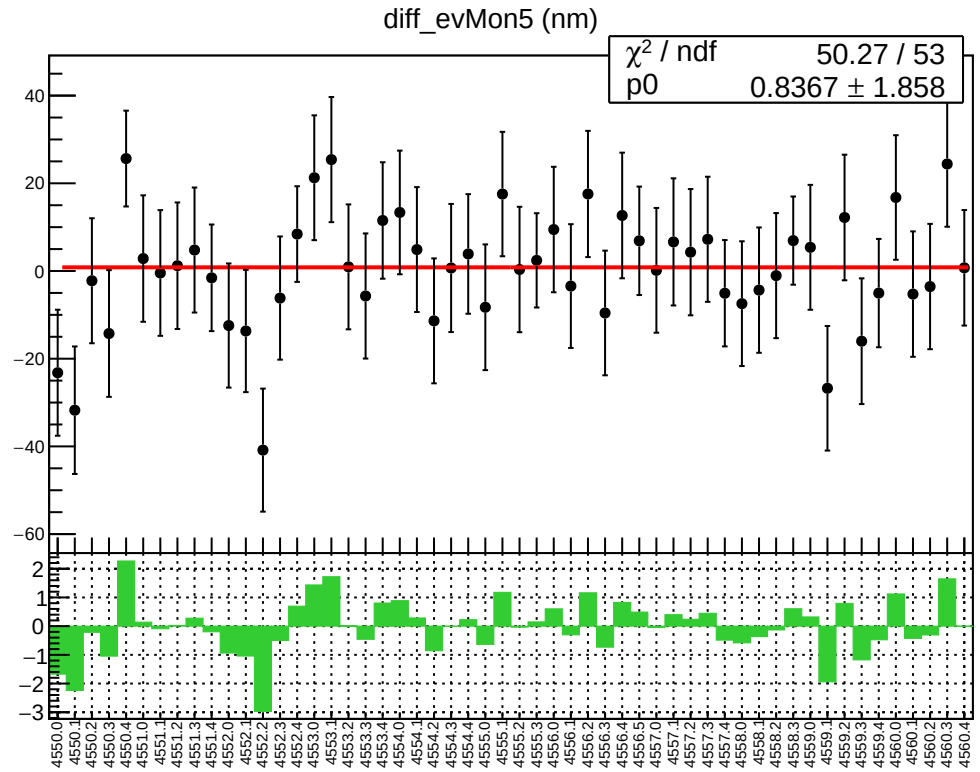

1D pull distribution
Mean 0.01653 ± 0.1401
Std Dev 1.03 ± 0.09907
Underflow 0
Overflow 0
χ² / ndf 4.651 / 7
Constant 9.886 ± 1.874
Mean −0.04887 ± 0.16208
Sigma 1.075 ± 0.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

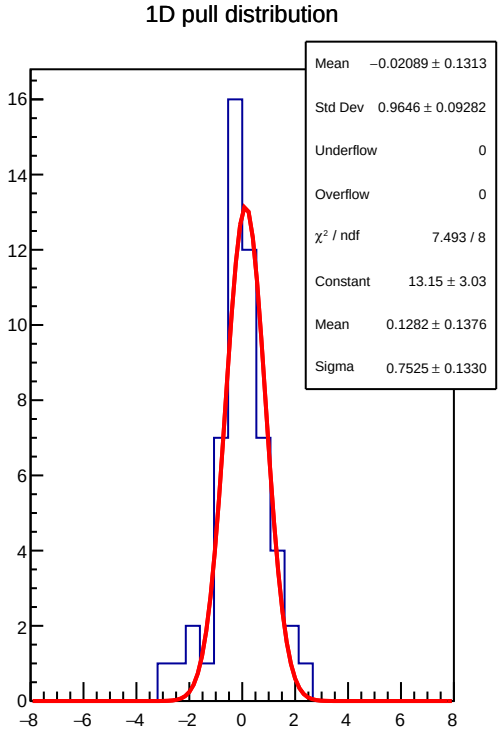

diff_evMon3 RMS (um)
RMS (um)
3.6
3.4
3.2
3
2.8
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

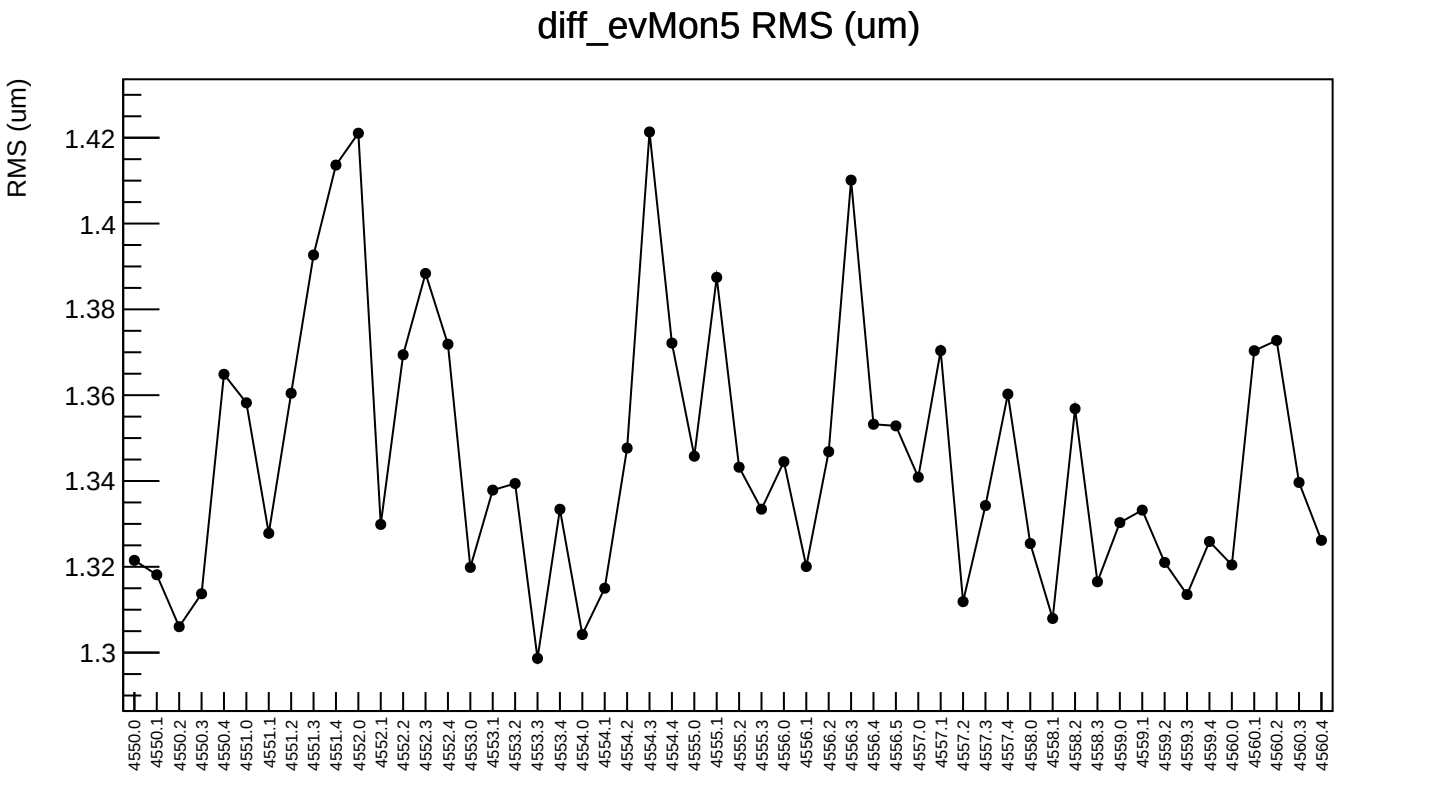

diff_evMon4 (nm)
χ² / ndf 80.83 / 53
p0 6.27 ± 3.487
100
50
0
−50
−100
3
2
1
0
−1
−2
−3
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

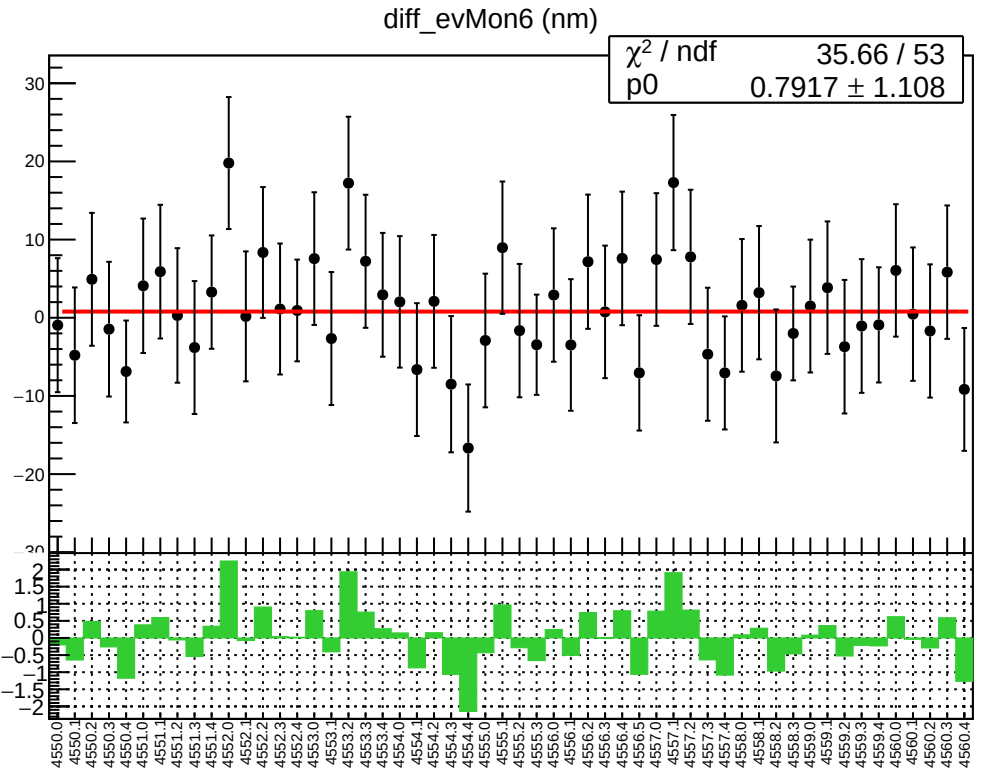

1D pull distribution
Mean 0.0108 ± 0.1665
Std Dev 1.223 ± 0.1177
Underflow 0
Overflow 0
χ² / ndf 6.406 / 9
Constant 8.483 ± 1.821
Mean 0.1176 ± 0.2029
Sigma 1.248 ± 0.235
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

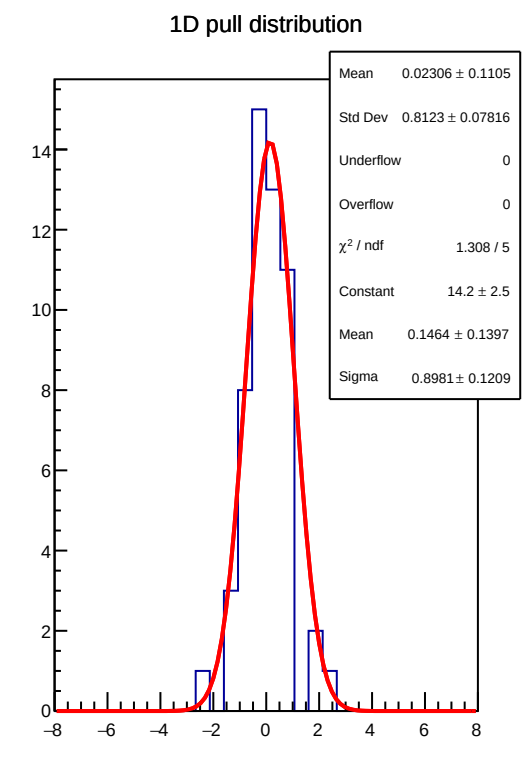

diff_evMon4 RMS (um)
RMS (um)
3.4
3.3
3.2
3.1
3
2.9
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

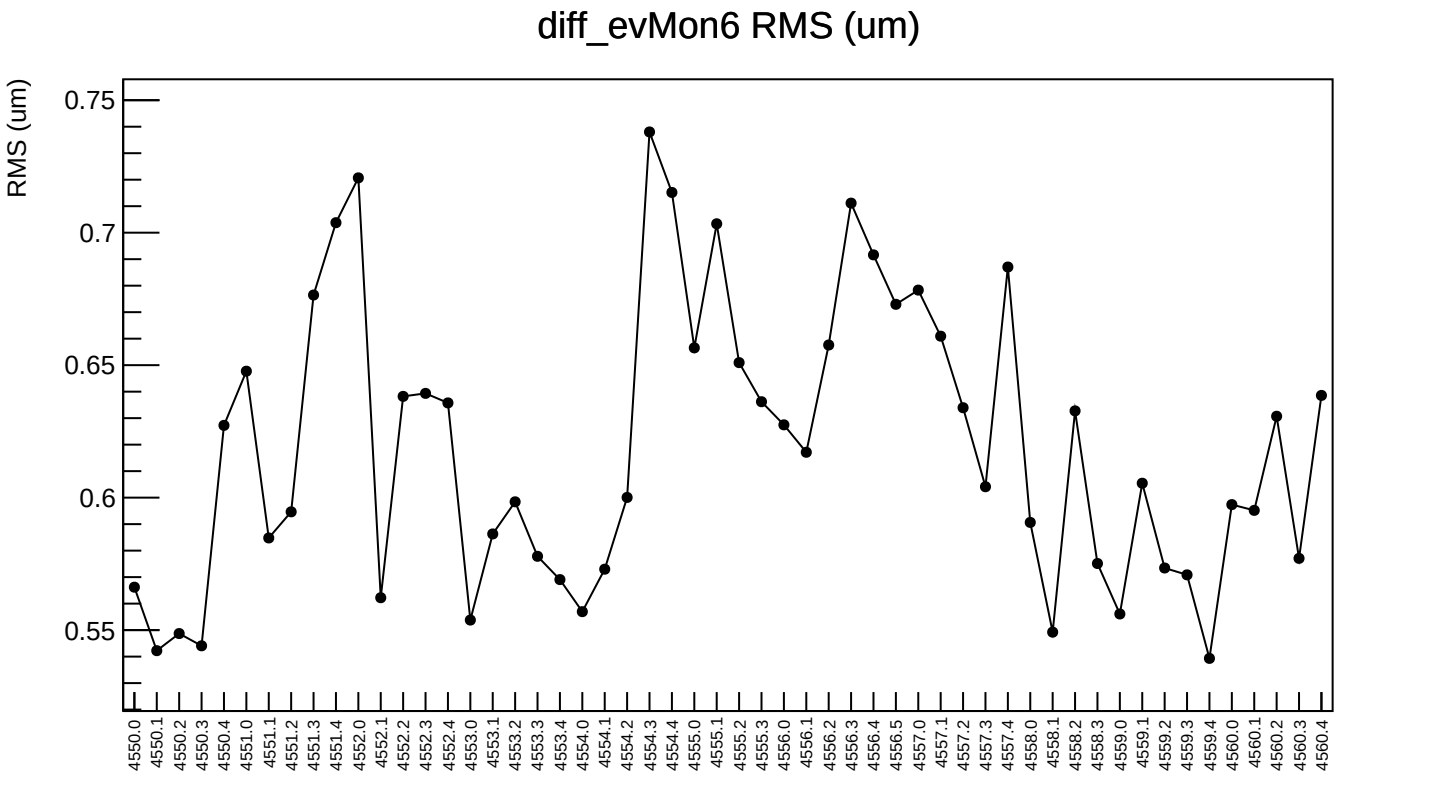

diff_evMon5 (nm)
χ² / ndf 50.27 / 53
p0 0.8367 ± 1.858
40
20
0
−20
−40
−60
2
1
0
−1
−2
−3
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

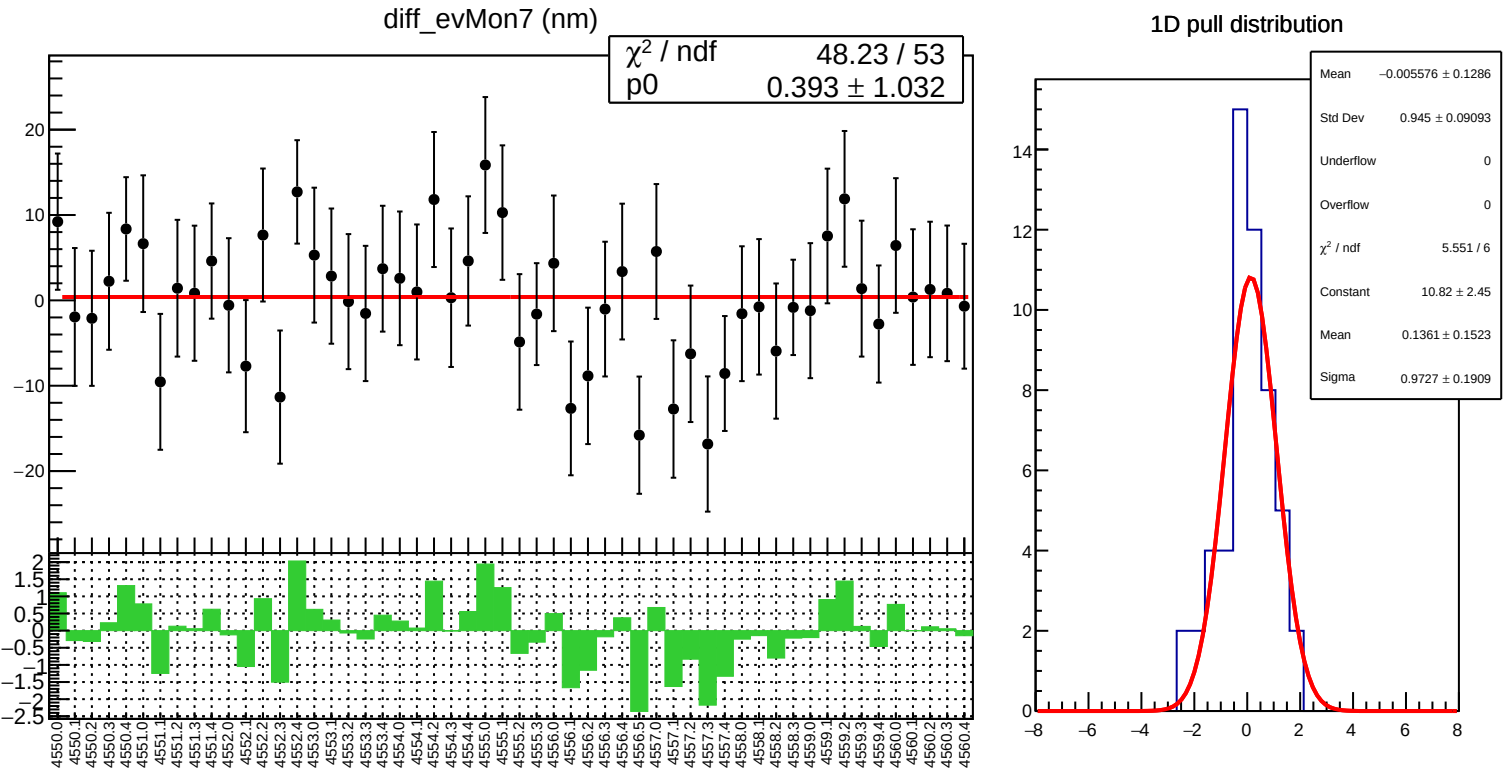

1D pull distribution
Mean −0.02089 ± 0.1313
Std Dev 0.9646 ± 0.09282
Underflow 0
Overflow 0
χ² / ndf 7.493 / 8
Constant 13.15 ± 3.03
Mean 0.1282 ± 0.1376
Sigma 0.7525 ± 0.1330
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

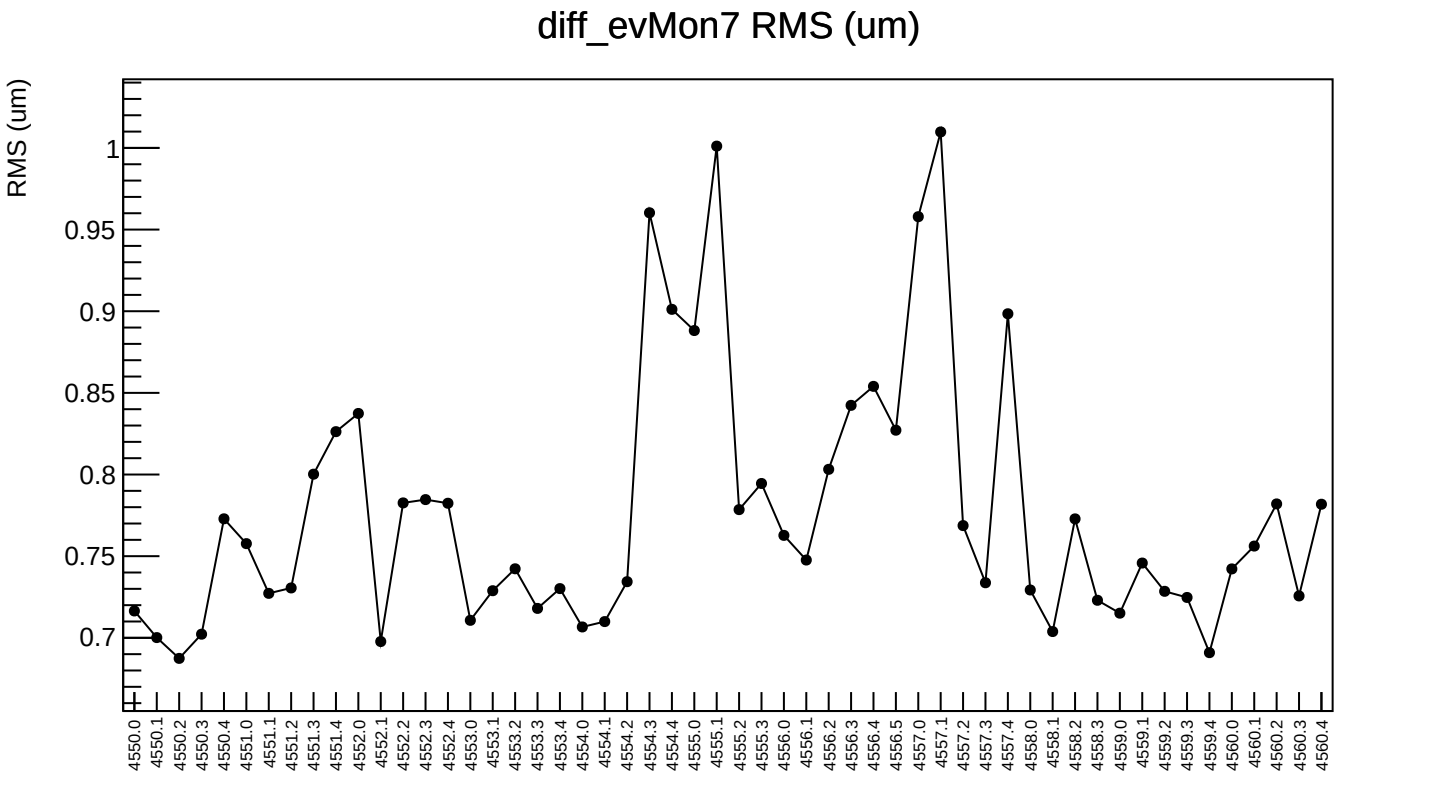

diff_evMon5 RMS (um)
RMS (um)
1.42
1.4
1.38
1.36
1.34
1.32
1.3
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

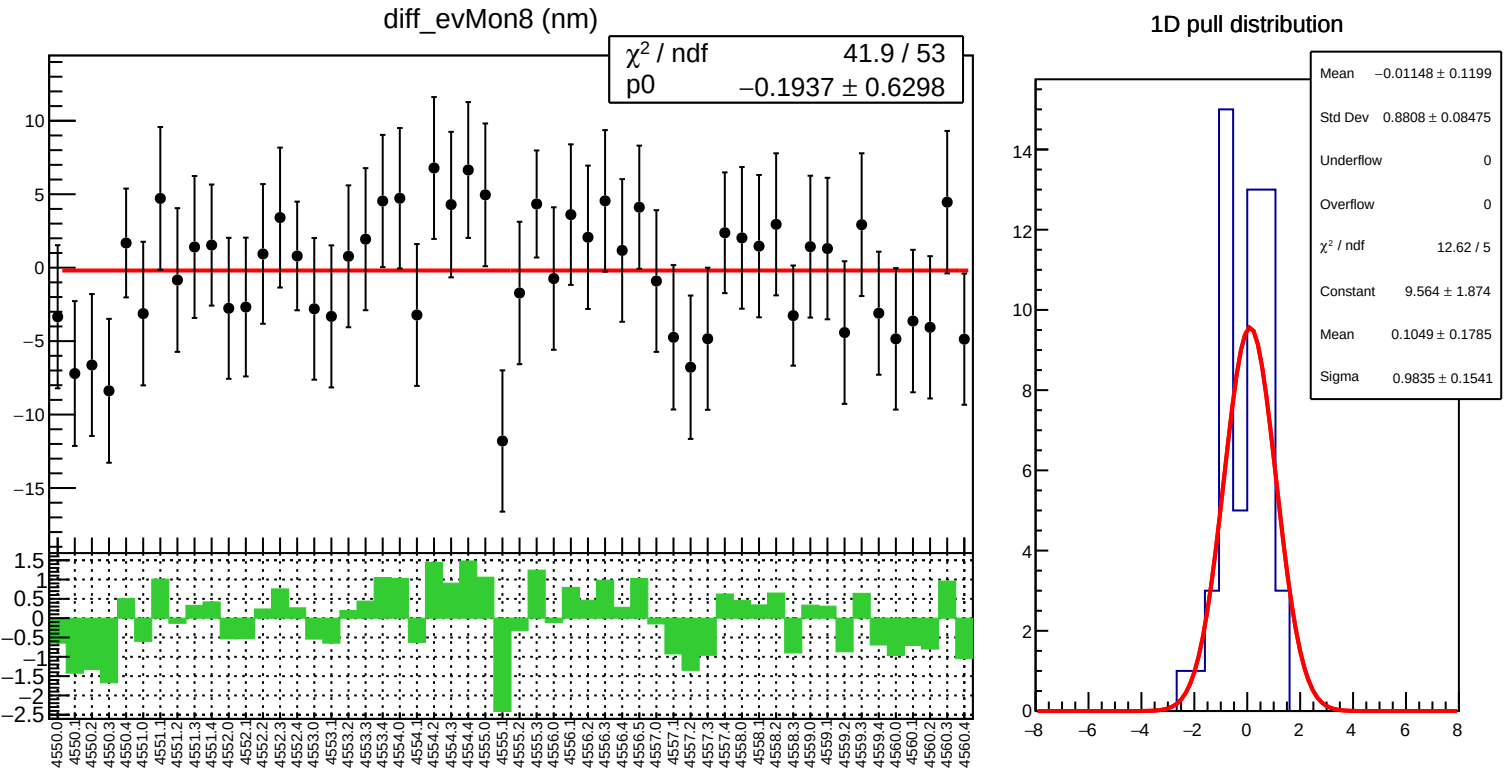

diff_evMon6 (nm)
χ² / ndf 35.66 / 53
p0 0.7917 ± 1.108

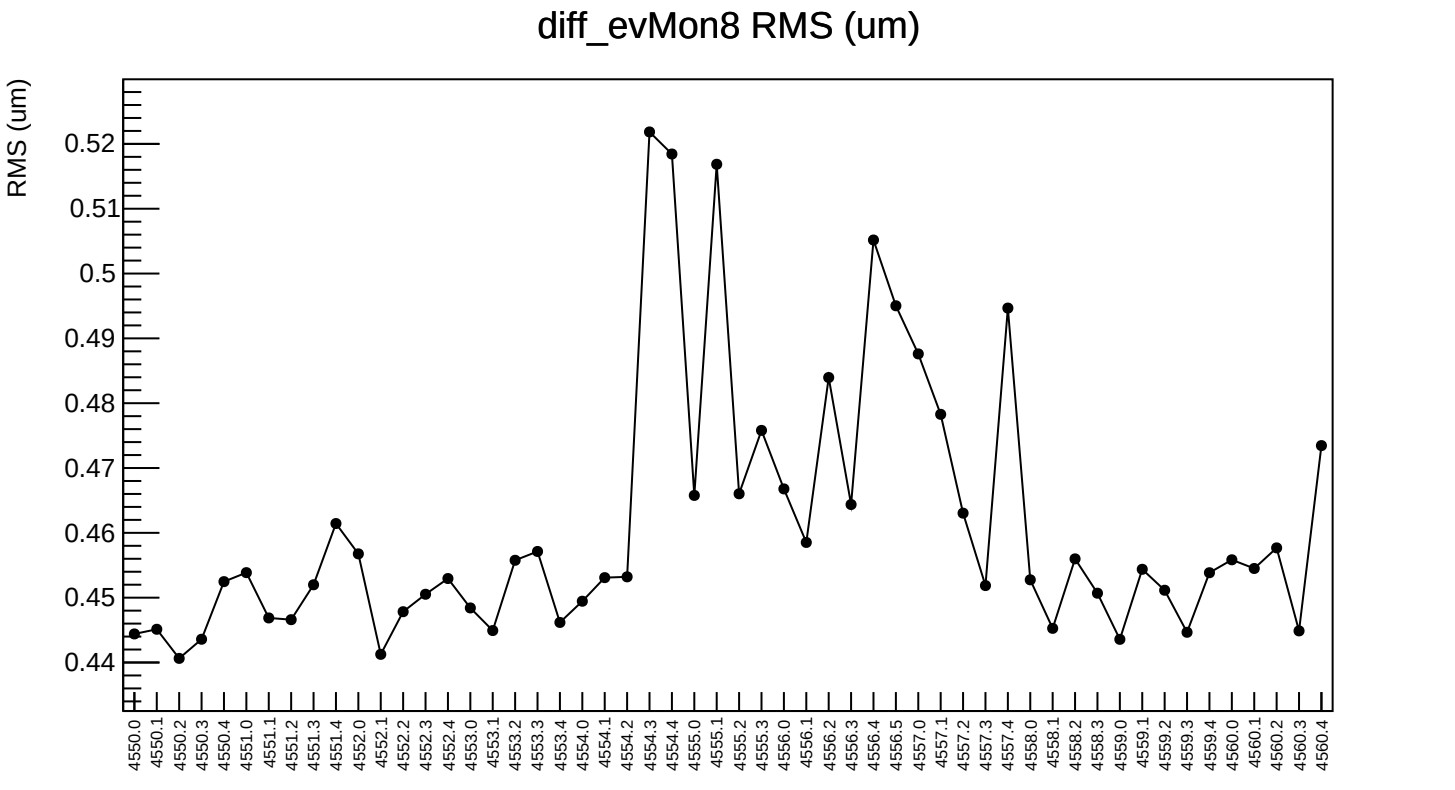

1D pull distribution
Mean 0.02306 ± 0.1105
Std Dev 0.8123 ± 0.07816
Underflow 0
Overflow 0
χ² / ndf 1.308 / 5
Constant 14.2 ± 2.5
Mean 0.1464 ± 0.1397
Sigma 0.8981 ± 0.1209

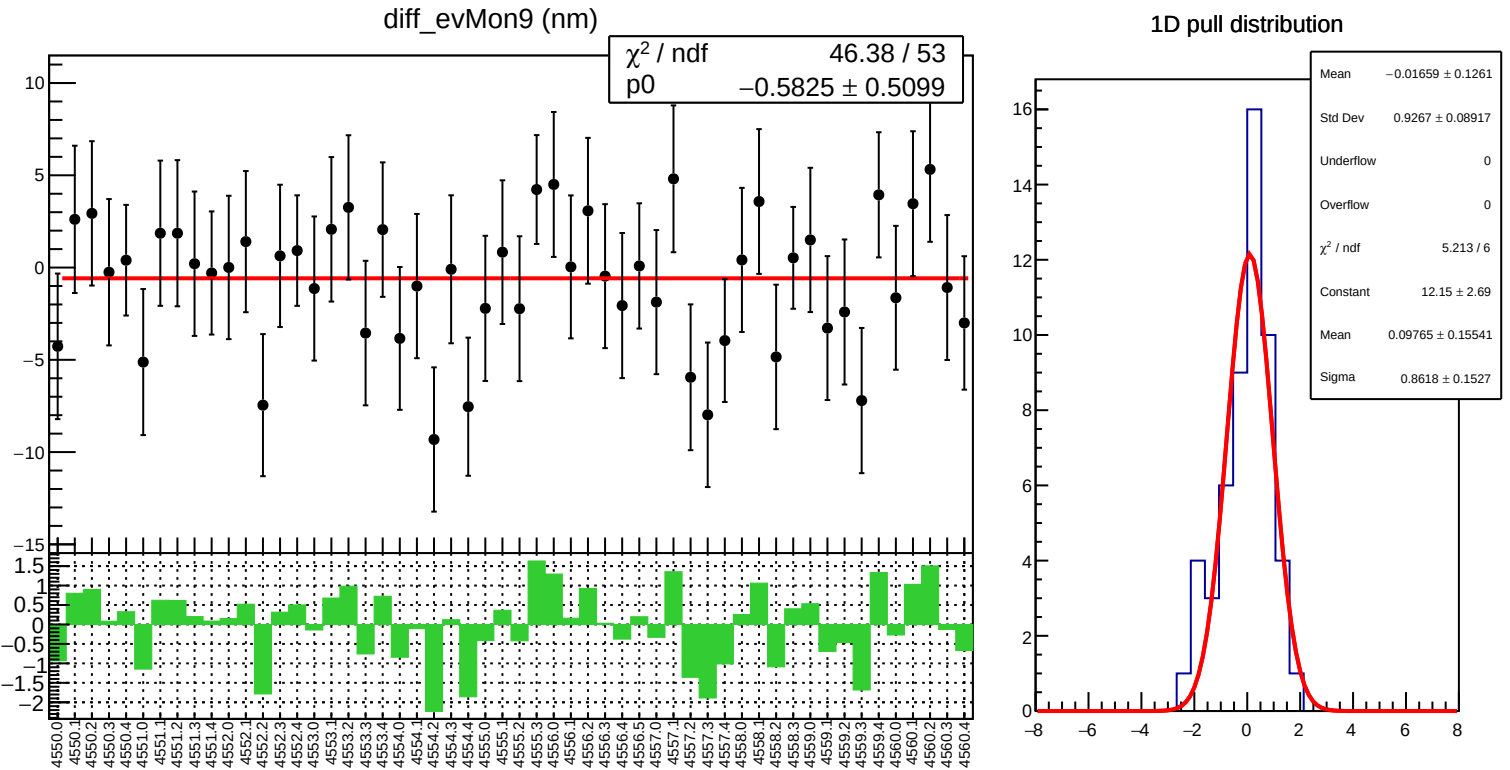

diff_evMon6 RMS (um)
RMS (um)
0.75
0.7
0.65
0.6
0.55
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

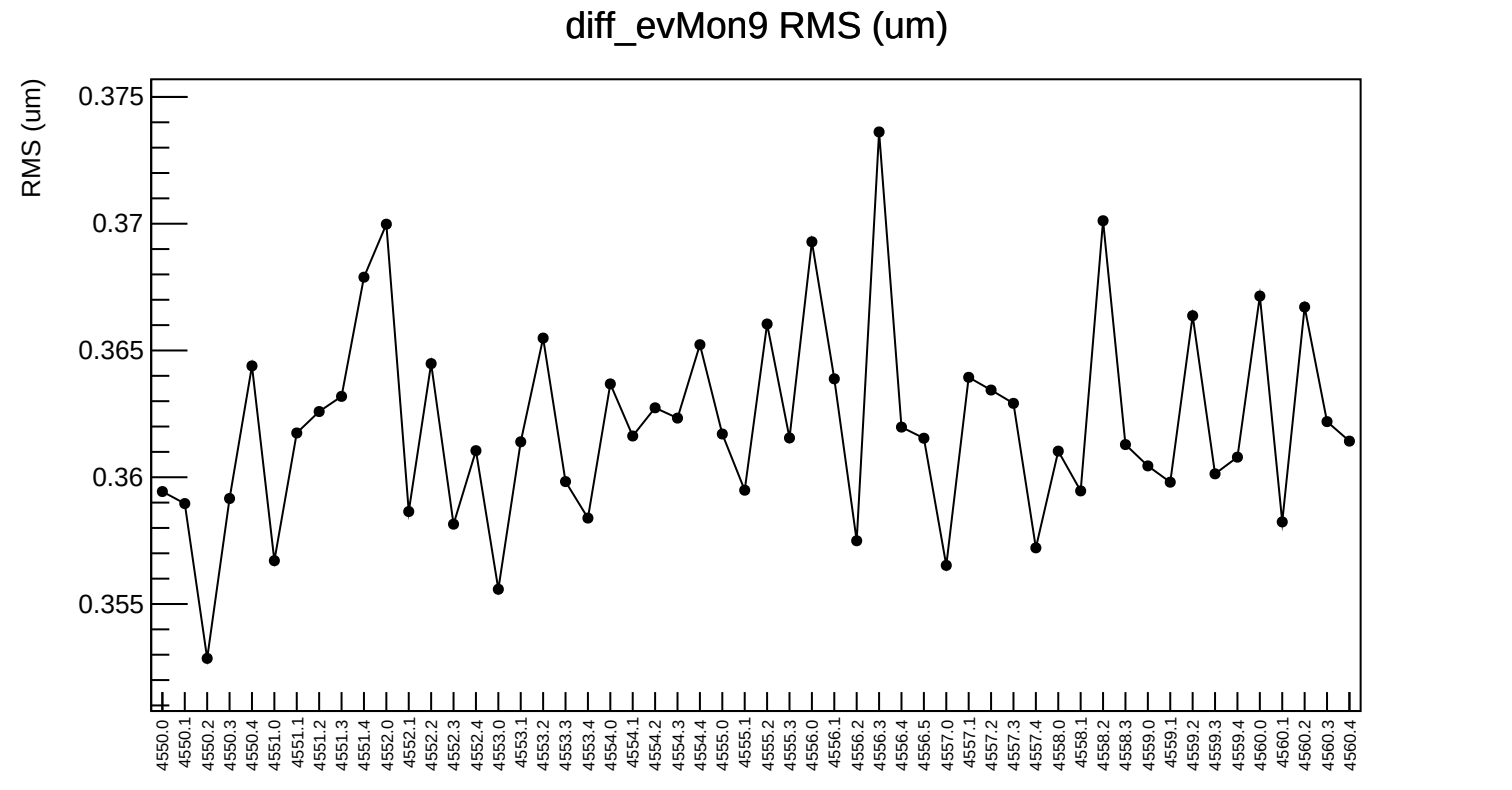

diff_evMon7 (nm)
χ² / ndf 48.23 / 53
p0 0.393 ± 1.032
1D pull distribution
Mean −0.005576 ± 0.1286
Std Dev 0.945 ± 0.09093
Underflow 0
Overflow 0
χ² / ndf 5.551 / 6
Constant 10.82 ± 2.45
Mean 0.1361 ± 0.1523
Sigma 0.9727 ± 0.1909

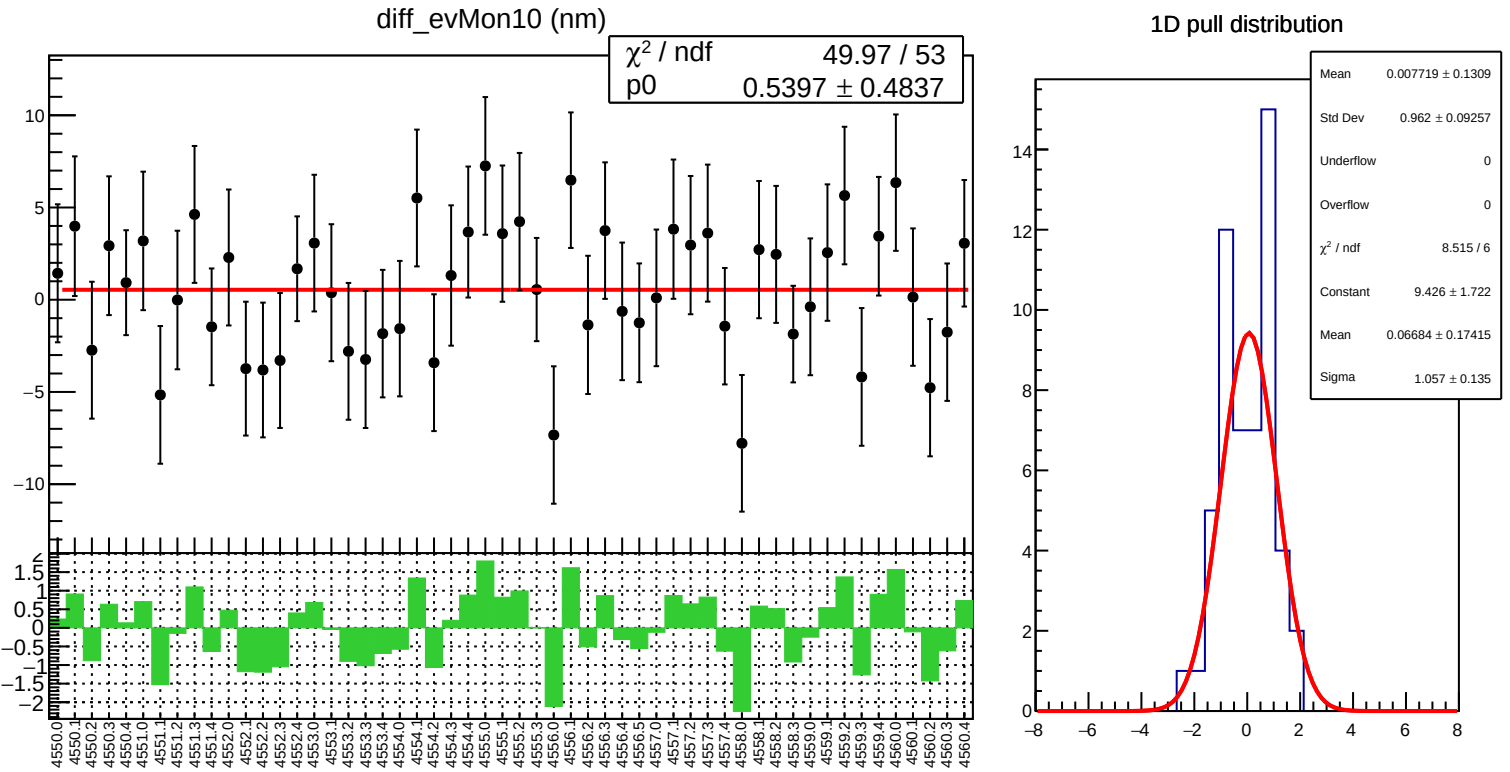

diff_evMon7 RMS (um)
RMS (um)
1
0.95
0.9
0.85
0.8
0.75
0.7
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

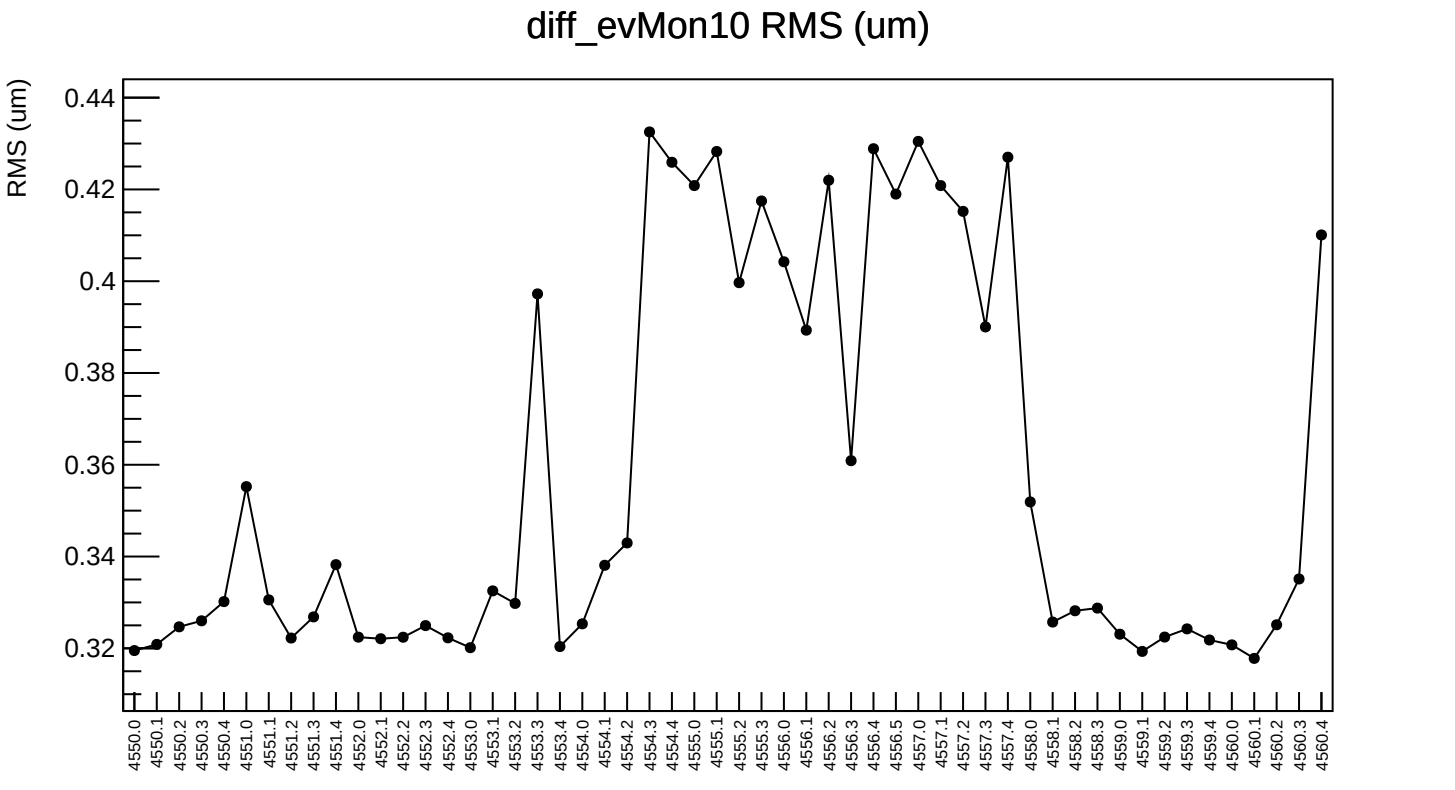

diff_evMon8 (nm)
χ² / ndf 41.9 / 53
p0 −0.1937 ± 0.6298
1D pull distribution
Mean −0.01148 ± 0.1199
Std Dev 0.8808 ± 0.08475
Underflow 0
Overflow 0
χ² / ndf 12.62 / 5
Constant 9.564 ± 1.874
Mean 0.1049 ± 0.1785
Sigma 0.9835 ± 0.1541

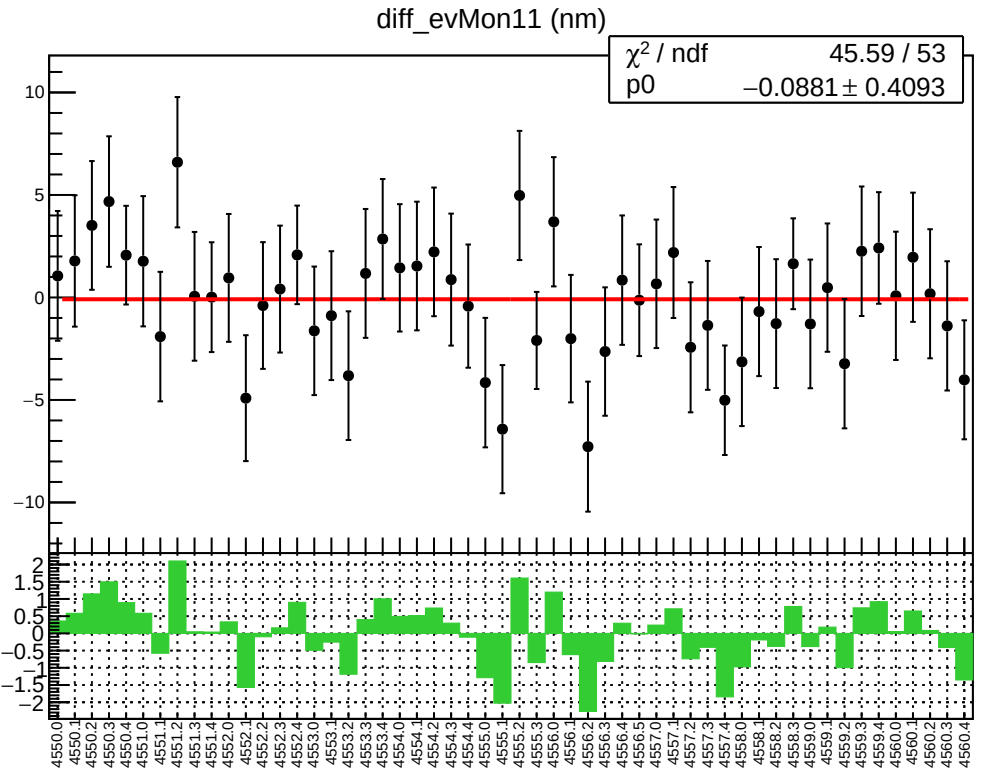

diff_evMon8 RMS (um)
RMS (um)
0.52
0.51
0.5
0.49
0.48
0.47
0.46
0.45
0.44
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

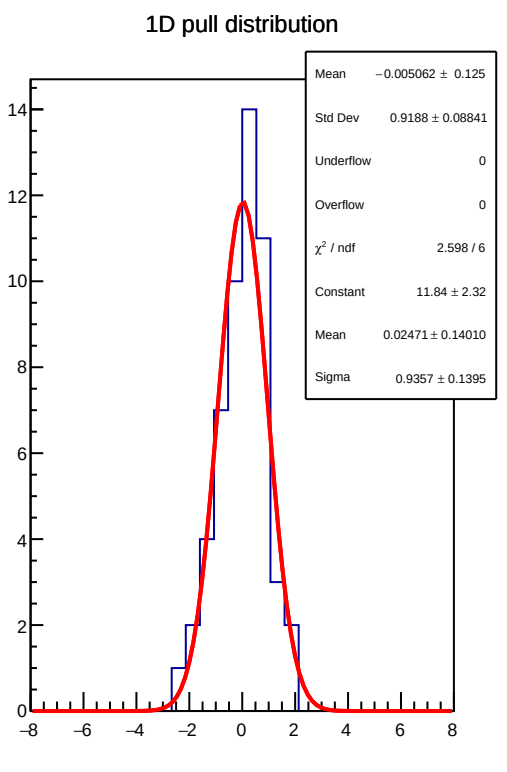

diff_evMon9 (nm)
χ² / ndf 46.38 / 53
p0 −0.5825 ± 0.5099
1D pull distribution
Mean −0.01659 ± 0.1261
Std Dev 0.9267 ± 0.08917
Underflow 0
Overflow 0
χ² / ndf 5.213 / 6
Constant 12.15 ± 2.69
Mean 0.09765 ± 0.15541
Sigma 0.8618 ± 0.1527

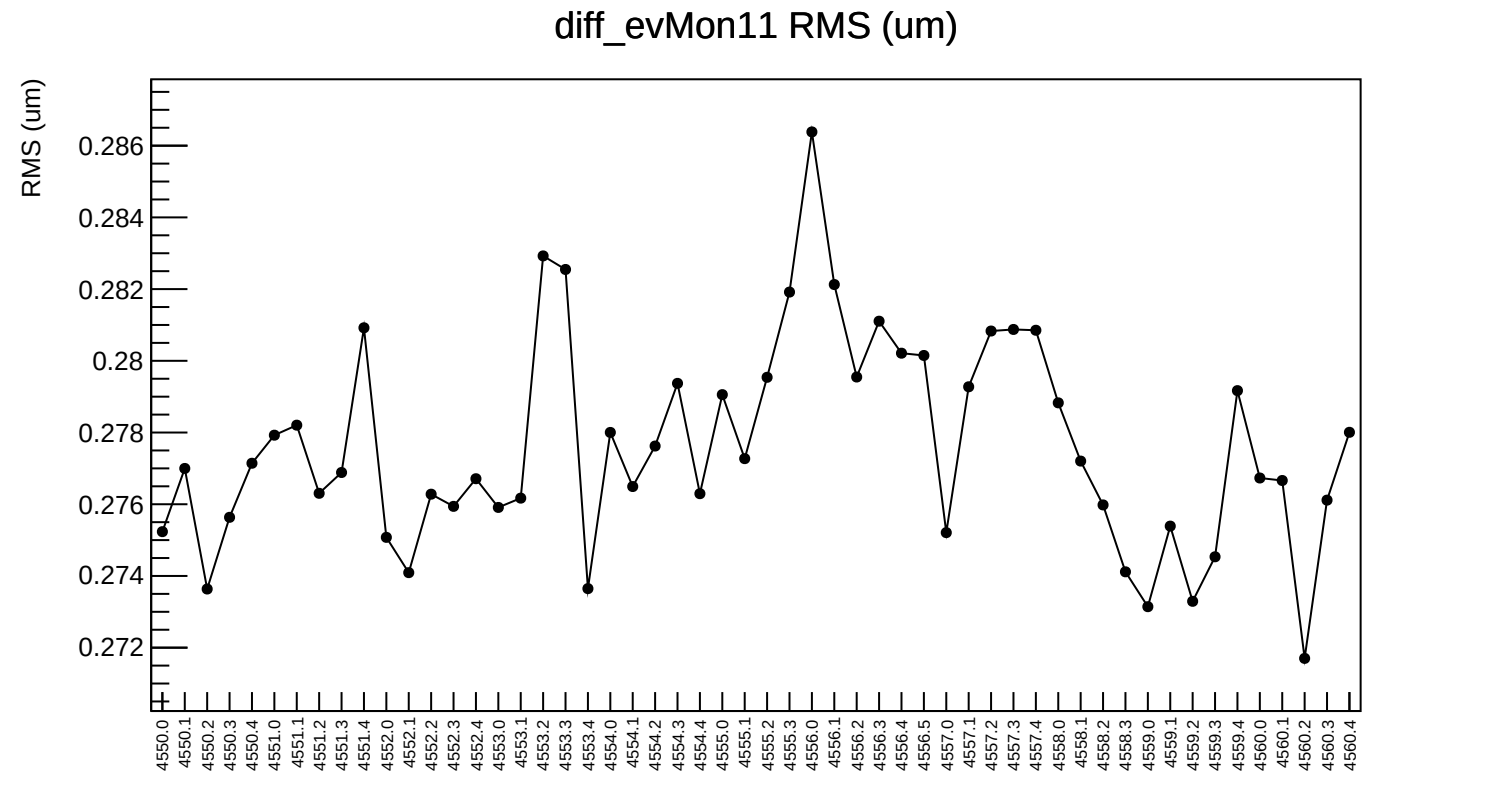

diff_evMon9 RMS (um)
RMS (um)
0.375
0.37
0.365
0.36
0.355
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

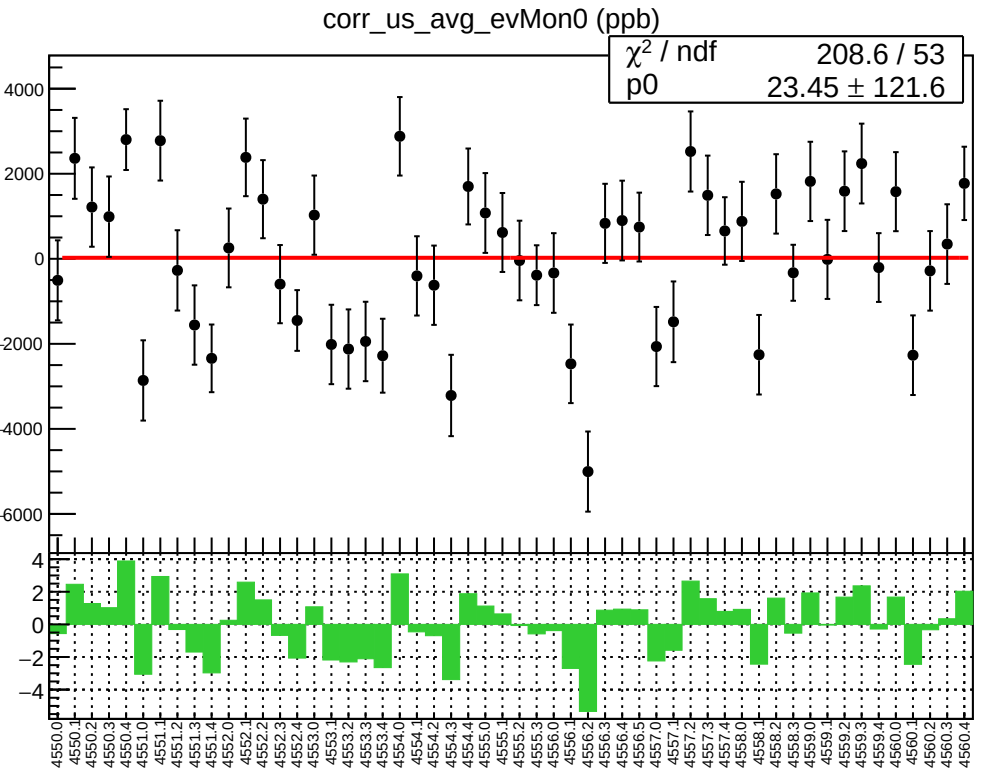

diff_evMon10 (nm)
χ² / ndf 49.97 / 53
p0 0.5397 ± 0.4837
1D pull distribution
Mean 0.007719 ± 0.1309
Std Dev 0.962 ± 0.09257
Underflow 0
Overflow 0
χ² / ndf 8.515 / 6
Constant 9.426 ± 1.722
Mean 0.06684 ± 0.17415
Sigma 1.057 ± 0.135

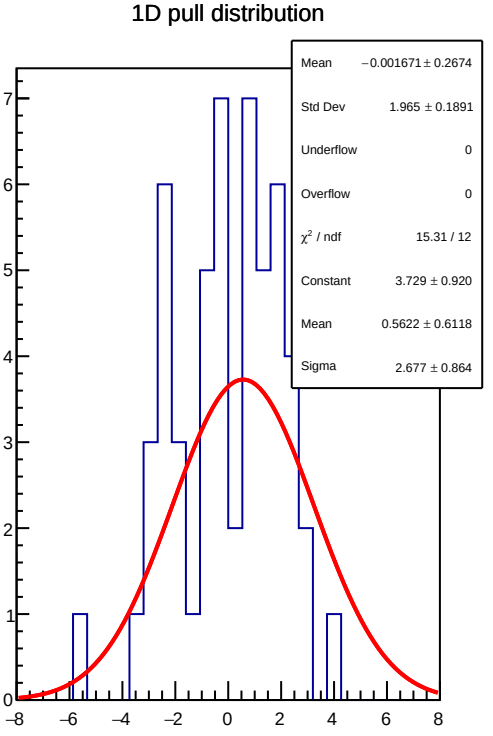

diff_evMon10 RMS (um)
RMS (um)
0.44
0.42
0.4
0.38
0.36
0.34
0.32
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

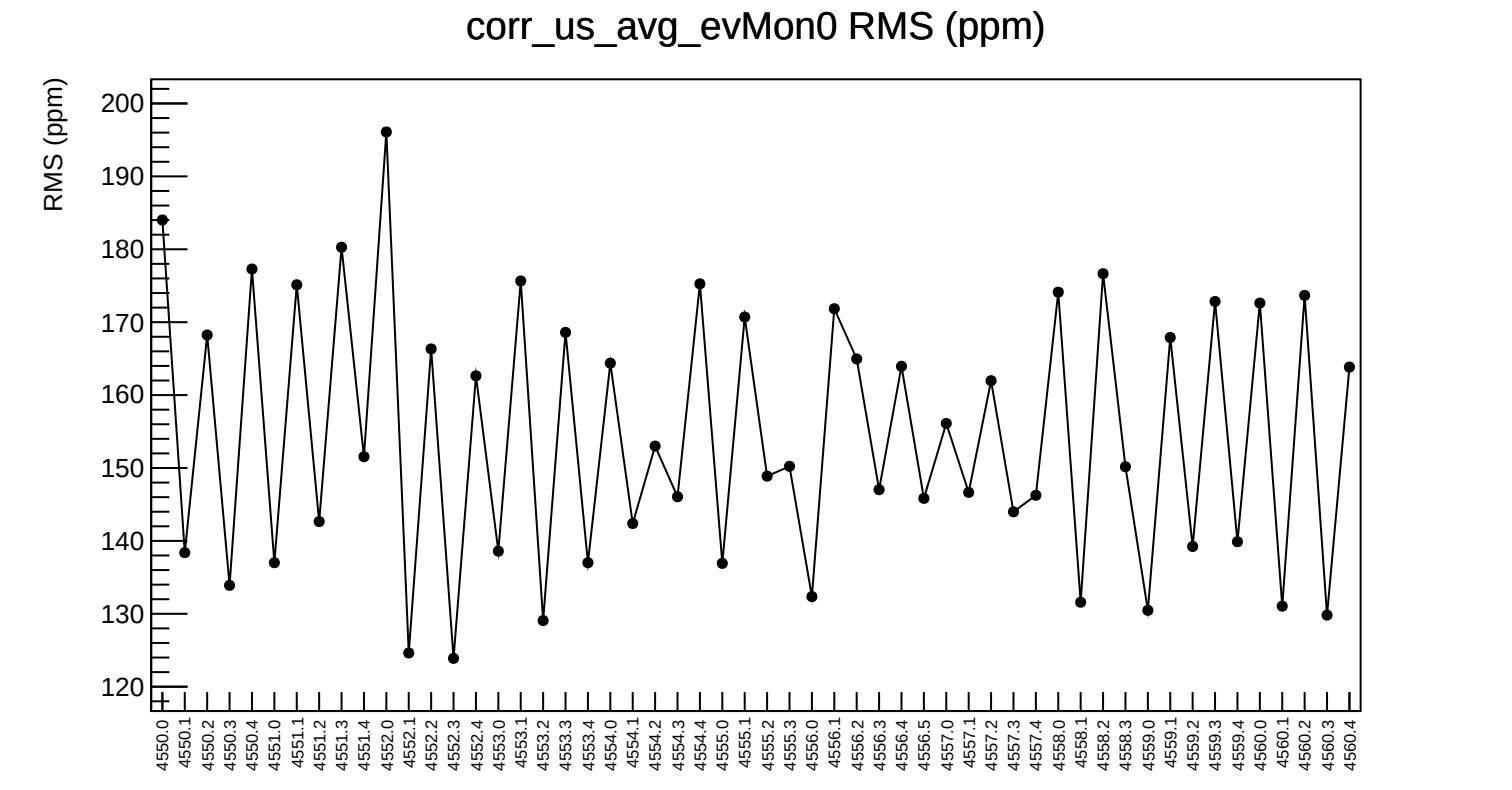

diff_evMon11 (nm)
χ² / ndf 45.59 / 53
p0 −0.0881 ± 0.4093

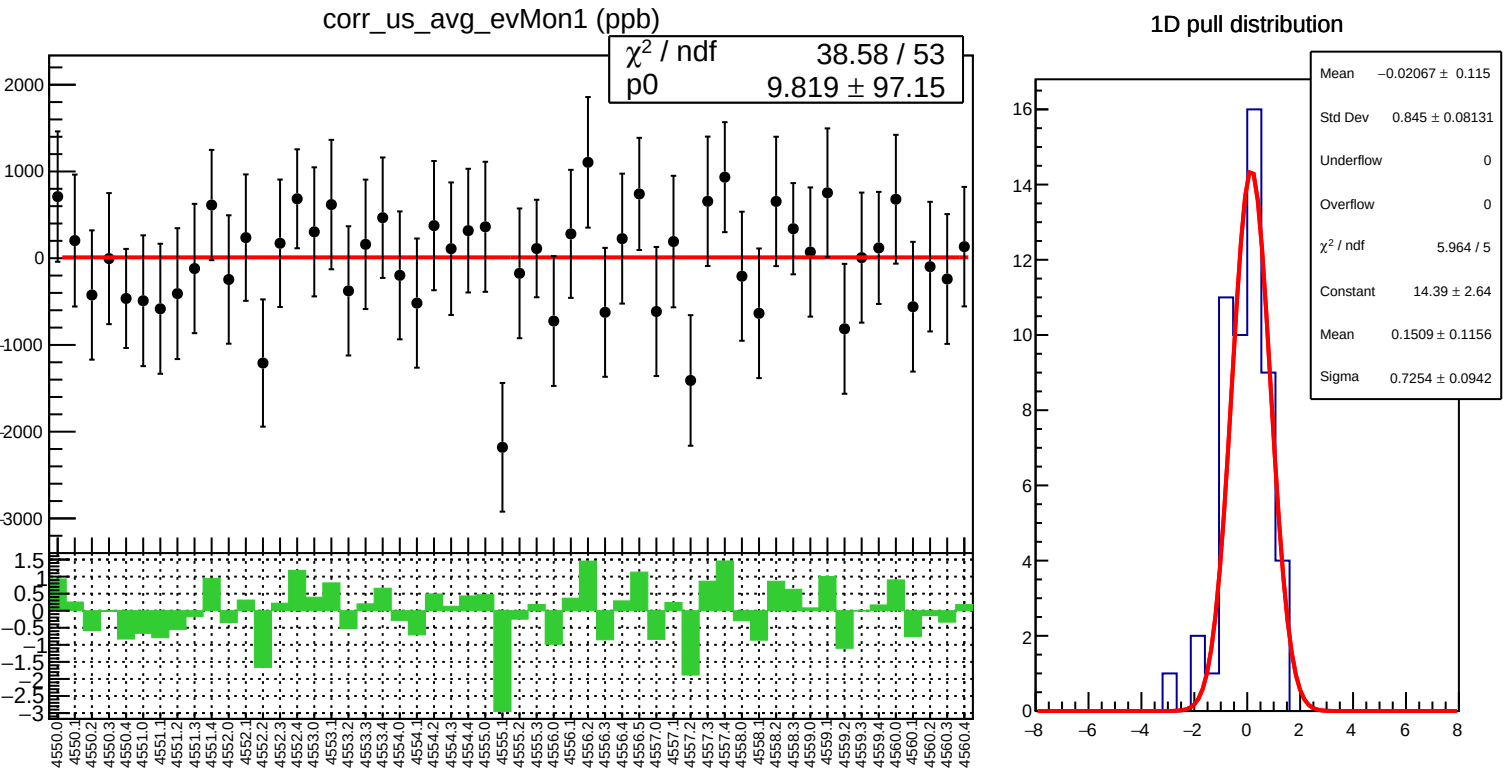

1D pull distribution
Mean −0.005062 ± 0.125
Std Dev 0.9188 ± 0.08841
Underflow 0
Overflow 0
χ² / ndf 2.598 / 6
Constant 11.84 ± 2.32
Mean 0.02471 ± 0.14010
Sigma 0.9357 ± 0.1395

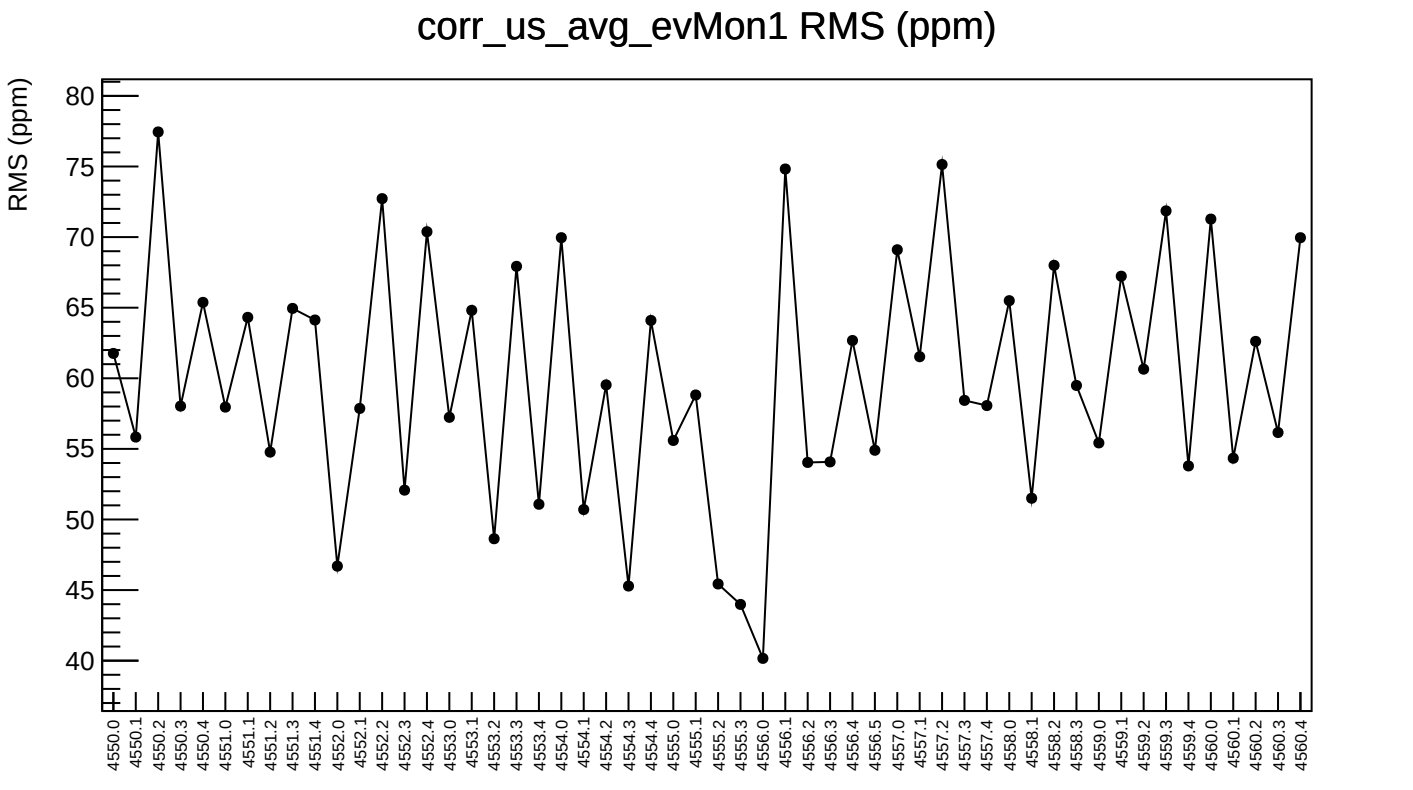

diff_evMon11 RMS (um)
RMS (um)
0.286
0.284
0.282
0.28
0.278
0.276
0.274
0.272
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

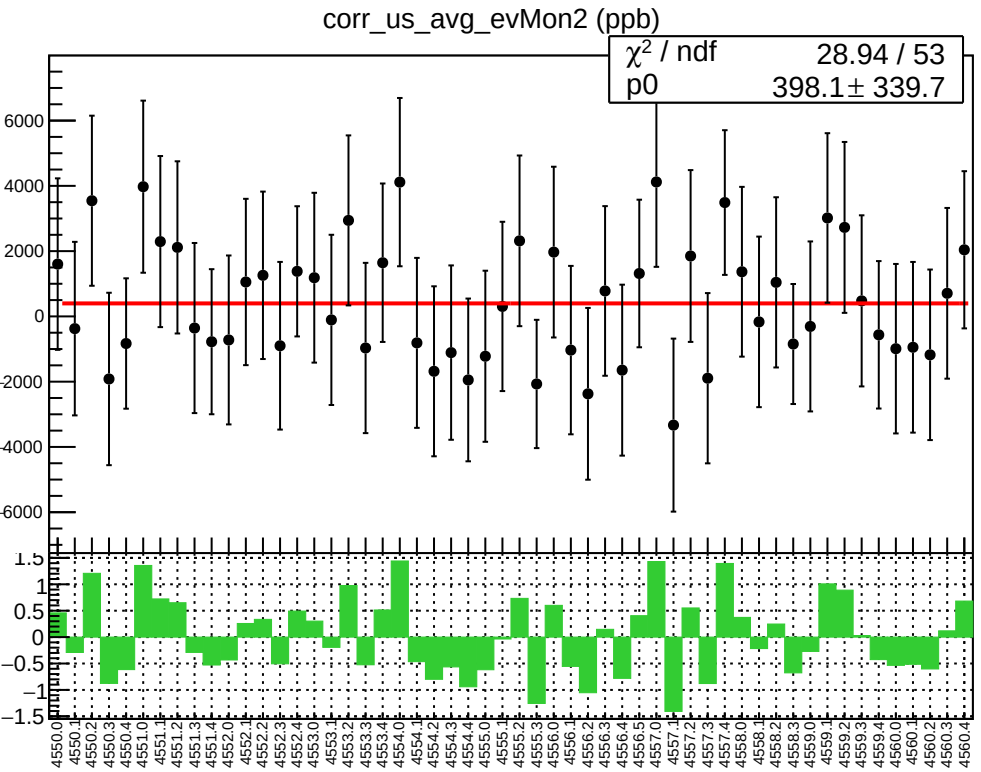

corr_us_avg_evMon0 (ppb)
χ² / ndf 208.6 / 53
p0 23.45 ± 121.6
4000
2000
0
-2000
-4000
-6000
4
2
0
−2
−4
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

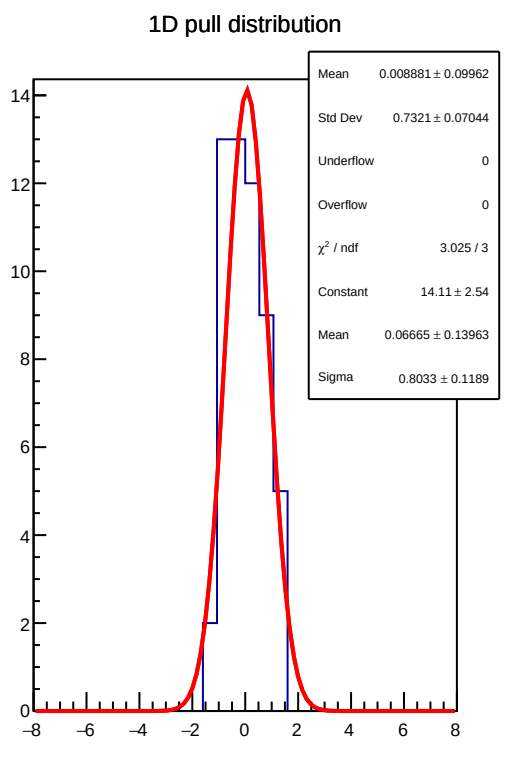

1D pull distribution
Mean −0.001671 ± 0.2674
Std Dev 1.965 ± 0.1891
Underflow 0
Overflow 0
χ² / ndf 15.31 / 12
Constant 3.729 ± 0.920
Mean 0.5622 ± 0.6118
Sigma 2.677 ± 0.864
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

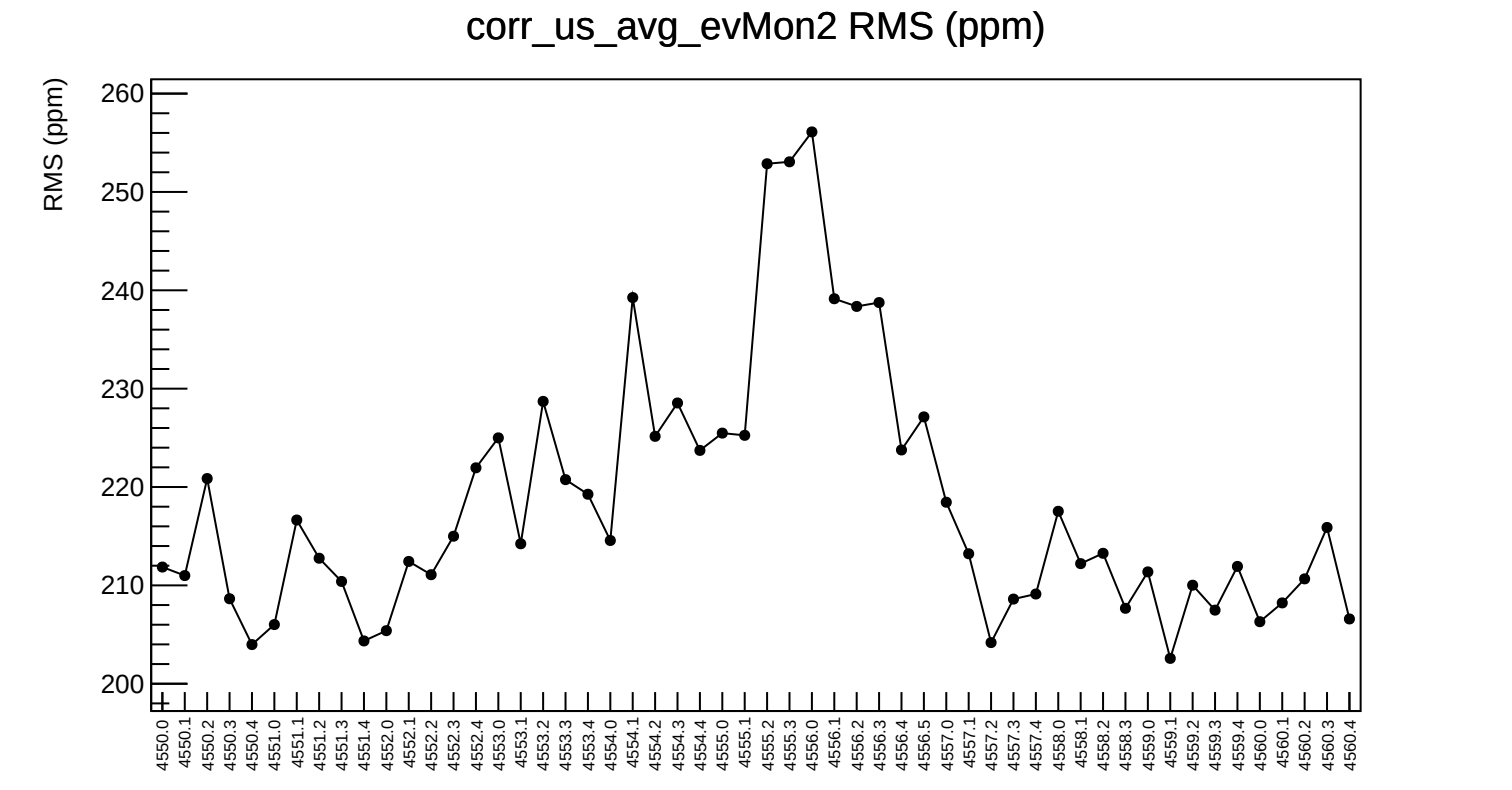

corr_us_avg_evMon0 RMS (ppm)
RMS (ppm)
200
190
180
170
160
150
140
130
120
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

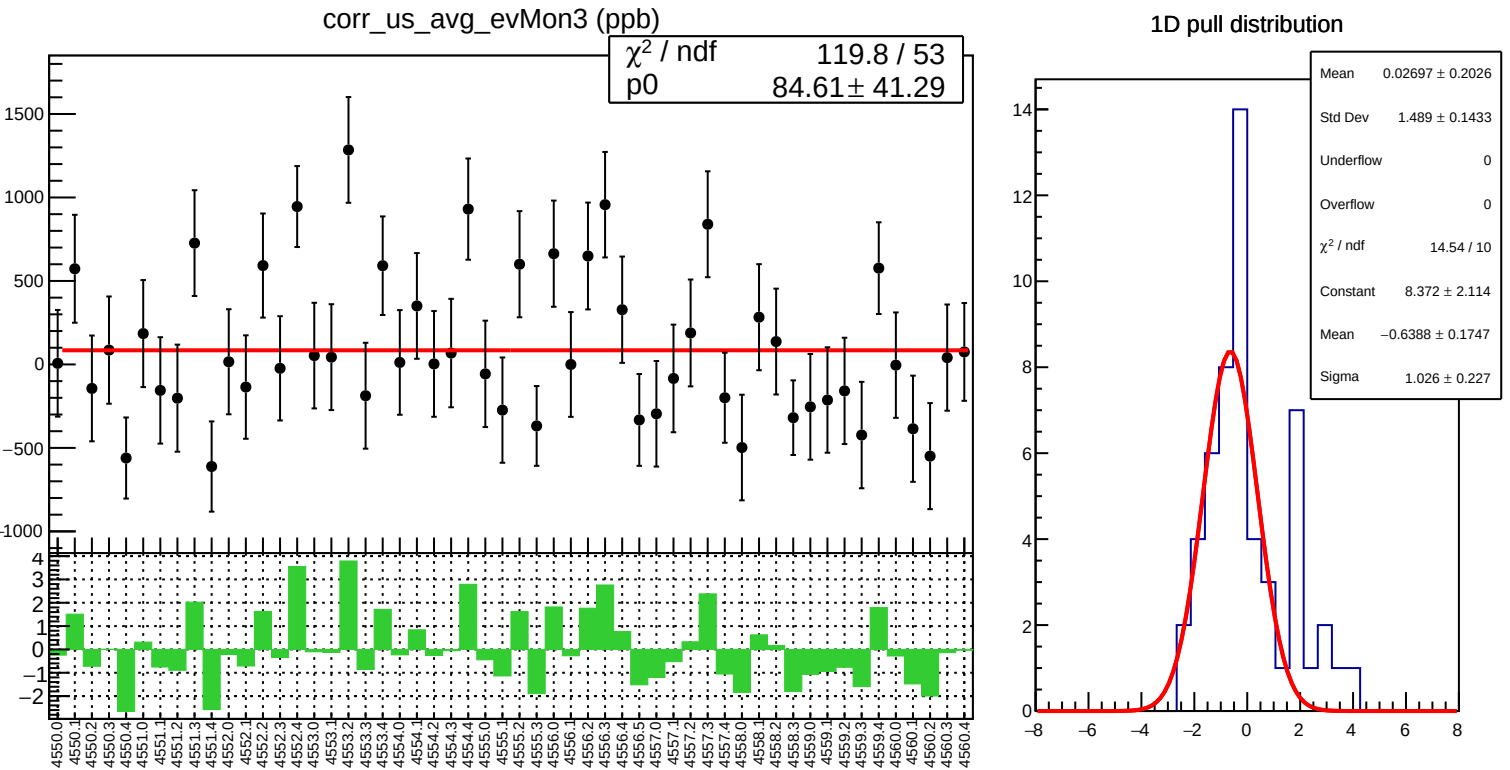

corr_us_avg_evMon1 (ppb)
χ² / ndf 38.58 / 53
p0 9.819 ± 97.15
2000
1000
0
-1000
-2000
-3000
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4
1D pull distribution
Mean −0.02067 ± 0.115
Std Dev 0.845 ± 0.08131
Underflow 0
Overflow 0
χ² / ndf 5.964 / 5
Constant 14.39 ± 2.64
Mean 0.1509 ± 0.1156
Sigma 0.7254 ± 0.0942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

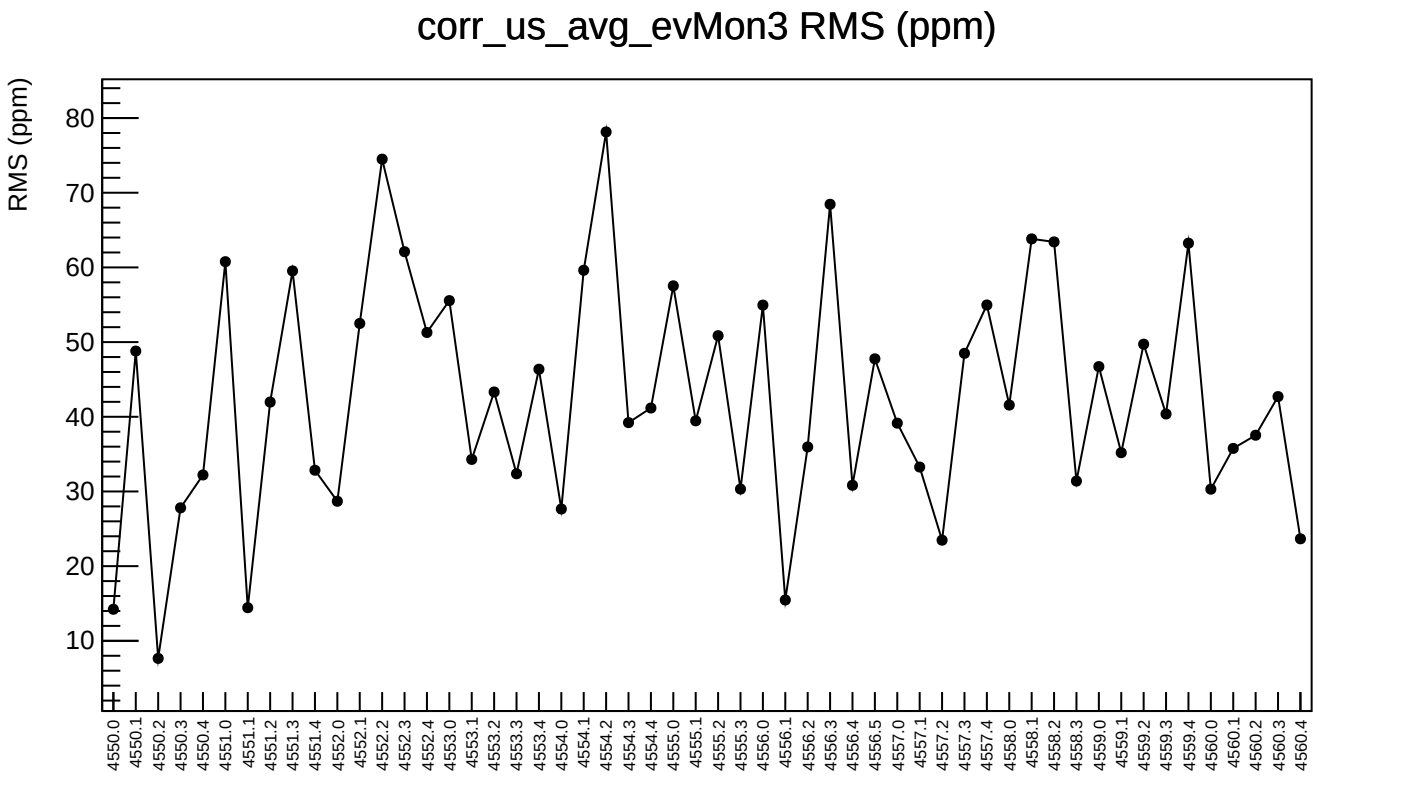

corr_us_avg_evMon1 RMS (ppm)
RMS (ppm)
80
75
70
65
60
55
50
45
40
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4


corr_us_avg_evMon2 (ppb)
χ² / ndf 28.94 / 53
p0 398.1 ± 339.7


1D pull distribution
Mean 0.008881 ± 0.09962
Std Dev 0.7321 ± 0.07044
Underflow 0
Overflow 0
χ² / ndf 3.025 / 3
Constant 14.11 ± 2.54
Mean 0.06665 ± 0.13963
Sigma 0.8033 ± 0.1189


corr_us_avg_evMon2 RMS (ppm)
RMS (ppm)
260
250
240
230
220
210
200
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4


corr_us_avg_evMon3 (ppb)
χ² / ndf 119.8 / 53
p0 84.61 ± 41.29
1D pull distribution
Mean 0.02697 ± 0.2026
Std Dev 1.489 ± 0.1433
Underflow 0
Overflow 0
χ² / ndf 14.54 / 10
Constant 8.372 ± 2.114
Mean −0.6388 ± 0.1747
Sigma 1.026 ± 0.227


corr_us_avg_evMon3 RMS (ppm)
RMS (ppm)
80
70
60
50
40
30
20
10
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
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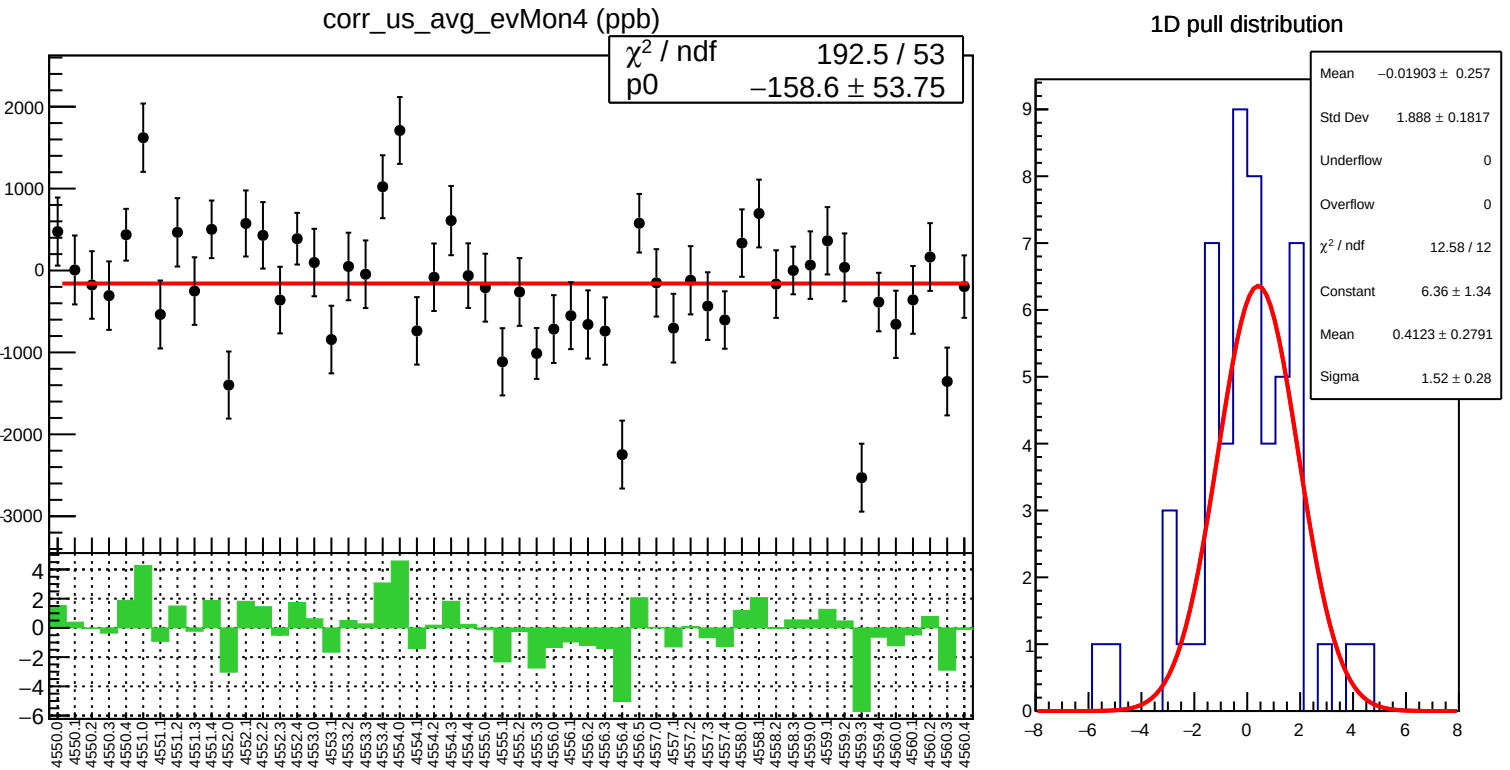
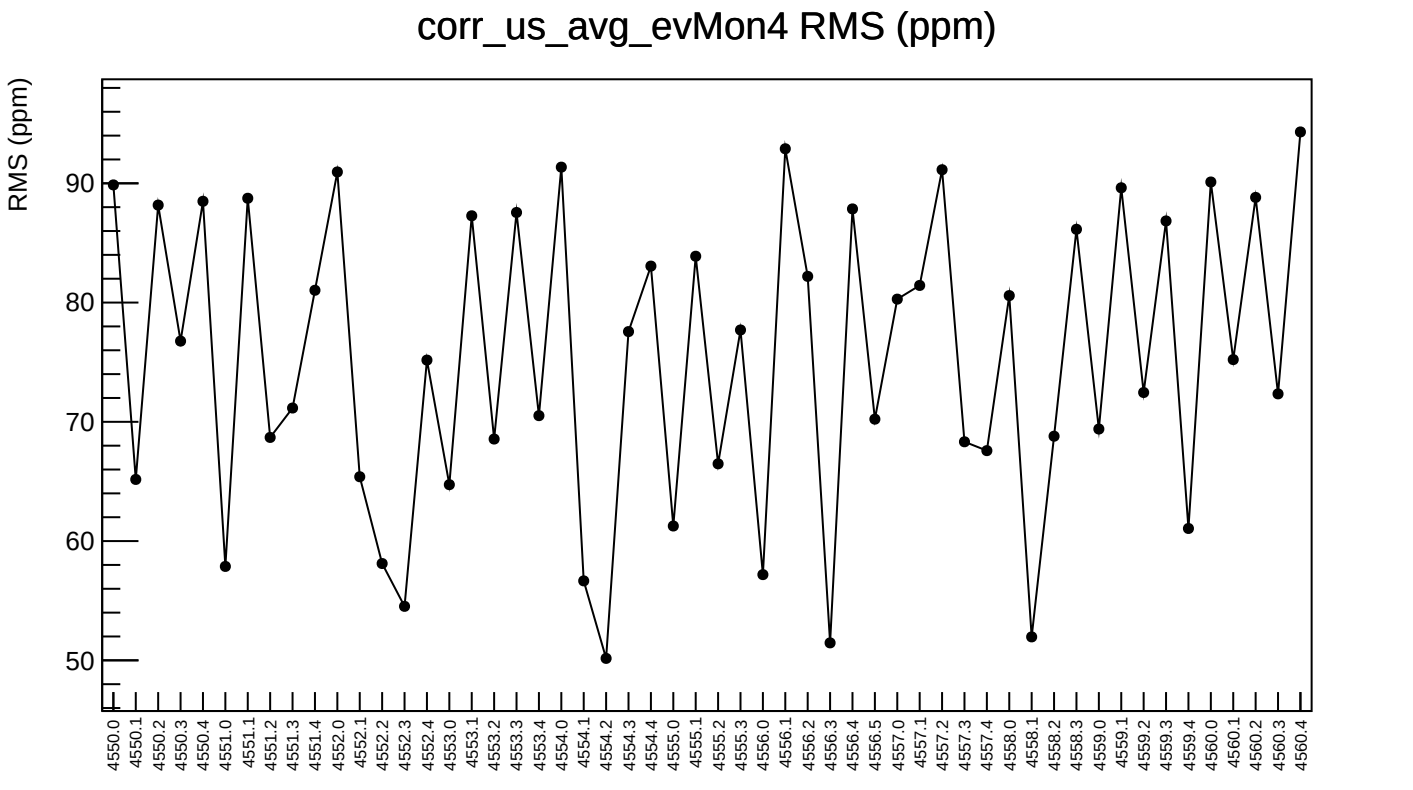
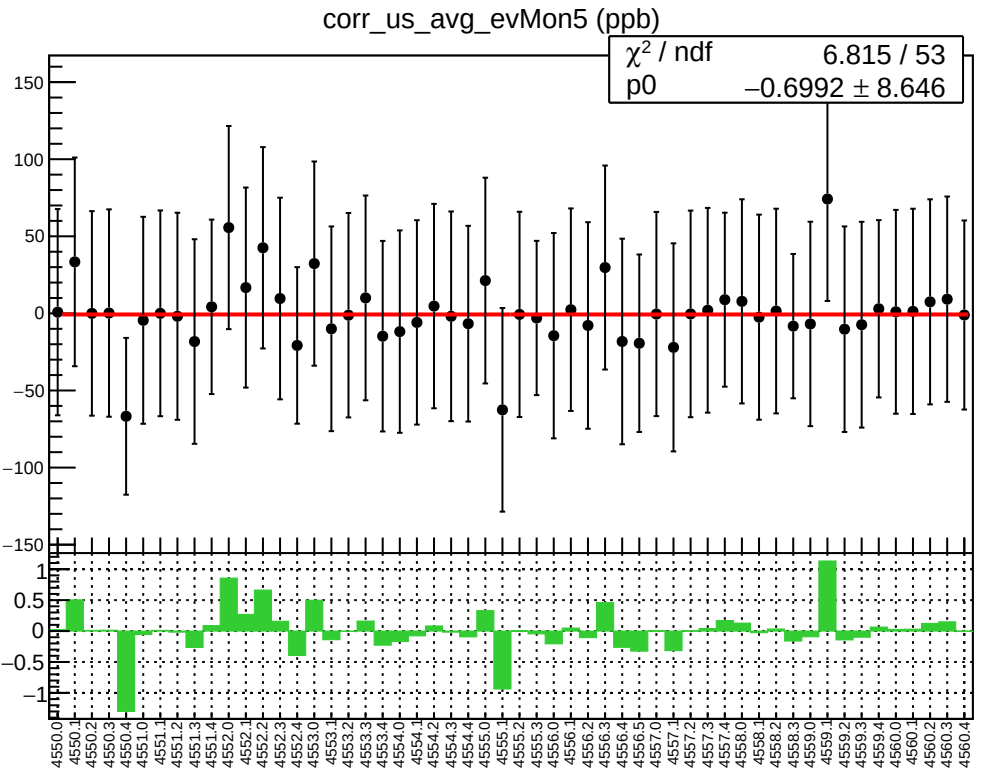
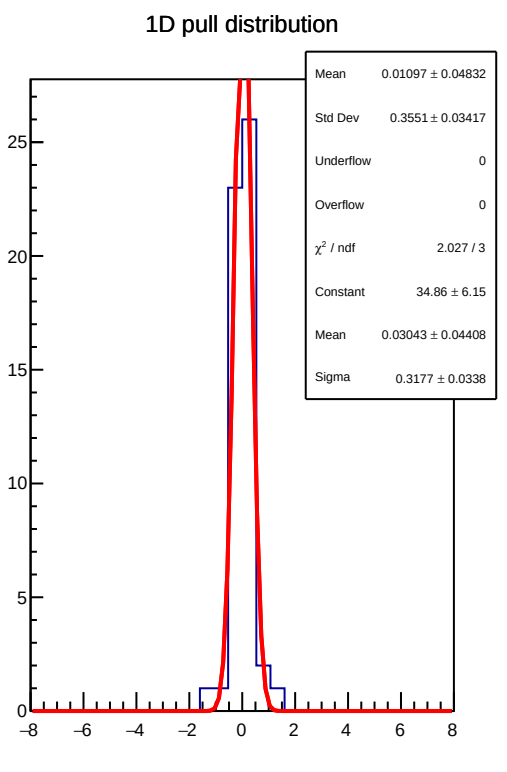
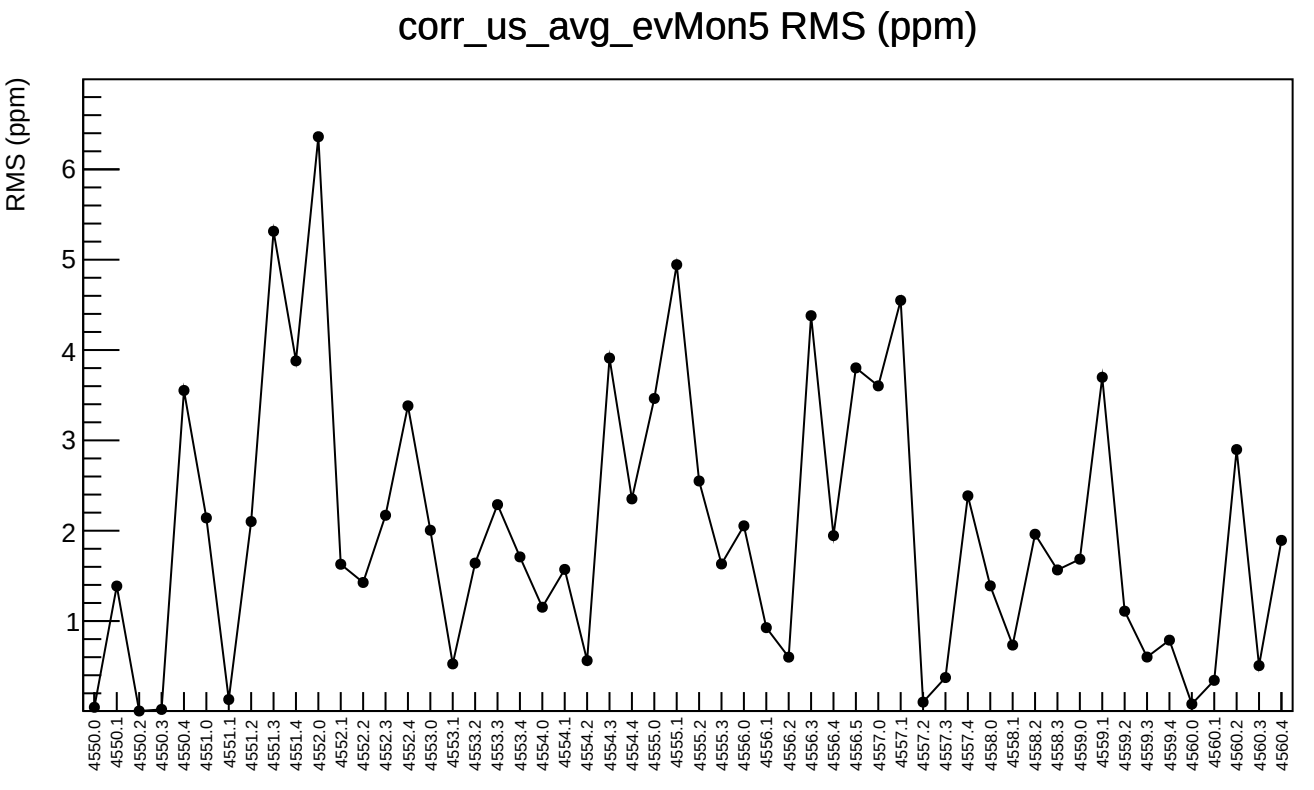
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

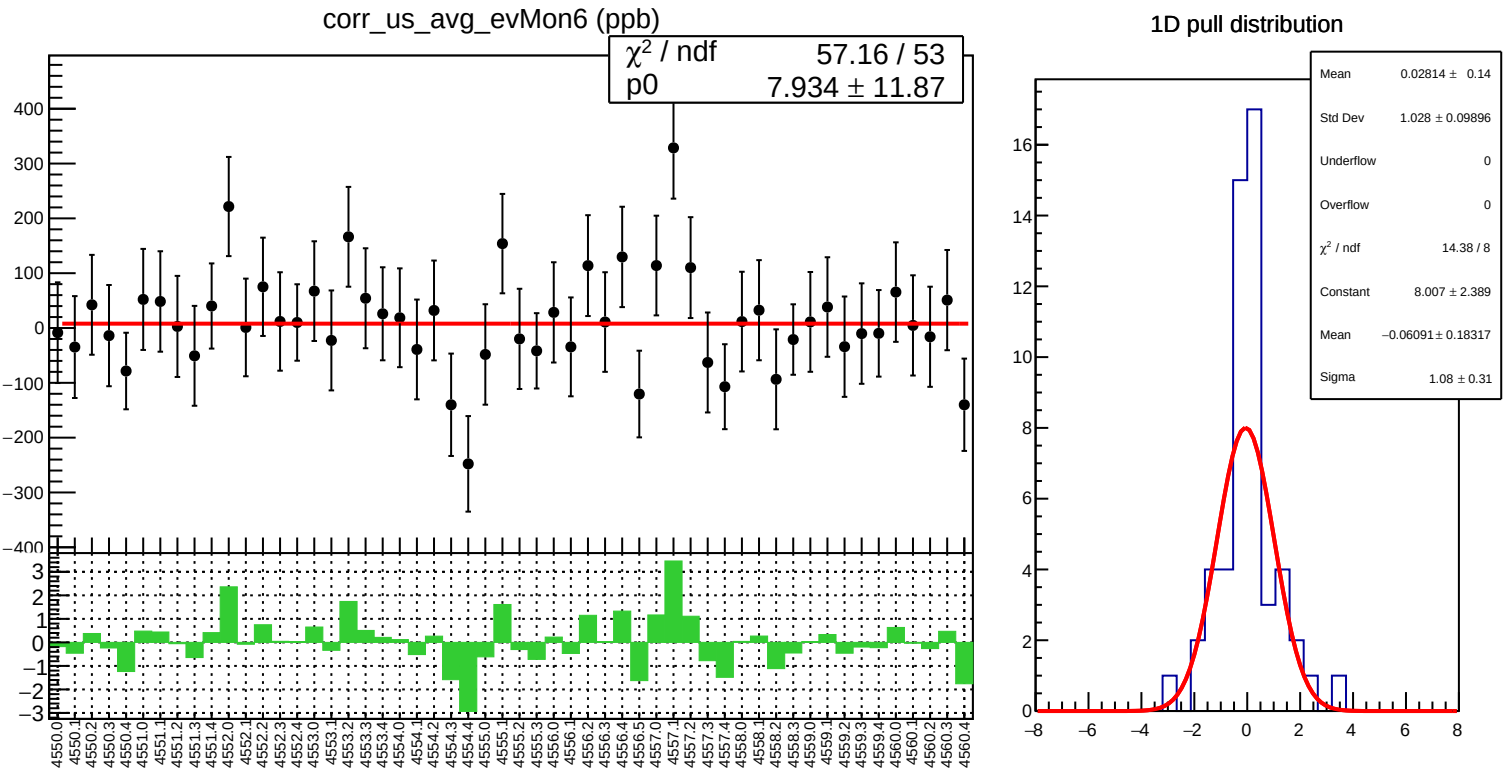

corr_us_avg_evMon4 (ppb)
χ² / ndf 192.5 / 53
p0 −158.6 ± 53.75
1D pull distribution
Mean −0.01903 ± 0.257
Std Dev 1.888 ± 0.1817
Underflow 0
Overflow 0
χ² / ndf 12.58 / 12
Constant 6.36 ± 1.34
Mean 0.4123 ± 0.2791
Sigma 1.52 ± 0.28

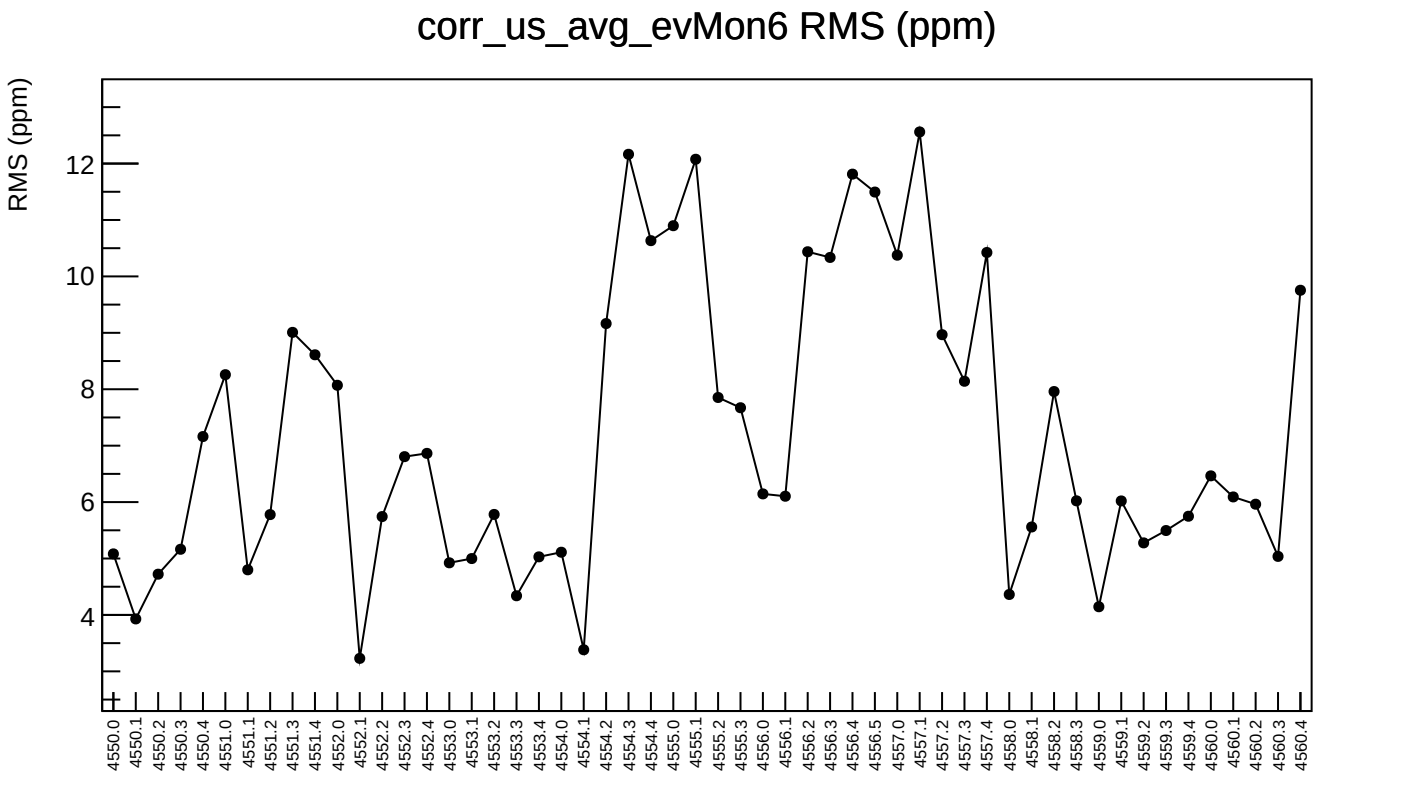

corr_us_avg_evMon4 RMS (ppm)
RMS (ppm)
90
80
70
60
50
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

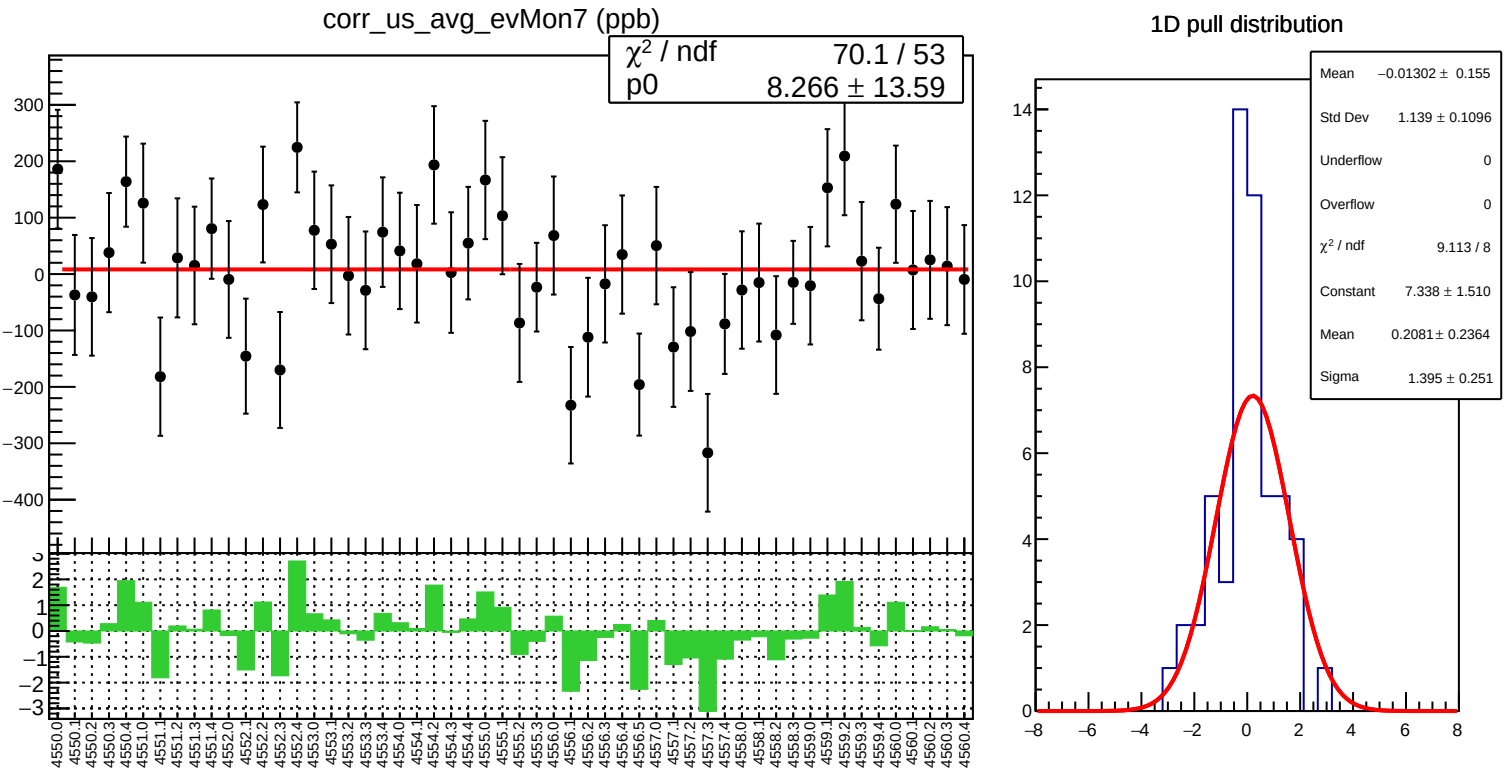

corr_us_avg_evMon5 (ppb)
χ² / ndf 6.815 / 53
p0 −0.6992 ± 8.646

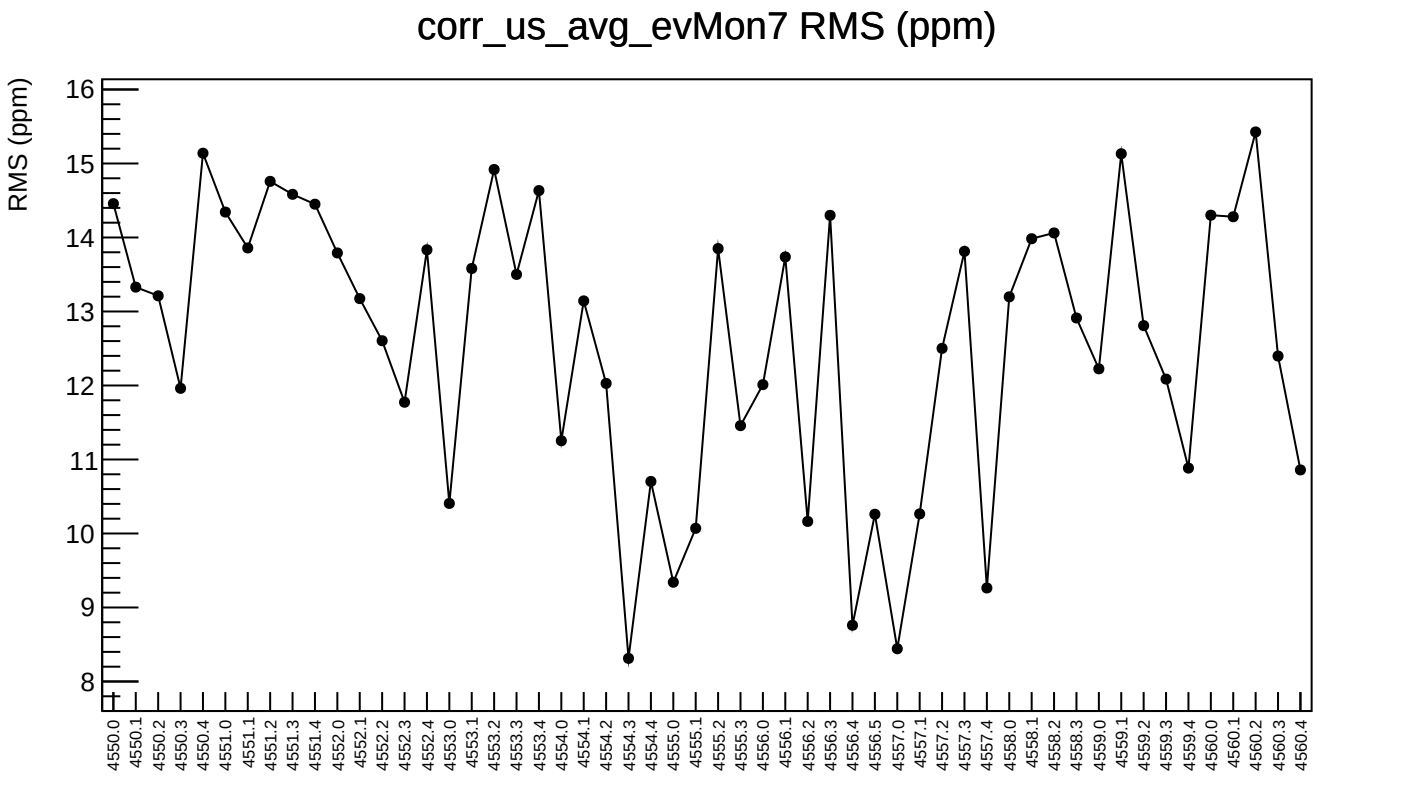

1D pull distribution
Mean 0.01097 ± 0.04832
Std Dev 0.3551 ± 0.03417
Underflow 0
Overflow 0
χ² / ndf 2.027 / 3
Constant 34.86 ± 6.15
Mean 0.03043 ± 0.04408
Sigma 0.3177 ± 0.0338

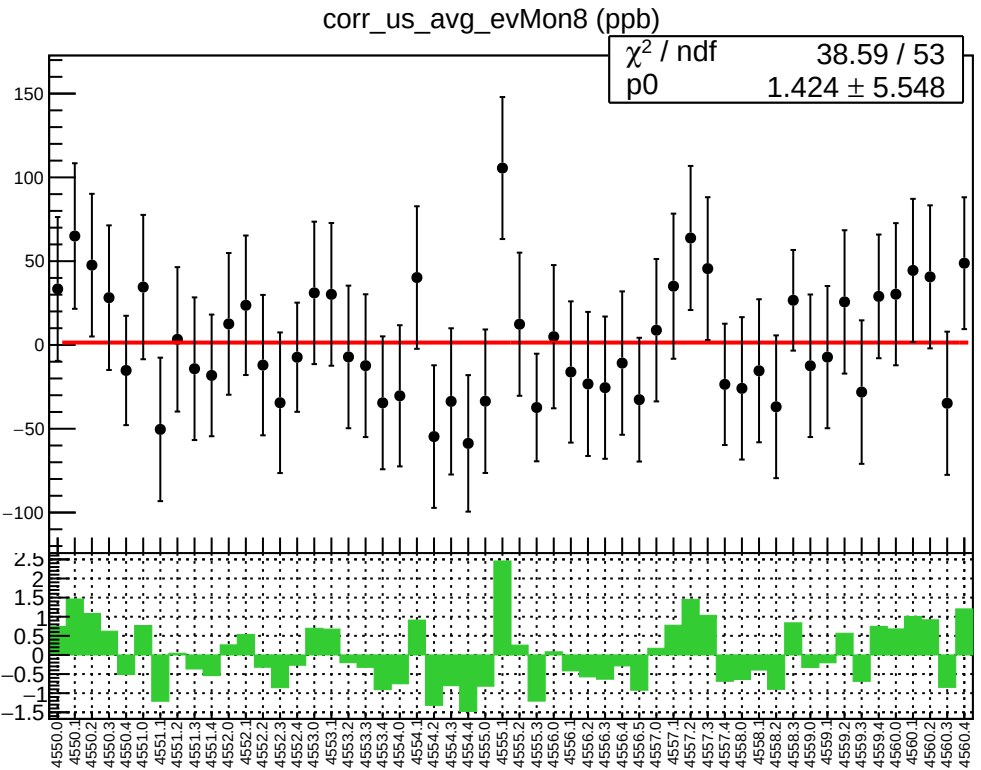

corr_us_avg_evMon5 RMS (ppm)
RMS (ppm)
1
2
3
4
5
6
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

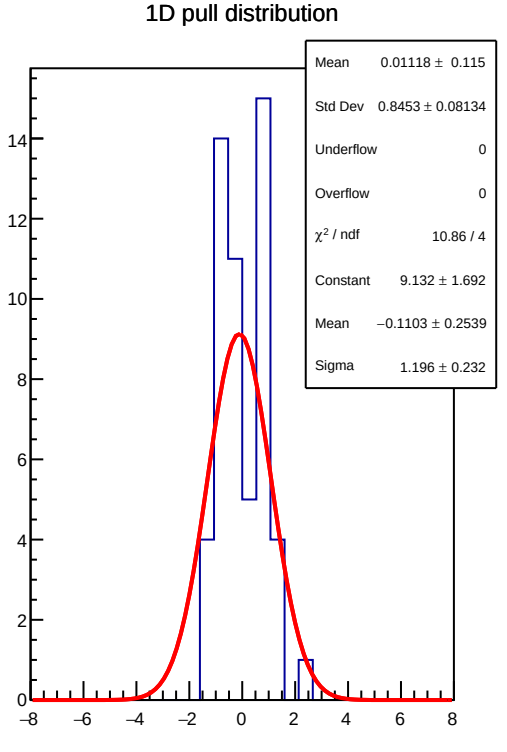

corr_us_avg_evMon6 (ppb)
χ² / ndf 57.16 / 53
p0 7.934 ± 11.87
1D pull distribution
Mean 0.02814 ± 0.14
Std Dev 1.028 ± 0.09896
Underflow 0
Overflow 0
χ² / ndf 14.38 / 8
Constant 8.007 ± 2.389
Mean −0.06091 ± 0.18317
Sigma 1.08 ± 0.31

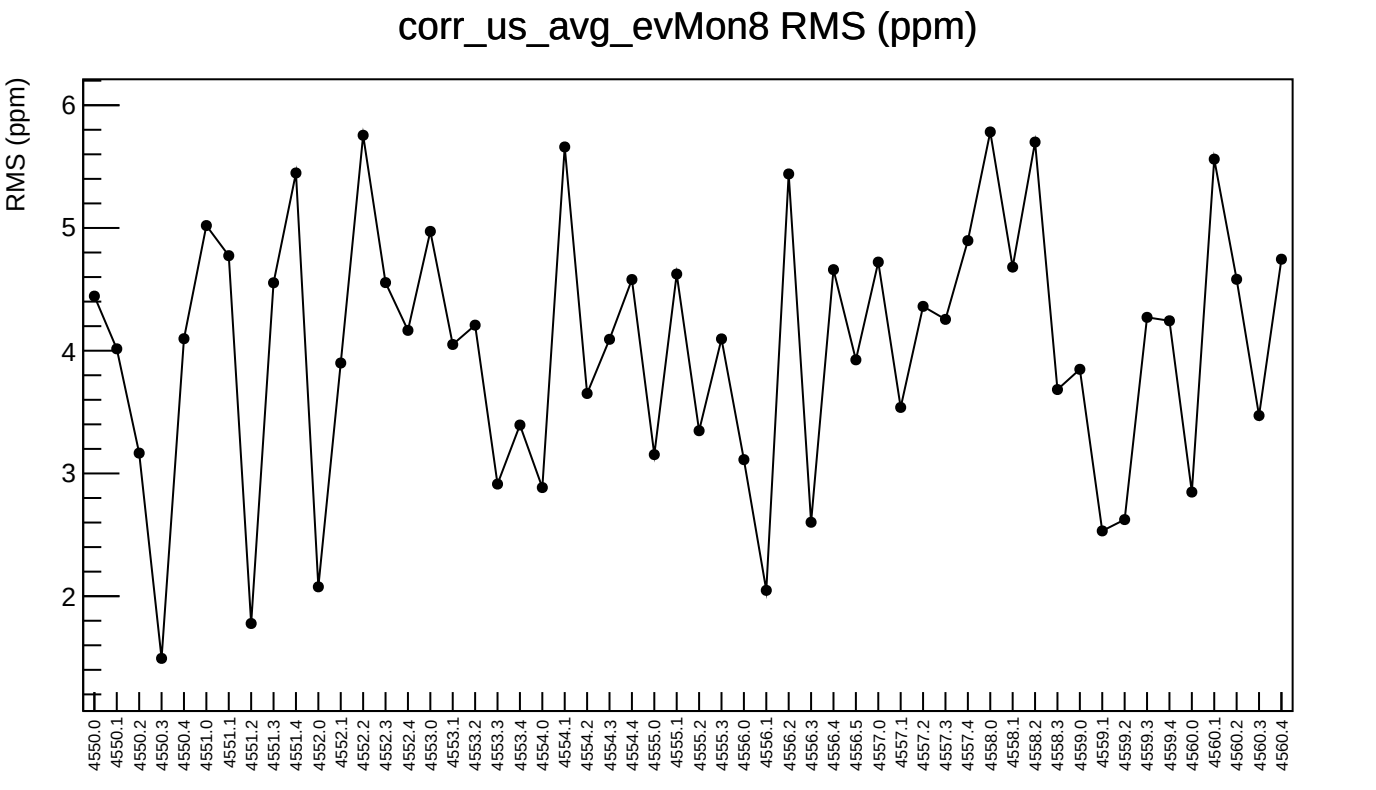

corr_us_avg_evMon6 RMS (ppm)
RMS (ppm)
12
10
8
6
4
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

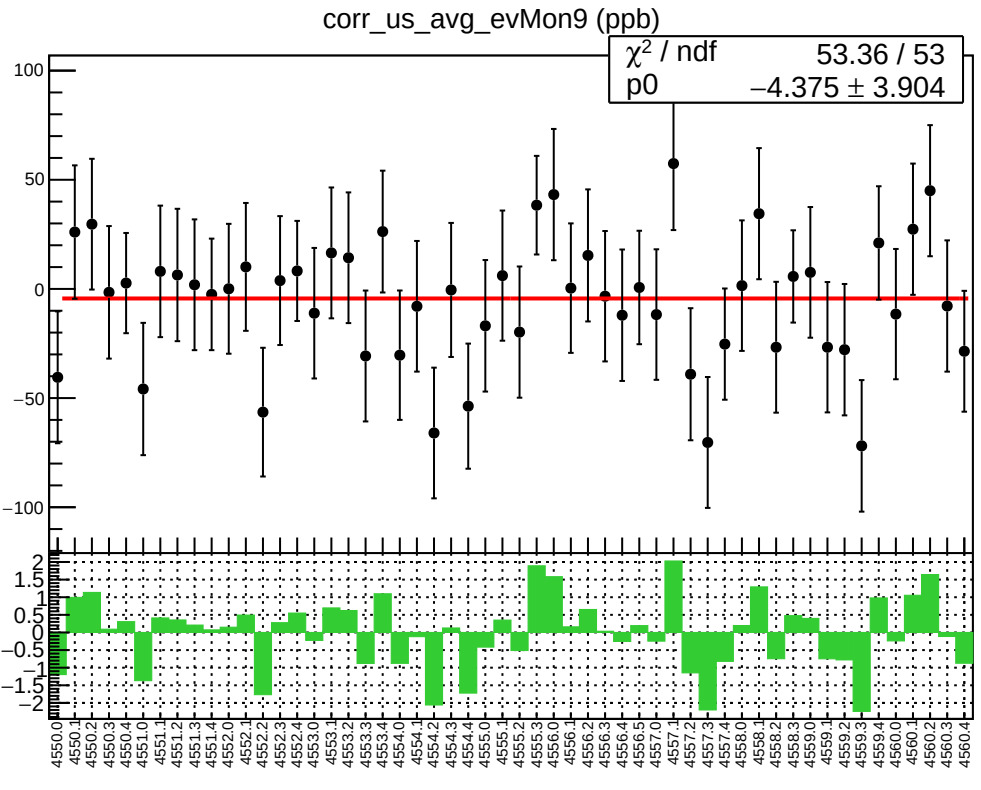

corr_us_avg_evMon7 (ppb)
χ² / ndf 70.1 / 53
p0 8.266 ± 13.59
1D pull distribution
Mean −0.01302 ± 0.155
Std Dev 1.139 ± 0.1096
Underflow 0
Overflow 0
χ² / ndf 9.113 / 8
Constant 7.338 ± 1.510
Mean 0.2081 ± 0.2364
Sigma 1.395 ± 0.251

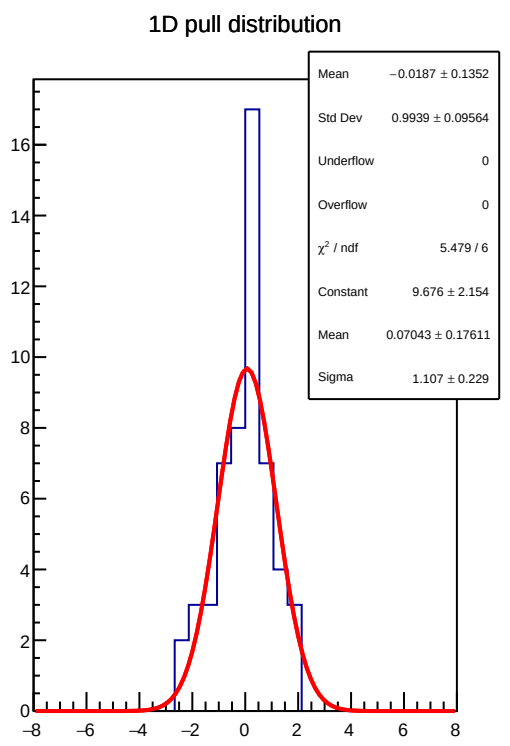

corr_us_avg_evMon7 RMS (ppm)
RMS (ppm)
16
15
14
13
12
11
10
9
8
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

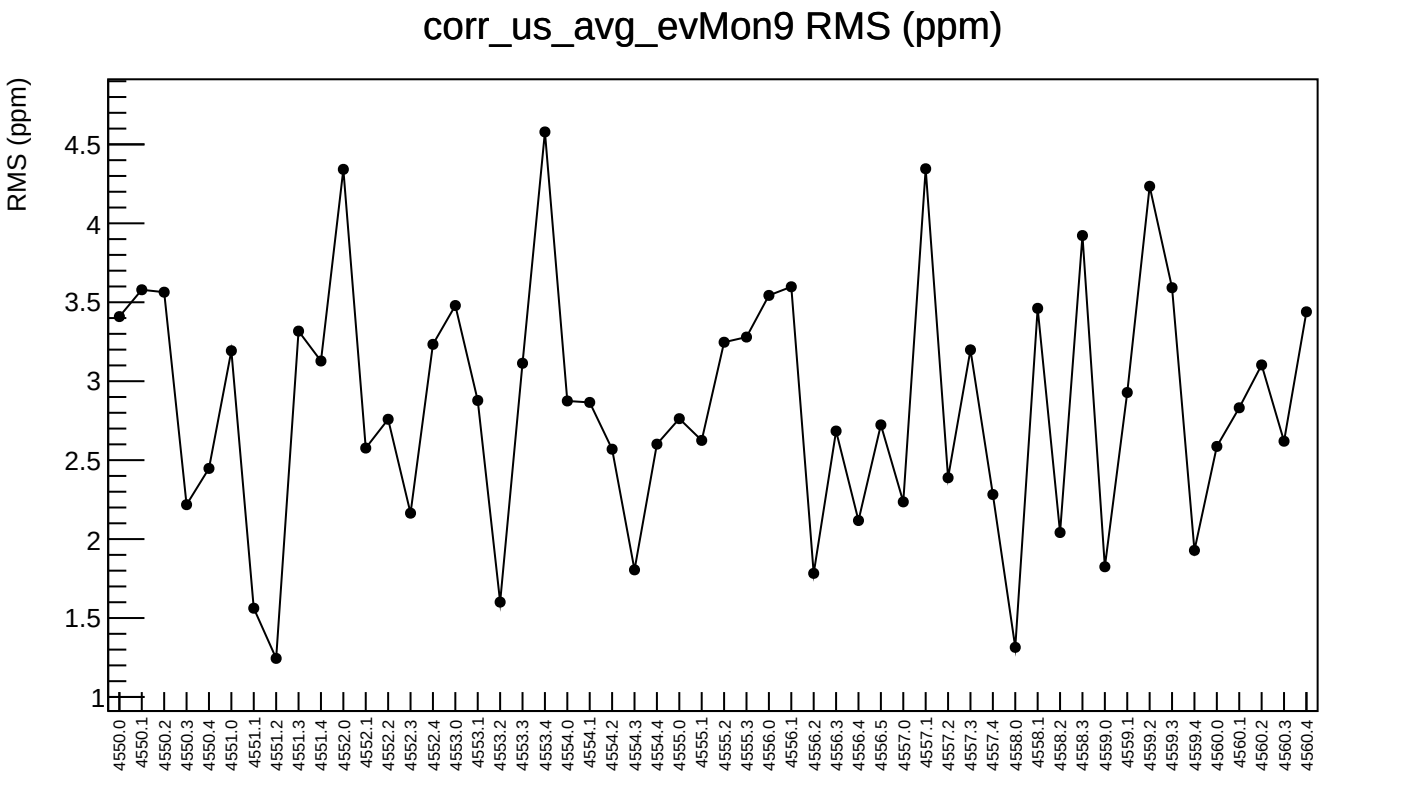

corr_us_avg_evMon8 (ppb)
χ² / ndf 38.59 / 53
p0 1.424 ± 5.548
150
100
50
0
−50
−100
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4


1D pull distribution
Mean 0.01118 ± 0.115
Std Dev 0.8453 ± 0.08134
Underflow 0
Overflow 0
χ² / ndf 10.86 / 4
Constant 9.132 ± 1.692
Mean −0.1103 ± 0.2539
Sigma 1.196 ± 0.232
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


corr_us_avg_evMon8 RMS (ppm)
RMS (ppm)
6
5
4
3
2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4


corr_us_avg_evMon9 (ppb)
χ² / ndf 53.36 / 53
p0 −4.375 ± 3.904


1D pull distribution
Mean −0.0187 ± 0.1352
Std Dev 0.9939 ± 0.09564
Underflow 0
Overflow 0
χ² / ndf 5.479 / 6
Constant 9.676 ± 2.154
Mean 0.07043 ± 0.17611
Sigma 1.107 ± 0.229


corr_us_avg_evMon9 RMS (ppm)
RMS (ppm)
4.5
4
3.5
3
2.5
2
1.5
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
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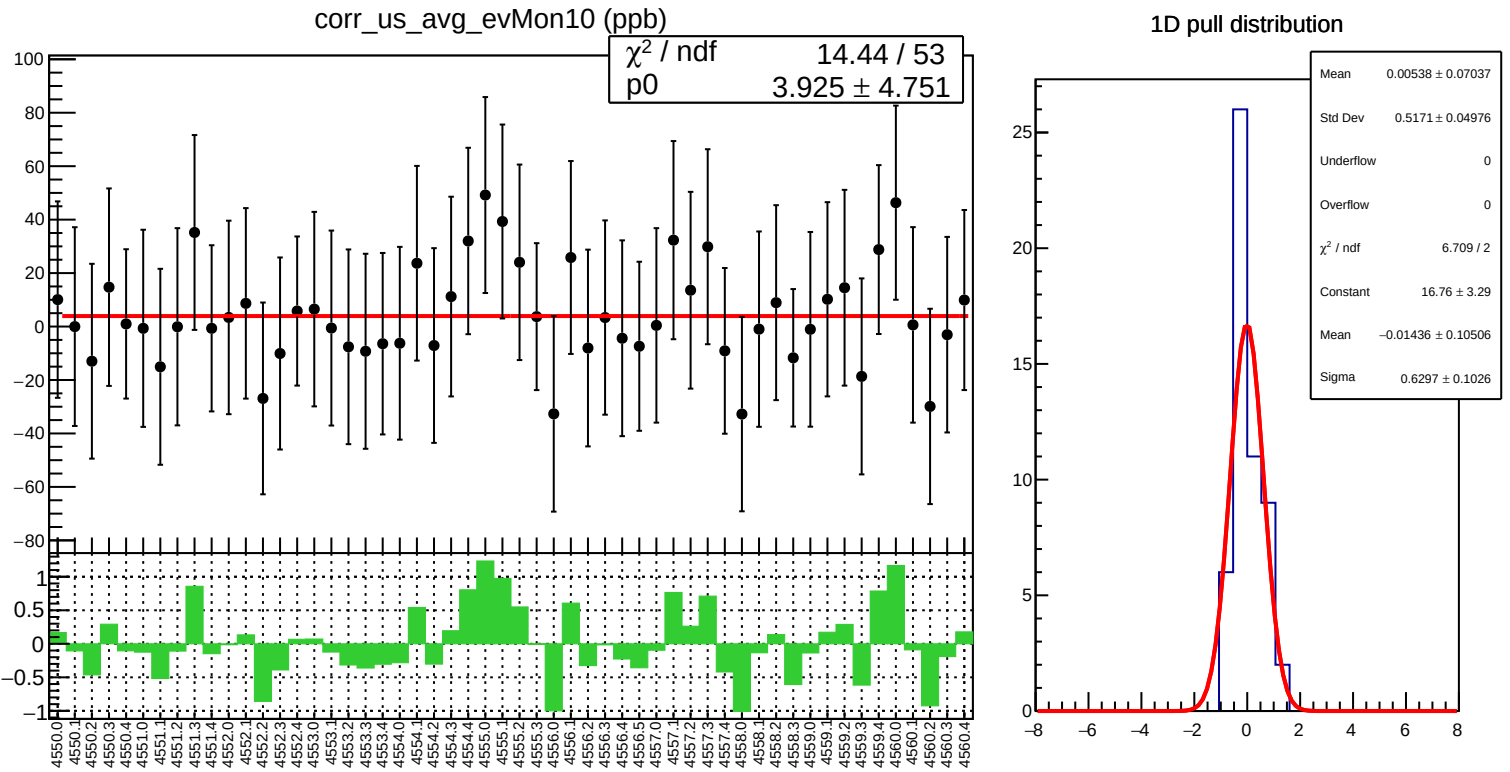
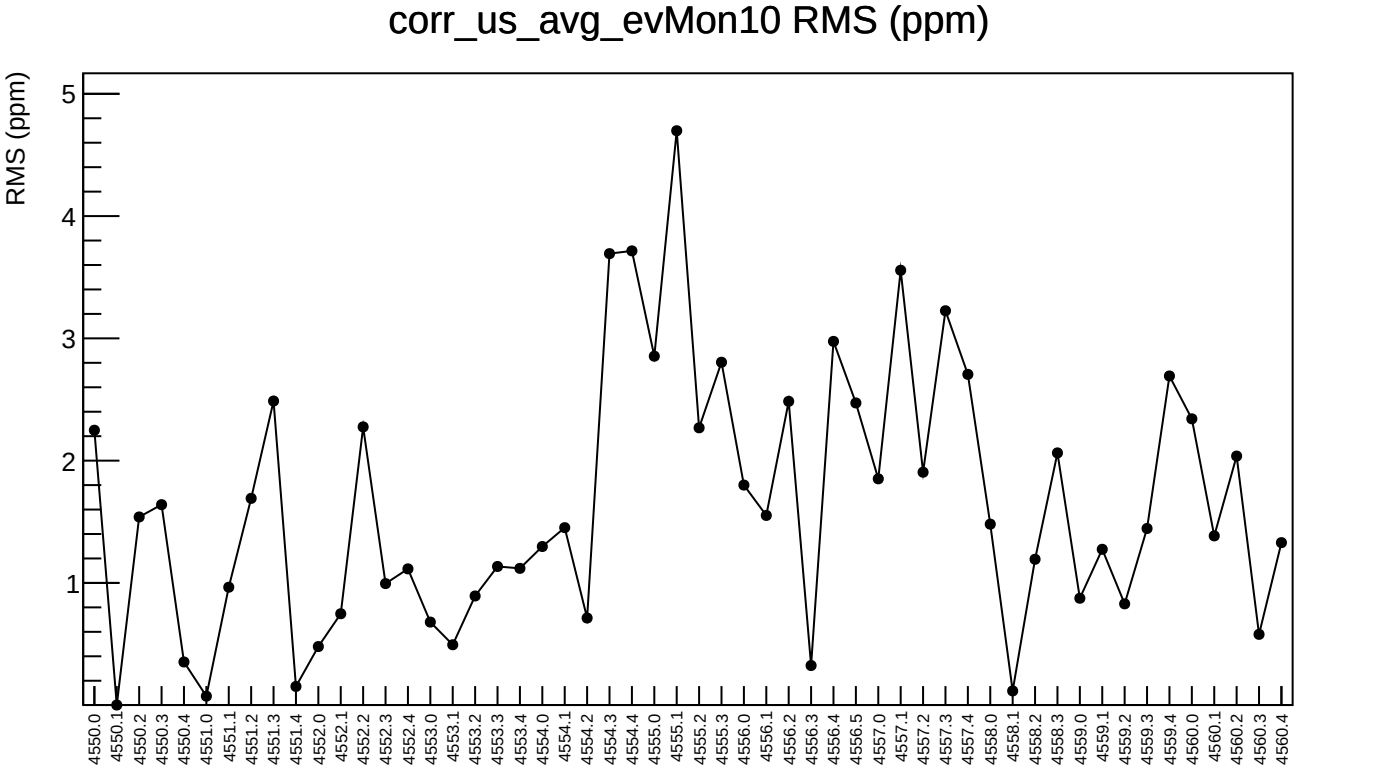
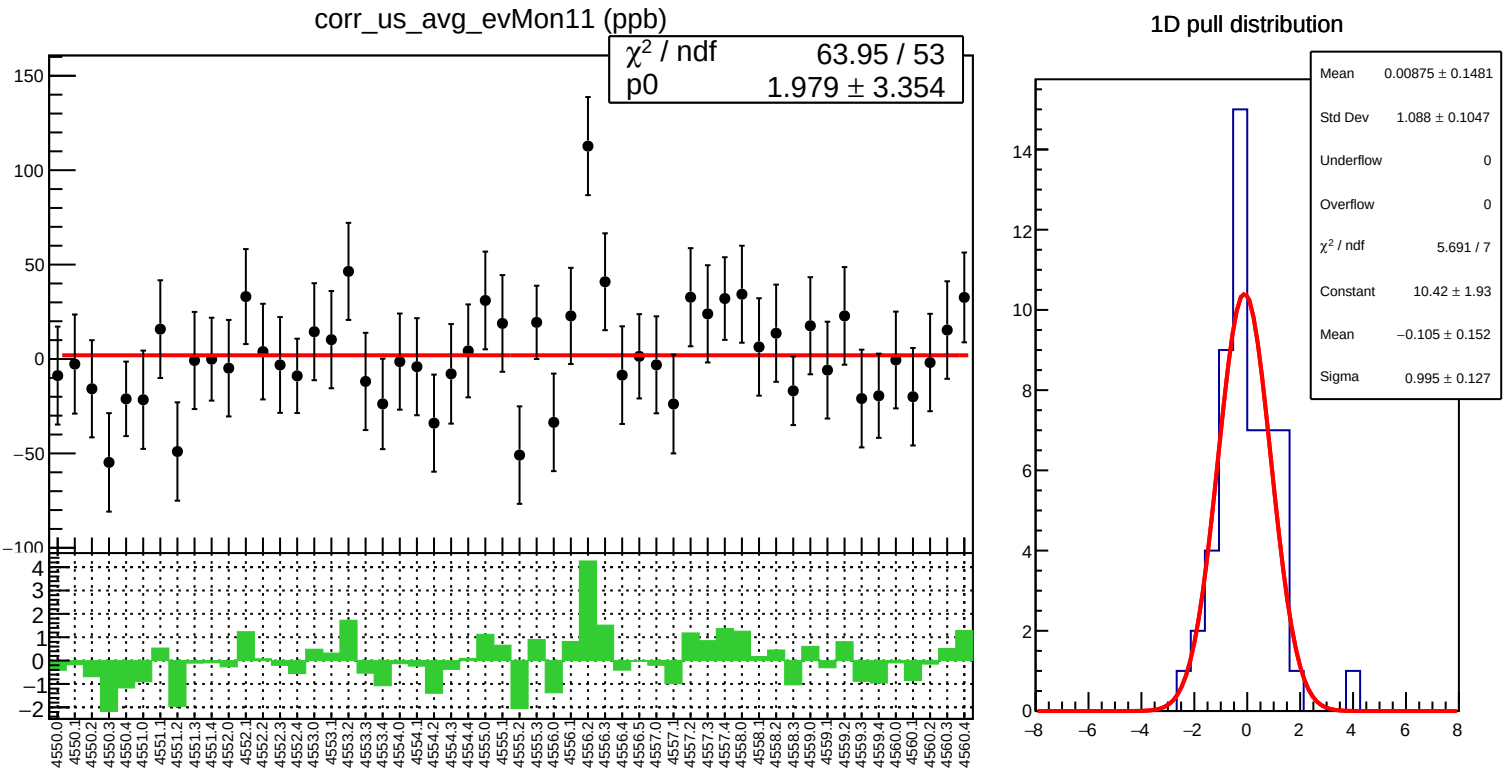
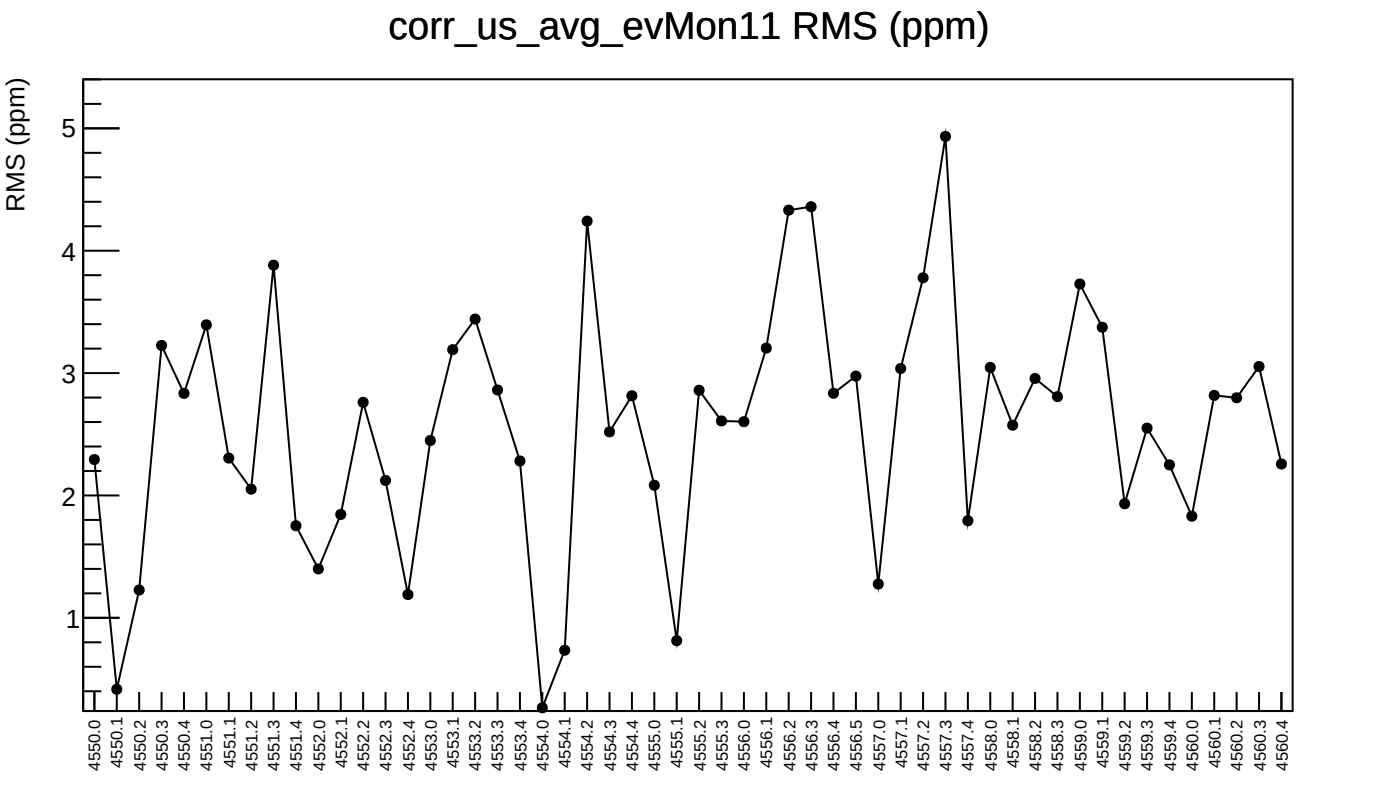
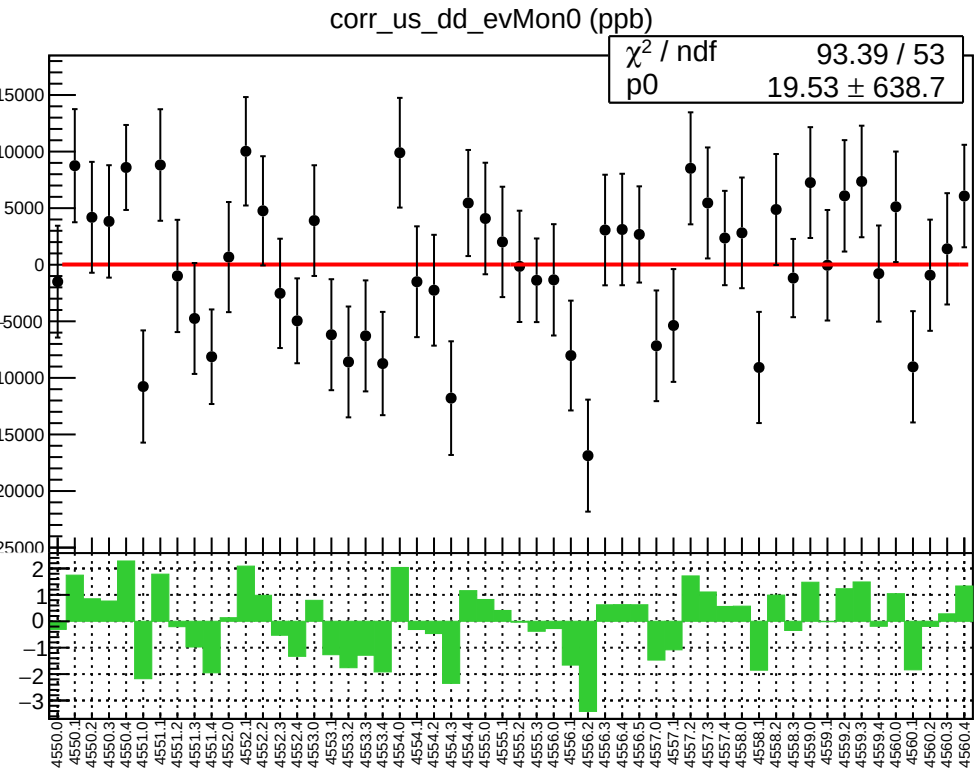
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

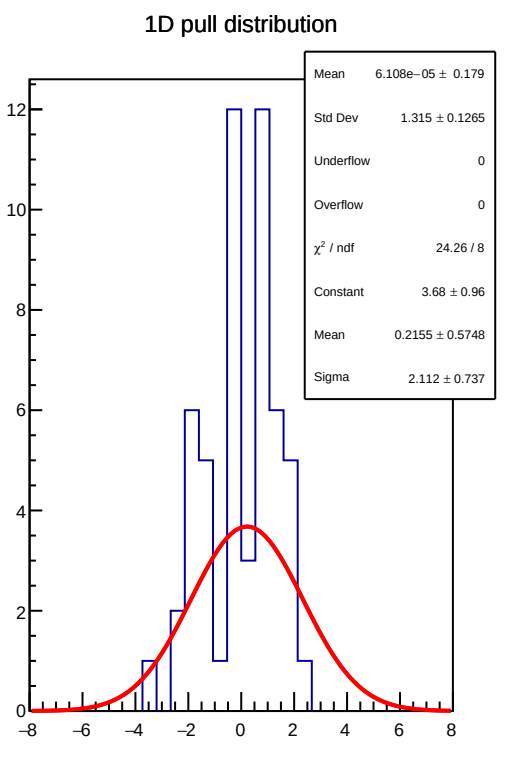

corr_us_avg_evMon10 (ppb)
χ² / ndf 14.44 / 53
p0 3.925 ± 4.751
1D pull distribution
Mean 0.00538 ± 0.07037
Std Dev 0.5171 ± 0.04976
Underflow 0
Overflow 0
χ² / ndf 6.709 / 2
Constant 16.76 ± 3.29
Mean −0.01436 ± 0.10506
Sigma 0.6297 ± 0.1026

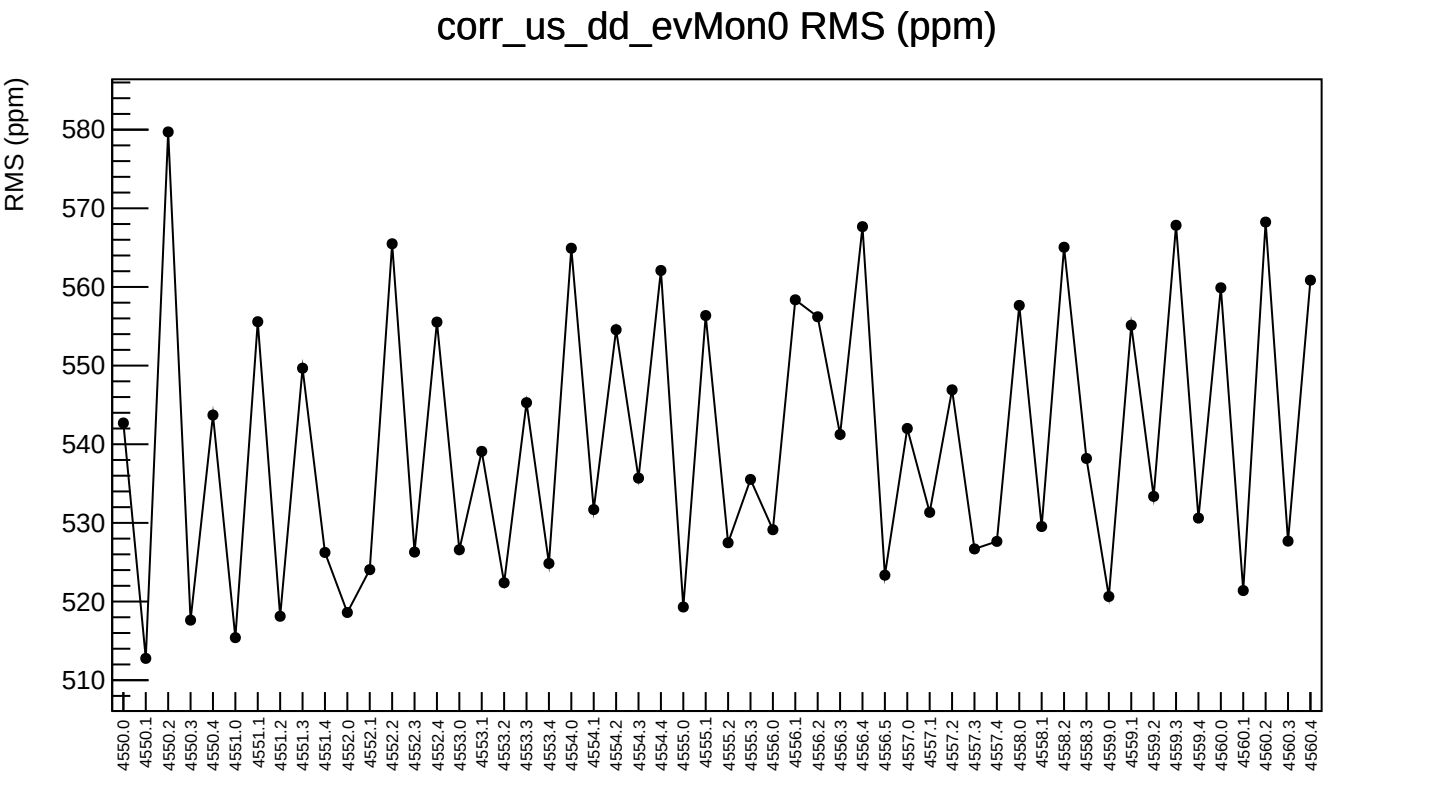

corr_us_avg_evMon10 RMS (ppm)
RMS (ppm)
5
4
3
2
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

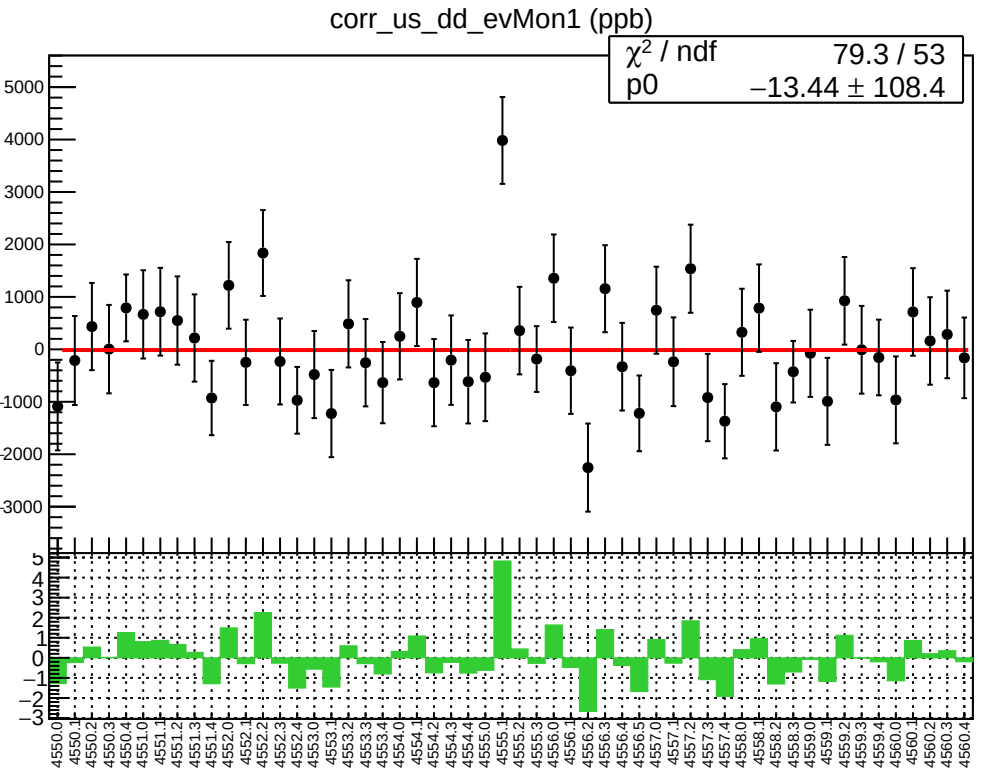

corr_us_avg_evMon11 (ppb)
χ² / ndf 63.95 / 53
p0 1.979 ± 3.354
1D pull distribution
Mean 0.00875 ± 0.1481
Std Dev 1.088 ± 0.1047
Underflow 0
Overflow 0
χ² / ndf 5.691 / 7
Constant 10.42 ± 1.93
Mean −0.105 ± 0.152
Sigma 0.995 ± 0.127

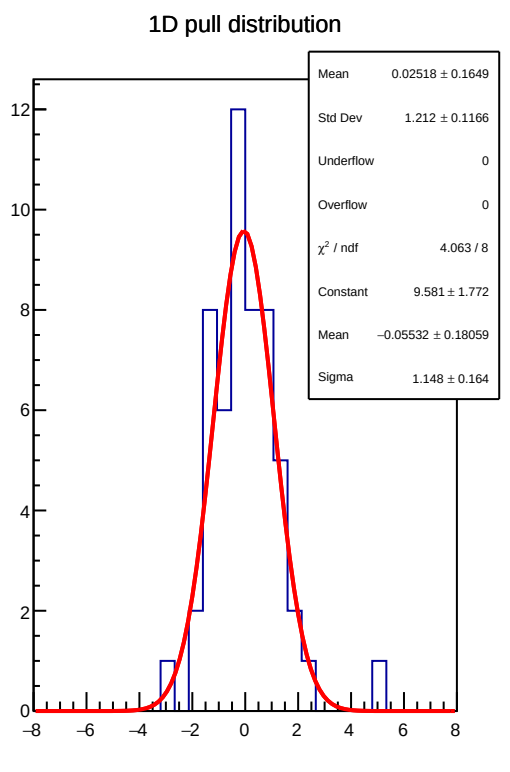

corr_us_avg_evMon11 RMS (ppm)
RMS (ppm)
5
4
3
2
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

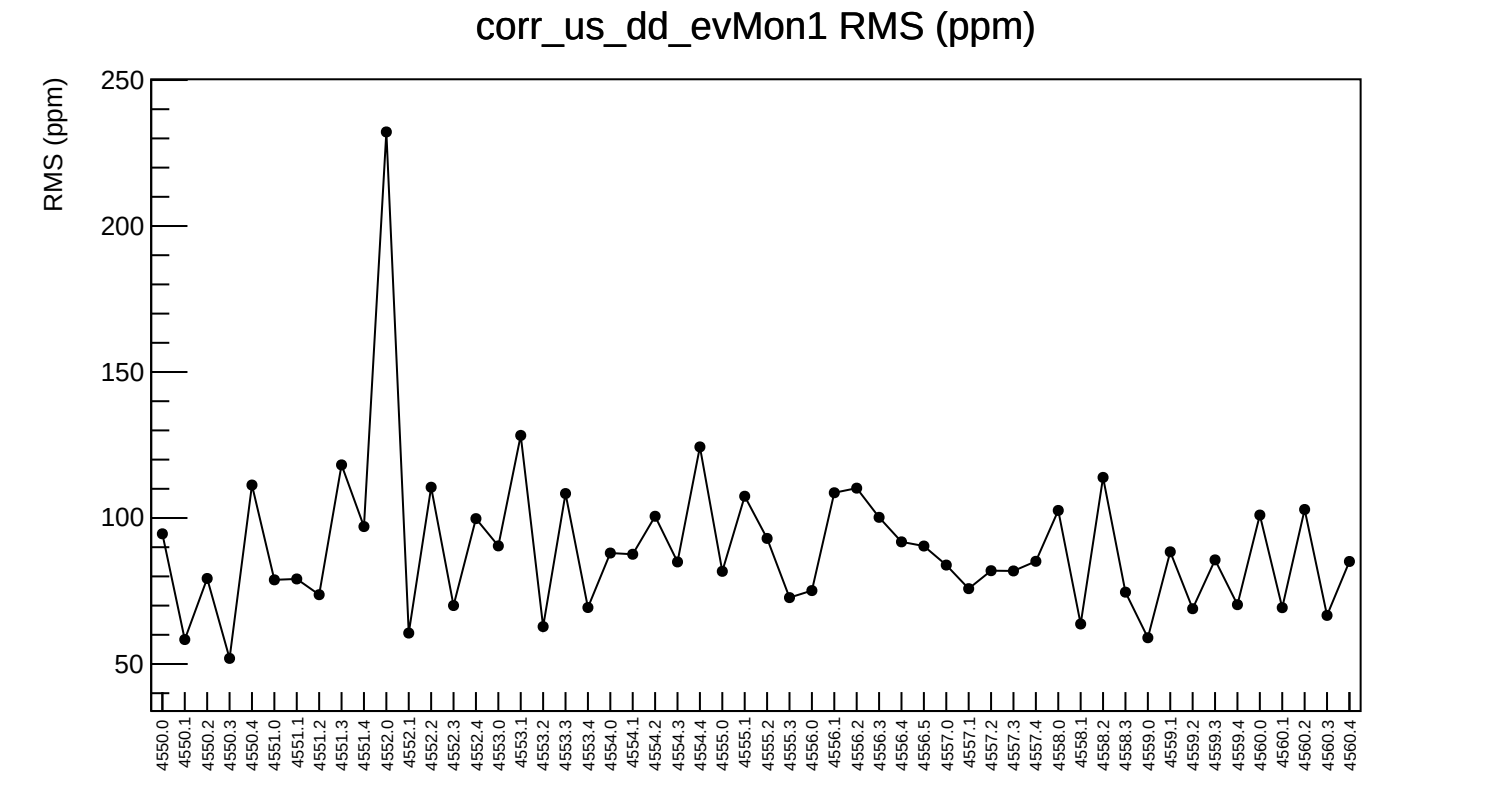

corr_us_dd_evMon0 (ppb)
χ² / ndf 93.39 / 53
p0 19.53 ± 638.7
15000
10000
5000
0
-5000
-10000
-15000
-20000
-25000
2
1
0
−1
−2
−3
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

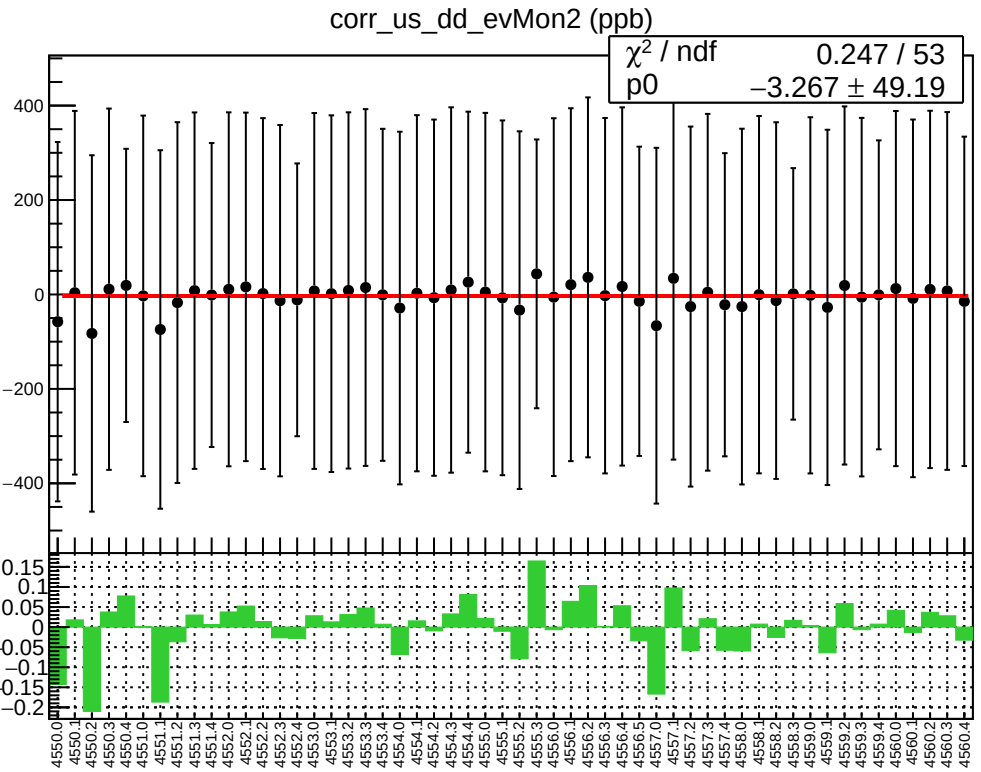

1D pull distribution
Mean 6.108e−05 ± 0.179
Std Dev 1.315 ± 0.1265
Underflow 0
Overflow 0
χ² / ndf 24.26 / 8
Constant 3.68 ± 0.96
Mean 0.2155 ± 0.5748
Sigma 2.112 ± 0.737
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

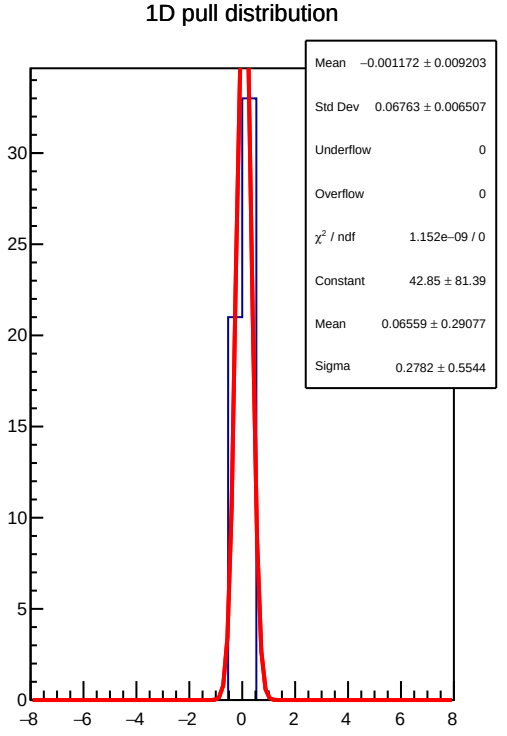

corr_us_dd_evMon0 RMS (ppm)
RMS (ppm)
580
570
560
550
540
530
520
510
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

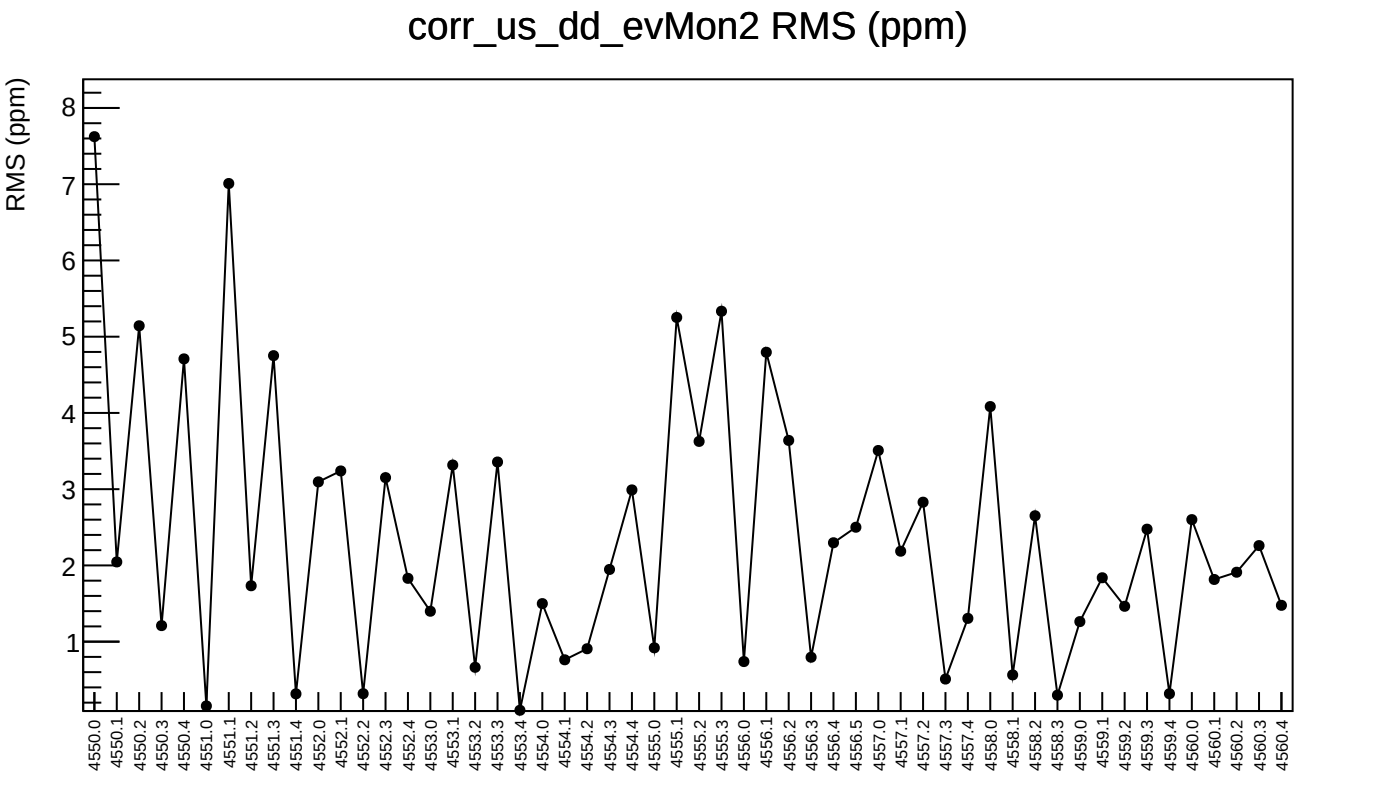

corr_us_dd_evMon1 (ppb)
χ² / ndf 79.3 / 53
p0 −13.44 ± 108.4

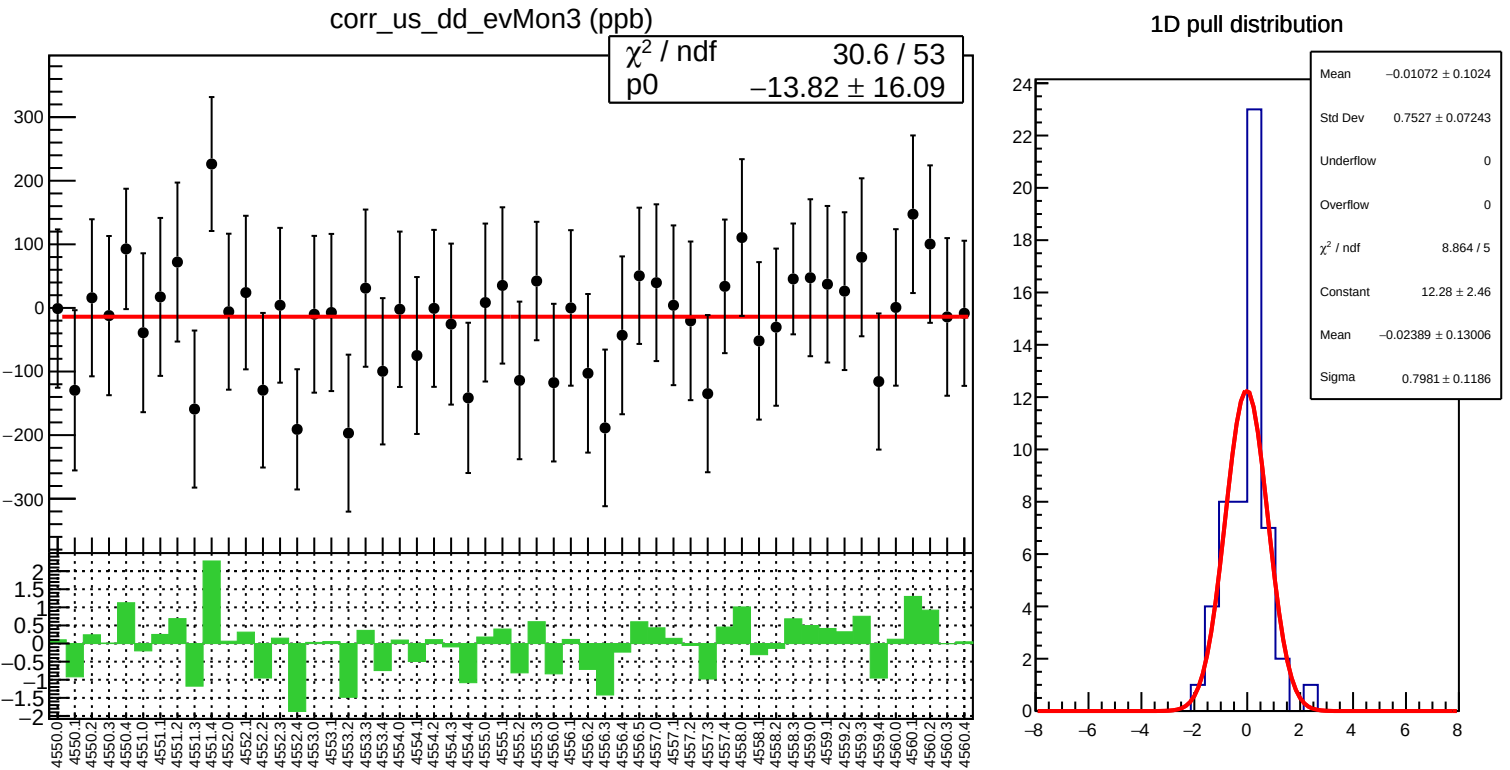

1D pull distribution
Mean 0.02518 ± 0.1649
Std Dev 1.212 ± 0.1166
Underflow 0
Overflow 0
χ² / ndf 4.063 / 8
Constant 9.581 ± 1.772
Mean −0.05532 ± 0.18059
Sigma 1.148 ± 0.164

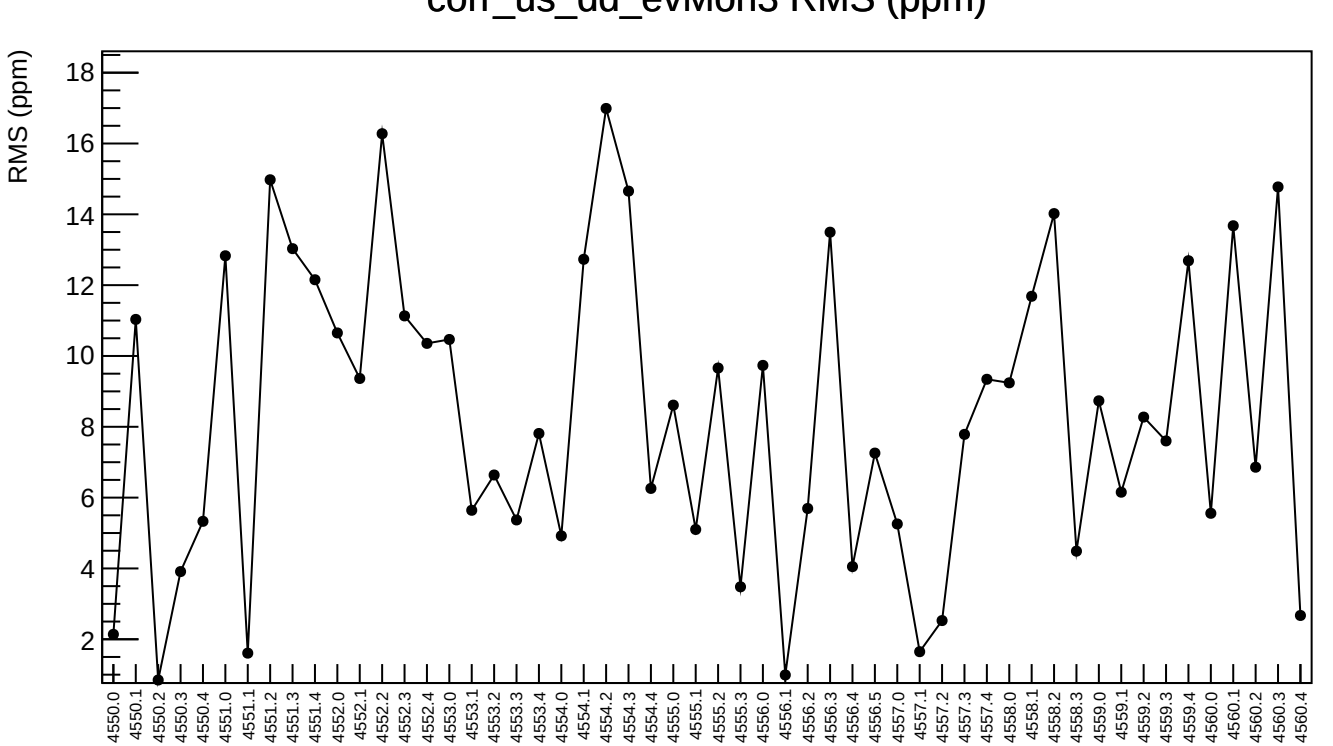

corr_us_dd_evMon1 RMS (ppm)
RMS (ppm)
250
200
150
100
50
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

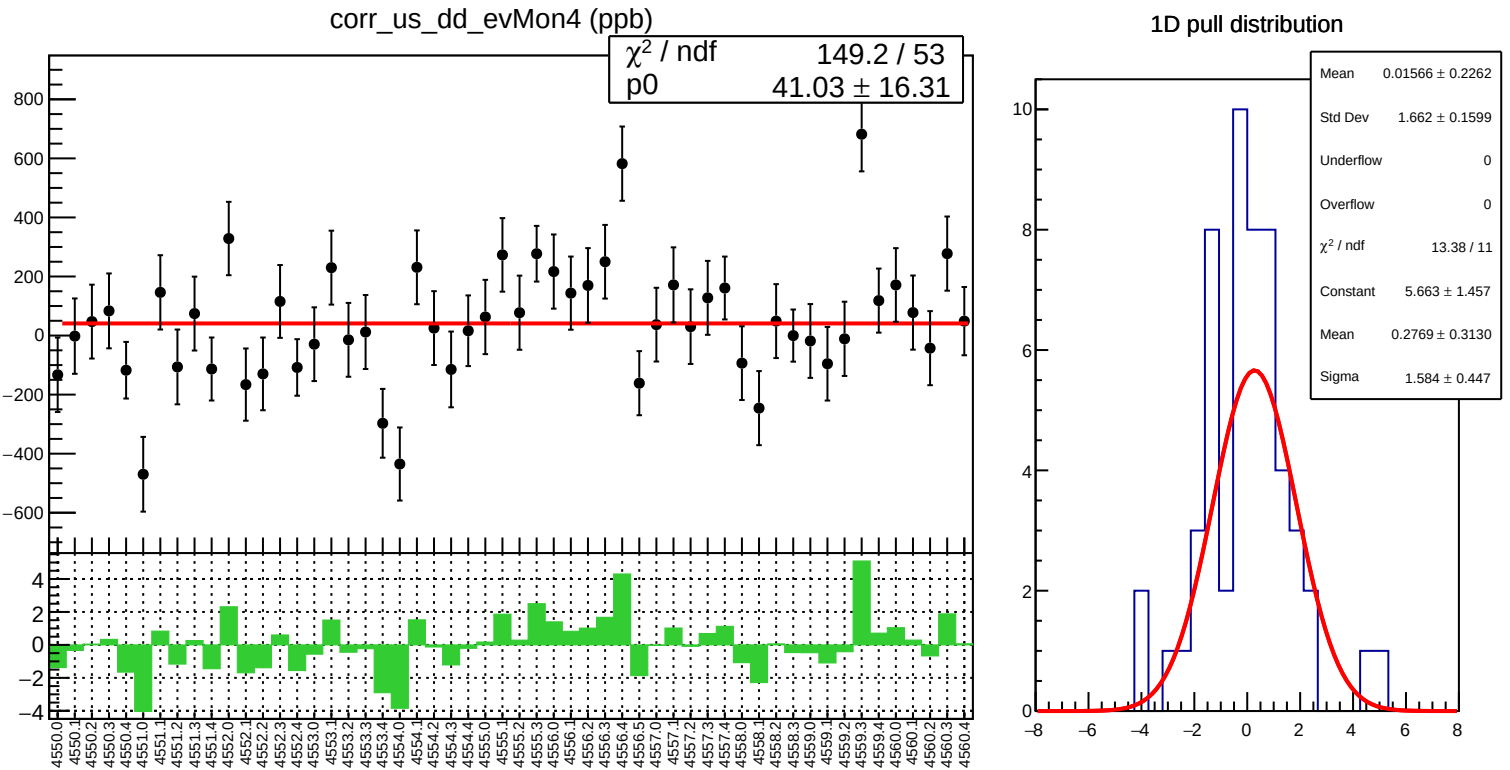

corr_us_dd_evMon2 (ppb)
χ² / ndf 0.247 / 53
p0 −3.267 ± 49.19
400
200
0
−200
−400
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

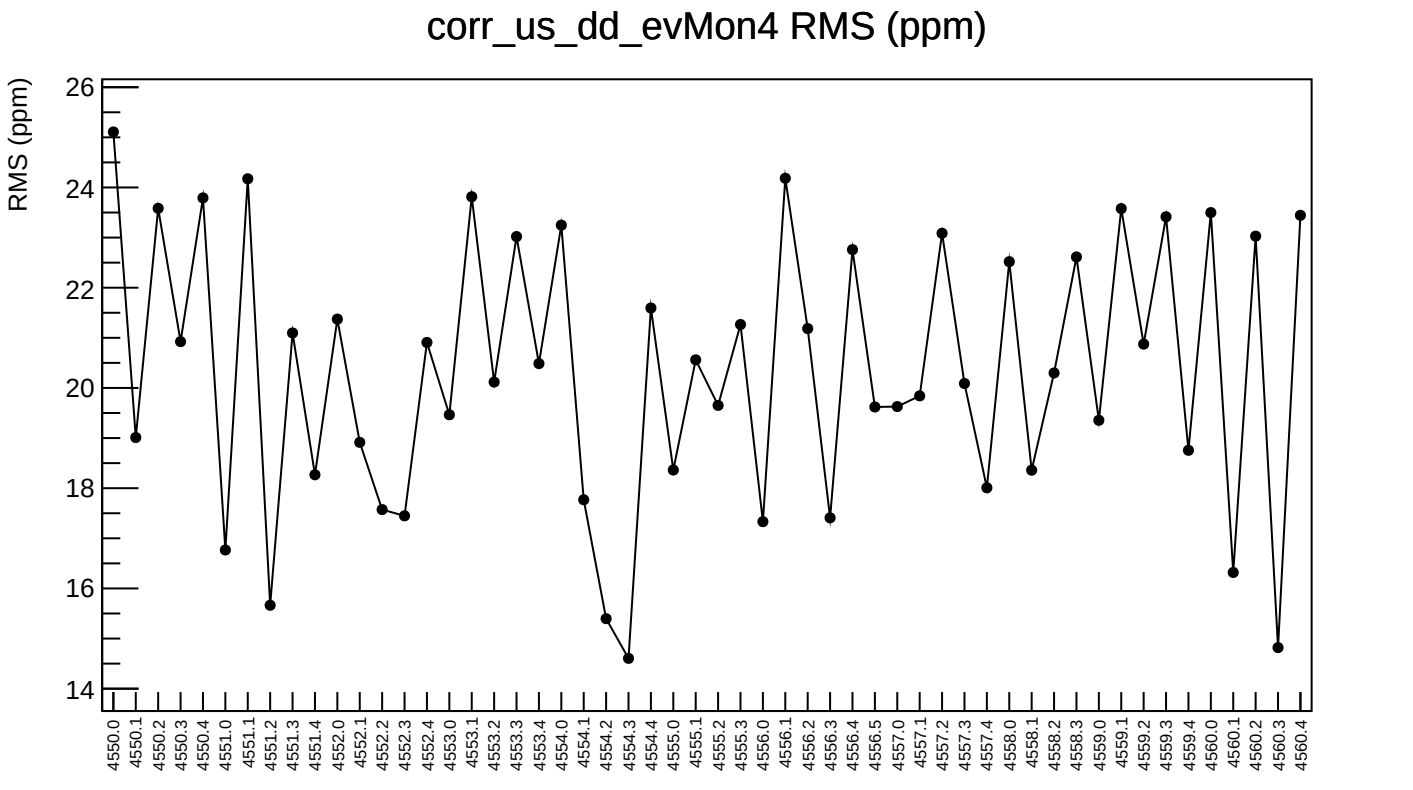

1D pull distribution
Mean −0.001172 ± 0.009203
Std Dev 0.06763 ± 0.006507
Underflow 0
Overflow 0
χ² / ndf 1.152e−09 / 0
Constant 42.85 ± 81.39
Mean 0.06559 ± 0.29077
Sigma 0.2782 ± 0.5544
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

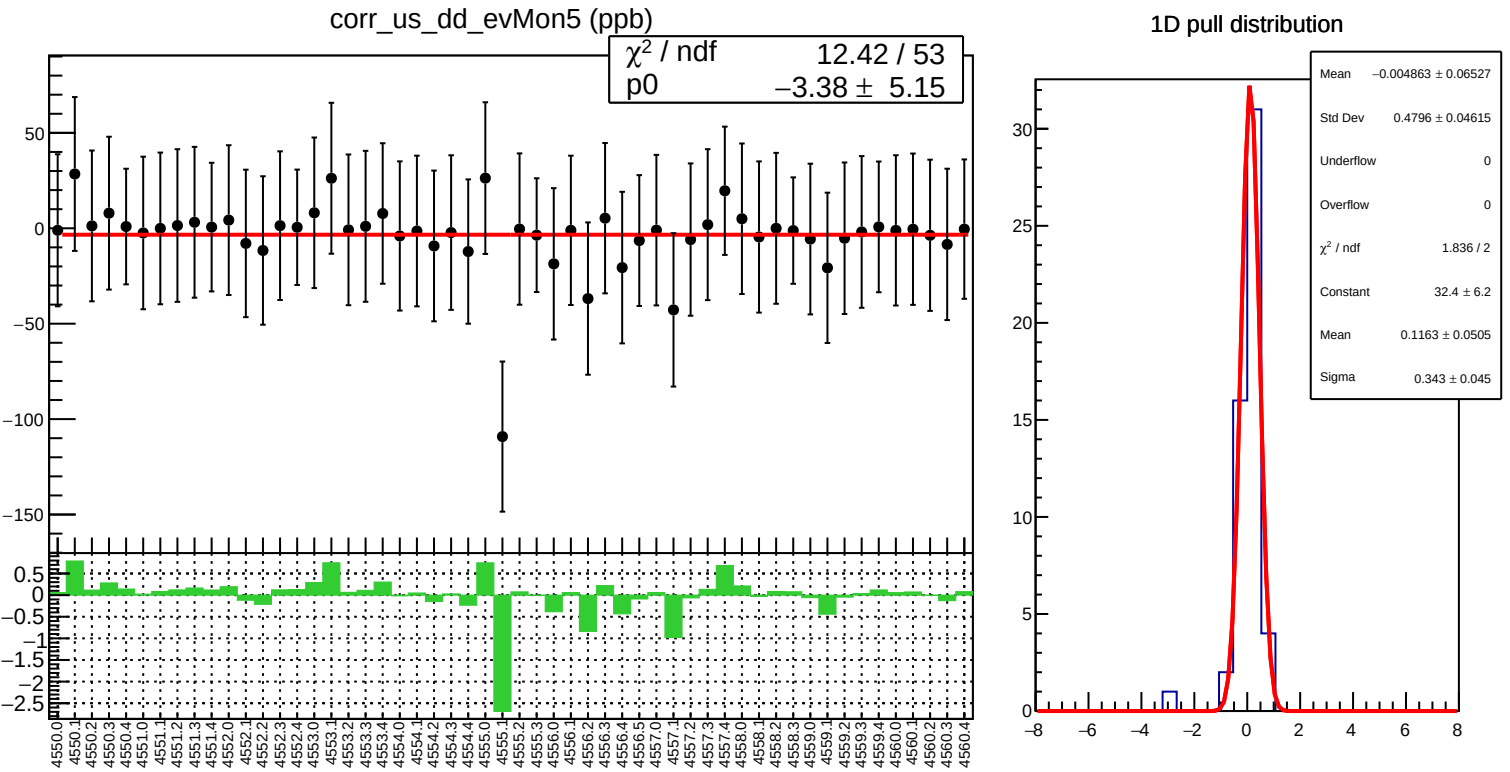

corr_us_dd_evMon2 RMS (ppm)
RMS (ppm)
8
7
6
5
4
3
2
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

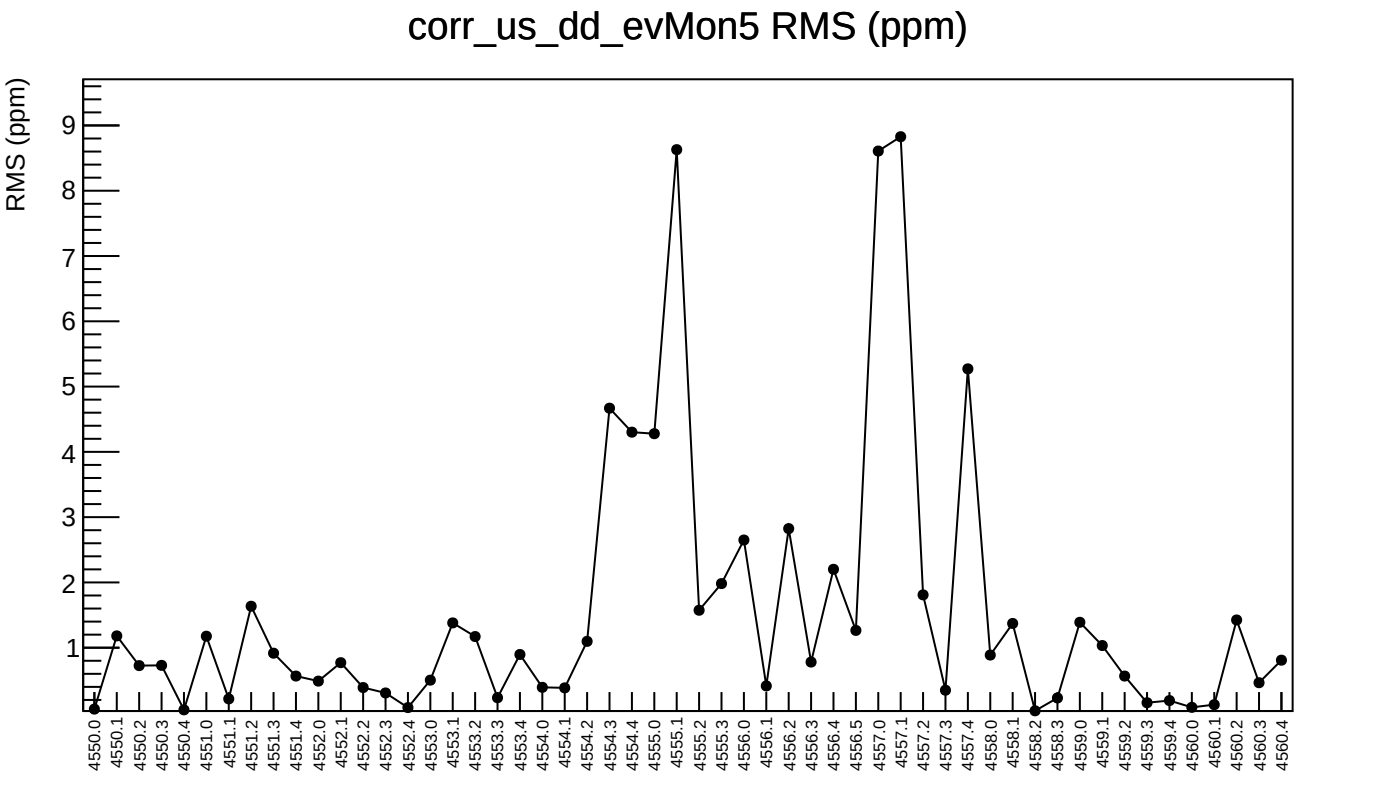

corr_us_dd_evMon3 (ppb)
χ² / ndf 30.6 / 53
p0 −13.82 ± 16.09
1D pull distribution
Mean −0.01072 ± 0.1024
Std Dev 0.7527 ± 0.07243
Underflow 0
Overflow 0
χ² / ndf 8.864 / 5
Constant 12.28 ± 2.46
Mean −0.02389 ± 0.13006
Sigma 0.7981 ± 0.1186

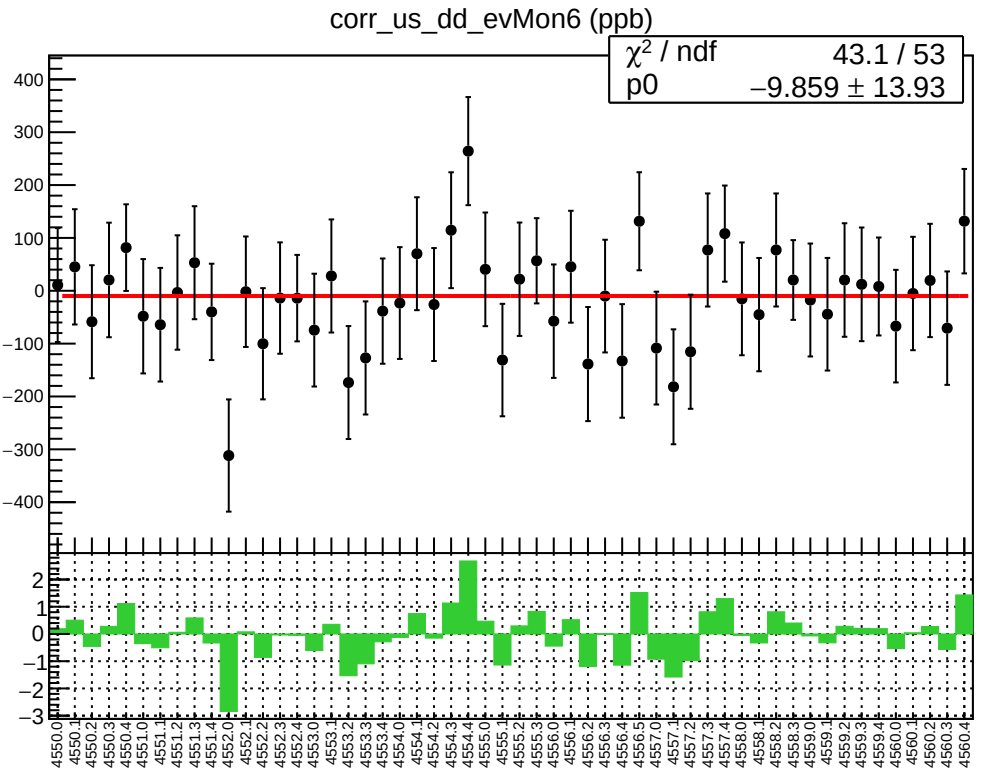

corr_us_dd_evMon3 RMS (ppm)
RMS (ppm)
18
16
14
12
10
8
6
4
2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

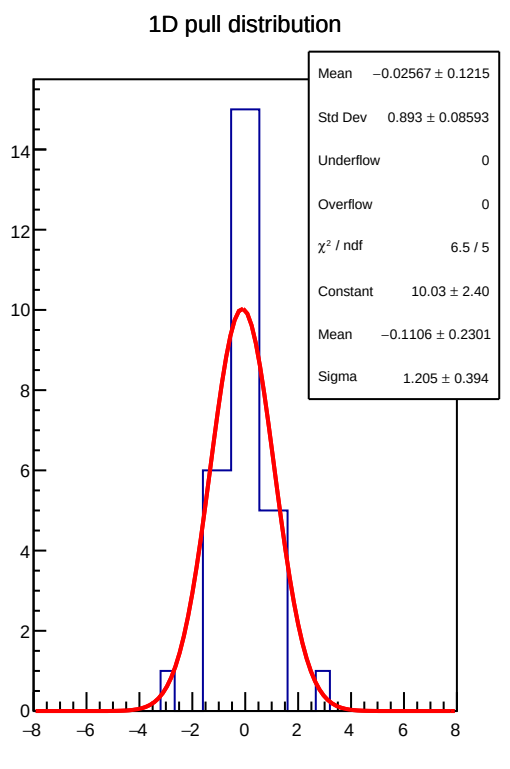

corr_us_dd_evMon4 (ppb)
χ² / ndf 149.2 / 53
p0 41.03 ± 16.31
1D pull distribution
Mean 0.01566 ± 0.2262
Std Dev 1.662 ± 0.1599
Underflow 0
Overflow 0
χ² / ndf 13.38 / 11
Constant 5.663 ± 1.457
Mean 0.2769 ± 0.3130
Sigma 1.584 ± 0.447

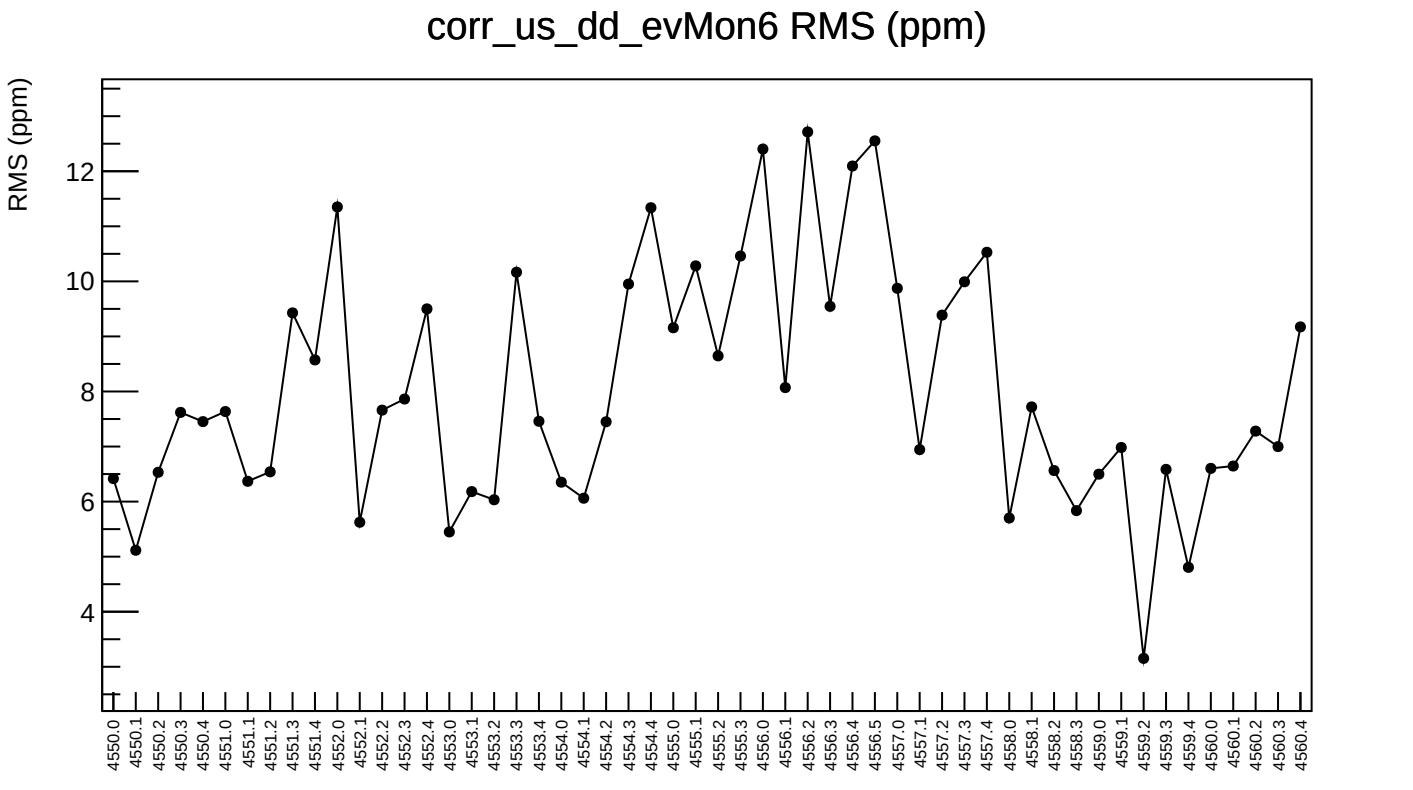

corr_us_dd_evMon4 RMS (ppm)
RMS (ppm)
26
24
22
20
18
16
14
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

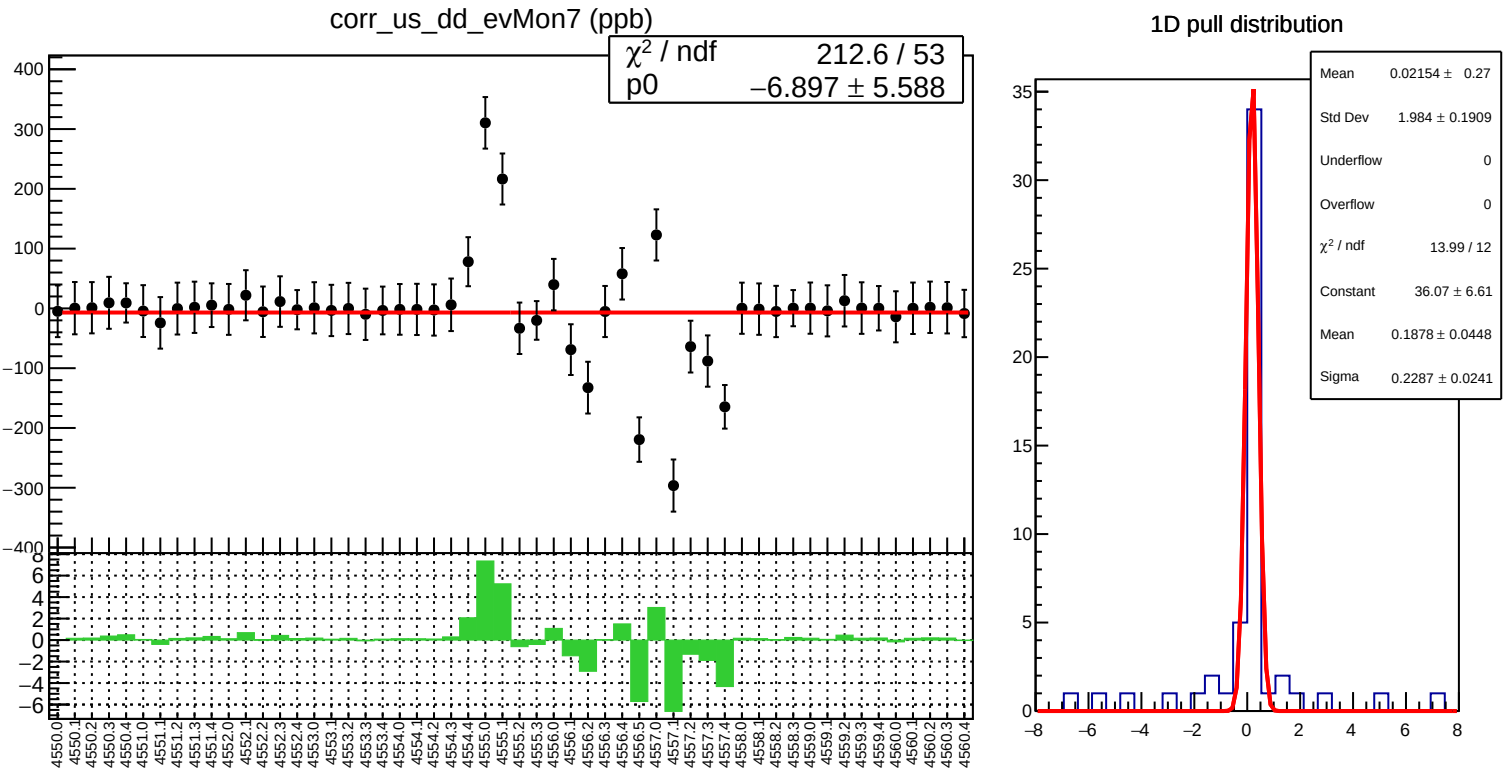

corr_us_dd_evMon5 (ppb)
χ² / ndf 12.42 / 53
p0 −3.38 ± 5.15
1D pull distribution
Mean −0.004863 ± 0.06527
Std Dev 0.4796 ± 0.04615
Underflow 0
Overflow 0
χ² / ndf 1.836 / 2
Constant 32.4 ± 6.2
Mean 0.1163 ± 0.0505
Sigma 0.343 ± 0.045

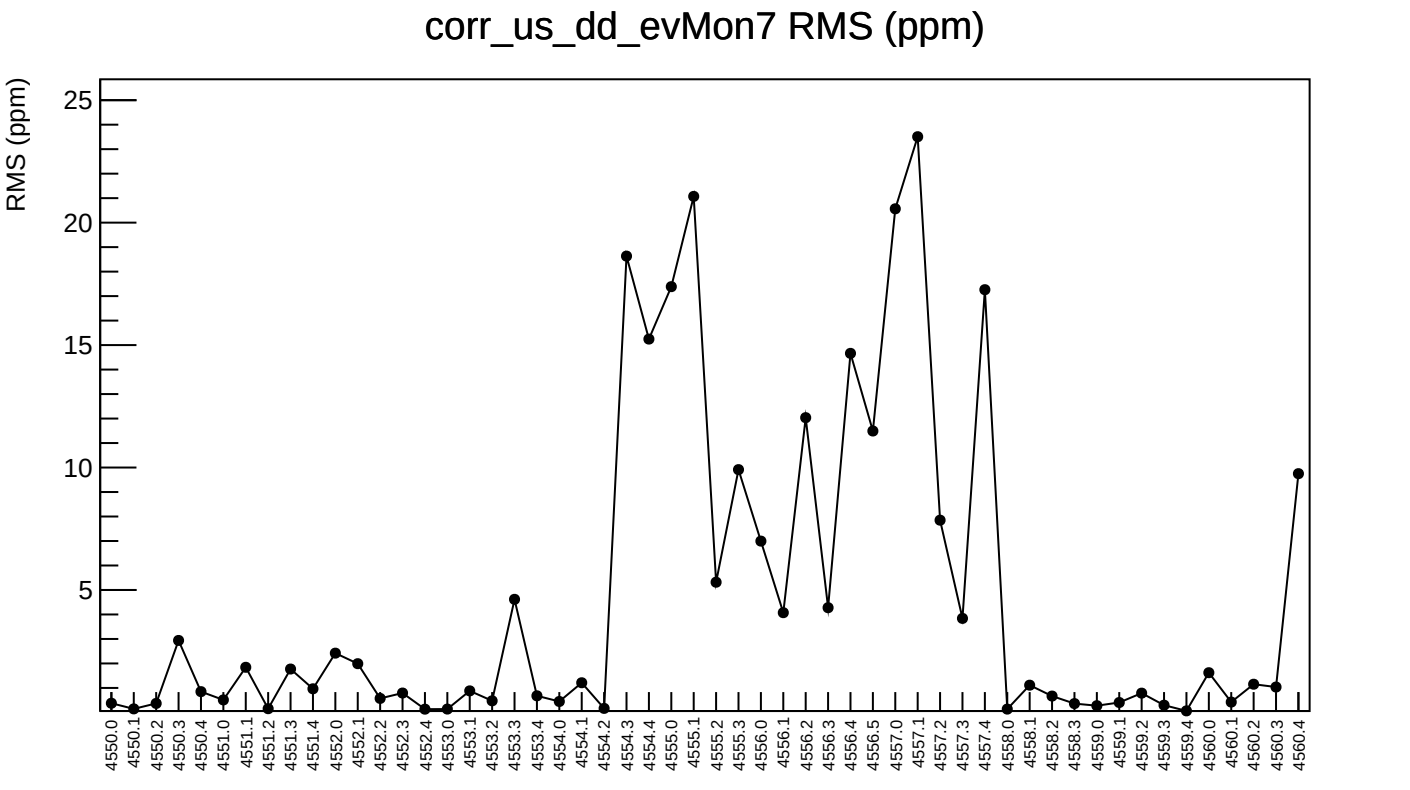

corr_us_dd_evMon5 RMS (ppm)
RMS (ppm)
9
8
7
6
5
4
3
2
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

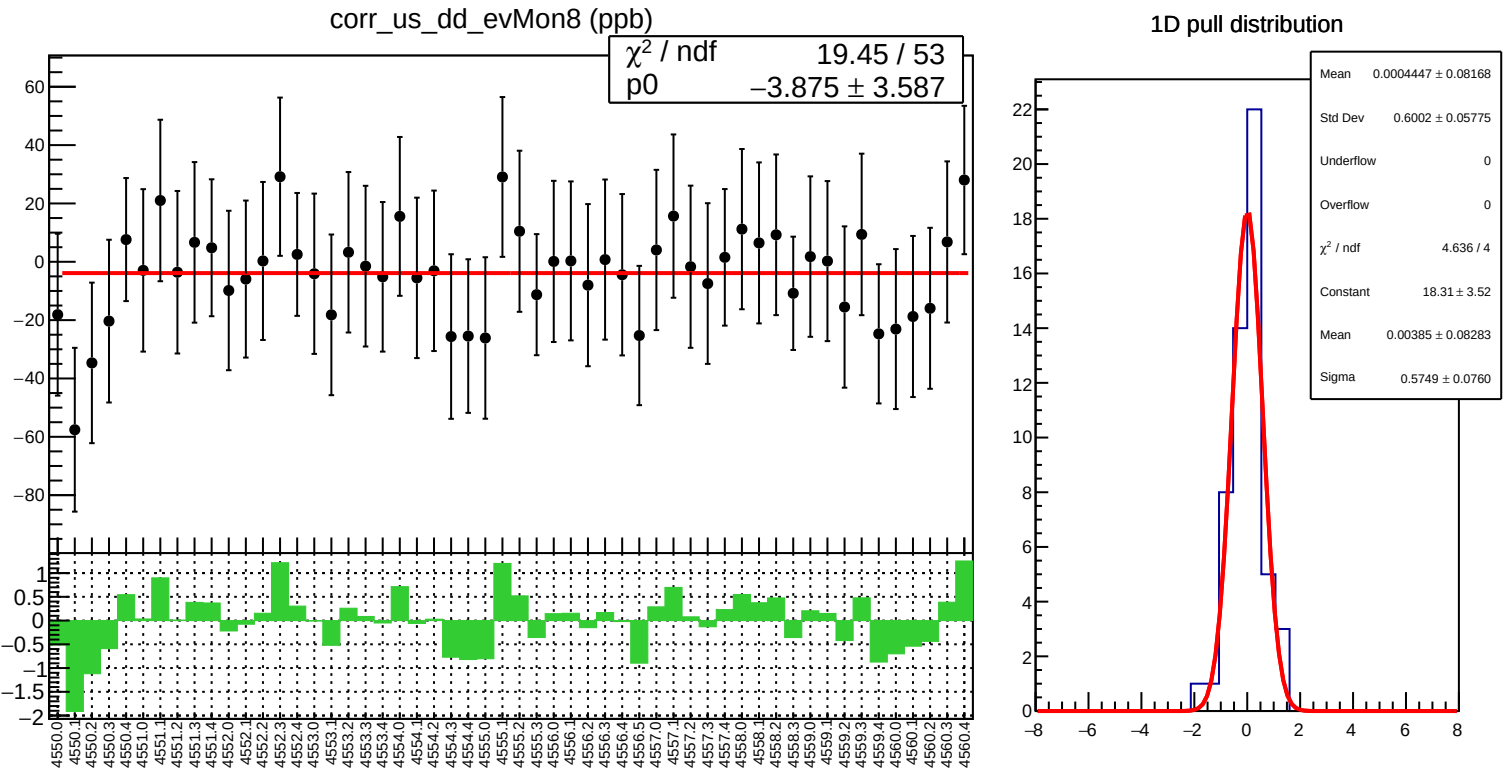

corr_us_dd_evMon6 (ppb)
χ² / ndf 43.1 / 53
p0 −9.859 ± 13.93

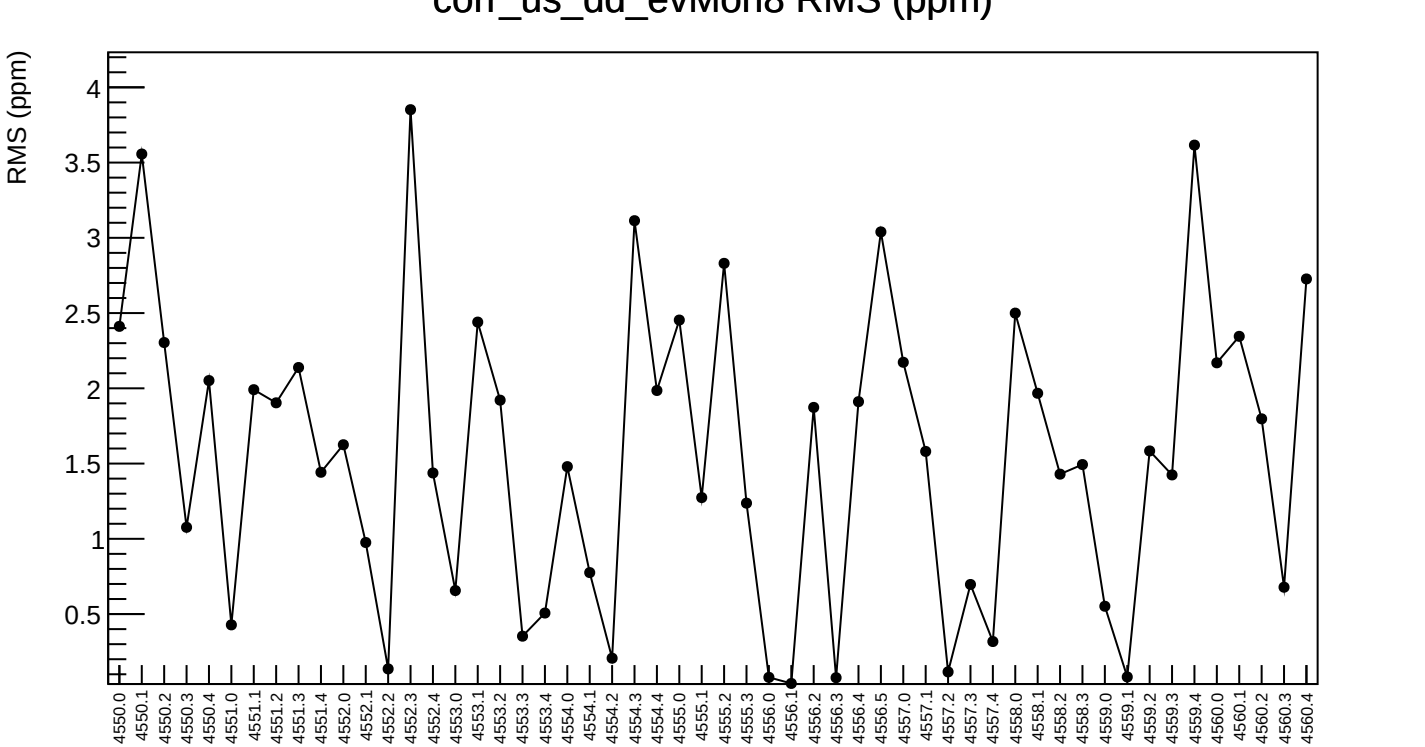

1D pull distribution
Mean −0.02567 ± 0.1215
Std Dev 0.893 ± 0.08593
Underflow 0
Overflow 0
χ² / ndf 6.5 / 5
Constant 10.03 ± 2.40
Mean −0.1106 ± 0.2301
Sigma 1.205 ± 0.394

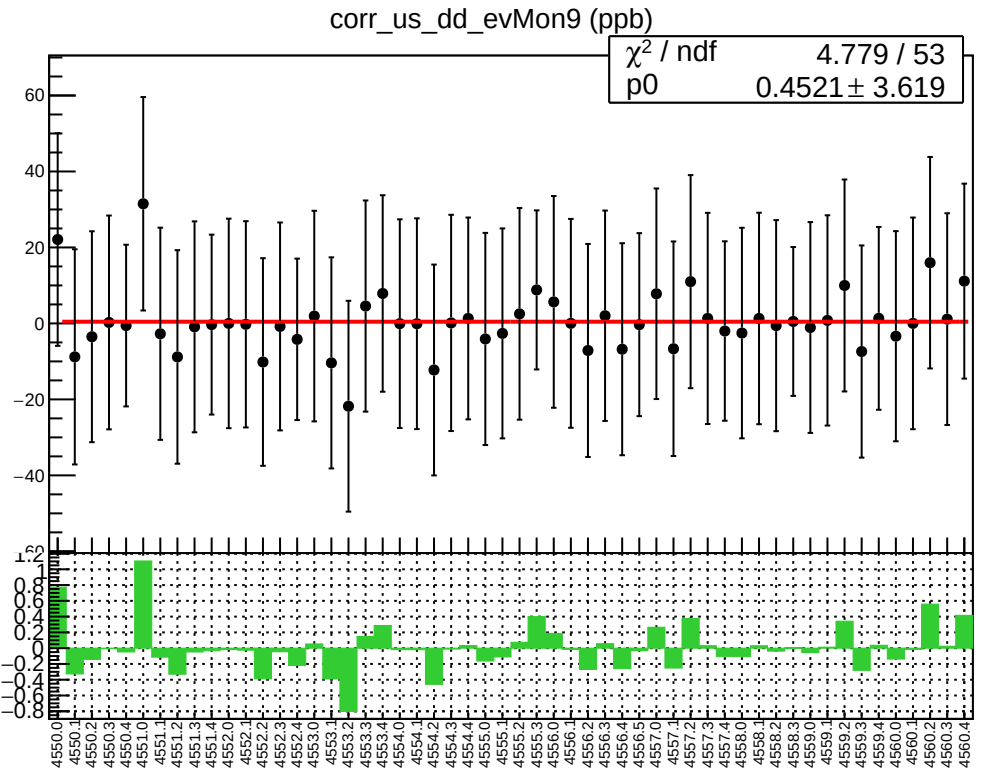

corr_us_dd_evMon6 RMS (ppm)
RMS (ppm)
12
10
8
6
4
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

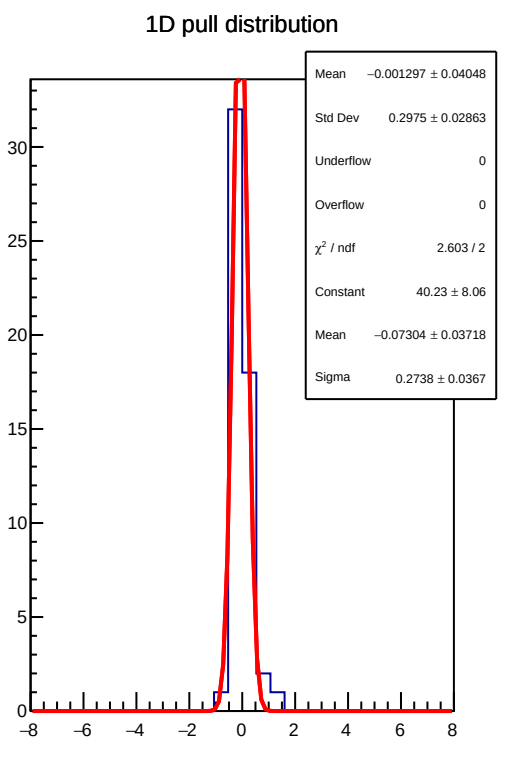

corr_us_dd_evMon7 (ppb)
χ² / ndf 212.6 / 53
p0 −6.897 ± 5.588
1D pull distribution
Mean 0.02154 ± 0.27
Std Dev 1.984 ± 0.1909
Underflow 0
Overflow 0
χ² / ndf 13.99 / 12
Constant 36.07 ± 6.61
Mean 0.1878 ± 0.0448
Sigma 0.2287 ± 0.0241

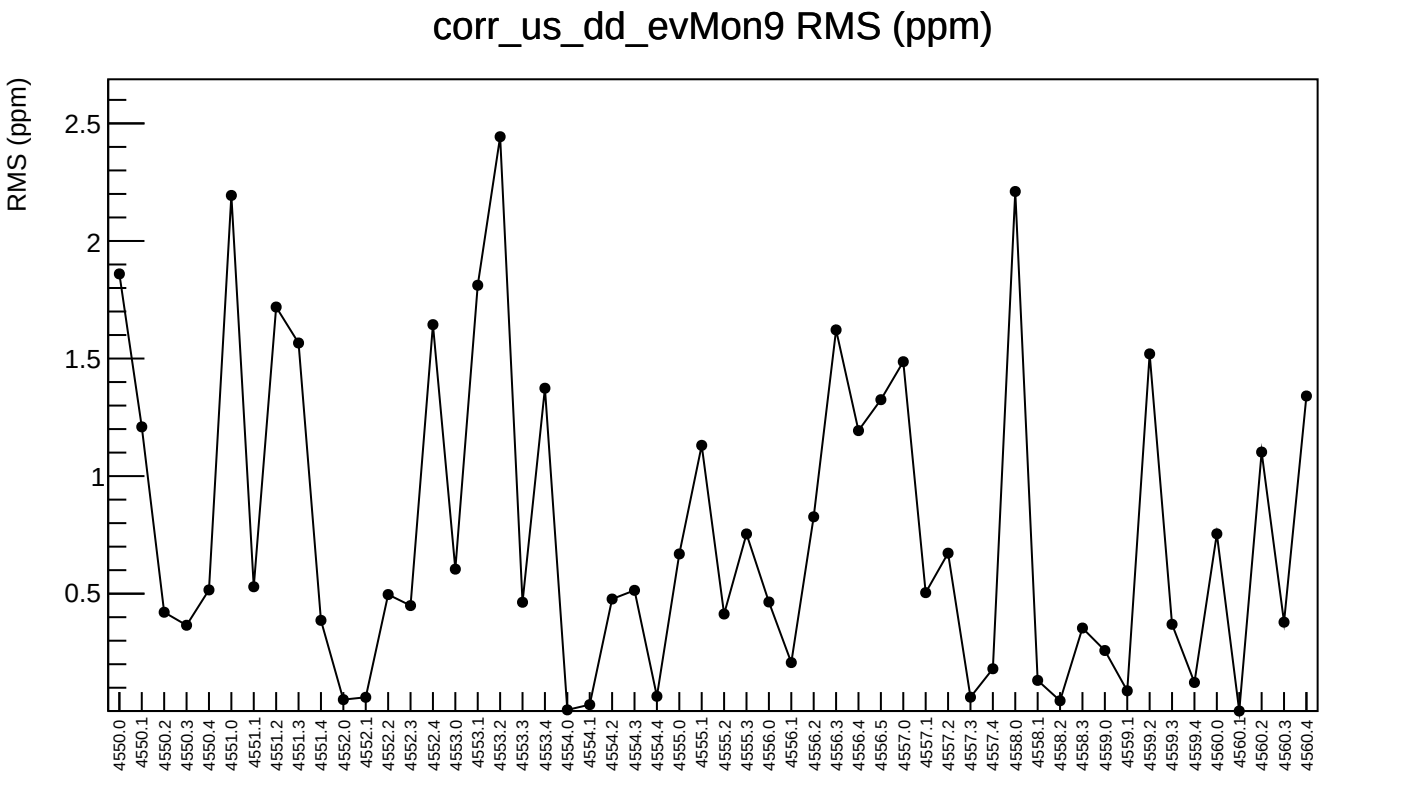

corr_us_dd_evMon7 RMS (ppm)
RMS (ppm)
25
20
15
10
5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

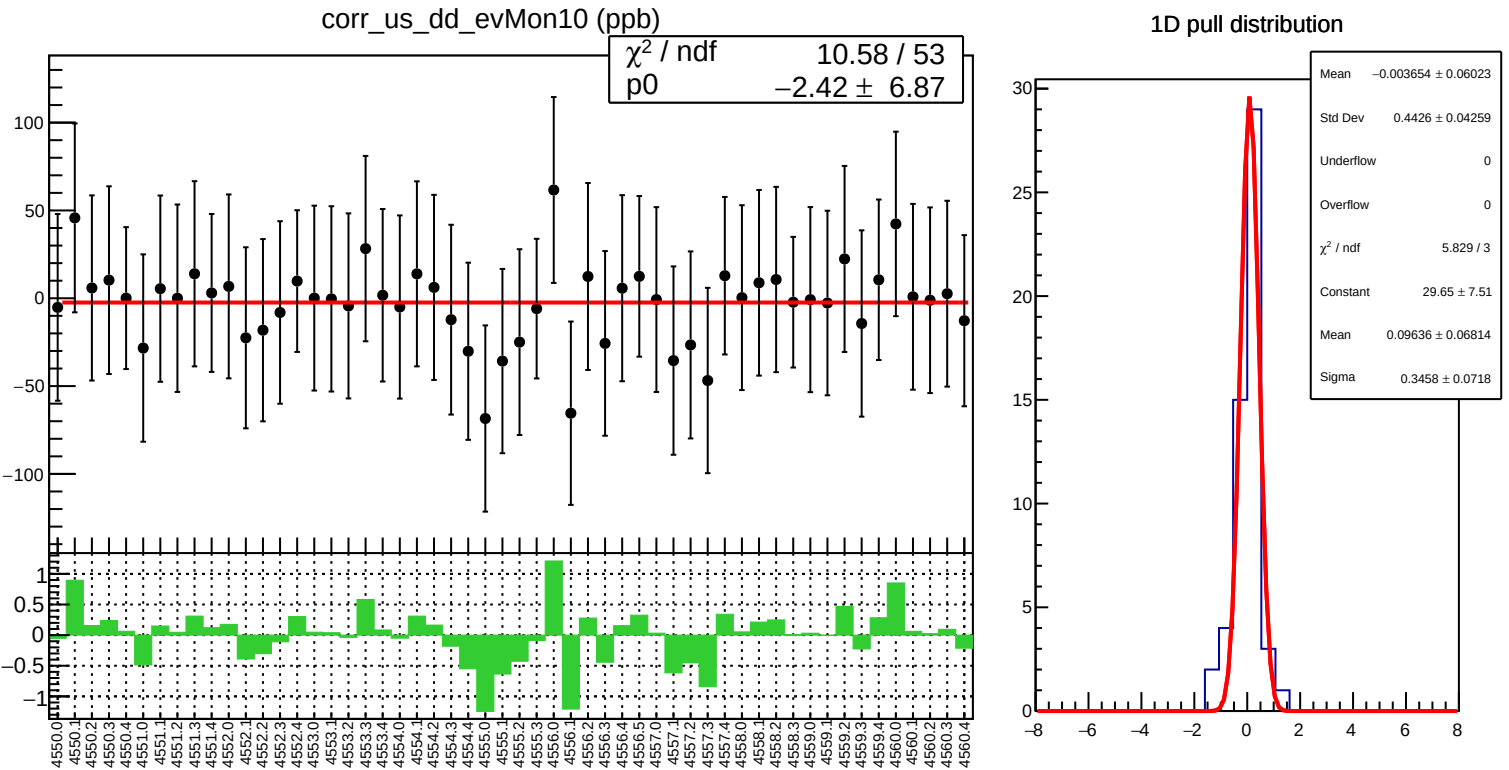

corr_us_dd_evMon8 (ppb)
χ² / ndf 19.45 / 53
p0 −3.875 ± 3.587
1D pull distribution
Mean 0.0004447 ± 0.08168
Std Dev 0.6002 ± 0.05775
Underflow 0
Overflow 0
χ² / ndf 4.636 / 4
Constant 18.31 ± 3.52
Mean 0.00385 ± 0.08283
Sigma 0.5749 ± 0.0760

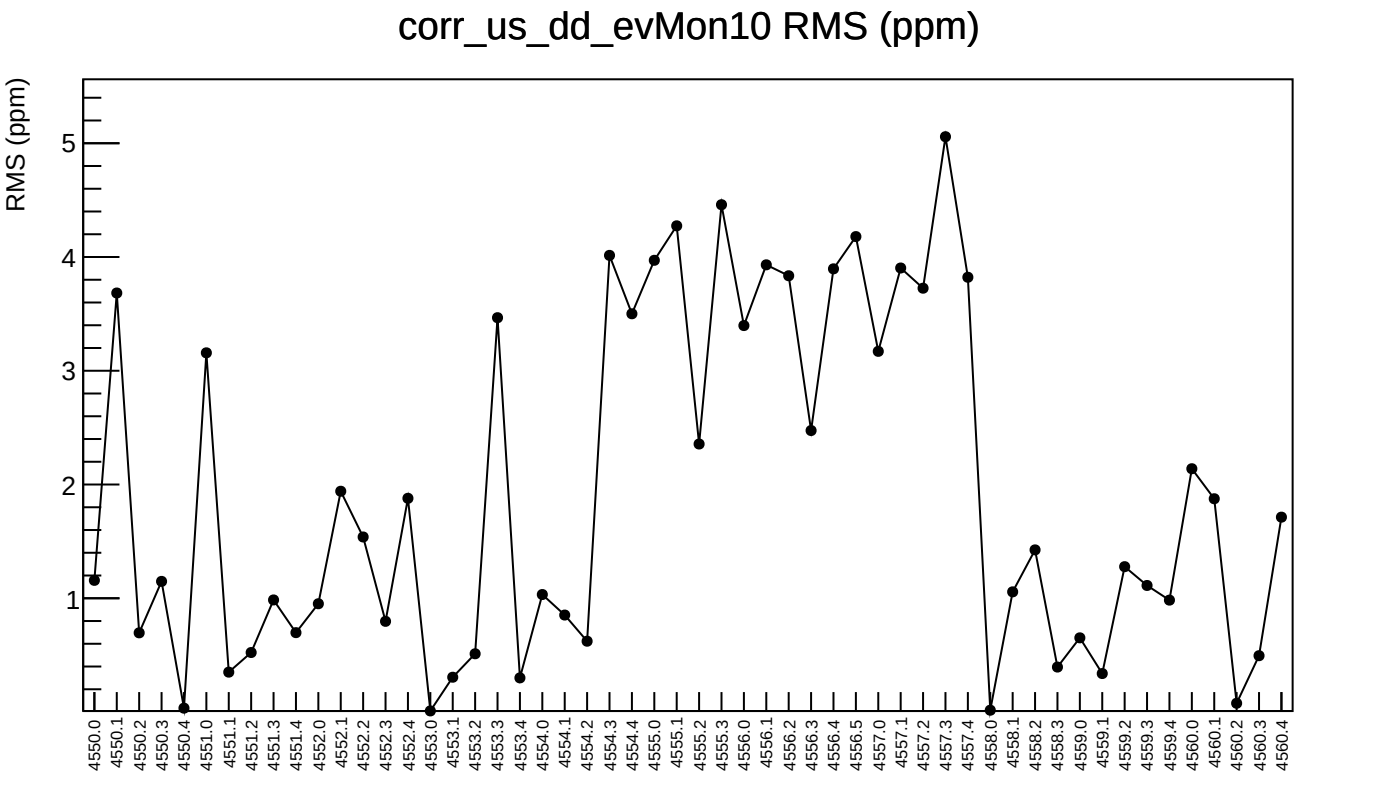

corr_us_dd_evMon8 RMS (ppm)
RMS (ppm)
4
3.5
3
2.5
2
1.5
1
0.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

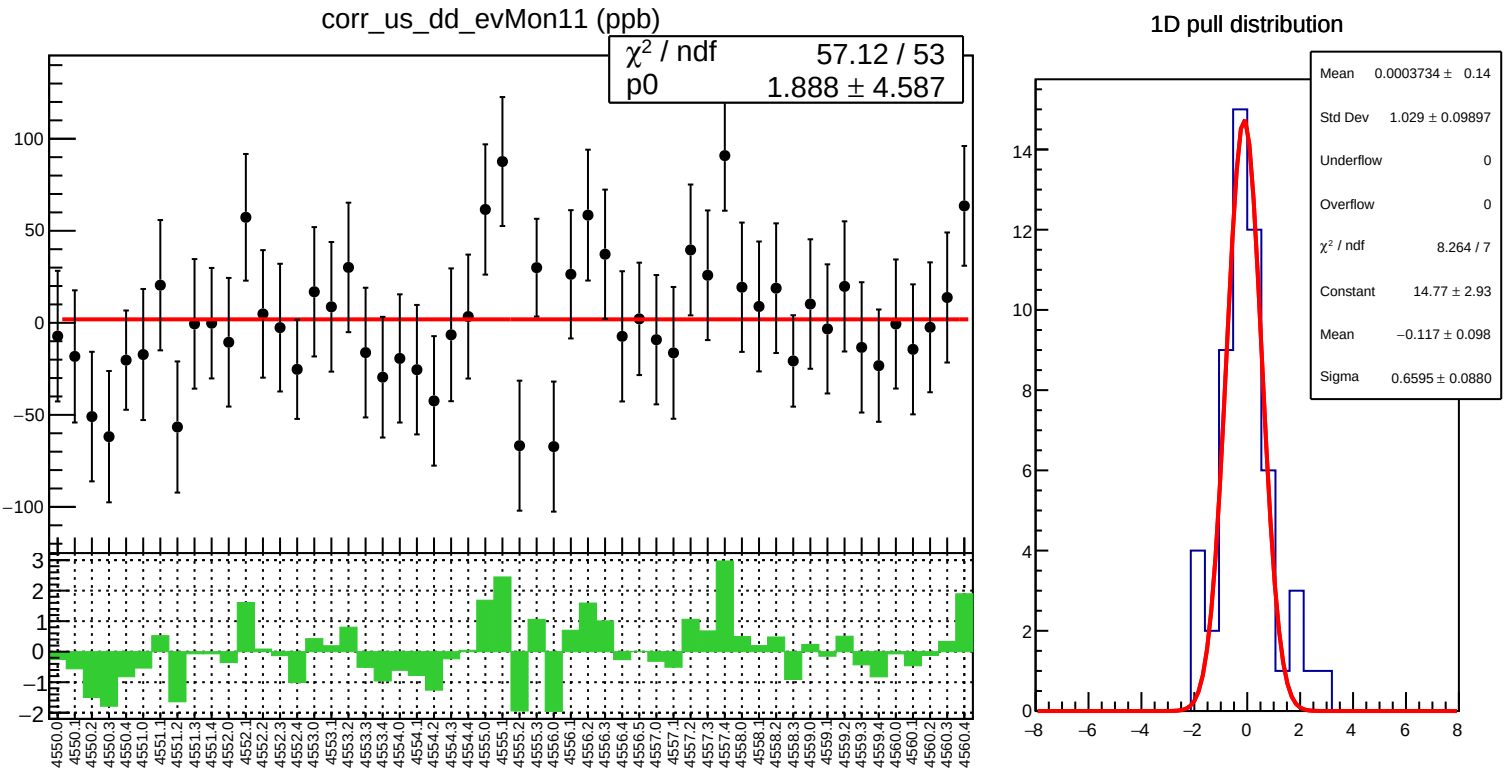

corr_us_dd_evMon9 (ppb)
χ² / ndf 4.779 / 53
p0 0.4521 ± 3.619

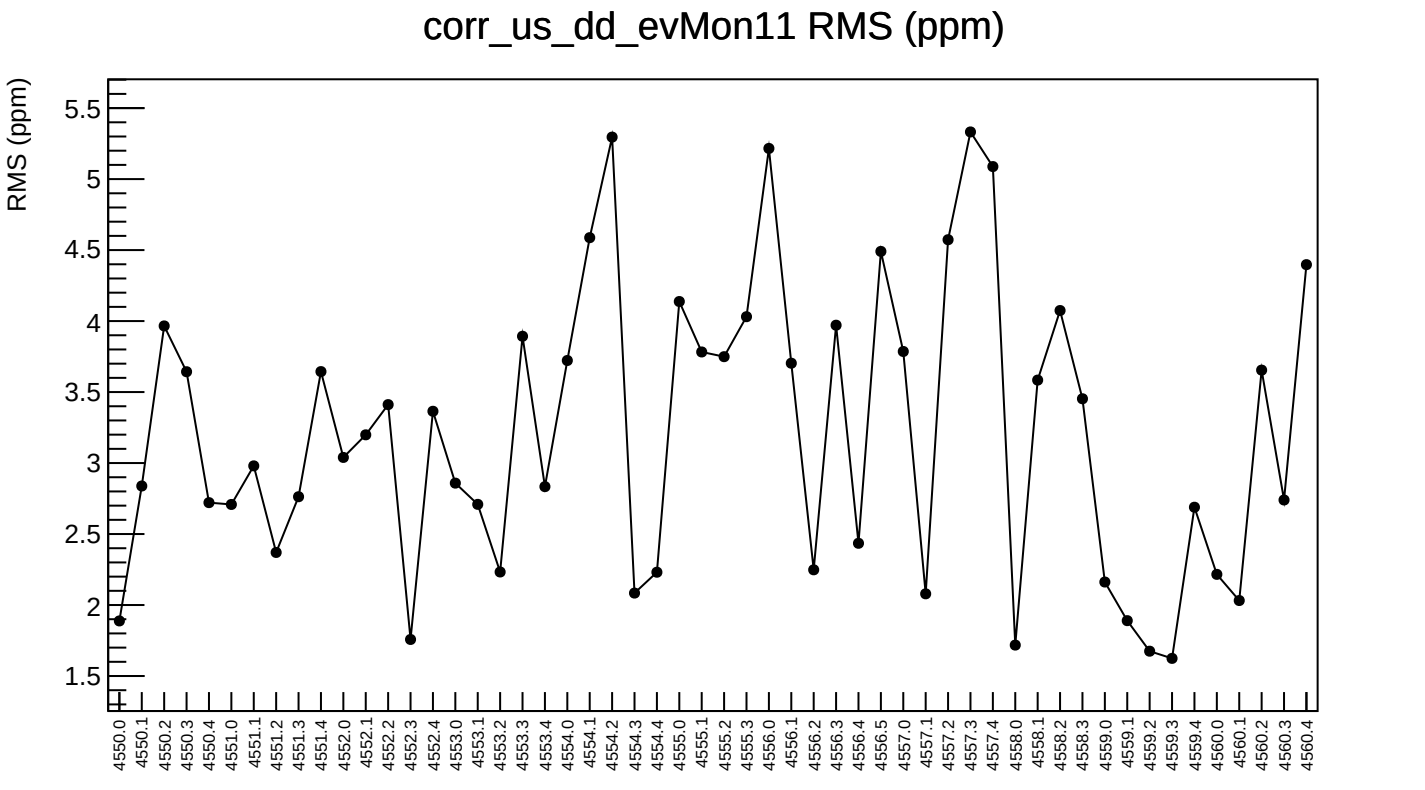

1D pull distribution
Mean −0.001297 ± 0.04048
Std Dev 0.2975 ± 0.02863
Underflow 0
Overflow 0
χ² / ndf 2.603 / 2
Constant 40.23 ± 8.06
Mean −0.07304 ± 0.03718
Sigma 0.2738 ± 0.0367

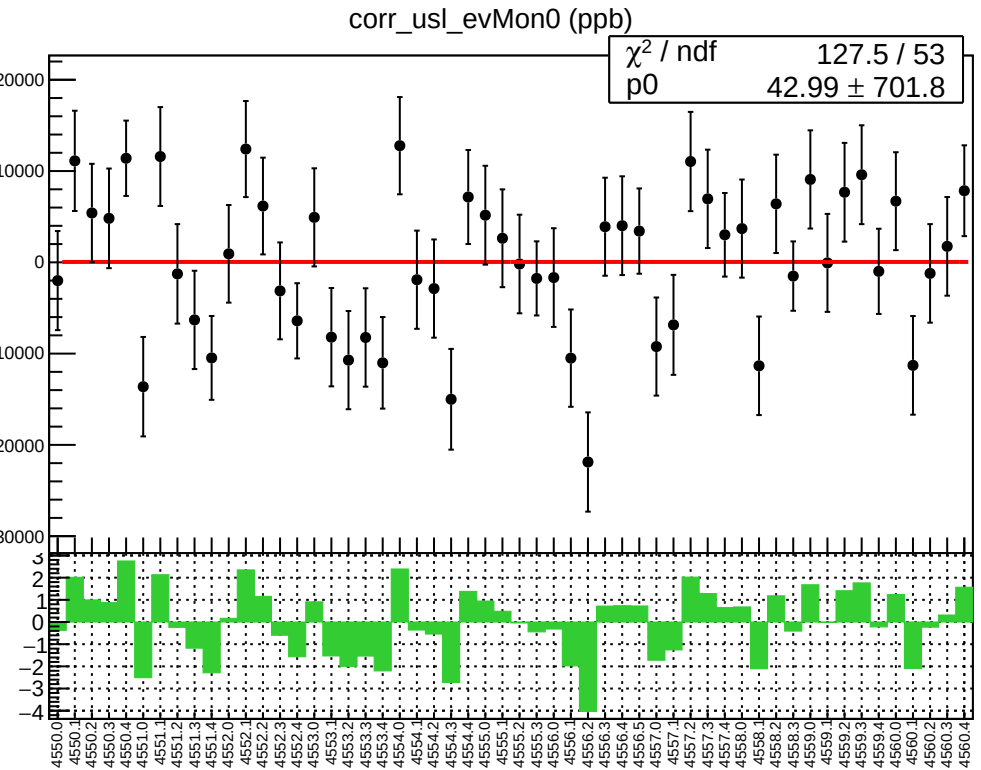

corr_us_dd_evMon9 RMS (ppm)
RMS (ppm)
2.5
2
1.5
1
0.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

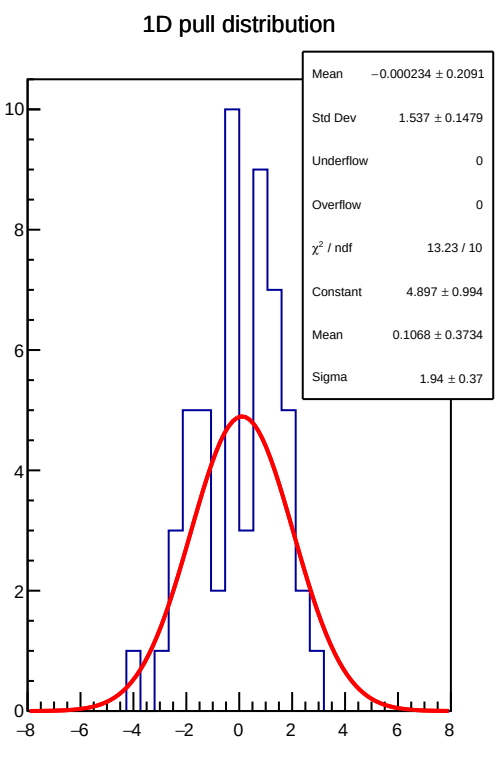

corr_us_dd_evMon10 (ppb)
χ² / ndf 10.58 / 53
p0 −2.42 ± 6.87
100
50
0
−50
−100
1
0.5
0
−0.5
−1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4
1D pull distribution
Mean −0.003654 ± 0.06023
Std Dev 0.4426 ± 0.04259
Underflow 0
Overflow 0
χ² / ndf 5.829 / 3
Constant 29.65 ± 7.51
Mean 0.09636 ± 0.06814
Sigma 0.3458 ± 0.0718
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

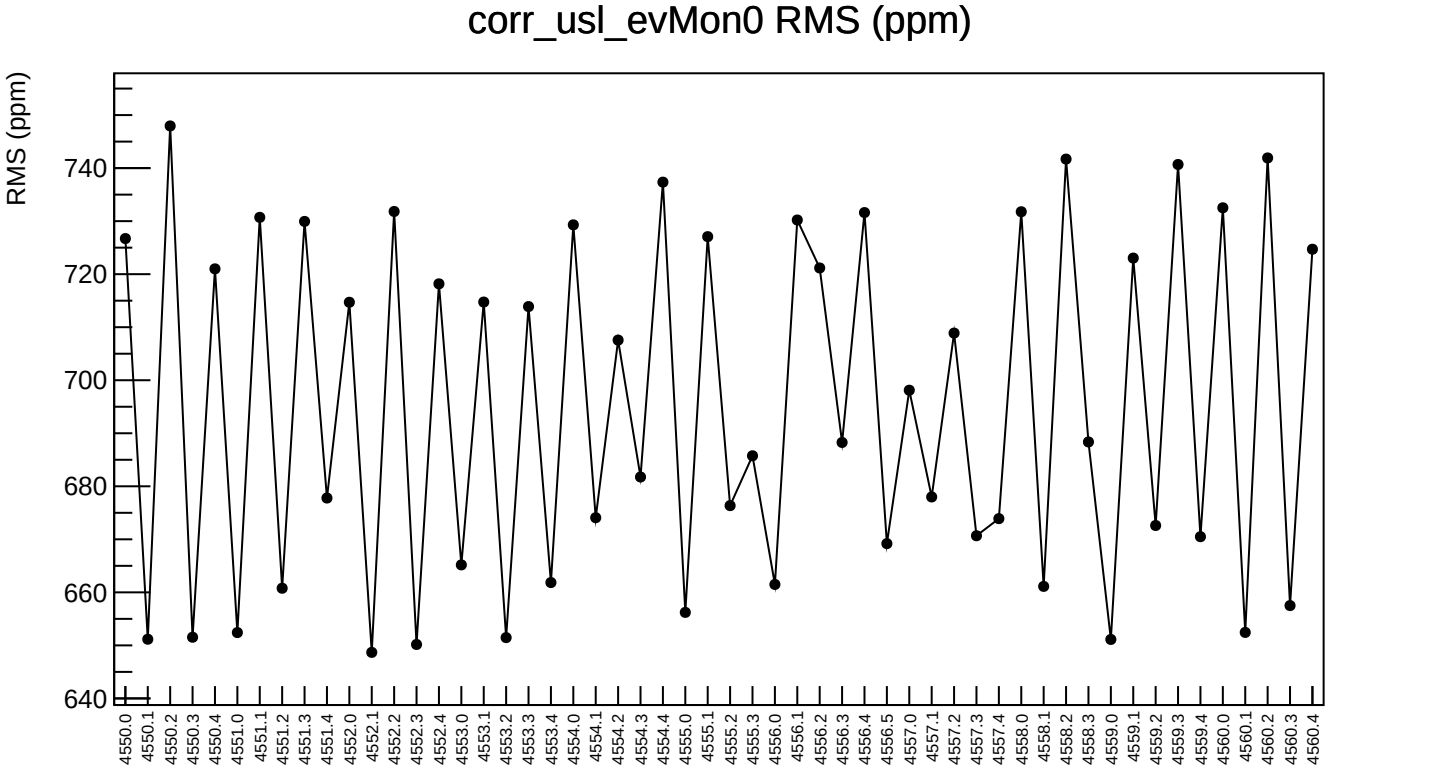

corr_us_dd_evMon10 RMS (ppm)
RMS (ppm)
1
2
3
4
5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

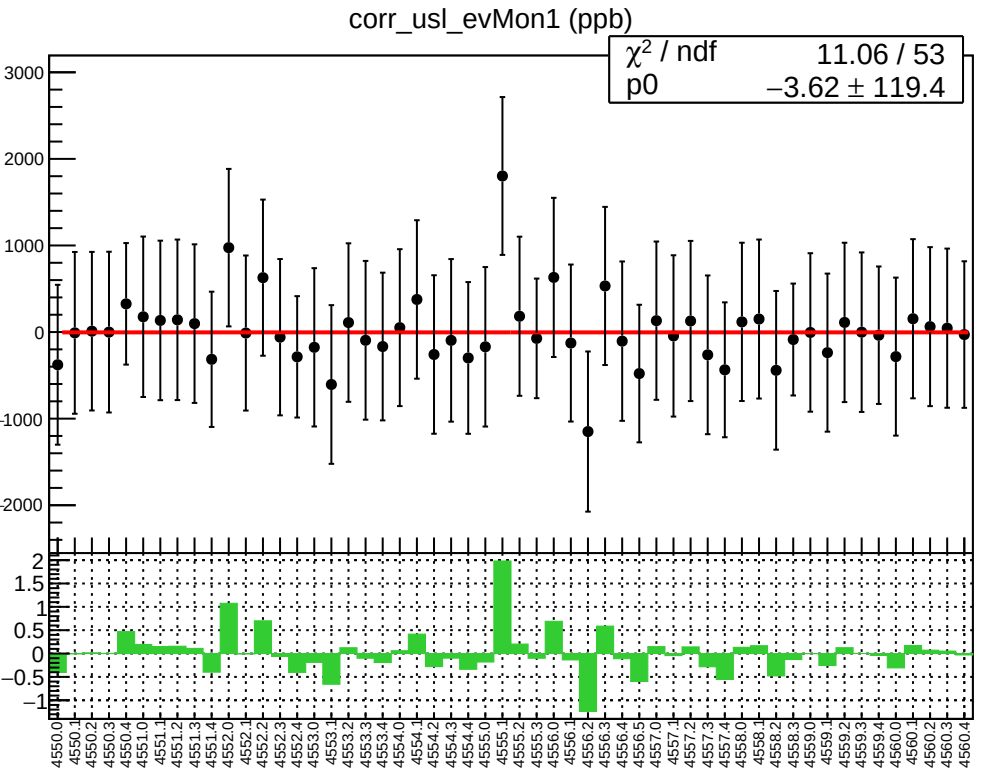

corr_us_dd_evMon11 (ppb)
χ² / ndf 57.12 / 53
p0 1.888 ± 4.587
100
50
0
−50
−100
3
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4
1D pull distribution
Mean 0.0003734 ± 0.14
Std Dev 1.029 ± 0.09897
Underflow 0
Overflow 0
χ² / ndf 8.264 / 7
Constant 14.77 ± 2.93
Mean −0.117 ± 0.098
Sigma 0.6595 ± 0.0880
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

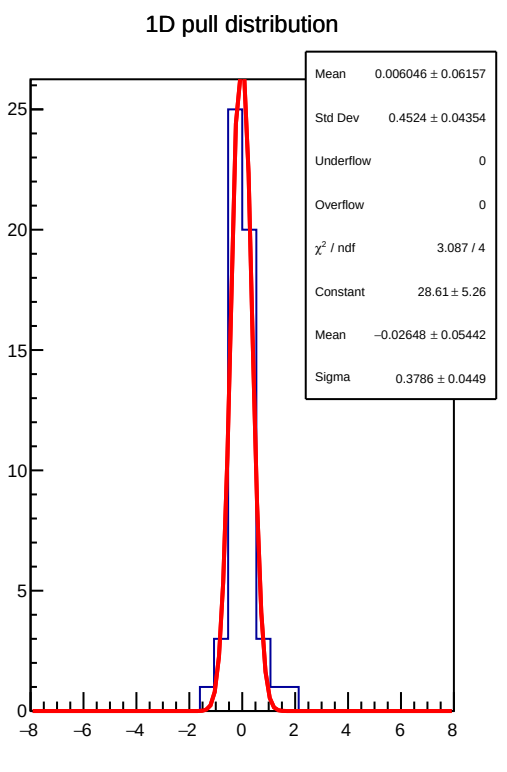

corr_us_dd_evMon11 RMS (ppm)
RMS (ppm)
5.5
5
4.5
4
3.5
3
2.5
2
1.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

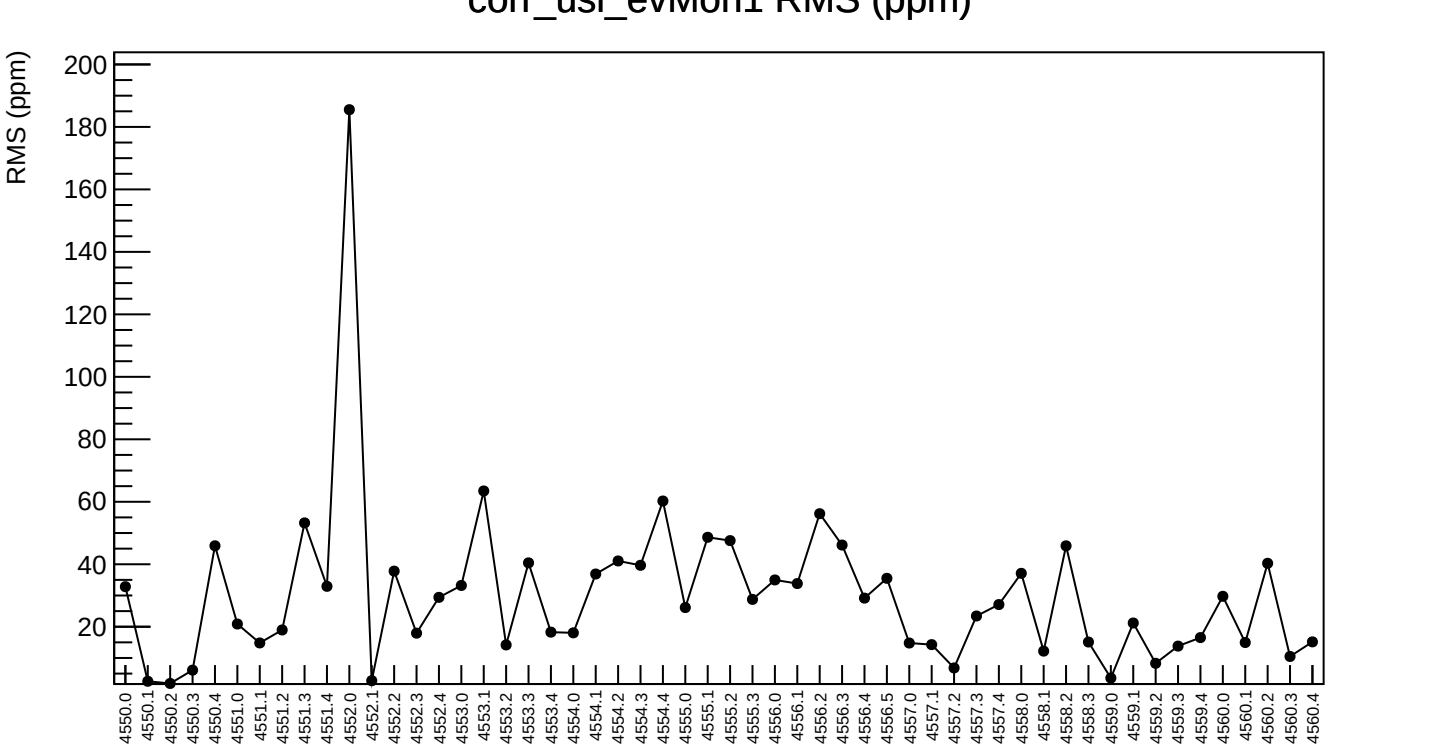

corr_usl_evMon0 (ppb)
χ² / ndf 127.5 / 53
p0 42.99 ± 701.8
20000
10000
0
−10000
−20000
−30000
5
4
3
2
1
0
−1
−2
−3
−4
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

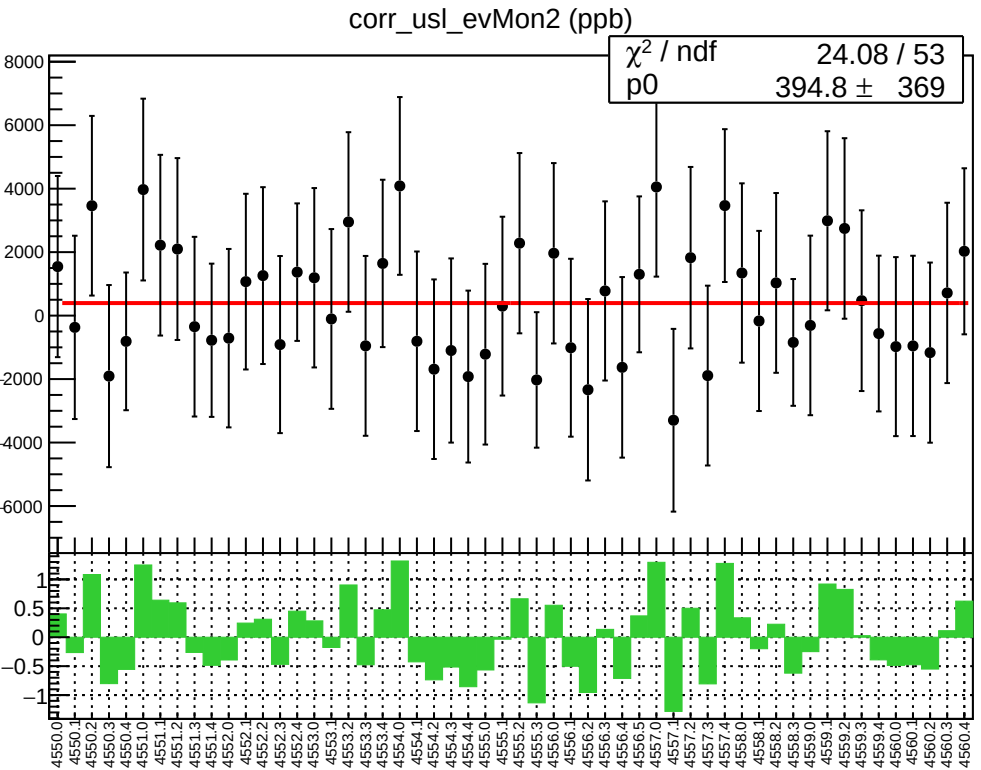

1D pull distribution
Mean −0.000234 ± 0.2091
Std Dev 1.537 ± 0.1479
Underflow 0
Overflow 0
χ² / ndf 13.23 / 10
Constant 4.897 ± 0.994
Mean 0.1068 ± 0.3734
Sigma 1.94 ± 0.37
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

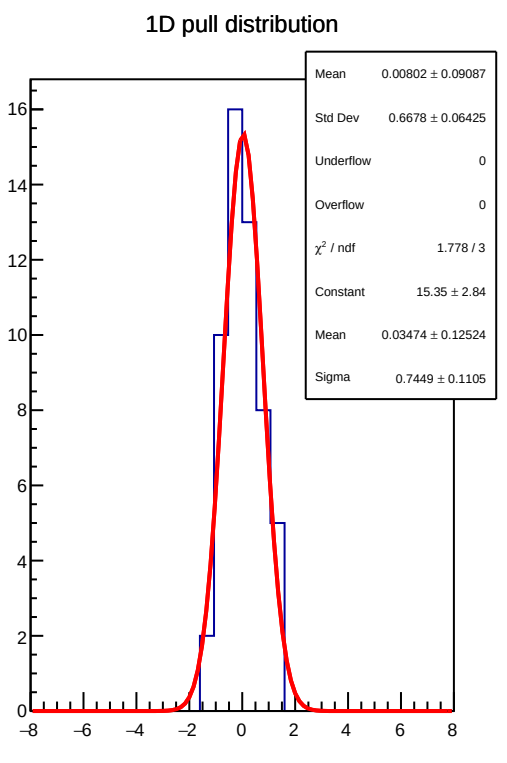

corr_usl_evMon0 RMS (ppm)
RMS (ppm)
640
660
680
700
720
740
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

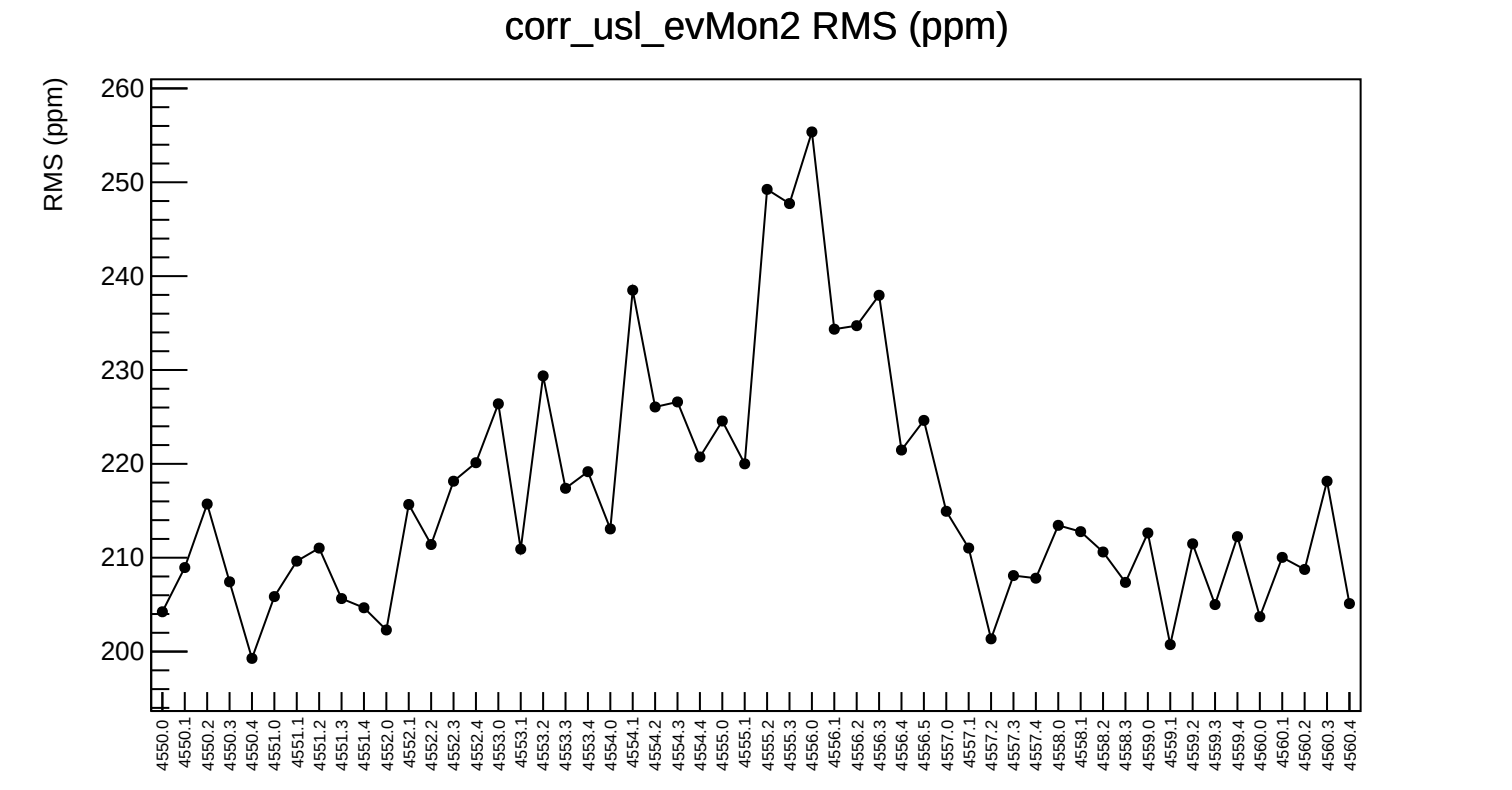

corr_usl_evMon1 (ppb)
χ² / ndf 11.06 / 53
p0 −3.62 ± 119.4
3000
2000
1000
0
-1000
-2000
2
1.5
1
0.5
0
−0.5
−1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

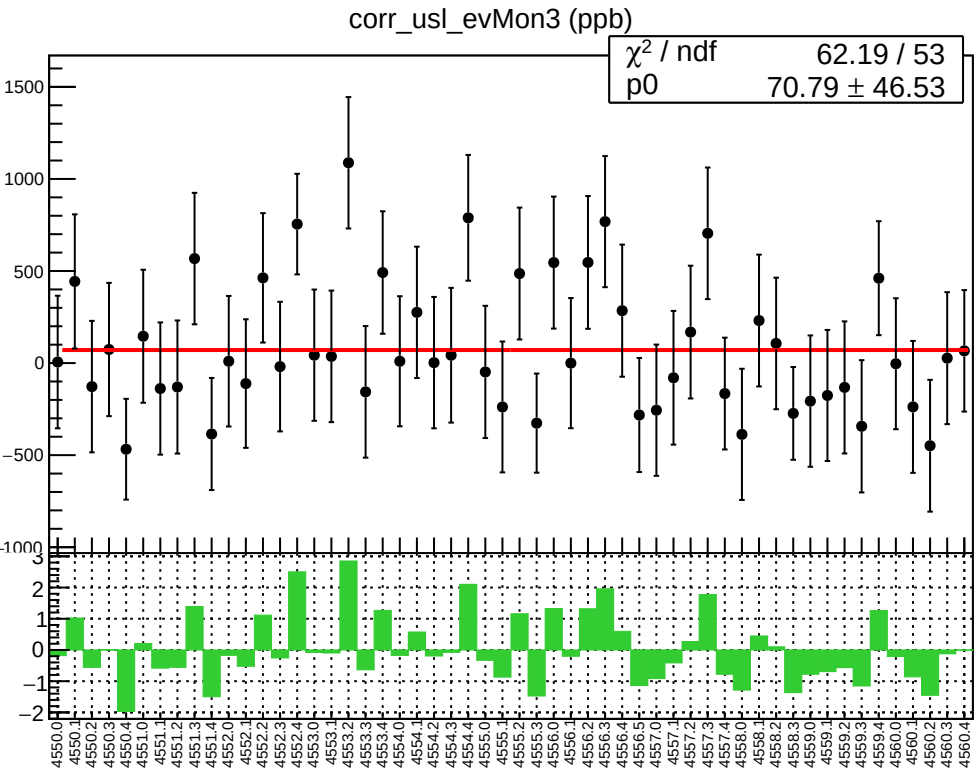

1D pull distribution
Mean 0.006046 ± 0.06157
Std Dev 0.4524 ± 0.04354
Underflow 0
Overflow 0
χ² / ndf 3.087 / 4
Constant 28.61 ± 5.26
Mean −0.02648 ± 0.05442
Sigma 0.3786 ± 0.0449
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

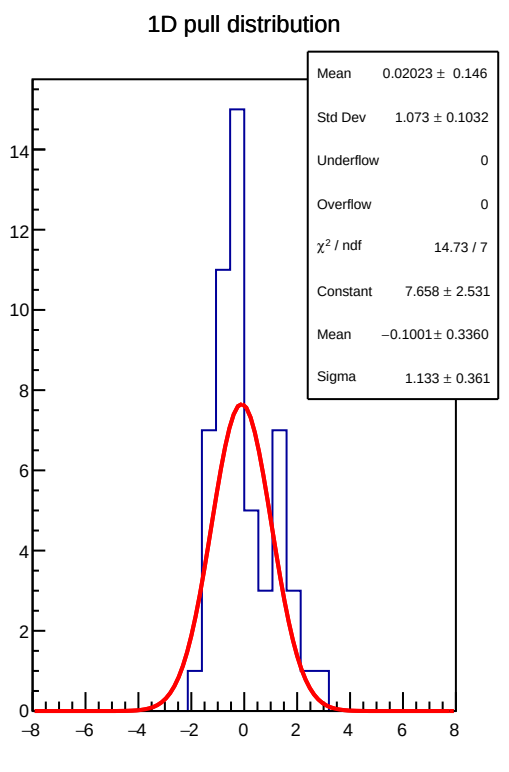

corr_usl_evMon1 RMS (ppm)
RMS (ppm)
200
180
160
140
120
100
80
60
40
20
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

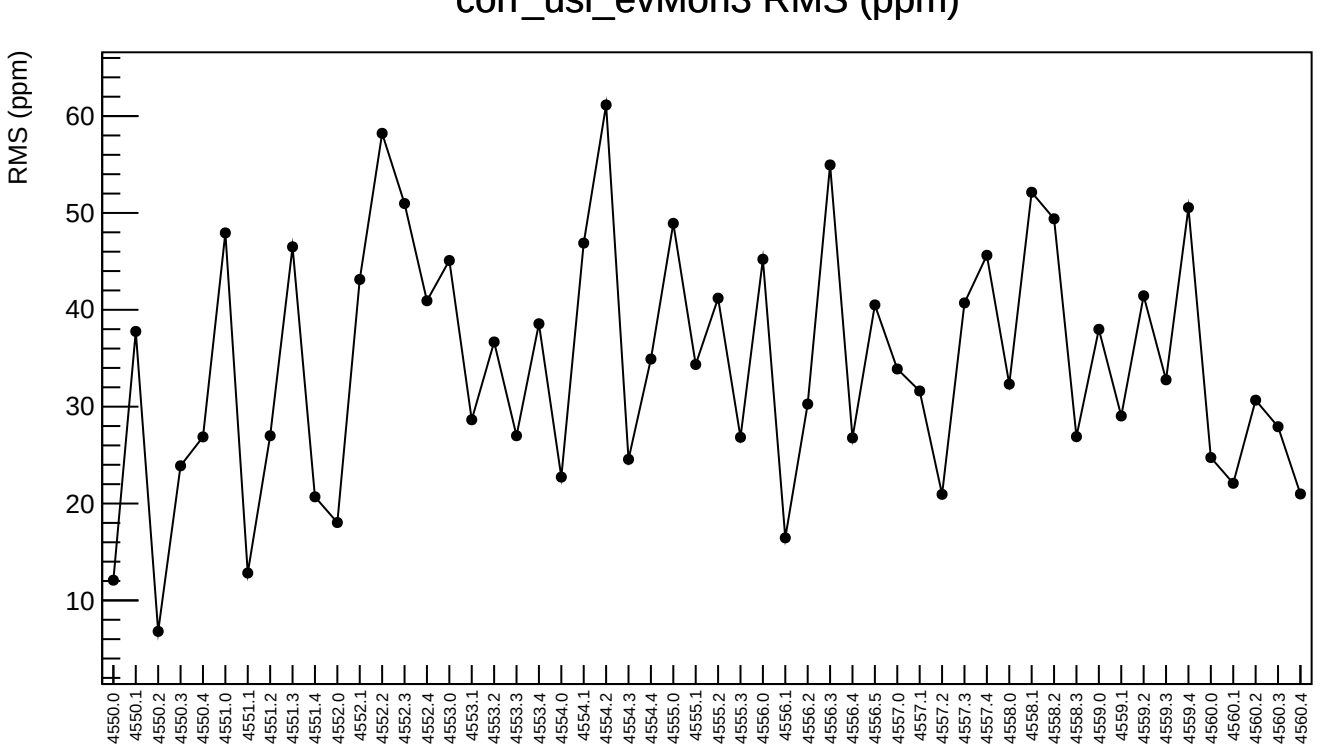

corr_usl_evMon2 (ppb)
χ² / ndf 24.08 / 53
p0 394.8 ± 369
8000
6000
4000
2000
0
-2000
-4000
-6000
pull
1
0.5
0
−0.5
−1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

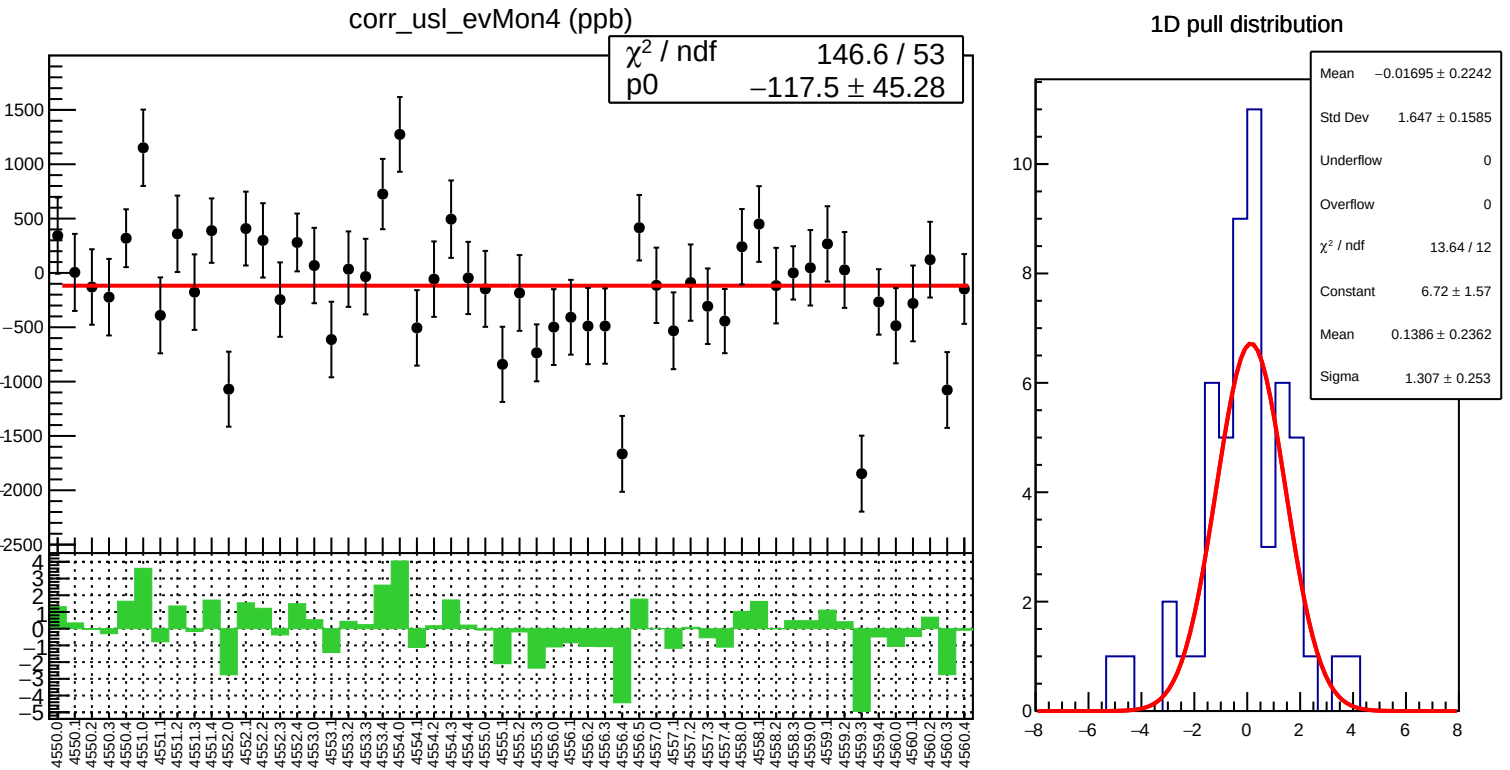

1D pull distribution
Mean 0.00802 ± 0.09087
Std Dev 0.6678 ± 0.06425
Underflow 0
Overflow 0
χ² / ndf 1.778 / 3
Constant 15.35 ± 2.84
Mean 0.03474 ± 0.12524
Sigma 0.7449 ± 0.1105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

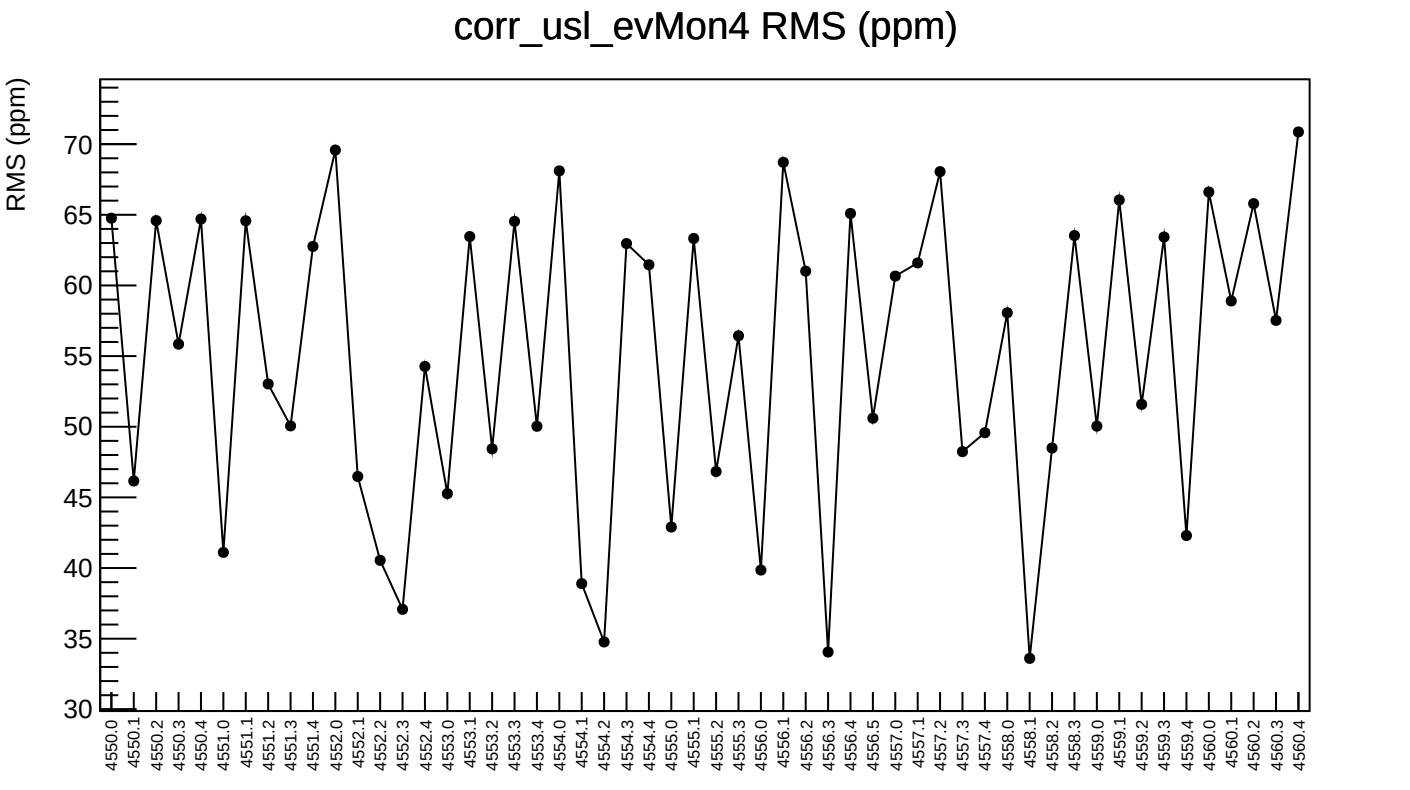

corr_usl_evMon2 RMS (ppm)
RMS (ppm)
260
250
240
230
220
210
200
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

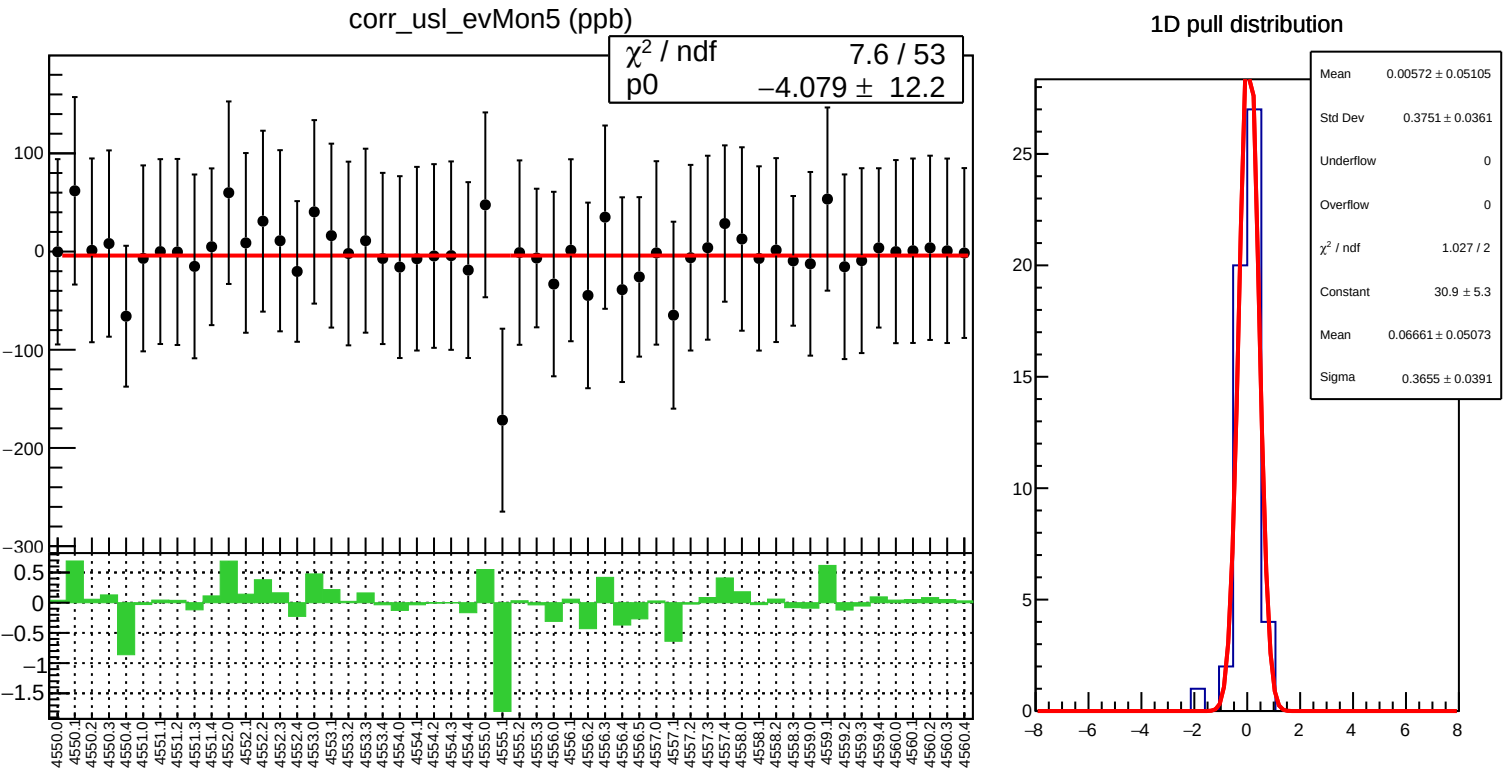

corr_usl_evMon3 (ppb)
χ² / ndf 62.19 / 53
p0 70.79 ± 46.53
1500
1000
500
0
−500
−1000
3
2
1
0
−1
−2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

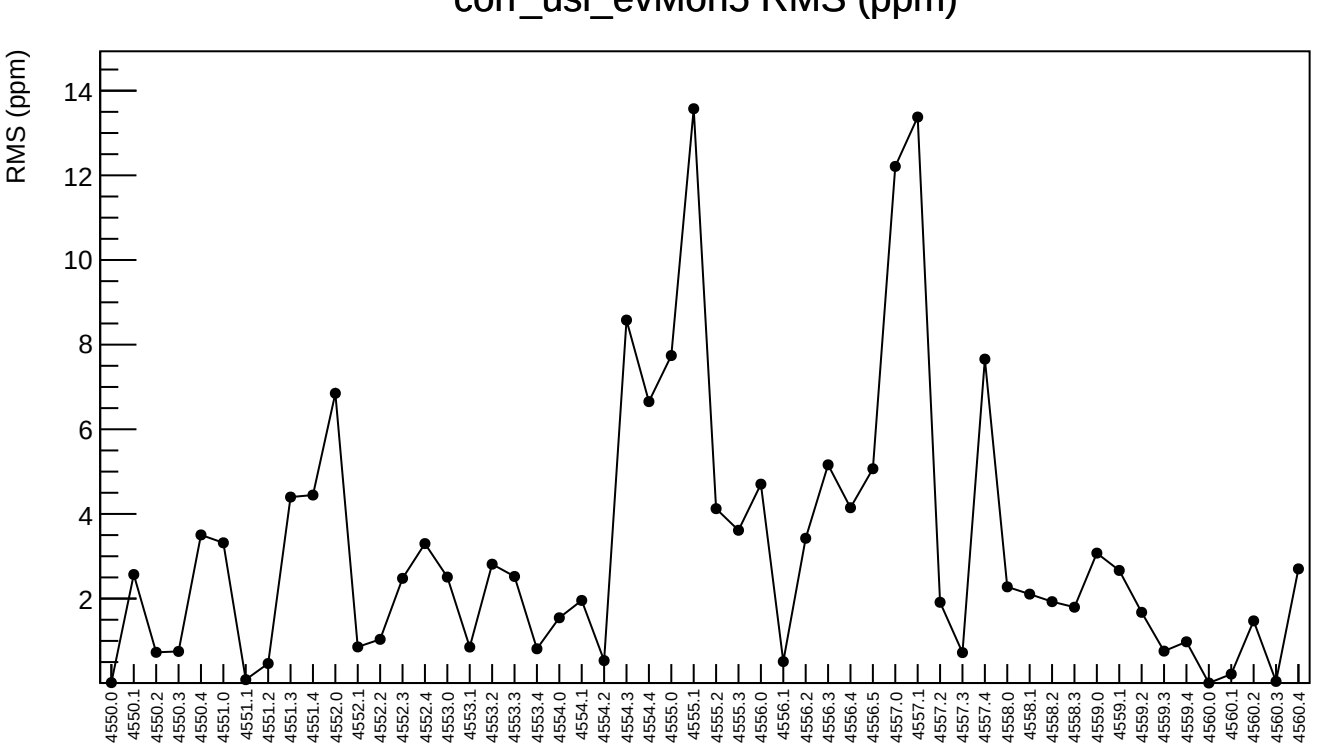

1D pull distribution
Mean 0.02023 ± 0.146
Std Dev 1.073 ± 0.1032
Underflow 0
Overflow 0
χ² / ndf 14.73 / 7
Constant 7.658 ± 2.531
Mean −0.1001 ± 0.3360
Sigma 1.133 ± 0.361
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

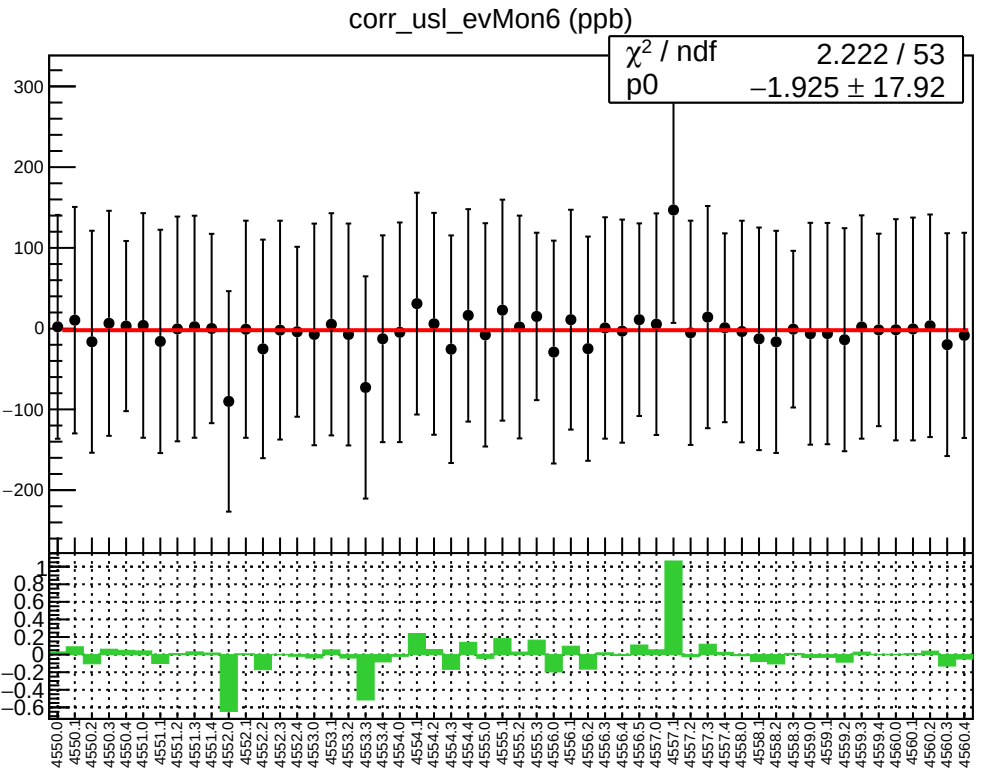

corr_usl_evMon3 RMS (ppm)
RMS (ppm)
10
20
30
40
50
60
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

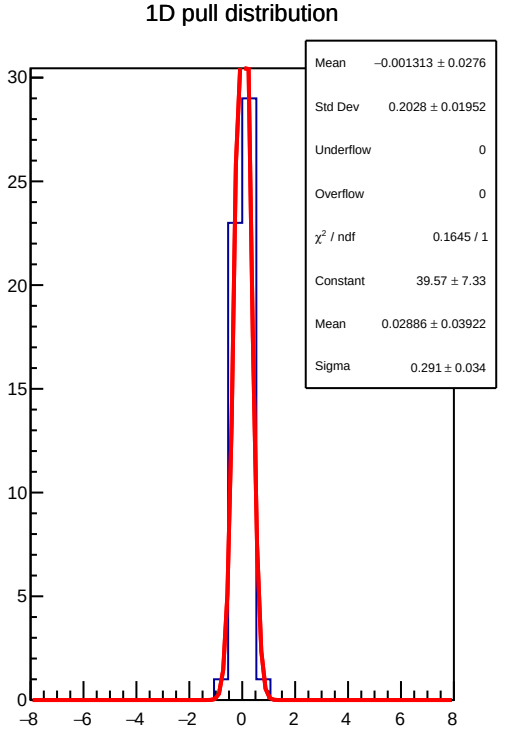

corr_usl_evMon4 (ppb)
χ² / ndf 146.6 / 53
p0 −117.5 ± 45.28
1D pull distribution
Mean −0.01695 ± 0.2242
Std Dev 1.647 ± 0.1585
Underflow 0
Overflow 0
χ² / ndf 13.64 / 12
Constant 6.72 ± 1.57
Mean 0.1386 ± 0.2362
Sigma 1.307 ± 0.253

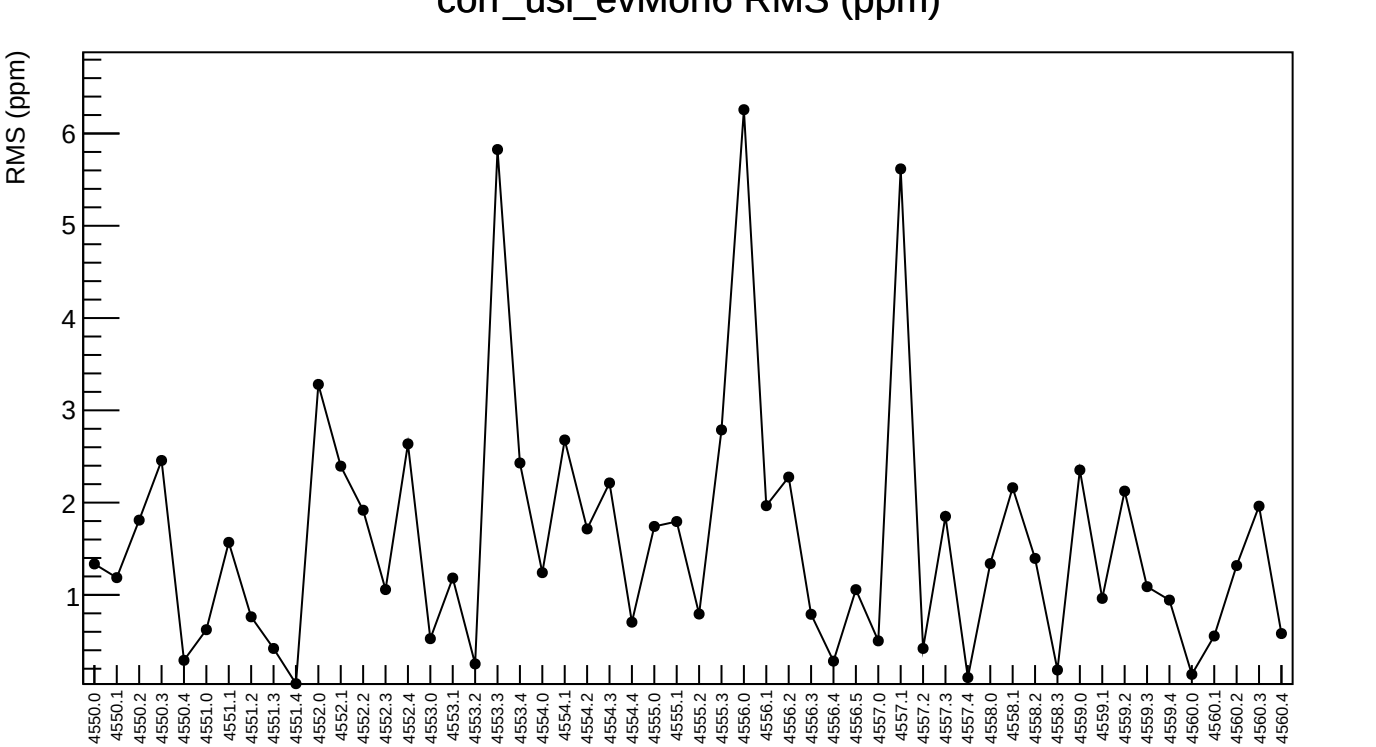

corr_usl_evMon4 RMS (ppm)
RMS (ppm)
70
65
60
55
50
45
40
35
30
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

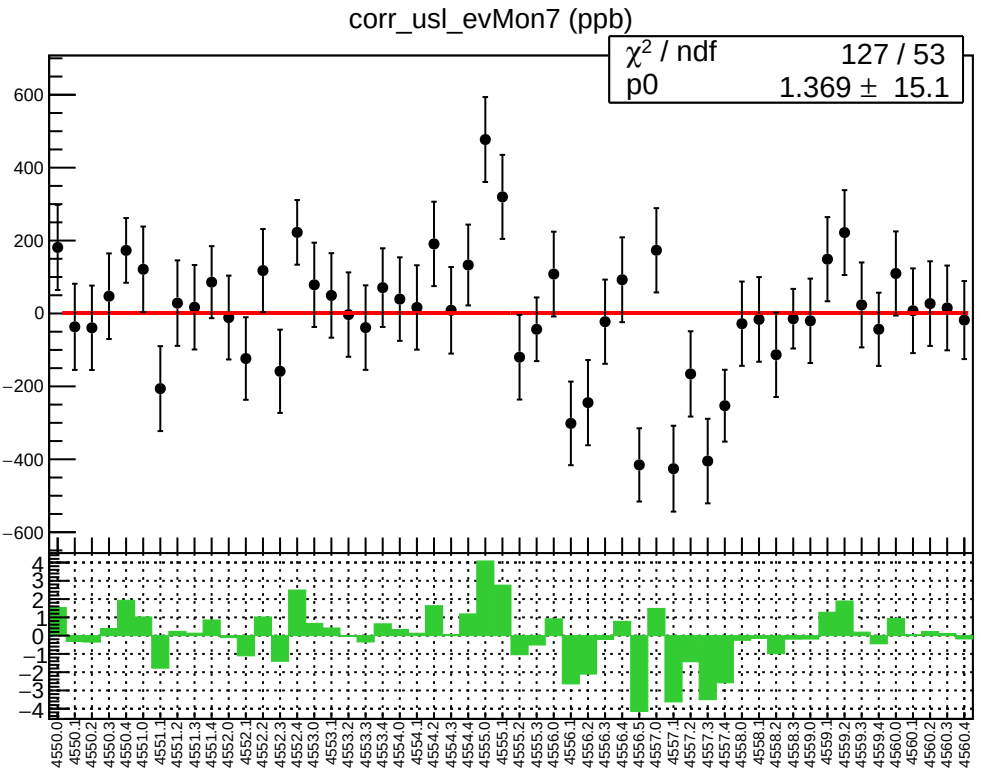

corr_usl_evMon5 (ppb)
χ² / ndf 7.6 / 53
p0 −4.079 ± 12.2
100
0
−100
−200
−300
0.5
0
−0.5
−1
−1.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4
1D pull distribution
Mean 0.00572 ± 0.05105
Std Dev 0.3751 ± 0.0361
Underflow 0
Overflow 0
χ² / ndf 1.027 / 2
Constant 30.9 ± 5.3
Mean 0.06661 ± 0.05073
Sigma 0.3655 ± 0.0391
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

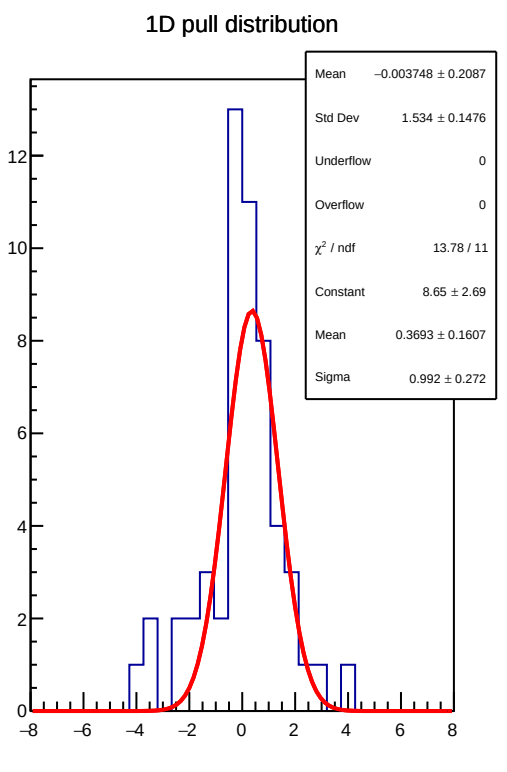

corr_usl_evMon5 RMS (ppm)
RMS (ppm)
14
12
10
8
6
4
2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

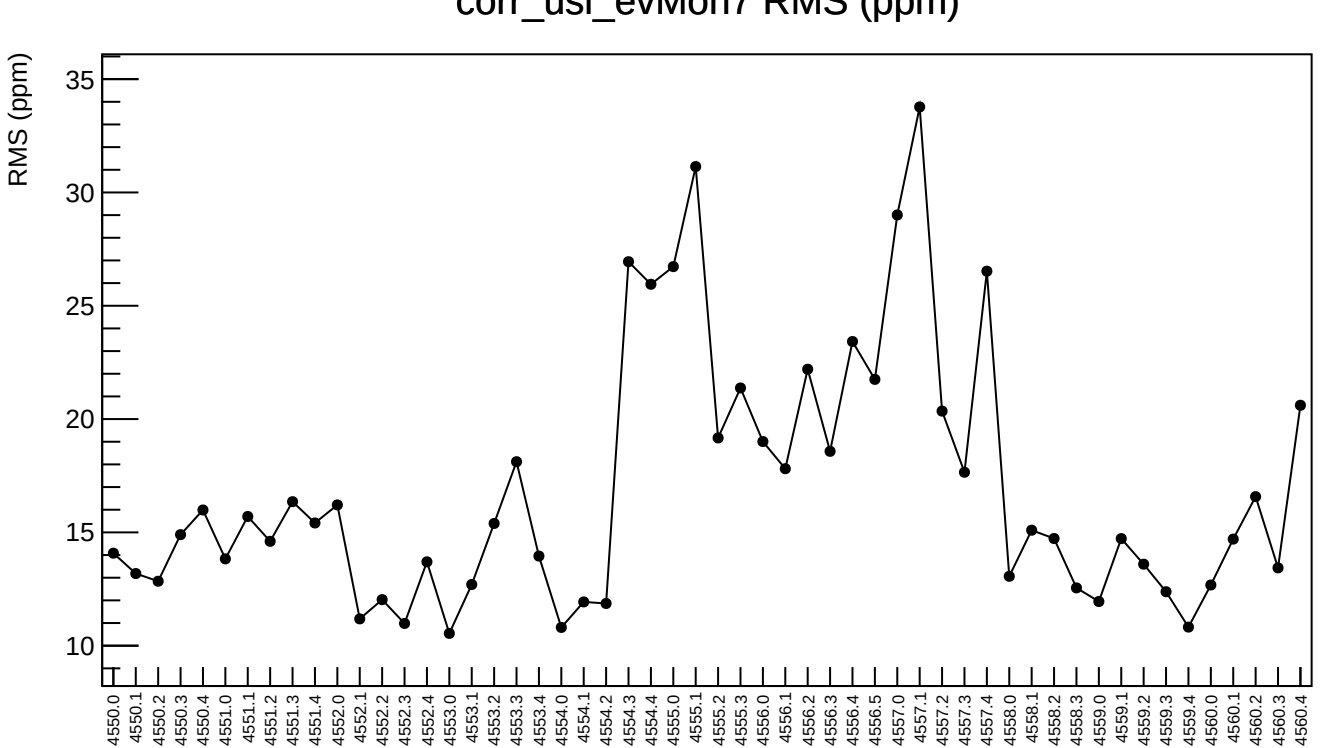

corr_usl_evMon6 (ppb)
χ² / ndf 2.222 / 53
p0 −1.925 ± 17.92
300
200
100
0
−100
−200
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

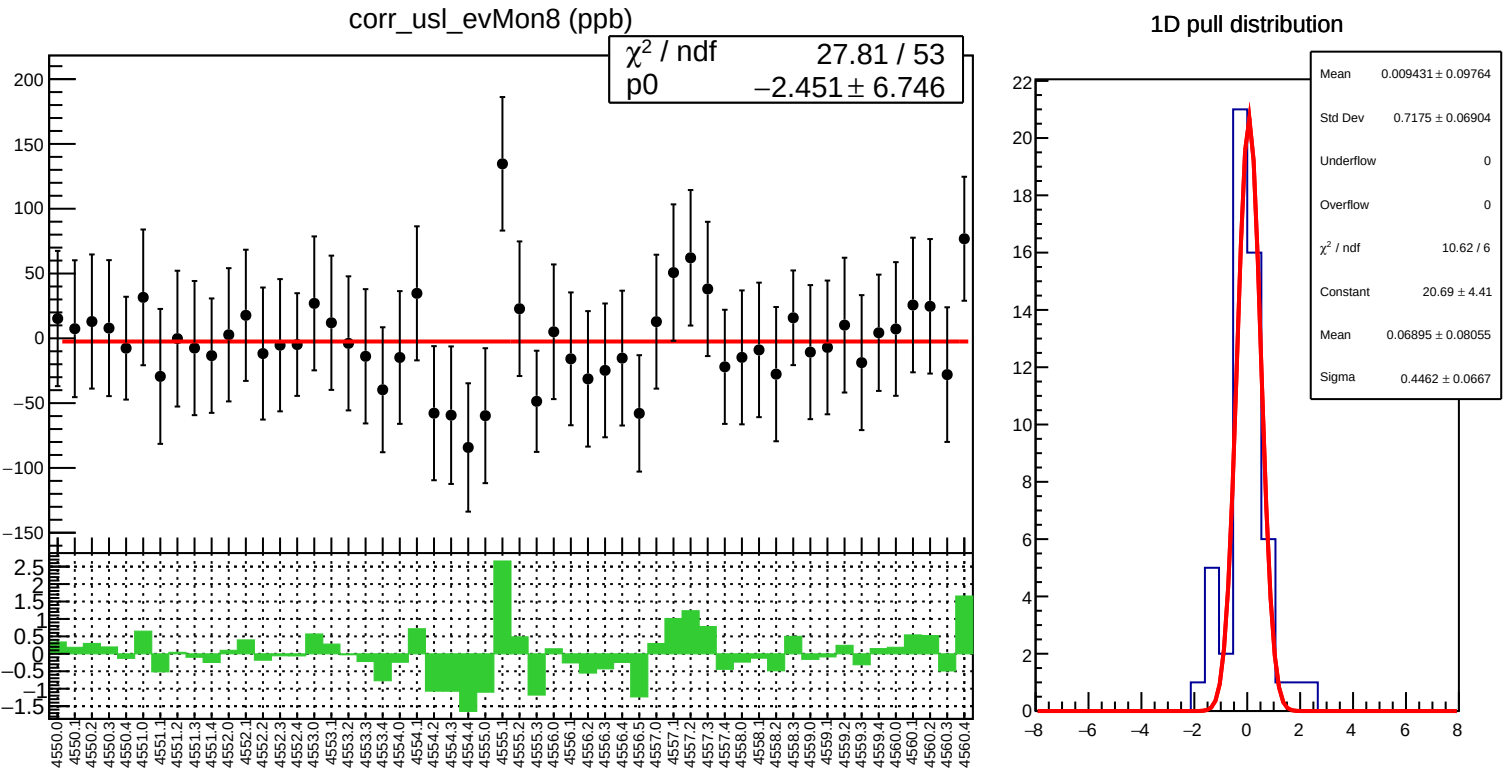

1D pull distribution
Mean −0.001313 ± 0.0276
Std Dev 0.2028 ± 0.01952
Underflow 0
Overflow 0
χ² / ndf 0.1645 / 1
Constant 39.57 ± 7.33
Mean 0.02886 ± 0.03922
Sigma 0.291 ± 0.034
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

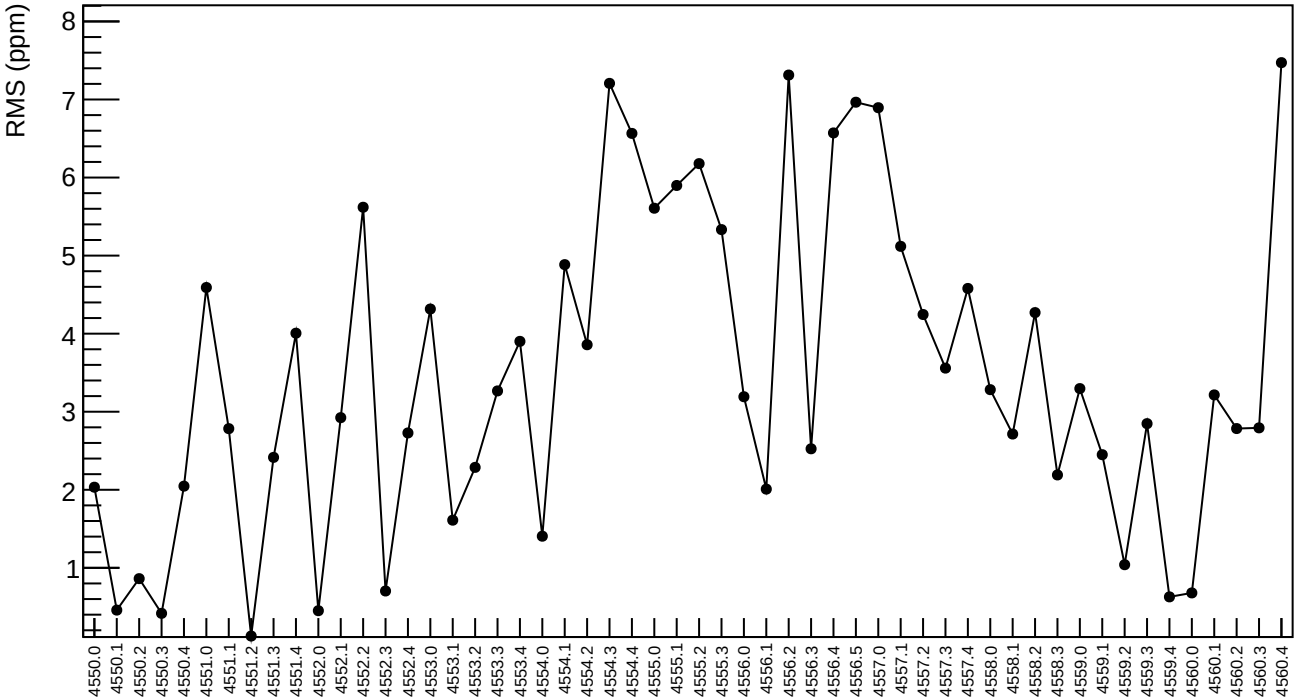

corr_usl_evMon6 RMS (ppm)
RMS (ppm)
1
2
3
4
5
6
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

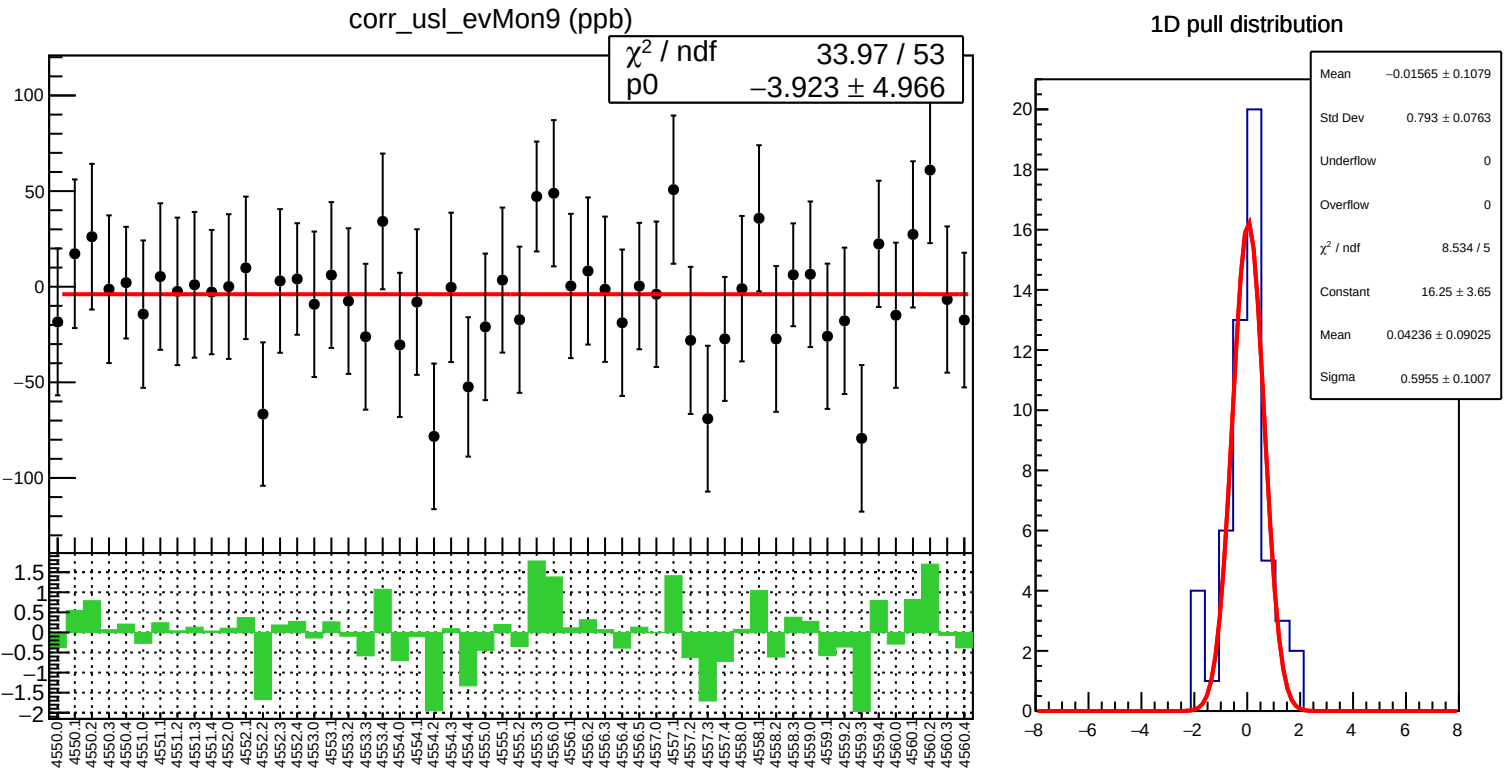

corr_usl_evMon7 (ppb)
χ² / ndf 127 / 53
p0 1.369 ± 15.1

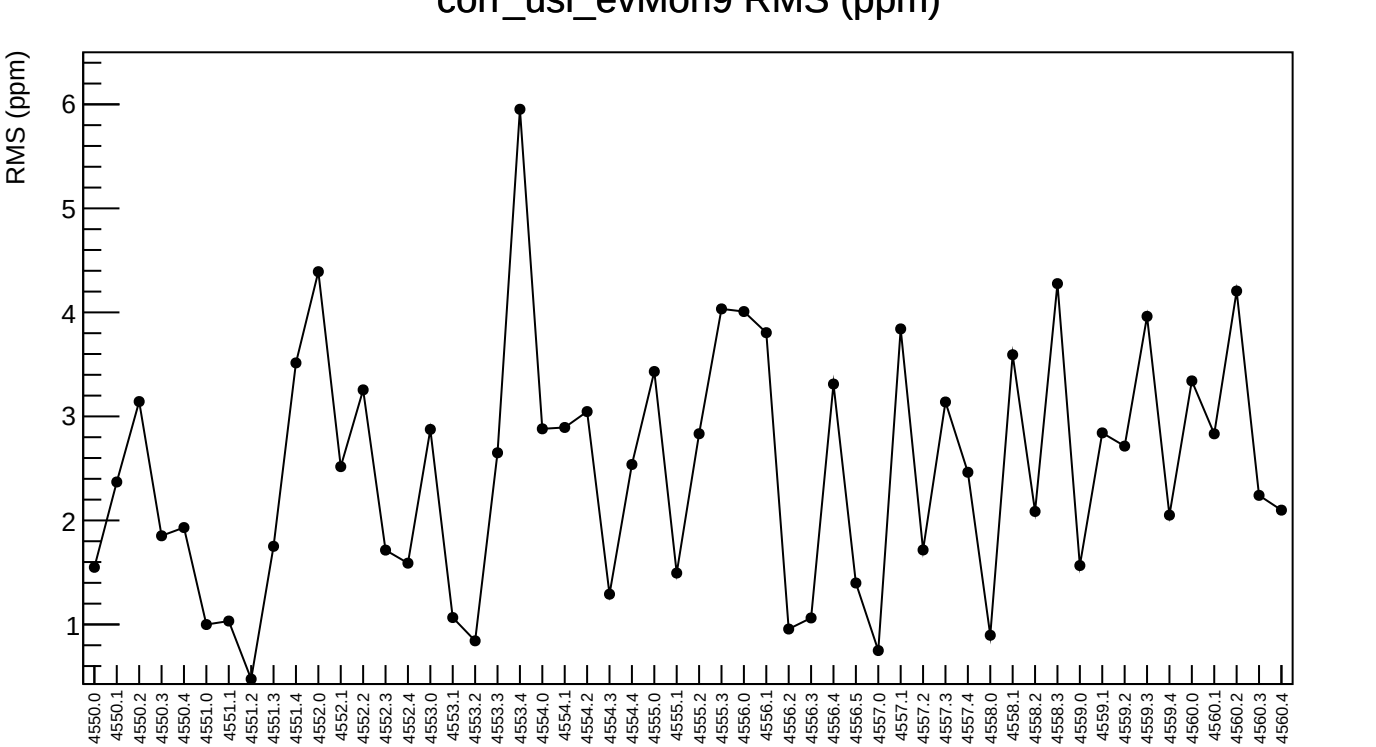

1D pull distribution
Mean −0.003748 ± 0.2087
Std Dev 1.534 ± 0.1476
Underflow 0
Overflow 0
χ² / ndf 13.78 / 11
Constant 8.65 ± 2.69
Mean 0.3693 ± 0.1607
Sigma 0.992 ± 0.272

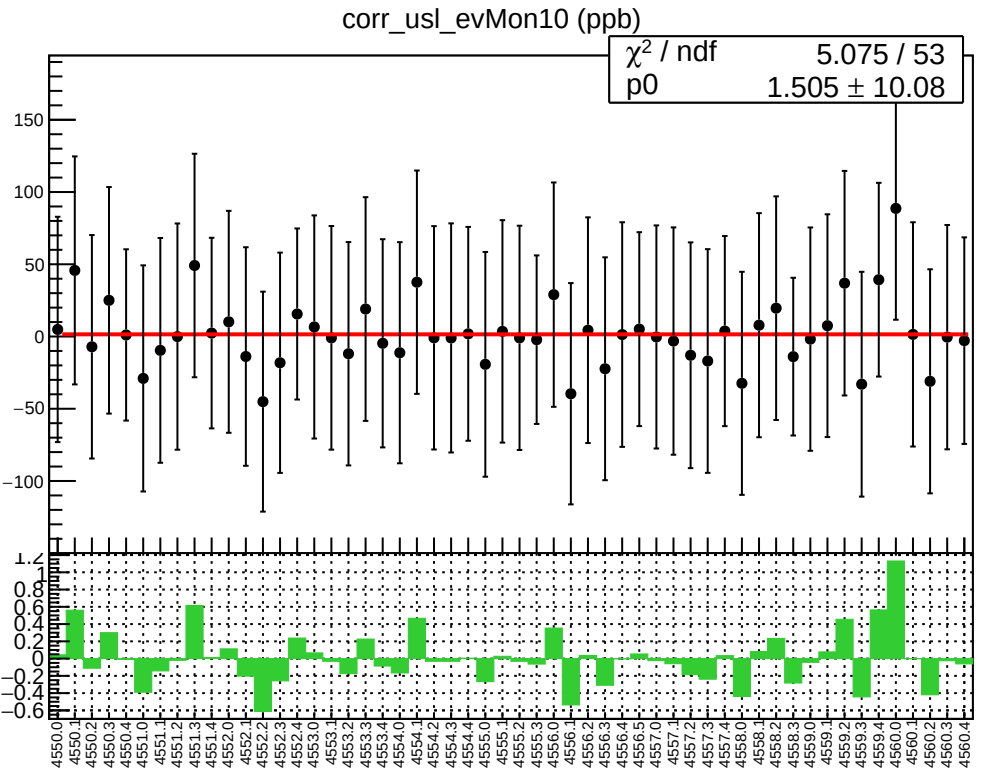

corr_usl_evMon7 RMS (ppm)
RMS (ppm)
35
30
25
20
15
10
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

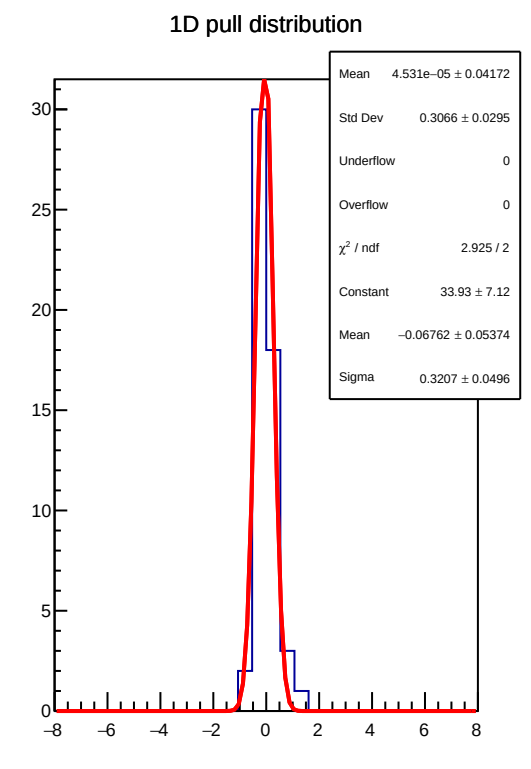

corr_usl_evMon8 (ppb)
χ² / ndf 27.81 / 53
p0 −2.451 ± 6.746
1D pull distribution
Mean 0.009431 ± 0.09764
Std Dev 0.7175 ± 0.06904
Underflow 0
Overflow 0
χ² / ndf 10.62 / 6
Constant 20.69 ± 4.41
Mean 0.06895 ± 0.08055
Sigma 0.4462 ± 0.0667

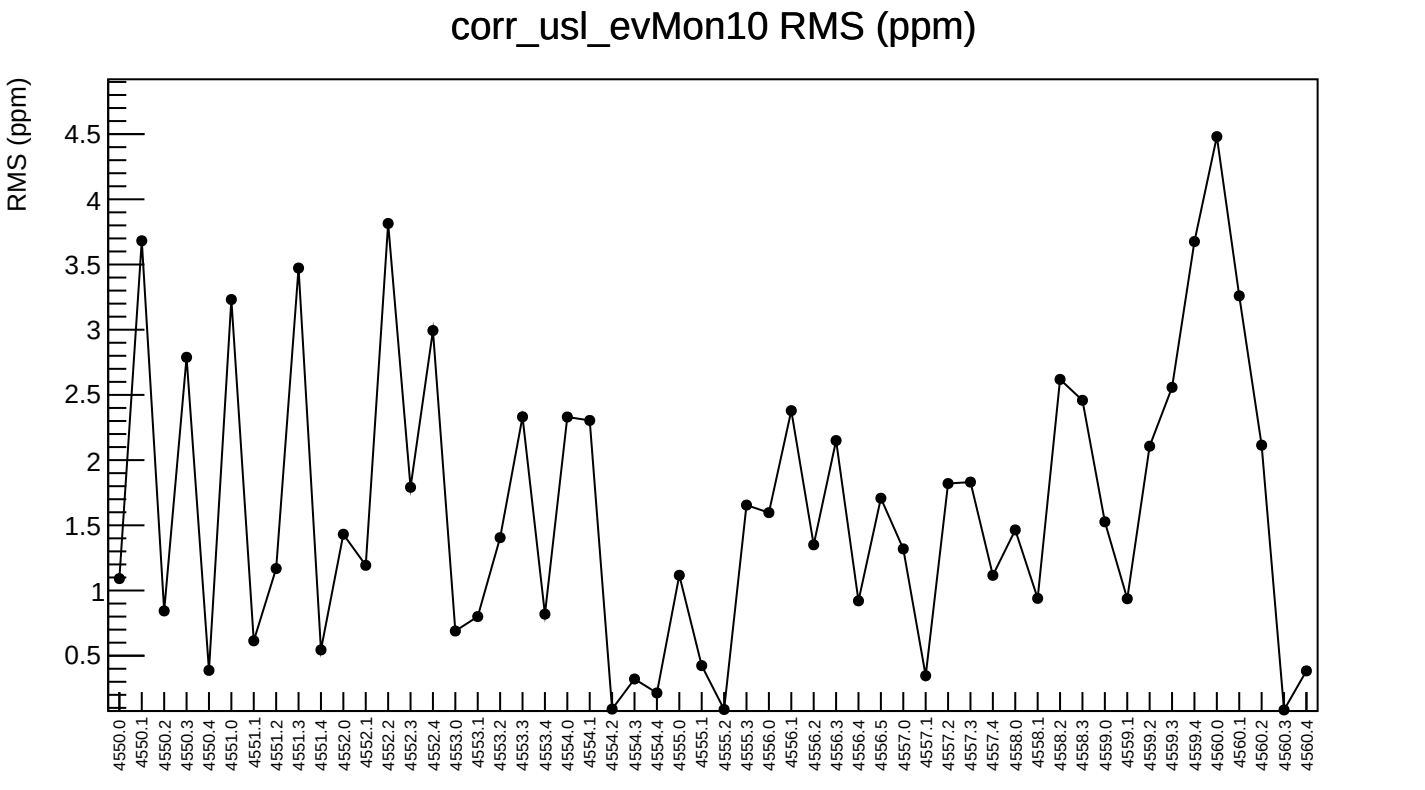

corr_usl_evMon8 RMS (ppm)
RMS (ppm)
8
7
6
5
4
3
2
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

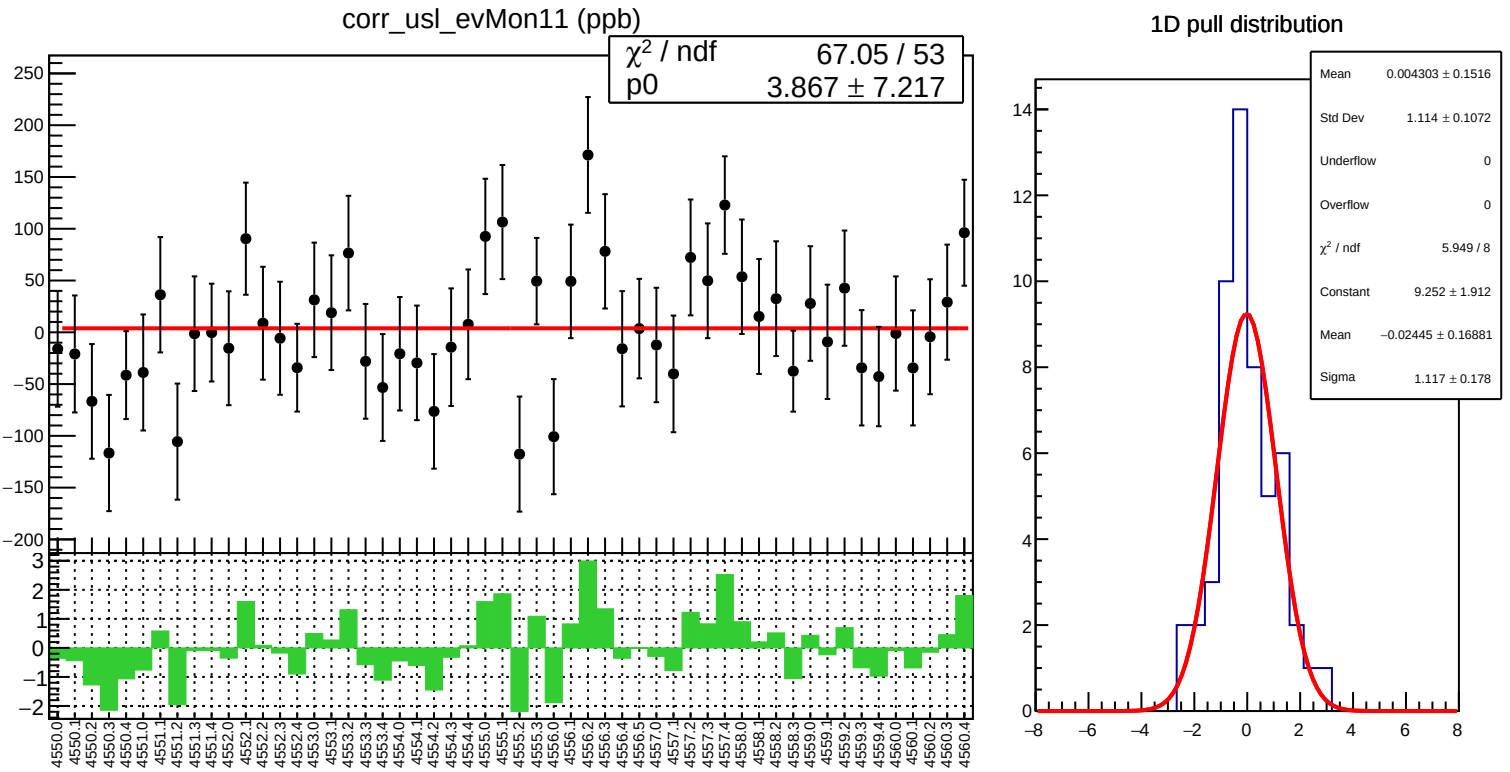

corr_usl_evMon9 (ppb)
χ² / ndf 33.97 / 53
p0 −3.923 ± 4.966
1D pull distribution
Mean −0.01565 ± 0.1079
Std Dev 0.793 ± 0.0763
Underflow 0
Overflow 0
χ² / ndf 8.534 / 5
Constant 16.25 ± 3.65
Mean 0.04236 ± 0.09025
Sigma 0.5955 ± 0.1007

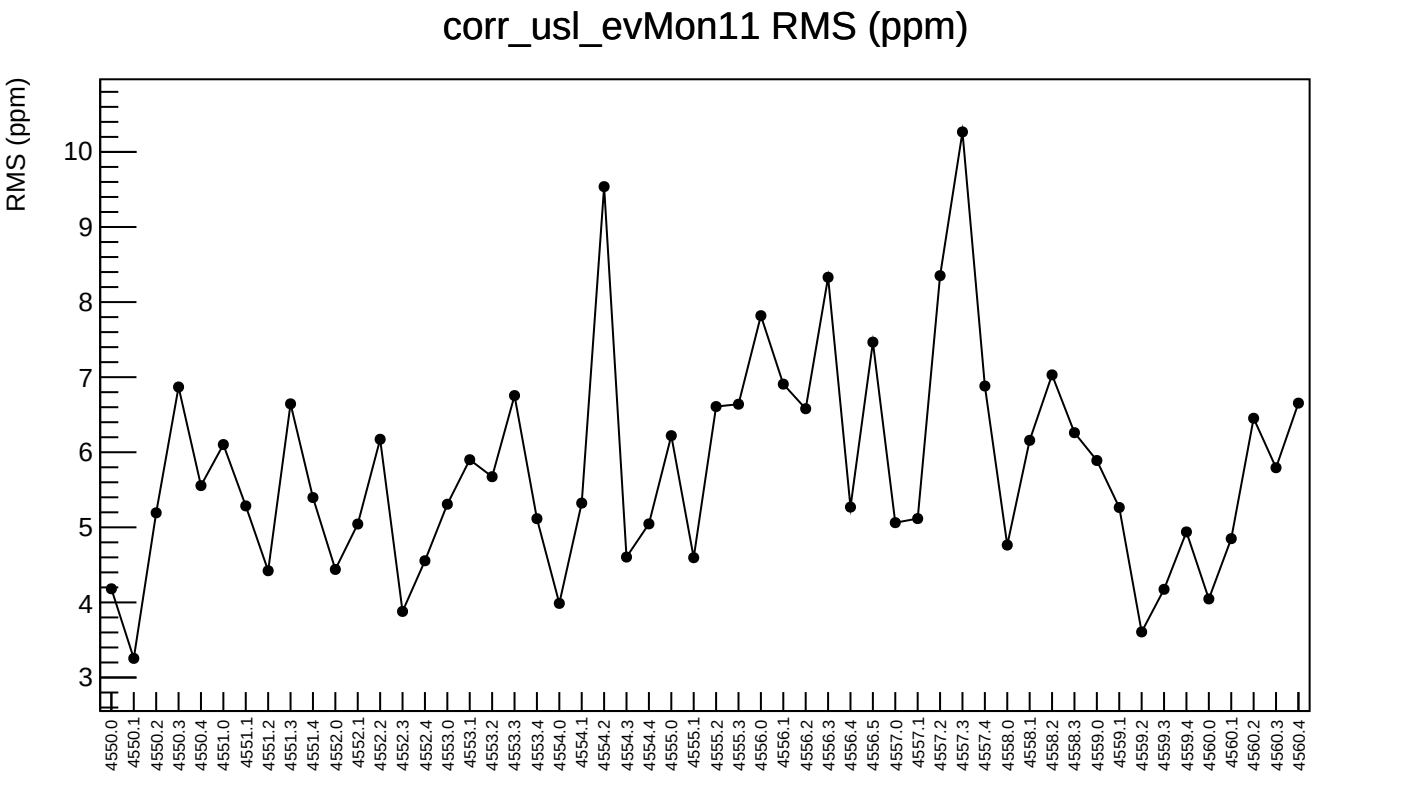

corr_usl_evMon9 RMS (ppm)
RMS (ppm)
1
2
3
4
5
6
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

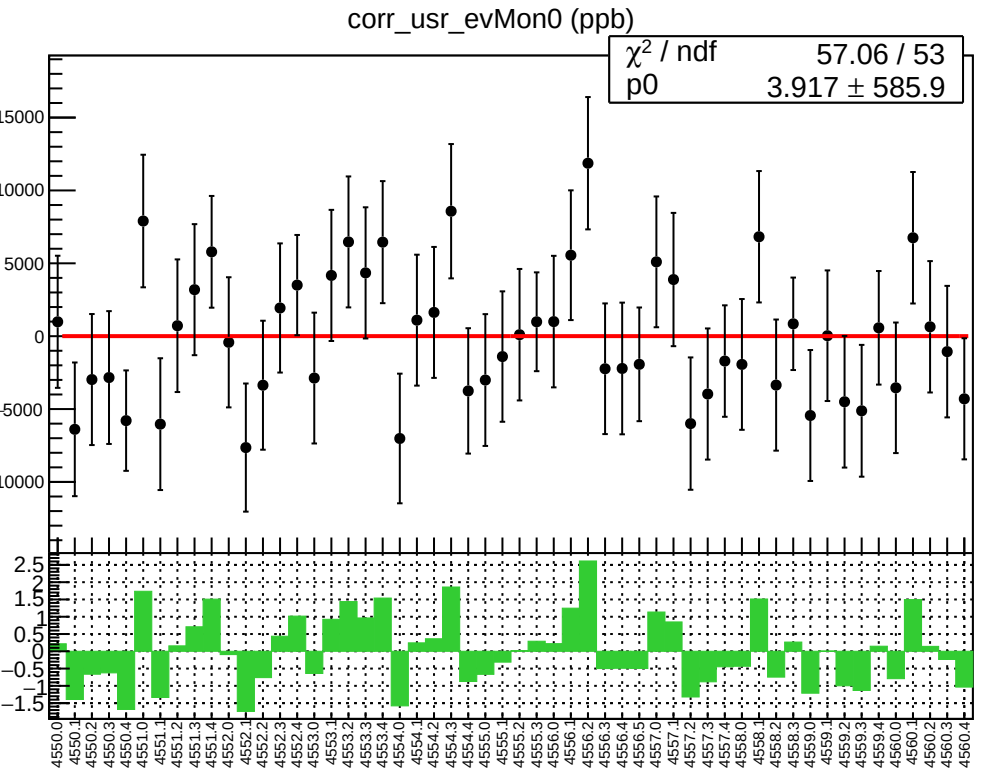

corr_usl_evMon10 (ppb)
χ² / ndf 5.075 / 53
p0 1.505 ± 10.08

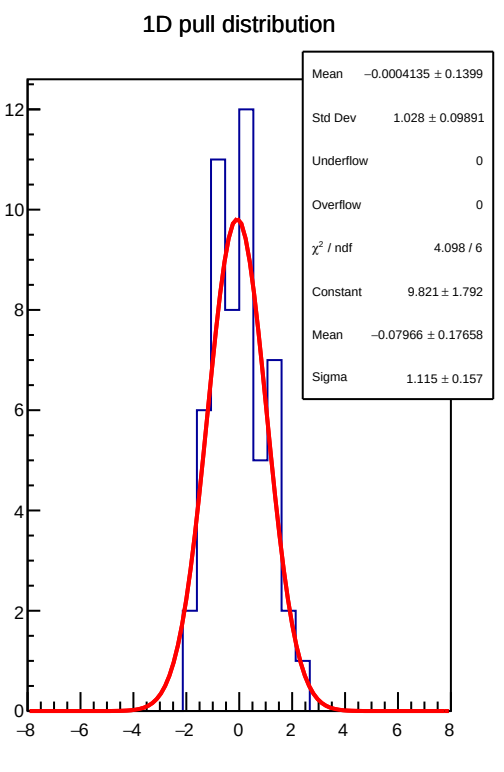

1D pull distribution
Mean 4.531e−05 ± 0.04172
Std Dev 0.3066 ± 0.0295
Underflow 0
Overflow 0
χ² / ndf 2.925 / 2
Constant 33.93 ± 7.12
Mean −0.06762 ± 0.05374
Sigma 0.3207 ± 0.0496

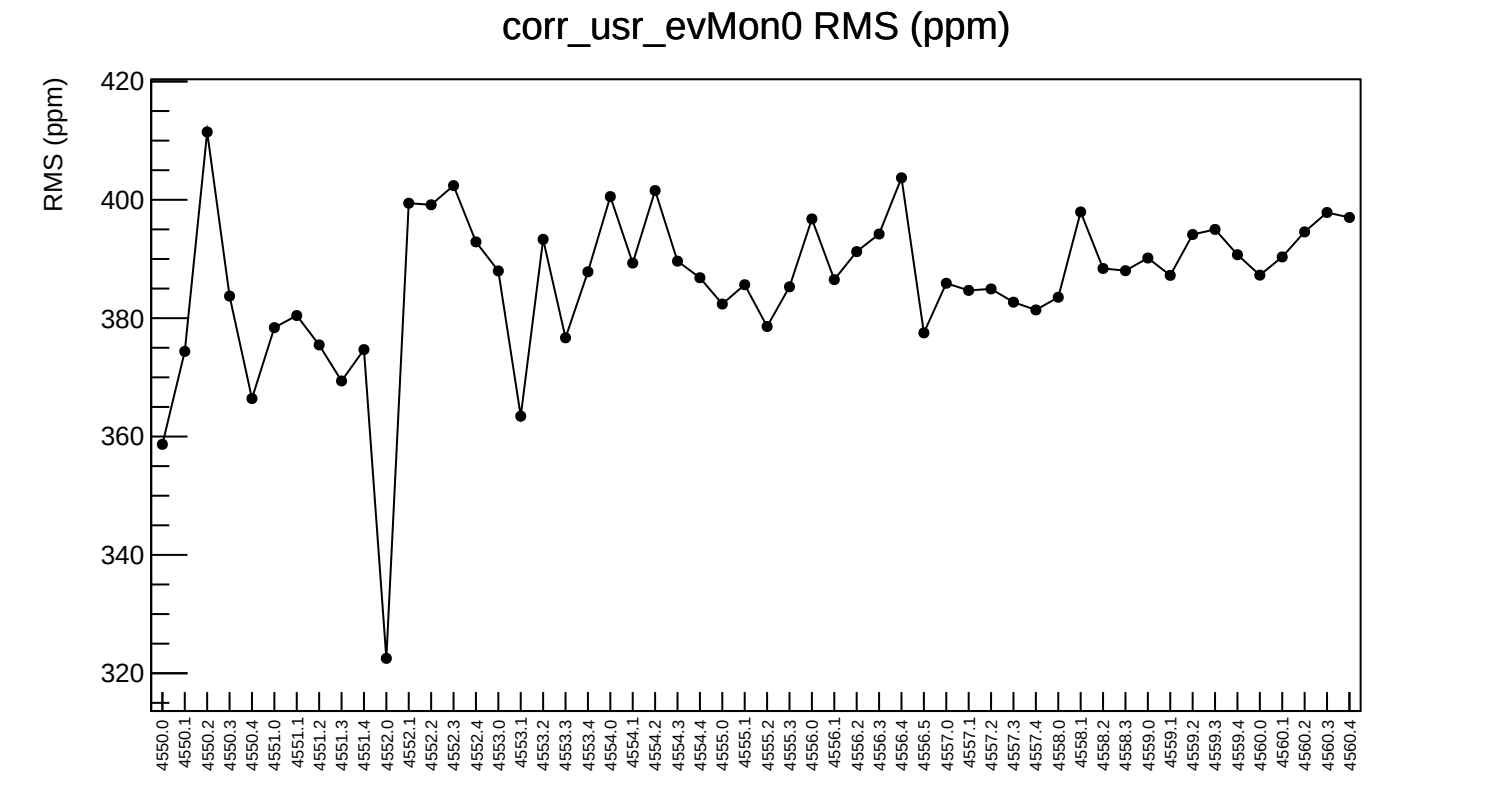

corr_usl_evMon10 RMS (ppm)
RMS (ppm)
0.5
1
1.5
2
2.5
3
3.5
4
4.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

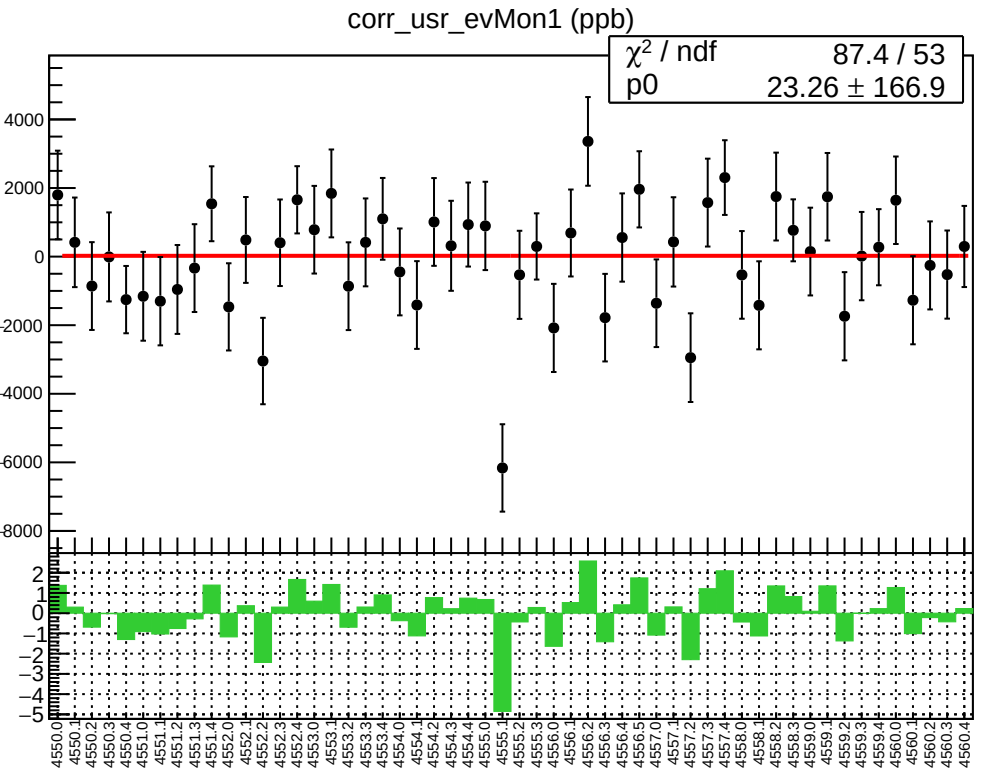

corr_usl_evMon11 (ppb)
χ² / ndf 67.05 / 53
p0 3.867 ± 7.217
1D pull distribution
Mean 0.004303 ± 0.1516
Std Dev 1.114 ± 0.1072
Underflow 0
Overflow 0
χ² / ndf 5.949 / 8
Constant 9.252 ± 1.912
Mean −0.02445 ± 0.16881
Sigma 1.117 ± 0.178

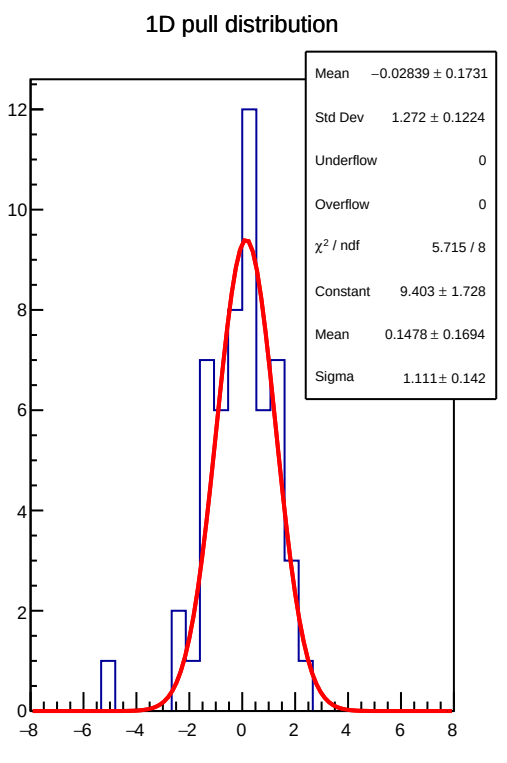

corr_usl_evMon11 RMS (ppm)
RMS (ppm)
10
9
8
7
6
5
4
3
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

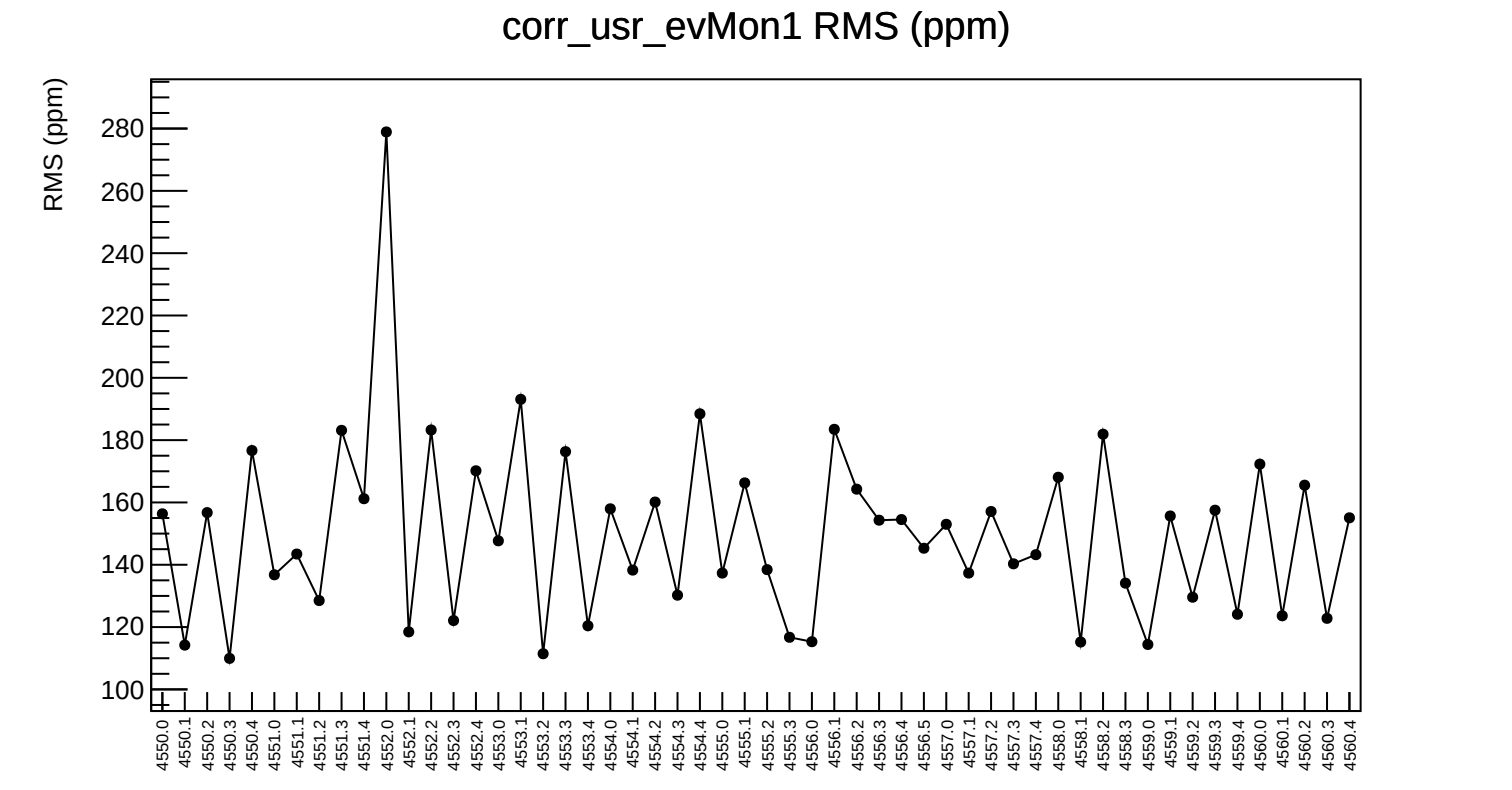

corr_usr_evMon0 (ppb)
χ² / ndf 57.06 / 53
p0 3.917 ± 585.9
15000
10000
5000
0
-5000
-10000
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

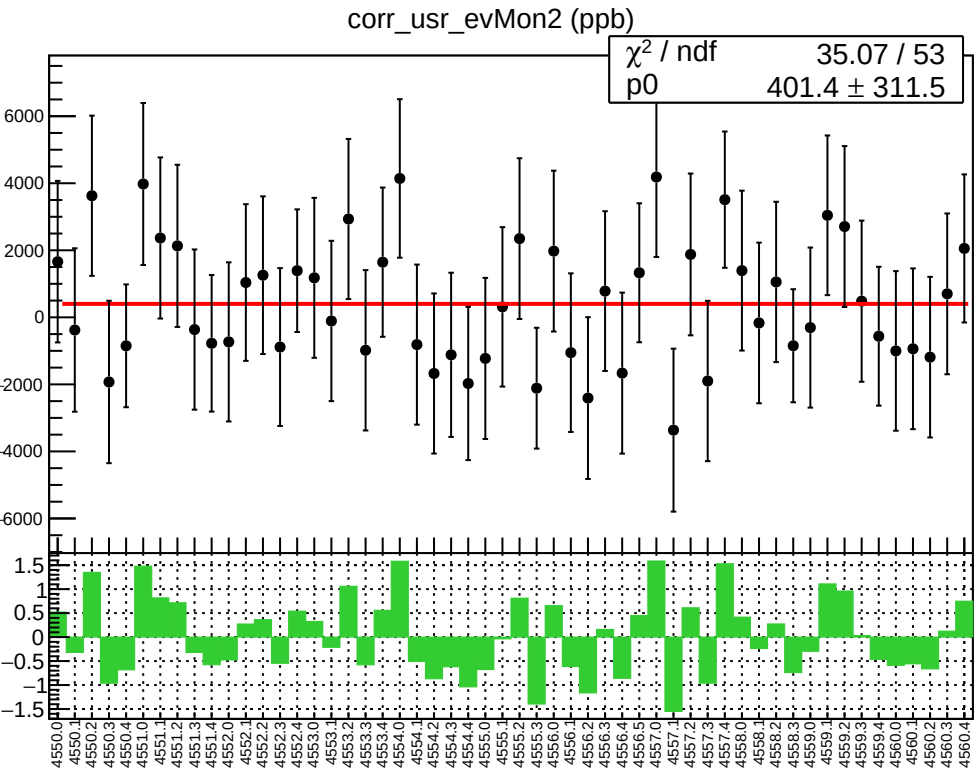

1D pull distribution
Mean −0.0004135 ± 0.1399
Std Dev 1.028 ± 0.09891
Underflow 0
Overflow 0
χ² / ndf 4.098 / 6
Constant 9.821 ± 1.792
Mean −0.07966 ± 0.17658
Sigma 1.115 ± 0.157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

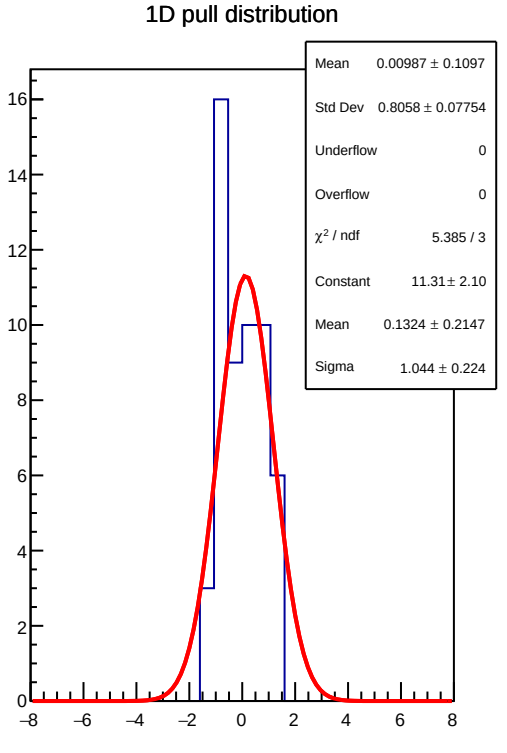

corr_usr_evMon0 RMS (ppm)
RMS (ppm)
420
400
380
360
340
320
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

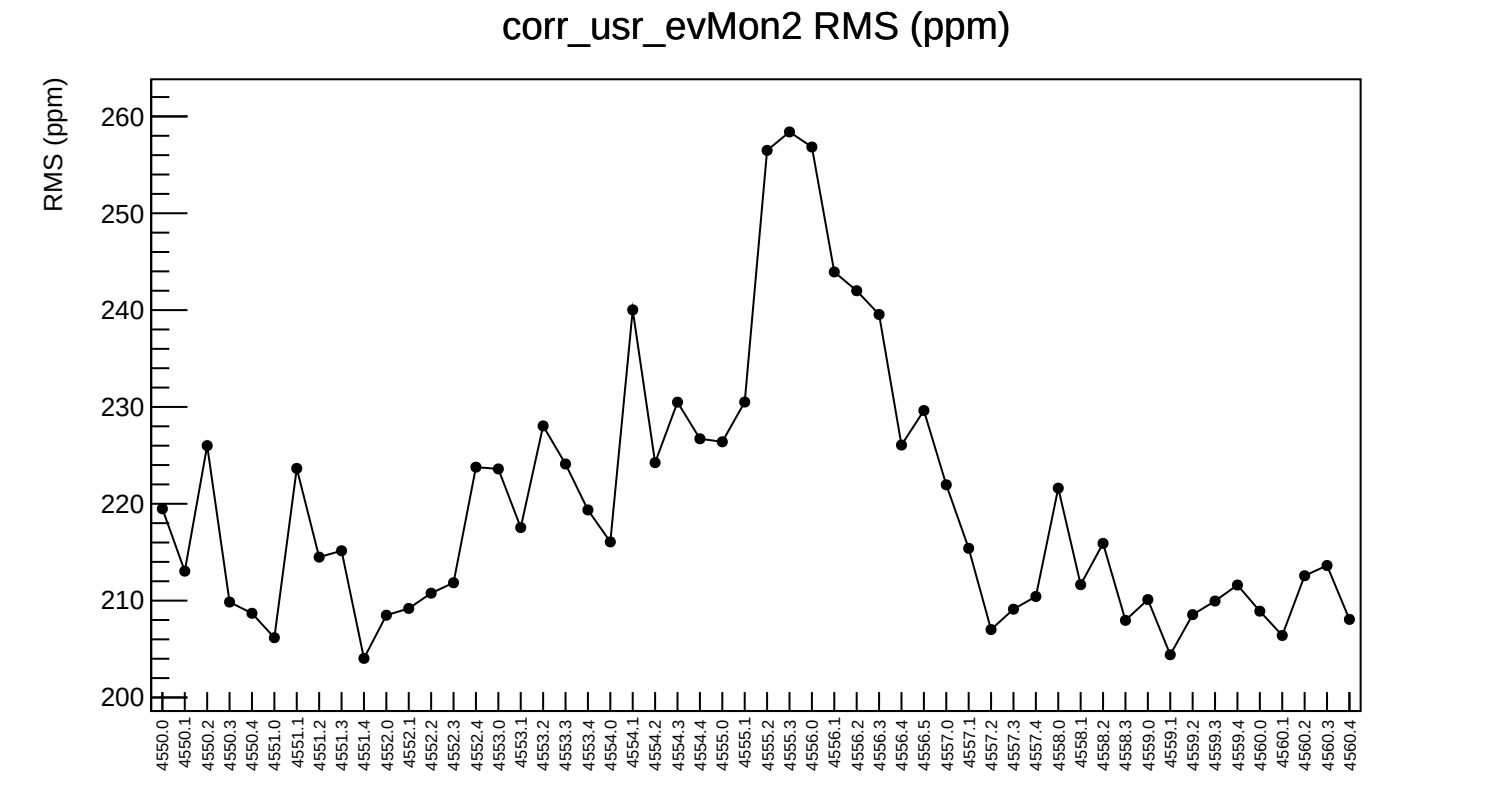

corr_usr_evMon1 (ppb)
χ² / ndf 87.4 / 53
p0 23.26 ± 166.9
4000
2000
0
-2000
-4000
-6000
-8000
2
1
0
−1
−2
−3
−4
−5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

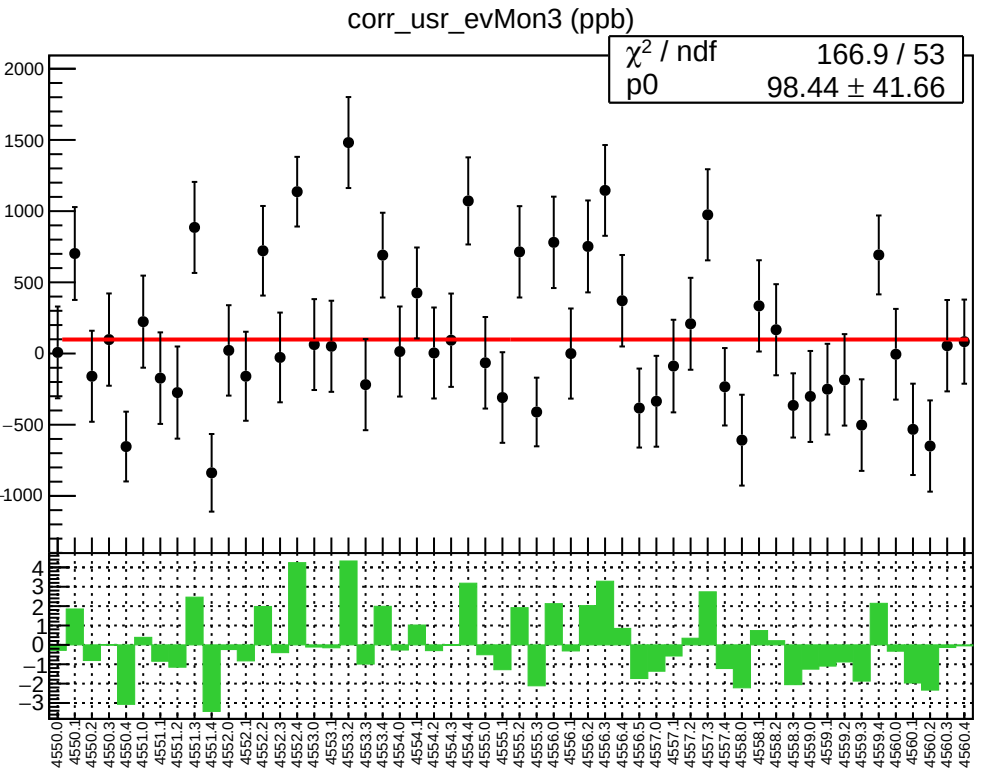

1D pull distribution
Mean −0.02839 ± 0.1731
Std Dev 1.272 ± 0.1224
Underflow 0
Overflow 0
χ² / ndf 5.715 / 8
Constant 9.403 ± 1.728
Mean 0.1478 ± 0.1694
Sigma 1.111 ± 0.142
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

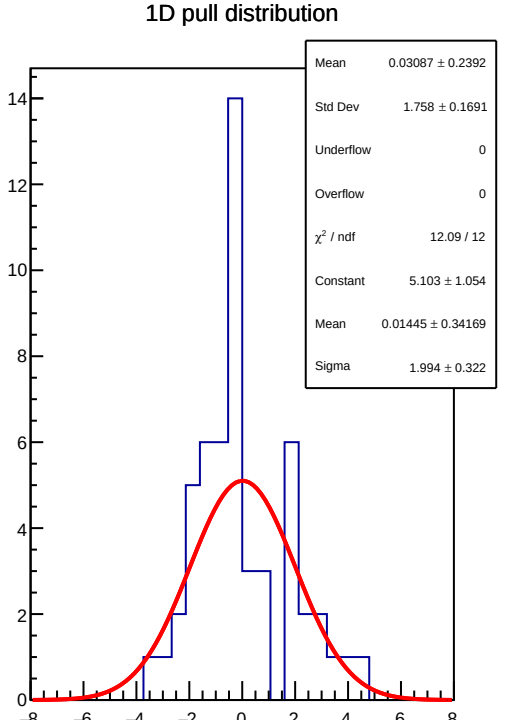

corr_usr_evMon1 RMS (ppm)
RMS (ppm)
100
120
140
160
180
200
220
240
260
280
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

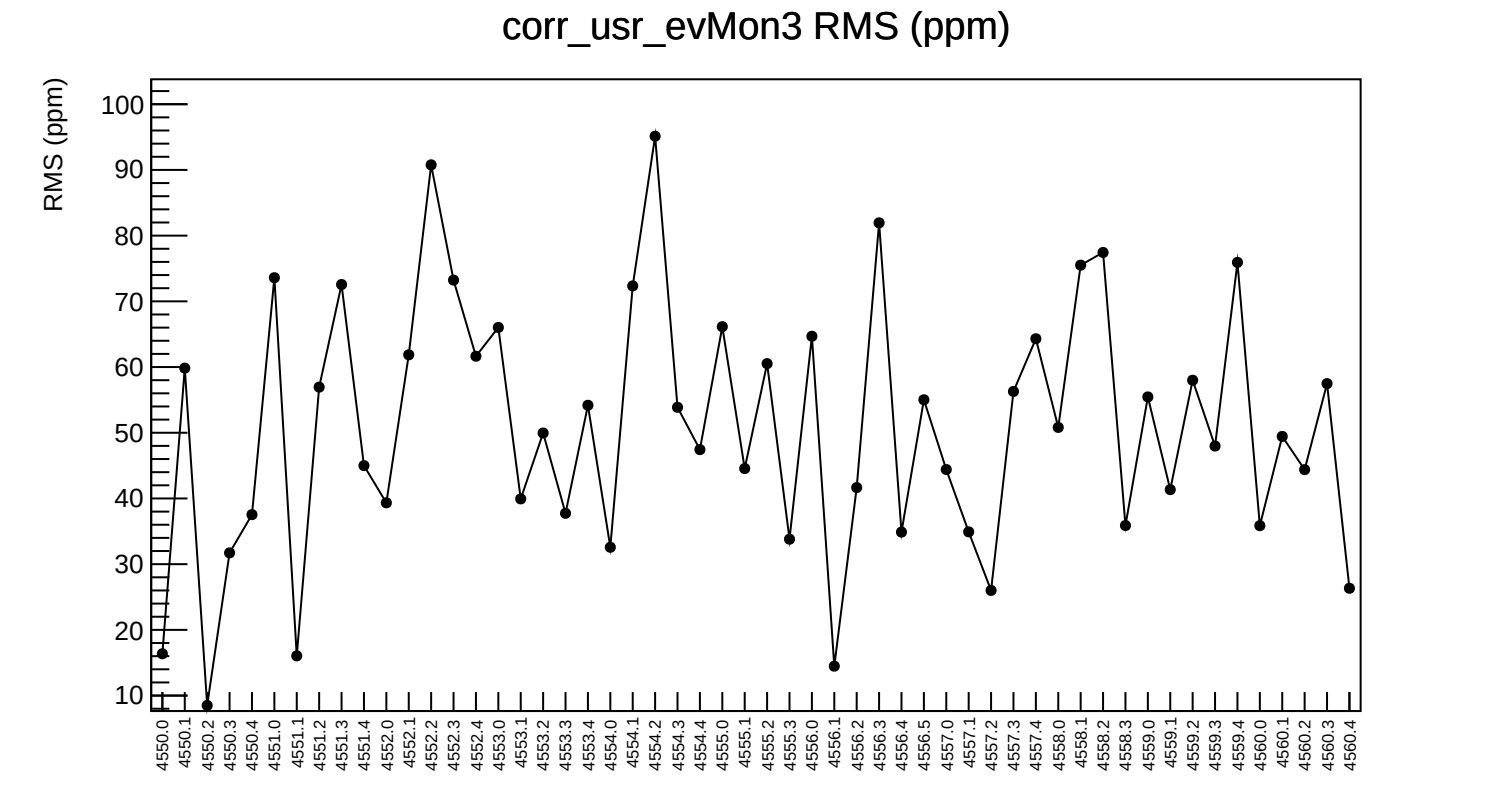

corr_usr_evMon2 (ppb)
χ² / ndf 35.07 / 53
p0 401.4 ± 311.5
6000
4000
2000
0
-2000
-4000
-6000
1.5
1
0.5
0
−0.5
−1
−1.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

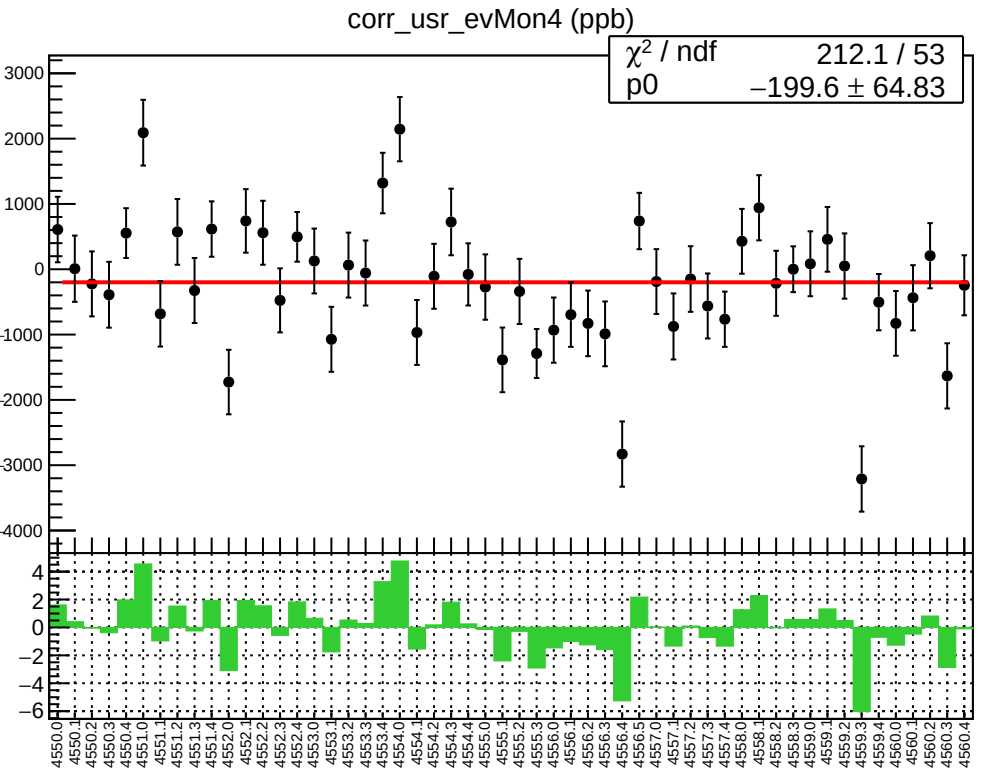

1D pull distribution
Mean 0.00987 ± 0.1097
Std Dev 0.8058 ± 0.07754
Underflow 0
Overflow 0
χ² / ndf 5.385 / 3
Constant 11.31± 2.10
Mean 0.1324 ± 0.2147
Sigma 1.044 ± 0.224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

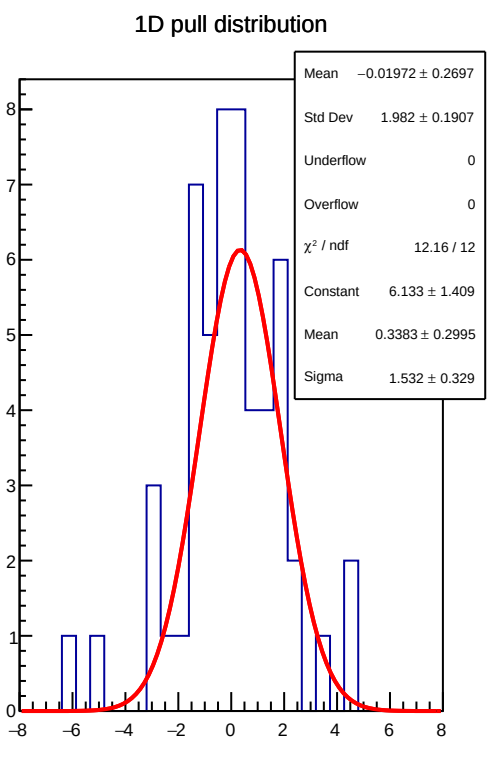

corr_usr_evMon2 RMS (ppm)
RMS (ppm)
260
250
240
230
220
210
200
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

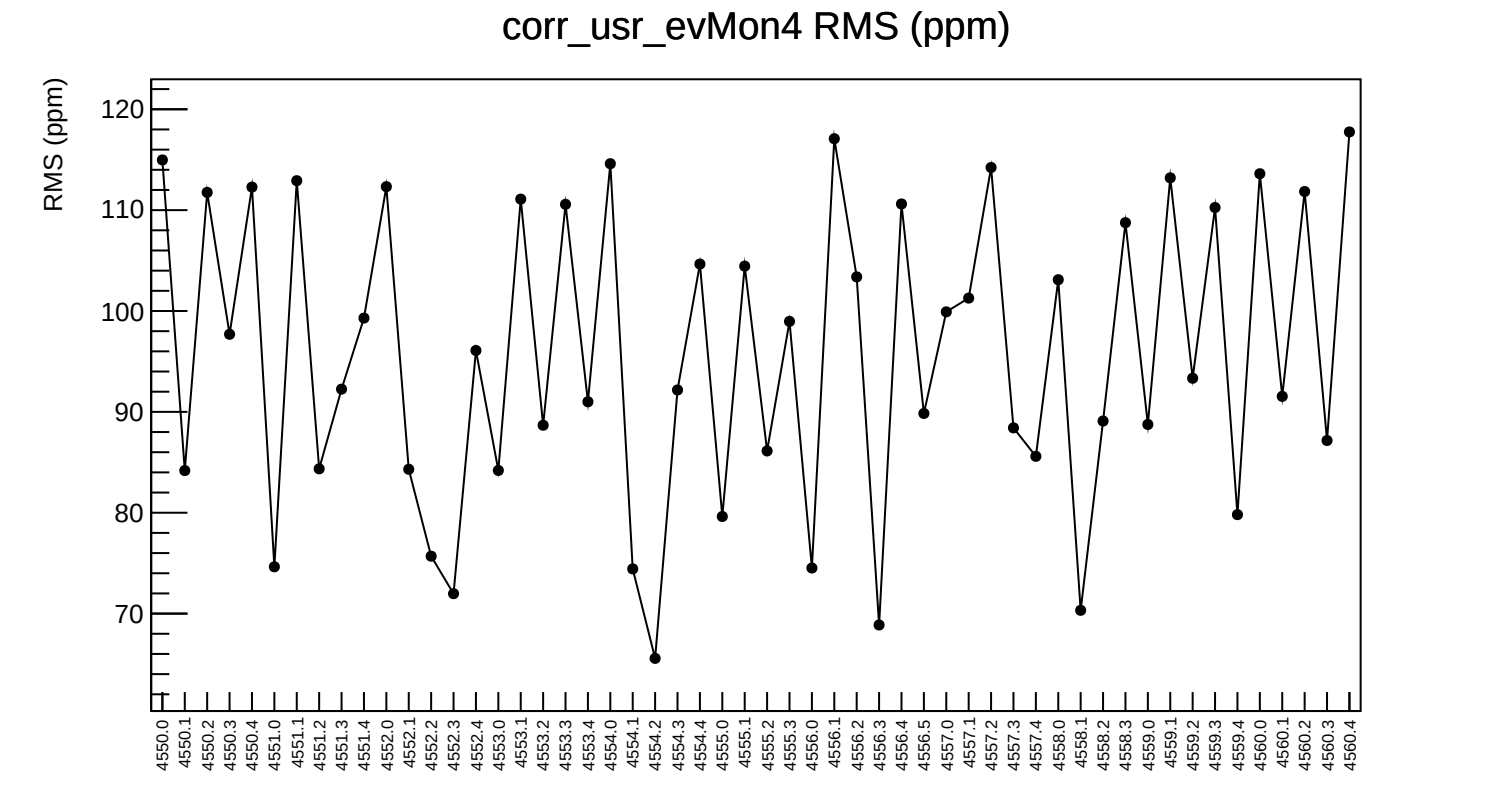

corr_usr_evMon3 (ppb)
χ² / ndf 166.9 / 53
p0 98.44 ± 41.66
2000
1500
1000
500
0
−500
−1000
4
3
2
1
0
−1
−2
−3
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

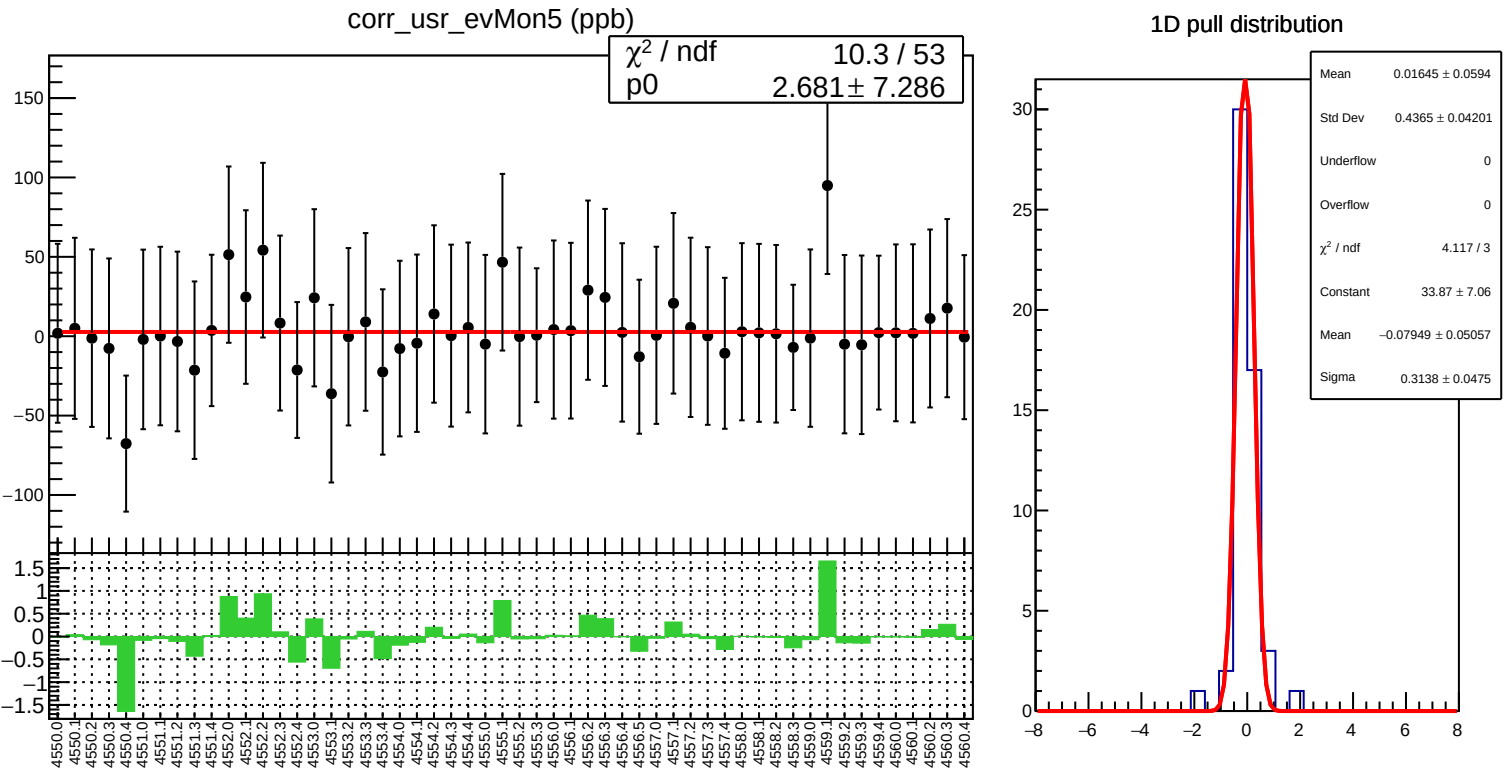

1D pull distribution
Mean 0.03087 ± 0.2392
Std Dev 1.758 ± 0.1691
Underflow 0
Overflow 0
χ² / ndf 12.09 / 12
Constant 5.103 ± 1.054
Mean 0.01445 ± 0.34169
Sigma 1.994 ± 0.322
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

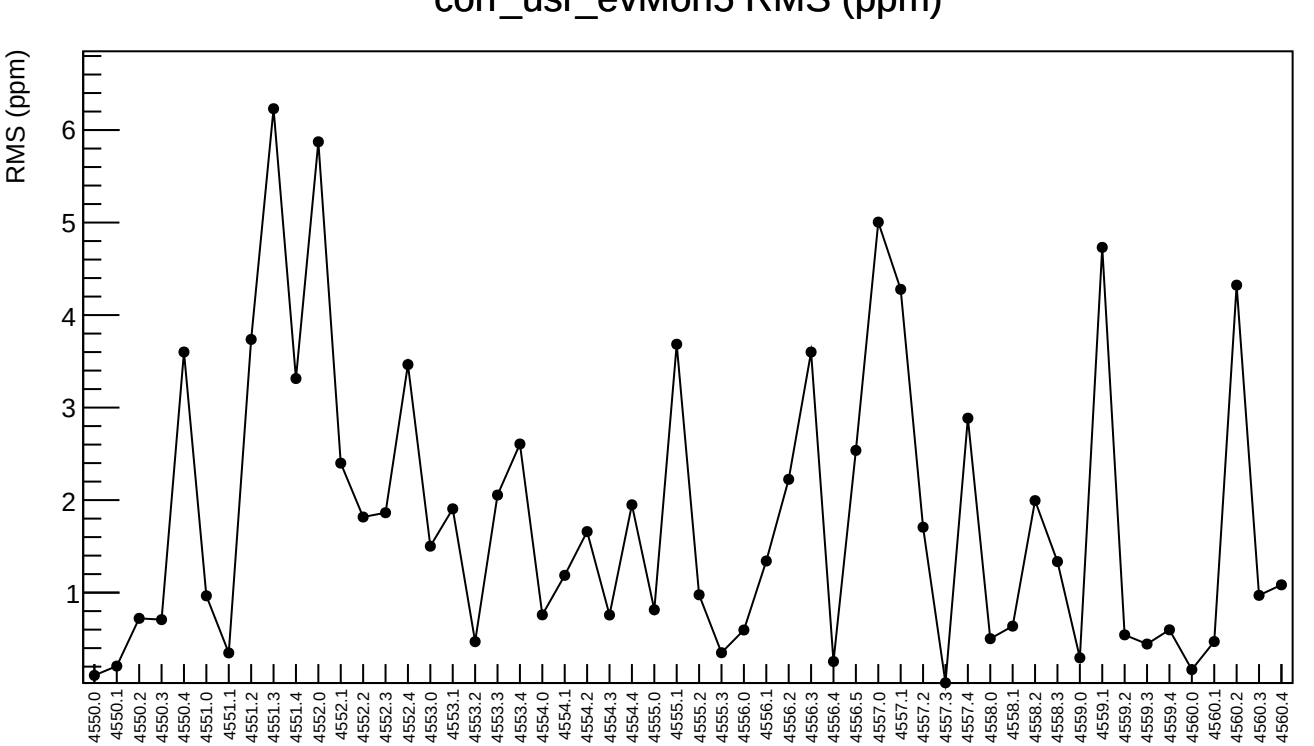

corr_usr_evMon3 RMS (ppm)
RMS (ppm)
100
90
80
70
60
50
40
30
20
10
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

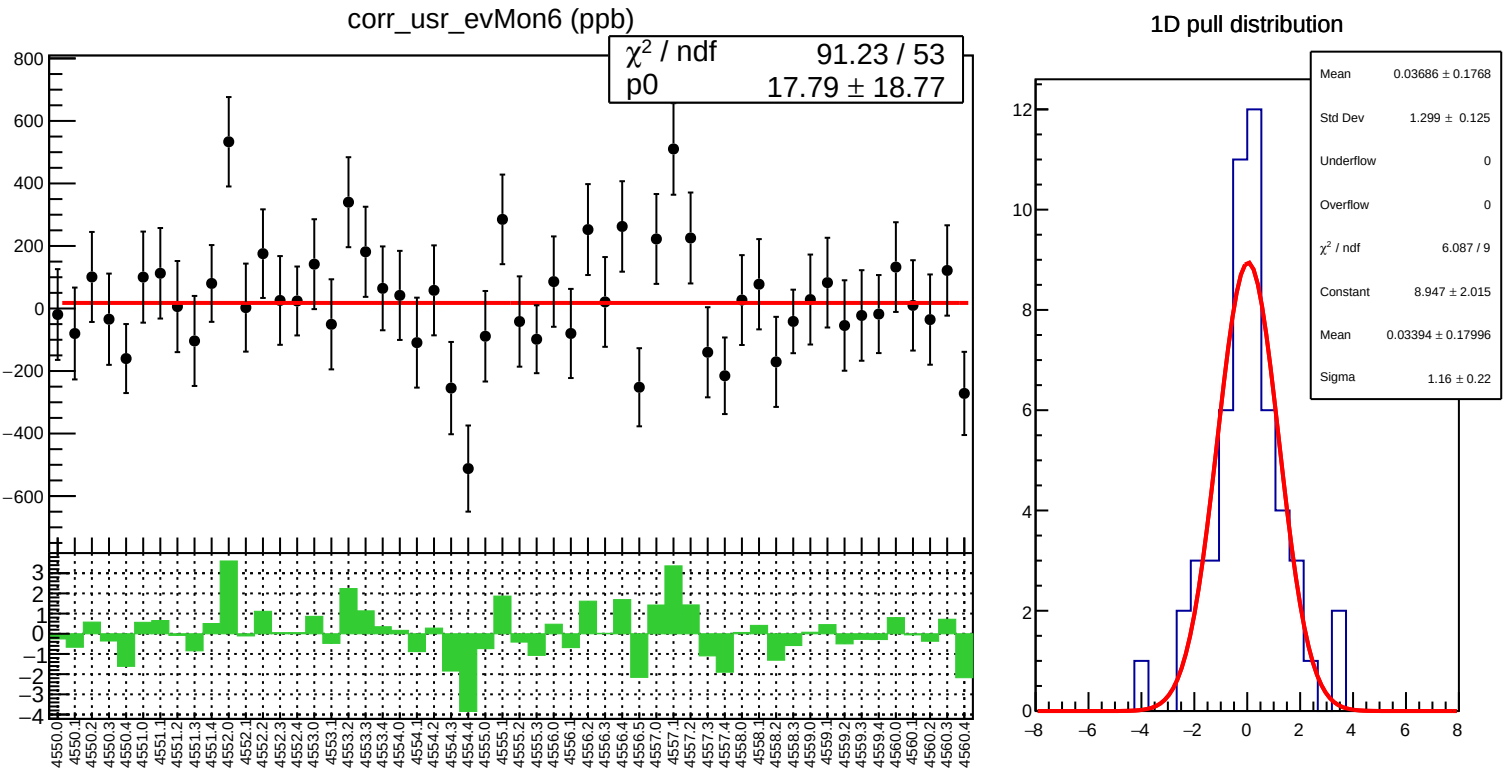

corr_usr_evMon4 (ppb)
χ² / ndf 212.1 / 53
p0 −199.6 ± 64.83
3000
2000
1000
0
-1000
-2000
-3000
-4000
4
2
0
−2
−4
−6
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

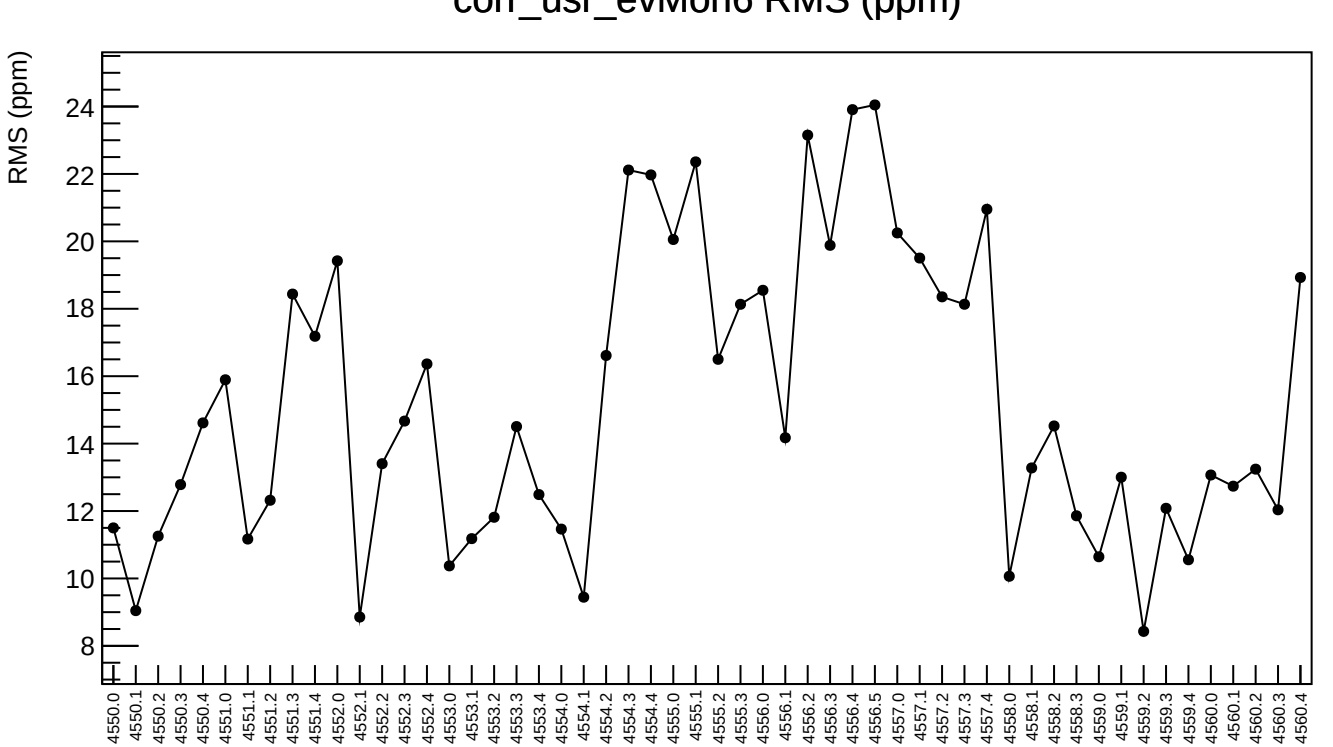

1D pull distribution
Mean −0.01972 ± 0.2697
Std Dev 1.982 ± 0.1907
Underflow 0
Overflow 0
χ² / ndf 12.16 / 12
Constant 6.133 ± 1.409
Mean 0.3383 ± 0.2995
Sigma 1.532 ± 0.329
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

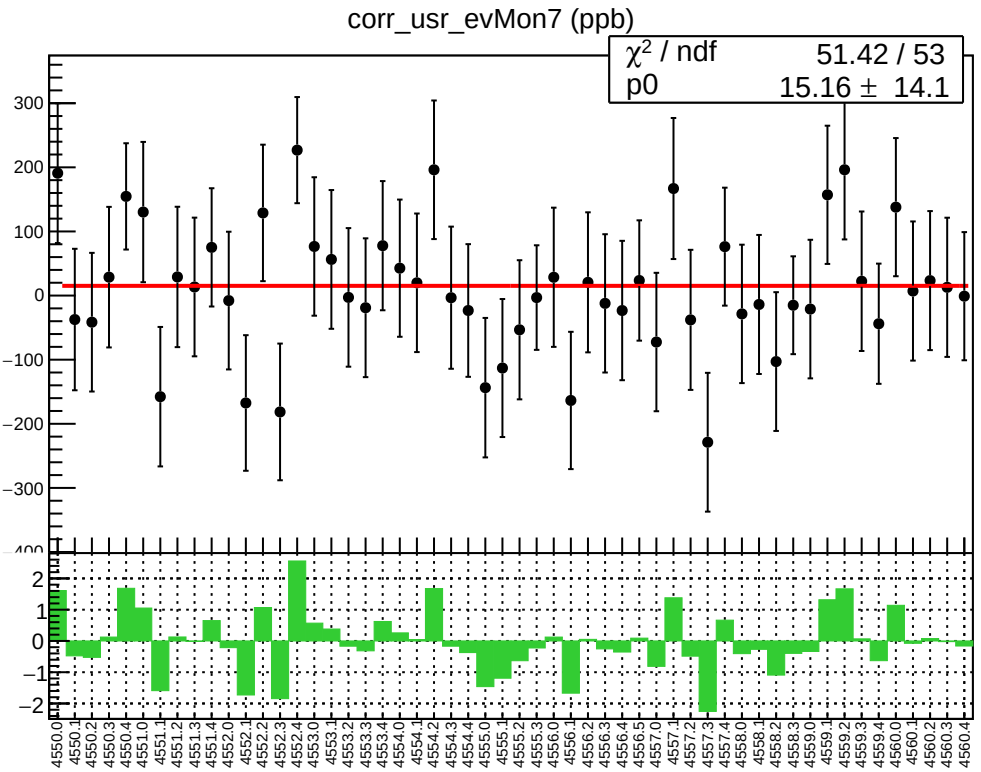

corr_usr_evMon4 RMS (ppm)
RMS (ppm)
120
110
100
90
80
70
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

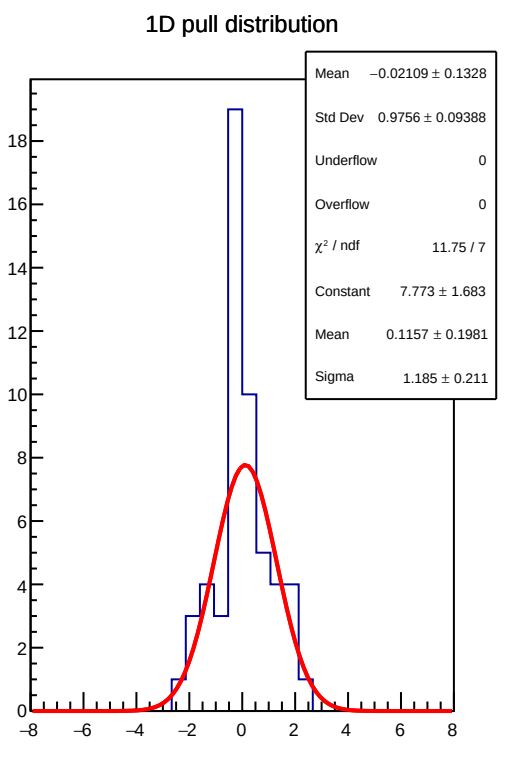

corr_usr_evMon5 (ppb)
χ² / ndf 10.3 / 53
p0 2.681 ± 7.286
1D pull distribution
Mean 0.01645 ± 0.0594
Std Dev 0.4365 ± 0.04201
Underflow 0
Overflow 0
χ² / ndf 4.117 / 3
Constant 33.87 ± 7.06
Mean −0.07949 ± 0.05057
Sigma 0.3138 ± 0.0475

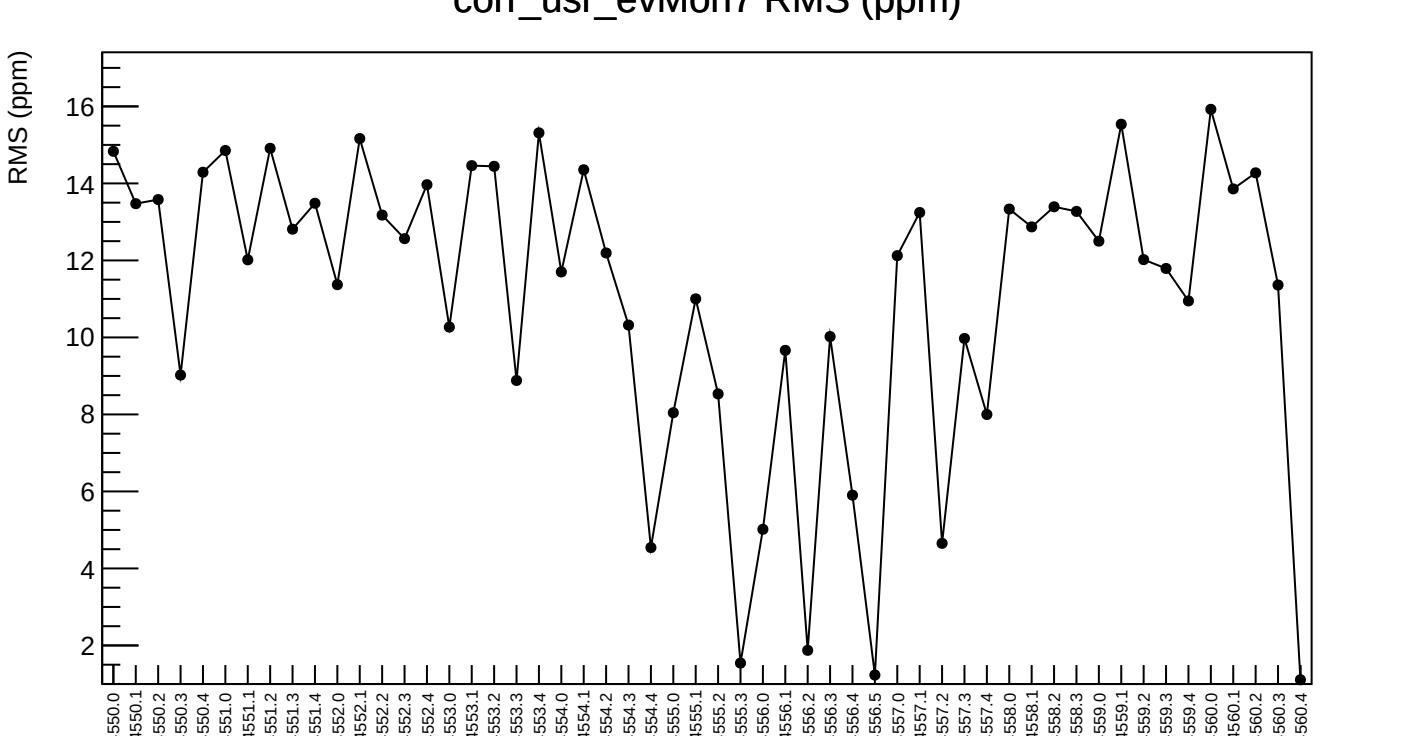

corr_usr_evMon5 RMS (ppm)
RMS (ppm)
1
2
3
4
5
6
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

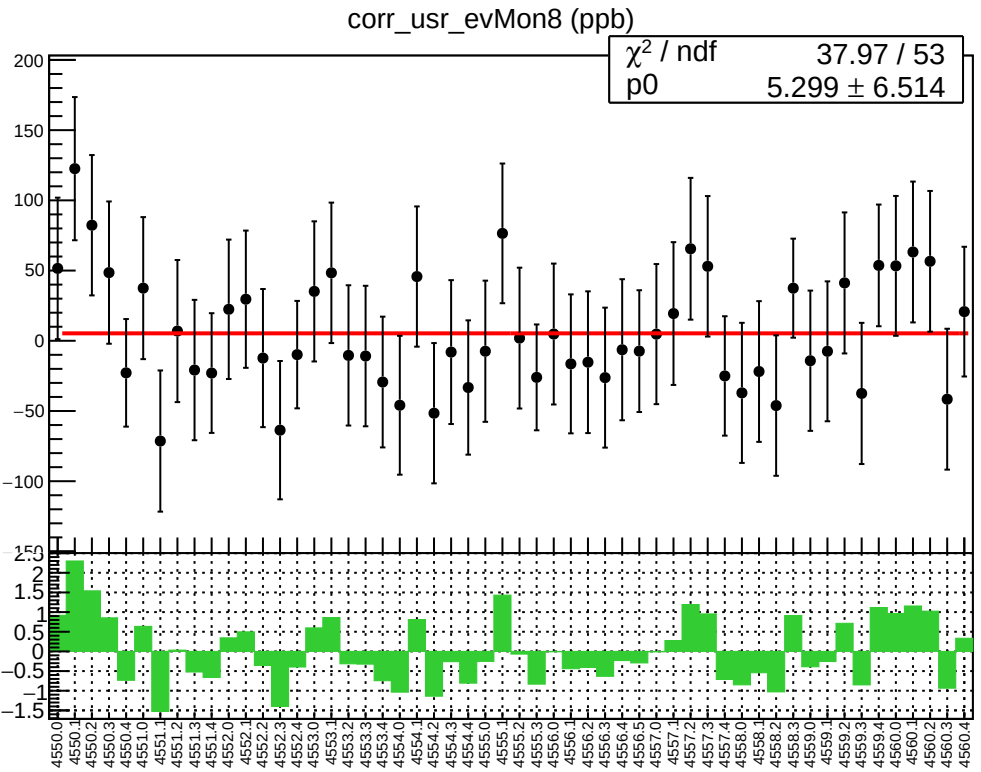

corr_usr_evMon6 (ppb)
χ² / ndf 91.23 / 53
p0 17.79 ± 18.77
1D pull distribution
Mean 0.03686 ± 0.1768
Std Dev 1.299 ± 0.125
Underflow 0
Overflow 0
χ² / ndf 6.087 / 9
Constant 8.947 ± 2.015
Mean 0.03394 ± 0.17996
Sigma 1.16 ± 0.22

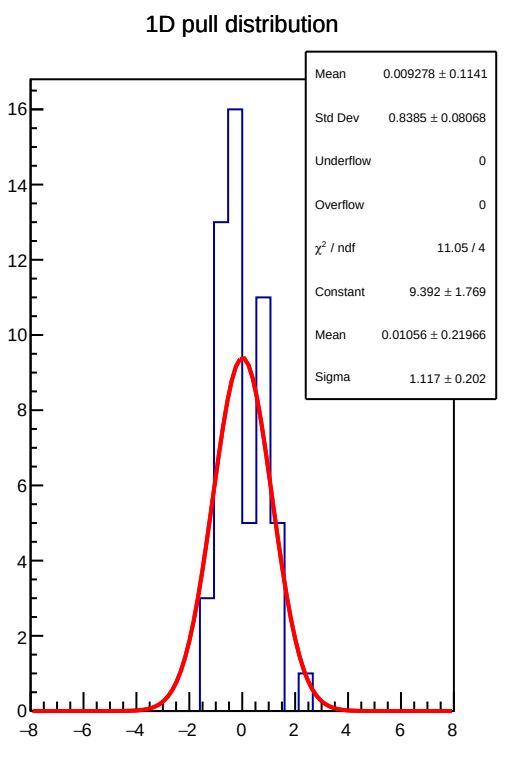

corr_usr_evMon6 RMS (ppm)
RMS (ppm)
8
10
12
14
16
18
20
22
24
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

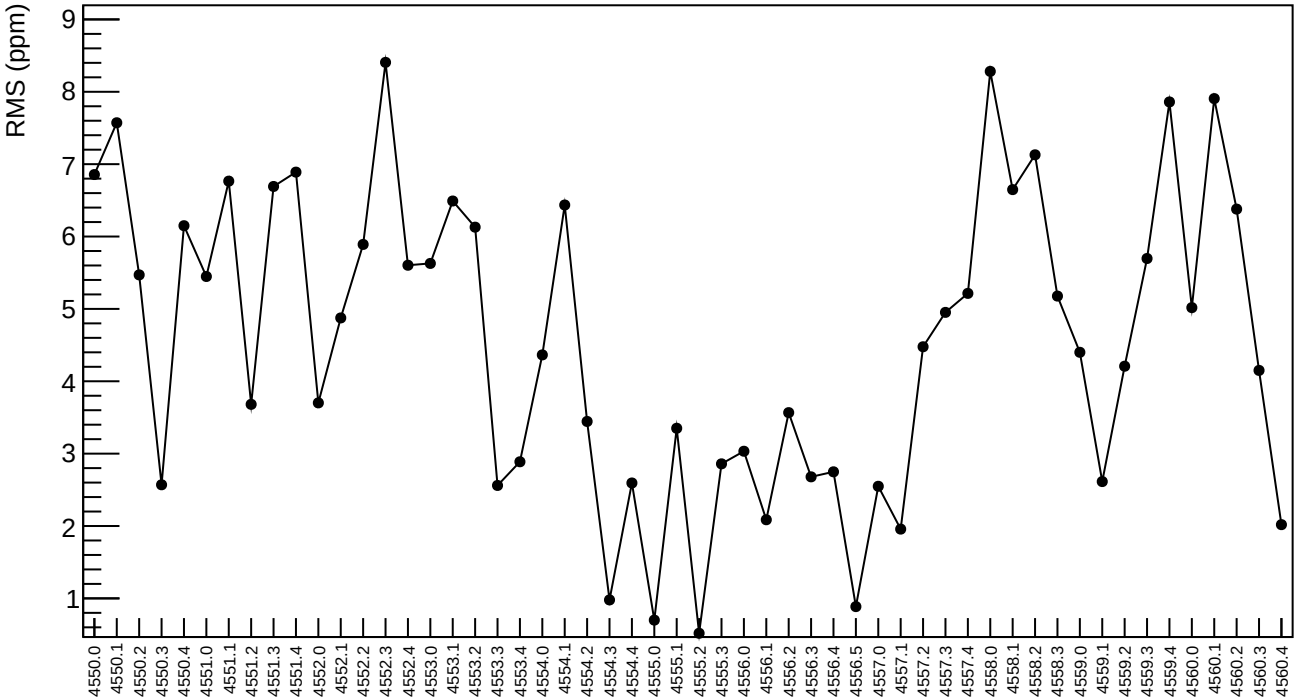

corr_usr_evMon7 (ppb)
χ² / ndf 51.42 / 53
p0 15.16 ± 14.1

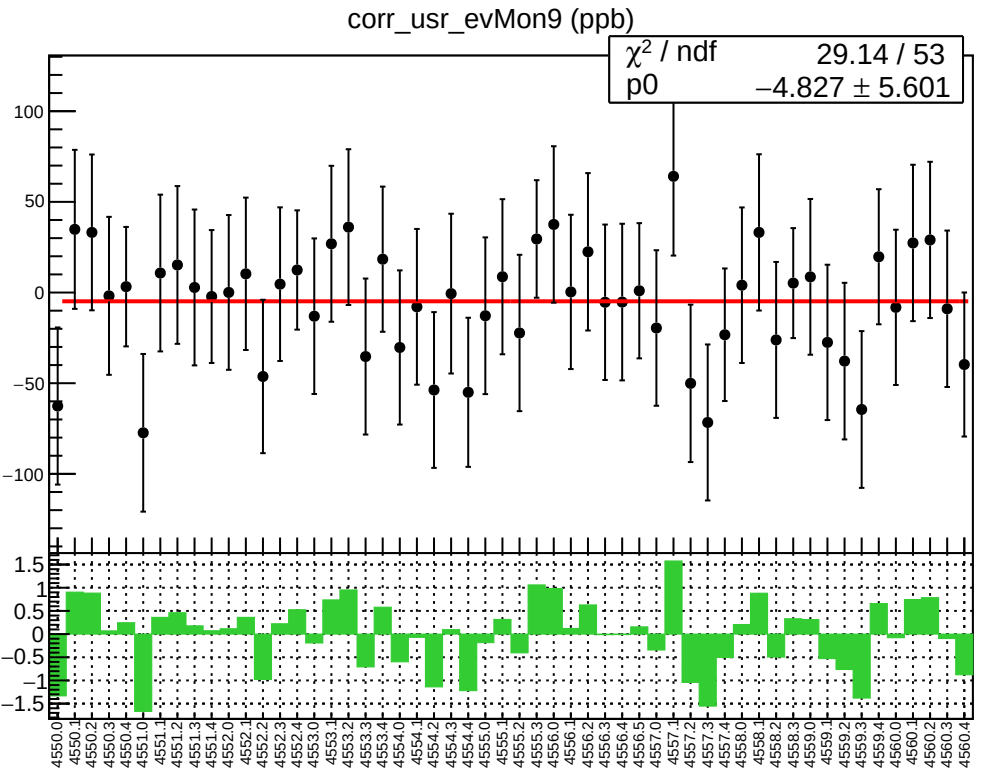

1D pull distribution
Mean −0.02109 ± 0.1328
Std Dev 0.9756 ± 0.09388
Underflow 0
Overflow 0
χ² / ndf 11.75 / 7
Constant 7.773 ± 1.683
Mean 0.1157 ± 0.1981
Sigma 1.185 ± 0.211

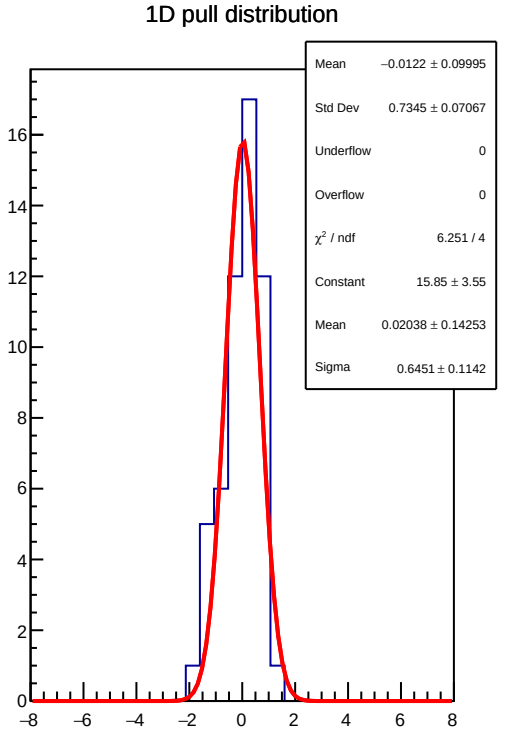

corr_usr_evMon7 RMS (ppm)
RMS (ppm)
16
14
12
10
8
6
4
2
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

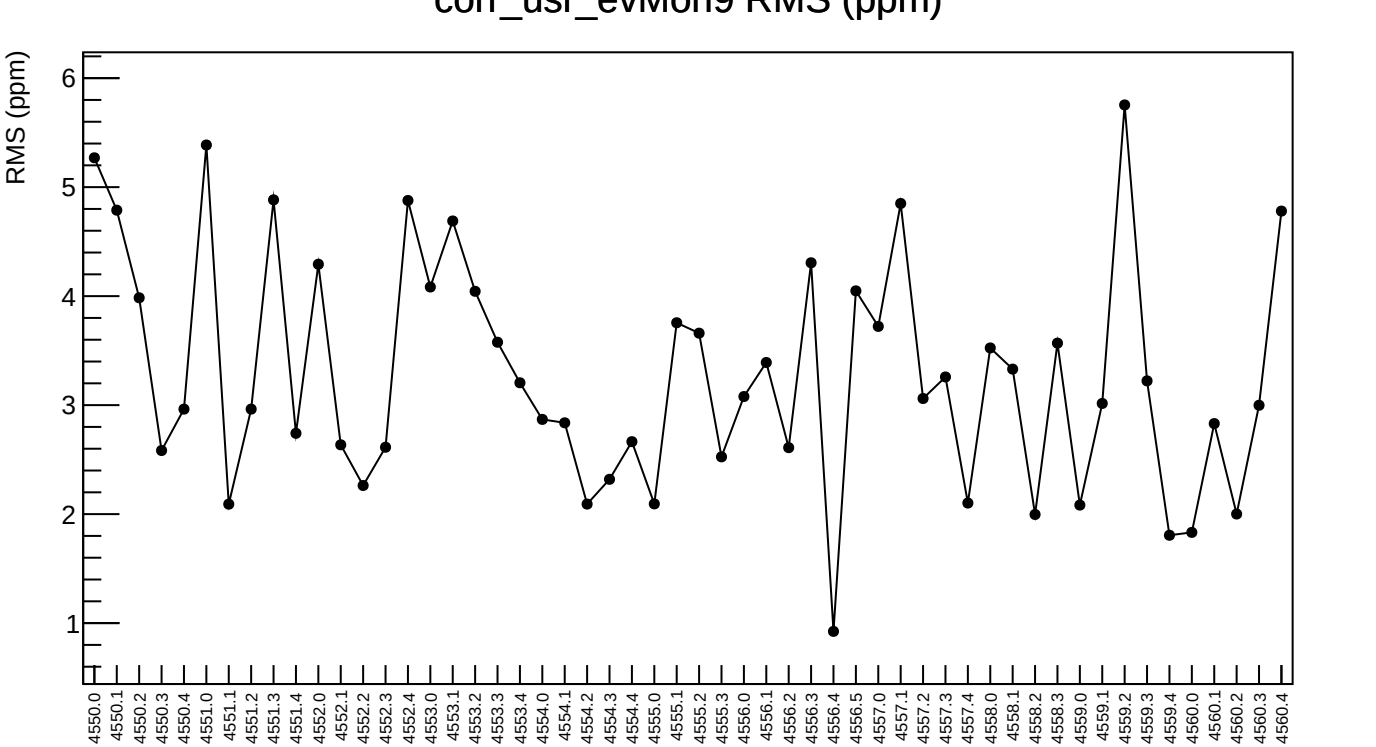

corr_usr_evMon8 (ppb)
χ² / ndf 37.97 / 53
p0 5.299 ± 6.514

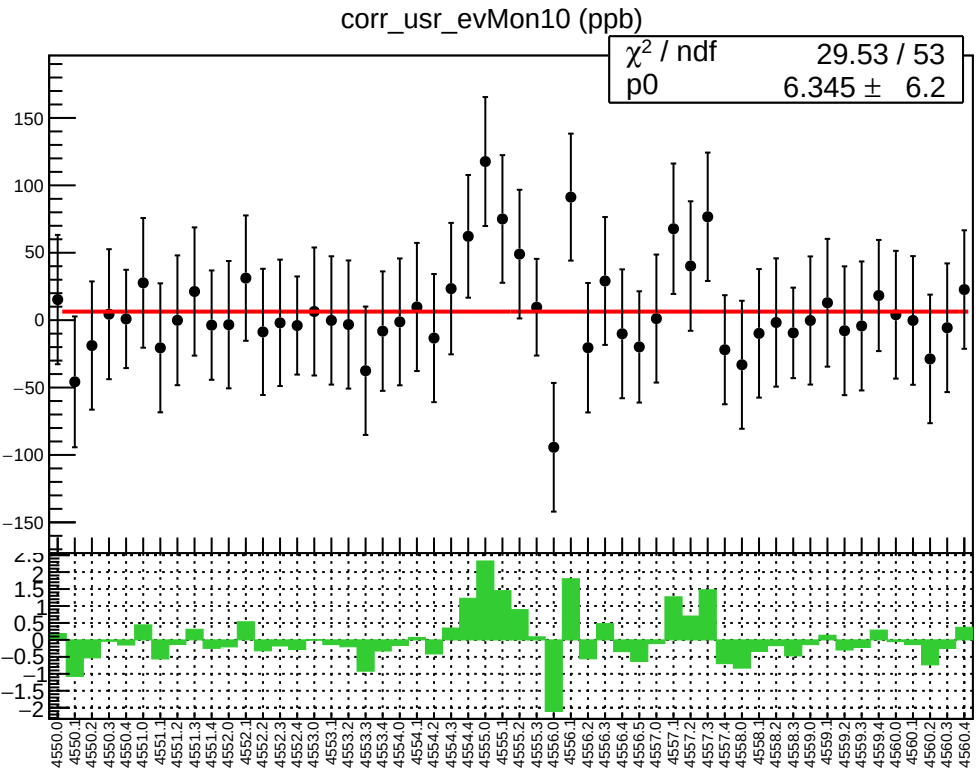

1D pull distribution
Mean 0.009278 ± 0.1141
Std Dev 0.8385 ± 0.08068
Underflow 0
Overflow 0
χ² / ndf 11.05 / 4
Constant 9.392 ± 1.769
Mean 0.01056 ± 0.21966
Sigma 1.117 ± 0.202

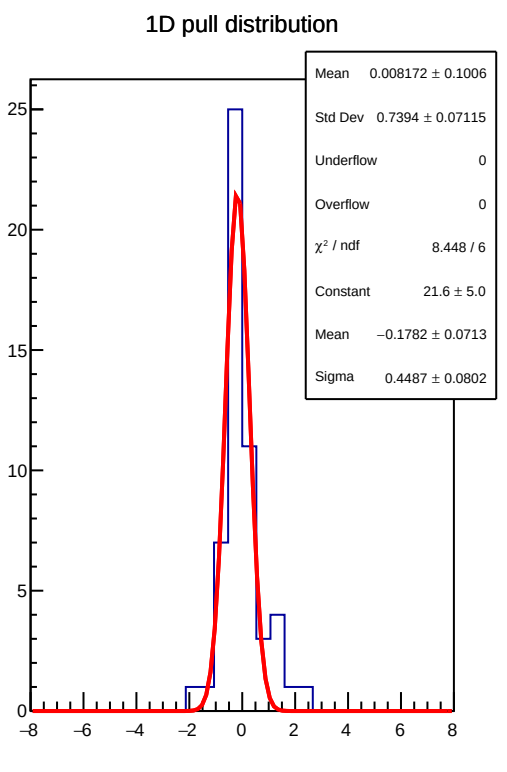

corr_usr_evMon8 RMS (ppm)
RMS (ppm)
9
8
7
6
5
4
3
2
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

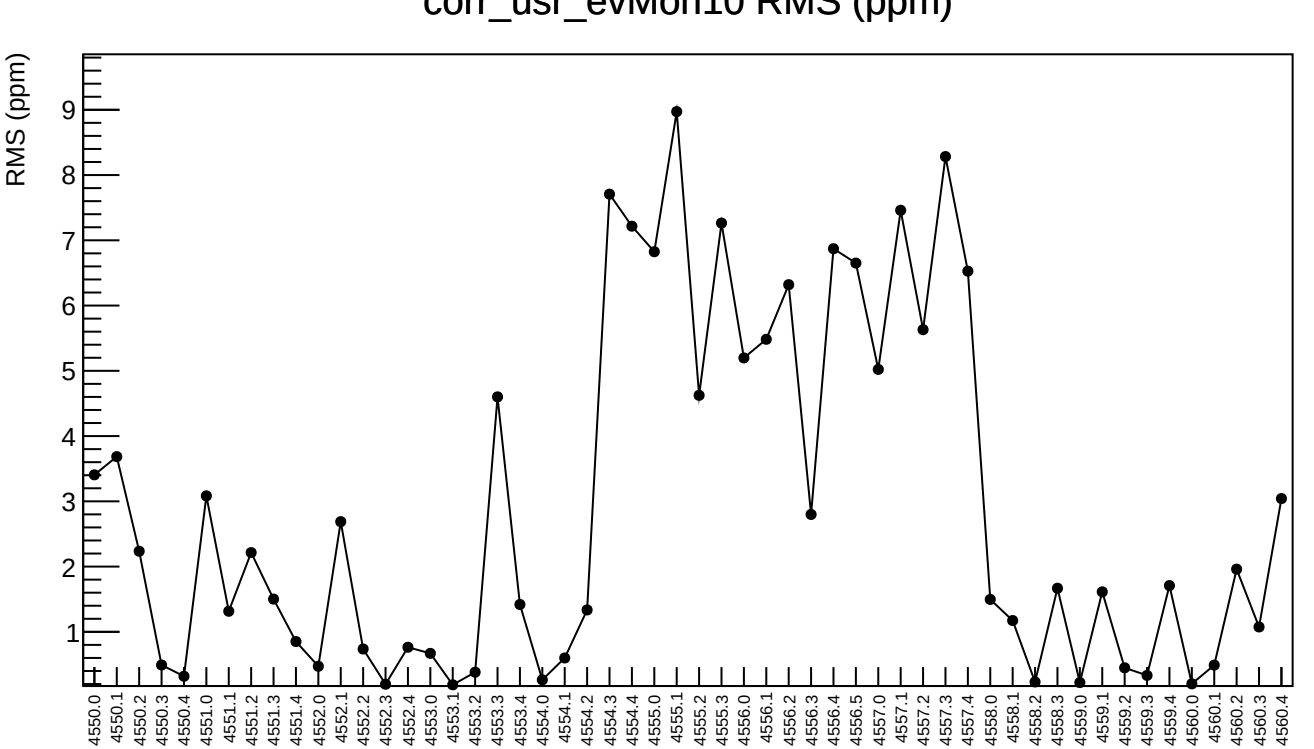

corr_usr_evMon9 (ppb)
χ² / ndf 29.14 / 53
p0 −4.827 ± 5.601
100
50
0
−50
−100
1.5
1
0.5
0
−0.5
−1
−1.5
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4

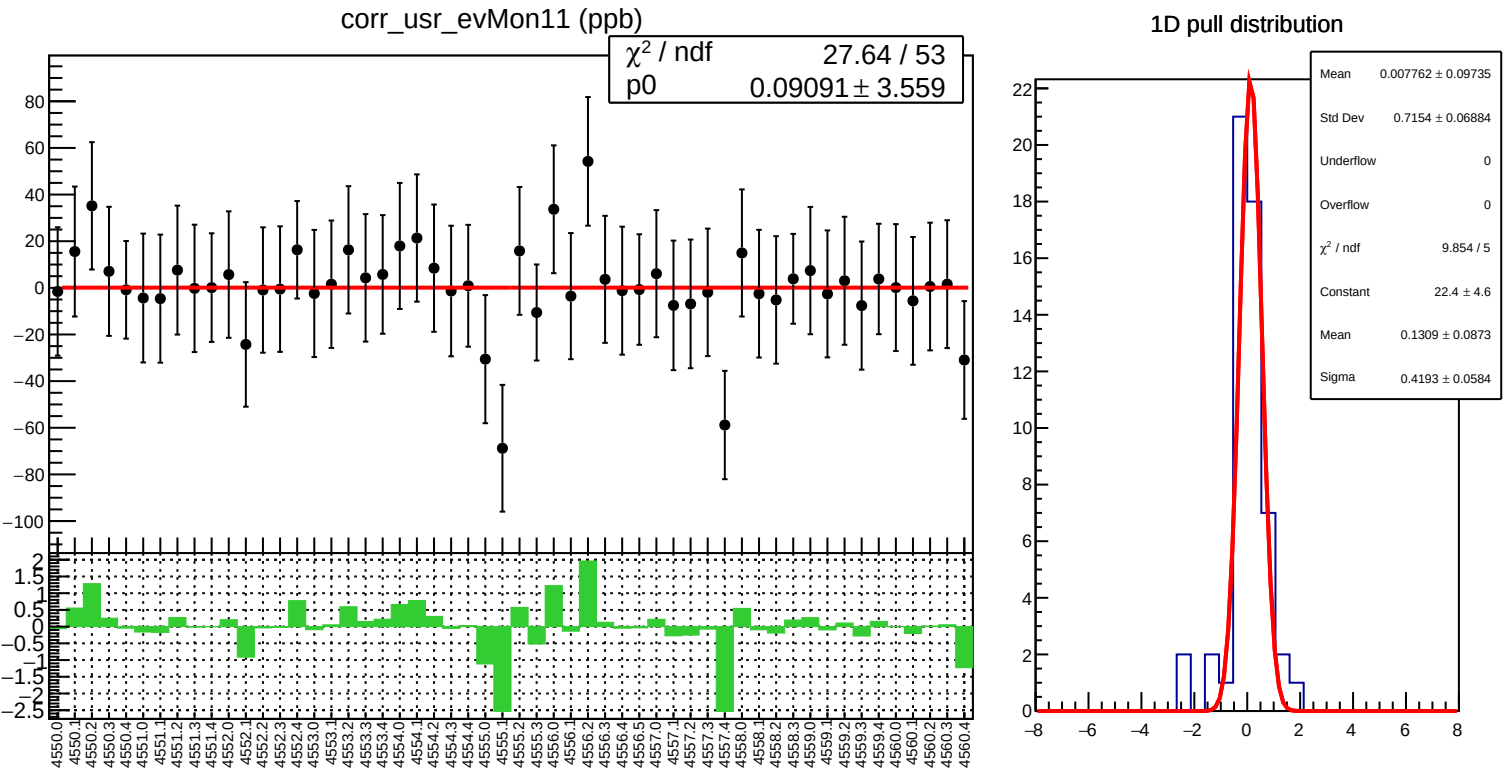

1D pull distribution
Mean −0.0122 ± 0.09995
Std Dev 0.7345 ± 0.07067
Underflow 0
Overflow 0
χ² / ndf 6.251 / 4
Constant 15.85 ± 3.55
Mean 0.02038 ± 0.14253
Sigma 0.6451 ± 0.1142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

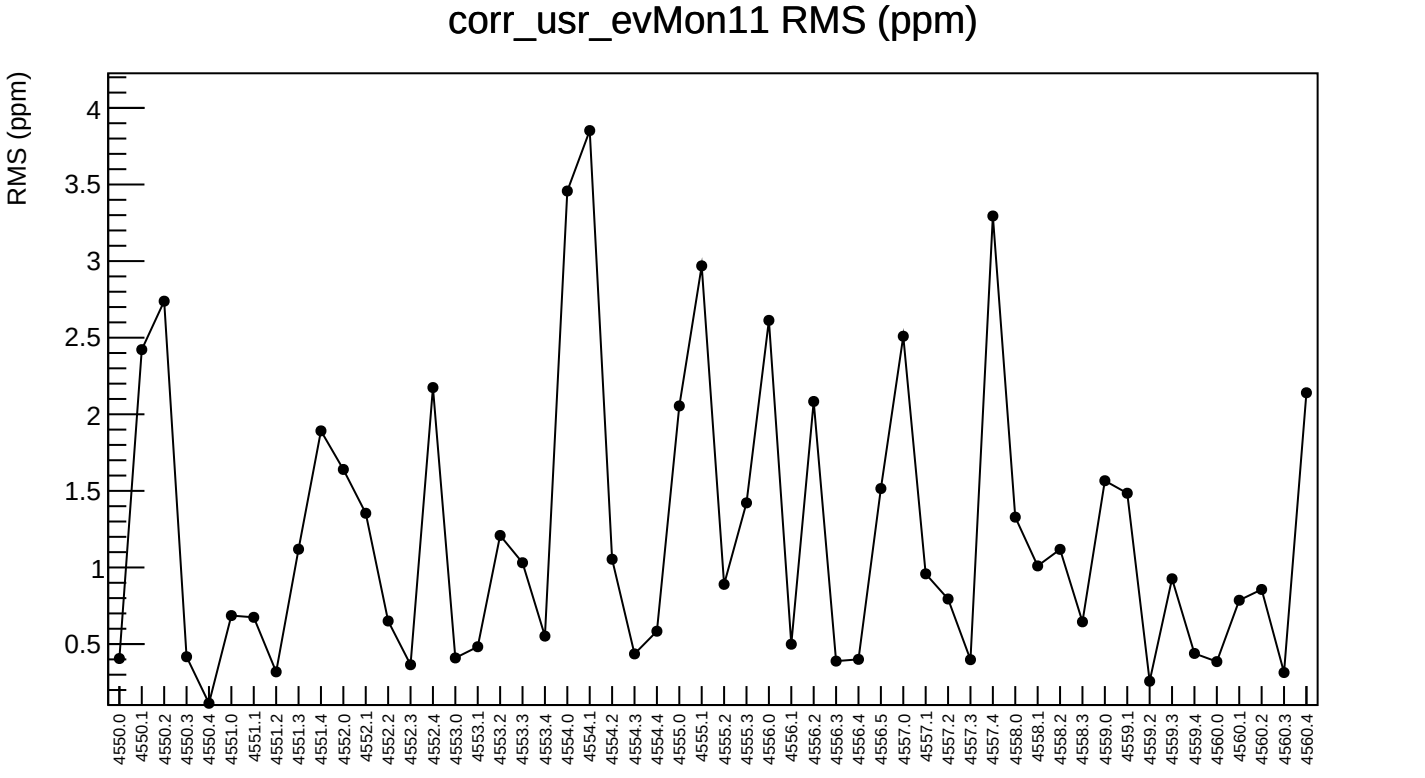

corr_usr_evMon9 RMS (ppm)
RMS (ppm)
6
5
4
3
2
1
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4


corr_usr_evMon10 (ppb)
χ² / ndf 29.53 / 53
p0 6.345 ± 6.2


1D pull distribution
Mean 0.008172 ± 0.1006
Std Dev 0.7394 ± 0.07115
Underflow 0
Overflow 0
χ² / ndf 8.448 / 6
Constant 21.6 ± 5.0
Mean −0.1782 ± 0.0713
Sigma 0.4487 ± 0.0802


corr_usr_evMon10 RMS (ppm)
RMS (ppm)
1
2
3
4
5
6
7
8
9
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4


corr_usr_evMon11 (ppb)
χ² / ndf 27.64 / 53
p0 0.09091 ± 3.559
1D pull distribution
Mean 0.007762 ± 0.09735
Std Dev 0.7154 ± 0.06884
Underflow 0
Overflow 0
χ² / ndf 9.854 / 5
Constant 22.4 ± 4.6
Mean 0.1309 ± 0.0873
Sigma 0.4193 ± 0.0584


corr_usr_evMon11 RMS (ppm)
RMS (ppm)
0.5
1
1.5
2
2.5
3
3.5
4
4550.0
4550.1
4550.2
4550.3
4550.4
4551.0
4551.1
4551.2
4551.3
4551.4
4552.0
4552.1
4552.2
4552.3
4552.4
4553.0
4553.1
4553.2
4553.3
4553.4
4554.0
4554.1
4554.2
4554.3
4554.4
4555.0
4555.1
4555.2
4555.3
4556.0
4556.1
4556.2
4556.3
4556.4
4556.5
4557.0
4557.1
4557.2
4557.3
4557.4
4558.0
4558.1
4558.2
4558.3
4559.0
4559.1
4559.2
4559.3
4559.4
4560.0
4560.1
4560.2
4560.3
4560.4