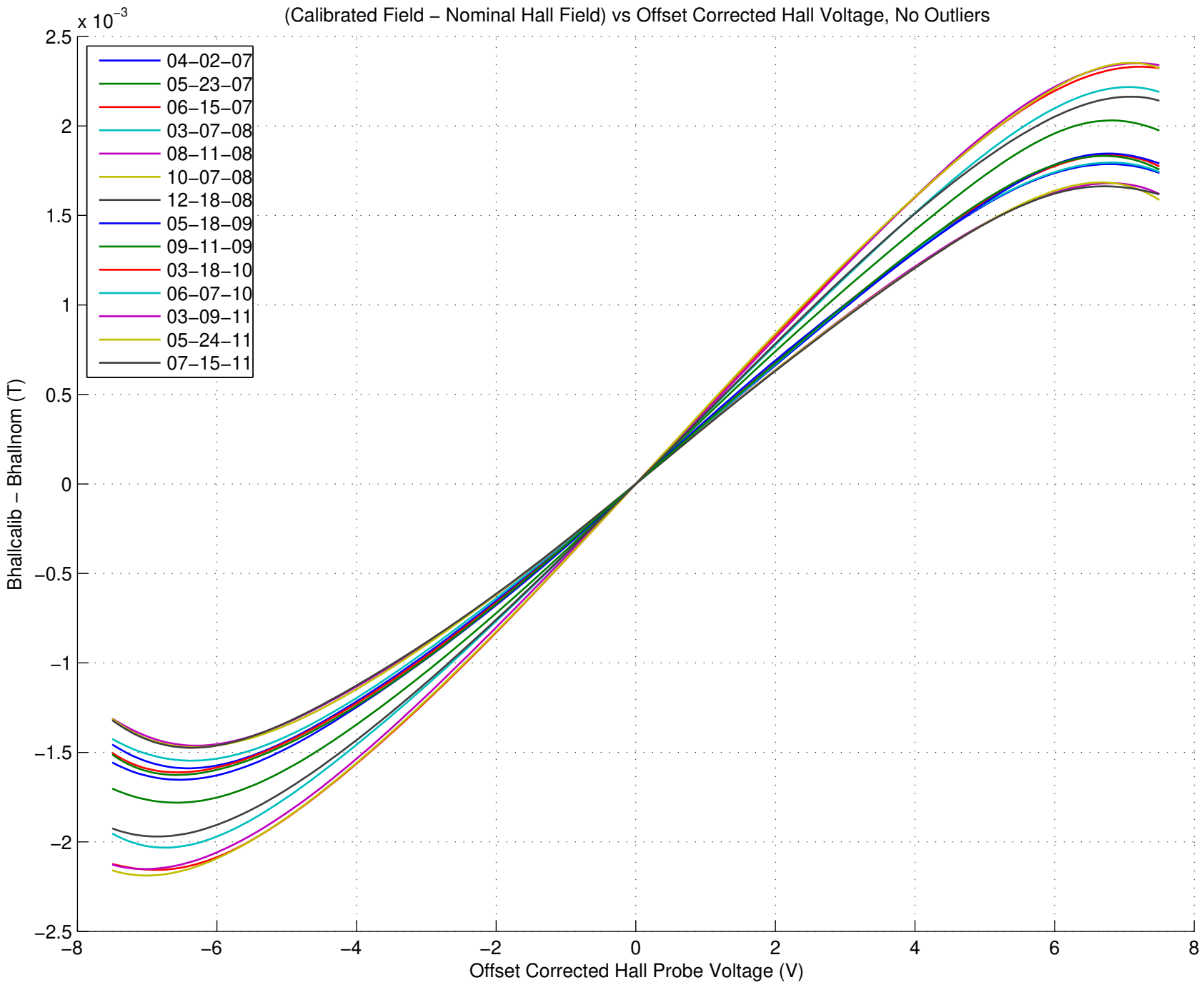
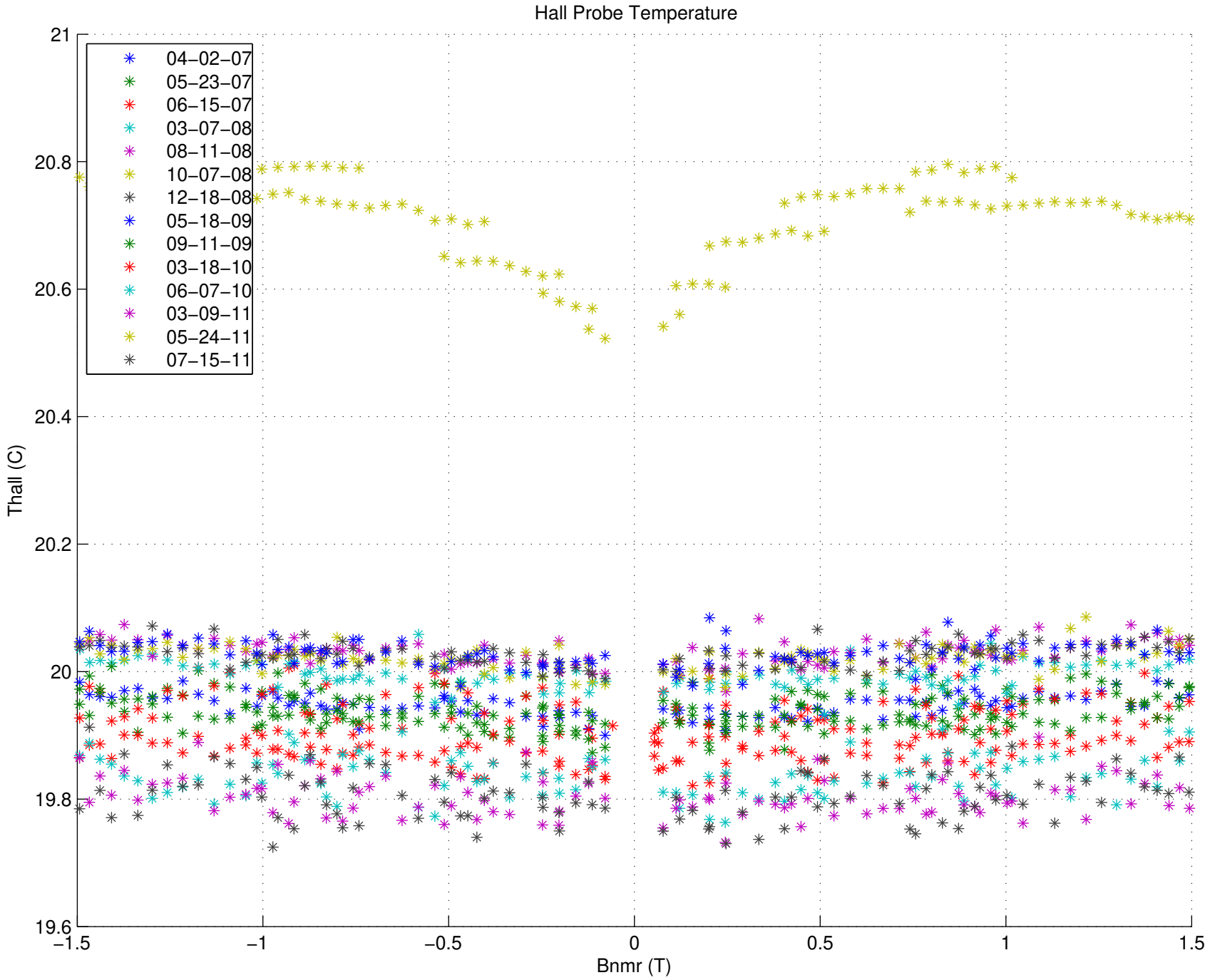
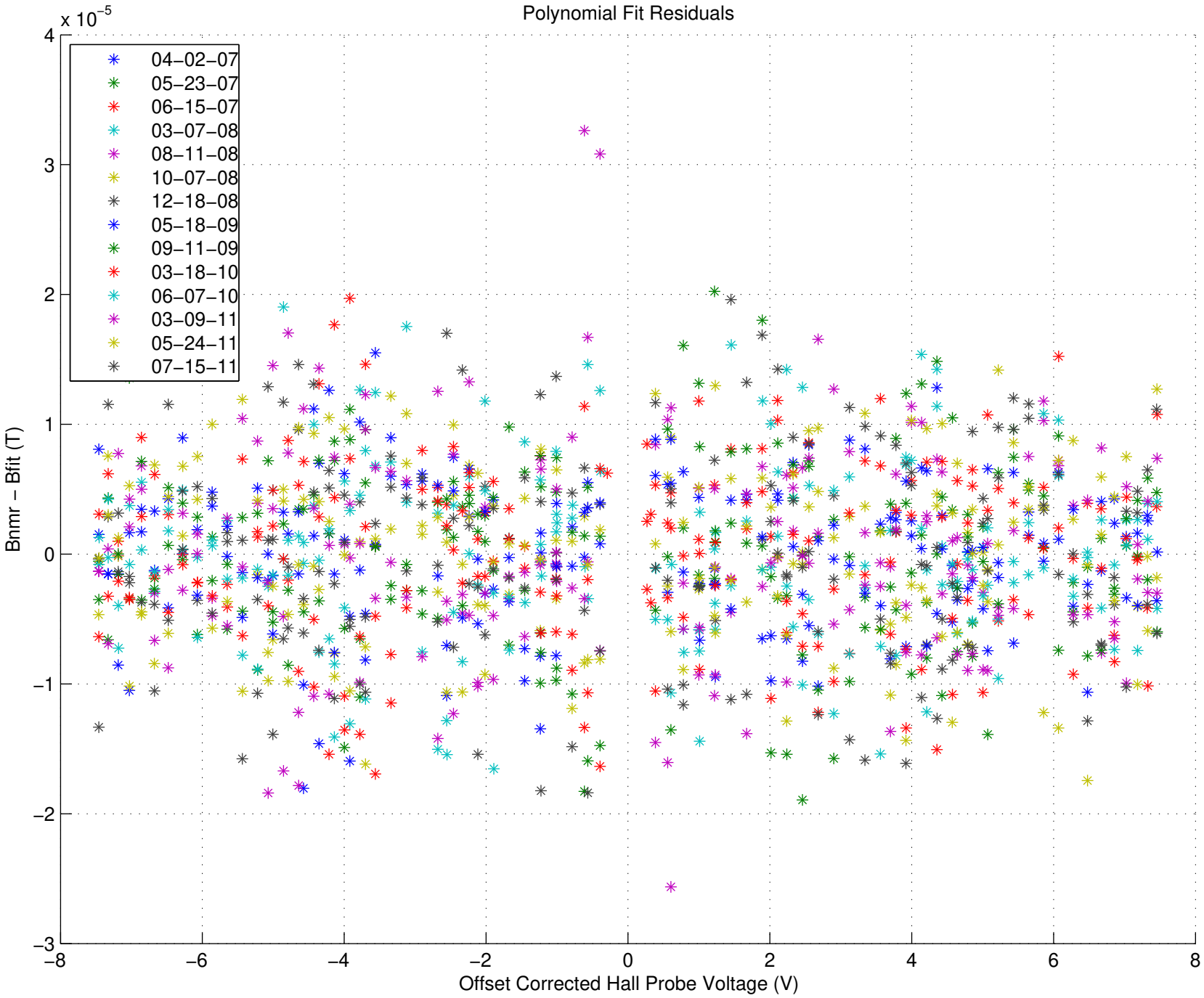
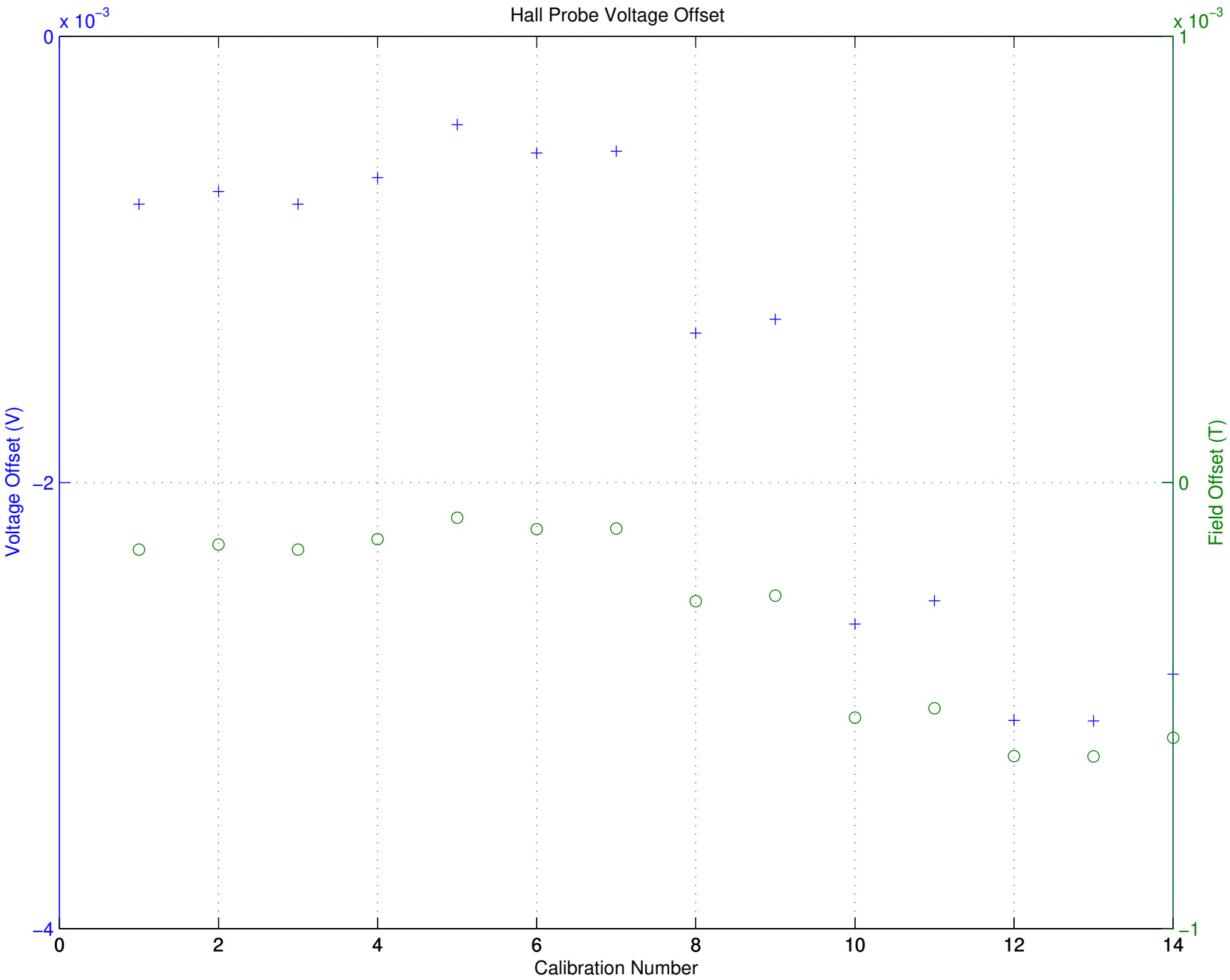
SLAC Magnetic Measurements
Hall Probe Calibration History

Hall Probe: SENTRON 441


(Calibrated Field – Nominal Hall Field) vs Offset Corrected Hall Voltage, No Outliers
x 10^-3
Bhallcalib – Bhallnom (T)
Offset Corrected Hall Probe Voltage (V)
04–02–07
05–23–07
06–15–07
03–07–08
08–11–08
10–07–08
12–18–08
05–18–09
09–11–09
03–18–10
06–07–10
03–09–11
05–24–11
07–15–11
2.5
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2
–2.5
–8
–6
–4
–2
0
2
4
6
8


Hall Probe Temperature
04–02–07
05–23–07
06–15–07
03–07–08
08–11–08
10–07–08
12–18–08
05–18–09
09–11–09
03–18–10
06–07–10
03–09–11
05–24–11
07–15–11
Thall (C)
Bnmr (T)
21
20.8
20.6
20.4
20.2
20
19.8
19.6
–1.5
–1
–0.5
0
0.5
1
1.5


Polynomial Fit Residuals
x 10^-5
04–02–07
05–23–07
06–15–07
03–07–08
08–11–08
10–07–08
12–18–08
05–18–09
09–11–09
03–18–10
06–07–10
03–09–11
05–24–11
07–15–11
Bnmr – Bfit (T)
Offset Corrected Hall Probe Voltage (V)
4
3
2
1
0
−1
−2
−3
−8
−6
−4
−2
0
2
4
6
8


Hall Probe Voltage Offset
x 10^-3
0
−2
−4
Voltage Offset (V)
x 10^-3
1
0
−1
Field Offset (T)
0
2
4
6
8
10
12
14
Calibration Number