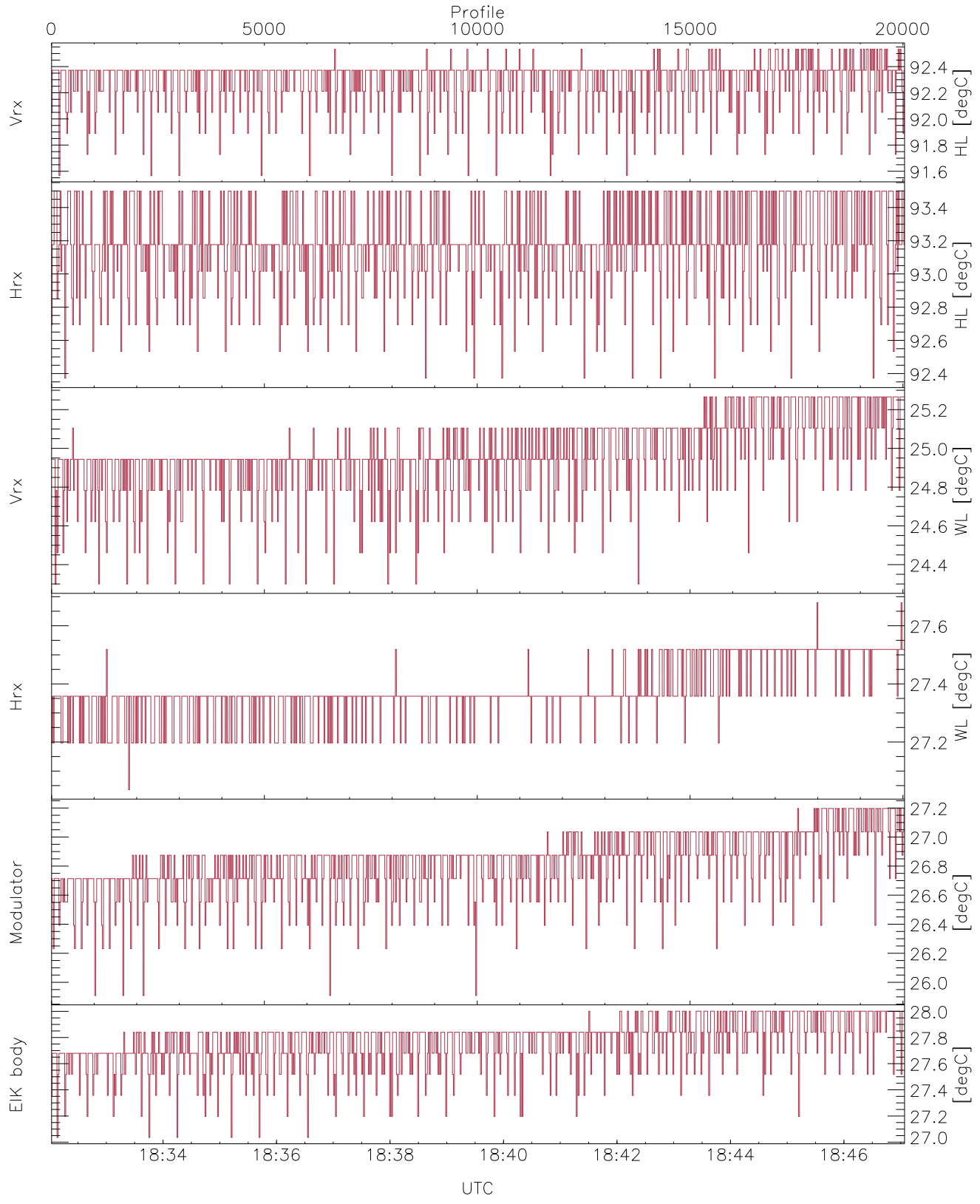
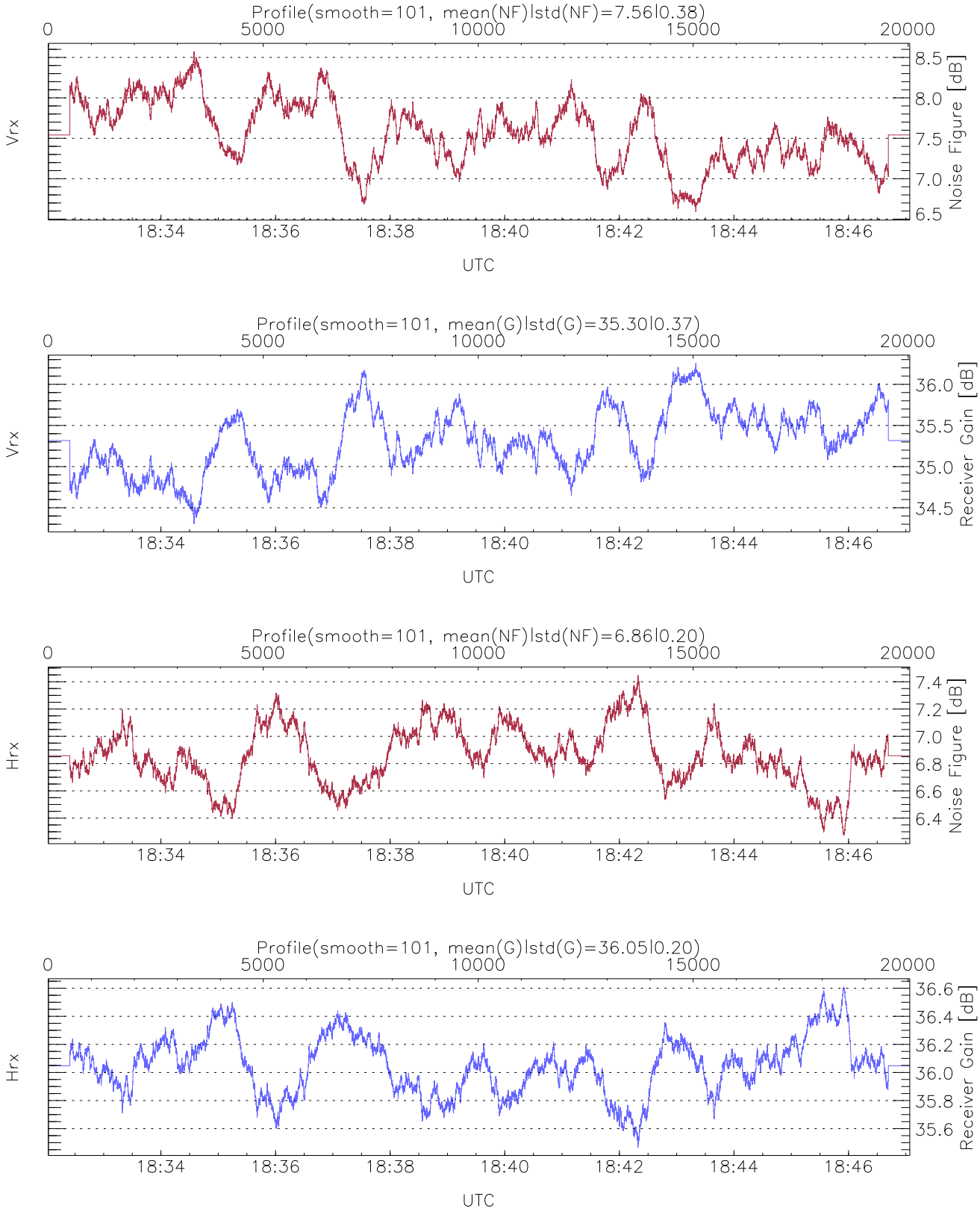

WCR3 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

UTC: 18:32:02-18:47:04, TimeCor: 0.00s, Dur: 901.98s
TimeFlg: 1, TFPstatus constant.
TimeInt/PPS(min,max,mn,std): 45.0,45.0,45.0,0.0 ms / 22.2,22.2,22.2
NumRec(r/t): 20040/20040, 0-20039/18:32:02-18:47:04
AcqTime: 45.0ms, Rate: 0.490MB/s, Averages (req.,actual): 100,100
Pulse: 250ns, IFF: 4.0MHz, Tx: H1 H1 H1 V2 V2 V2 H2 H2 H2
PRF: 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 KHz, IGS: 50us
Range(min,max,rgs): 105, 6288, 15.0 m, Gates: 413, Aspect: 3.7
Mirror(-9|0|1|2,3,9x = no mirror|sideluplerror): 1



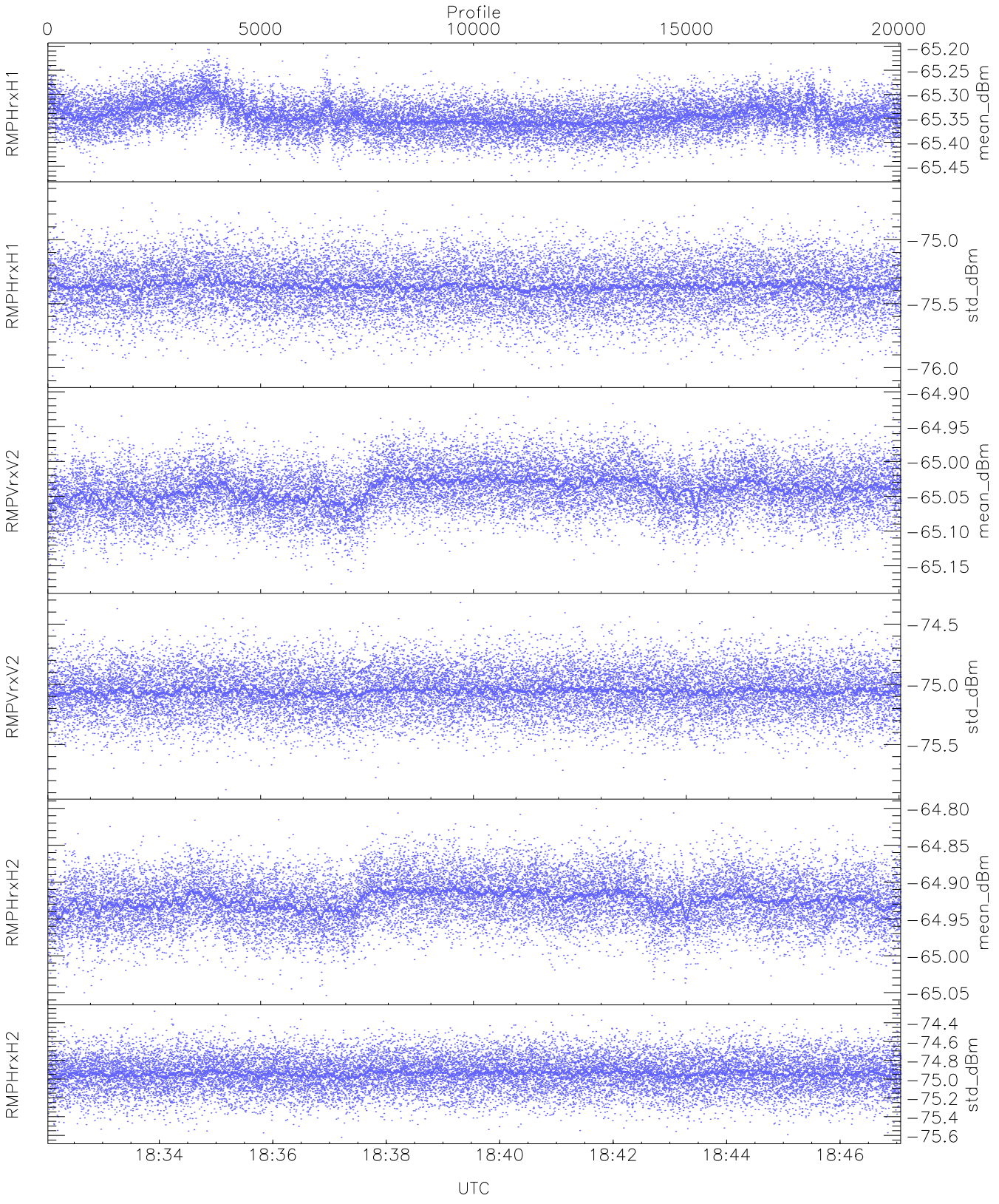

WCR3 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,92,24,27,25,27
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,93,25,27,27,28
LOalarm(20,240,2817,14861 MHz): 0,0,22,0
EIK Faults(# prof affected):
DeckT,CollT,BodyCurr,DeckF,OverDuty,HVPS (22,22,22,22,22,22)



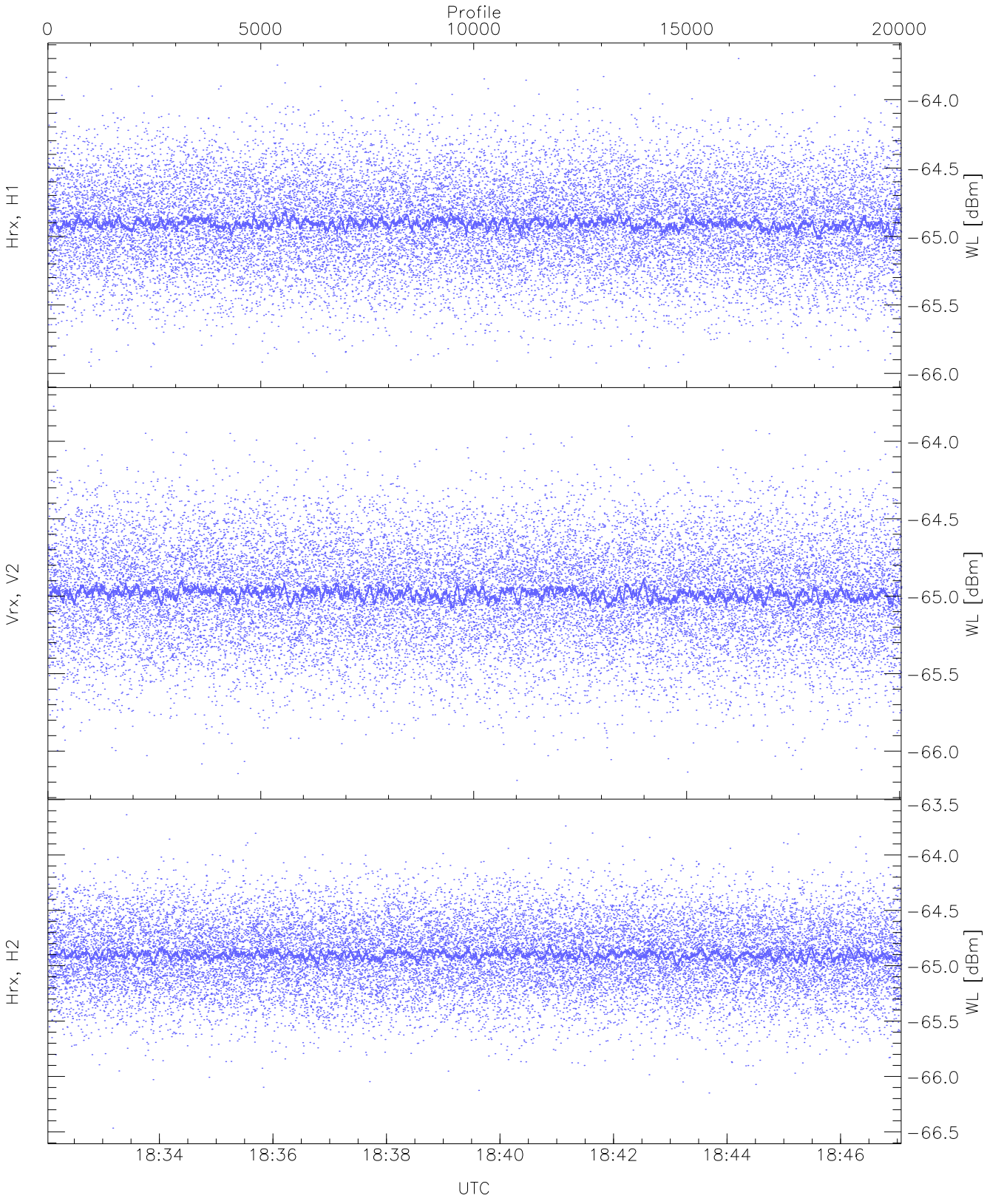

WCR3 CPP Receivers Gain and Noise Figure

Rx Saturation: 1 pixs, 1 gates, 1 profs, 1 prod(s)



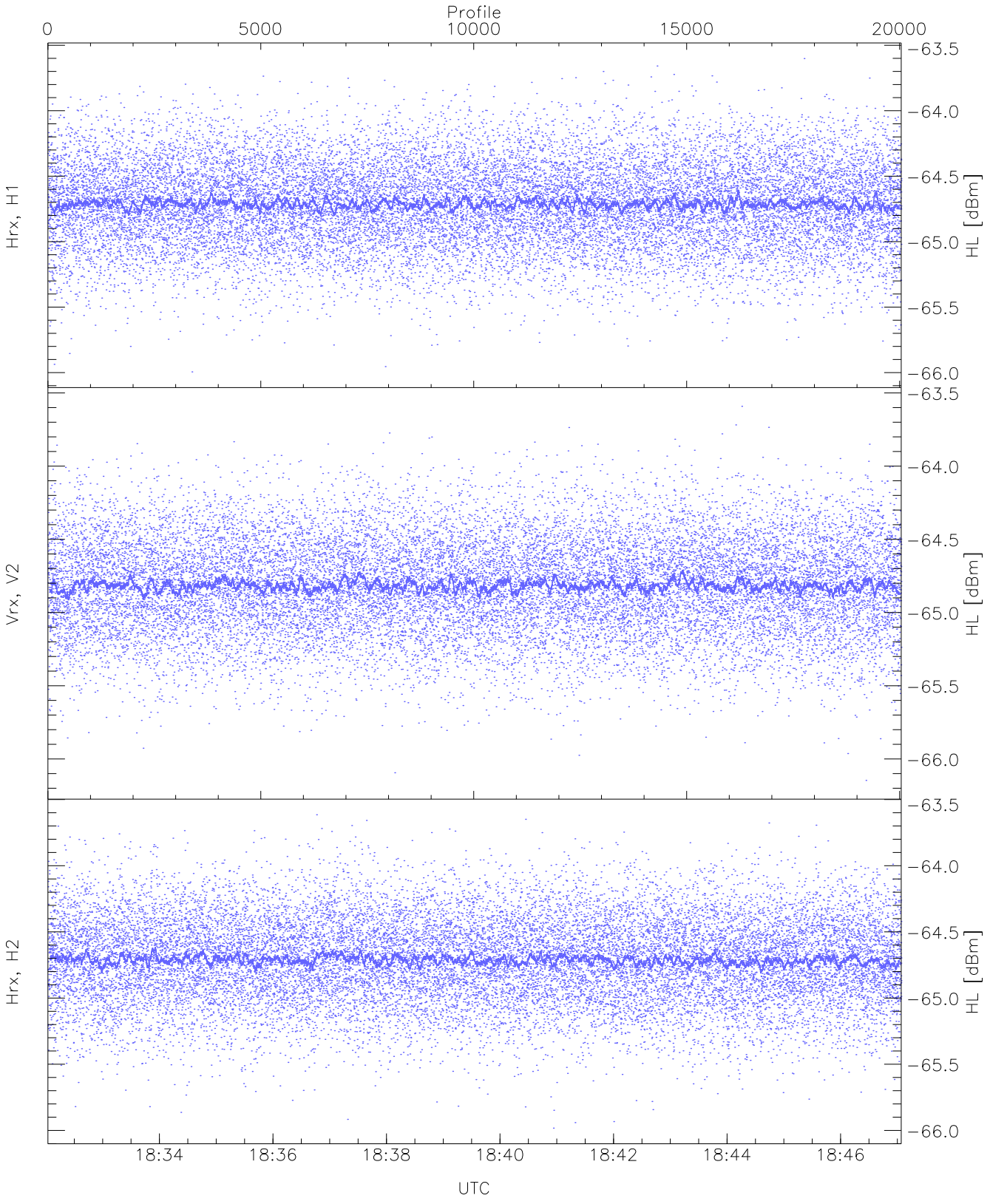

WCR3 CPP RM pulses(Tx is OFF) received power: Mean, StDev(all gates)

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| RMPHrxH1(mean_dBm) | -65.47 | -65.21 | -65.35 | -65.35 | -86.39 |
| RMPHrxH1(std_dBm) | -76.08 | -74.62 | -75.36 | -75.36 | -89.16 |
| RMPVrxV2(mean_dBm) | -65.18 | -64.91 | -65.04 | -65.04 | -86.30 |
| RMPVrxV2(std_dBm) | -75.88 | -74.32 | -75.06 | -75.06 | -88.86 |
| RMPHrxH2(mean_dBm) | -65.05 | -64.80 | -64.92 | -64.92 | -86.33 |
| RMPHrxH2(std_dBm) | -75.62 | -74.28 | -74.94 | -74.94 | -88.75 |



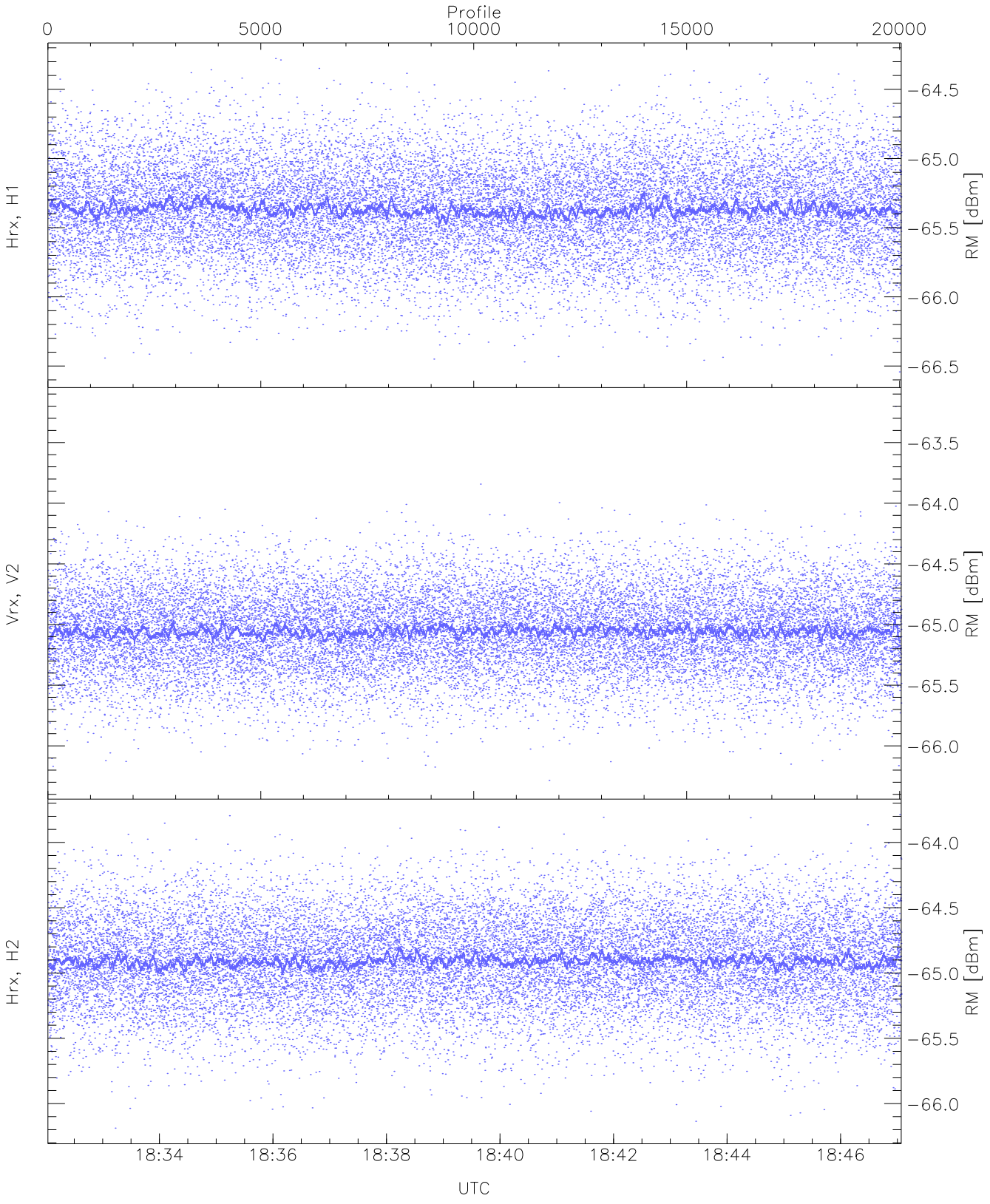

WCR3 CPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(WL [dBm]) | -65.99 | -63.70 | -64.90 | -64.91 | -76.40 |
| Vrx, V2(WL [dBm]) | -66.19 | -63.77 | -64.98 | -64.98 | -76.48 |
| Hrx, H2(WL [dBm]) | -66.47 | -63.64 | -64.90 | -64.90 | -76.42 |



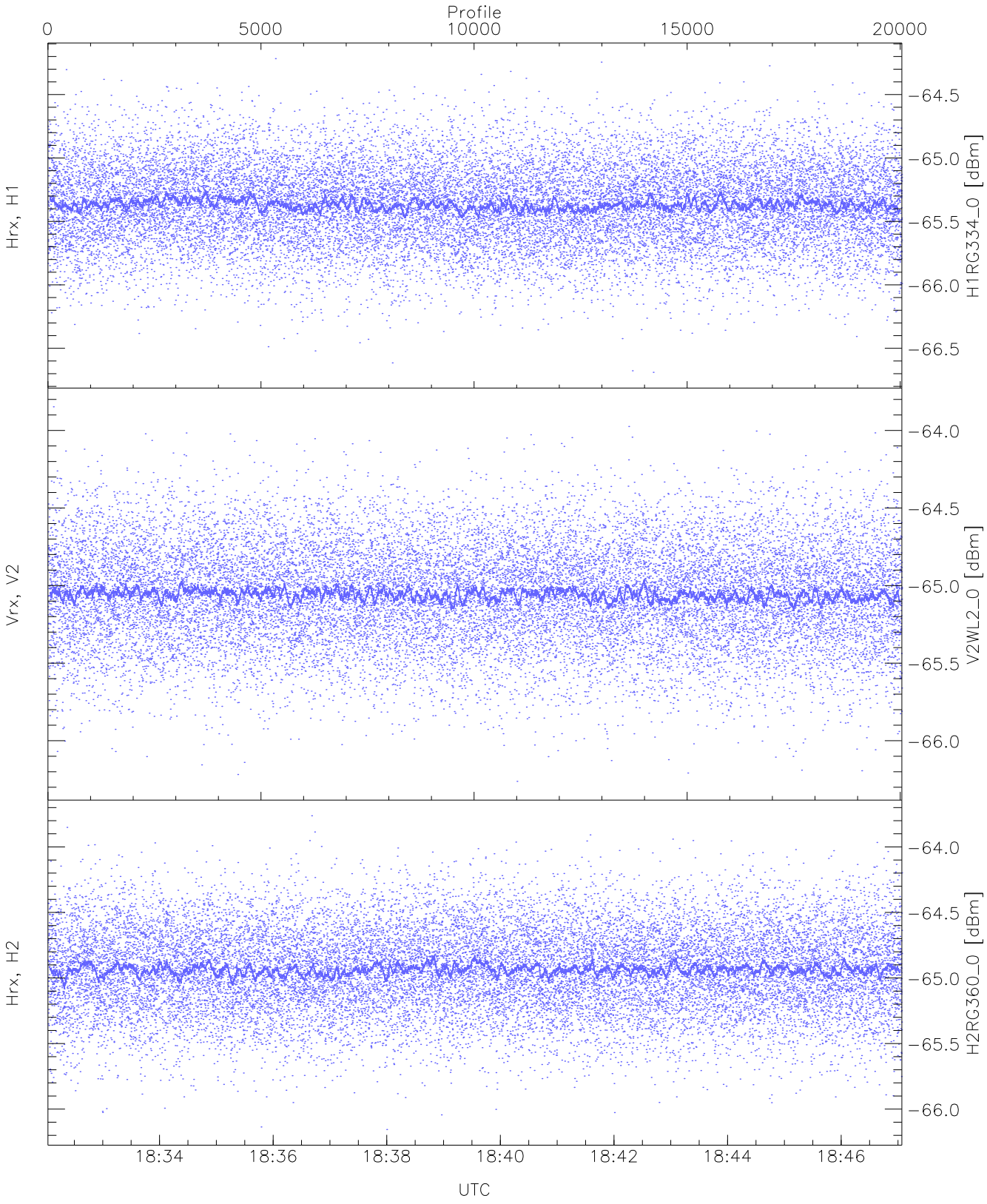

WCR3 CPP Receivers Noise Power from the Hot Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(HL [dBm]) | -65.99 | -63.60 | -64.71 | -64.71 | -76.21 |
| Vrx, V2(HL [dBm]) | -66.15 | -63.59 | -64.81 | -64.82 | -76.28 |
| Hrx, H2(HL [dBm]) | -65.98 | -63.62 | -64.70 | -64.71 | -76.21 |



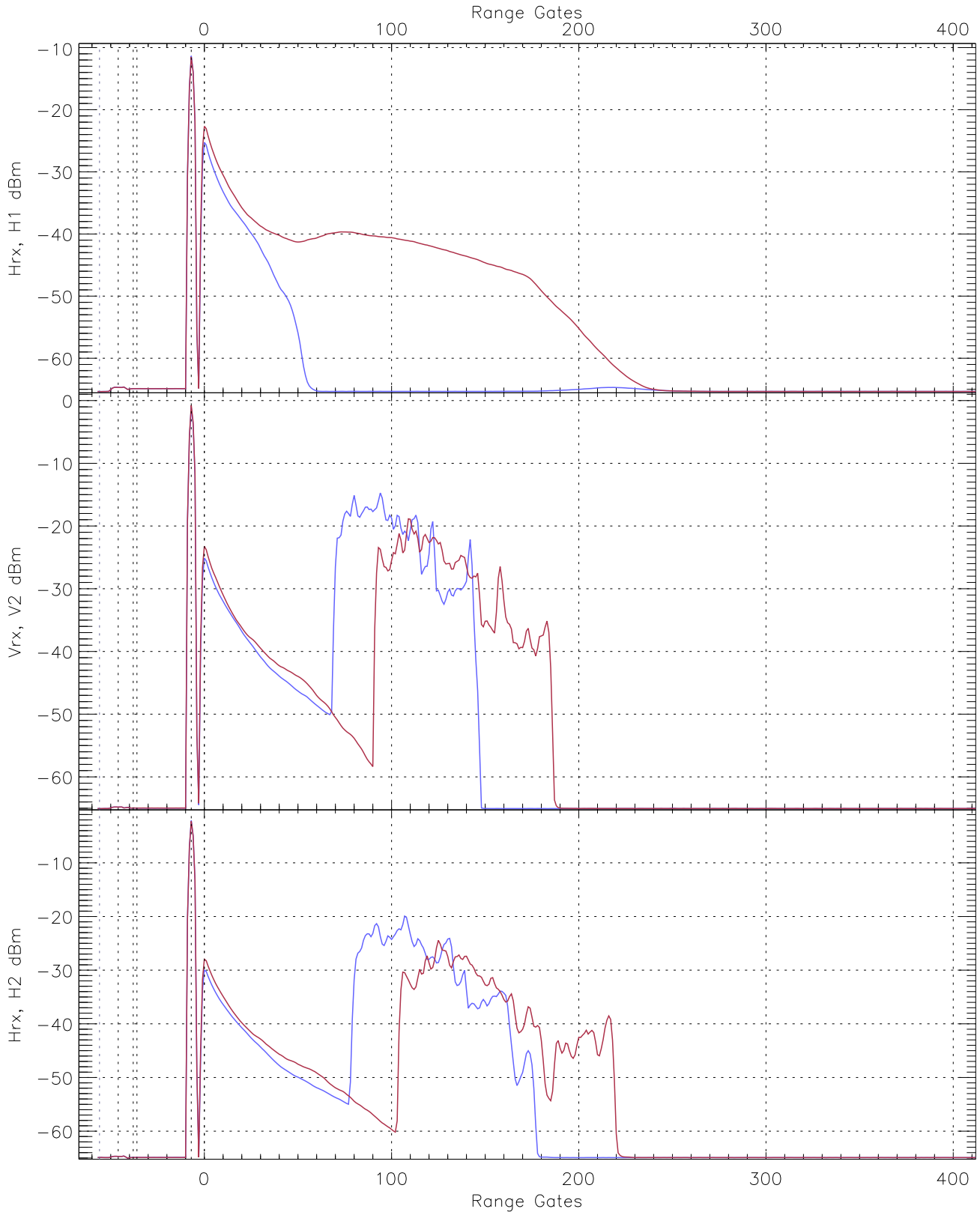

WCR3 CPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(RM [dBm]) | -66.54 | -64.28 | -65.36 | -65.37 | -76.86 |
| Vrx, V2(RM [dBm]) | -66.28 | -63.20 | -65.05 | -65.06 | -76.55 |
| Hrx, H2(RM [dBm]) | -66.19 | -63.79 | -64.90 | -64.91 | -76.38 |

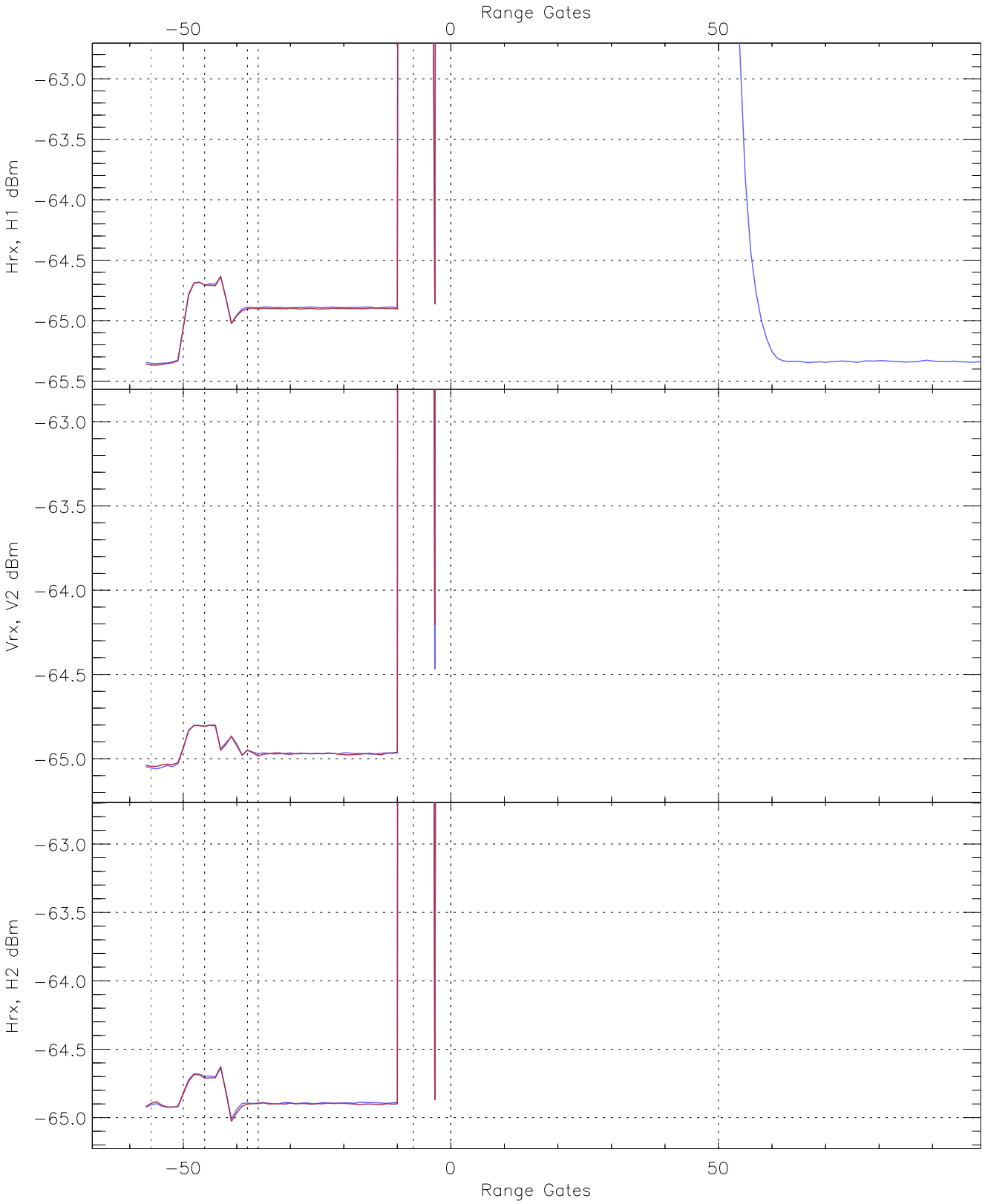



WCR3 CPP "Best" estimate Receivers Noise Power

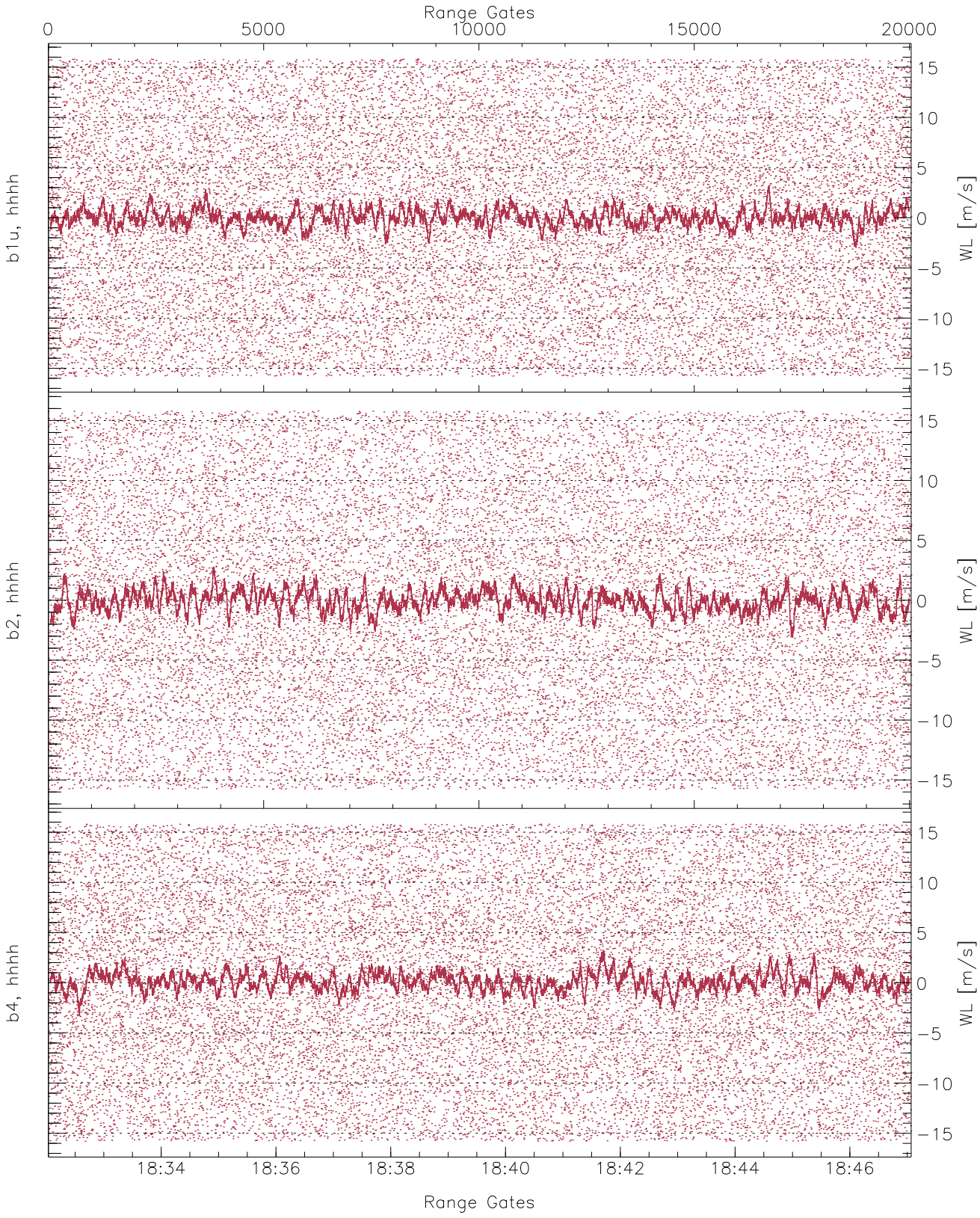
| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| H1RG334_0 [dBm] | -66.69 | -64.22 | -65.36 | -65.37 | -76.88 |
| V2WL2_0 [dBm] | -66.26 | -63.85 | -65.05 | -65.06 | -76.56 |
| H2RG360_0 [dBm] | -66.16 | -63.76 | -64.93 | -64.94 | -76.44 |



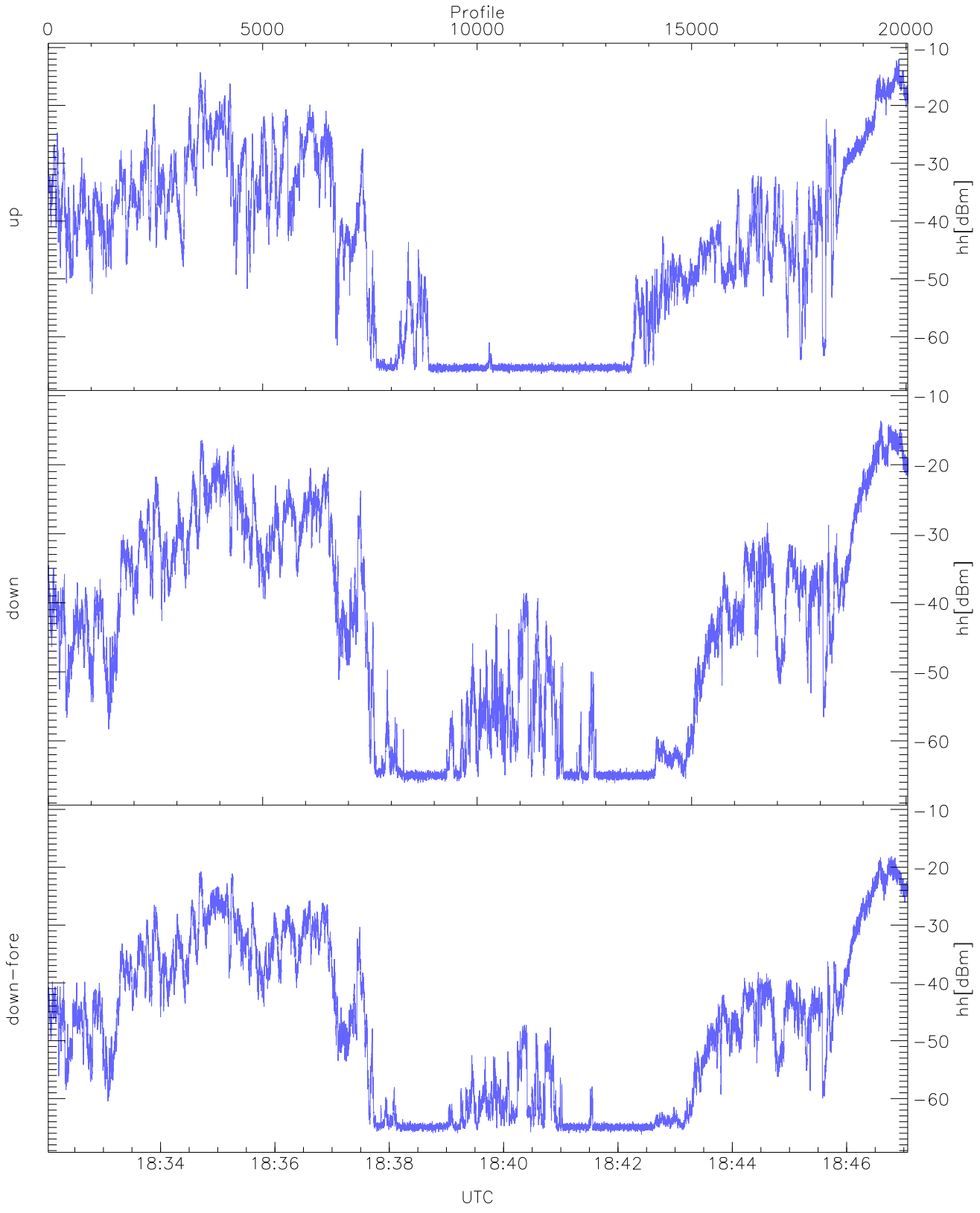

WCR3 CPP Averaged Received power for all recorded gates
blue: 183202-183933, 10021 profiles averaged
red: 183933-184704, 10020 profiles averaged




WCR3 CPP Averaged Received power for the negative gates and up to 100 gate
blue: 183202-183933, 10021 profiles averaged
red: 183933-184704, 10020 profiles averaged

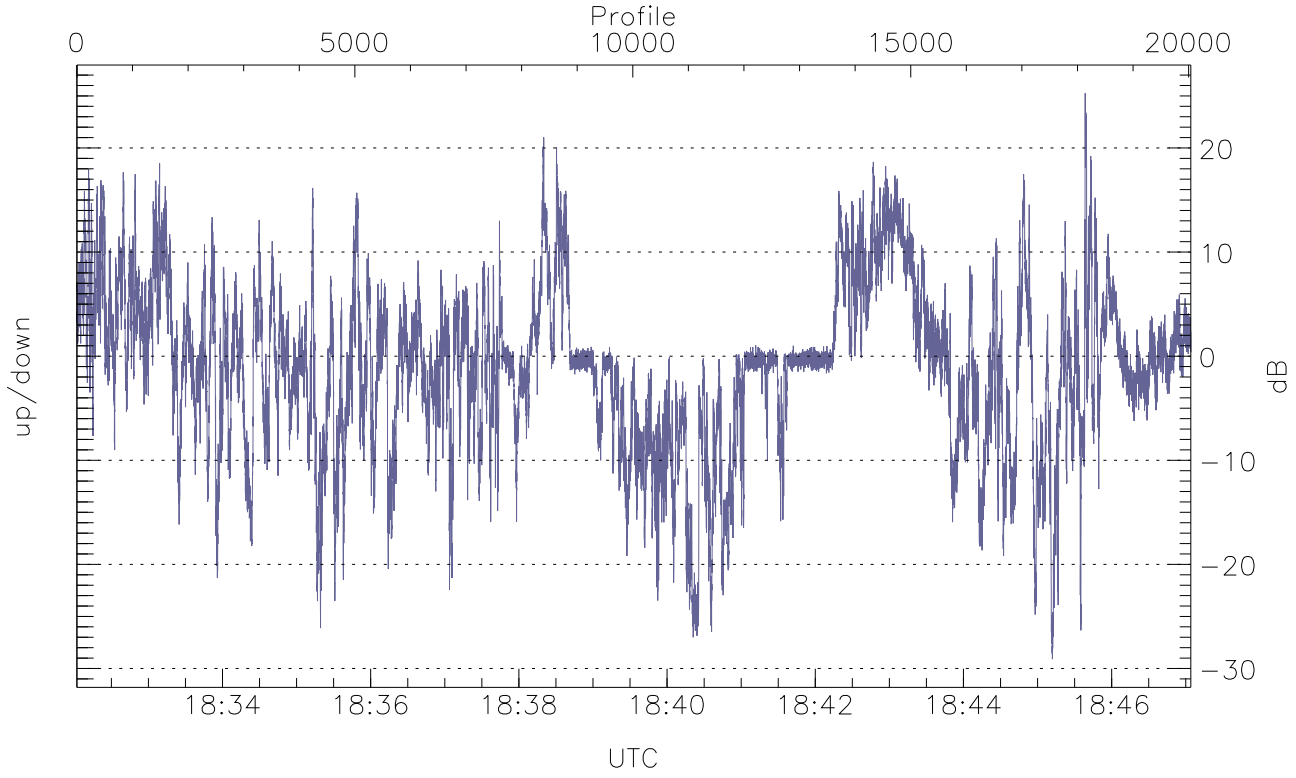


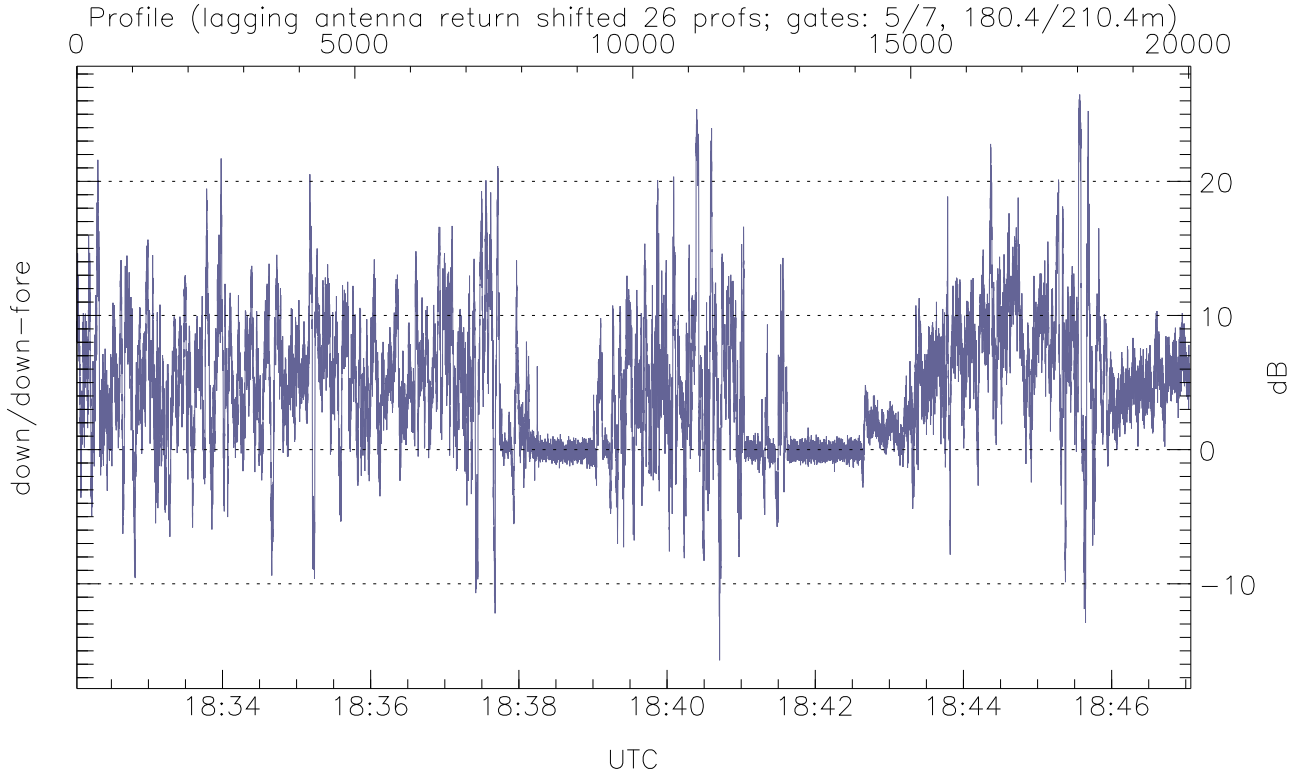

WCR3 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements




WCR3 CPP Received Power Products for Range gate 5 (180.4 m)

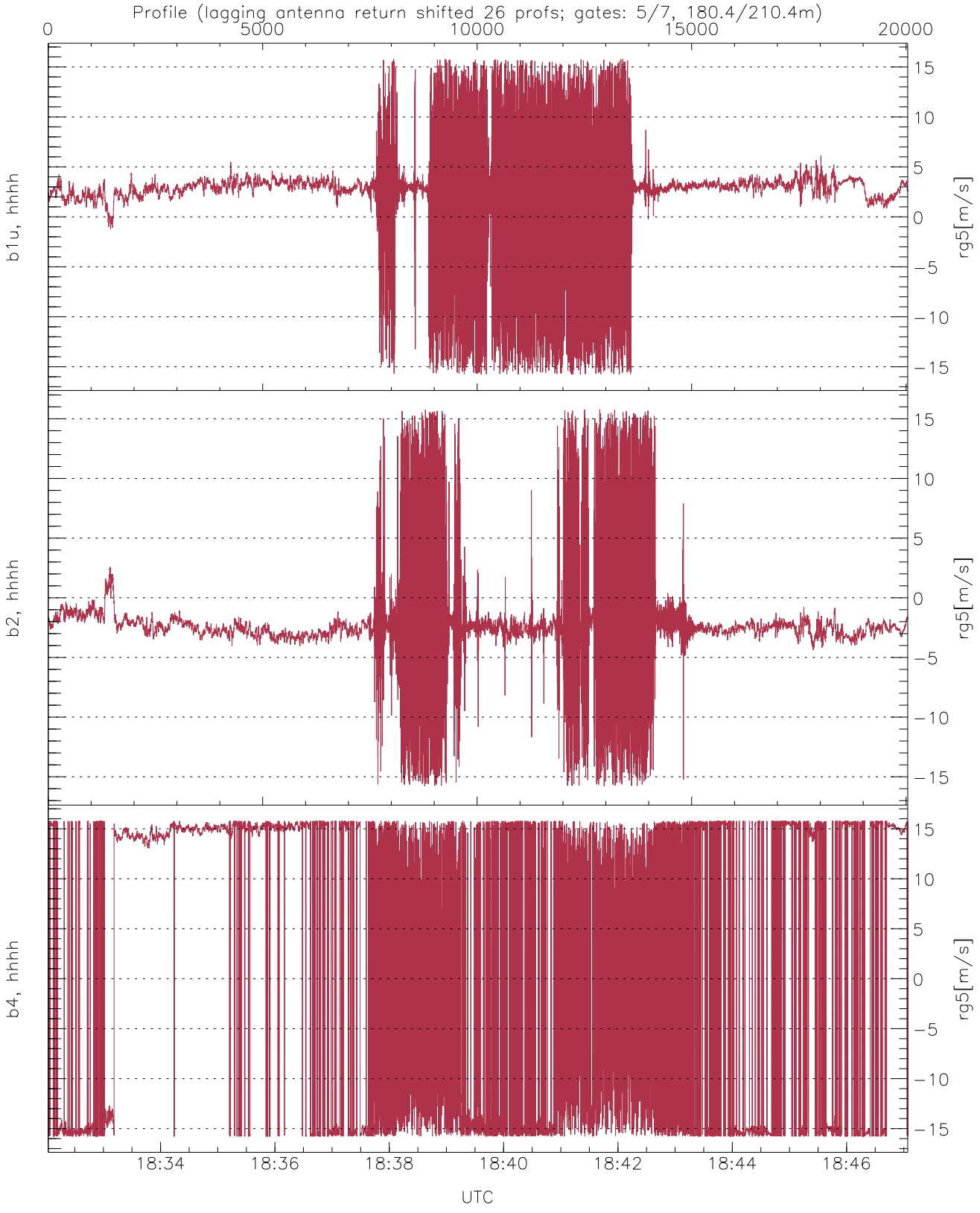
| | Min | Max | Mean |
|---|---|---|---|
| up(hh[dBm]) | -66.57 | -11.98 | -28.16 |
| down(hh[dBm]) | -66.20 | -13.63 | -28.19 |
| down-fore(hh[dBm]) | -66.20 | -18.07 | -32.51 |




WCR3 Beam pairs Received Power Ratio(s); RangeGate: 5 (180 m)

| | Min | Max | Mean |
|---|---|---|---|
| up/down(dB) | -29.09 | 25.25 | -1.08 |
| down/down-fore(dB) | -15.70 | 26.47 | 4.52 |




WCR3 CPP Doppler Velocity Products at 180.4 m range

| | Min | Max | Mean | StDev |
|---|---|---|---|---|
| b1u, hhhh(rg5[m/s]) | -15.78 | 15.79 | 2.18 | 4.50 |
| b2, hhhh(rg5[m/s]) | -15.78 | 15.78 | -2.08 | 3.60 |
| b4, hhhh(rg5[m/s]) | -15.79 | 15.79 | 2.06 | 13.97 |