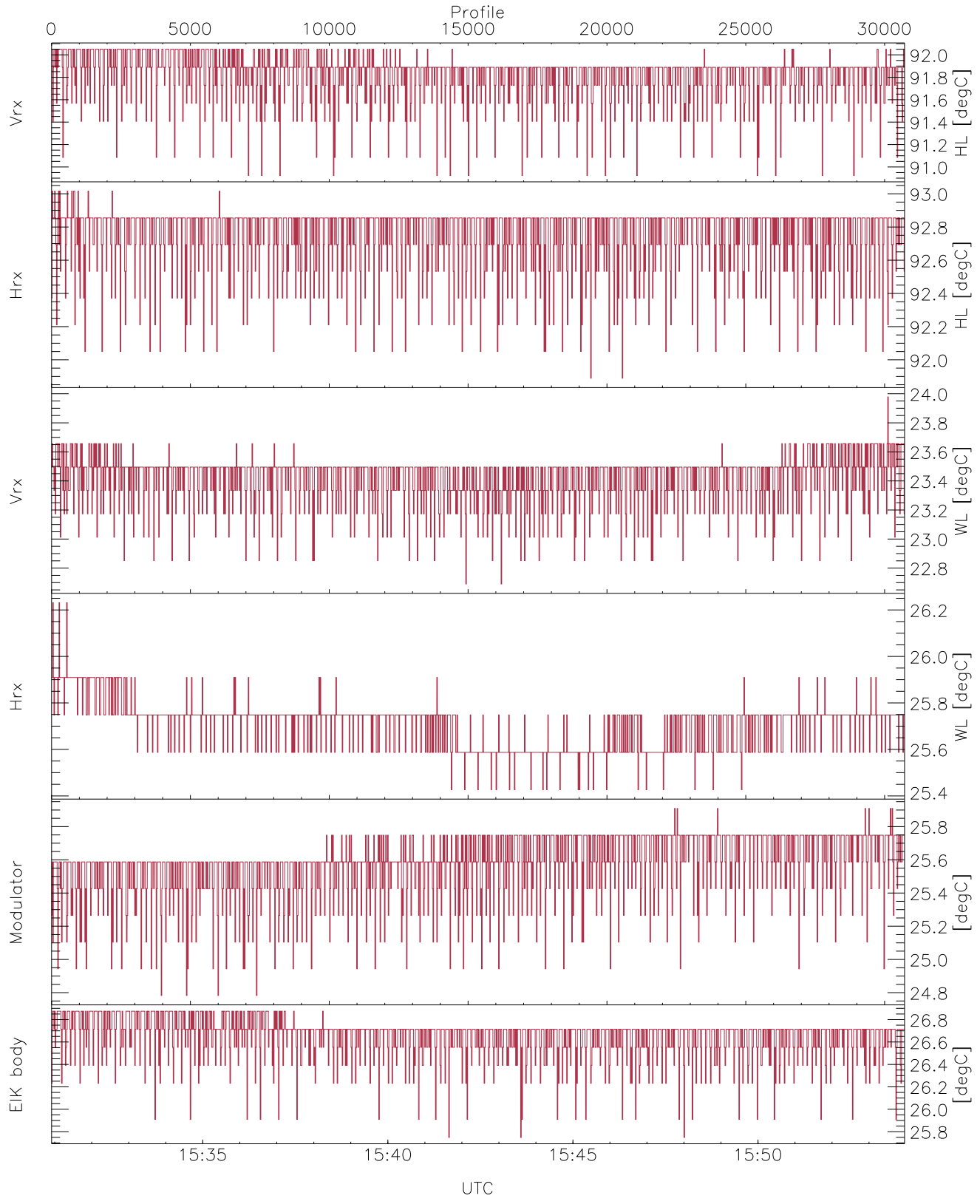
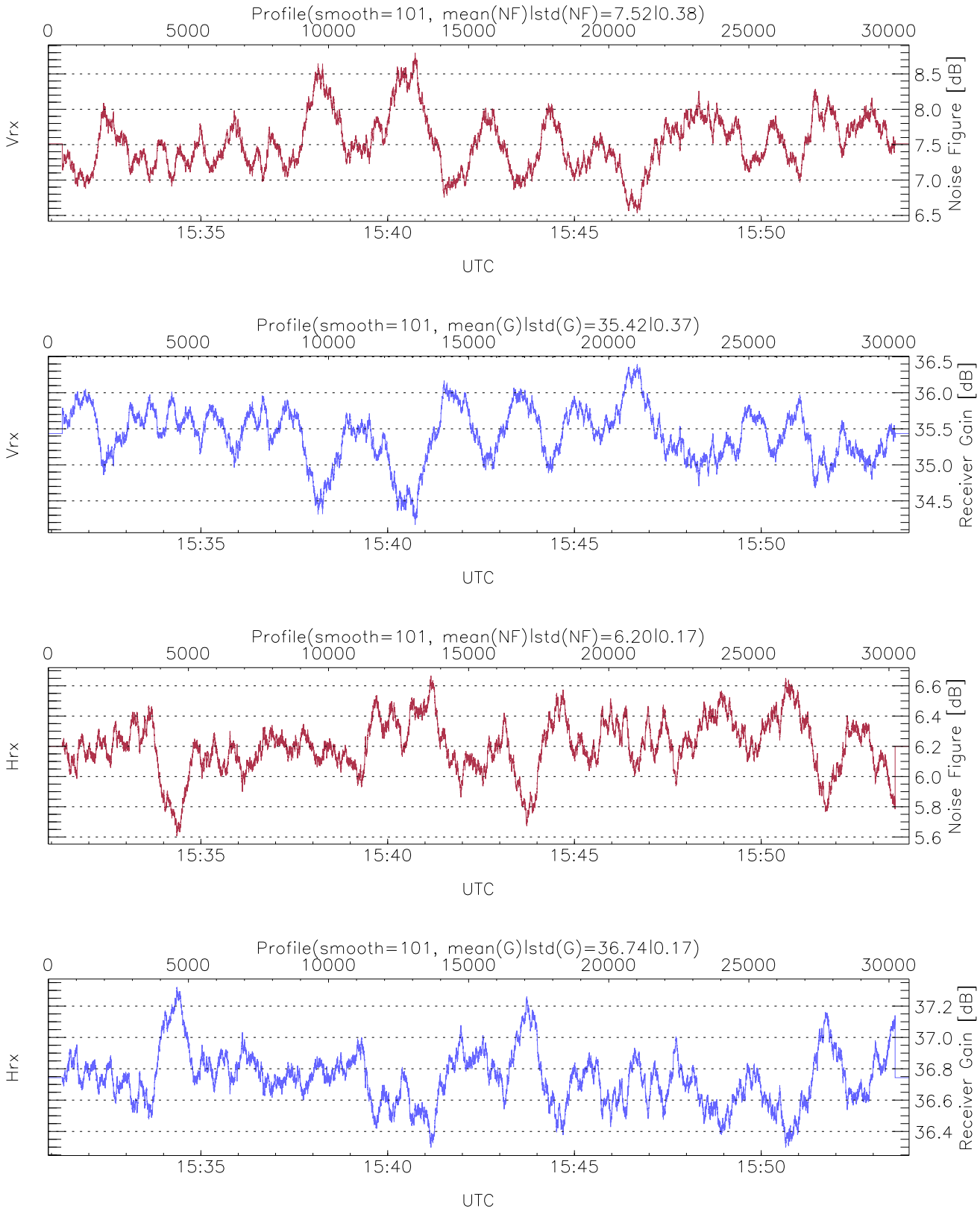

WCR3 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

UTC: 15:30:55-15:53:58, TimeCor: 0.00s, Dur: 1382.70s
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): 30720/30720, 0-30719/15:30:55-15:53:58
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



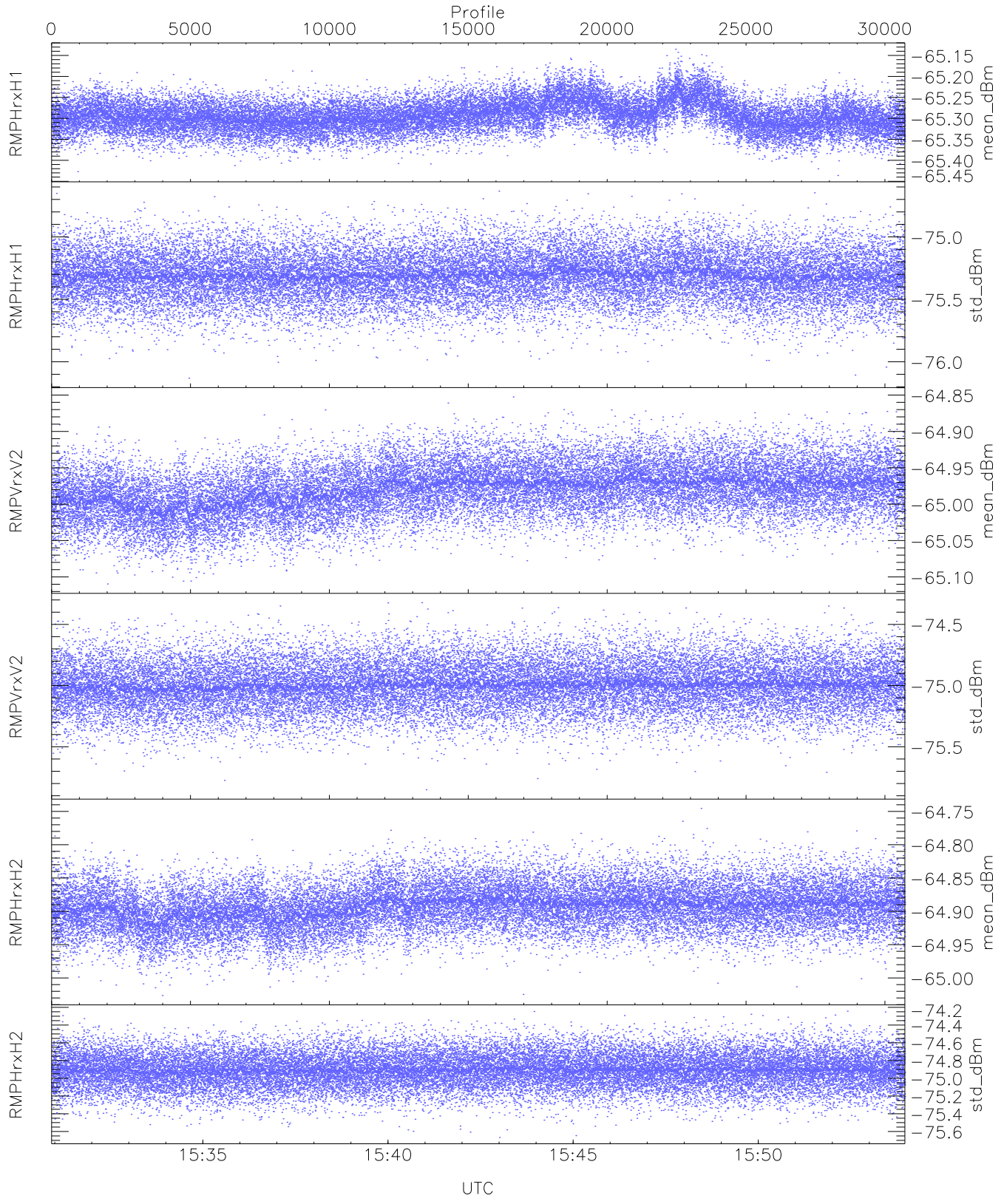

WCR3 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 90,91,22,25,24,25
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,93,23,26,25,26
LOalarm(20,240,2817,14861 MHz): None
EIK Faults(# prof affected):
BodyCurr,DeckF,OverDuty,HVPS (24,24,24,24)



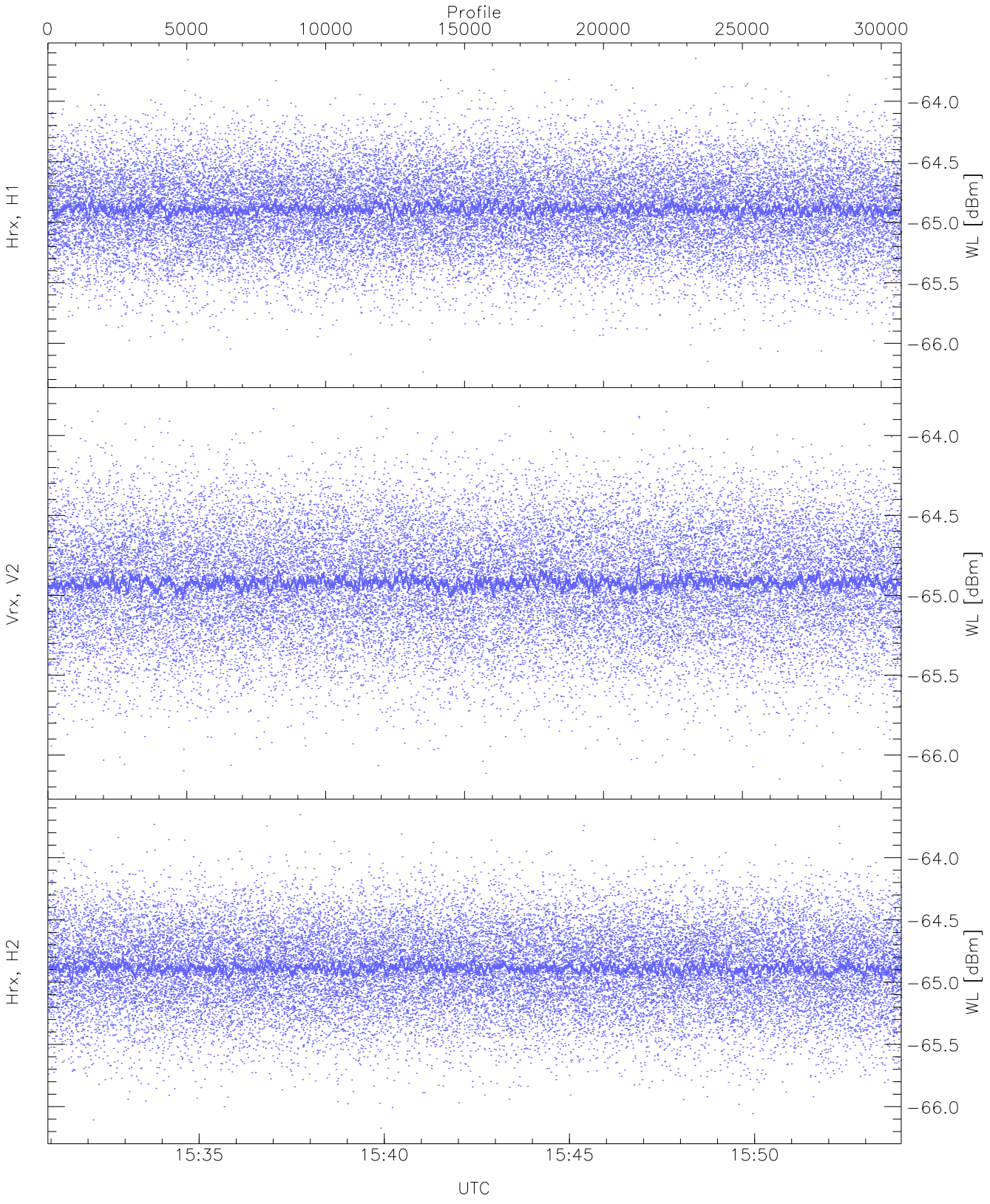

WCR3 CPP Receivers Gain and Noise Figure

Rx Saturation: 0 pixs, 0 gates, 0 profs, 0 prod(s)



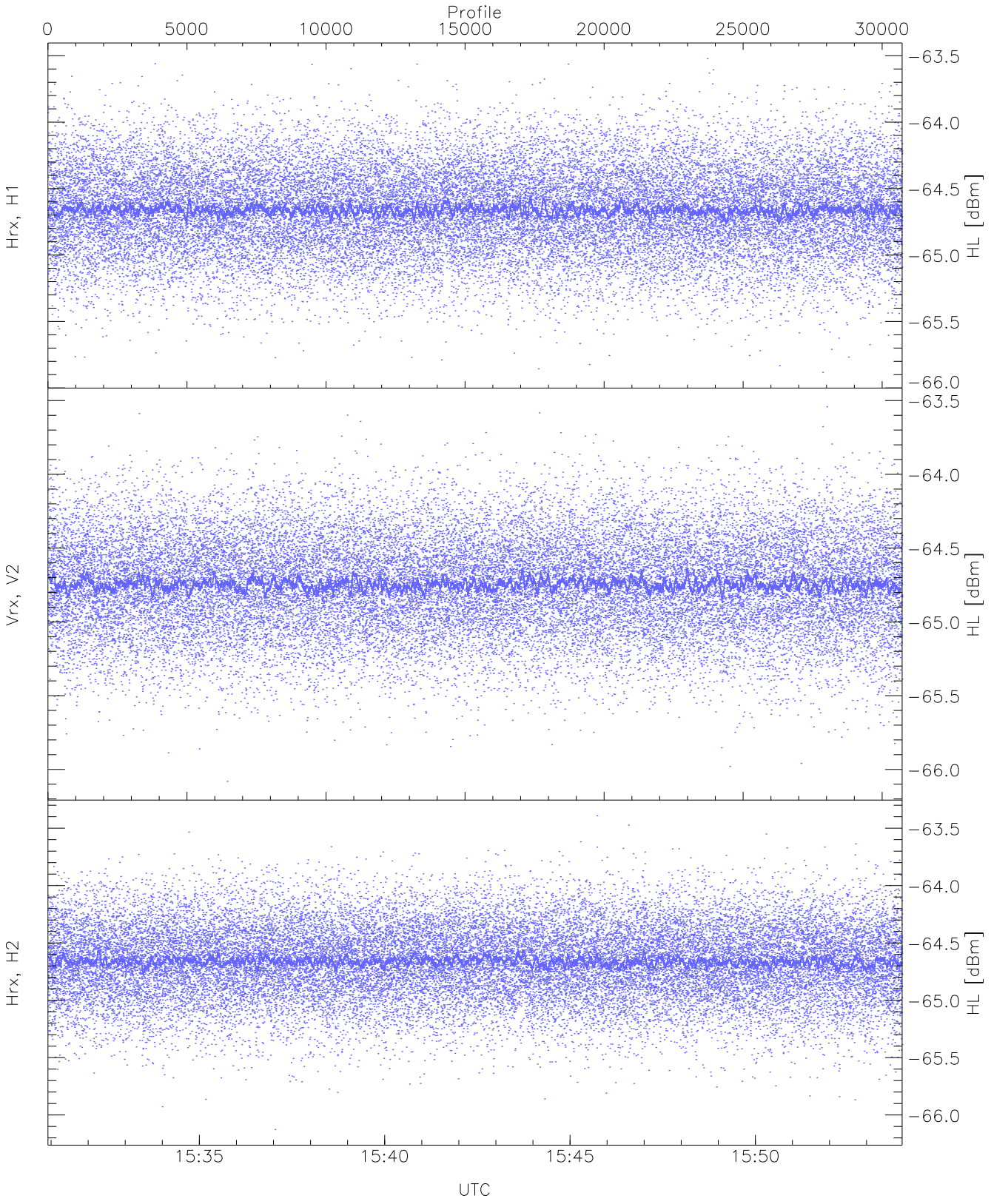

WCR3 CPP RM pulses(Tx is OFF) received power: Mean, StDev(all gates)

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| RMPHrxH1(mean_dBm) | -65.44 | -65.14 | -65.29 | -65.29 | -86.16 |
| RMPHrxH1(std_dBm) | -76.13 | -74.63 | -75.31 | -75.31 | -89.08 |
| RMPVrxV2(mean_dBm) | -65.11 | -64.85 | -64.98 | -64.98 | -86.12 |
| RMPVrxV2(std_dBm) | -75.85 | -74.32 | -75.00 | -75.00 | -88.75 |
| RMPHrxH2(mean_dBm) | -65.03 | -64.75 | -64.89 | -64.89 | -86.25 |
| RMPHrxH2(std_dBm) | -75.67 | -74.24 | -74.91 | -74.91 | -88.70 |



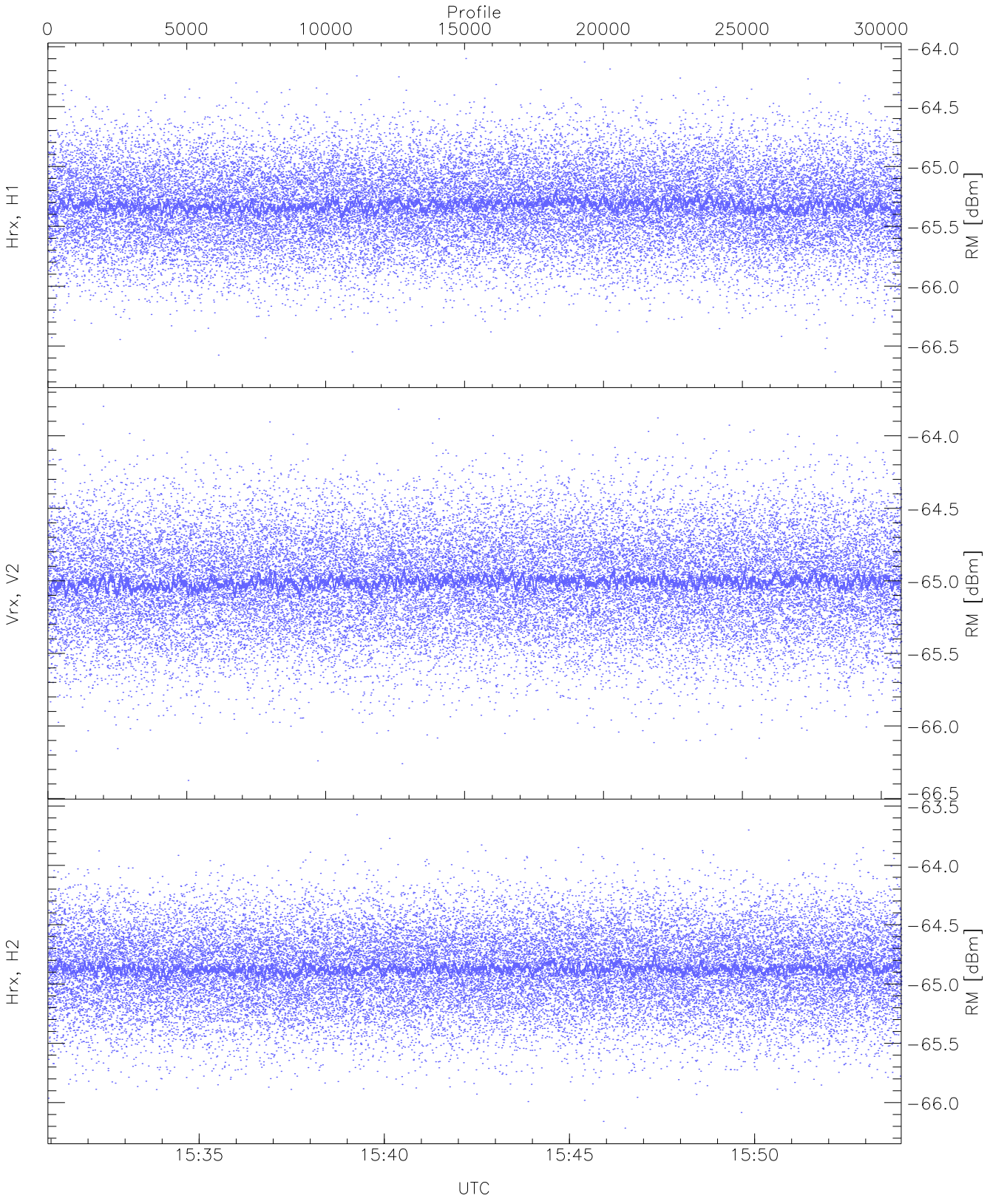

WCR3 CPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(WL [dBm]) | -66.24 | -63.65 | -64.88 | -64.89 | -76.36 |
| Vrx, V2(WL [dBm]) | -66.16 | -63.82 | -64.91 | -64.92 | -76.42 |
| Hrx, H2(WL [dBm]) | -66.17 | -63.66 | -64.88 | -64.89 | -76.38 |



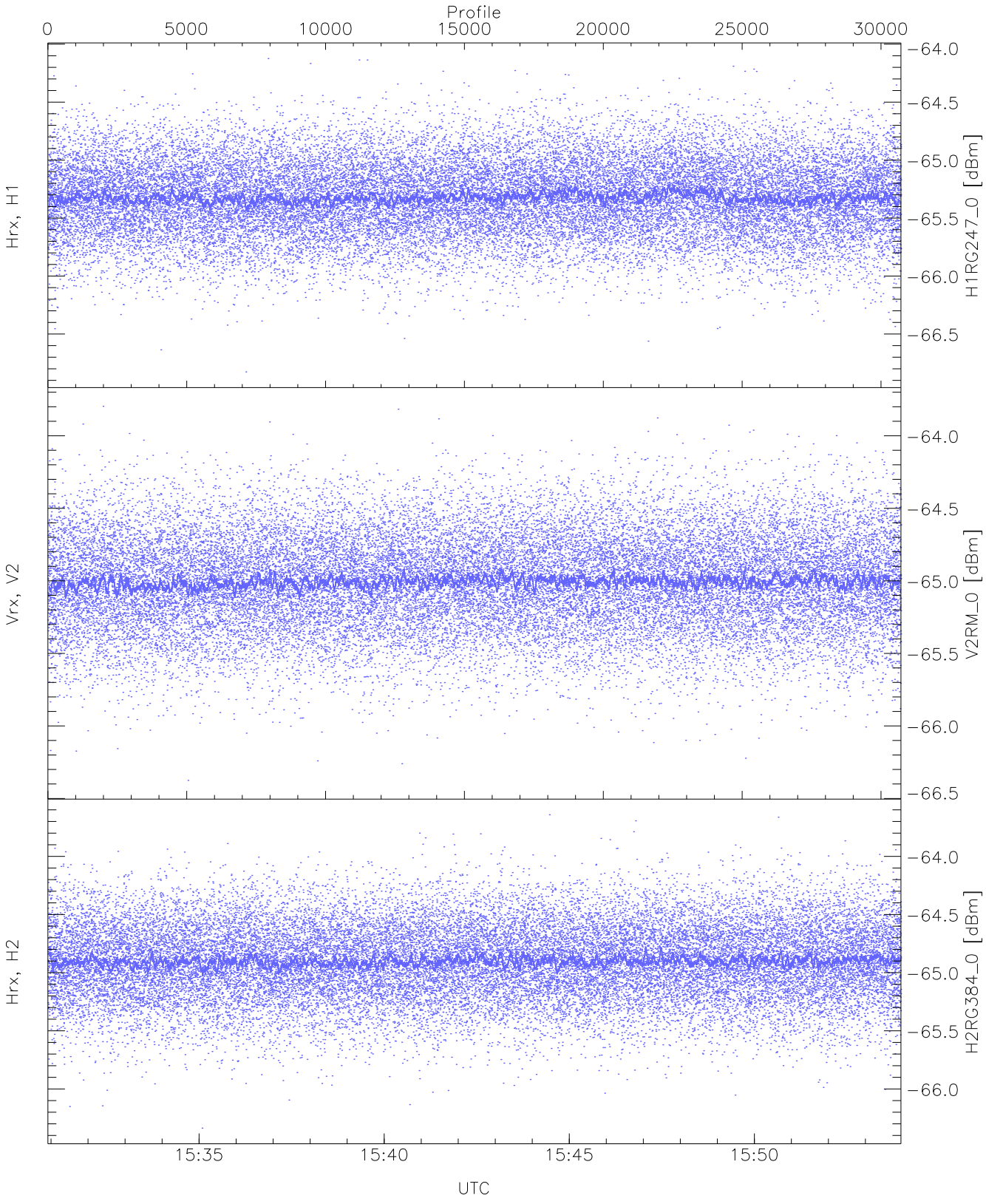

WCR3 CPP Receivers Noise Power from the Hot Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(HL [dBm]) | -65.88 | -63.52 | -64.65 | -64.66 | -76.17 |
| Vrx, V2(HL [dBm]) | -66.08 | -63.54 | -64.74 | -64.74 | -76.24 |
| Hrx, H2(HL [dBm]) | -66.13 | -63.39 | -64.65 | -64.66 | -76.15 |



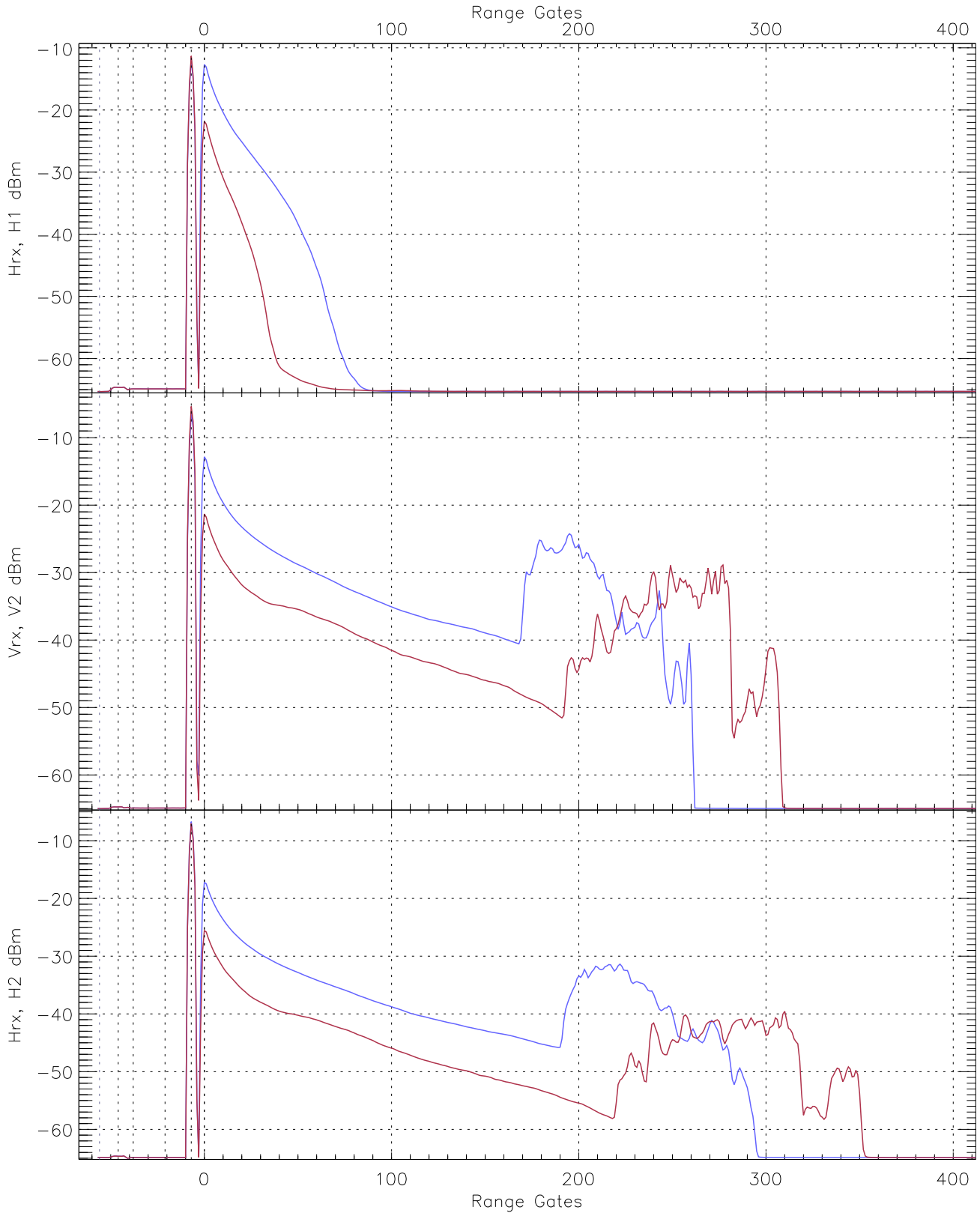

WCR3 CPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(RM [dBm]) | -66.72 | -64.10 | -65.32 | -65.33 | -76.84 |
| Vrx, V2(RM [dBm]) | -66.38 | -63.80 | -65.00 | -65.01 | -76.52 |
| Hrx, H2(RM [dBm]) | -66.21 | -63.57 | -64.87 | -64.87 | -76.39 |

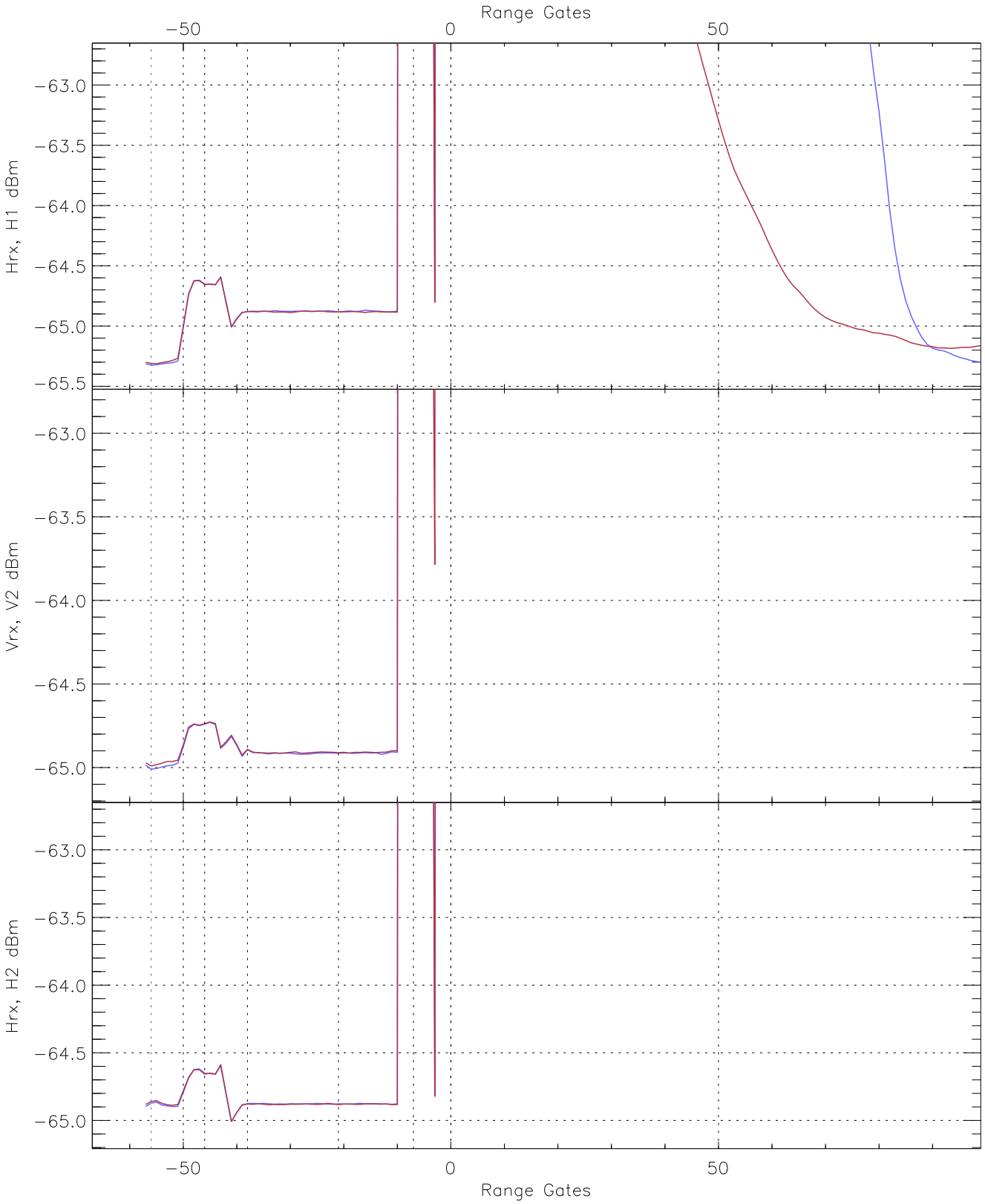



WCR3 CPP "Best" estimate Receivers Noise Power

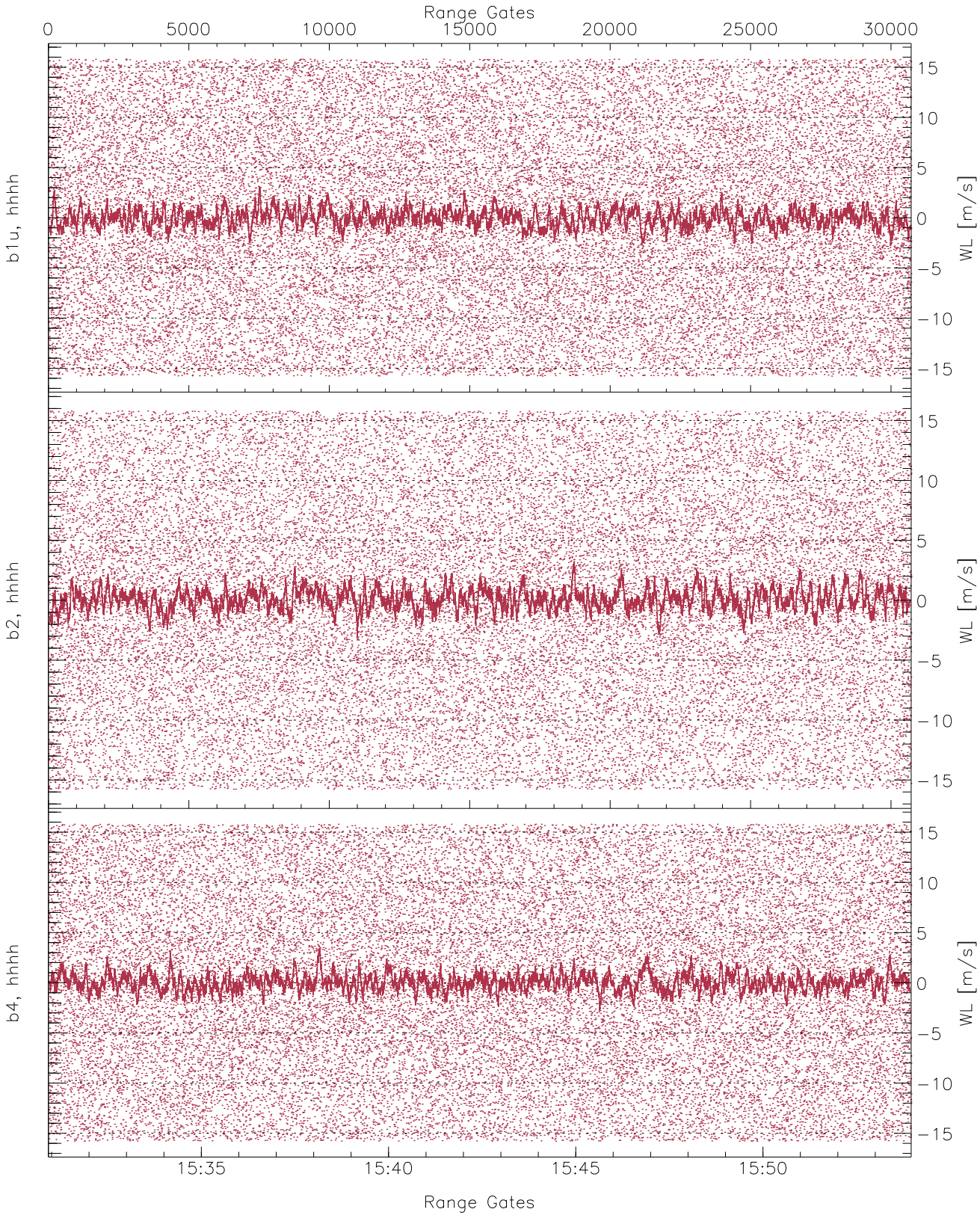
| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| H1RG247_0 [dBm] | -66.83 | -64.12 | -65.32 | -65.32 | -76.81 |
| V2RM_0 [dBm] | -66.38 | -63.80 | -65.00 | -65.01 | -76.52 |
| H2RG384_0 [dBm] | -66.34 | -63.64 | -64.89 | -64.90 | -76.38 |



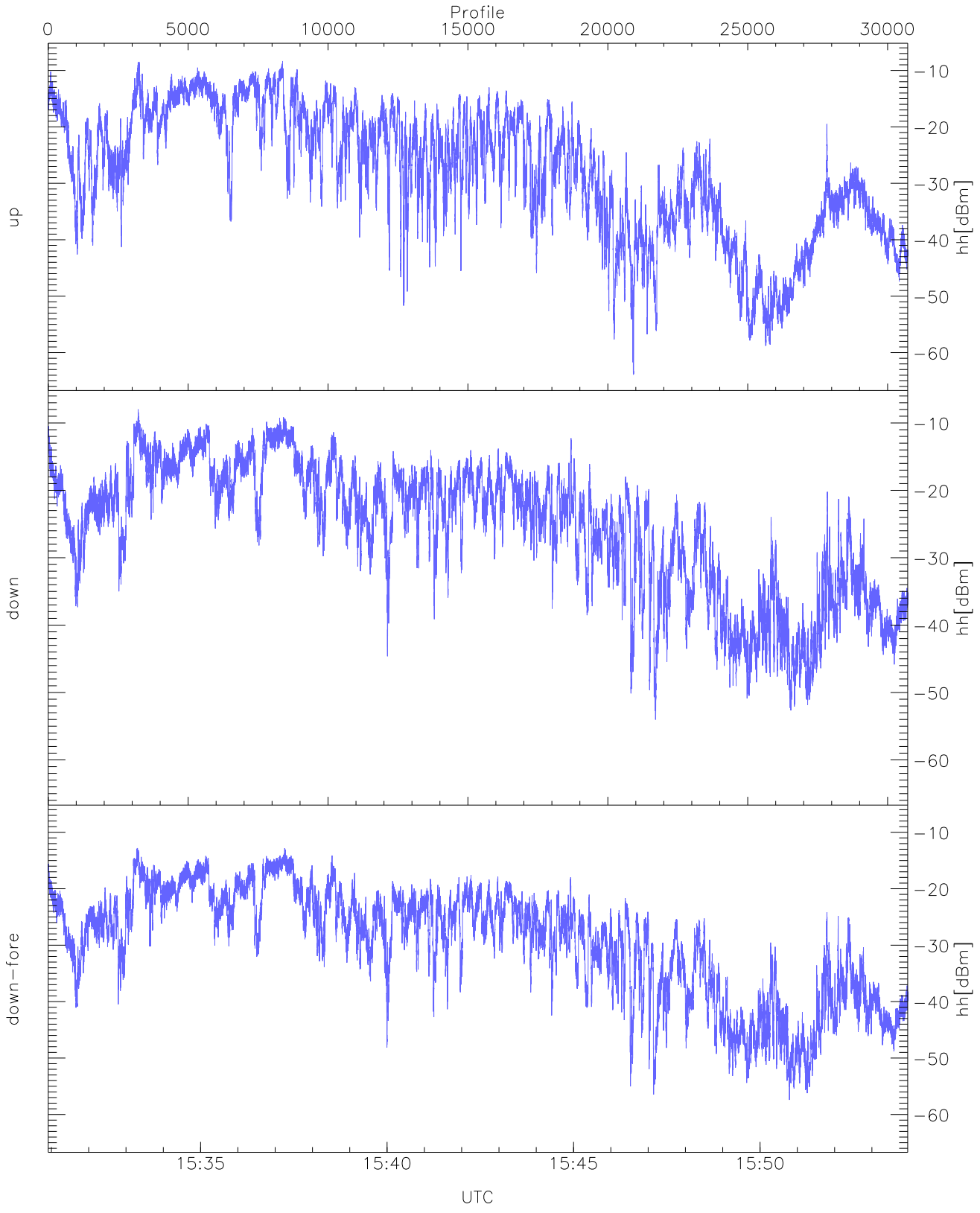

WCR3 CPP Averaged Received power for all recorded gates
blue: 153055-154226, 15361 profiles averaged
red: 154226-155358, 15360 profiles averaged




WCR3 CPP Averaged Received power for the negative gates and up to 100 gate
blue: 153055-154226, 15361 profiles averaged
red: 154226-155358, 15360 profiles averaged

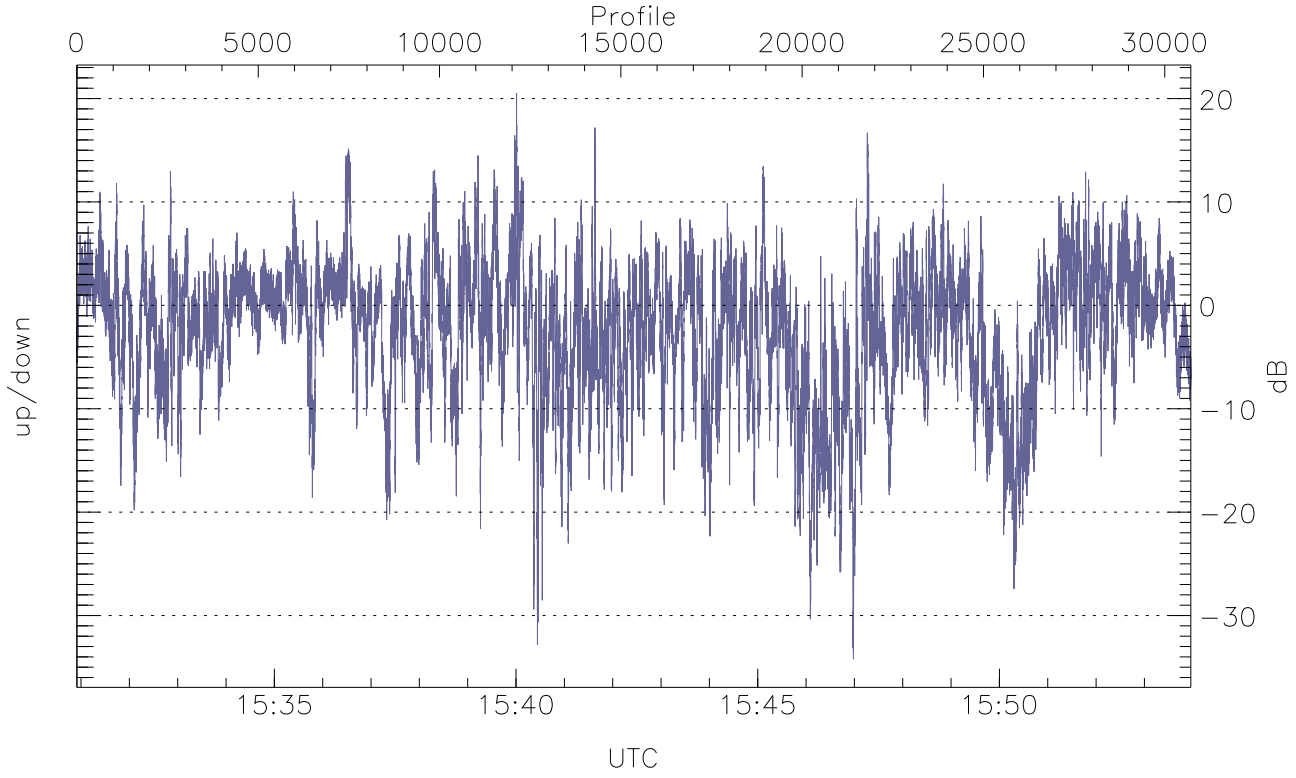


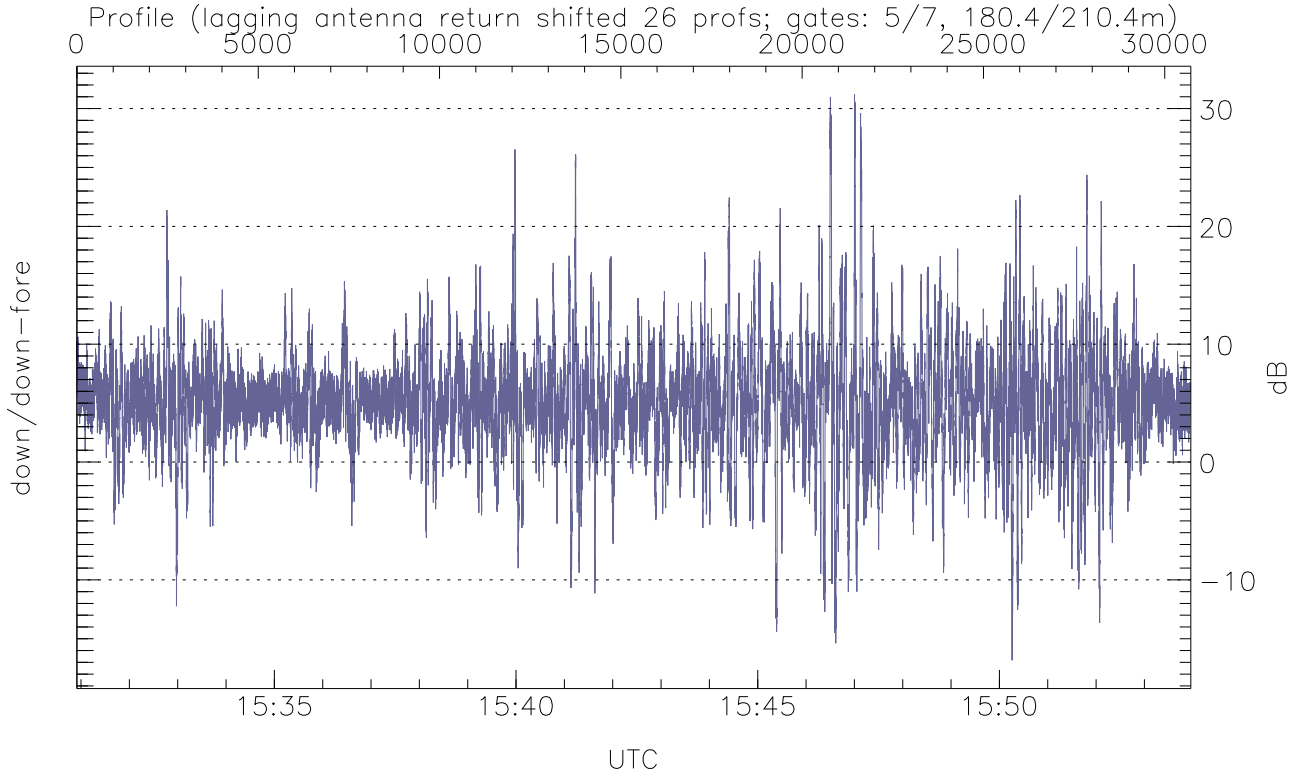

WCR3 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements




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

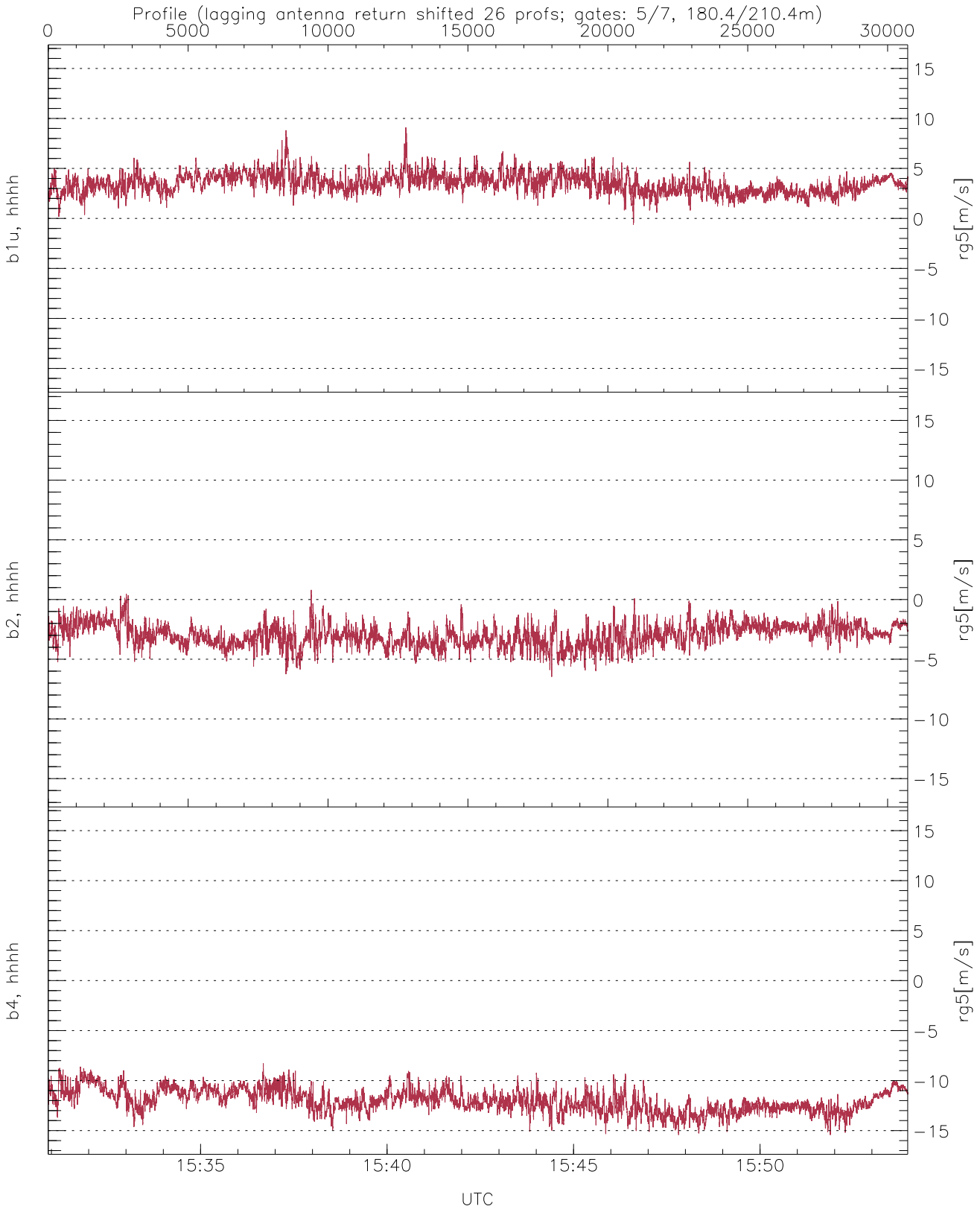
| | Min | Max | Mean |
|---|---|---|---|
| up(hh[dBm]) | -63.91 | -8.33 | -19.57 |
| down(hh[dBm]) | -54.02 | -7.98 | -19.21 |
| down-fore(hh[dBm]) | -57.41 | -12.81 | -23.23 |




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

| | Min | Max | Mean |
|---|---|---|---|
| up/down(dB) | -34.21 | 20.51 | -2.42 |
| down/down-fore(dB) | -16.83 | 31.19 | 5.10 |




WCR3 CPP Doppler Velocity Products at 180.4 m range

| | Min | Max | Mean | StDev |
|---|---|---|---|---|
| b1u, hhhh(rg5[m/s]) | -0.65 | 9.11 | 3.49 | 0.95 |
| b2, hhhh(rg5[m/s]) | -6.48 | 0.81 | -2.96 | 0.92 |
| b4, hhhh(rg5[m/s]) | -15.44 | -8.28 | -12.01 | 1.12 |