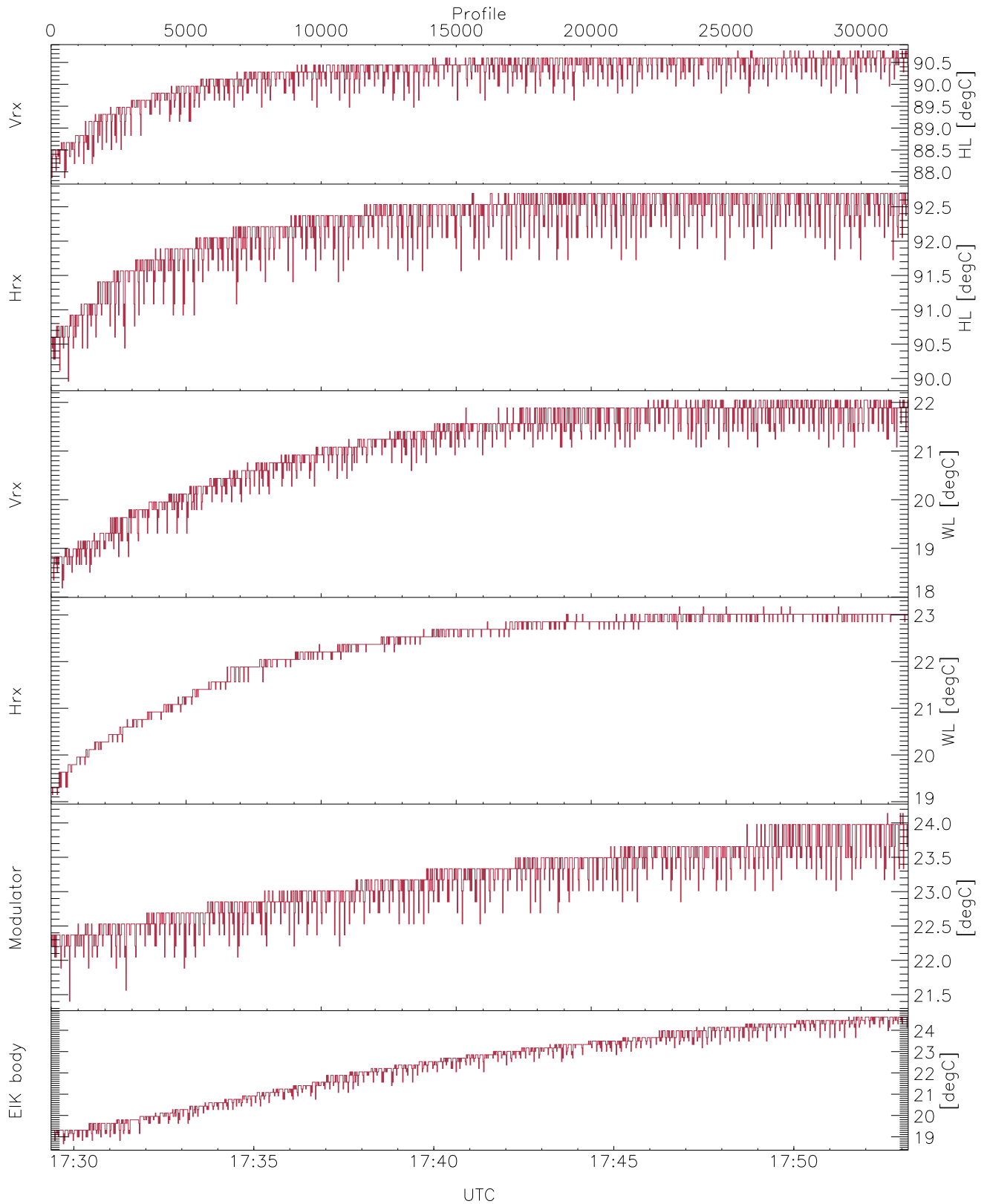


WCR3 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

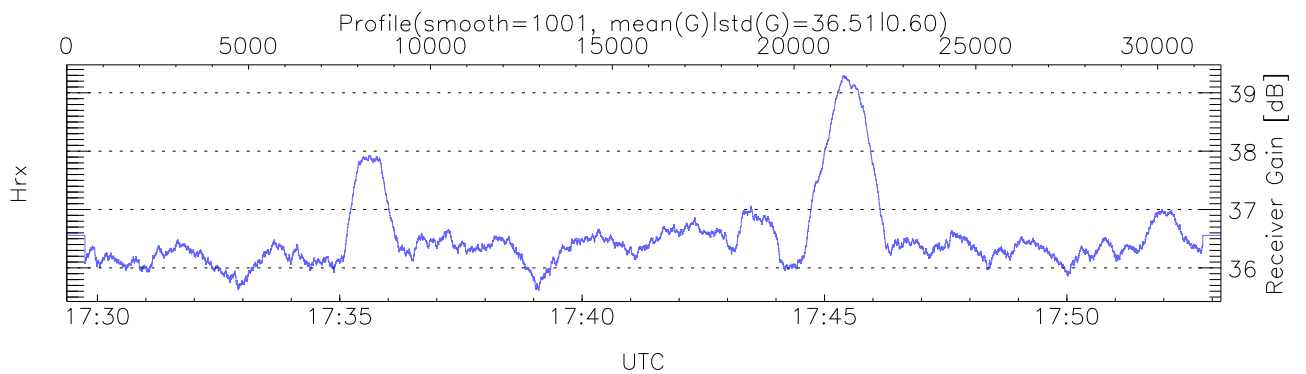
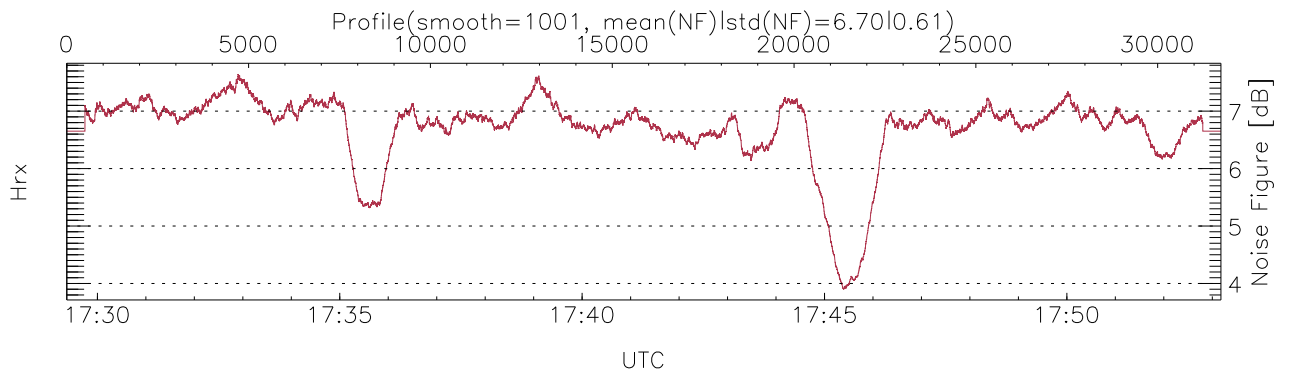
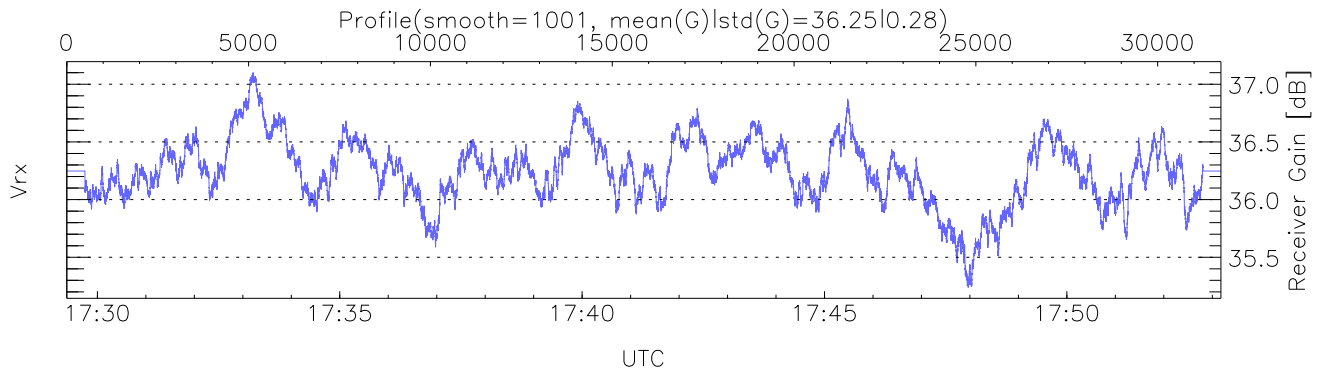
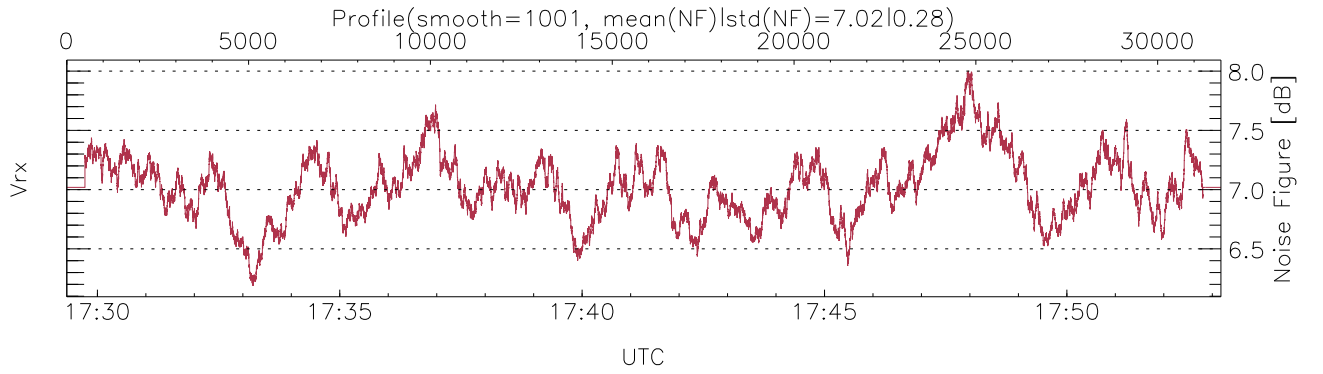
UTC: 17:29:22-17:53:11, TimeCor: 0.00s, Dur: 1428.66s
 TimeFlg: 1, TFPstatus constant.
 TimeInt/PPS(min,max,mn,std): 45.0,45.0,45.0,0.0 ms / 22.2,22.2,22.2
 NumRec(r/t): 31741/31741, 0-31740/17:29:22-17:53:11
 AcqTime: 45.0ms, Rate: 0.490MB/s, Averages (req.,actual): 100,100
 Pulse: 250ns, IFF: 4.0MHz, 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,rqs): 105, 6288, 15.0 m, Gates: 413, Aspect: 3.7
 Mirror(-9|0|1|2,3,9x = no mirror|sidelup|error): 1



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

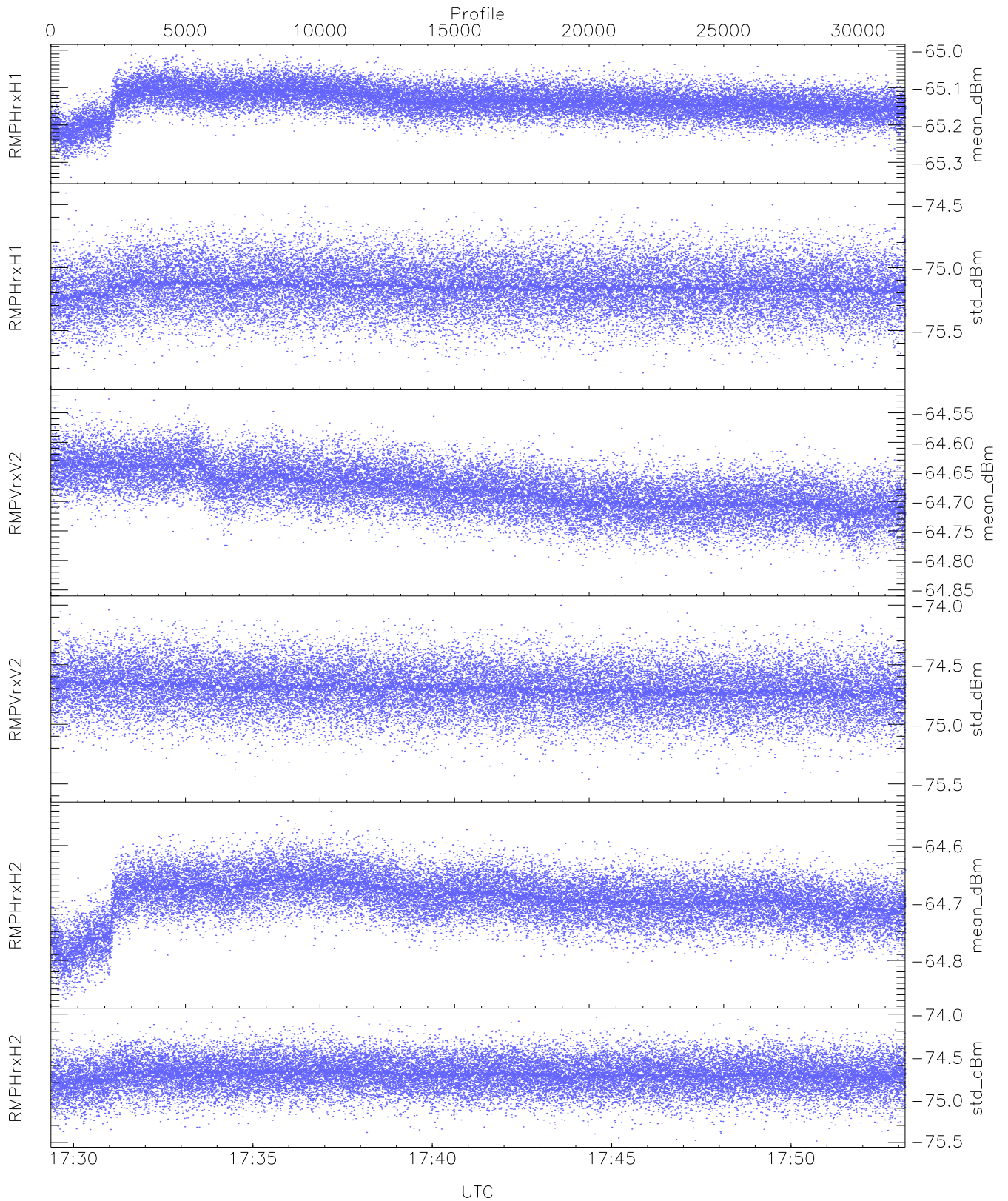
mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 87,89,18,19,21,18
 maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 90,92,22,23,24,24
 LOalarm(20,240,2817,14861 MHz): None

EIK Faults(# prof affected):
 DeckT,CollT,BodyCurr,Fault2,DeckF,OverDuty,HVPS,Fault1 (66,66,88,44,88,88,66,44)



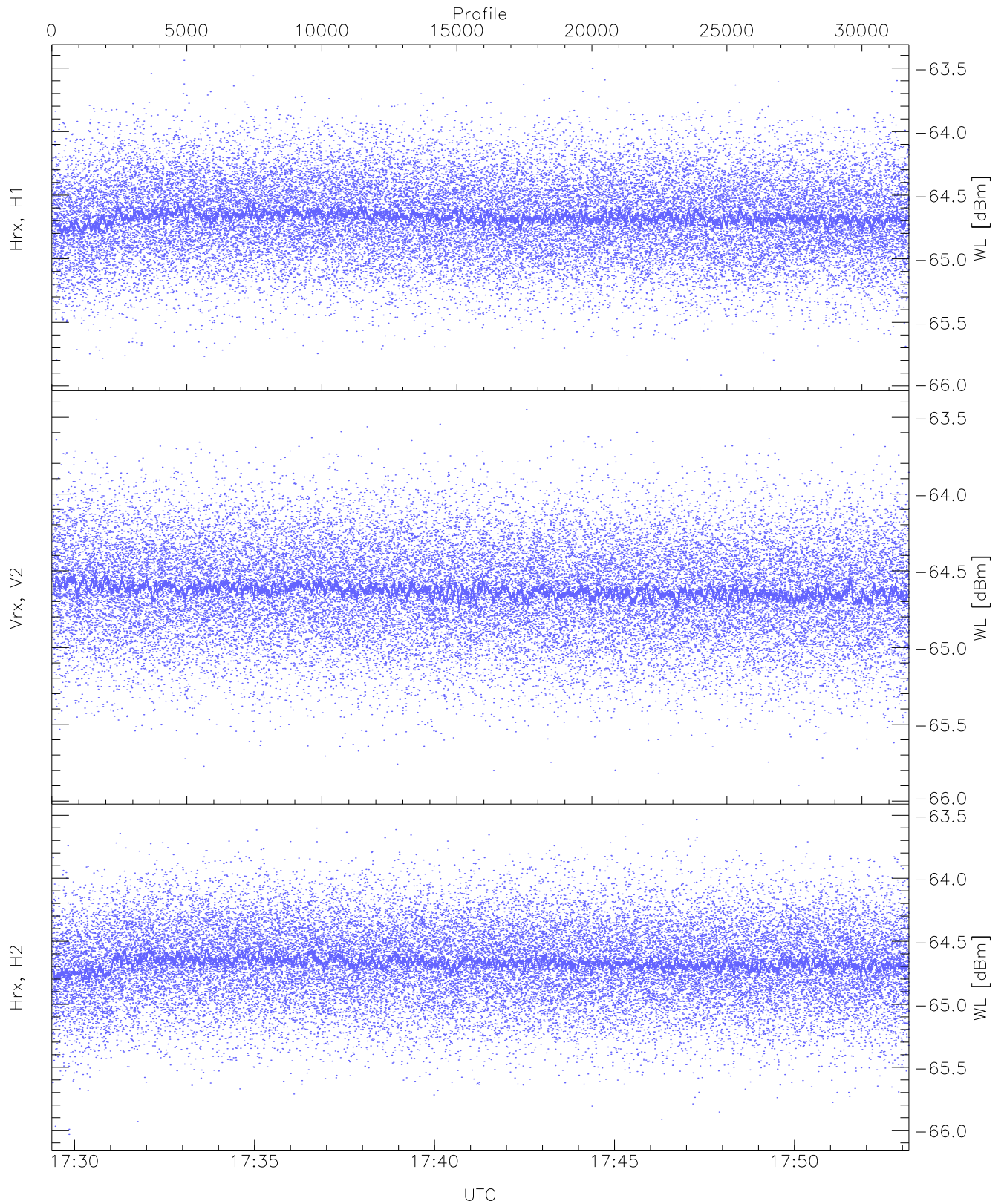
WCR3 CPP Receivers Gain and Noise Figure

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



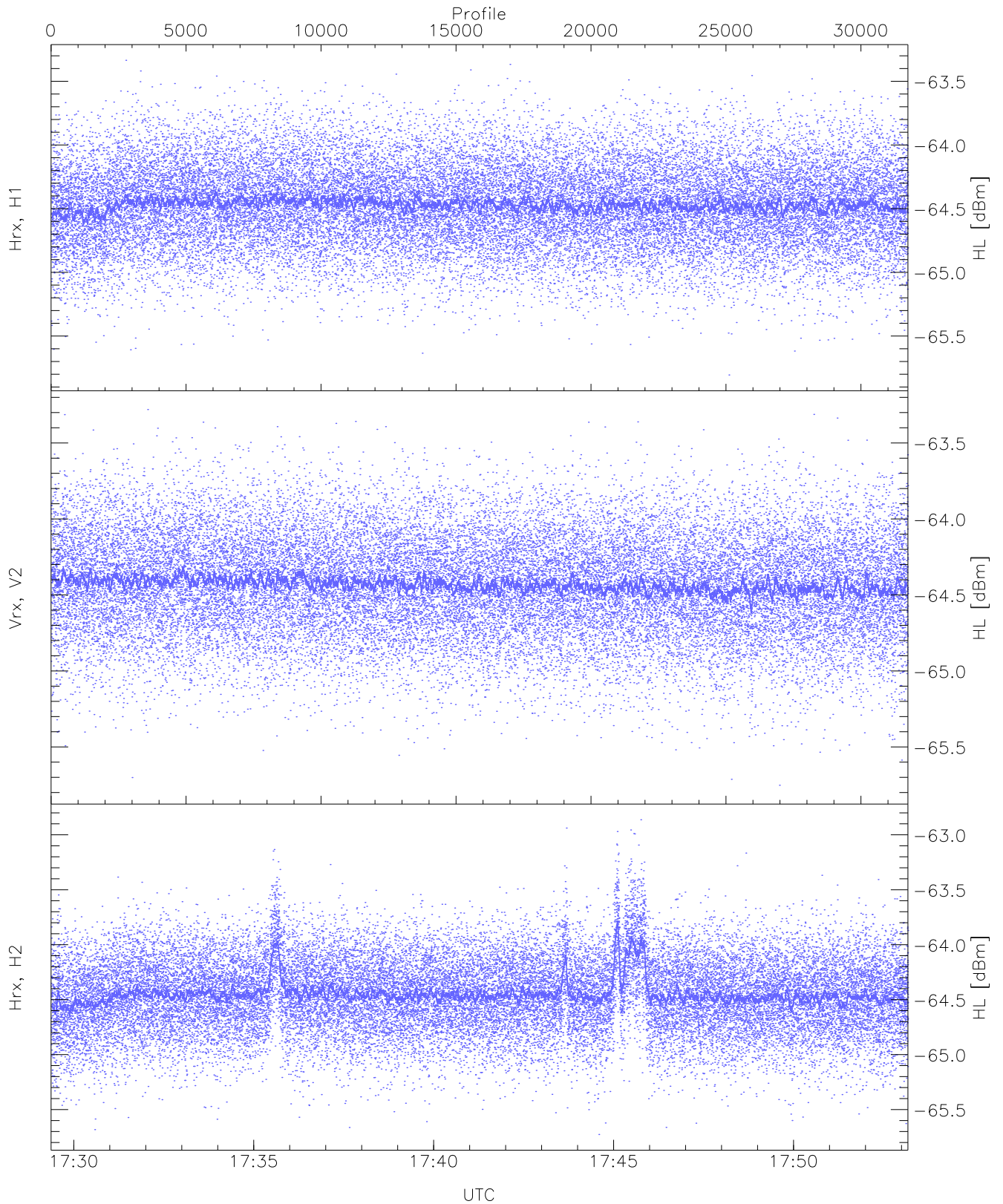
WCR3 CPP RM pulses(Tx is OFF) received power: Mean, StDev(all gates)

| | Min | Max | Mean | Median | StDev |
|---------------------|--------|--------|--------|--------|--------|
| RMPHrxH1 (mean_dBm) | -65.34 | -65.00 | -65.14 | -65.14 | -85.56 |
| RMPHrxH1 (std_dBm) | -75.90 | -74.41 | -75.15 | -75.16 | -88.89 |
| RMPVrxV2 (mean_dBm) | -64.84 | -64.53 | -64.68 | -64.68 | -85.06 |
| RMPVrxV2 (std_dBm) | -75.57 | -74.00 | -74.70 | -74.70 | -88.43 |
| RMPHrxH2 (mean_dBm) | -64.87 | -64.54 | -64.69 | -64.69 | -85.00 |
| RMPHrxH2 (std_dBm) | -75.48 | -74.00 | -74.71 | -74.71 | -88.46 |



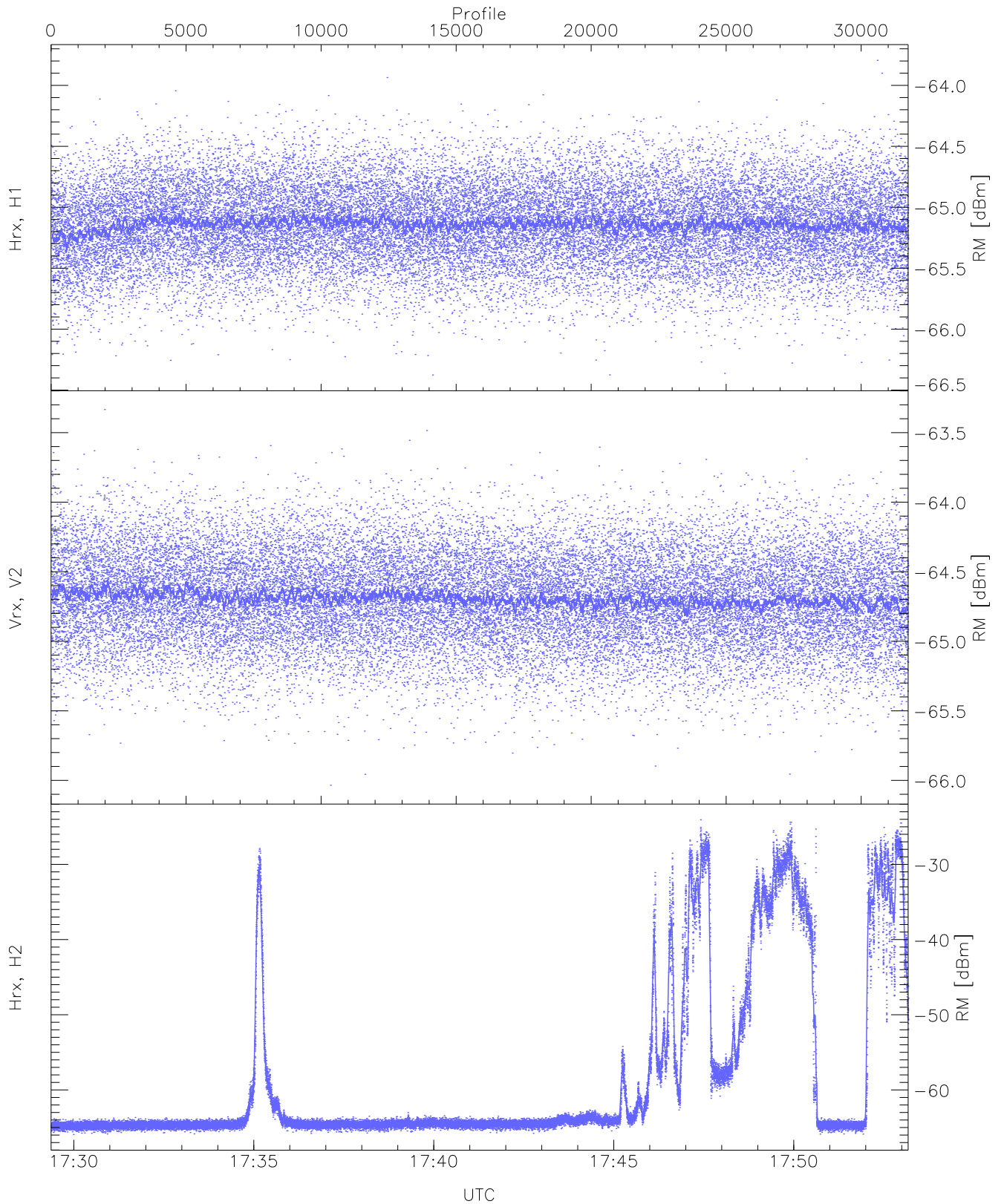
WCR3 CPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|--------------------|--------|--------|--------|--------|--------|
| Hrx, H1 (WL [dBm]) | -65.91 | -63.44 | -64.67 | -64.67 | -76.15 |
| Vrx, V2 (WL [dBm]) | -65.90 | -63.45 | -64.62 | -64.63 | -76.16 |
| Hrx, H2 (WL [dBm]) | -66.03 | -63.54 | -64.67 | -64.67 | -76.15 |



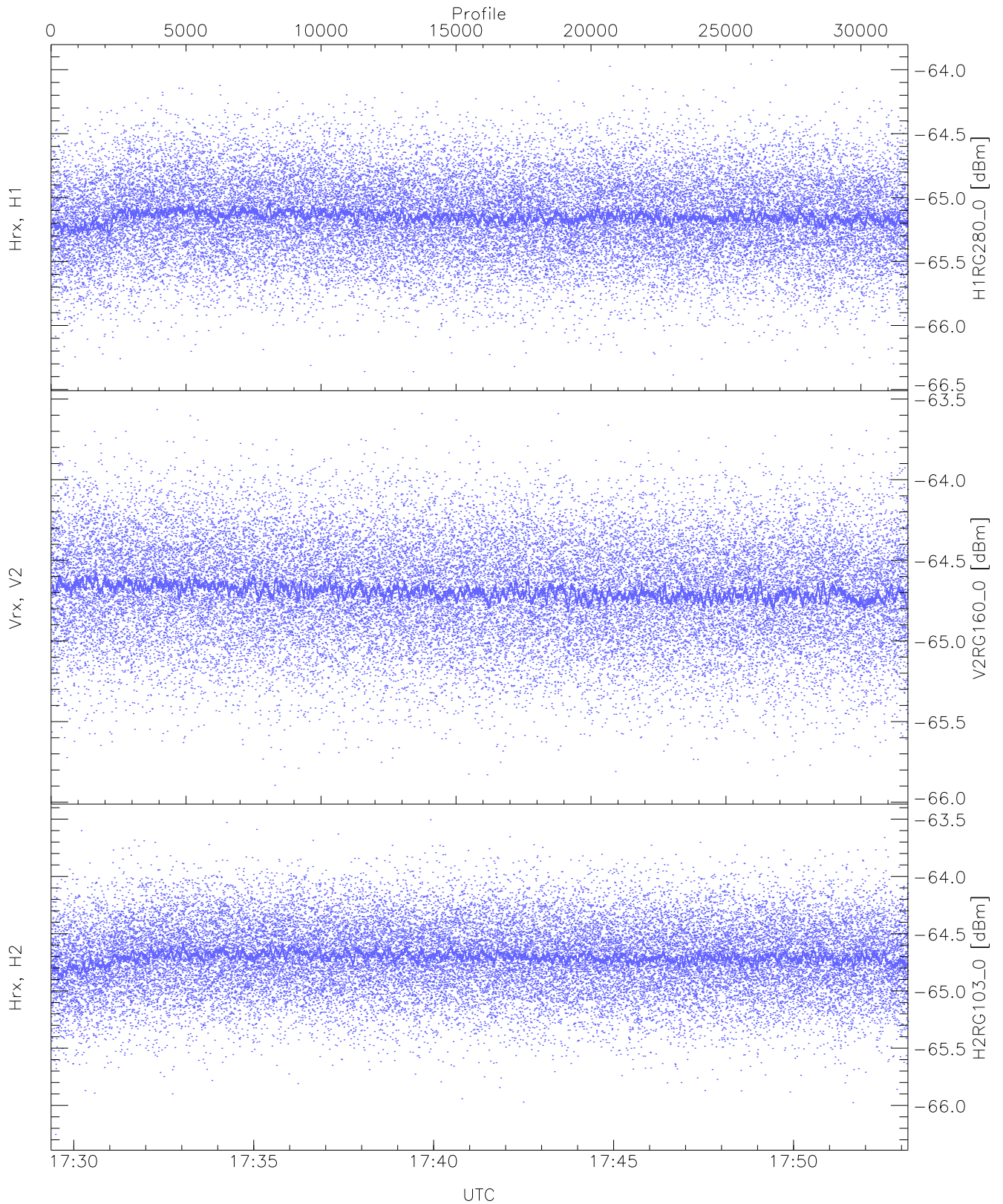
WCR3 CPP Receivers Noise Power from the Hot Loads Measurements

| | Min | Max | Mean | Median | StDev |
|--------------------|--------|--------|--------|--------|--------|
| Hrx, H1 (HL [dBm]) | -65.81 | -63.34 | -64.46 | -64.47 | -75.96 |
| Vrx, V2 (HL [dBm]) | -65.75 | -63.28 | -64.43 | -64.43 | -75.88 |
| Hrx, H2 (HL [dBm]) | -65.73 | -62.86 | -64.44 | -64.45 | -75.67 |



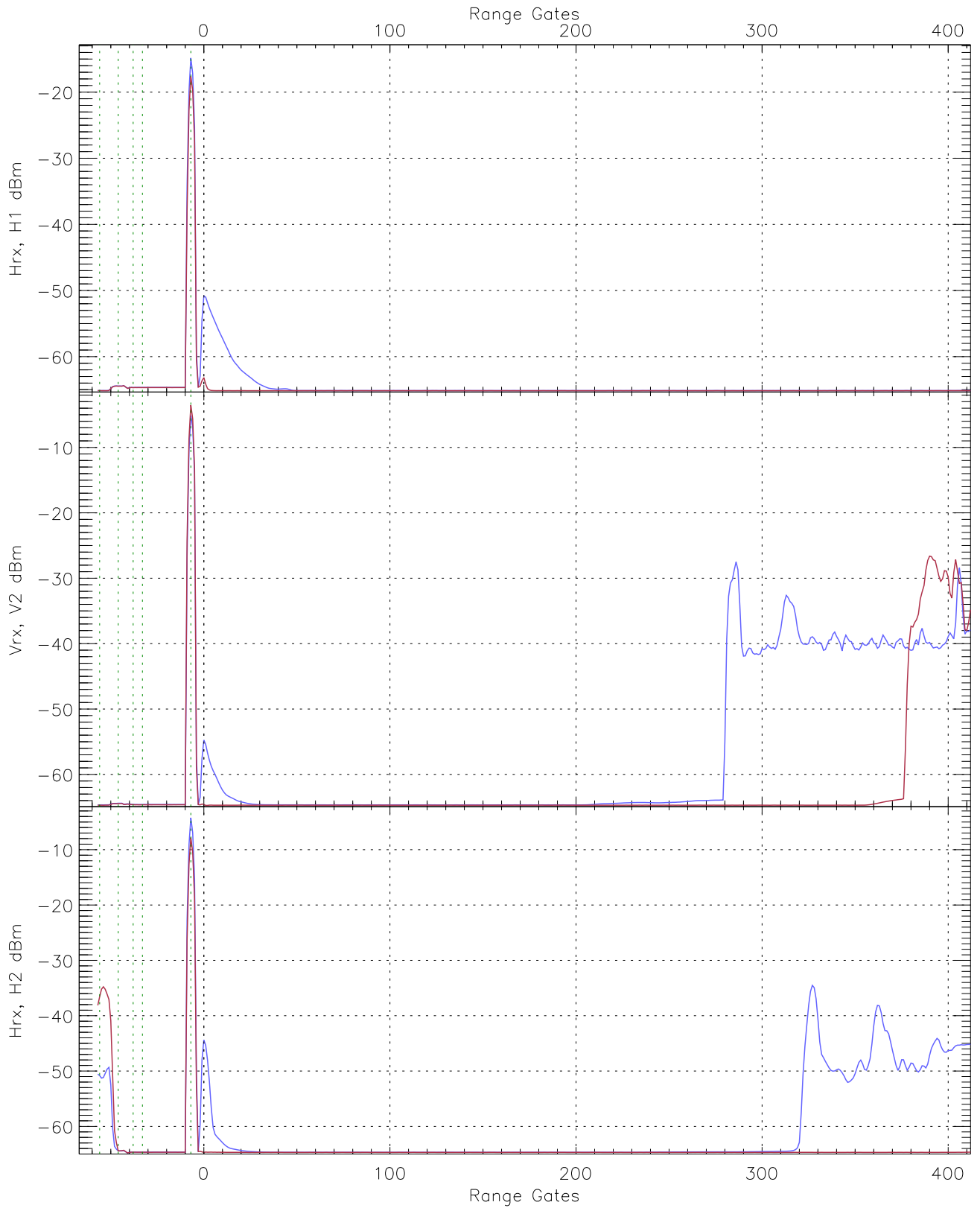
WCR3 CPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|--------------------|--------|--------|--------|--------|--------|
| Hrx, H1 (RM [dBm]) | -66.38 | -63.79 | -65.13 | -65.14 | -76.66 |
| Vrx, V2 (RM [dBm]) | -66.04 | -63.33 | -64.69 | -64.69 | -76.17 |
| Hrx, H2 (RM [dBm]) | -65.93 | -24.07 | -39.43 | -64.33 | -34.56 |

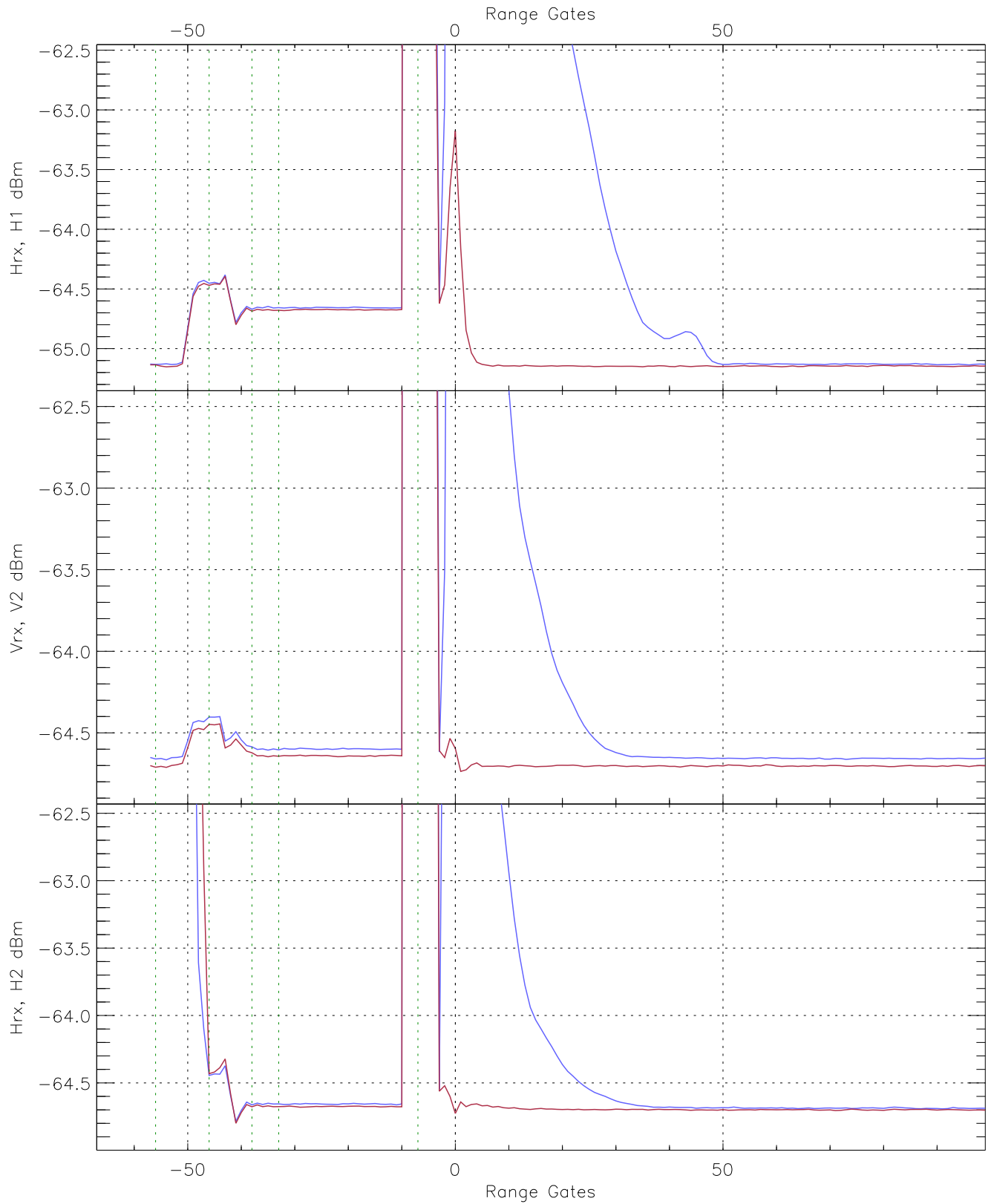


WCR3 CPP "Best" estimate Receivers Noise Power

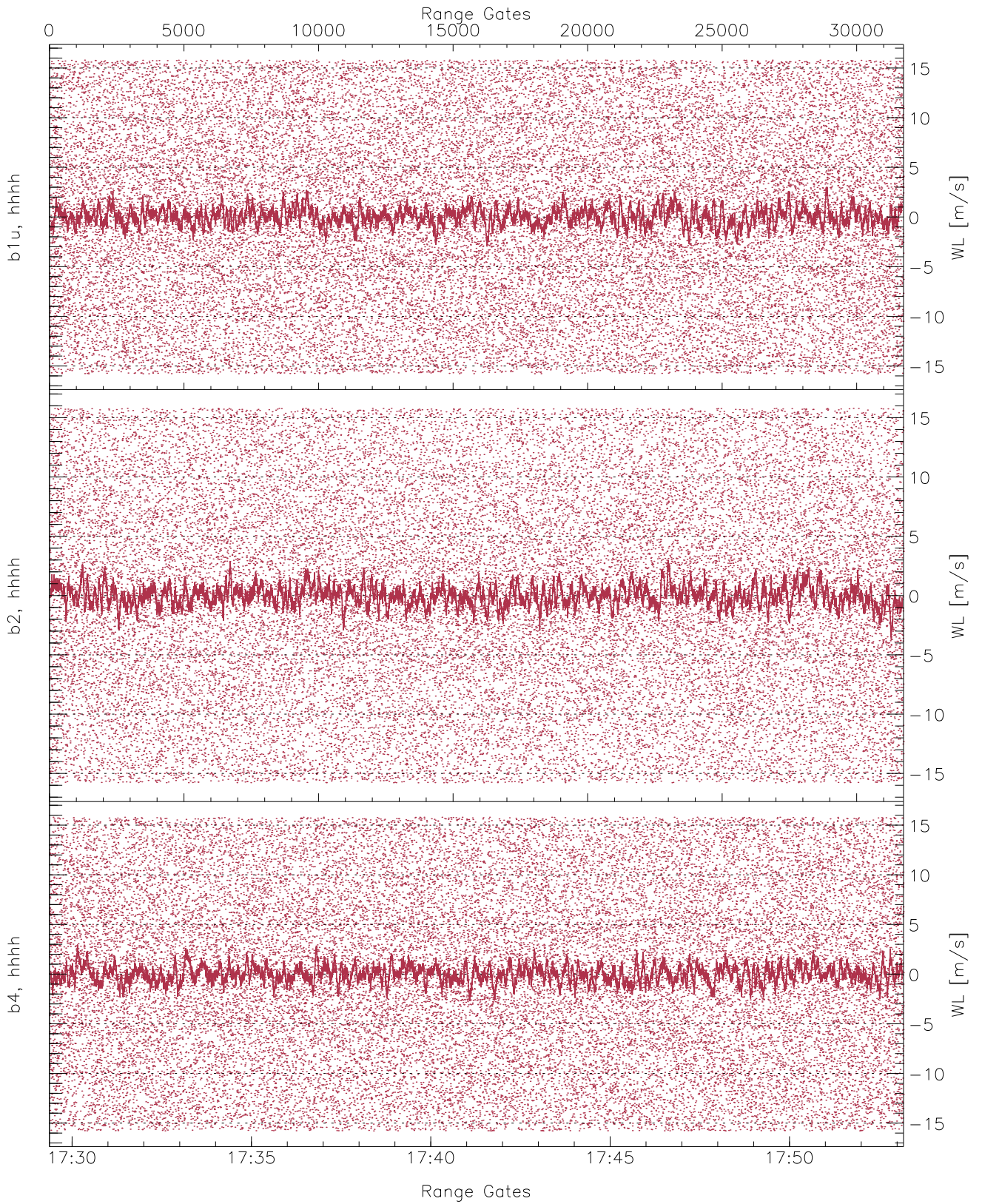
| | Min | Max | Mean | Median | StDev |
|-----------------|--------|--------|--------|--------|--------|
| H1RG280_0 [dBm] | -66.39 | -63.93 | -65.14 | -65.15 | -76.62 |
| V2RG160_0 [dBm] | -65.89 | -63.56 | -64.69 | -64.69 | -76.19 |
| H2RG103_0 [dBm] | -66.25 | -63.51 | -64.70 | -64.71 | -76.17 |



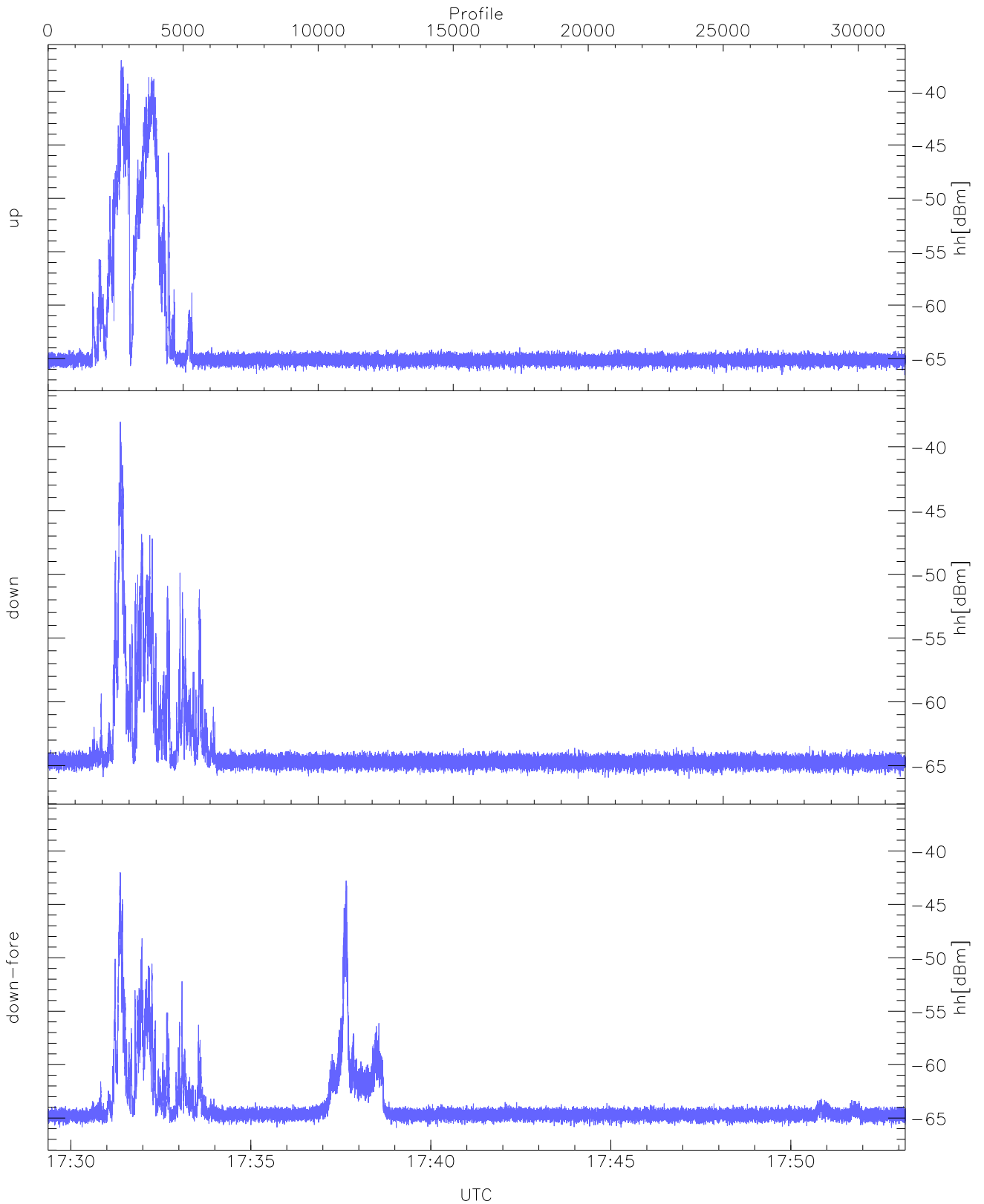
WCR3 CPP Averaged Received power for all recorded gates
blue: 172922-174116, 15871 profiles averaged
red: 174116-175311, 15871 profiles averaged



WCR3 CPP Averaged Received power for the negative gates and up to 100 gates
blue: 172922-174116, 15871 profiles averaged
red: 174116-175311, 15871 profiles averaged

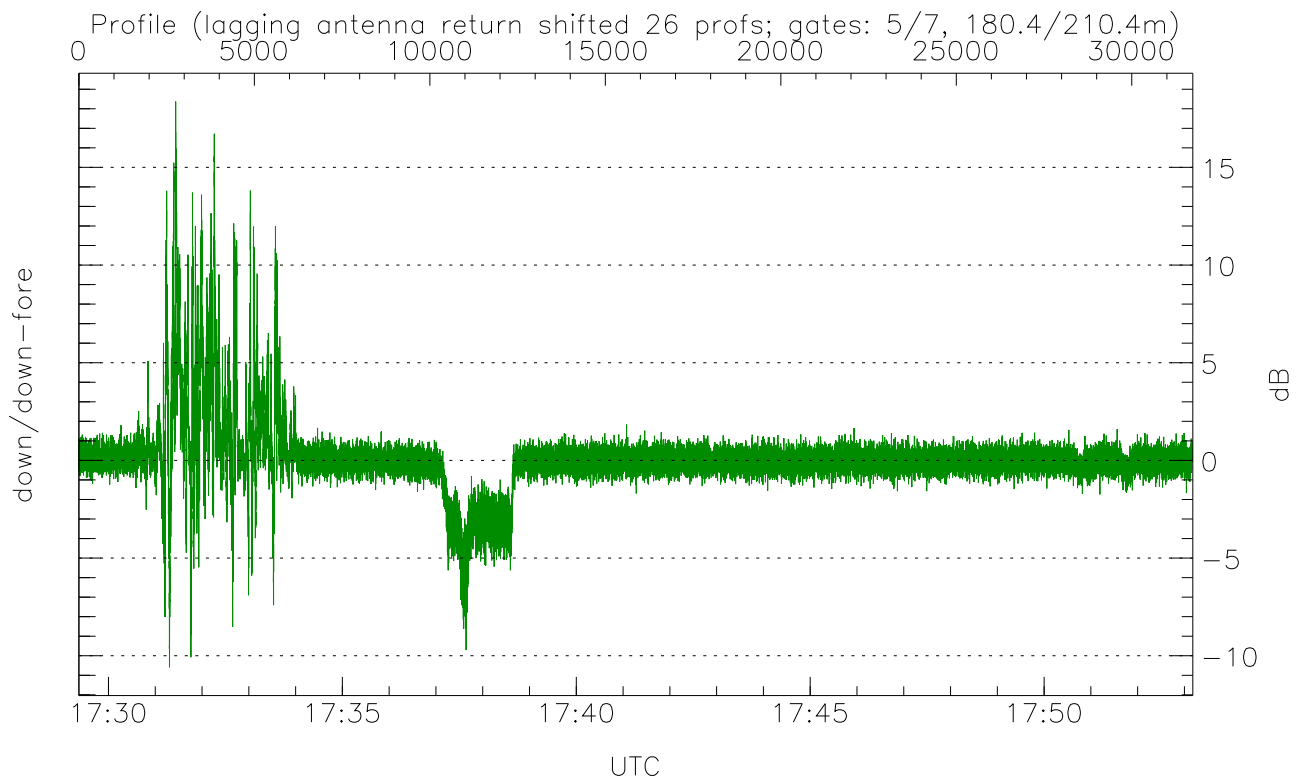
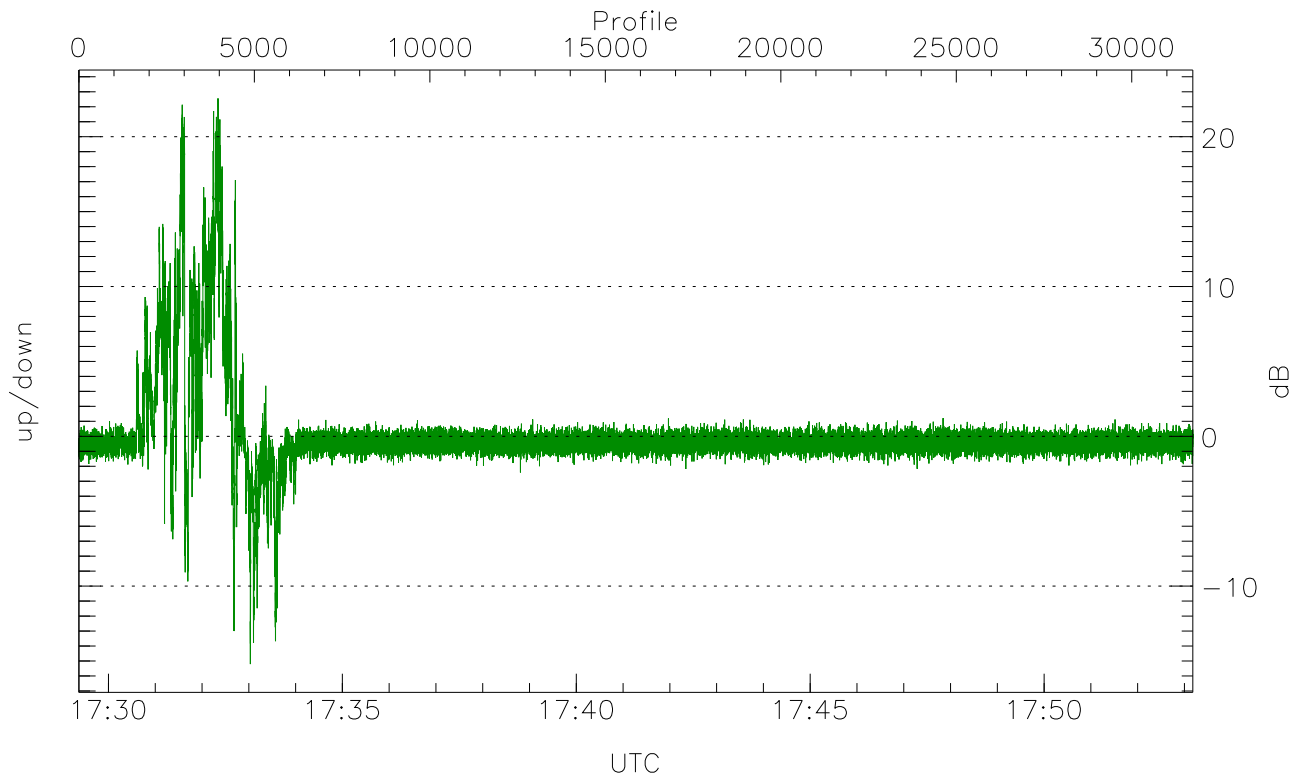


WCR3 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements



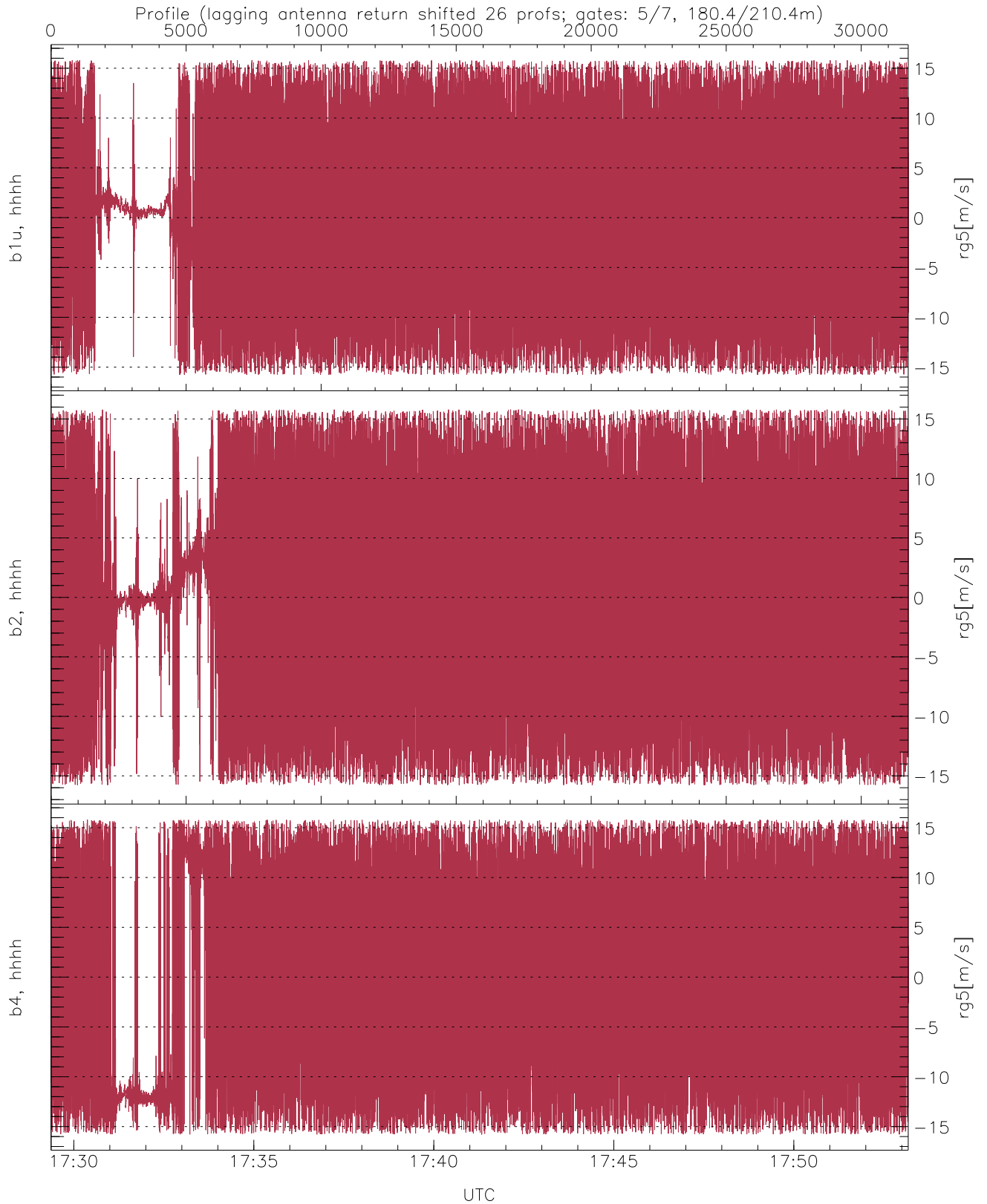
WCR3 CPP Received Power Products for Range gate 5 (180.4 m)

| | Min | Max | Mean |
|--------------------|--------|--------|--------|
| up(hh[dBm]) | -66.54 | -37.08 | -56.75 |
| down(hh[dBm]) | -66.02 | -38.05 | -61.31 |
| down-fore(hh[dBm]) | -65.92 | -42.01 | -61.89 |



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

| | Min | Max | Mean |
|---------------------|--------|-------|------|
| up/down (dB) | -15.20 | 22.56 | 0.07 |
| down/down-fore (dB) | -10.59 | 18.37 | 0.06 |



WCR3 CPP Doppler Velocity Products at 180.4 m range

| | Min | Max | Mean | StDev |
|---------------------|--------|-------|-------|-------|
| b1u, hhhh(rg5[m/s]) | -15.78 | 15.79 | 0.10 | 8.02 |
| b2, hhhh(rg5[m/s]) | -15.79 | 15.79 | 0.15 | 8.07 |
| b4, hhhh(rg5[m/s]) | -15.79 | 15.79 | -0.44 | 9.06 |