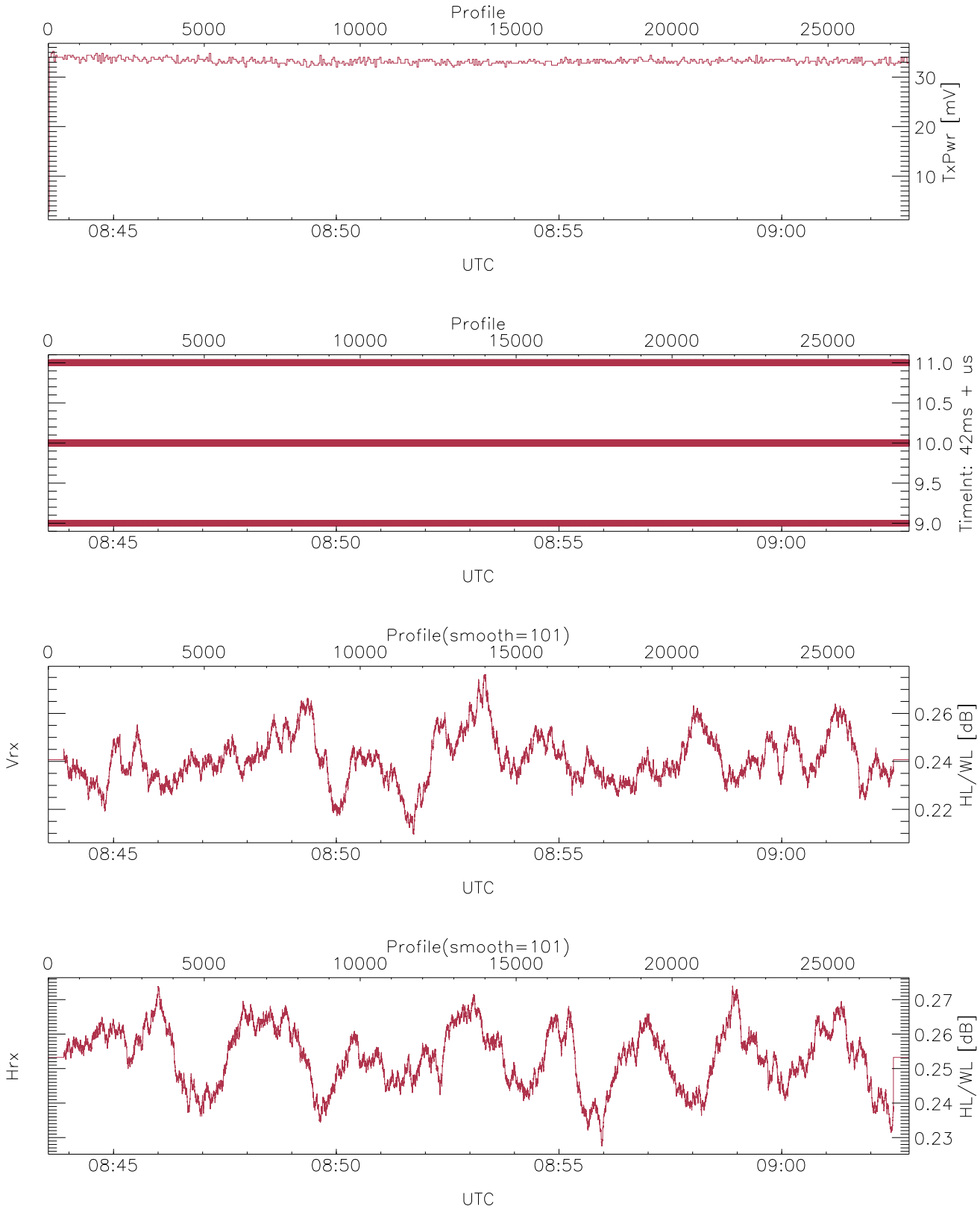
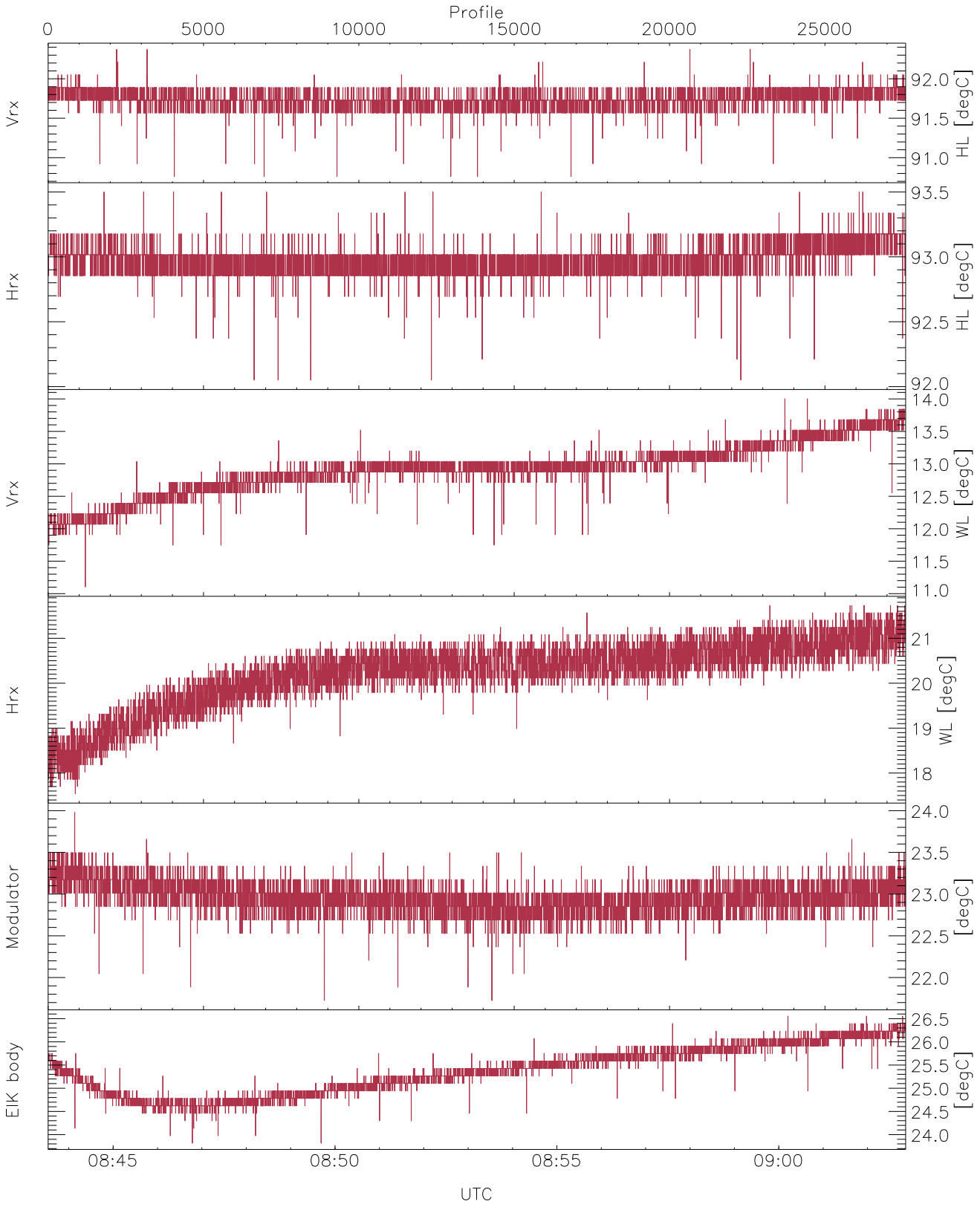


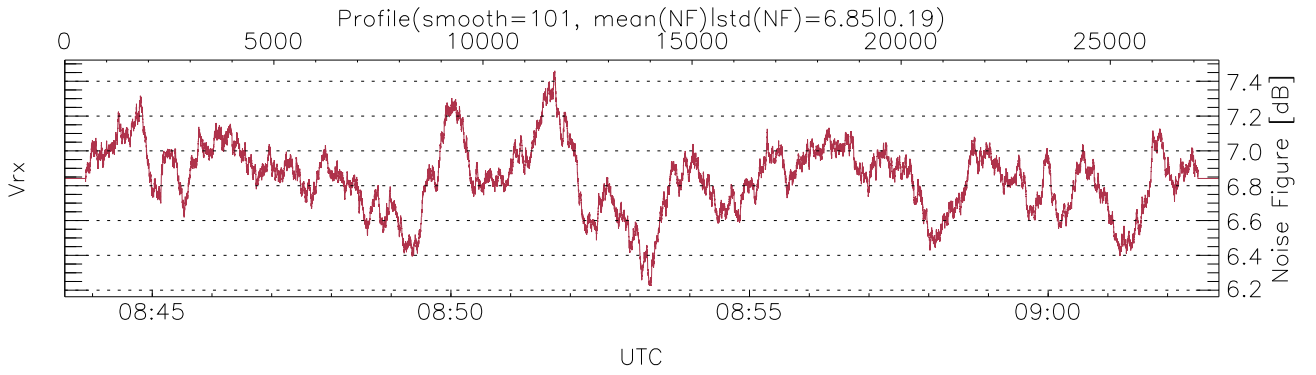

WCR2 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

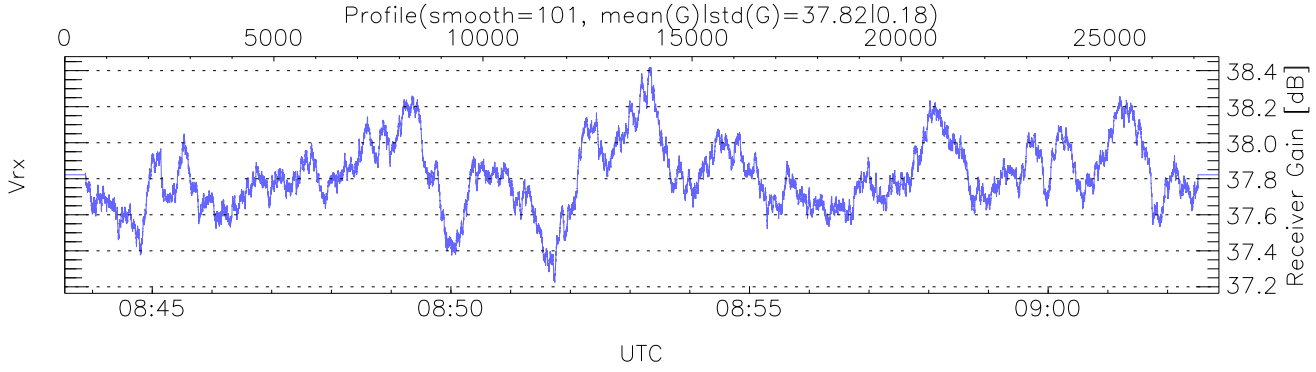
UTC: 08:43:32-09:11:41, Dur: 1689.33s
TimeCor: 0.00s, TimeFlg: 1, TFPstatus constant
TimeInt/PPS(min,max,mn,std): 42.0,42.0,42.0,0.0 ms / 24,24,24
NumRec(r/t): 27600/40213, 0-27599/08:43:32-09:02:52
AcqTime: 42.0ms, Rate: 377KB/s, Averages: 140
Pulse: 250ns, IFF: 4.0MHz, Tx: H1 H1 H2 H2 V2 V2
PRF: 20.0 20.0 20.0 20.0 20.0 KHz, IGS: 50us
Range(min,max,rgs): 105,6187,15.0 m, Gates: 406, Aspect: 4.0
Mirror(-9|0|1|2,3,9x)=no mirror|sideluplerror): 1

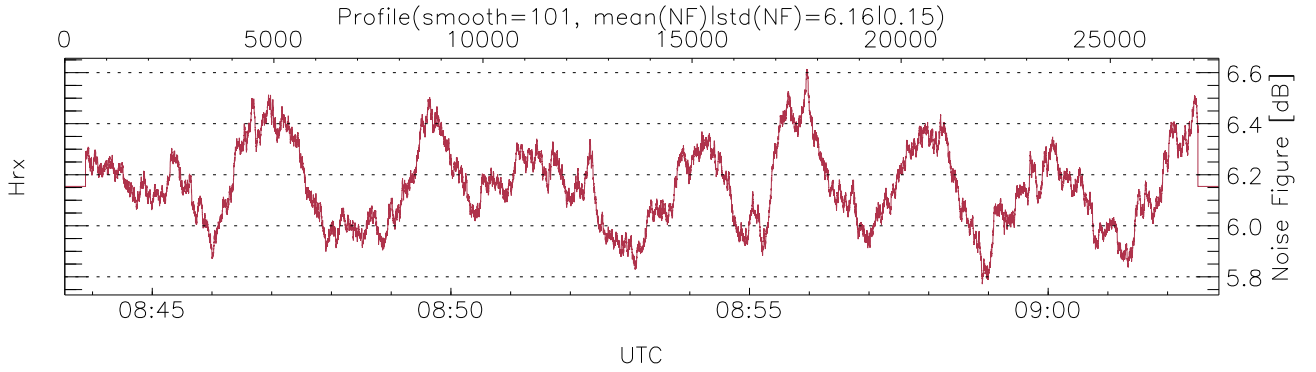


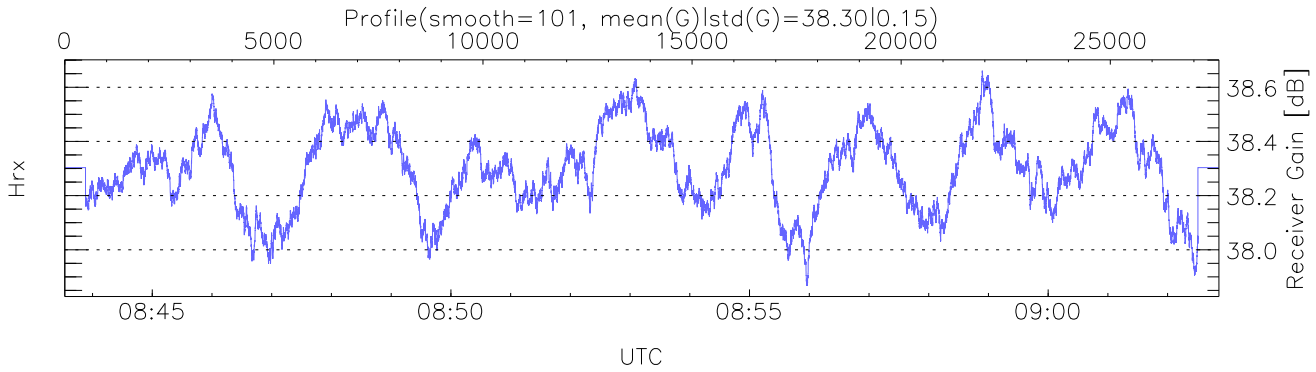

WCR2 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator Body, EIK Body

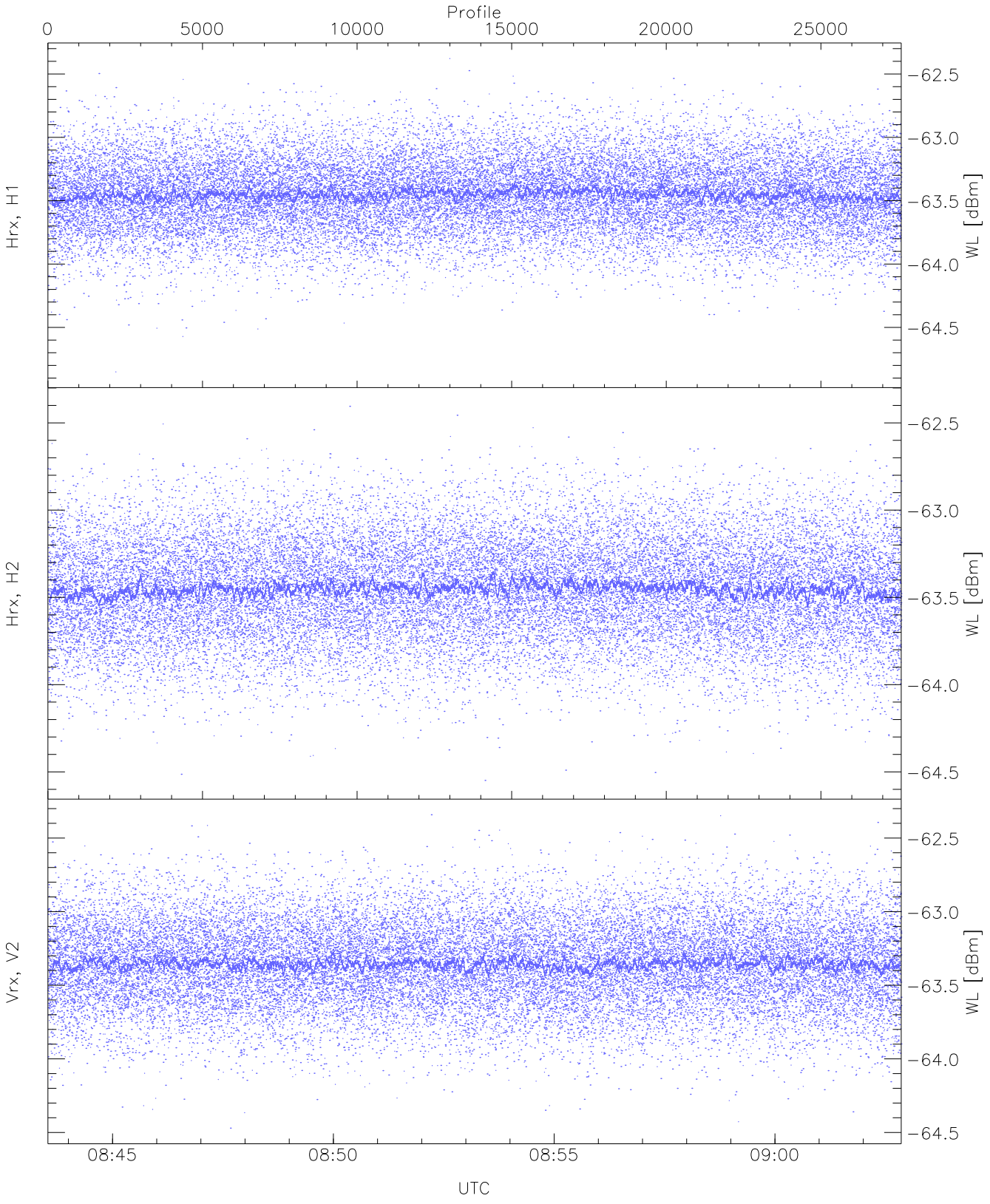
mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 90,92,11,17,21,23
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,93,14,21,23,26
LOalarm(20,80,240,2.8,14.8 MHz): None
EIK/Modulator Faults: None


Profile(smooth=101, mean(NF)|std(NF)=6.85|0.19)
0
5000
10000
15000
20000
25000
Vrx
7.4
7.2
7.0
6.8
6.6
6.4
6.2
Noise Figure [dB]
08:45
08:50
08:55
09:00
UTC


Profile(smooth=101, mean(G)|std(G)=37.82|0.18)
0
5000
10000
15000
20000
25000
Vrx
38.4
38.2
38.0
37.8
37.6
37.4
37.2
Receiver Gain [dB]
08:45
08:50
08:55
09:00
UTC

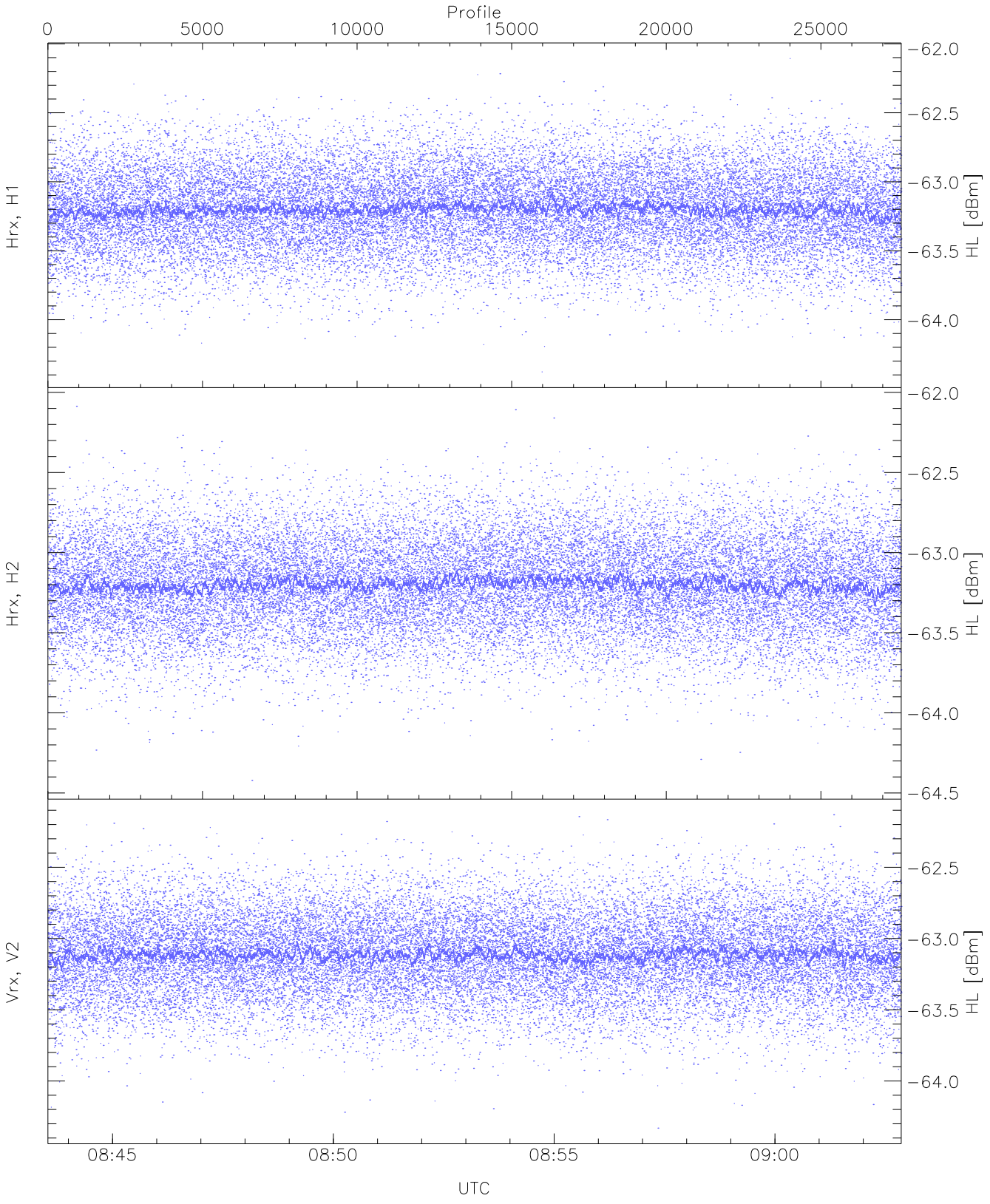

Profile(smooth=101, mean(NF)|std(NF)=6.16|0.15)
0
5000
10000
15000
20000
25000
Hrx
6.6
6.4
6.2
6.0
5.8
Noise Figure [dB]
08:45
08:50
08:55
09:00
UTC


Profile(smooth=101, mean(G)|std(G)=38.30|0.15)
0
5000
10000
15000
20000
25000
Hrx
38.6
38.4
38.2
38.0
Receiver Gain [dB]
08:45
08:50
08:55
09:00
UTC



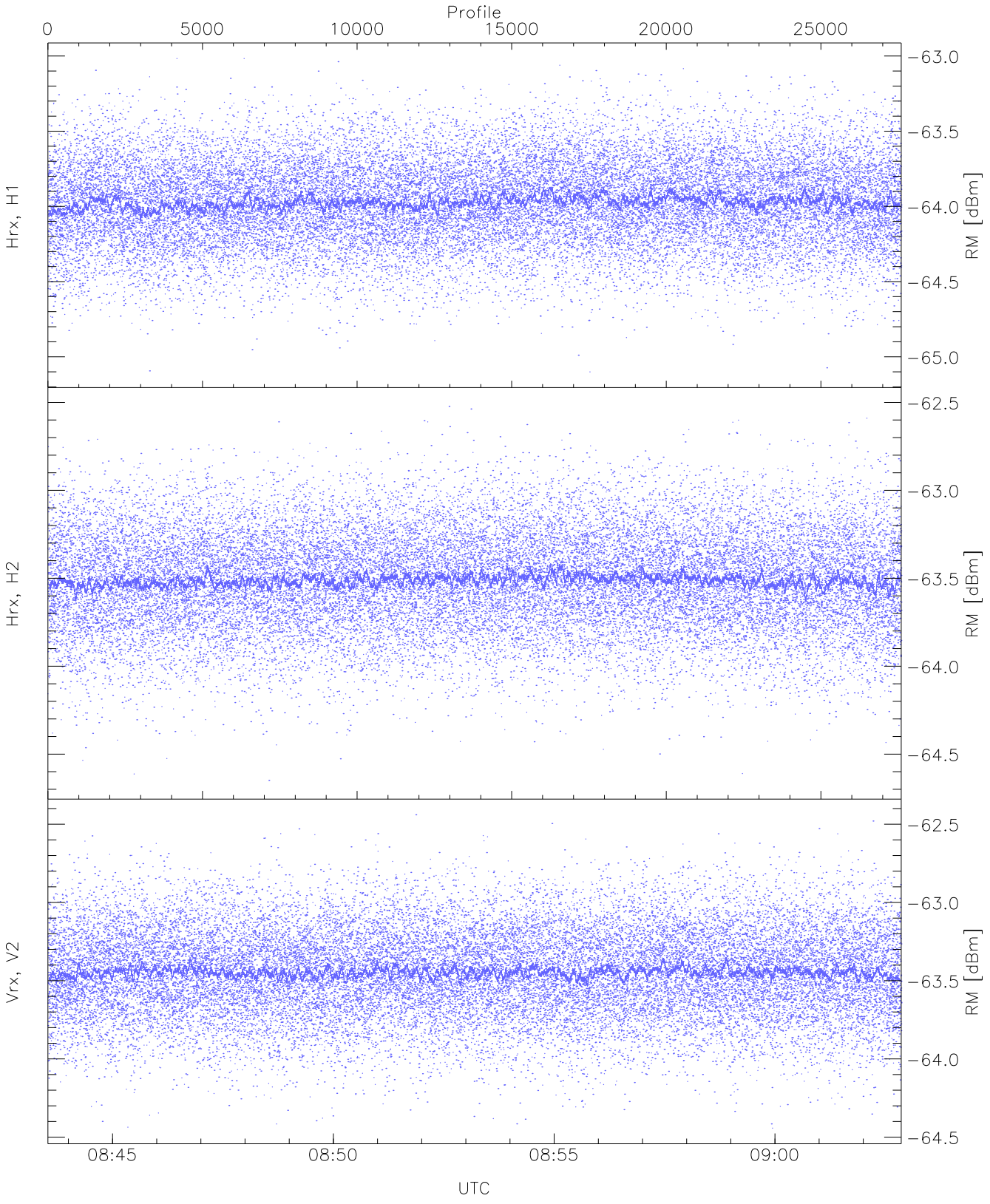

WCR2 CPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(WL [dBm]) | -64.85 | -62.38 | -63.45 | -63.46 | -75.57 |
| Hrx, H2(WL [dBm]) | -64.55 | -62.40 | -63.45 | -63.45 | -75.61 |
| Vrx, V2(WL [dBm]) | -64.47 | -62.34 | -63.35 | -63.36 | -75.48 |



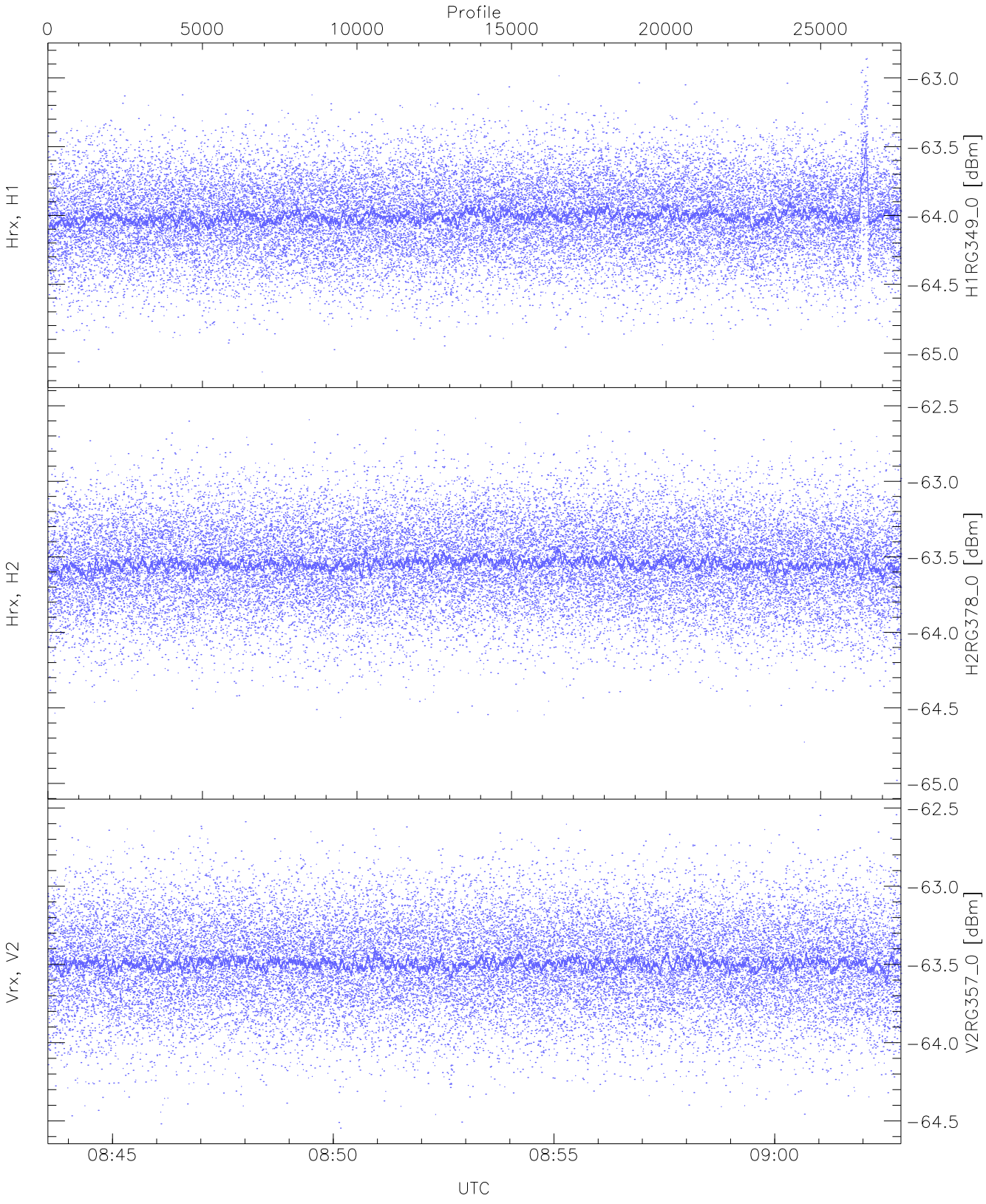

WCR2 CPP Receivers Noise Power from the Hot Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(HL [dBm]) | -64.38 | -62.11 | -63.20 | -63.20 | -75.32 |
| Hrx, H2(HL [dBm]) | -64.42 | -62.09 | -63.19 | -63.20 | -75.35 |
| Vrx, V2(HL [dBm]) | -64.33 | -62.13 | -63.11 | -63.12 | -75.26 |



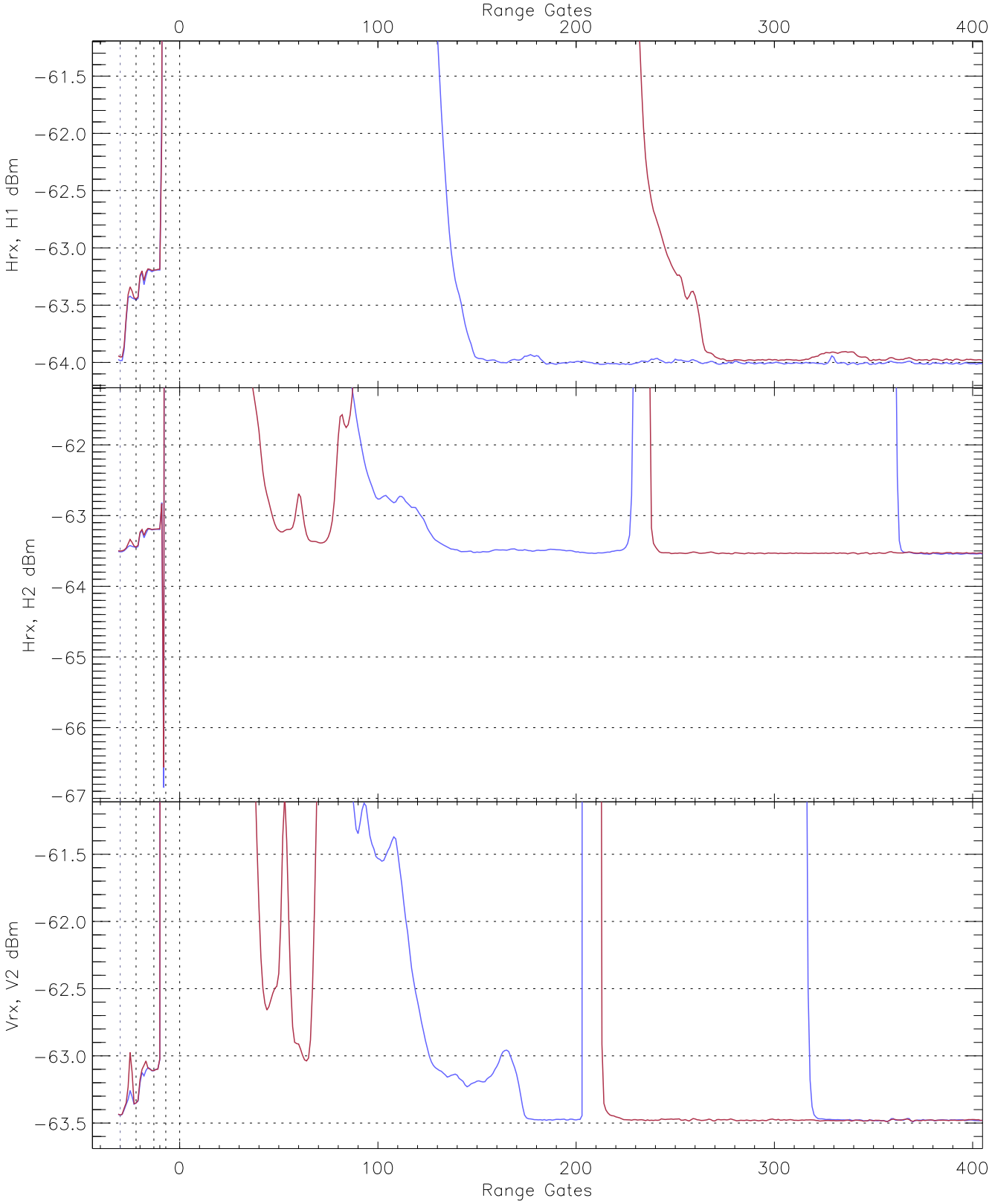

WCR2 CPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(RM [dBm]) | -65.10 | -63.02 | -63.97 | -63.97 | -76.08 |
| Hrx, H2(RM [dBm]) | -64.65 | -62.52 | -63.51 | -63.51 | -75.64 |
| Vrx, V2(RM [dBm]) | -64.44 | -62.44 | -63.44 | -63.45 | -75.58 |

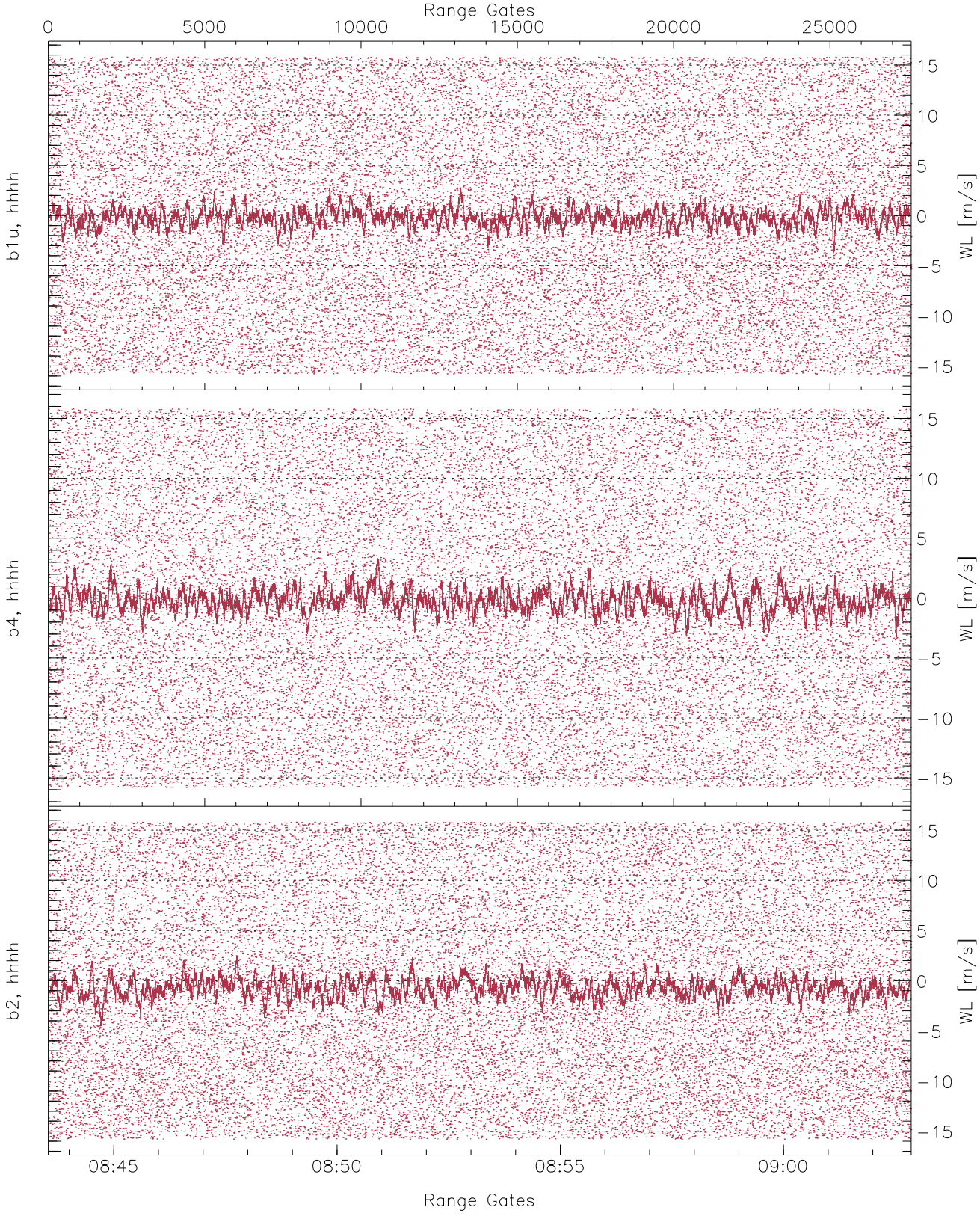



WCR2 CPP "Best" estimate Receivers Noise Power

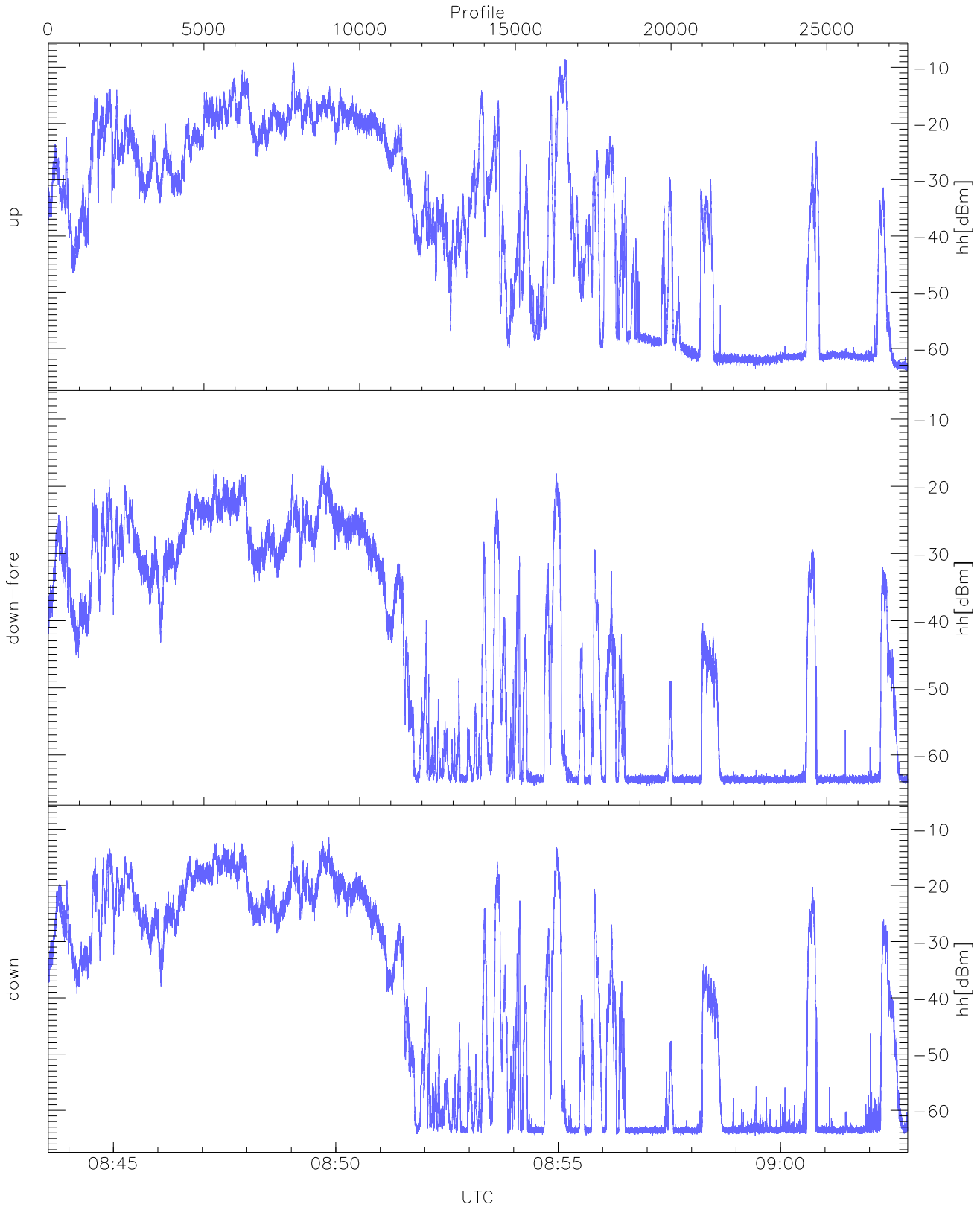
| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| H1RG349_0 [dBm] | -65.14 | -62.86 | -64.00 | -64.01 | -76.08 |
| H2RG378_0 [dBm] | -64.98 | -62.50 | -63.54 | -63.55 | -75.69 |
| V2RG357_0 [dBm] | -64.55 | -62.54 | -63.49 | -63.50 | -75.63 |




WCR2 CPP Averaged Received power for all recorded gates
blue: 084332-85311, 13801 profiles averaged
red: 85311-090252, 13800 profiles averaged

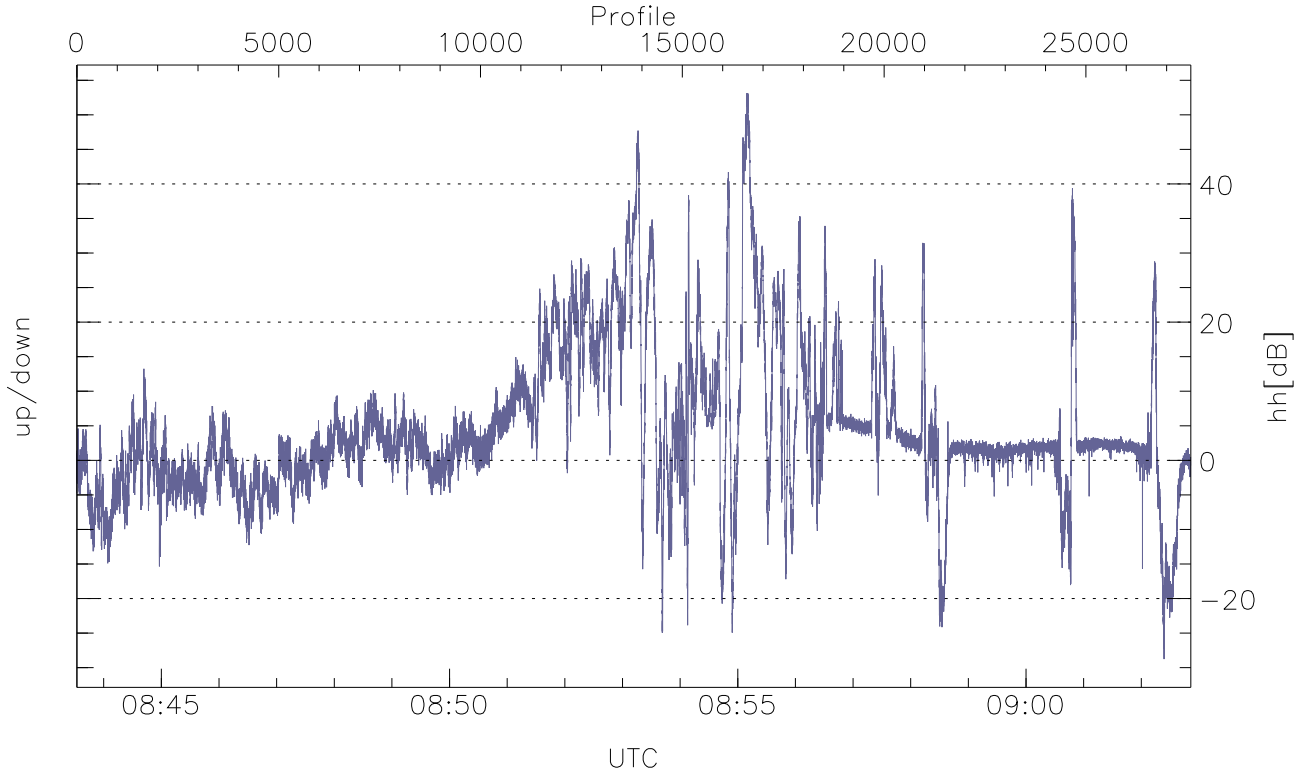


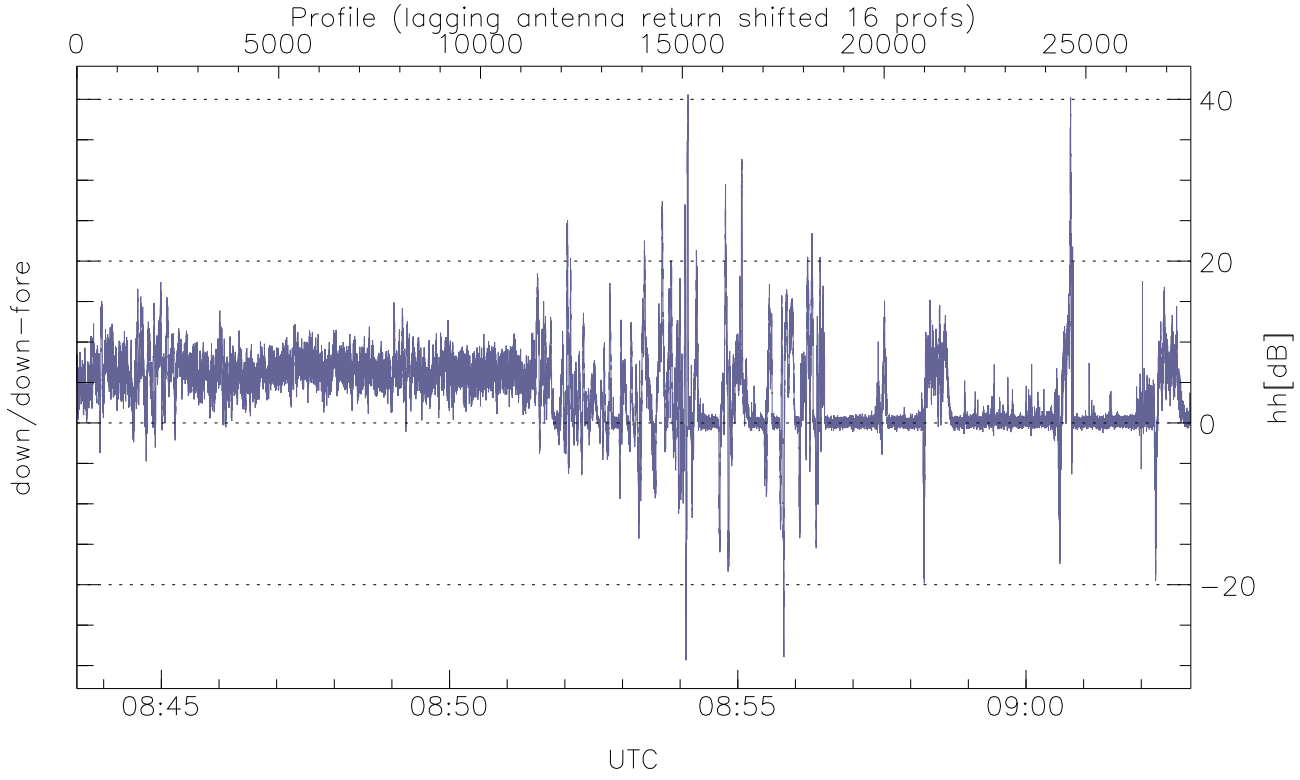

WCR2 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements




WCR2 CPP Received Power Products for Range gate 0 (105.1 m)

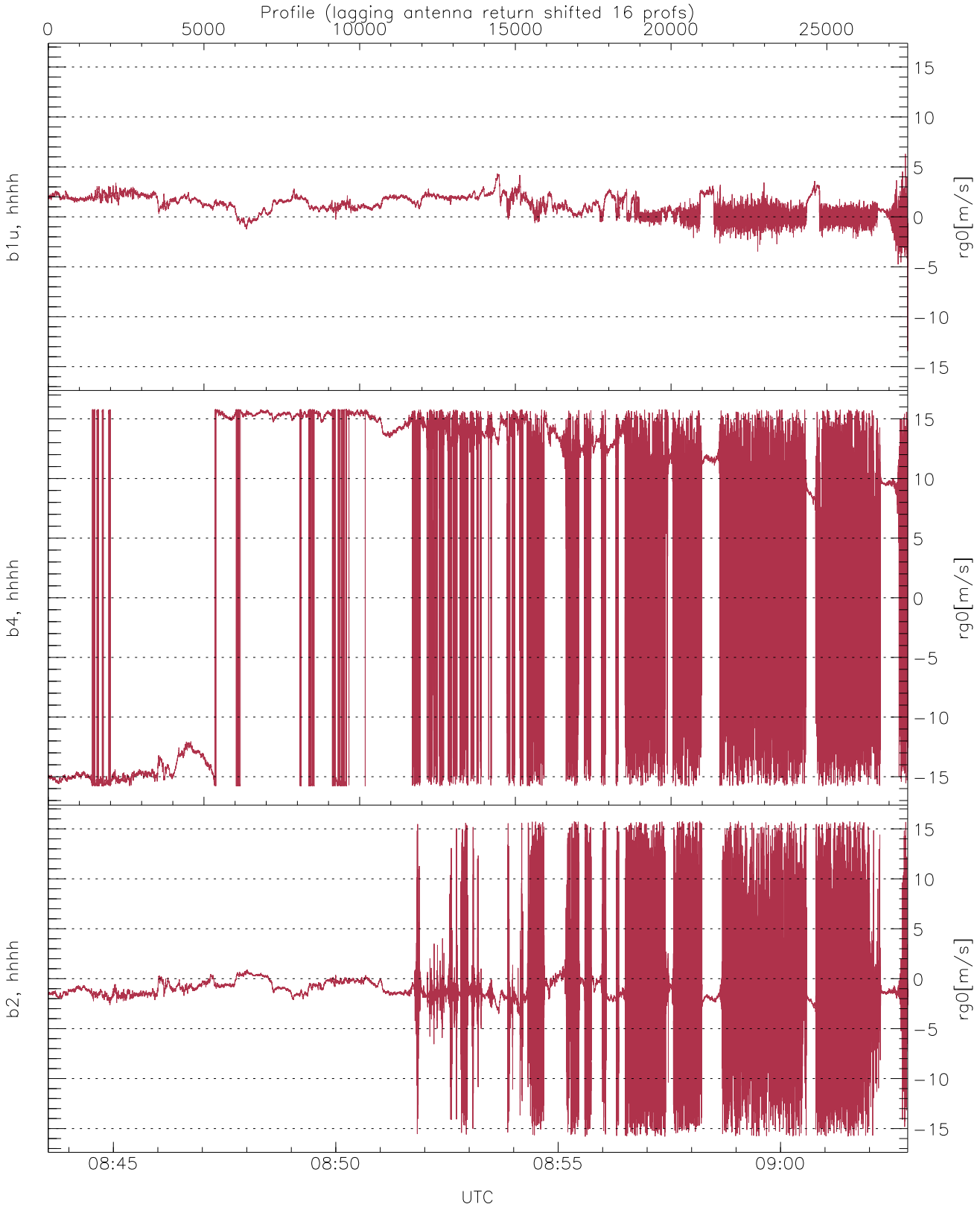
| | Min | Max | Mean |
|---|---|---|---|
| up(hh[dBm]) | -63.96 | -8.53 | -22.78 |
| down-fore(hh[dBm]) | -64.67 | -16.91 | -29.38 |
| down(hh[dBm]) | -64.53 | -11.41 | -23.87 |




WCR2 Received Power Ratio(s); Range gate(s) used: 0,1 (105,120 m)

| | Min | Max | Mean |
|---|---|---|---|
| up/down(hh[dB]) | -28.76 | 53.12 | 5.30 |
| down/down-fore(hh[dB]) | -29.34 | 40.60 | 3.95 |




WCR2 CPP Doppler Velocity Products at 105.1 m range

| | Min | Max | Mean | StDev |
|---|---|---|---|---|
| b1u, hhhh(rg0[m/s]) | -13.43 | 6.31 | 1.13 | 1.03 |
| b4, hhhh(rg0[m/s]) | -15.80 | 15.80 | 3.03 | 12.47 |
| b2, hhhh(rg0[m/s]) | -15.80 | 15.78 | -1.03 | 4.56 |