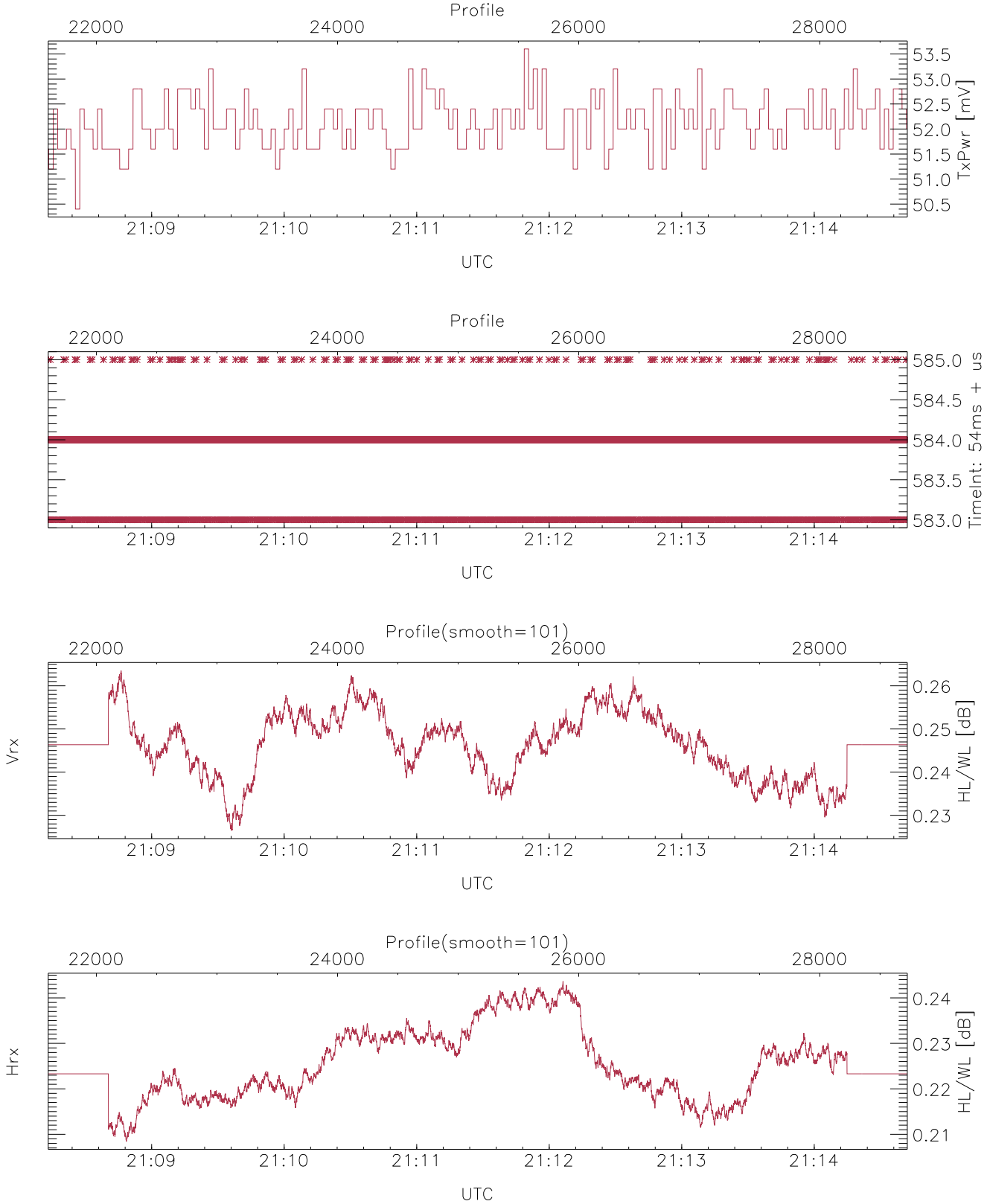
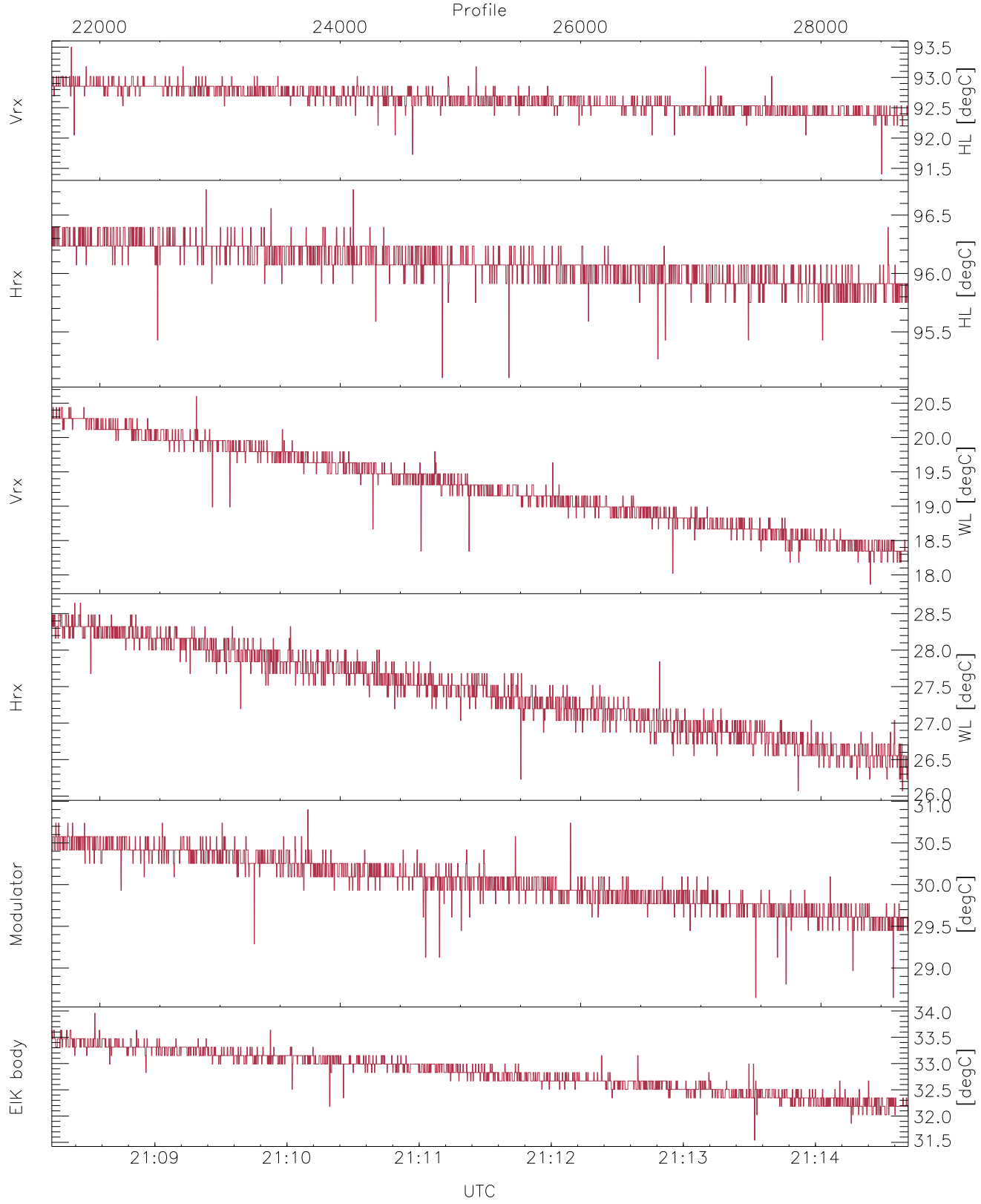


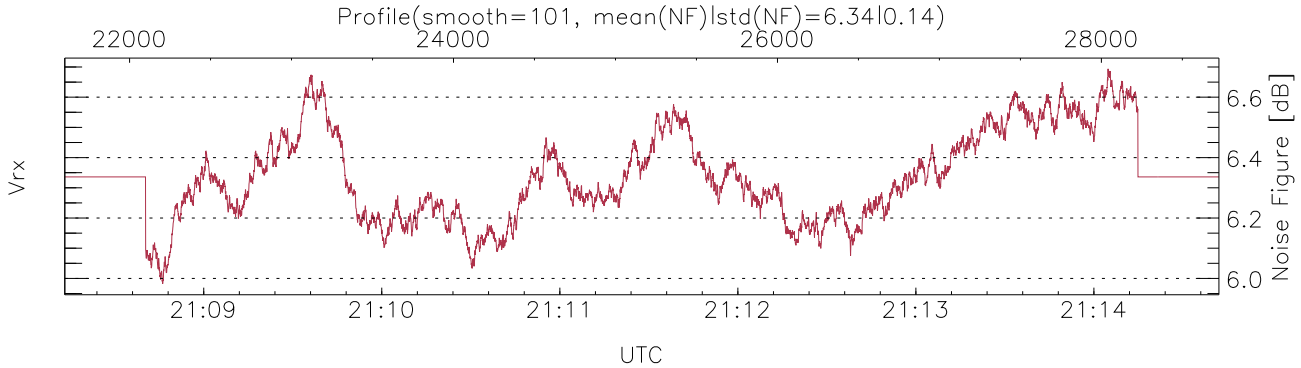
WCR2 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

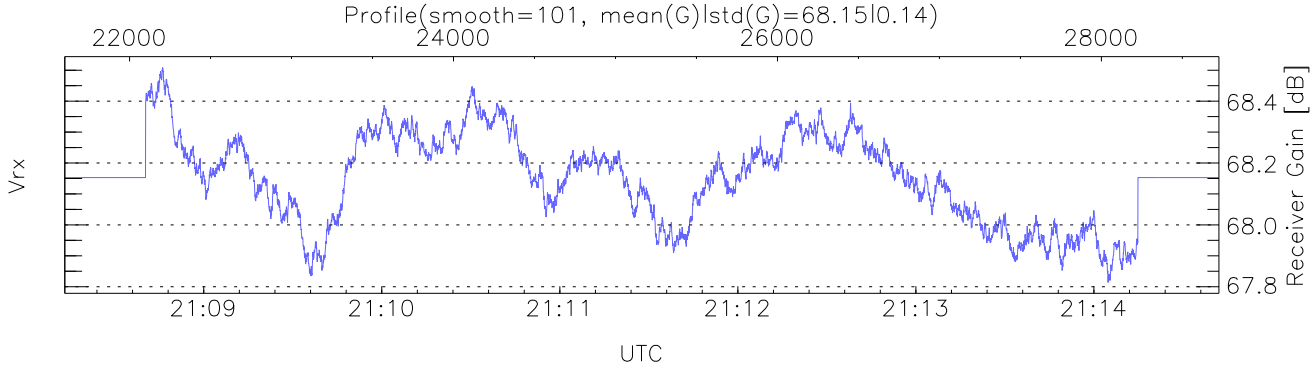
UTC: 20:48:34-21:14:42, Dur: 1567.99s
TimeCor: 0.00s, TimeFlg: 1, TFPstatus constant
TimeInt/PPS(min,max,mn,std): 54.6,54.6,54.6,0.0 ms / 18,18,18
NumRec(r/t): 7127/28727, 21600-28726/21:08:13-21:14:42
AcqTime: 54.6ms, Rate: 400KB/s, Averages: 140
Pulse: 250ns, IFF: 4.0MHz, Tx: H1 H1 H2 H2 V2 V2
PRF: 15.4 15.4 15.4 15.4 15.4 KHz, IGS: 65us
Range(min,max,rgs): 105,8740,15.0 m, Gates: 576, Aspect: 2.4

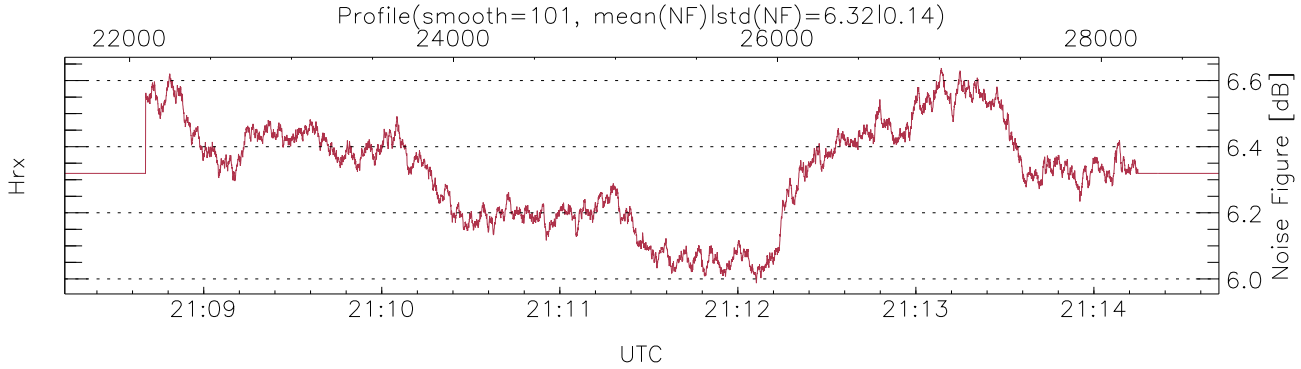


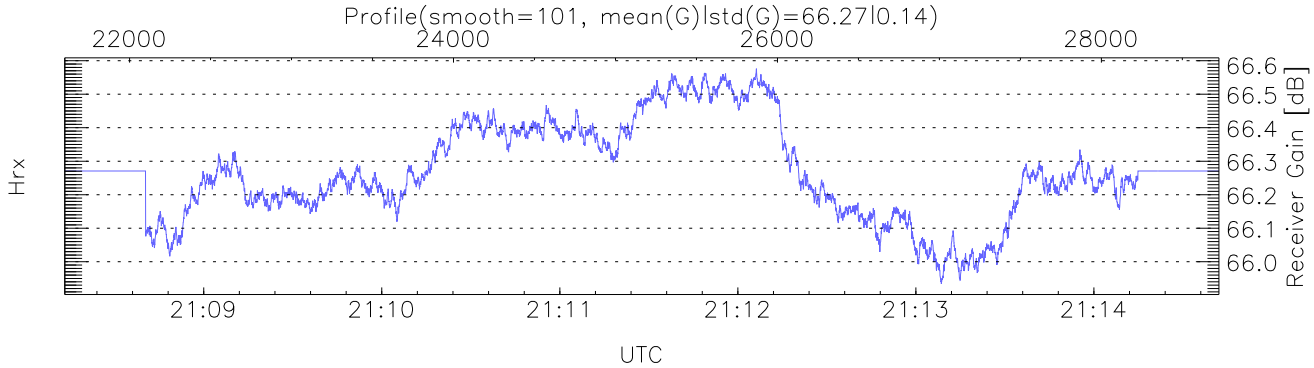
WCR2 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator Body, EIK Body

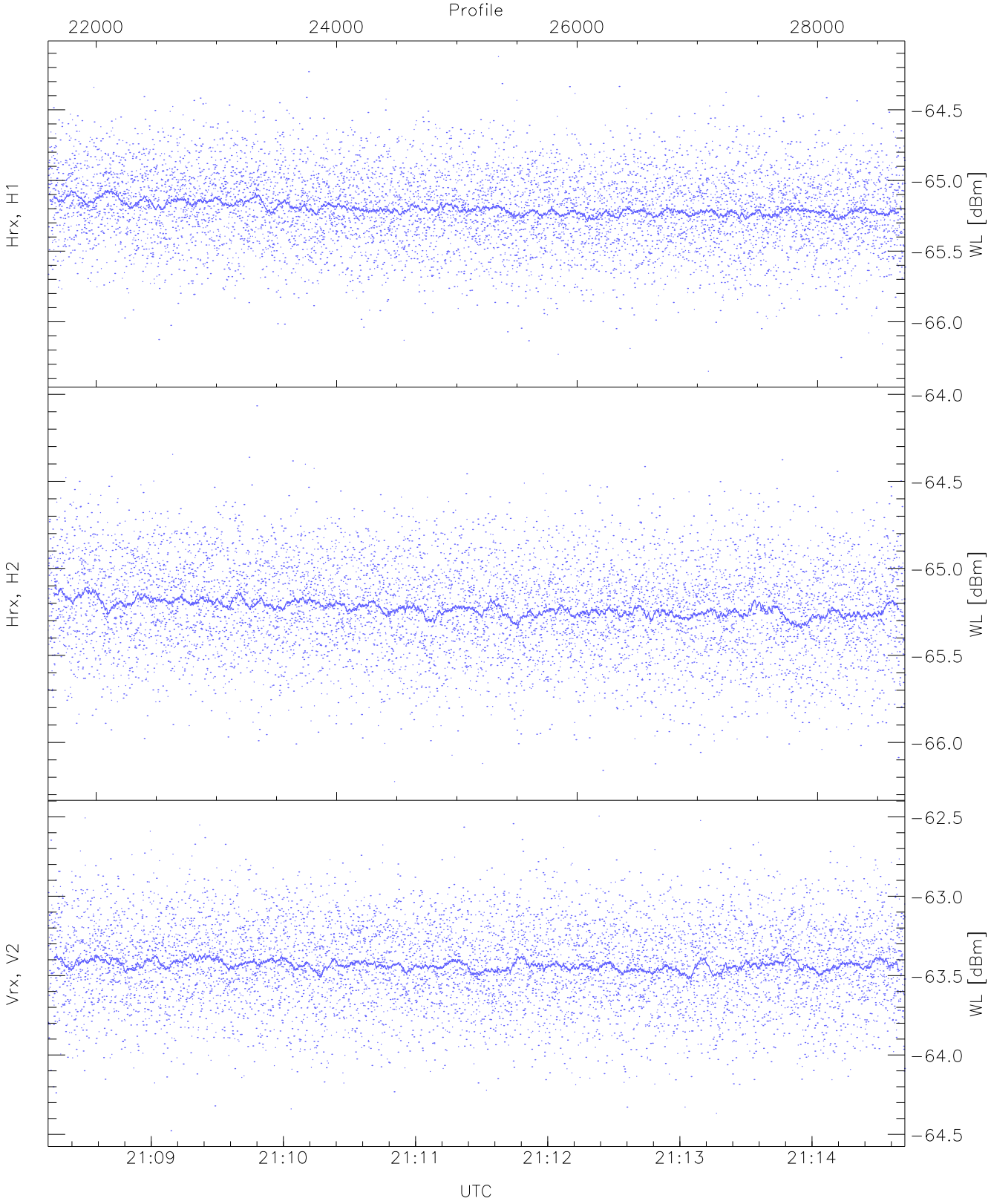
mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,95,17,26,28,31
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 93,96,20,28,30,33
LOalarm(20,80,240,2.8,14.8 MHz): 5,0,0,19,0
EIK/Modulator Faults: None


Profile(smooth=101, mean(NF)|std(NF)=6.34|0.14)
22000
24000
26000
28000
Vrx
6.6
6.4
6.2
6.0
Noise Figure [dB]
21:09
21:10
21:11
21:12
21:13
21:14
UTC


Profile(smooth=101, mean(G)|std(G)=68.15|0.14)
22000
24000
26000
28000
Vrx
68.4
68.2
68.0
67.8
Receiver Gain [dB]
21:09
21:10
21:11
21:12
21:13
21:14
UTC

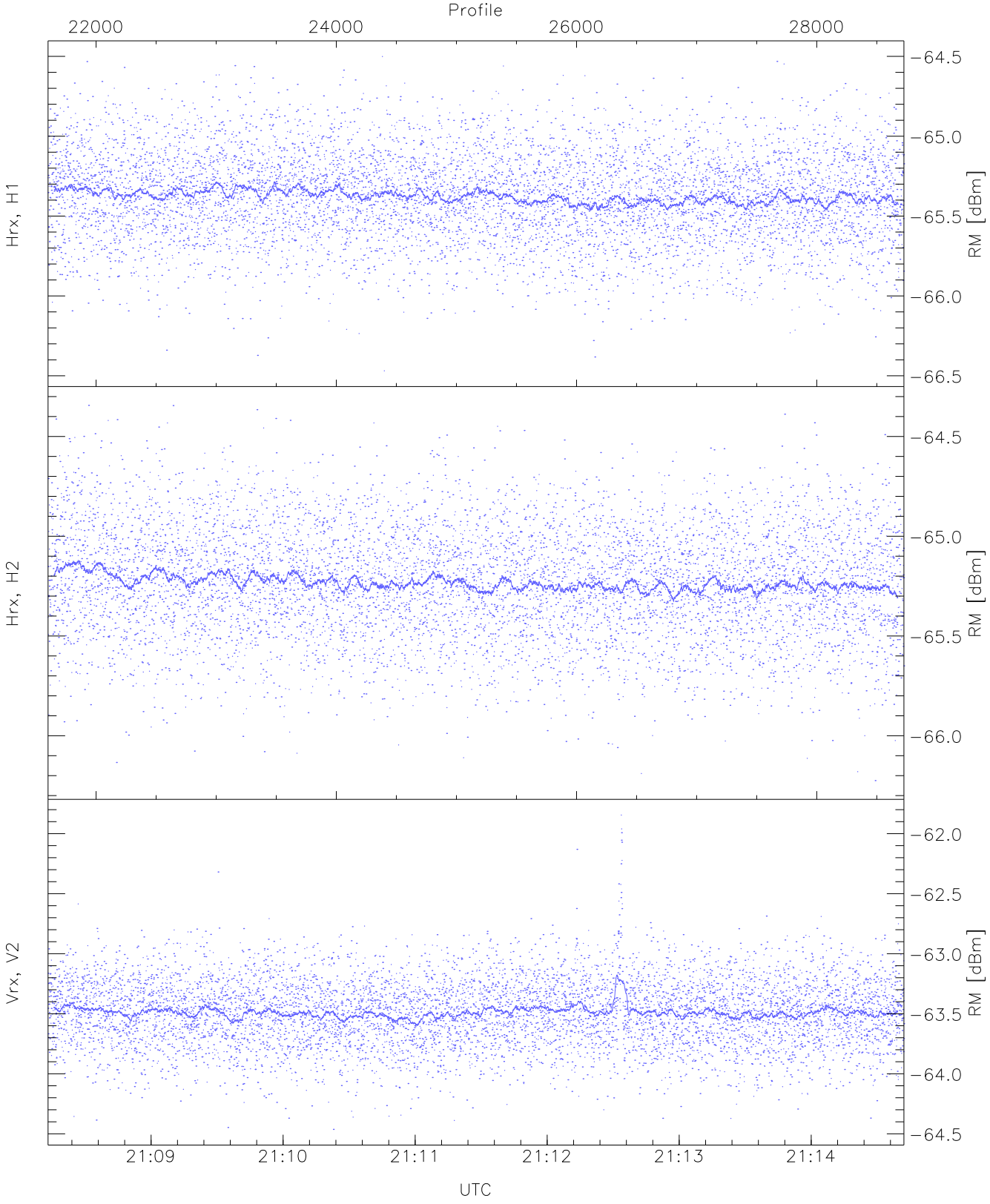

Profile(smooth=101, mean(NF)|std(NF)=6.32|0.14)
22000
24000
26000
28000
Hrx
6.6
6.4
6.2
6.0
Noise Figure [dB]
21:09
21:10
21:11
21:12
21:13
21:14
UTC


Profile(smooth=101, mean(G)|std(G)=66.27|0.14)
22000
24000
26000
28000
Hrx
66.6
66.5
66.4
66.3
66.2
66.1
66.0
Receiver Gain [dB]
21:09
21:10
21:11
21:12
21:13
21:14
UTC



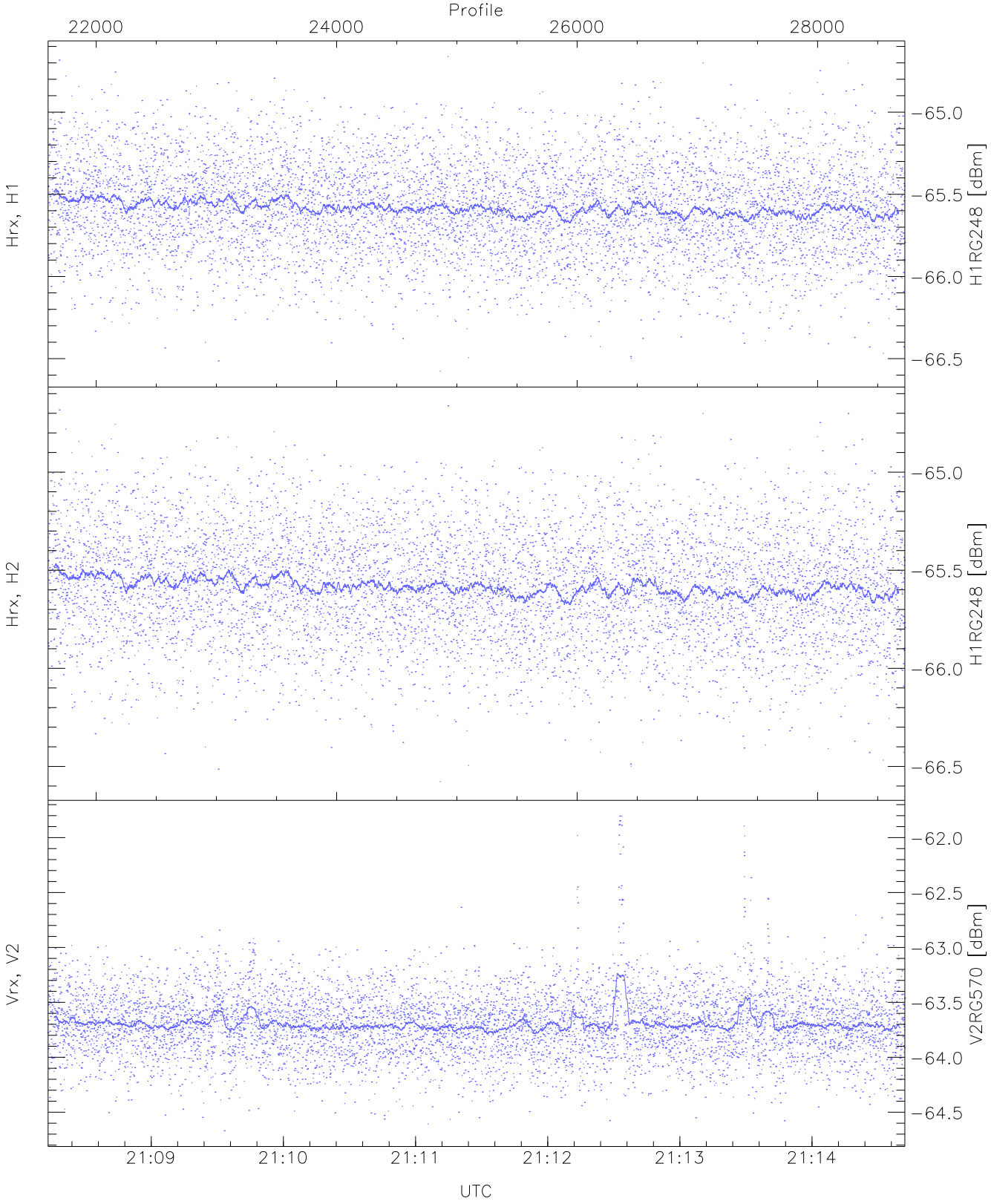
WCR2 CPP Receivers Noise Power from the Warm Loads Measurements

	Min	Max	Mean	Median	StDev
Hrx, H1(WL [dBm])	-66.35	-64.12	-65.19	-65.19	-77.25
Hrx, H2(WL [dBm])	-66.22	-64.07	-65.22	-65.23	-77.34
Vrx, V2(WL [dBm])	-64.48	-62.49	-63.43	-63.43	-75.61



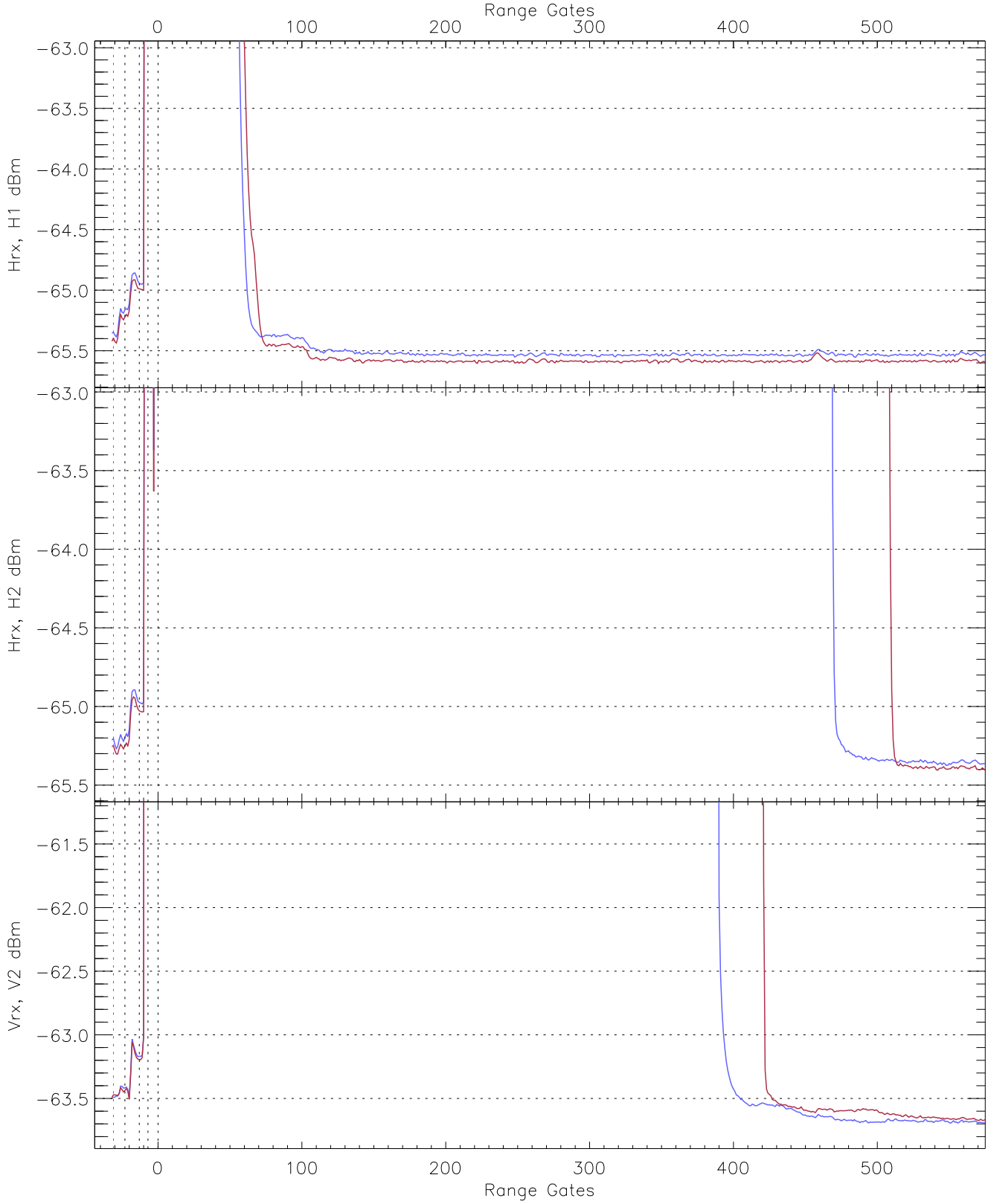
WCR2 CPP Receivers Noise Power from the Sky/RM Measurements

	Min	Max	Mean	Median	StDev
Hrx, H1(RM [dBm])	-66.47	-64.50	-65.37	-65.37	-77.47
Hrx, H2(RM [dBm])	-66.22	-64.34	-65.23	-65.23	-77.35
Vrx, V2(RM [dBm])	-64.46	-61.85	-63.48	-63.49	-75.46

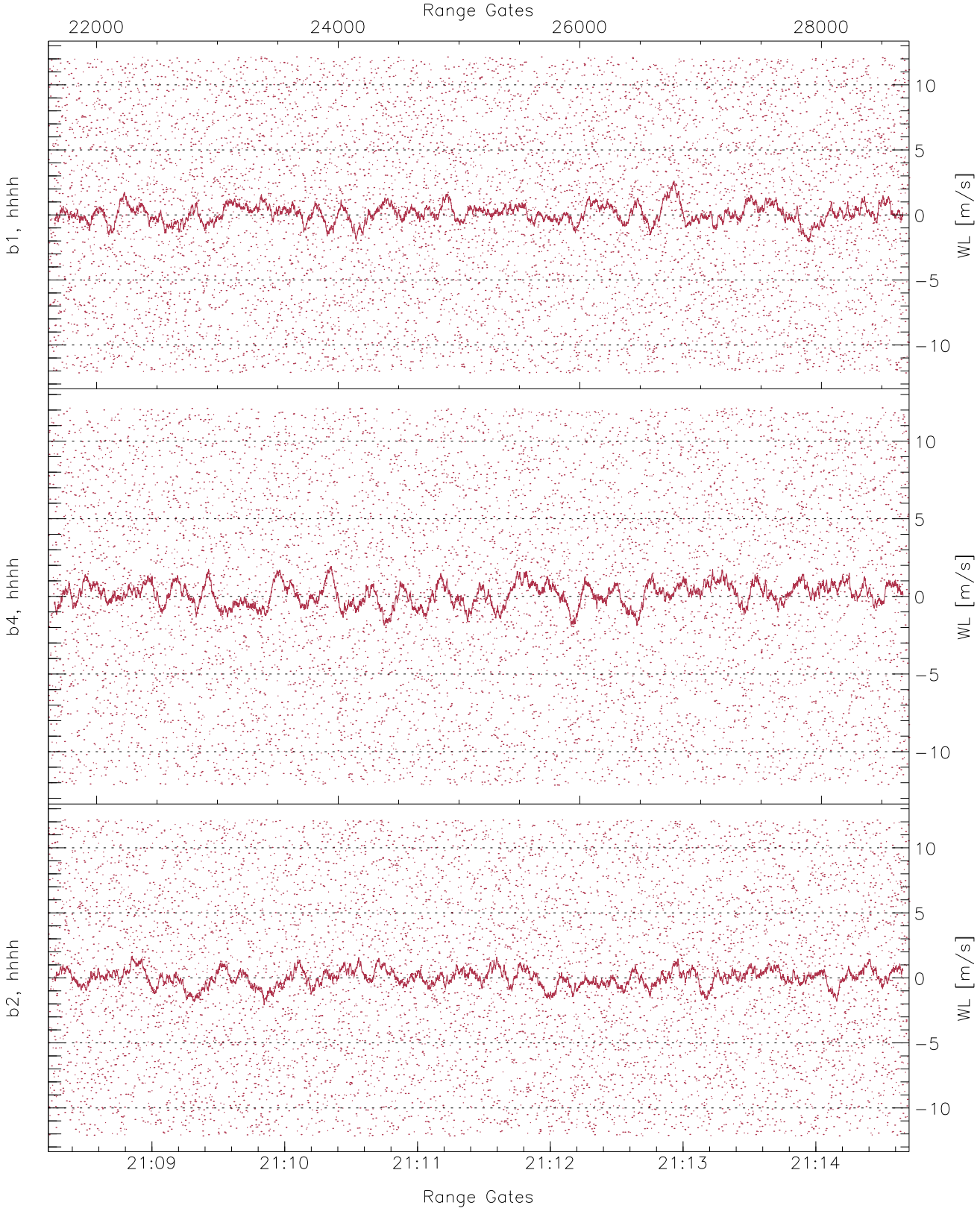


WCR2 CPP "Best" estimate Receivers Noise Power

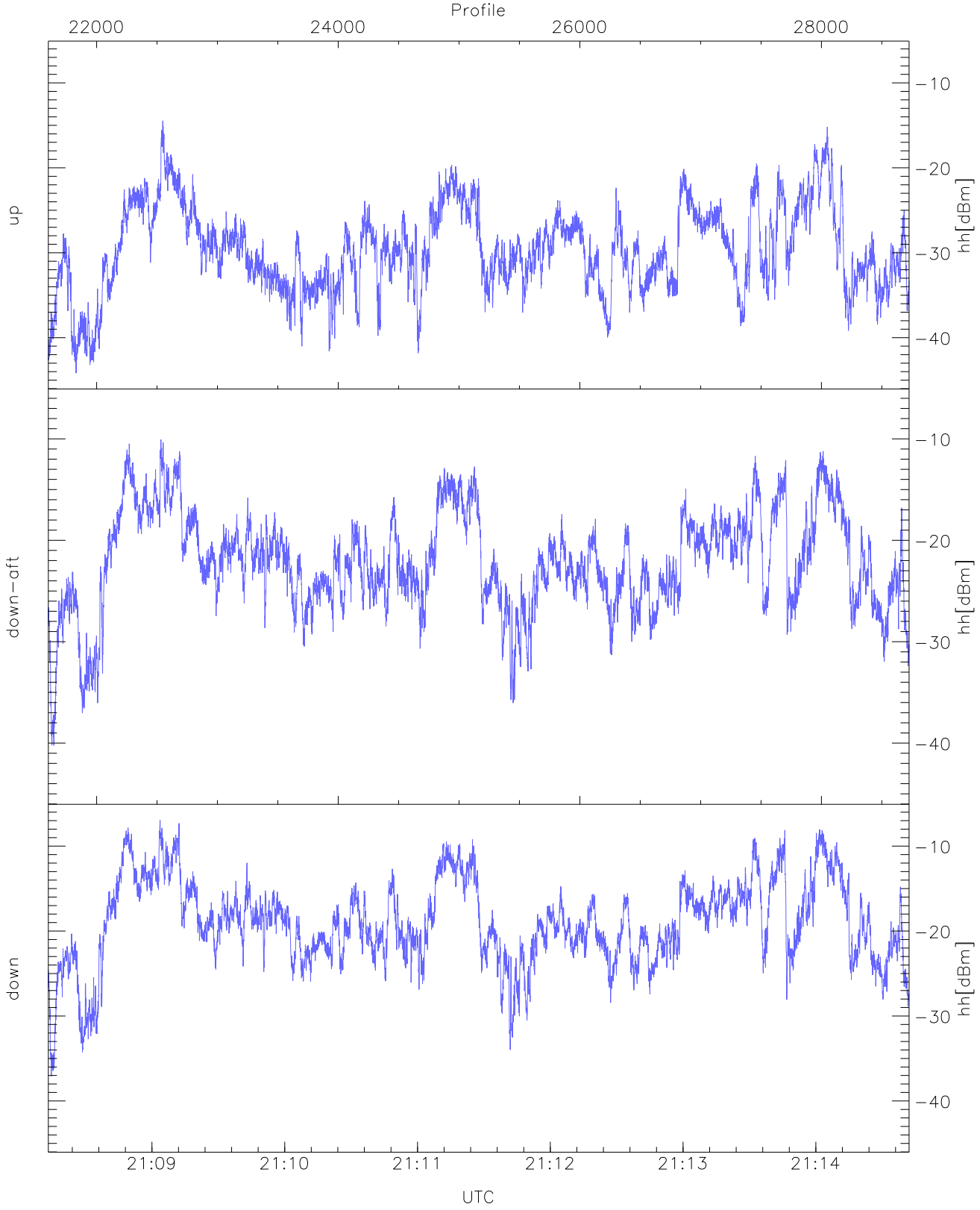
	Min	Max	Mean	Median	StDev
H1RG248 [dBm]	-66.58	-64.66	-65.58	-65.58	-77.66
H1RG248 [dBm]	-66.58	-64.66	-65.58	-65.58	-77.66
V2RG570 [dBm]	-64.67	-61.80	-63.69	-63.70	-75.27



WCR2 CPP Averaged Received power for all recorded gates
blue: 210813-211127, 3564 profiles averaged
red: 211127-211442, 3564 profiles averaged

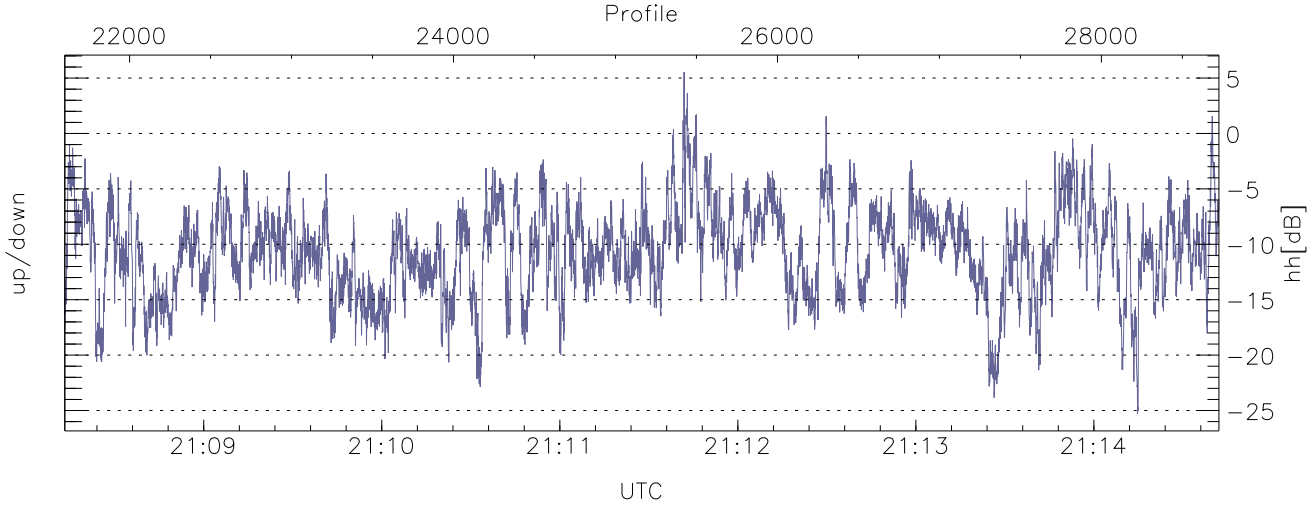


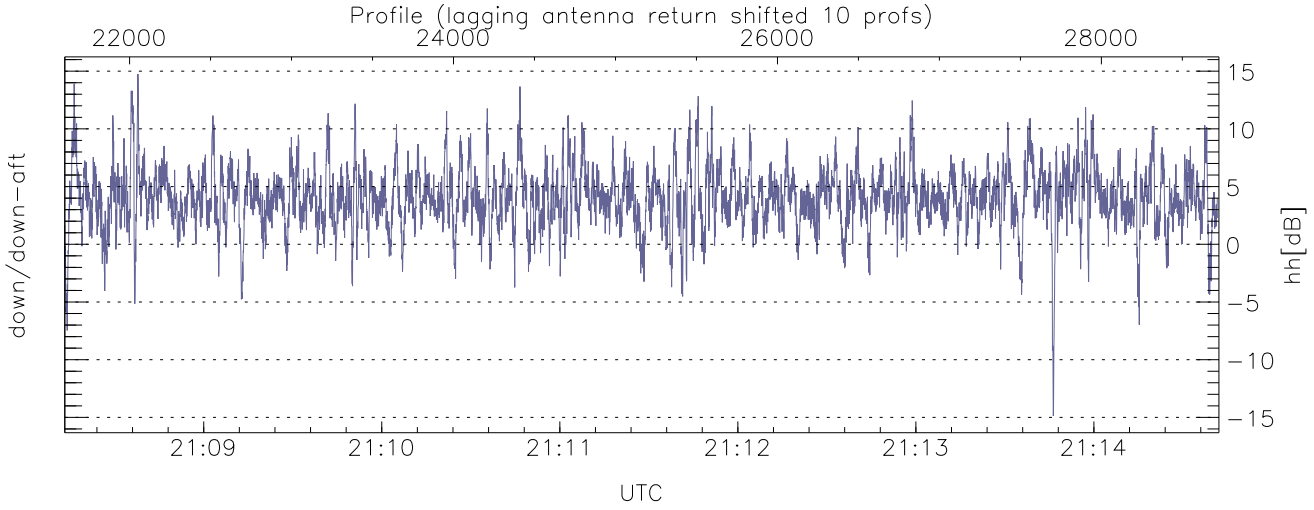
WCR2 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements



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

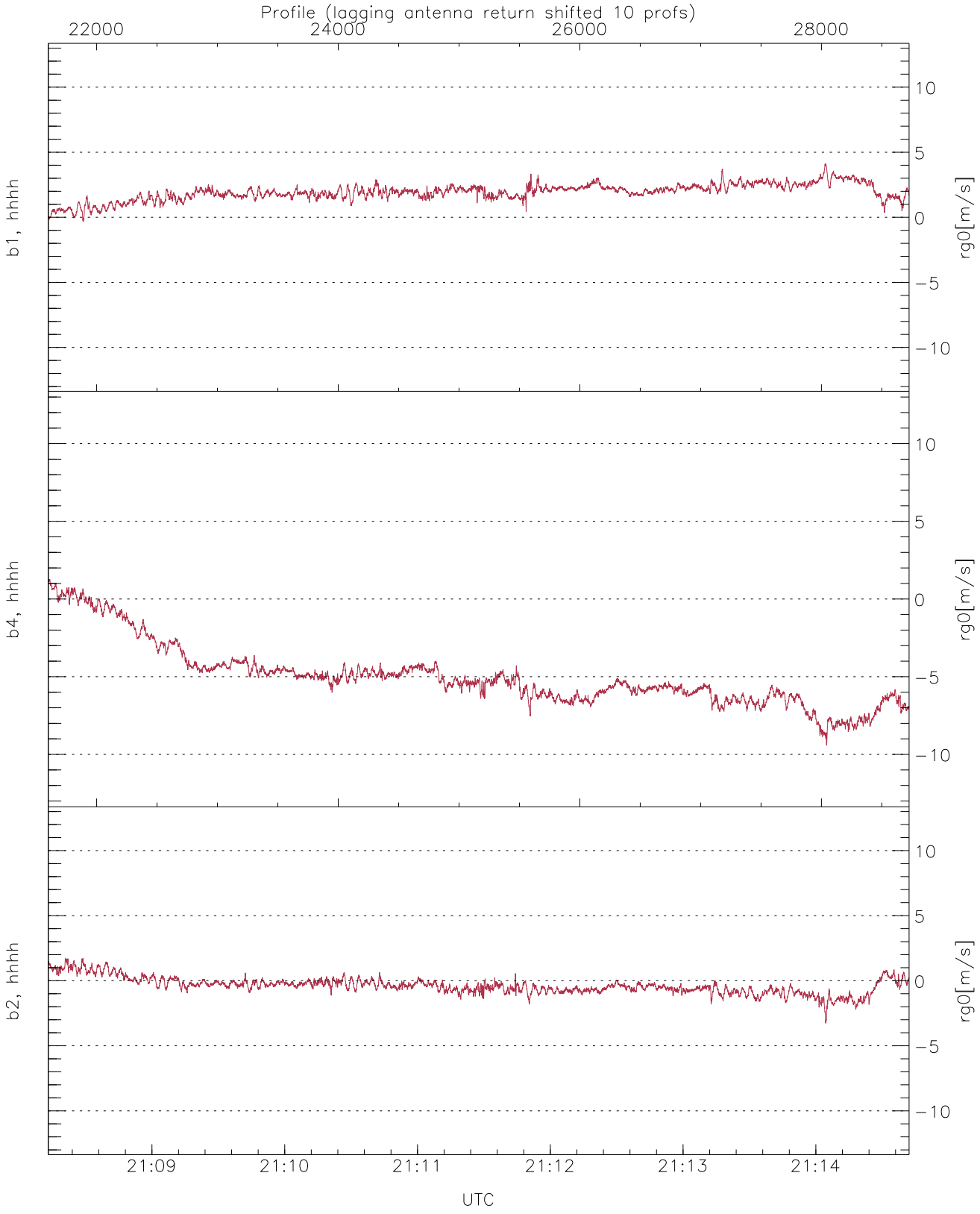
	Min	Max	Mean
up(hh[dBm])	-44.17	-14.46	-26.85
down-aft(hh[dBm])	-40.24	-10.08	-19.66
down(hh[dBm])	-37.08	-6.94	-16.49





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

	Min	Max	Mean
up/down(hh[dB])	-25.30	5.54	-9.76
down/down-aft(hh[dB])	-14.85	14.76	4.02



WCR2 CPP Doppler Velocity Products at 105.1 m range

	Min	Max	Mean	StDev
b1, hhhh(rg0[m/s])	-0.32	4.14	1.93	0.63
b4, hhhh(rg0[m/s])	-9.43	1.28	-5.00	2.02
b2, hhhh(rg0[m/s])	-3.28	1.72	-0.39	0.62