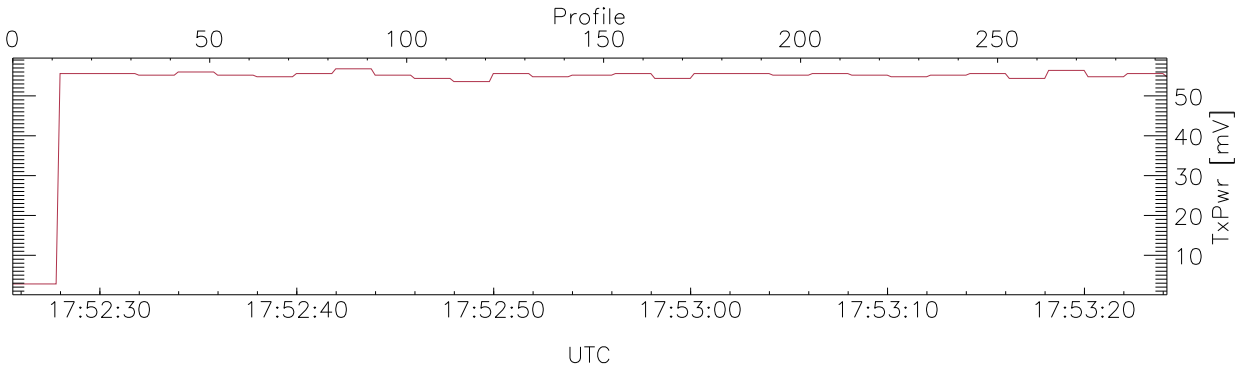
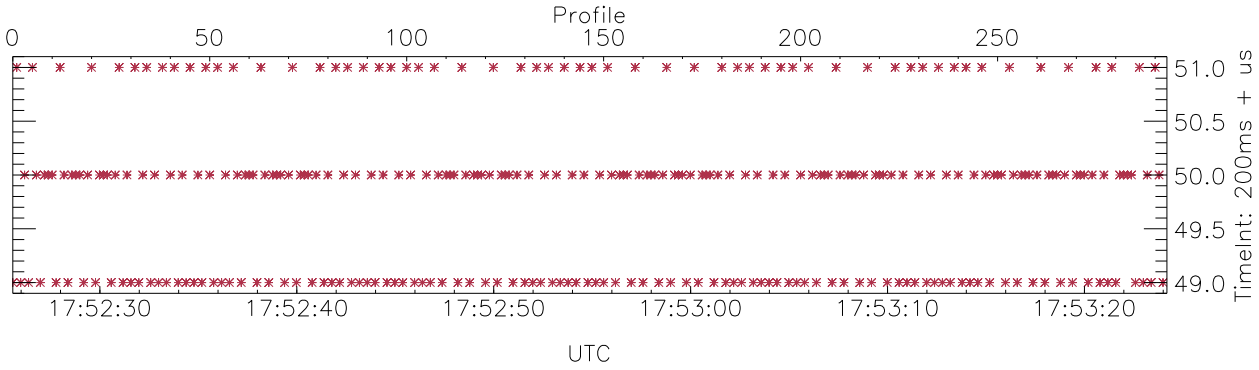
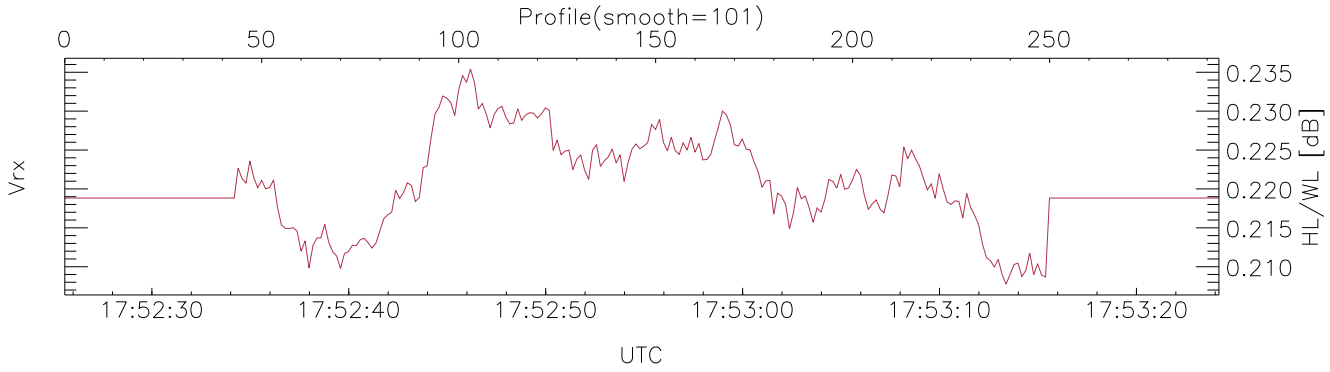
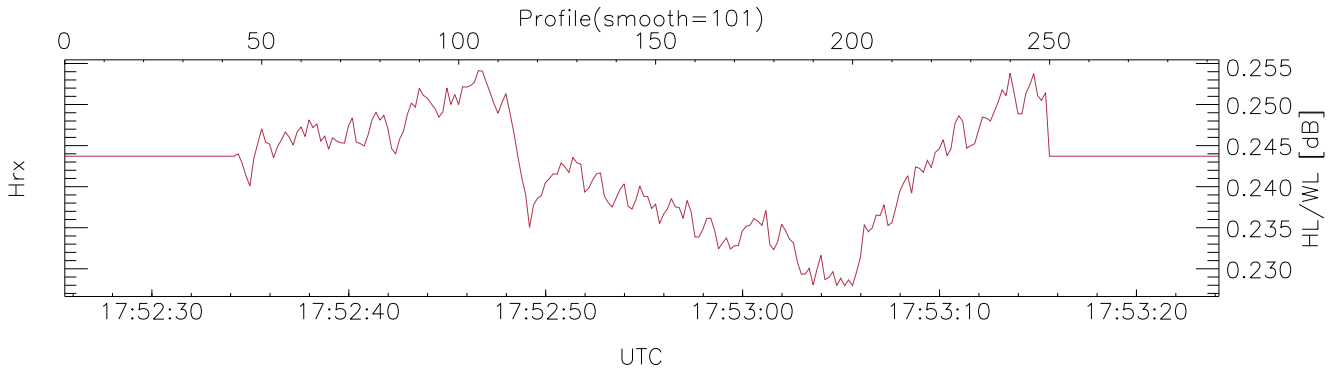


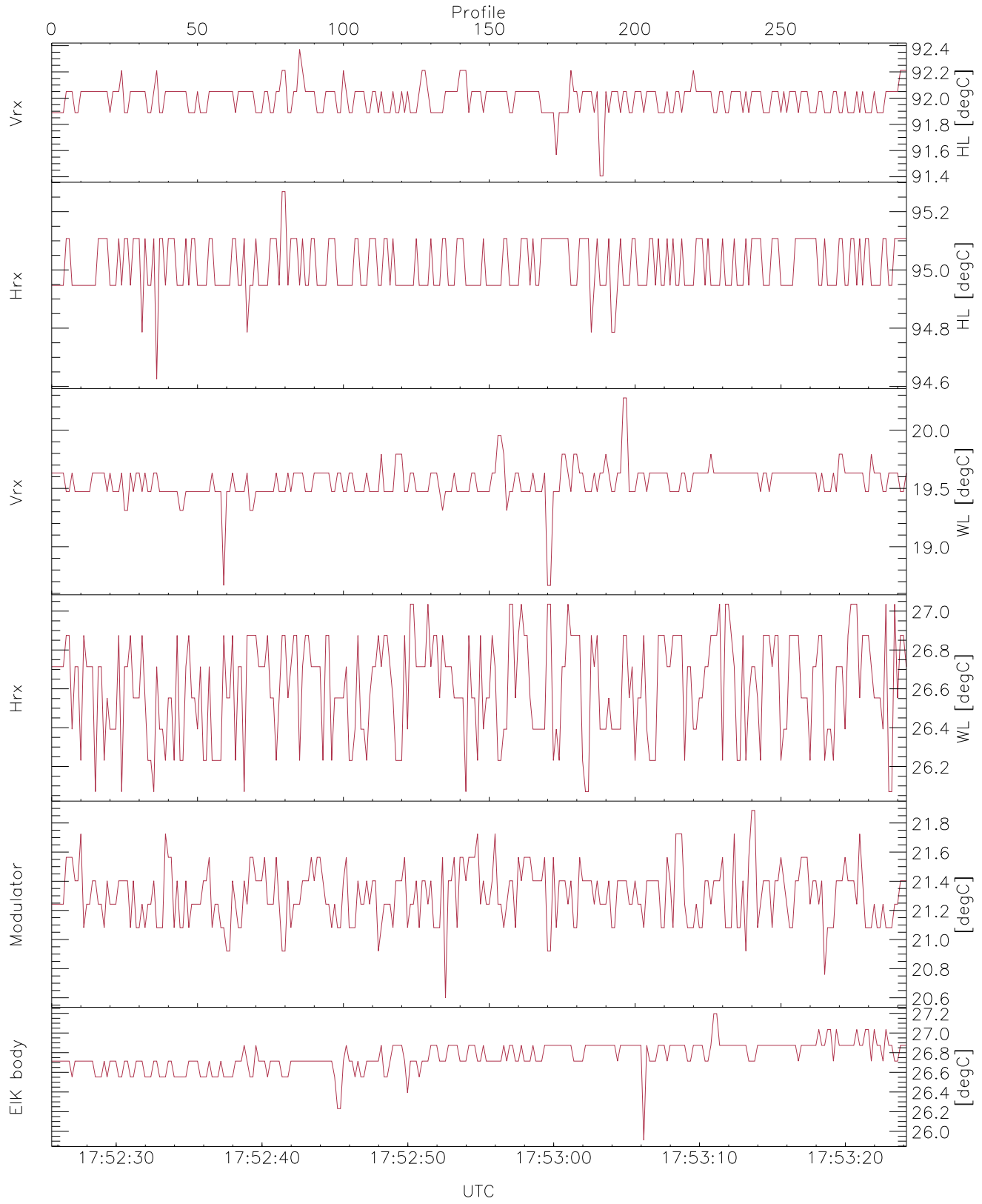



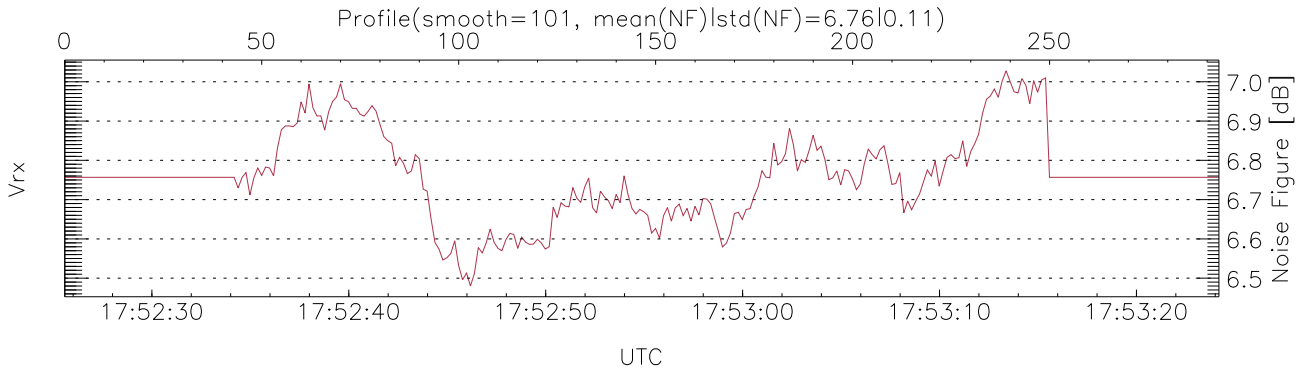

## WCR2 SPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

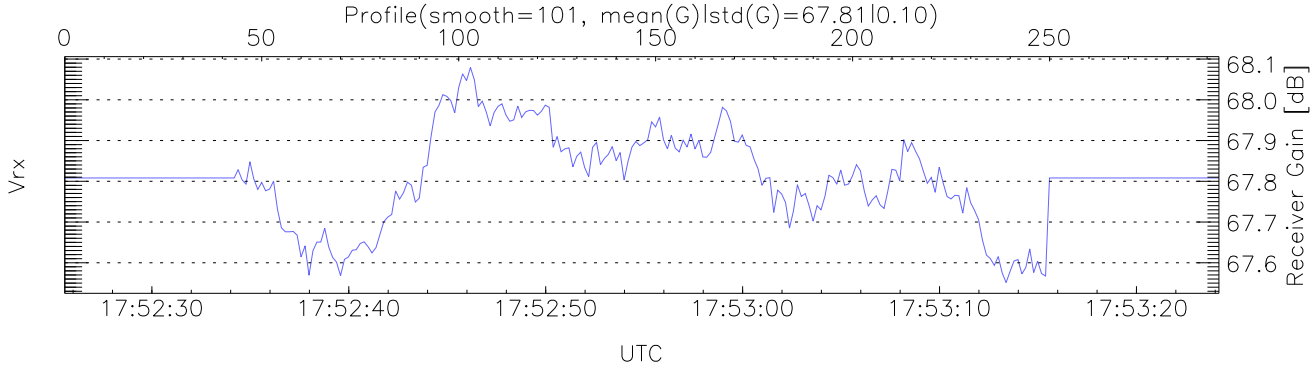
UTC: 17:52:26-17:53:24, Dur: 58.61s
TimeCor: 0.00s, TimeFlg: 10, TFPstatus constant
TimeInt/PPS(min,max,mn,std): 200.0,200.1,200.1,0.0 ms / 5,5,5
NumRec(r/t): 294/294, 0-293/17:52:26-17:53:24
AcqTime: 200.0ms, Rate: 17KB/s, Averages: 500
Pulse: 200ns, IFF: 5.0MHz, Tx: V2
PRF: 20.0 KHz, IGS: 50us
Range(min,max,rgs): 97,630,7.5 m, Gates: 72, Aspect: 0.3

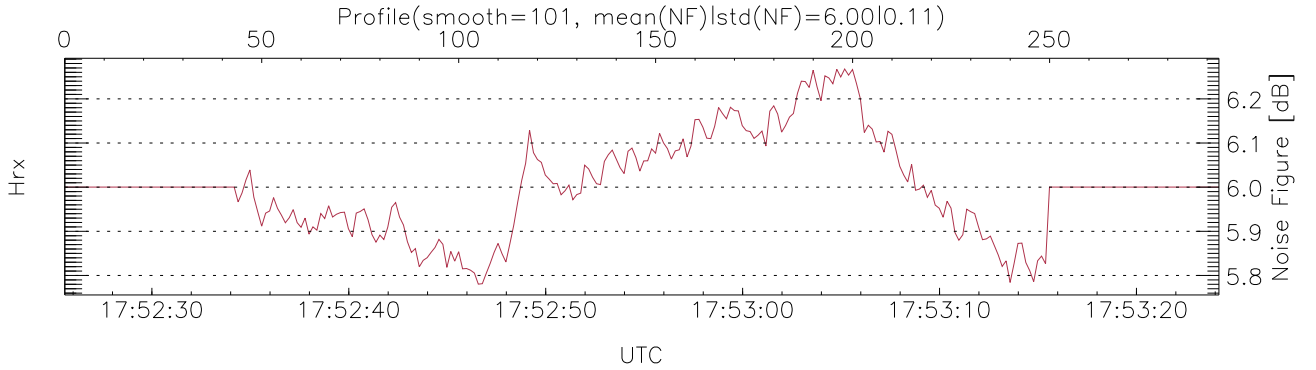


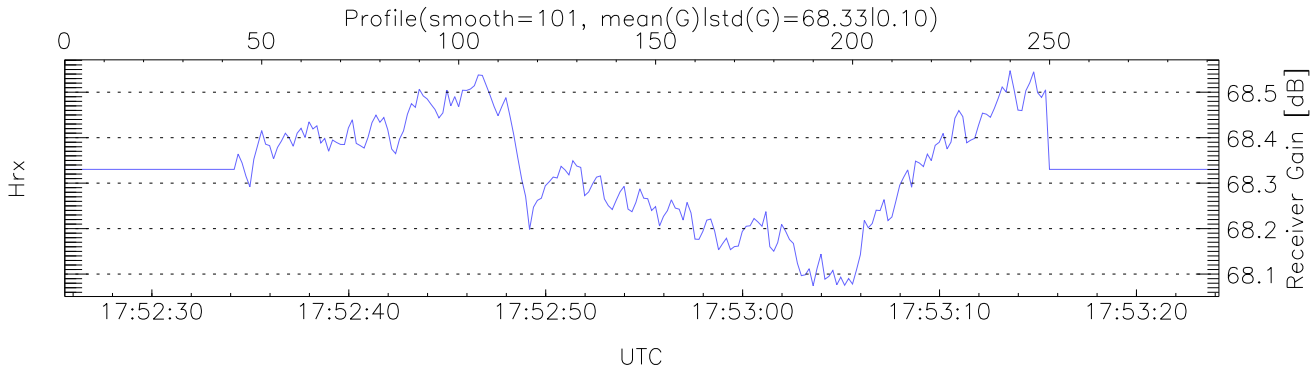

WCR2 SPP Temperature Monitor: Hot Loads, Warm Loads, Modulator Body, EIK Body

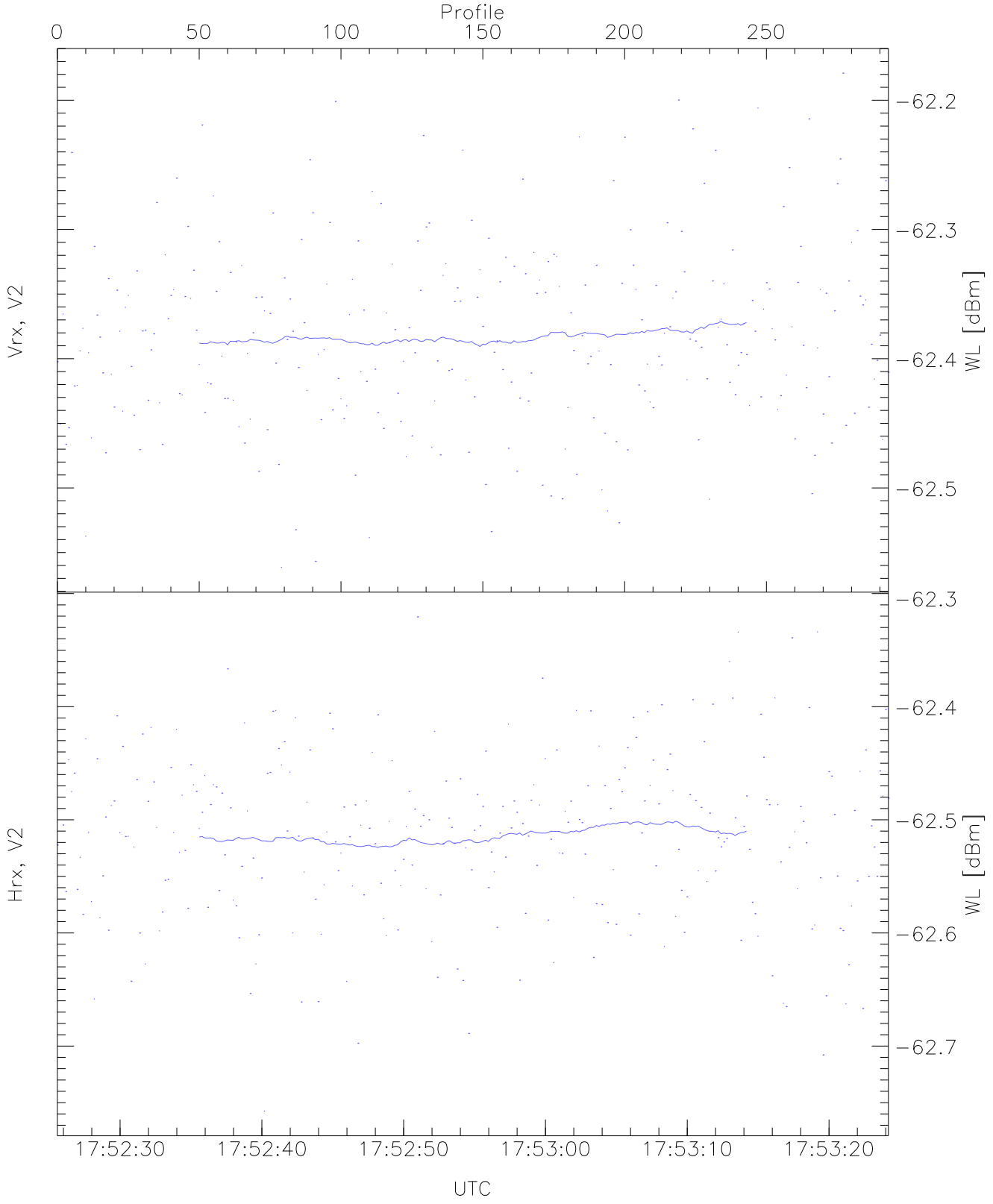
mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,94,18,26,20,25
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,95,20,27,21,27
LOalarm(20,80,240,2.8,14.8 MHz): None
EIK/Modulator Faults: None


Profile(smooth=101, mean(NF)|std(NF)=6.76|0.11)
0
50
100
150
200
250
Vrx
7.0
6.9
6.8
6.7
6.6
6.5
Noise Figure [dB]
17:52:30
17:52:40
17:52:50
17:53:00
17:53:10
17:53:20
UTC


Profile(smooth=101, mean(G)|std(G)=67.81|0.10)
0
50
100
150
200
250
Vrx
68.1
68.0
67.9
67.8
67.7
67.6
Receiver Gain [dB]
17:52:30
17:52:40
17:52:50
17:53:00
17:53:10
17:53:20
UTC

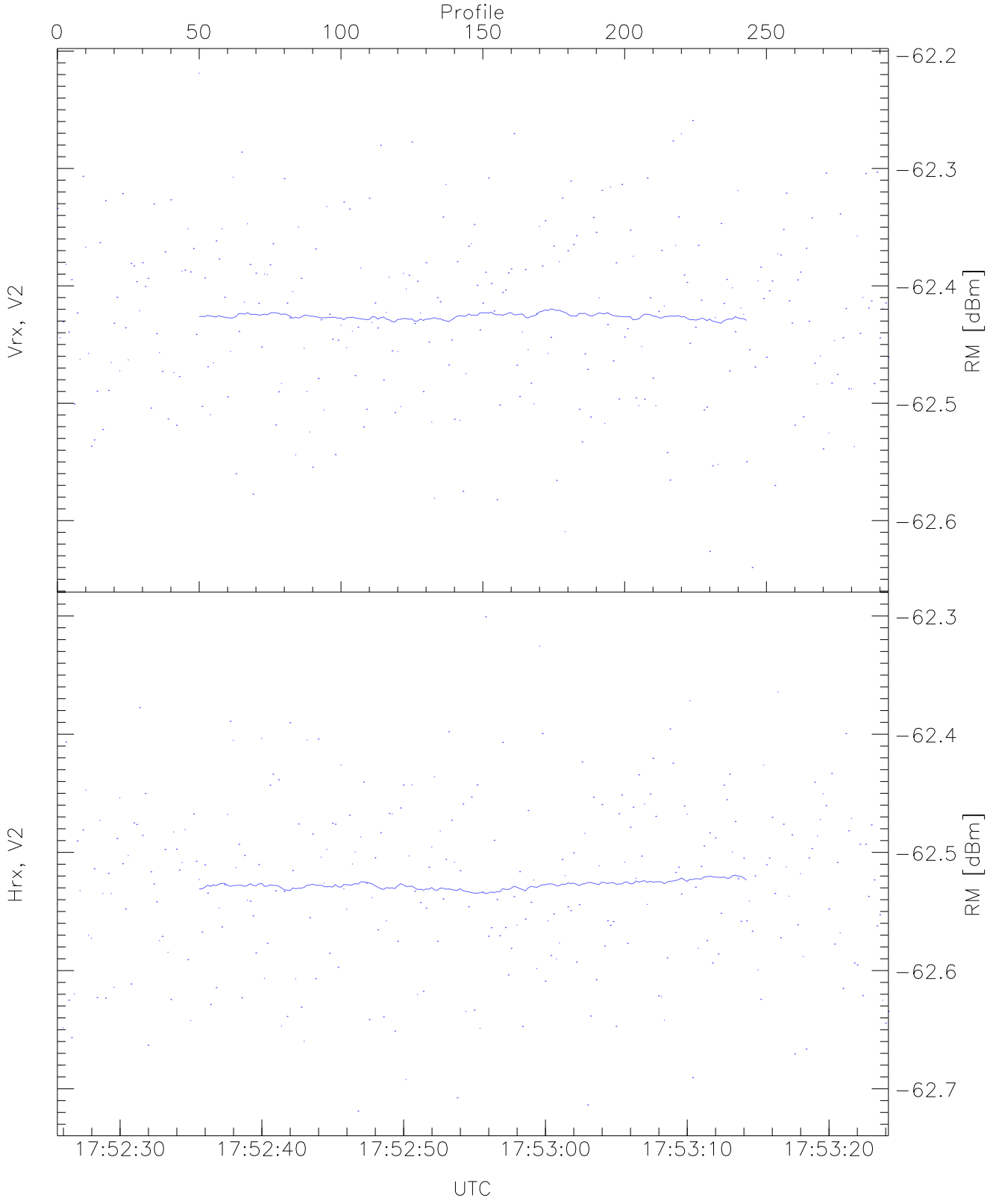

Profile(smooth=101, mean(NF)|std(NF)=6.00|0.11)
0
50
100
150
200
250
Hrx
6.2
6.1
6.0
5.9
5.8
Noise Figure [dB]
17:52:30
17:52:40
17:52:50
17:53:00
17:53:10
17:53:20
UTC


Profile(smooth=101, mean(G)|std(G)=68.33|0.10)
0
50
100
150
200
250
Hrx
68.5
68.4
68.3
68.2
68.1
Receiver Gain [dB]
17:52:30
17:52:40
17:52:50
17:53:00
17:53:10
17:53:20
UTC



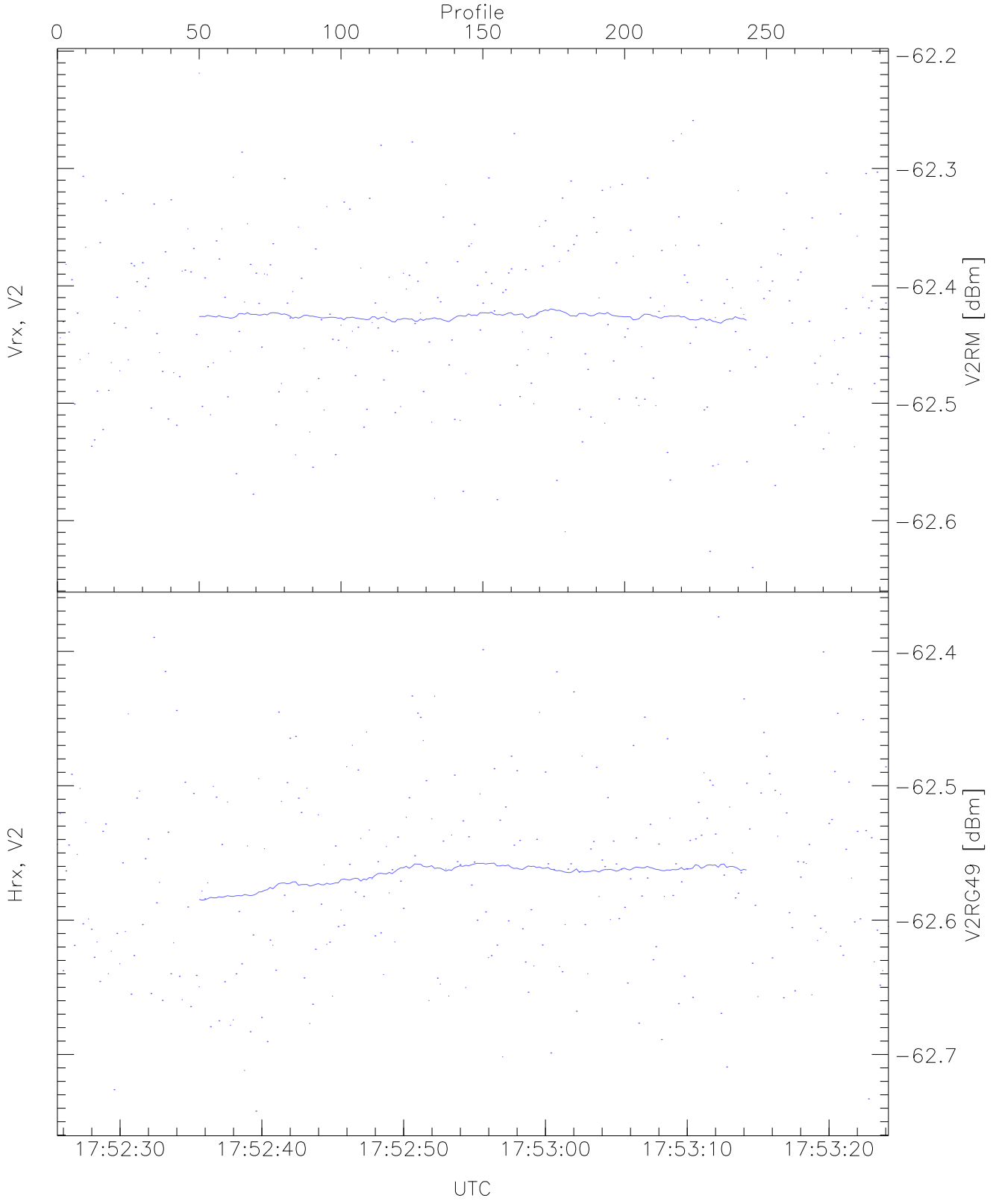

WCR2 SPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Vrx, V2(WL [dBm]) | -62.56 | -62.18 | -62.38 | -62.39 | -80.24 |
| Hrx, V2(WL [dBm]) | -62.76 | -62.32 | -62.51 | -62.51 | -80.28 |



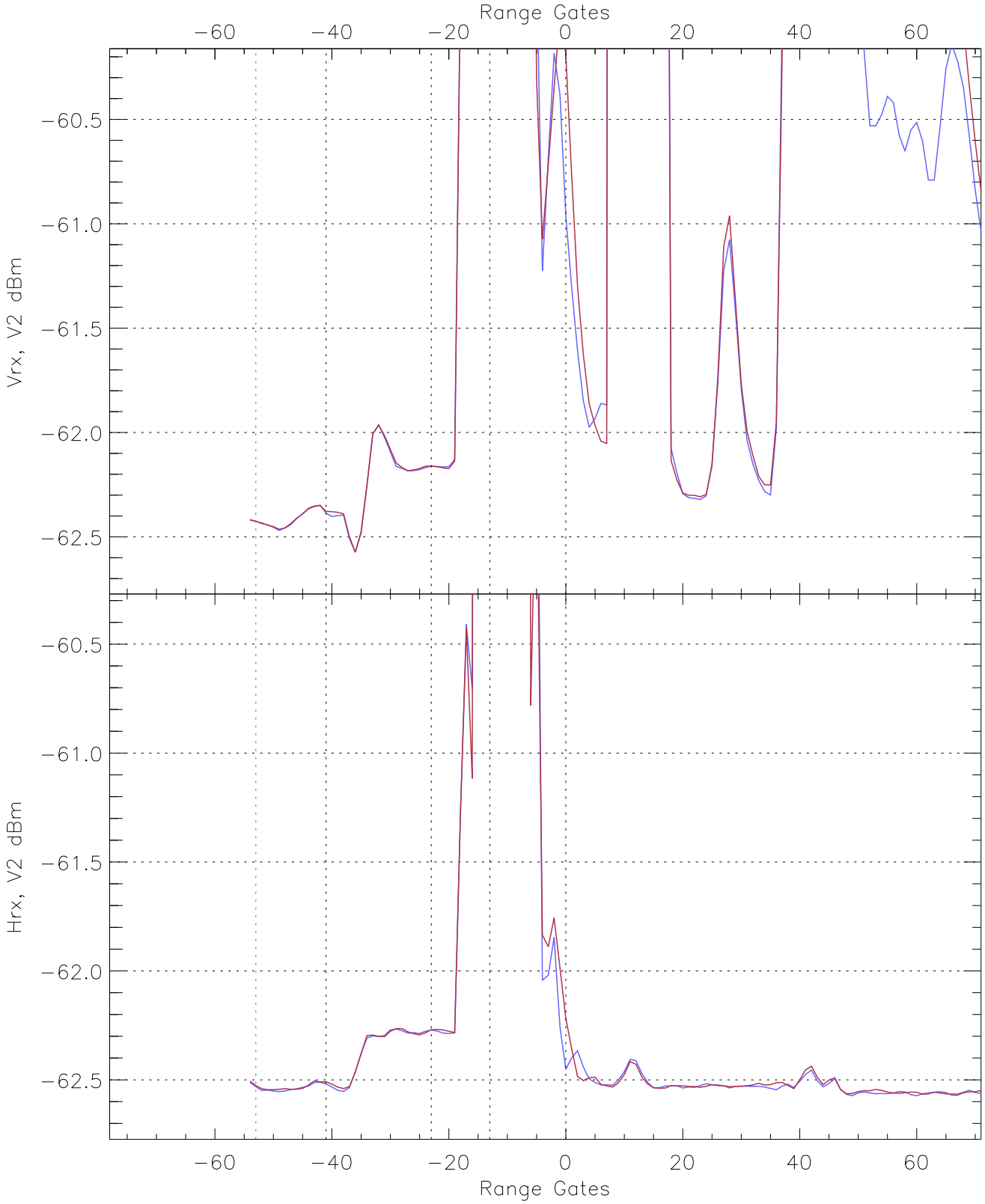

WCR2 SPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Vrx, V2(RM [dBm]) | -62.64 | -62.22 | -62.43 | -62.42 | -80.20 |
| Hrx, V2(RM [dBm]) | -62.72 | -62.30 | -62.53 | -62.53 | -80.29 |

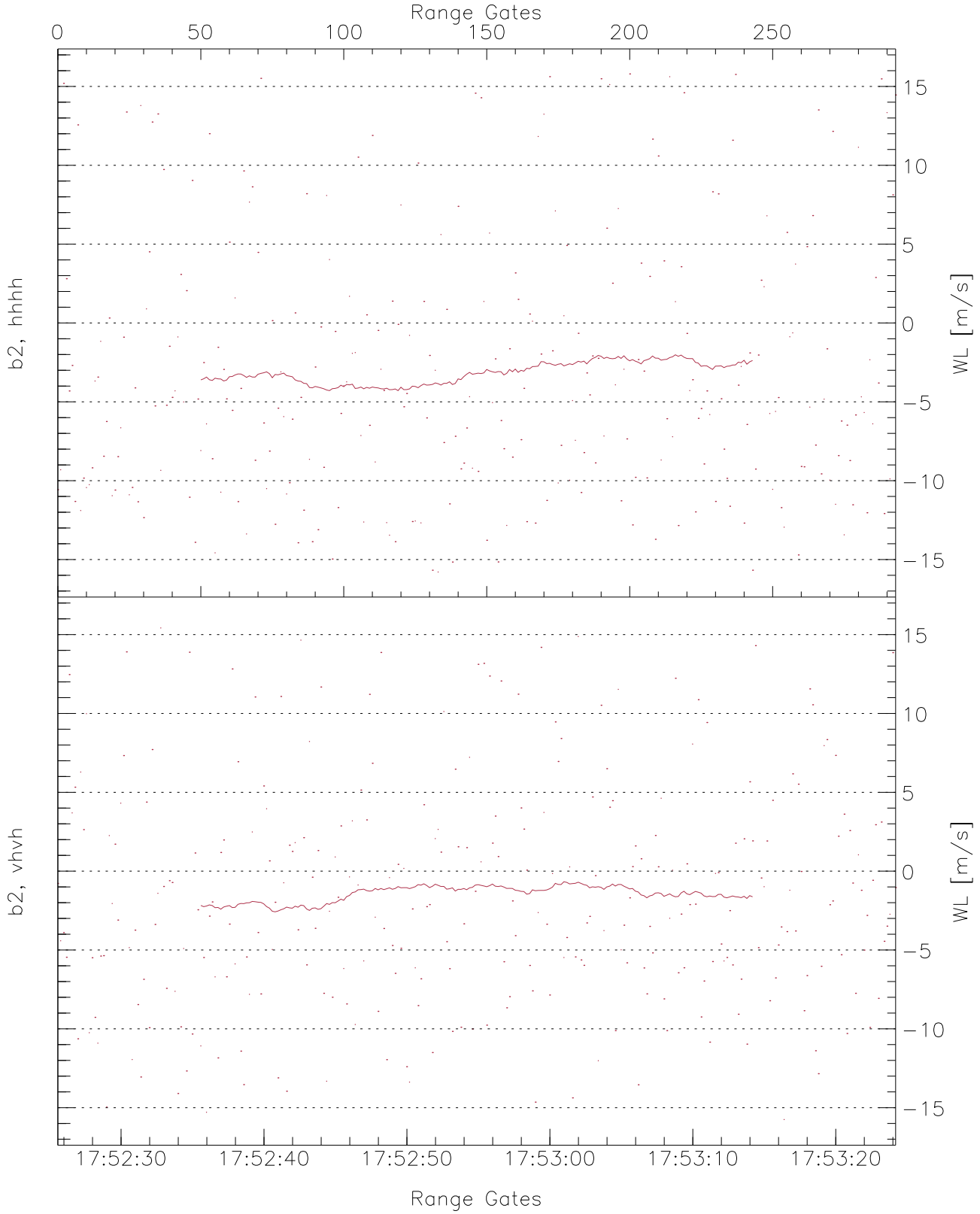



WCR2 SPP "Best" estimate Receivers Noise Power

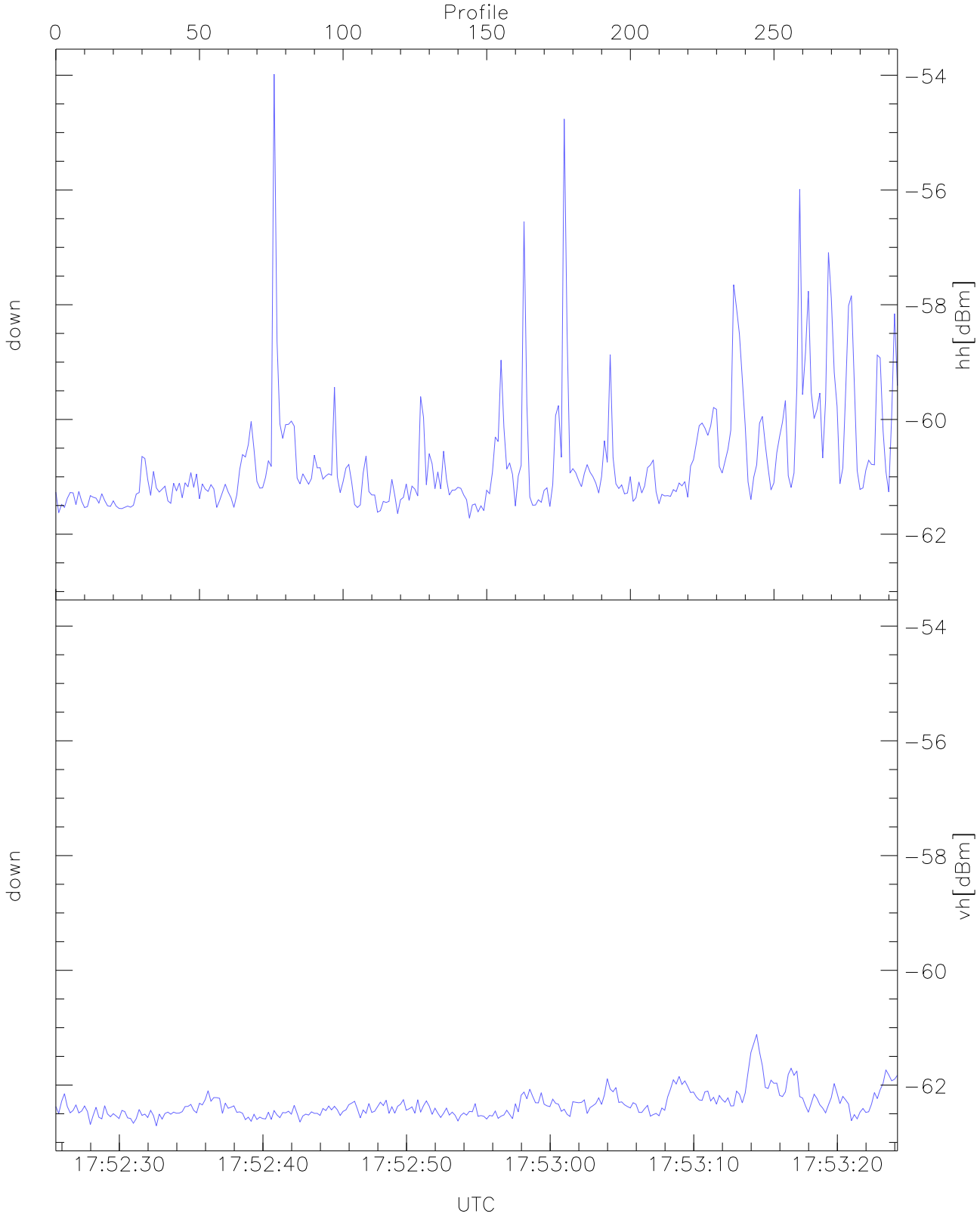
| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| V2RM [dBm] | -62.64 | -62.22 | -62.43 | -62.42 | -80.20 |
| V2RG49 [dBm] | -62.74 | -62.37 | -62.57 | -62.56 | -80.52 |




WCR2 SPP Averaged Received power for all recorded gates
blue: 175226-175254, 148 profiles averaged
red: 175254-175324, 147 profiles averaged

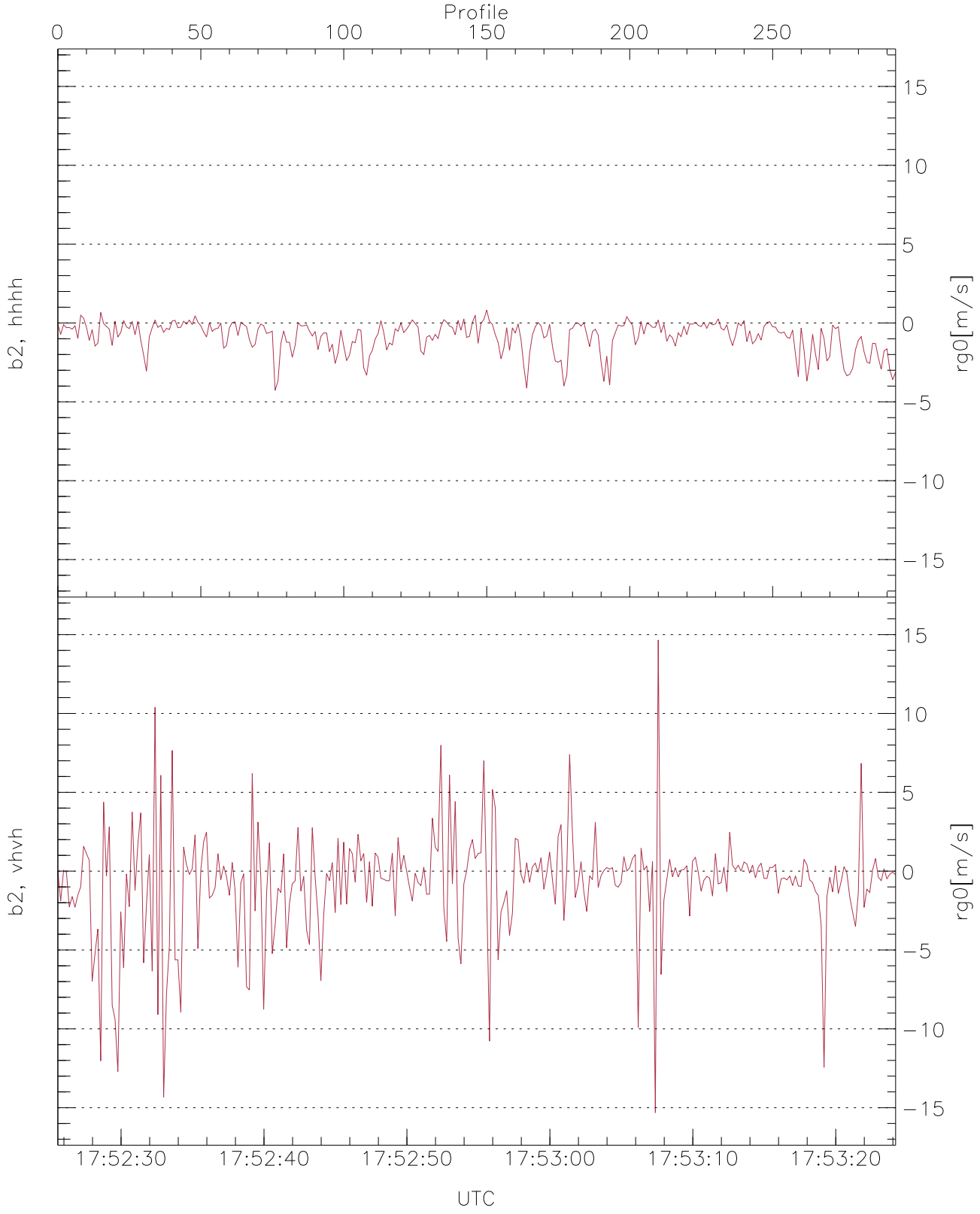



WCR2 SPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements




WCR2 SPP Received Power Products for Range gate 0 (97.6 m)

| | Min | Max | Mean |
|---|---|---|---|
| down(hh[dBm]) | -61.72 | -53.98 | -60.56 |
| down(vh[dBm]) | -62.71 | -61.12 | -62.33 |




WCR2 SPP Doppler Velocity Products at 97.6 m range

| | Min | Max | Mean | StDev |
|---|---|---|---|---|
| b2, hhhh(rg0[m/s]) | -4.27 | 0.81 | -0.87 | 1.00 |
| b2, vhvh(rg0[m/s]) | -15.32 | 14.66 | -0.77 | 3.43 |