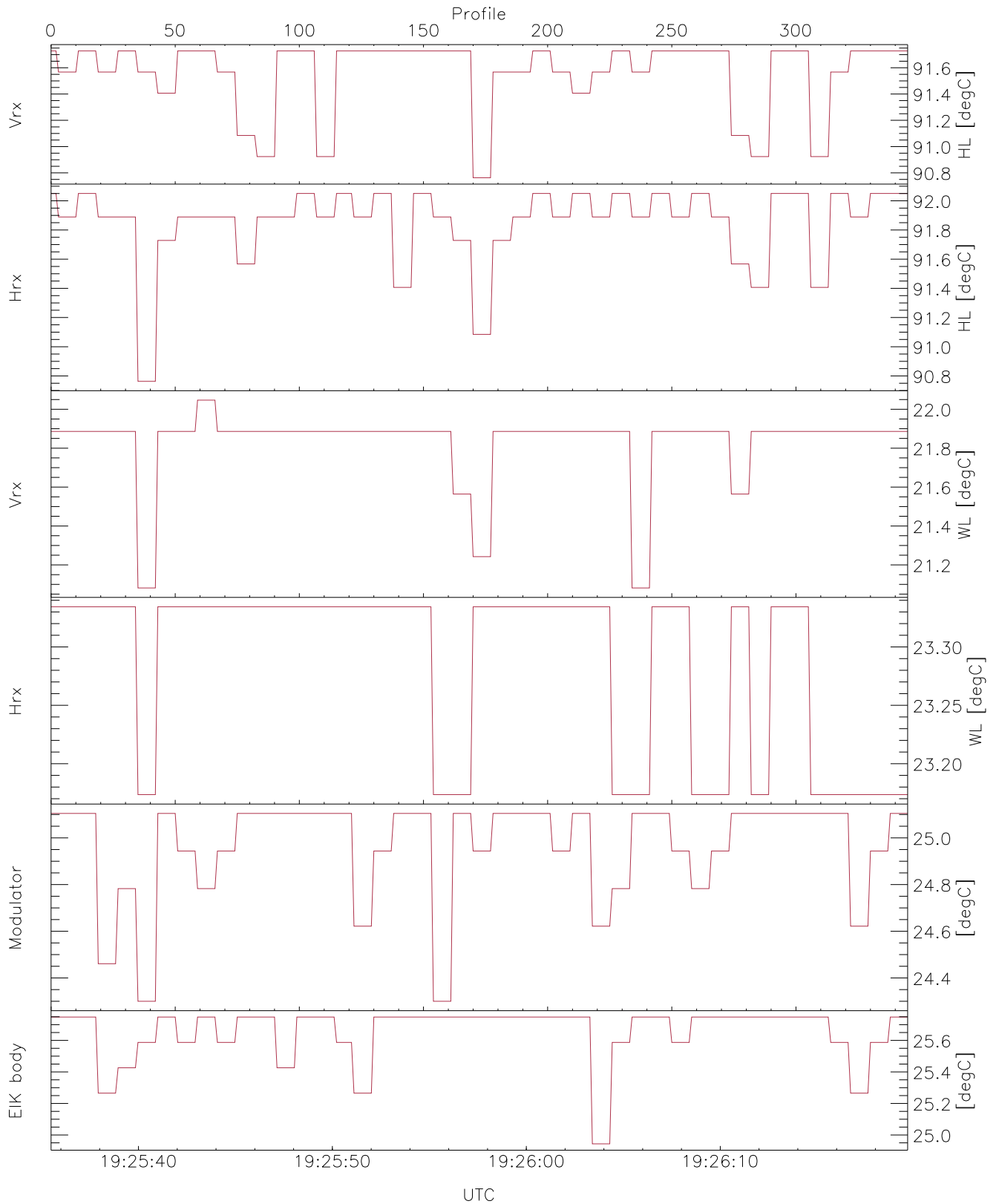


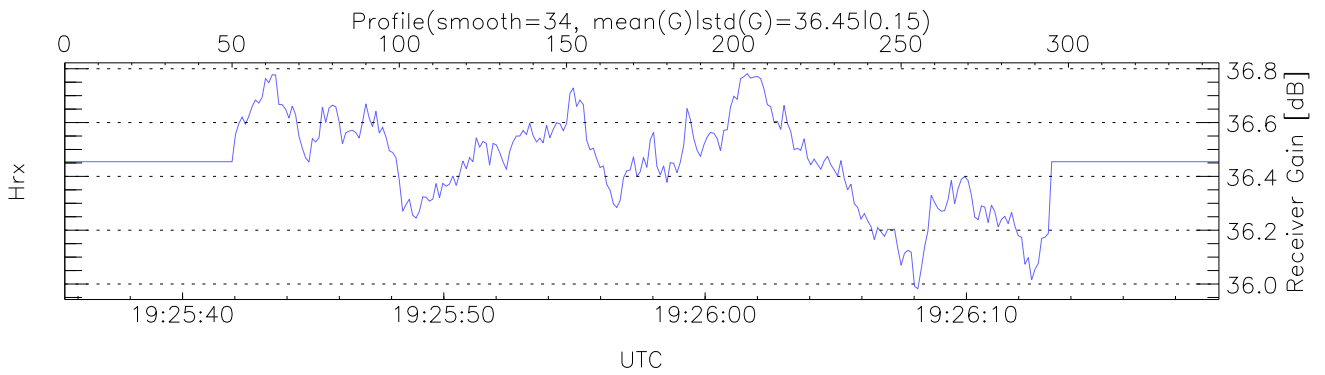
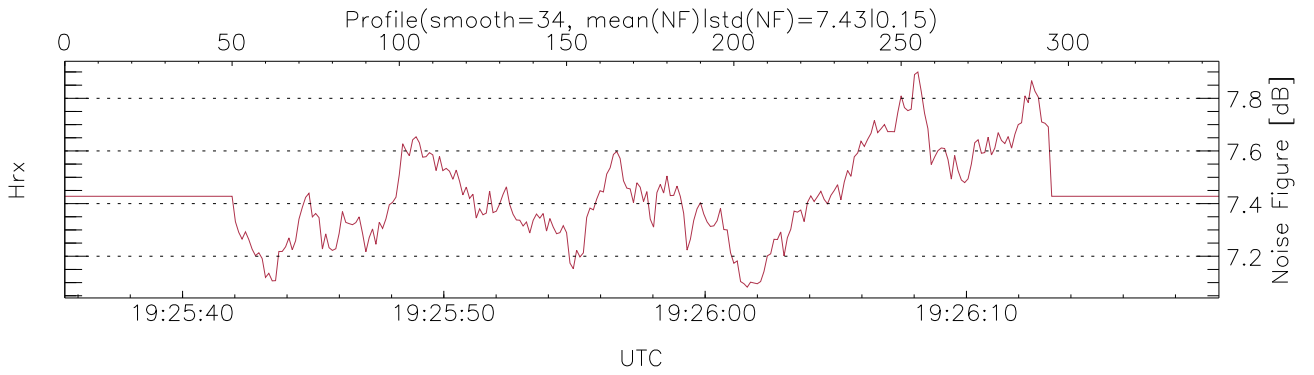
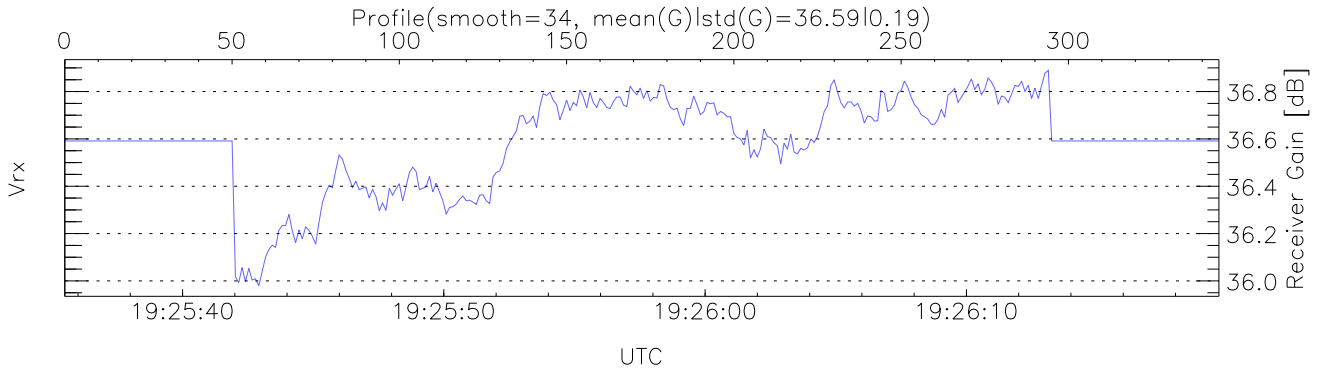
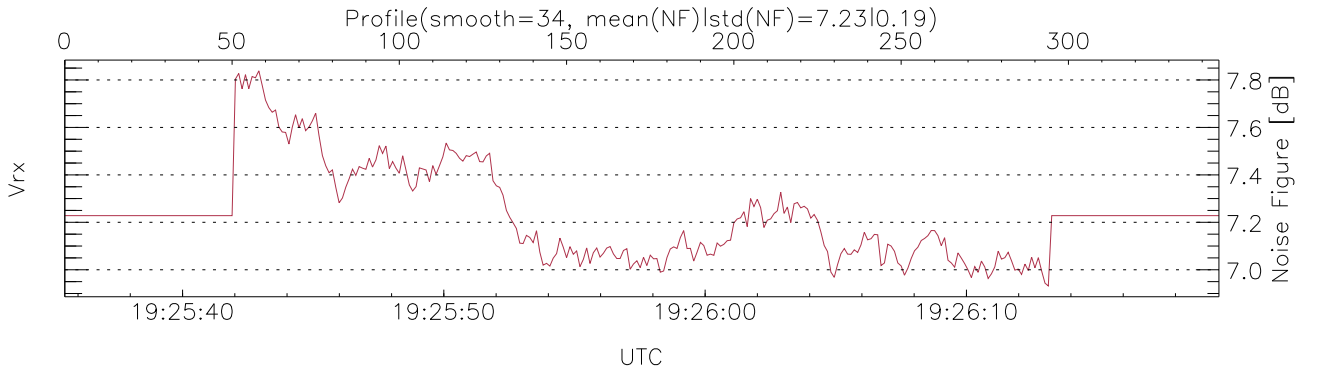
WCR3 FF4 Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

UTC: 19:25:35-19:26:20, TimeCor: 0.00s, Dur: 44.17s  
 TimeFlg: 1, TFPstatus constant.  
 TimeInt/PPS(min,max,mn,std): 128.0,128.0,128.0,0.0 ms / 7.8,7.8,7.8  
 NumRec(r/t): 346/346, 0-345/19:25:35-19:26:20  
 AcqTime: 128.0ms, Rate: 5.751MB/s, Averages (req.,actual): 10,10  
 Pulse: 250ns, IFF: 4.0MHz, Tx: H1 V1 H2 V2  
 PRF: 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: 1.3  
 Mirror(-9|0|1|2,3,9x = no mirror|sidelup|error): 1  
 FFTlen: 64, FFTwin: rectangular, # averagedFFT: 10, cr-polFFT: YES  
 FFTres: 0.493,0.493,0.493,0.493,0.493,0.493 m/s, PulsePairCalc: YES



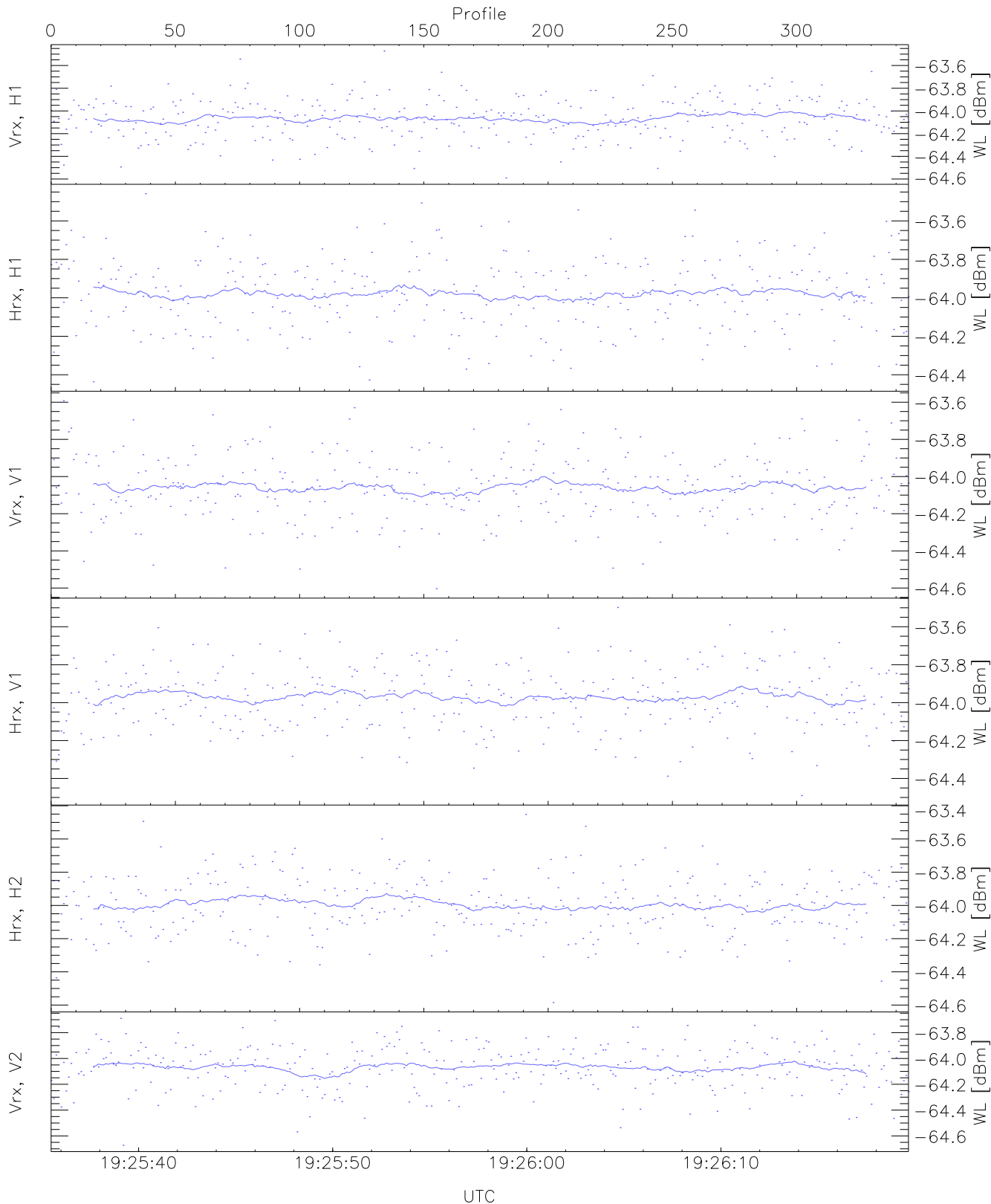
WCR3 FF4 Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 90,90,21,23,24,24  
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,92,22,23,25,25  
LOalarm(20,240,2817,14861 MHz): None  
EIK Faults(# prof affected):  
BodyCurr,Fault2,DeckF (346,346,346)



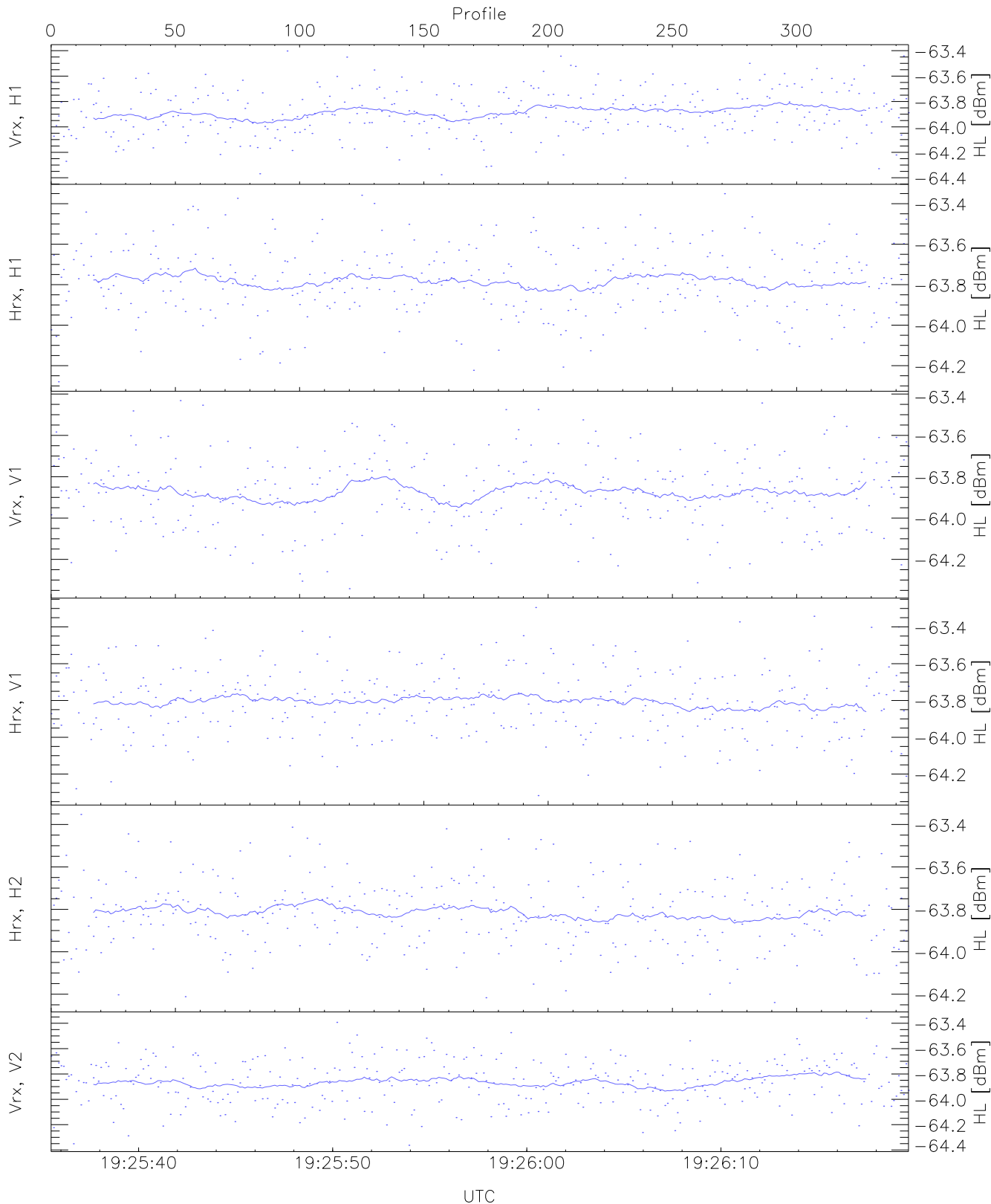
### WCR3 FF4 Receivers Gain and Noise Figure

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



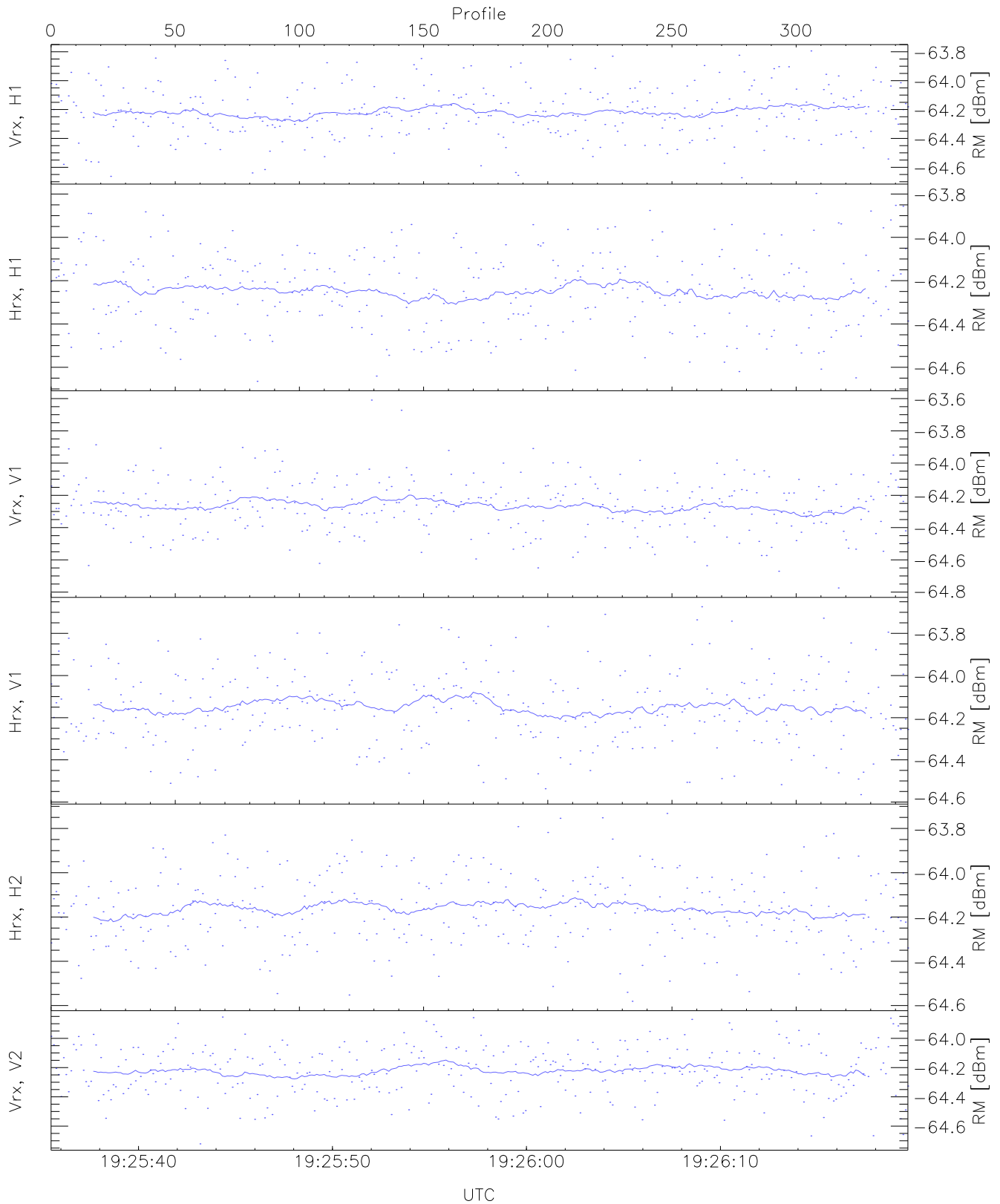
WCR3 FF4 Receivers Noise Power from the Warm Loads Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Vrx, H1 (WL [dBm]) | -64.59 | -63.47 | -64.06 | -64.06 | -78.04 |
| Hrx, H1 (WL [dBm]) | -64.44 | -63.46 | -63.98 | -63.98 | -77.82 |
| Vrx, V1 (WL [dBm]) | -64.60 | -63.59 | -64.05 | -64.06 | -78.17 |
| Hrx, V1 (WL [dBm]) | -64.49 | -63.50 | -63.97 | -63.97 | -78.24 |
| Hrx, H2 (WL [dBm]) | -64.58 | -63.45 | -63.99 | -64.00 | -78.05 |
| Vrx, V2 (WL [dBm]) | -64.67 | -63.69 | -64.07 | -64.06 | -78.33 |



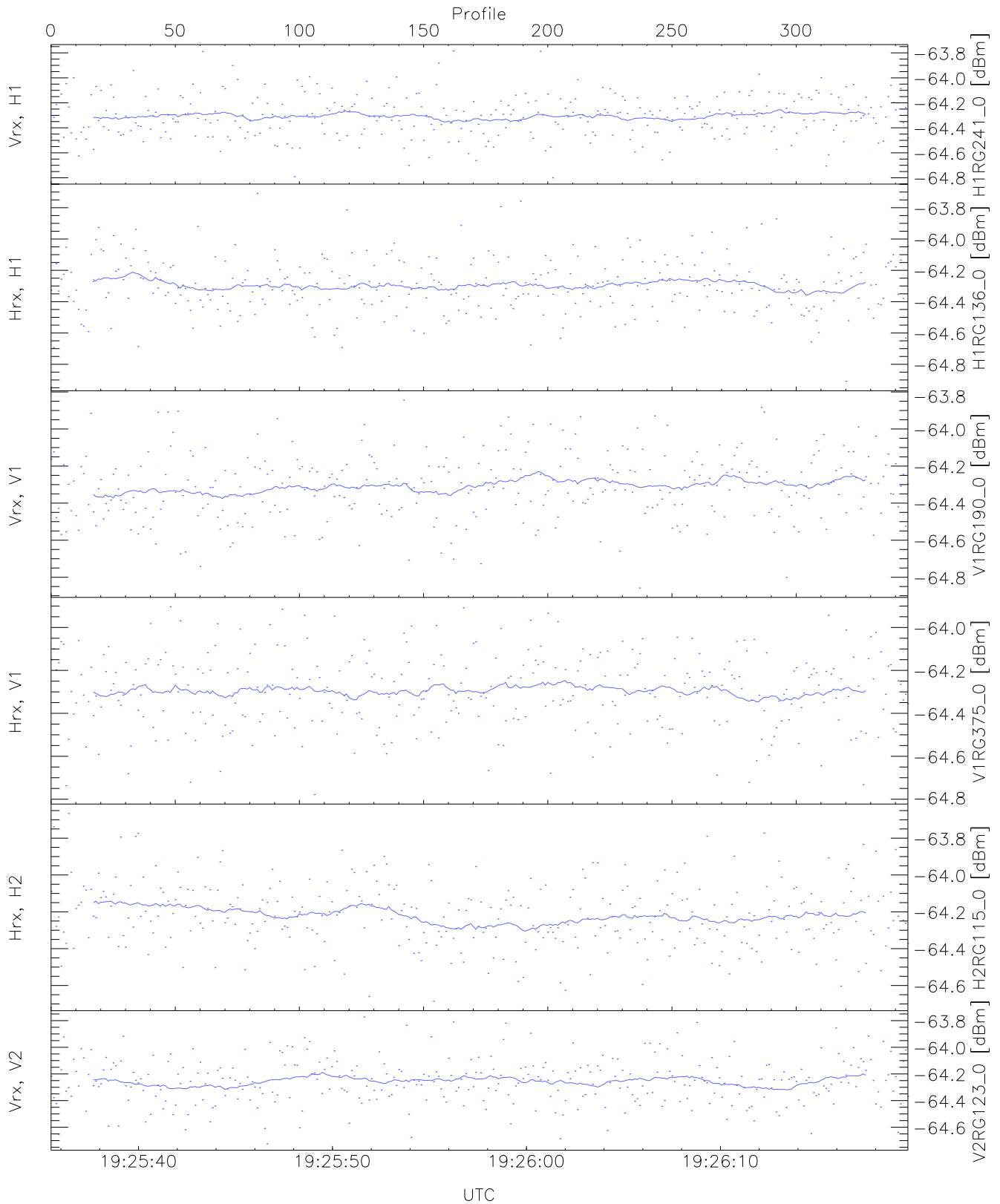
WCR3 FF4 Receivers Noise Power from the Hot Loads Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Vrx, H1 (HL [dBm]) | -64.40 | -63.40 | -63.88 | -63.89 | -77.73 |
| Hrx, H1 (HL [dBm]) | -64.28 | -63.35 | -63.78 | -63.78 | -77.77 |
| Vrx, V1 (HL [dBm]) | -64.34 | -63.43 | -63.87 | -63.87 | -77.82 |
| Hrx, V1 (HL [dBm]) | -64.32 | -63.29 | -63.80 | -63.80 | -77.66 |
| Hrx, H2 (HL [dBm]) | -64.24 | -63.35 | -63.82 | -63.82 | -78.09 |
| Vrx, V2 (HL [dBm]) | -64.36 | -63.36 | -63.86 | -63.85 | -77.88 |



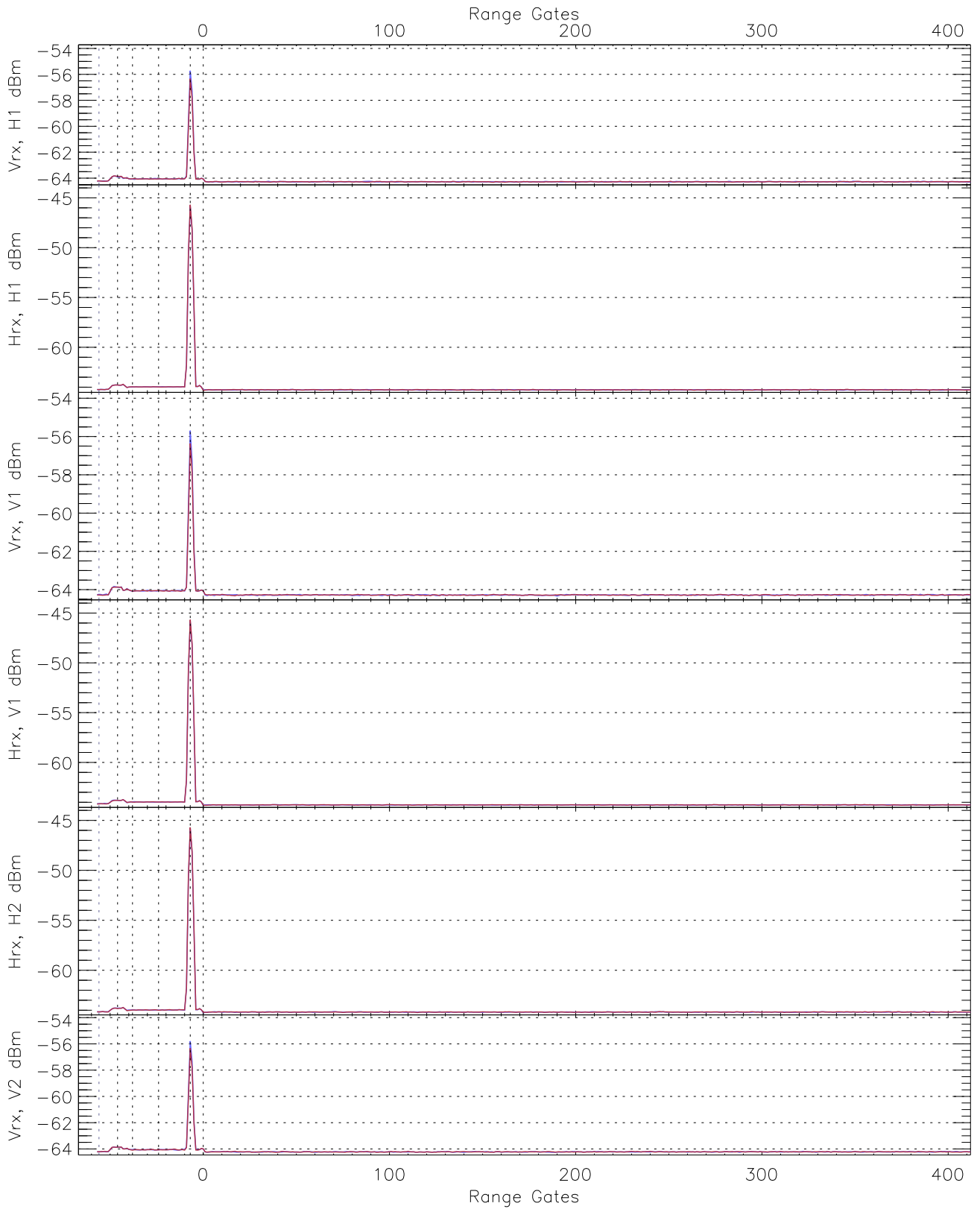
WCR3 FF4 Receivers Noise Power from the Sky/RM Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Vrx, H1 (RM [dBm]) | -64.67 | -63.79 | -64.21 | -64.22 | -78.22 |
| Hrx, H1 (RM [dBm]) | -64.66 | -63.80 | -64.24 | -64.24 | -78.19 |
| Vrx, V1 (RM [dBm]) | -64.77 | -63.61 | -64.26 | -64.27 | -78.45 |
| Hrx, V1 (RM [dBm]) | -64.57 | -63.67 | -64.15 | -64.16 | -78.08 |
| Hrx, H2 (RM [dBm]) | -64.58 | -63.73 | -64.16 | -64.17 | -78.48 |
| Vrx, V2 (RM [dBm]) | -64.72 | -63.85 | -64.22 | -64.22 | -78.40 |



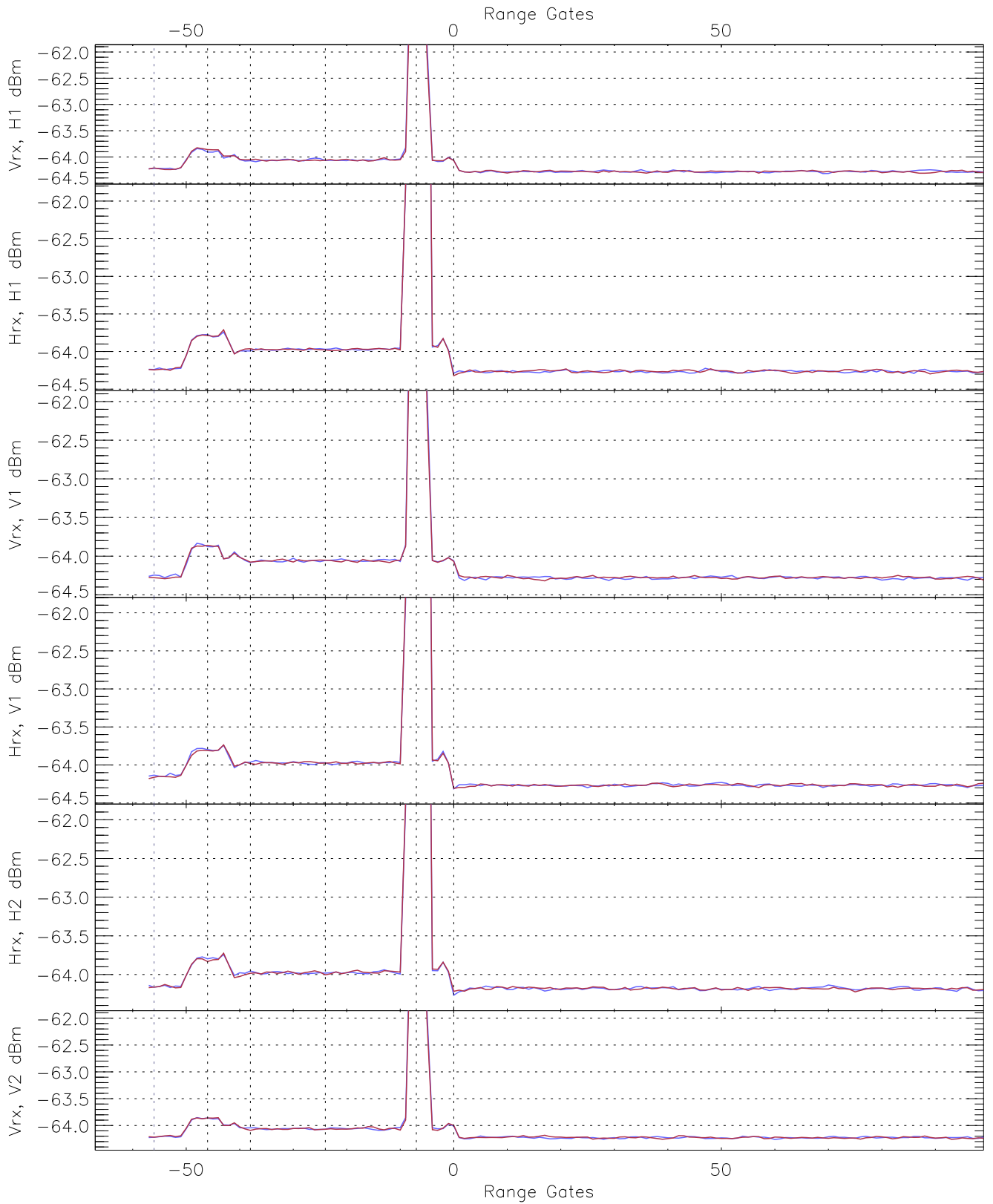
WCR3 FF4 "Best" estimate Receivers Noise Power

|                 | Min    | Max    | Mean   | Median | StDev  |
|-----------------|--------|--------|--------|--------|--------|
| H1RG241_0 [dBm] | -64.80 | -63.78 | -64.30 | -64.30 | -78.49 |
| H1RG136_0 [dBm] | -64.91 | -63.71 | -64.29 | -64.30 | -78.27 |
| V1RG190_0 [dBm] | -64.86 | -63.84 | -64.31 | -64.31 | -78.18 |
| V1RG375_0 [dBm] | -64.78 | -63.90 | -64.29 | -64.30 | -78.34 |
| H2RG115_0 [dBm] | -64.69 | -63.67 | -64.21 | -64.22 | -78.14 |
| V2RG123_0 [dBm] | -64.72 | -63.77 | -64.25 | -64.25 | -78.34 |

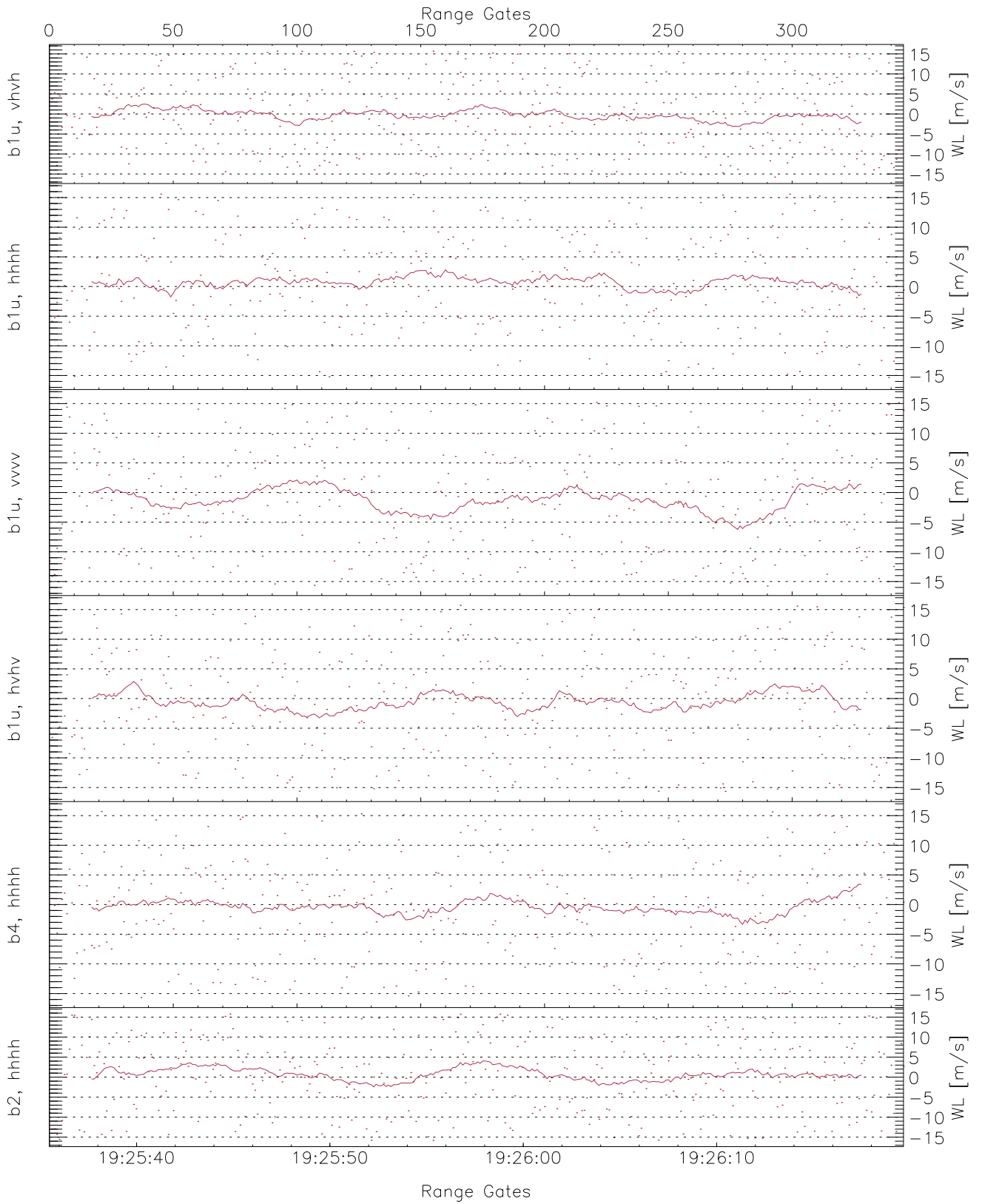


WCR3 FF4 Averaged Received power for all recorded gates  
blue: 192535-192558, 174 profiles averaged  
red: 192558-192620, 173 profiles averaged

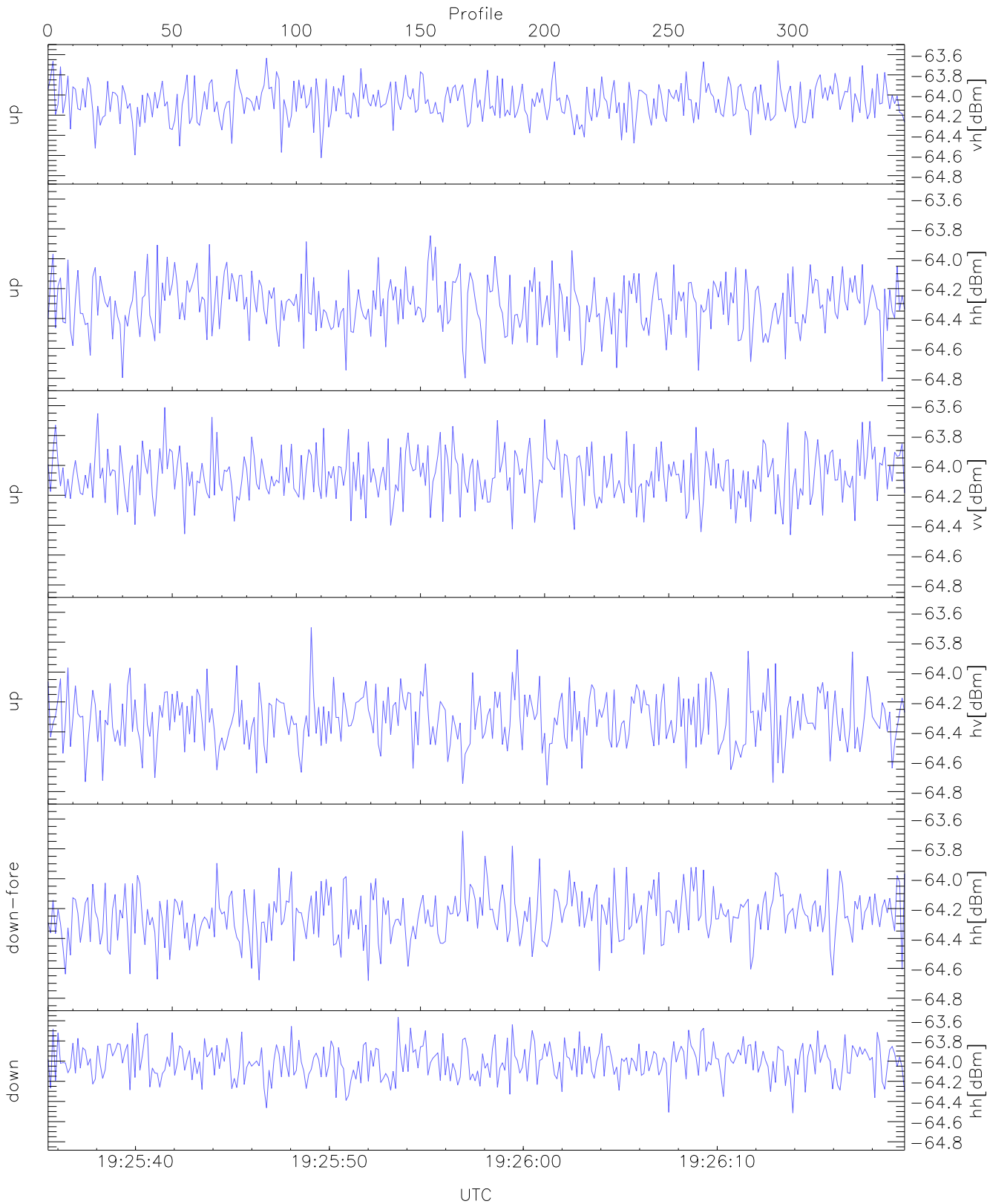




WCR3 FF4 Averaged Received power for the negative gates and up to 100 gate  
blue: 192535-192558, 174 profiles averaged  
red: 192558-192620, 173 profiles averaged

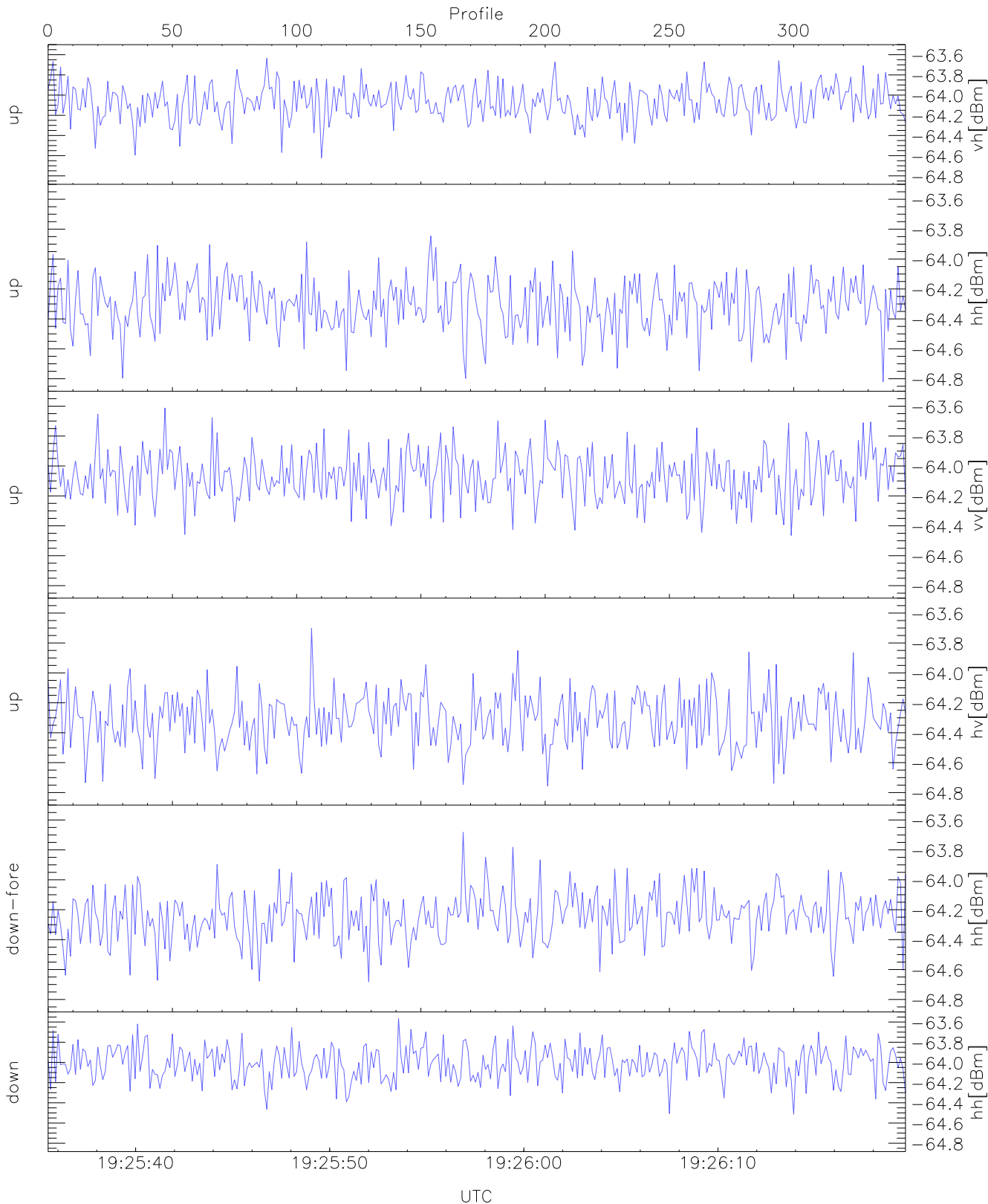


WCR3 FF4 Receivers Phase Noise (in m/s) from the Warm Loads Measurements



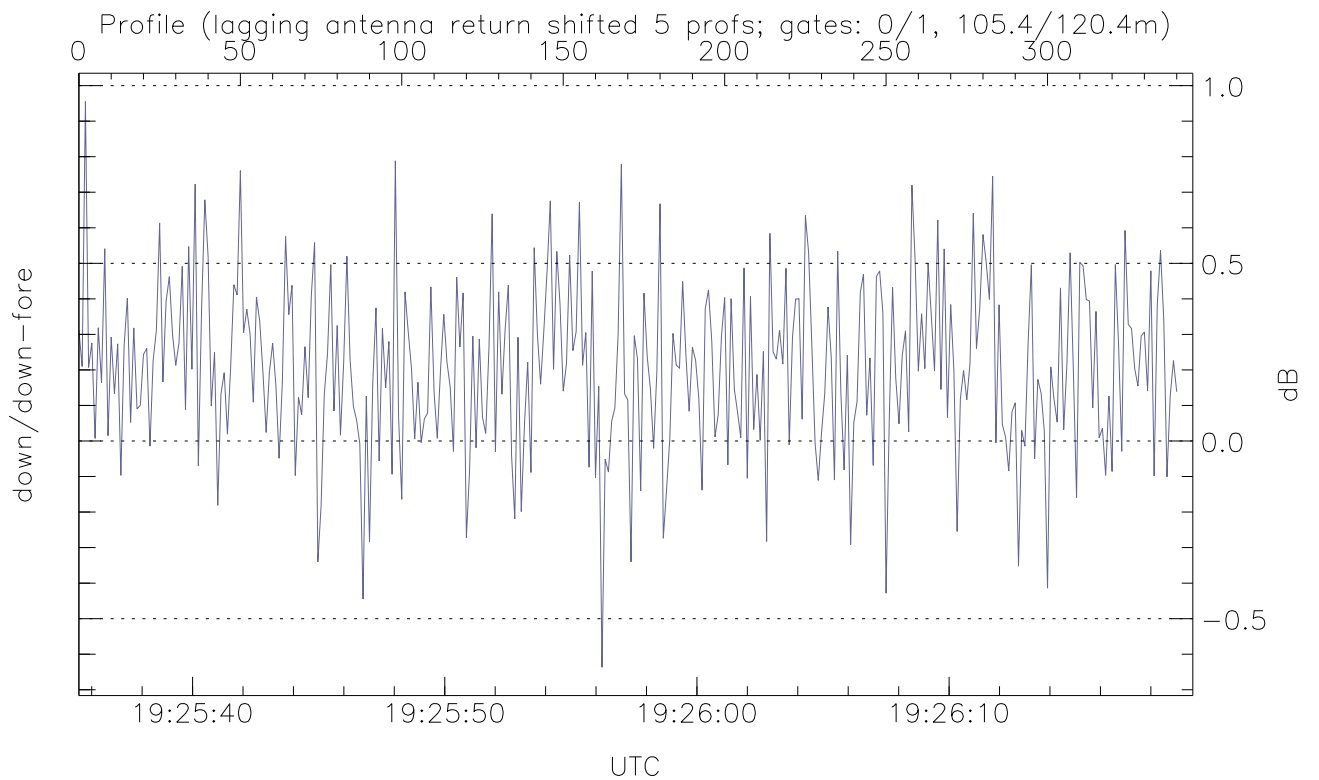
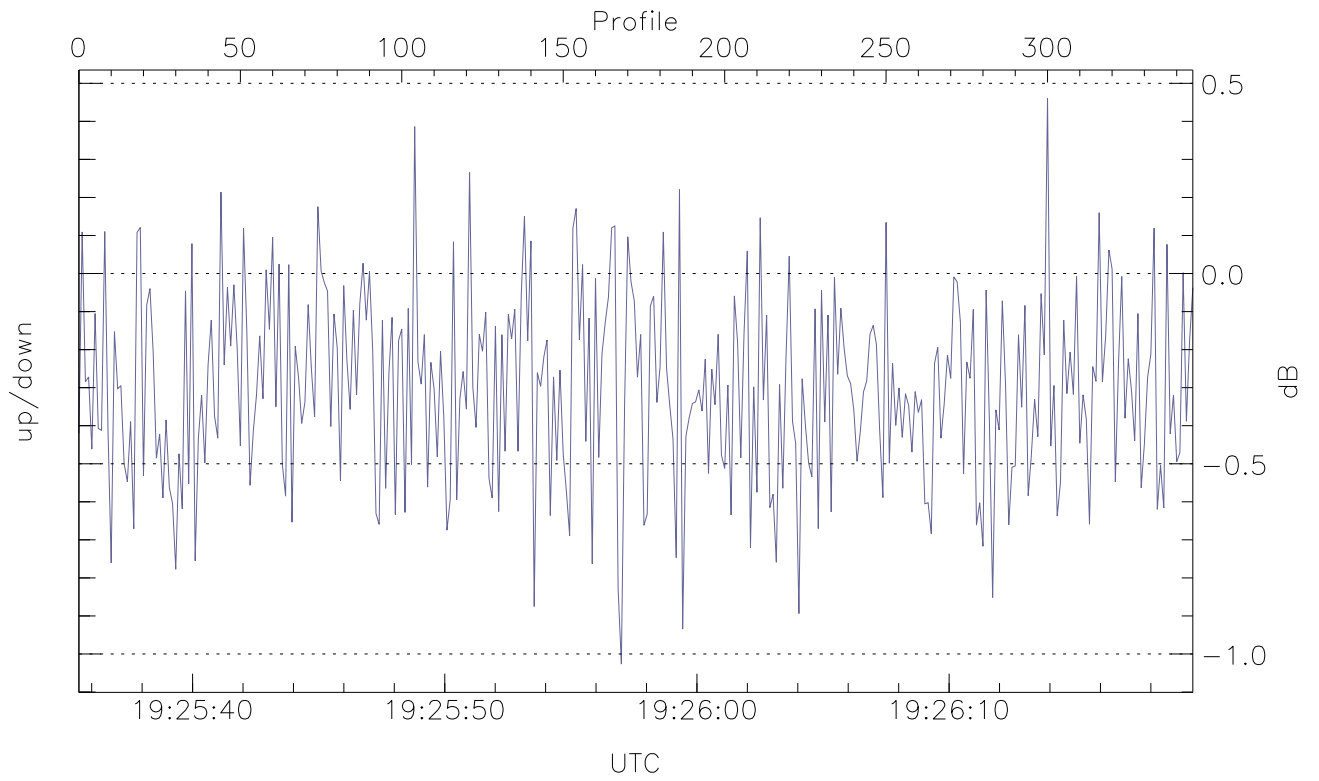
WCR3 FF4 Received Power Products for Range gate 0 (105.4 m)

|                    | Min    | Max    | Mean   |
|--------------------|--------|--------|--------|
| up(vh[dBm])        | -64.62 | -63.63 | -64.07 |
| up(hh[dBm])        | -64.82 | -63.85 | -64.30 |
| up(vv[dBm])        | -64.46 | -63.61 | -64.06 |
| up(hv[dBm])        | -64.76 | -63.70 | -64.31 |
| down-fore(hh[dBm]) | -64.68 | -63.68 | -64.24 |
| down(hh[dBm])      | -64.51 | -63.56 | -64.00 |



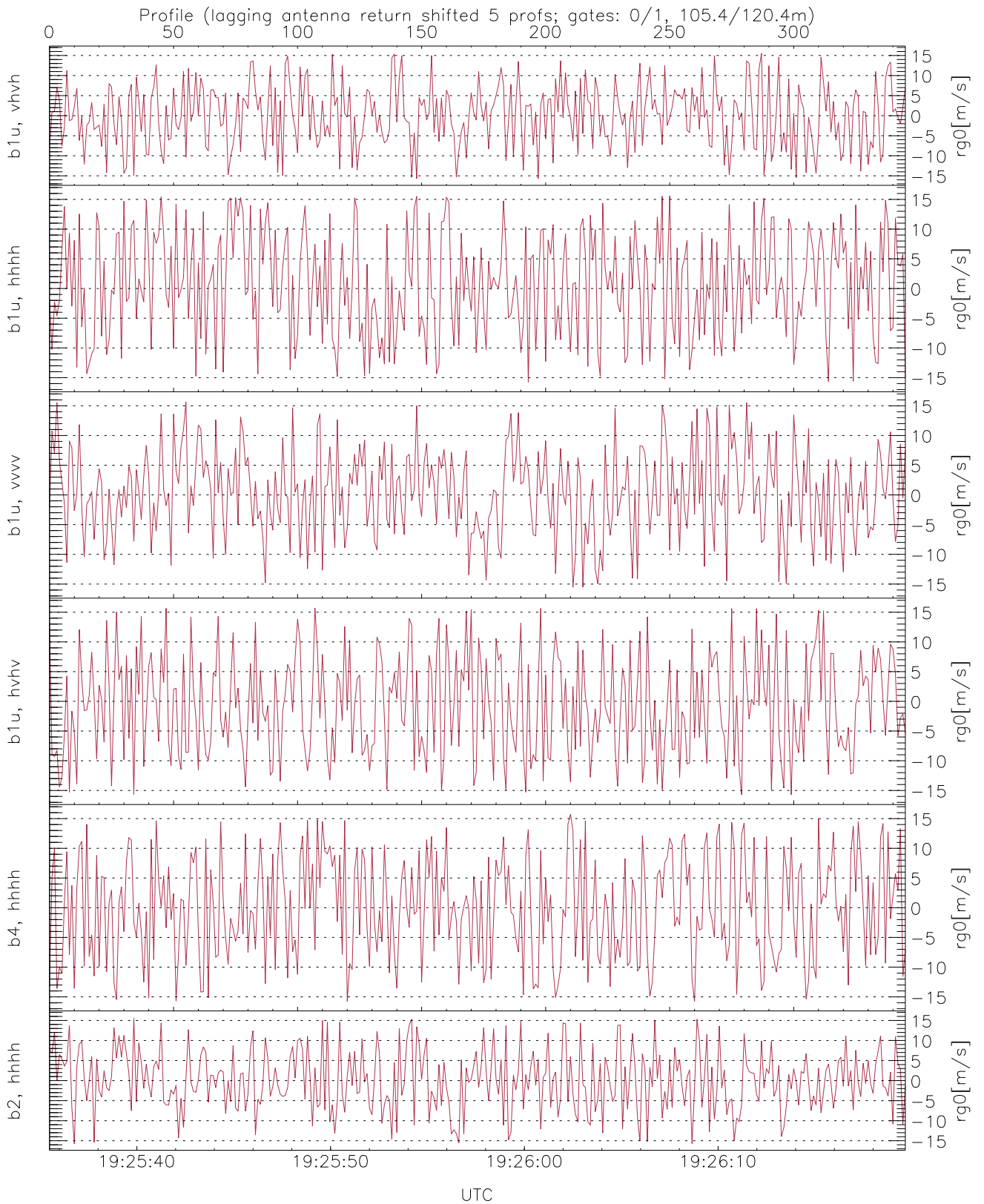
WCR3 FF4 Power Products(psdmom0) for Range gate 0 (105.4 m)

|                    | Min    | Max    | Mean   |
|--------------------|--------|--------|--------|
| up(vh[dBm])        | -64.62 | -63.63 | -64.07 |
| up(hh[dBm])        | -64.82 | -63.85 | -64.30 |
| up(vv[dBm])        | -64.46 | -63.61 | -64.06 |
| up(hv[dBm])        | -64.76 | -63.70 | -64.31 |
| down-fore(hh[dBm]) | -64.68 | -63.68 | -64.24 |
| down(hh[dBm])      | -64.51 | -63.56 | -64.00 |



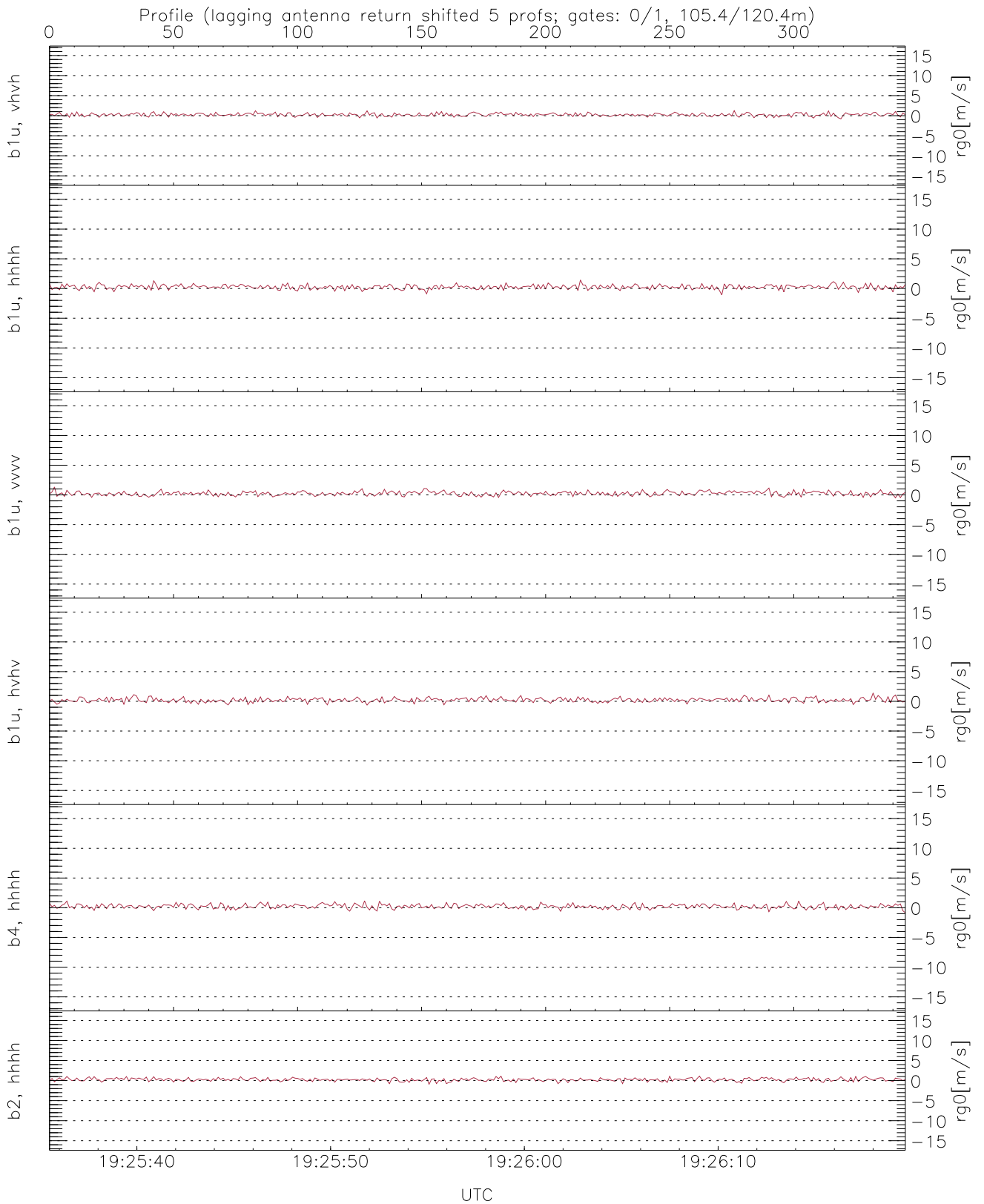
WCR3 Beam pairs Received Power Ratio(s); RangeGate: 0 (105 m)

|                     | Min   | Max  | Mean  |
|---------------------|-------|------|-------|
| up/down (dB)        | -1.03 | 0.46 | -0.30 |
| down/down-fore (dB) | -0.64 | 0.96 | 0.21  |



WCR3 FF4 Doppler Velocity Products at 105.4 m range

|                     | Min    | Max   | Mean  | StDev |
|---------------------|--------|-------|-------|-------|
| b1u, vvhv(rg0[m/s]) | -15.72 | 15.52 | 0.09  | 7.73  |
| b1u, hhhh(rg0[m/s]) | -15.74 | 15.62 | 0.76  | 8.72  |
| b1u, vvvv(rg0[m/s]) | -15.56 | 15.63 | 0.41  | 7.27  |
| b1u, hvhv(rg0[m/s]) | -15.75 | 15.71 | -0.72 | 8.42  |
| b4, hhhh(rg0[m/s])  | -15.75 | 15.72 | -0.08 | 8.62  |
| b2, hhhh(rg0[m/s])  | -15.74 | 15.53 | 0.16  | 7.53  |



WCR3 FF4 Doppler Velocity Products (psdmom1) at 105.4 m range

|                     | Min   | Max  | Mean | StDev |
|---------------------|-------|------|------|-------|
| b1u, vvhv(rg0[m/s]) | -0.80 | 1.24 | 0.25 | 0.37  |
| b1u, hhhh(rg0[m/s]) | -1.07 | 1.43 | 0.26 | 0.36  |
| b1u, vvvv(rg0[m/s]) | -0.50 | 1.34 | 0.25 | 0.33  |
| b1u, hvhv(rg0[m/s]) | -0.63 | 1.41 | 0.23 | 0.35  |
| b4, hhhh(rg0[m/s])  | -0.85 | 1.17 | 0.22 | 0.36  |
| b2, hhhh(rg0[m/s])  | -0.92 | 1.12 | 0.24 | 0.37  |