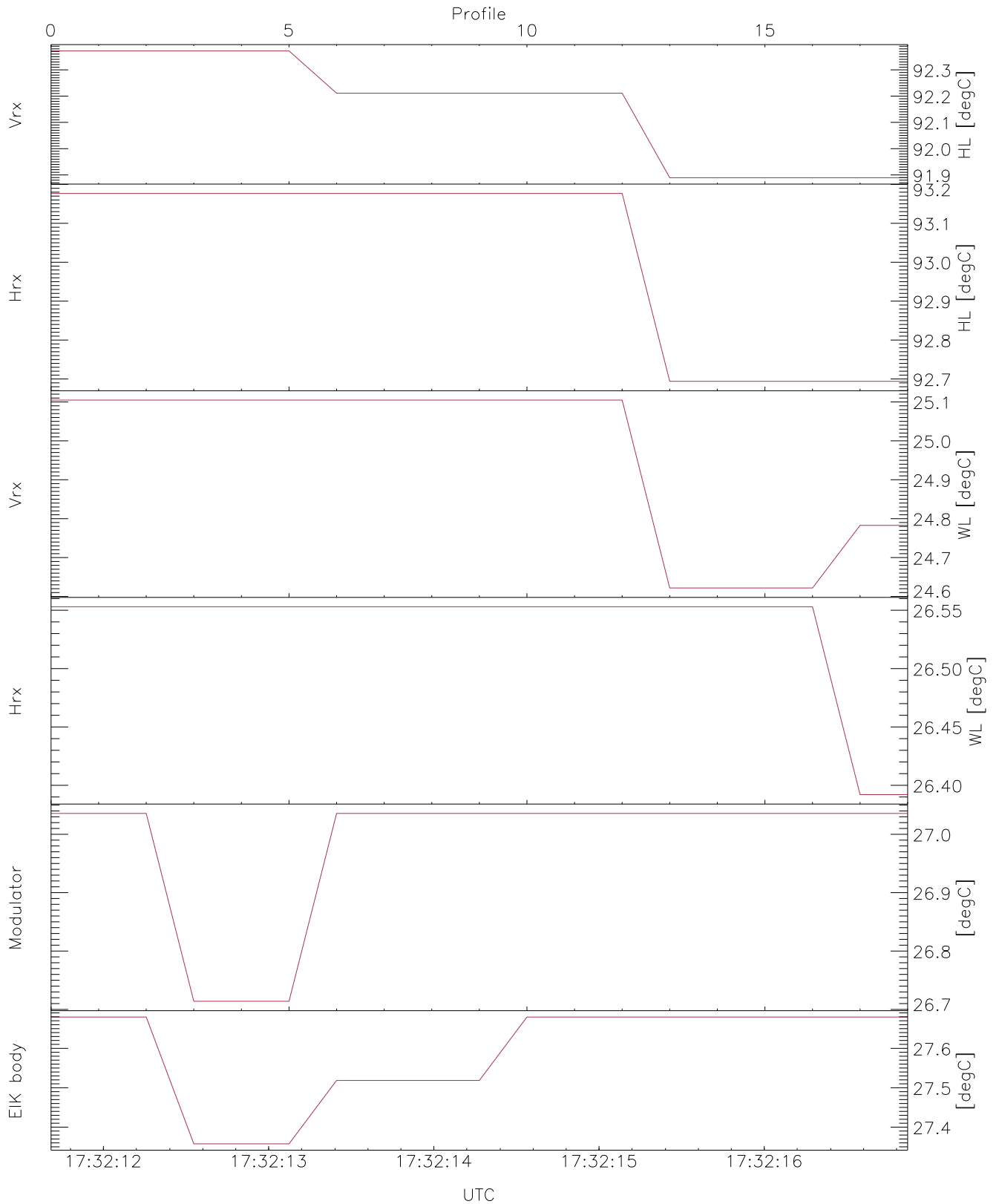


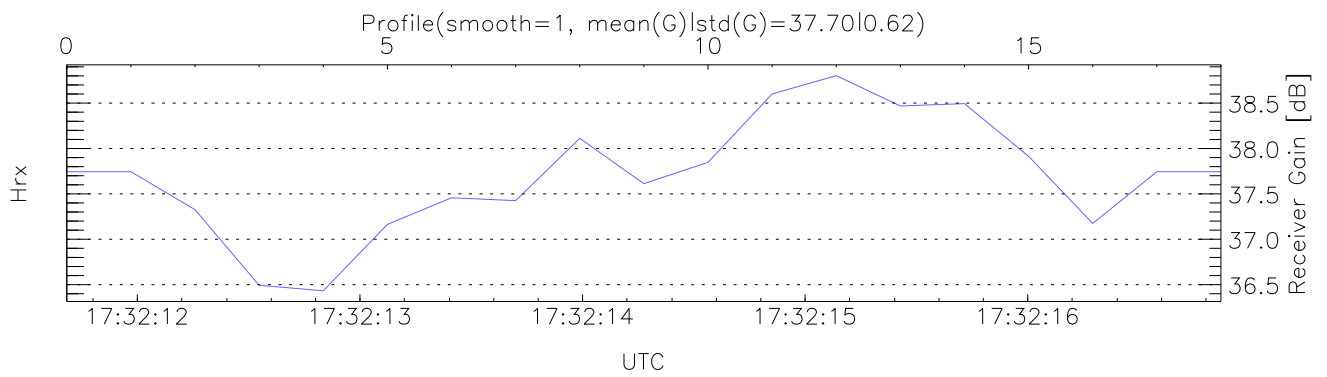
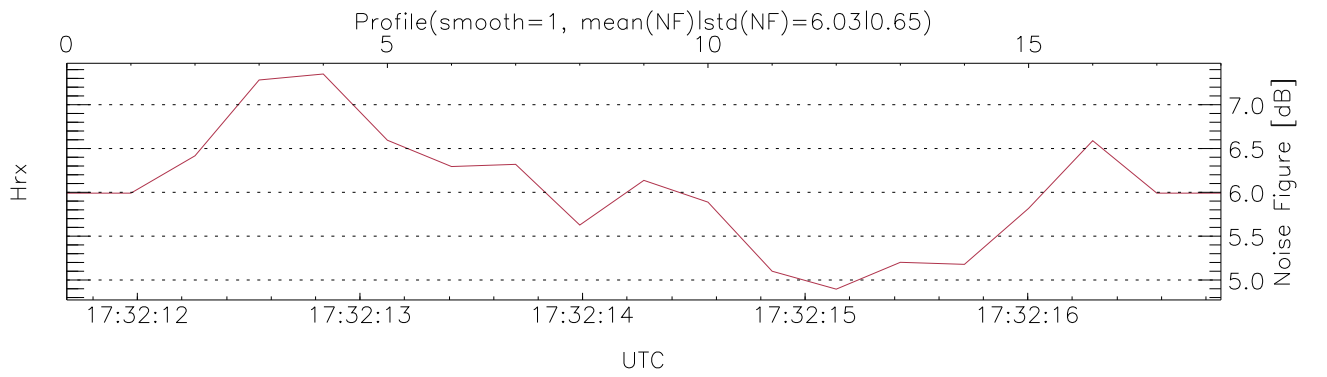
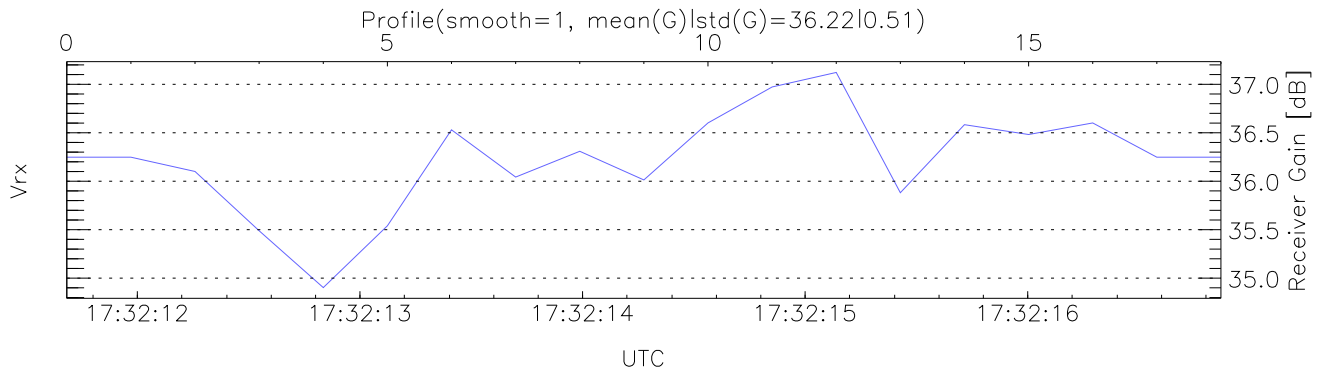
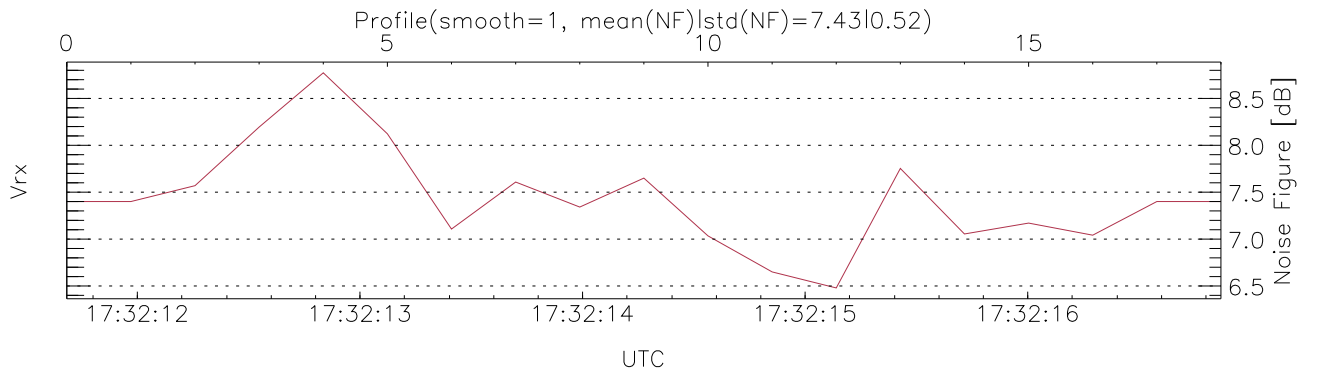
WCR3 FF3 Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

UTC: 17:32:12-17:32:17, TimeCor: 0.00s, Dur: 5.19s  
 TimeFlg: 1, TFPstatus constant.  
 TimeInt/PPS(min,max,mn,std): 288.1,288.1,288.1,0.0 ms / 3.5,3.5,3.5  
 NumRec(r/t): 19/19, 0-18/17:32:12-17:32:17  
 AcqTime: 288.0ms, Rate: 0.585MB/s, Averages (req.,actual): 30,30  
 Pulse: 250ns, IFF: 4.0MHz, Tx: H1 H2 V2  
 PRF: 10.0 10.0 10.0 10.0 10.0 10.0 KHz, IGS: 100us  
 Range(min,max,rqs): 90, 5973, 30.0 m, Gates: 197, Aspect: 1.2  
 Mirror(-9|0|1|2,3,9x = no mirror|sidelup|error): 1  
 FFTlen: 32, FFTwin: rectangular, # averagedFFT: 30, cr-polFFT: YES  
 FFTres: 0.493,0.493,0.493,0.493,0.493,0.493 m/s, PulsePairCalc: NO



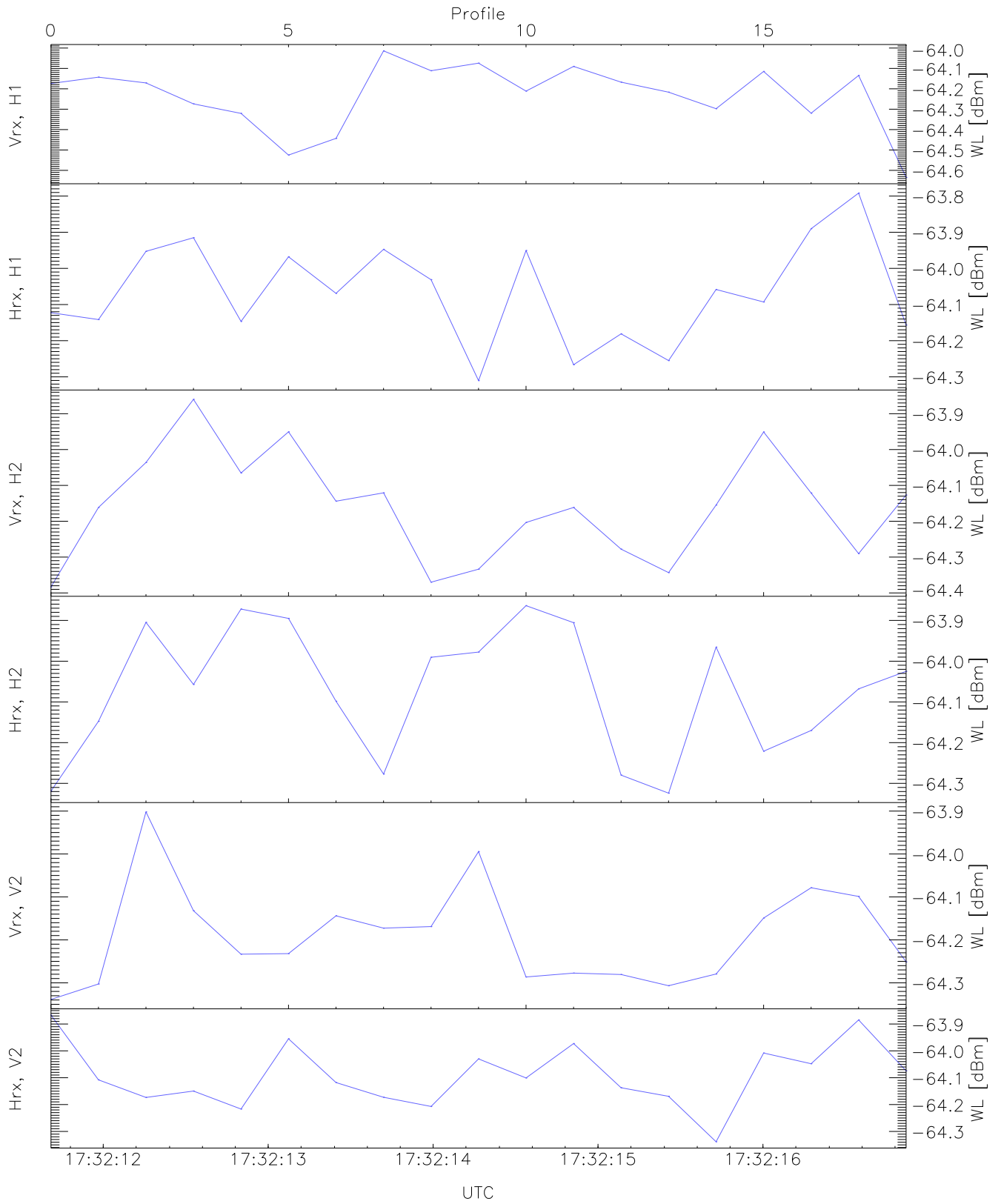
WCR3 FF3 Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,92,24,26,26,27  
 maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,93,25,26,27,27  
 LOalarm(20,240,2817,14861 MHz): None  
 EIK/Modulator Faults: None



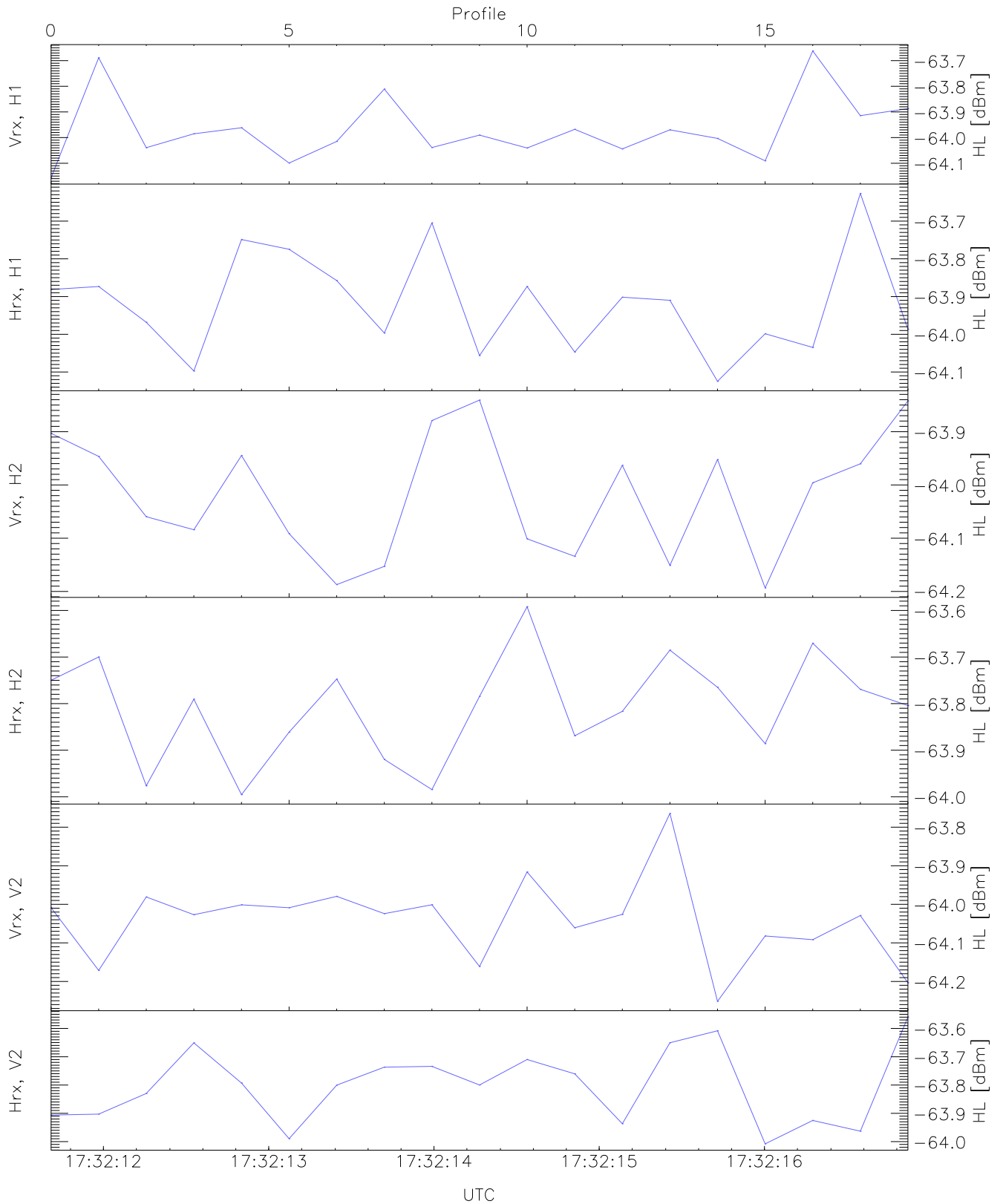
### WCR3 FF3 Receivers Gain and Noise Figure

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



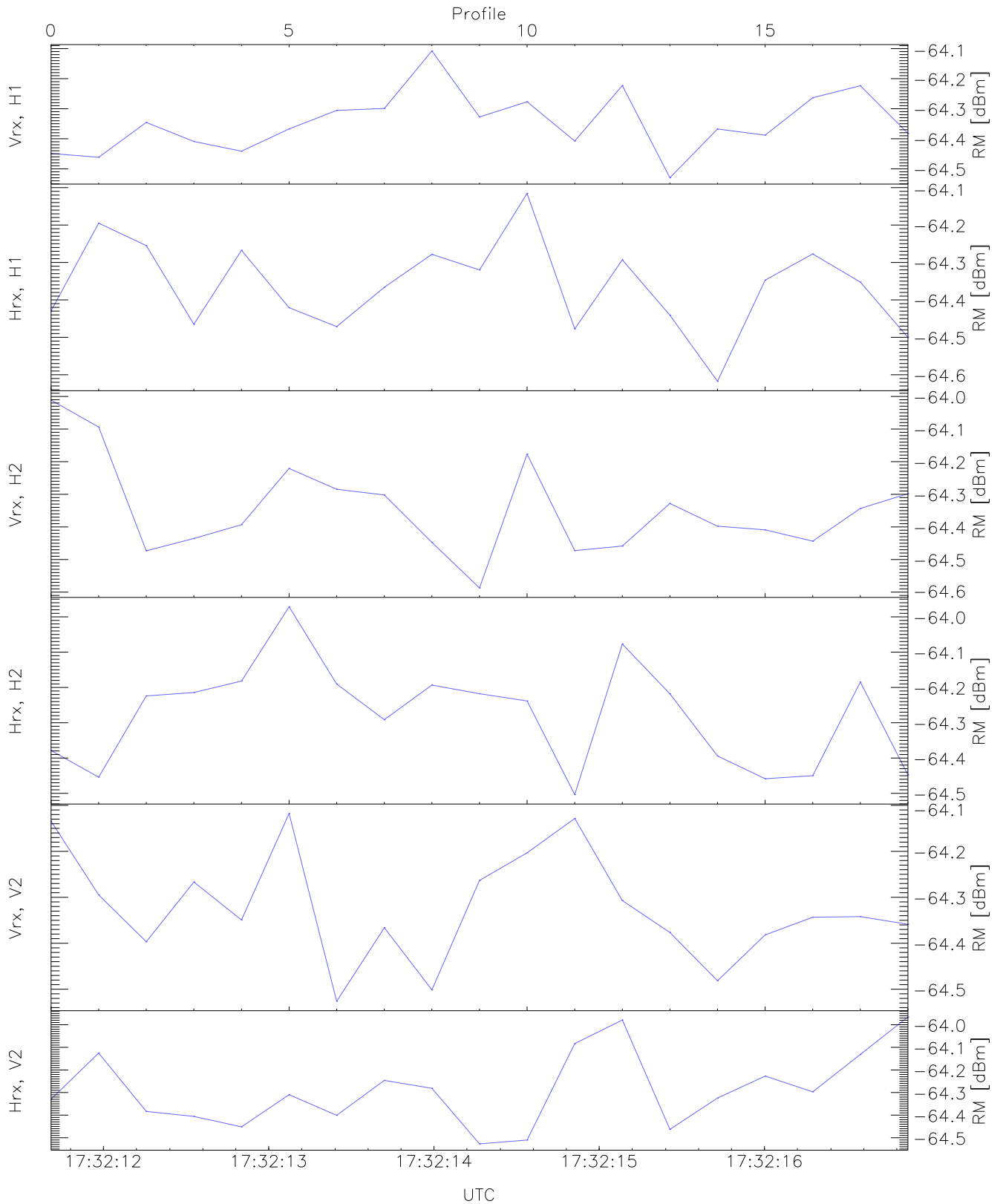
WCR3 FF3 Receivers Noise Power from the Warm Loads Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Vrx, H1 (WL [dBm]) | -64.63 | -64.01 | -64.23 | -64.17 | -78.75 |
| Hrx, H1 (WL [dBm]) | -64.31 | -63.79 | -64.06 | -64.07 | -79.09 |
| Vrx, H2 (WL [dBm]) | -64.38 | -63.86 | -64.16 | -64.15 | -78.92 |
| Hrx, H2 (WL [dBm]) | -64.32 | -63.86 | -64.07 | -64.06 | -78.61 |
| Vrx, V2 (WL [dBm]) | -64.34 | -63.90 | -64.19 | -64.23 | -80.02 |
| Hrx, V2 (WL [dBm]) | -64.34 | -63.87 | -64.09 | -64.11 | -79.82 |



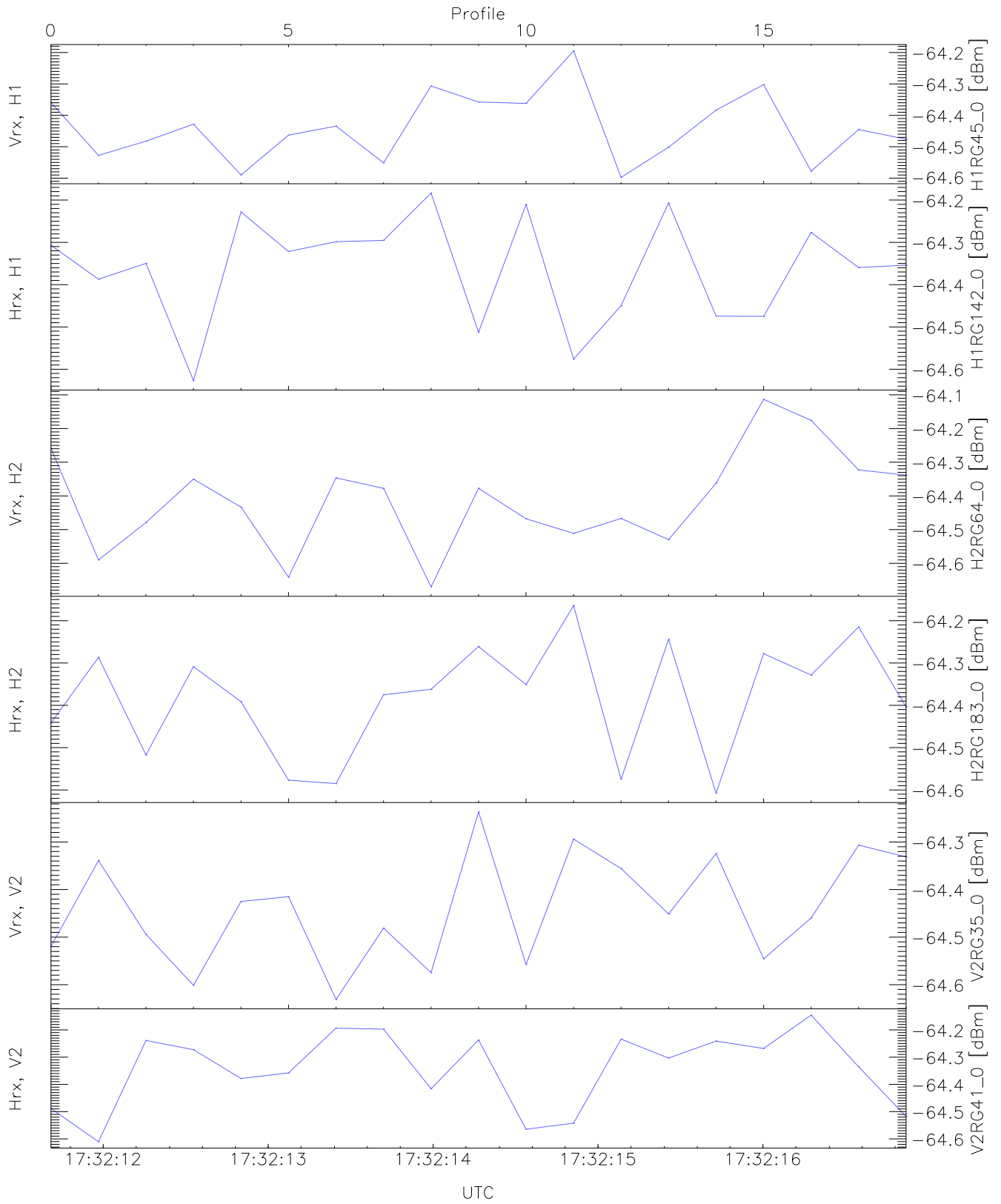
WCR3 FF3 Receivers Noise Power from the Hot Loads Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Vrx, H1 (HL [dBm]) | -64.16 | -63.66 | -63.96 | -63.99 | -79.29 |
| Hrx, H1 (HL [dBm]) | -64.12 | -63.63 | -63.92 | -63.91 | -79.04 |
| Vrx, H2 (HL [dBm]) | -64.19 | -63.84 | -64.02 | -64.00 | -79.86 |
| Hrx, H2 (HL [dBm]) | -64.00 | -63.59 | -63.81 | -63.79 | -79.84 |
| Vrx, V2 (HL [dBm]) | -64.25 | -63.76 | -64.04 | -64.03 | -80.16 |
| Hrx, V2 (HL [dBm]) | -64.01 | -63.56 | -63.80 | -63.80 | -79.04 |



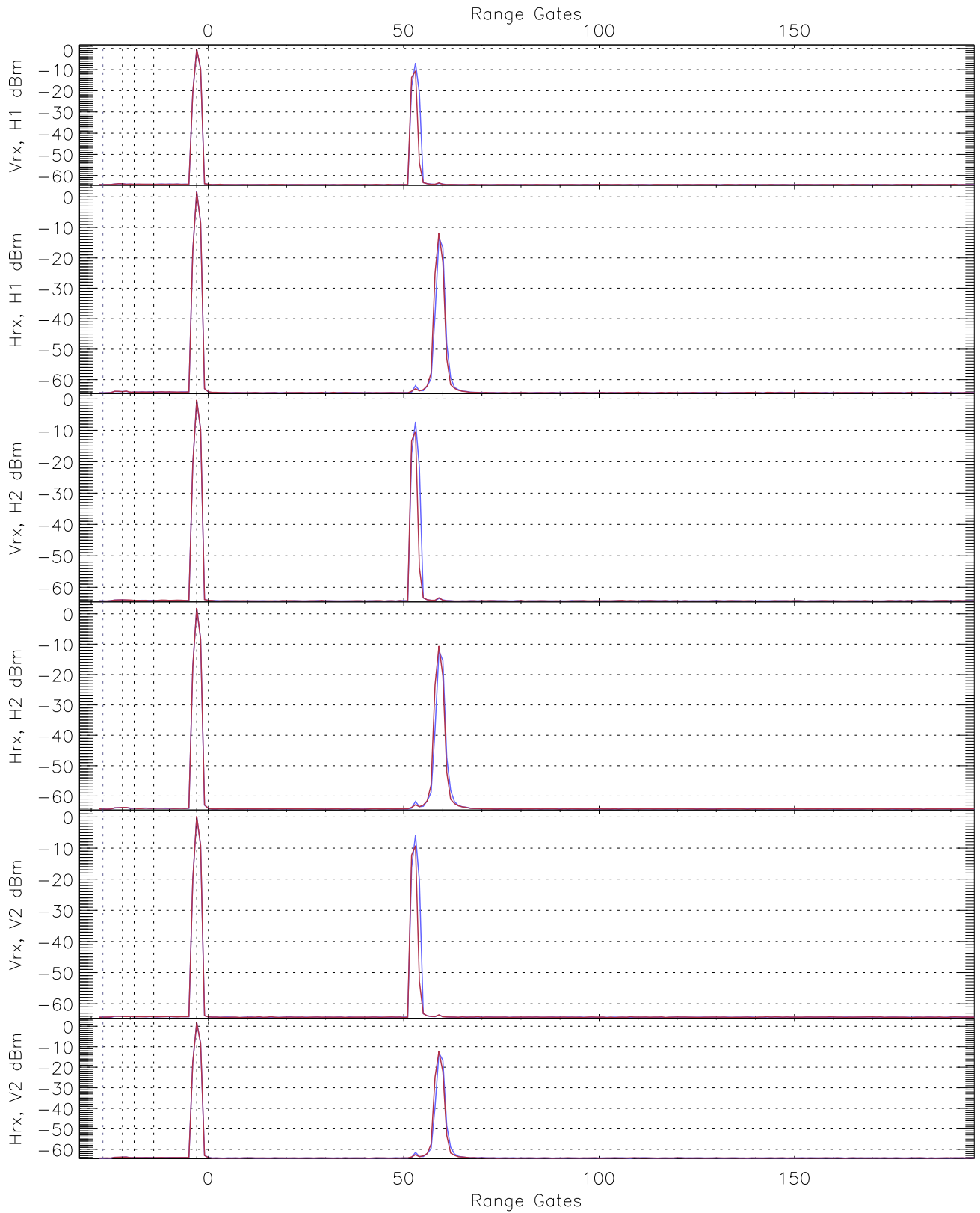
WCR3 FF3 Receivers Noise Power from the Sky/RM Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Vrx, H1 (RM [dBm]) | -64.53 | -64.11 | -64.34 | -64.37 | -80.80 |
| Hrx, H1 (RM [dBm]) | -64.62 | -64.12 | -64.36 | -64.35 | -80.02 |
| Vrx, H2 (RM [dBm]) | -64.59 | -64.01 | -64.34 | -64.39 | -79.23 |
| Hrx, H2 (RM [dBm]) | -64.50 | -63.97 | -64.28 | -64.22 | -79.14 |
| Vrx, V2 (RM [dBm]) | -64.53 | -64.12 | -64.32 | -64.34 | -80.07 |
| Hrx, V2 (RM [dBm]) | -64.53 | -63.97 | -64.28 | -64.31 | -78.52 |



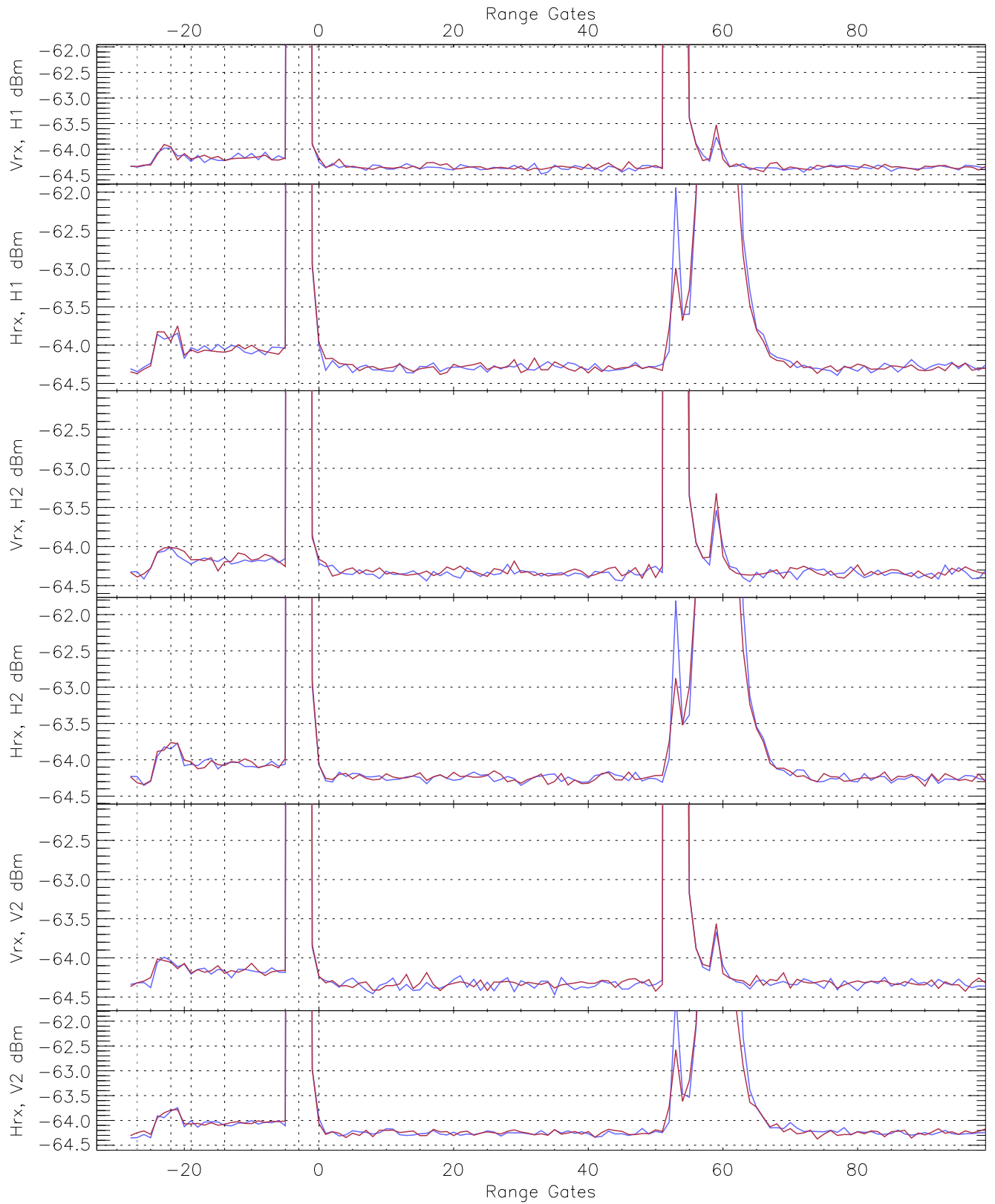
WCR3 FF3 "Best" estimate Receivers Noise Power

|                 | Min    | Max    | Mean   | Median | StDev  |
|-----------------|--------|--------|--------|--------|--------|
| H1RG45_0 [dBm]  | -64.60 | -64.19 | -64.44 | -64.45 | -80.54 |
| H1RG142_0 [dBm] | -64.63 | -64.18 | -64.36 | -64.35 | -79.85 |
| H2RG64_0 [dBm]  | -64.67 | -64.11 | -64.41 | -64.38 | -79.27 |
| H2RG183_0 [dBm] | -64.61 | -64.16 | -64.38 | -64.36 | -79.59 |
| V2RG35_0 [dBm]  | -64.63 | -64.24 | -64.44 | -64.45 | -80.30 |
| V2RG41_0 [dBm]  | -64.61 | -64.15 | -64.34 | -64.30 | -79.38 |

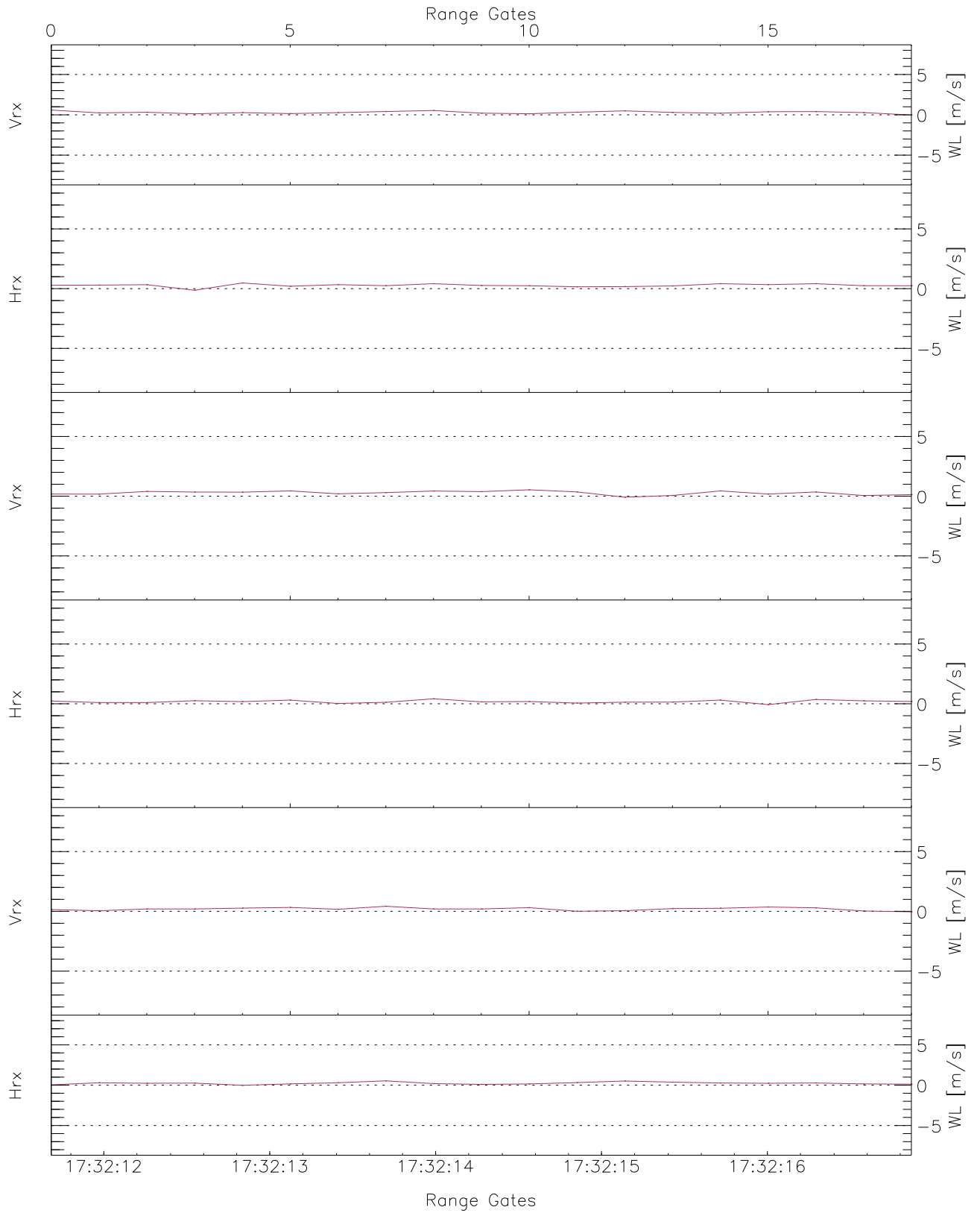


WCR3 FF3 Averaged Received power for all recorded gates  
blue: 173212-173214, 10 profiles averaged  
red: 173214-173217, 10 profiles averaged

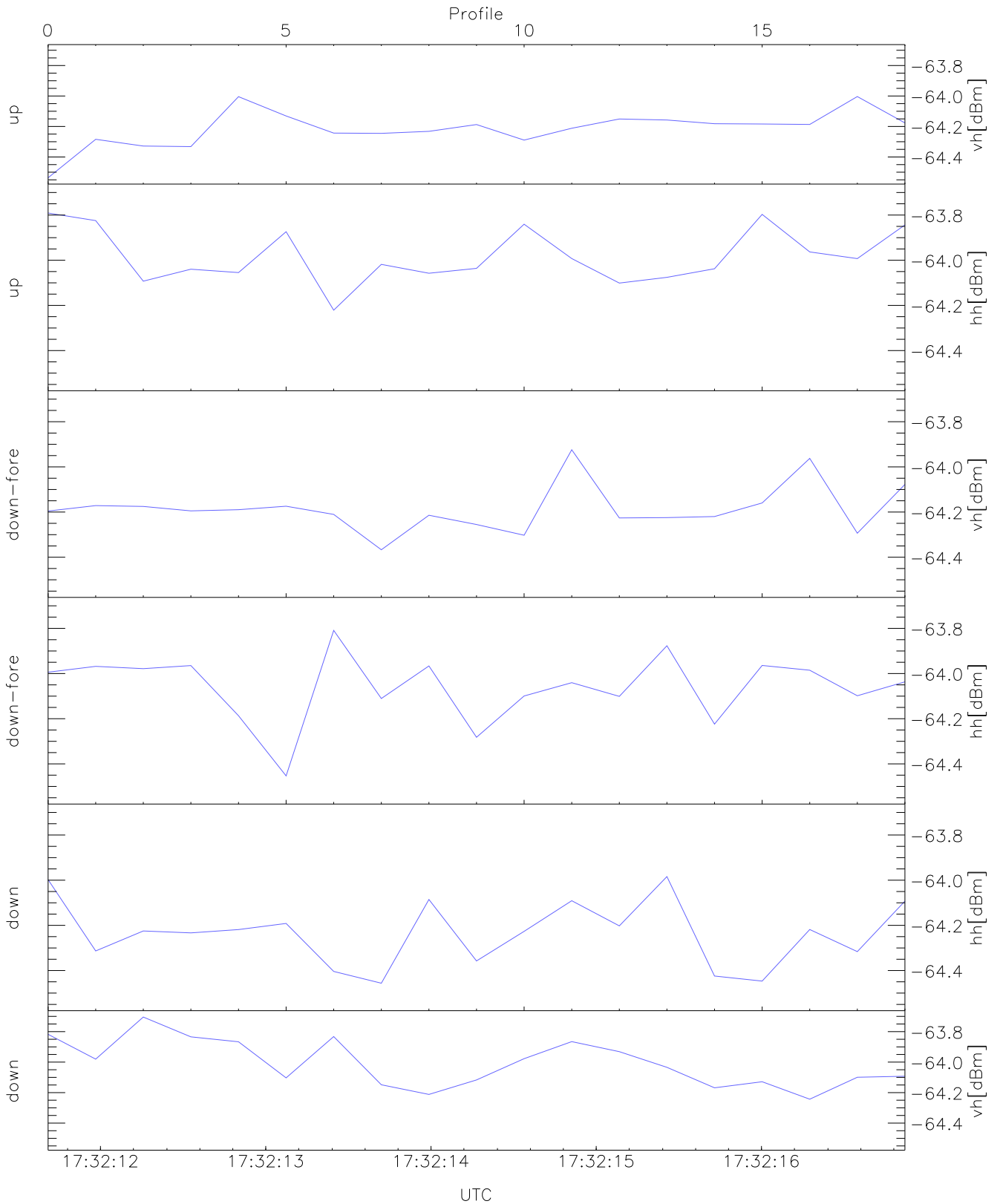




WCR3 FF3 Averaged Received power for the negative gates and up to 100 gate  
blue: 173212-173214, 10 profiles averaged  
red: 173214-173217, 10 profiles averaged

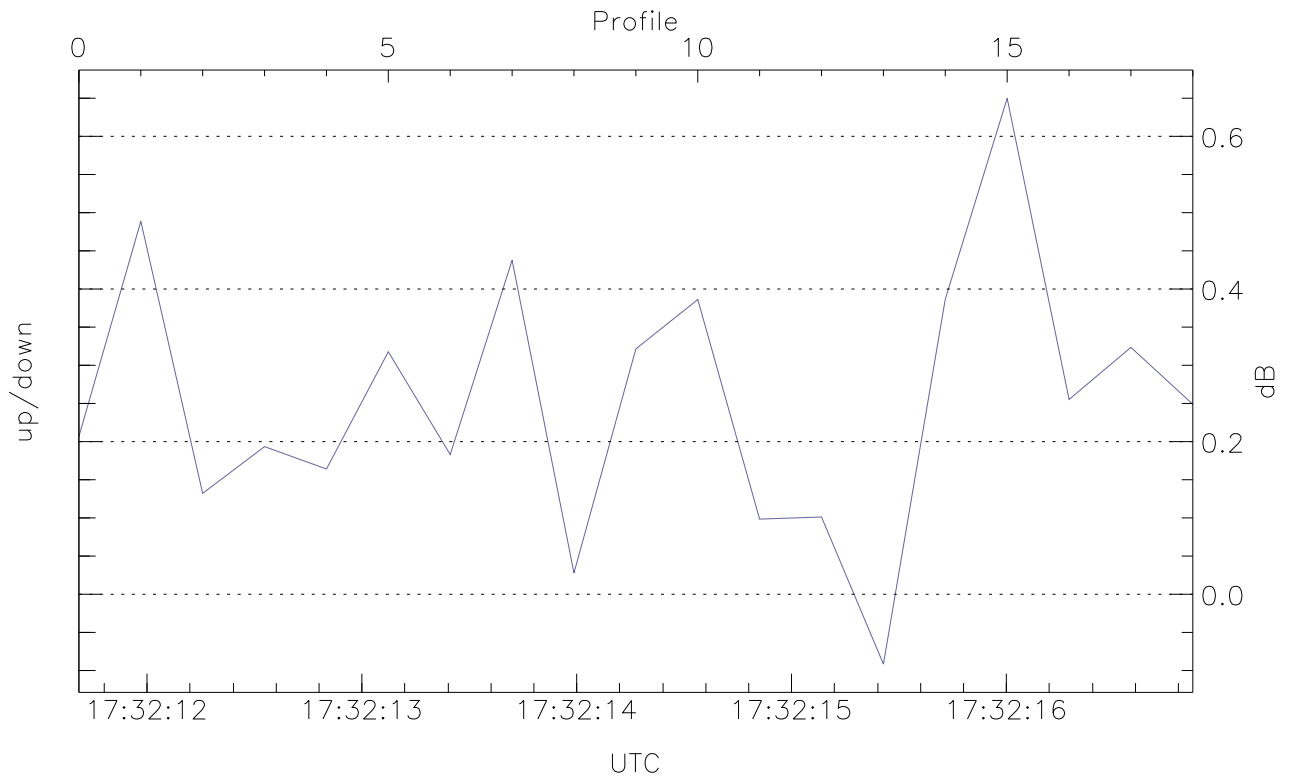


WCR3 FF3 Receivers Phase Noise (in m/s) from the Warm Loads Measurements



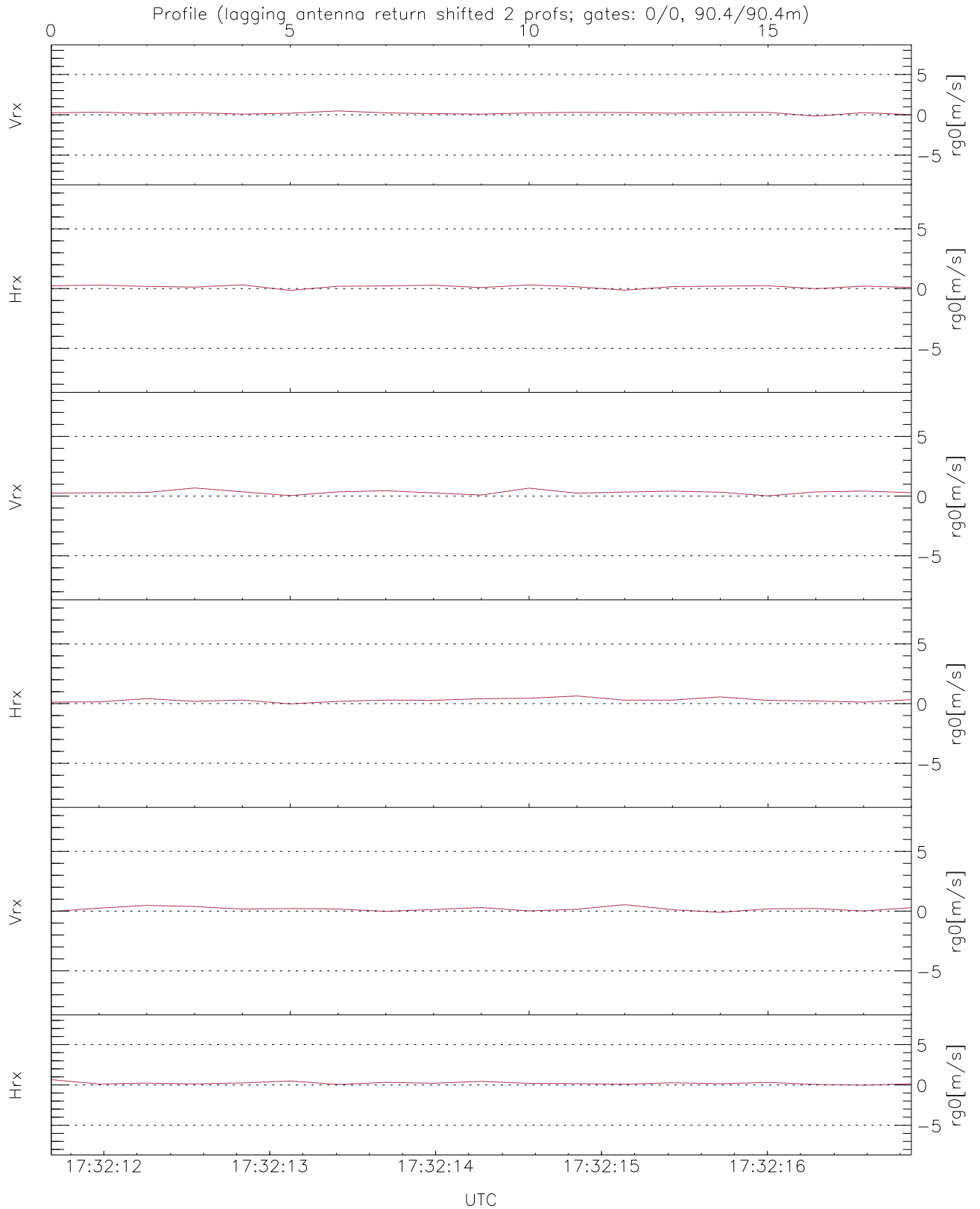
WCR3 FF3 Received Power Products for Range gate 0 (90.4 m)

|                    | Min    | Max    | Mean   |
|--------------------|--------|--------|--------|
| up(vh[dBm])        | -64.54 | -64.00 | -64.21 |
| up(hh[dBm])        | -64.22 | -63.79 | -63.98 |
| down-fore(vh[dBm]) | -64.37 | -63.92 | -64.18 |
| down-fore(hh[dBm]) | -64.45 | -63.81 | -64.06 |
| down(hh[dBm])      | -64.46 | -63.98 | -64.23 |
| down(vh[dBm])      | -64.24 | -63.70 | -64.01 |



WCR3 Beam pairs Received Power Ratio(s); RangeGate: 0 (90 m)

|                     | Min   | Max  | Mean  |
|---------------------|-------|------|-------|
| up/down (dB)        | -0.09 | 0.65 | 0.25  |
| down/down-fore (dB) | -0.44 | 0.22 | -0.17 |



WCR3 FF3 Doppler Velocity Products at 90.4 m range

|               | Min   | Max  | Mean | StDev |
|---------------|-------|------|------|-------|
| Vrx(rg0[m/s]) | -0.17 | 0.48 | 0.21 | 0.13  |
| Hrx(rg0[m/s]) | -0.15 | 0.31 | 0.16 | 0.13  |
| Vrx(rg0[m/s]) | 0.02  | 0.68 | 0.32 | 0.17  |
| Hrx(rg0[m/s]) | -0.02 | 0.64 | 0.29 | 0.15  |
| Vrx(rg0[m/s]) | -0.10 | 0.55 | 0.18 | 0.17  |
| Hrx(rg0[m/s]) | -0.03 | 0.66 | 0.22 | 0.16  |