

# PRELIMINARY REPORT OF 040529

ATTENTION: This report is automatically generated no comments are provided on data analysis

**last update on Sat May 29 12:43:14 GMT 2004**

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## 1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA\_WVS\_1P), global monitoring products (ASA\_GM1\_1P), which are the available few hours after the acquisition, on the browse (BP) products and on the Module Stepping (MS) product.

## 2 - Summary

### 2.1 - Instrument Unavailability

No unavailabilities during the reported period.

### 2.2 - Browse Visual Inspection

## 2.3 - Data Analysis

- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

## 3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis. The purpose of this mode is to identify any malfunctioning modules and to identify modules for which calibration offsets are to be applied. No anomalies observed on available MS products:

Polarisation	Start Time
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**MSM in V/V polarisation**

**MSM in H/H polarisation**

## 4 - Internal calibration Results

No anomalies observed.

### 4.1 - Daily statistics

#### 4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS
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#### 4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1

## 4.2 - Cyclic statistics

### 4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS

#### P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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#### P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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#### P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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### 4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

#### P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
-----	-------	-----------	------------	-----------------

#### P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
-----	-------	-----------	------------	-----------------

### P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
-----	-------	-----------	------------	-----------------

### 4.3 - cal pulses monitoring (all rows)

#### 4.3.1 - Evolution for WVS



#### 4.3.2 - Evolution for GM1



## 5 - RAW data statistics

No anomalies observed.

### 5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000461674
	stdev	2.27485e-07
MEAN Q	mean	0.000517969
	stdev	2.45712e-07



### 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.126535
	stdev	0.000998786
STDEV Q	mean	0.126752
	stdev	0.00100900



### 5.3 - Gain imbalance I/Q





## 6 - Doppler Analysis

Preliminary report. The data is not yet controlled



### 6.1 - Unbiased Doppler Error for WVS

#### Evolution of unbiased Doppler error (Real - Expected)


Acsending

Descending

### 6.2 - Absolute Doppler for WVS

#### Evolution of Absolute Doppler


Acsending

Descending

### 6.3 - Doppler evolution versus ANX for WVS

#### Evolution Doppler error versus ANX


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### 6.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)

<input type="checkbox"/>
Ascending
<input type="checkbox"/>
Descending

### 6.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler

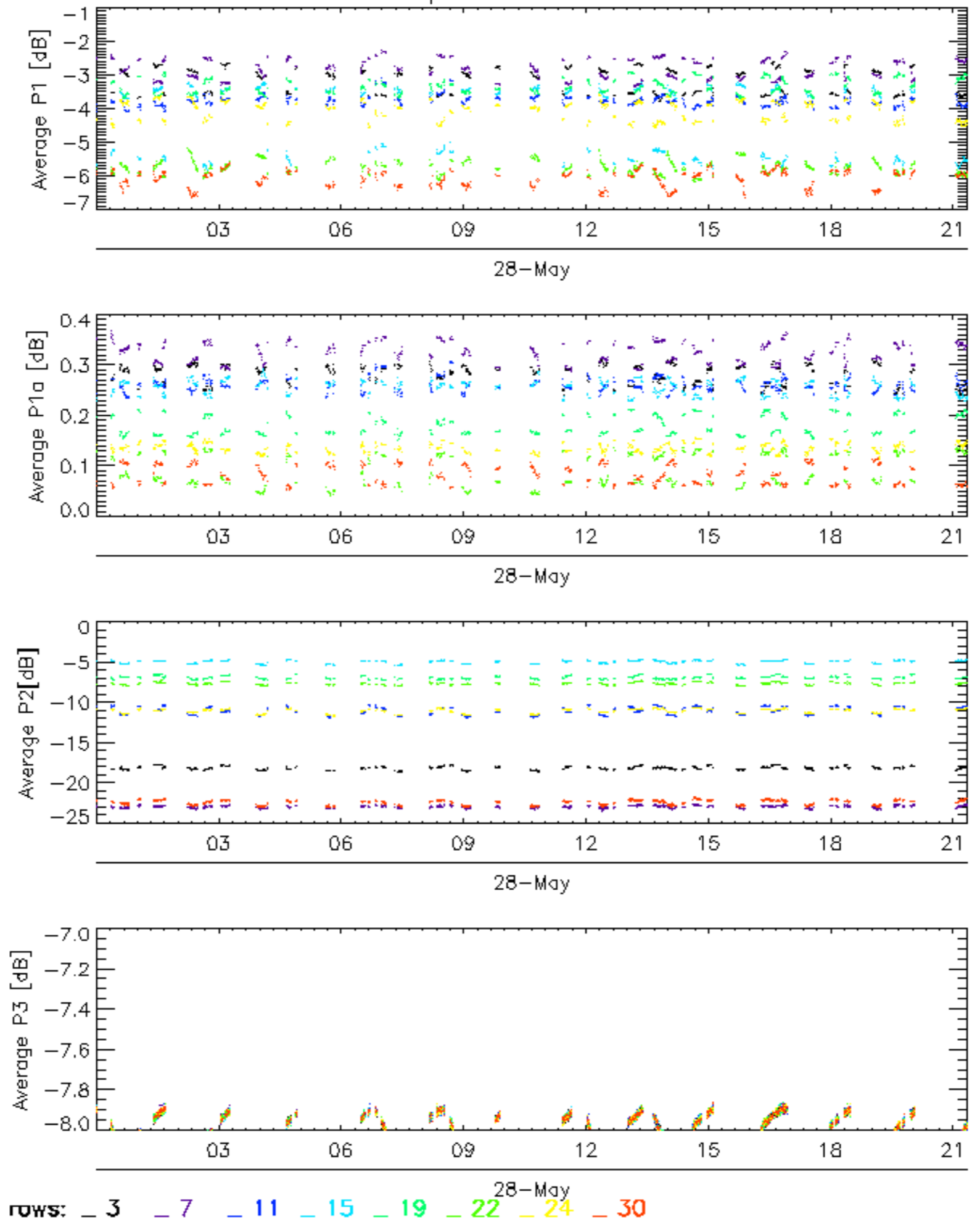
<input type="checkbox"/>
Ascending
<input type="checkbox"/>
Descending

### 6.6 - Doppler evolution versus ANX for GM1

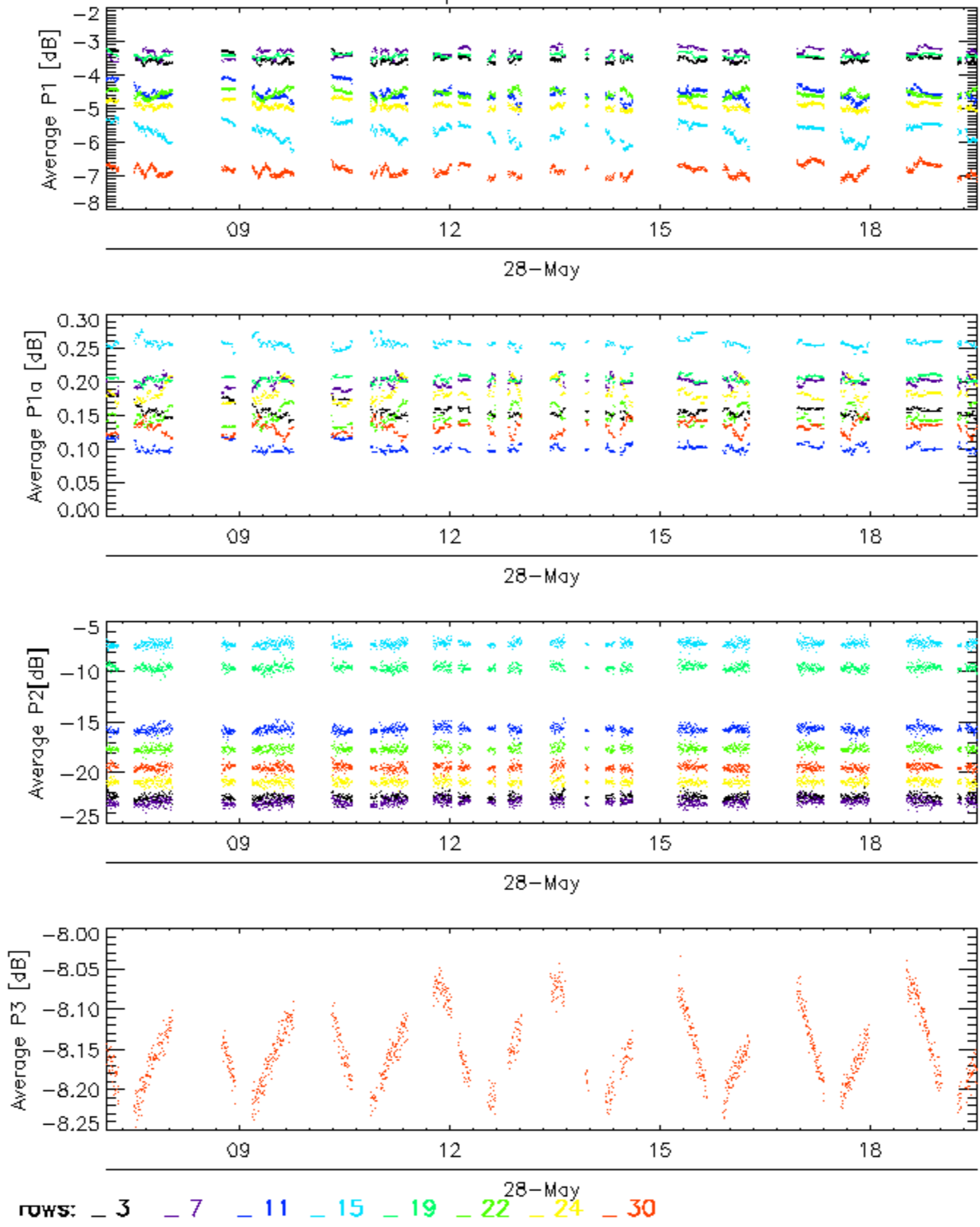
Evolution Doppler error versus ANX

<input type="checkbox"/>
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### Cal pulses for GM1 SS3

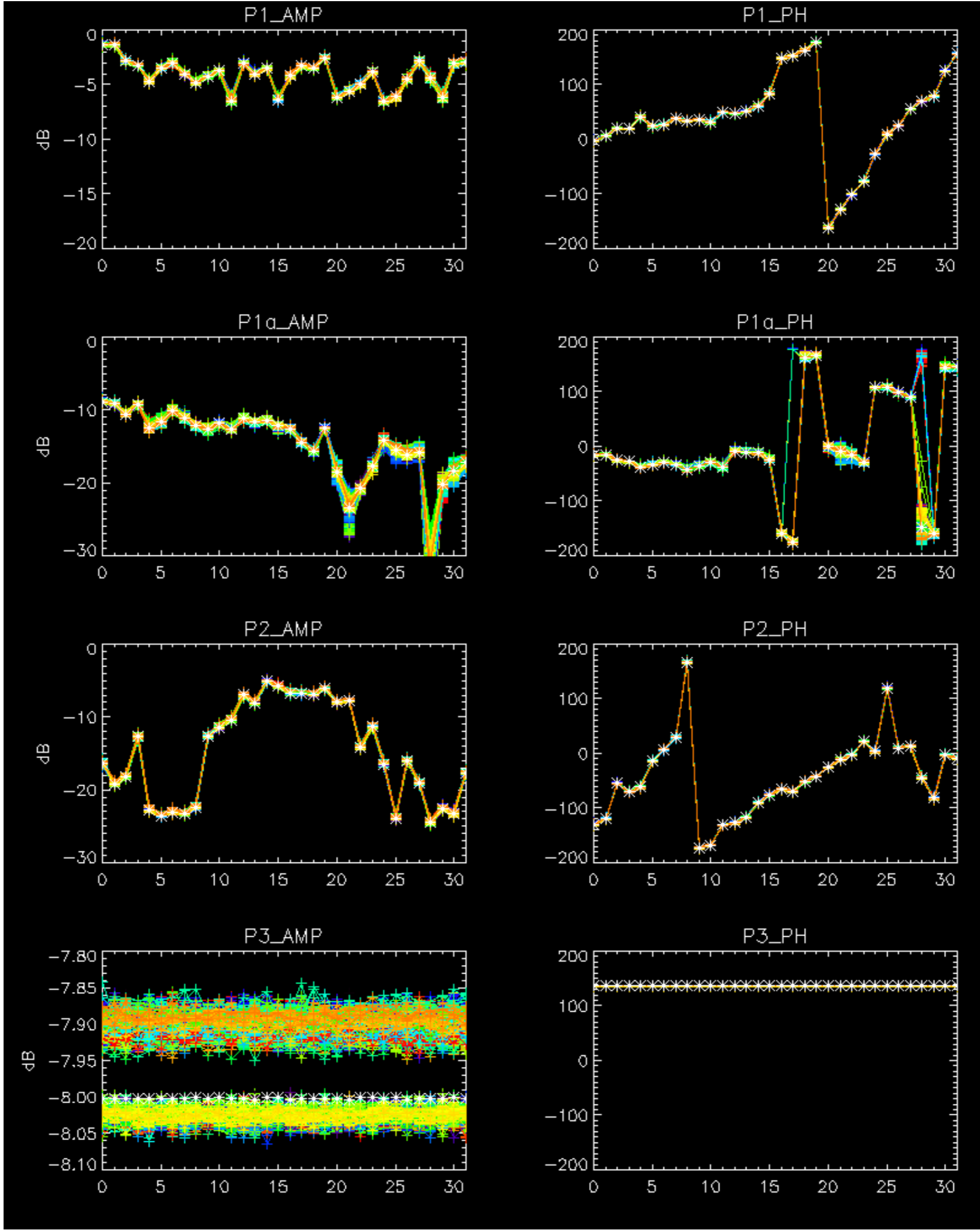


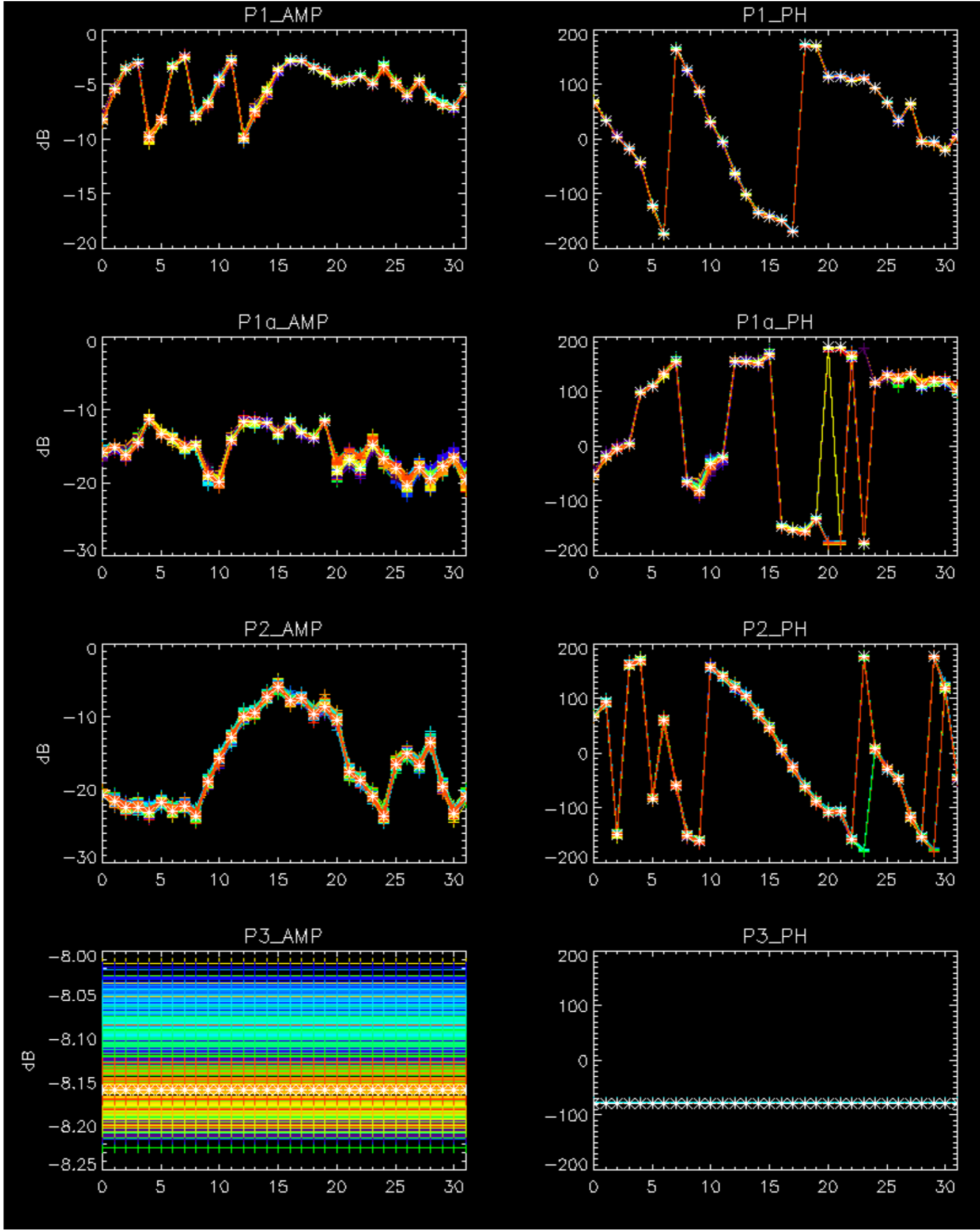
Cal pulses for WVS IS2





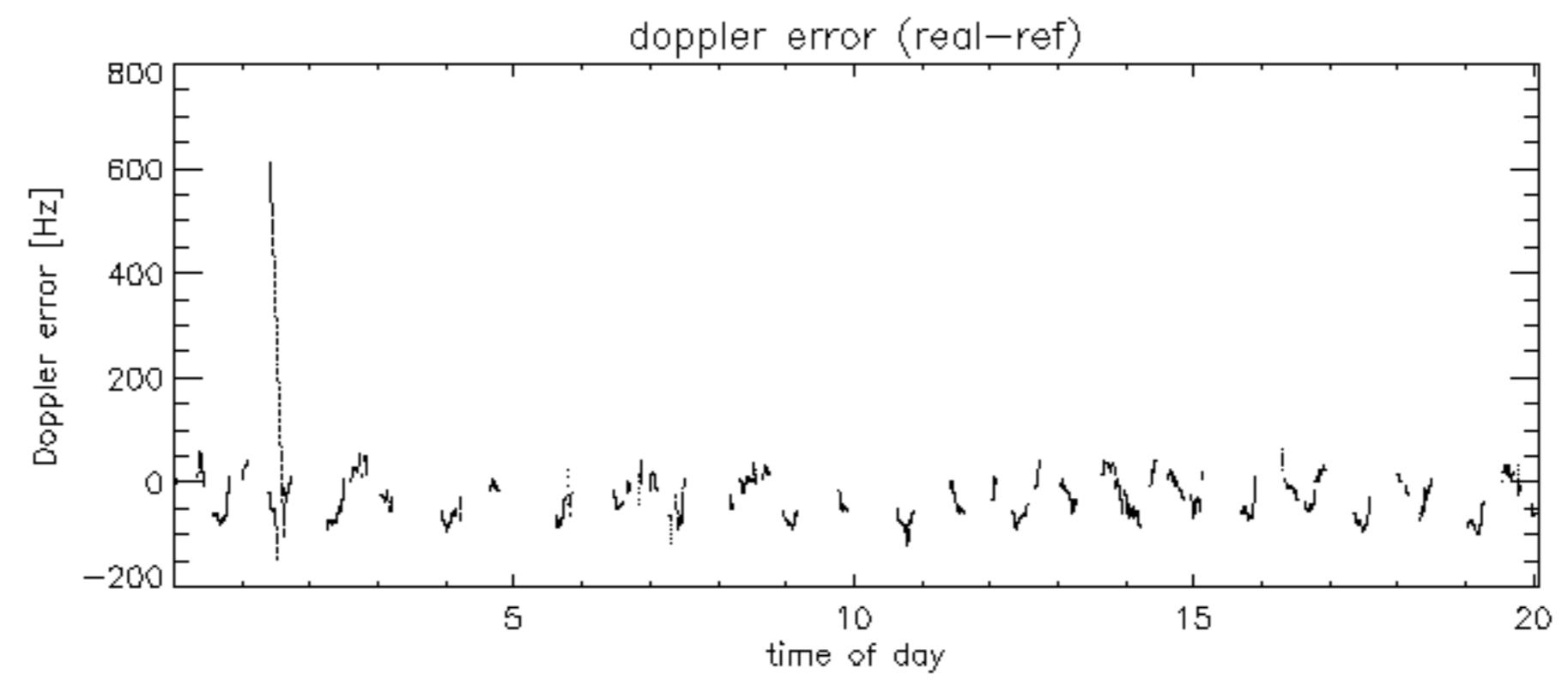
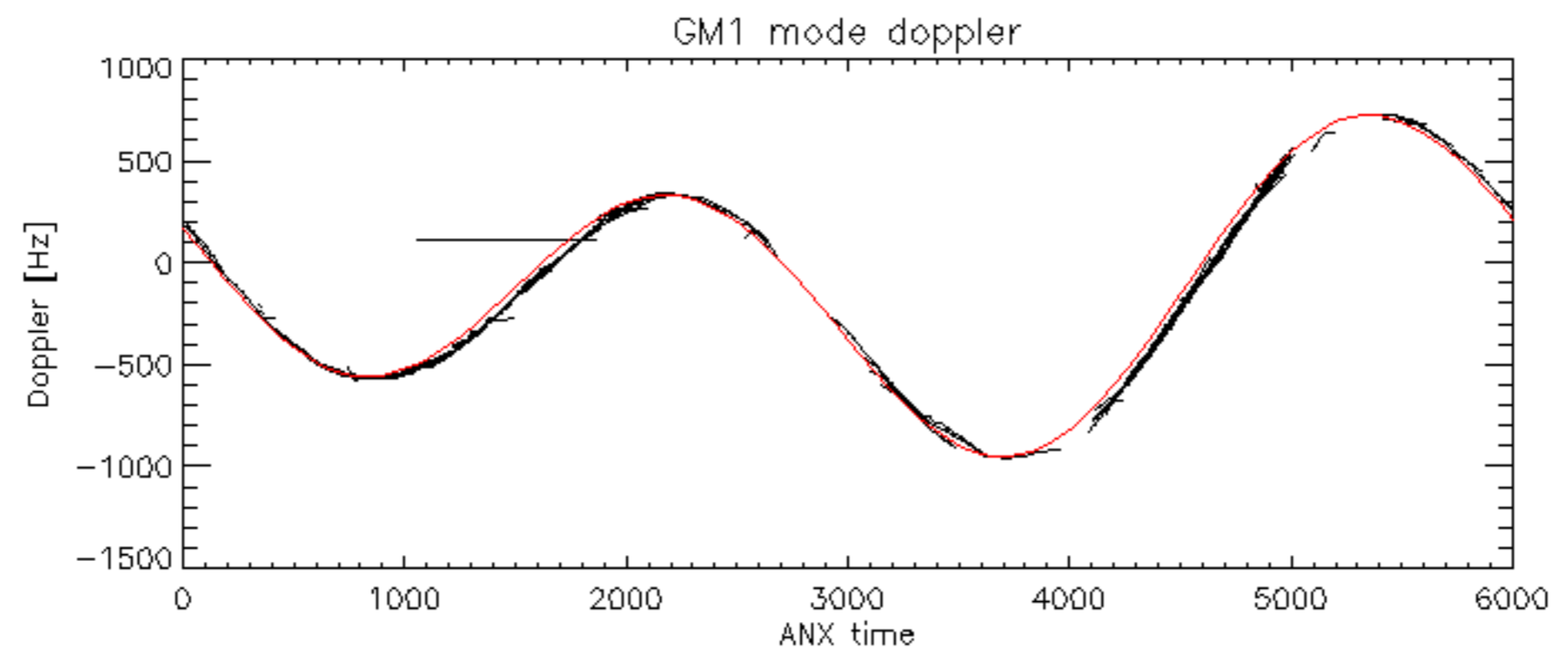
No anomalies observed.

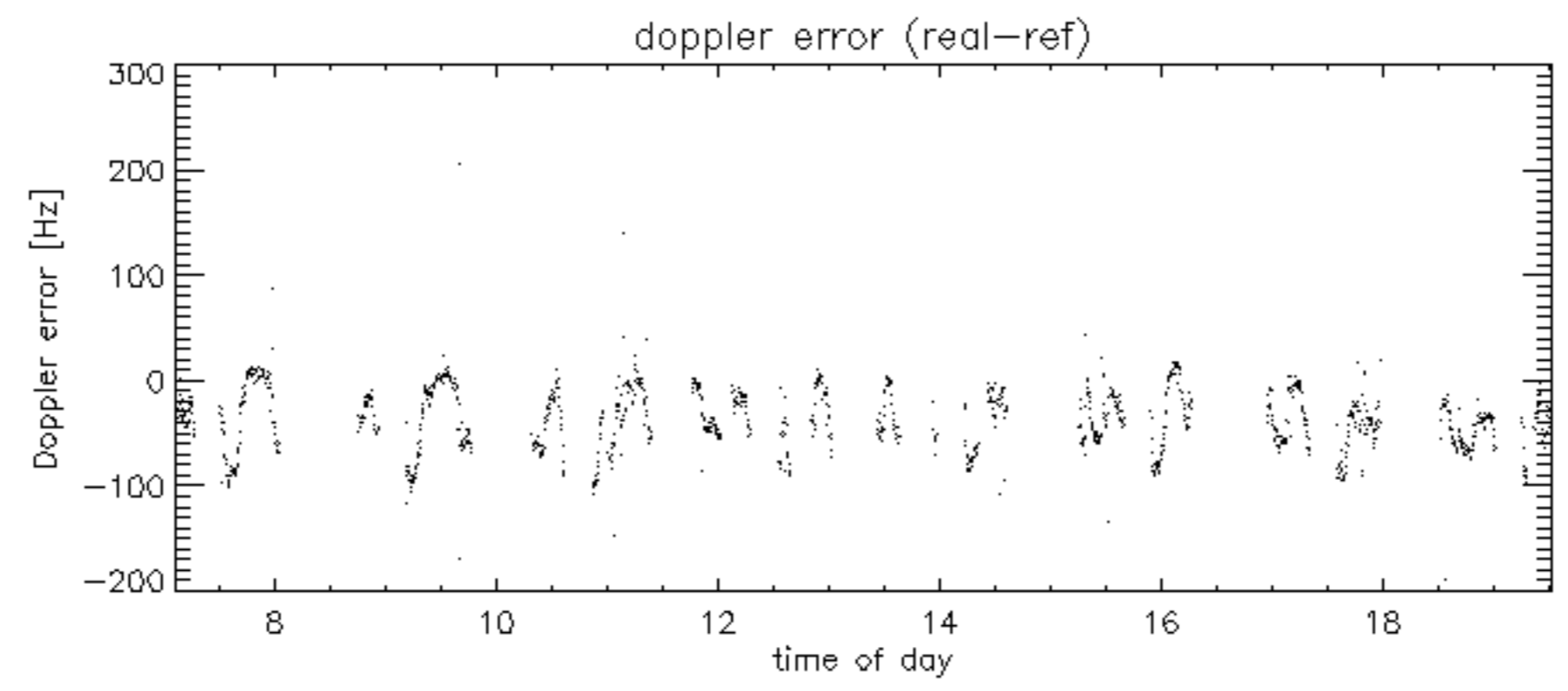
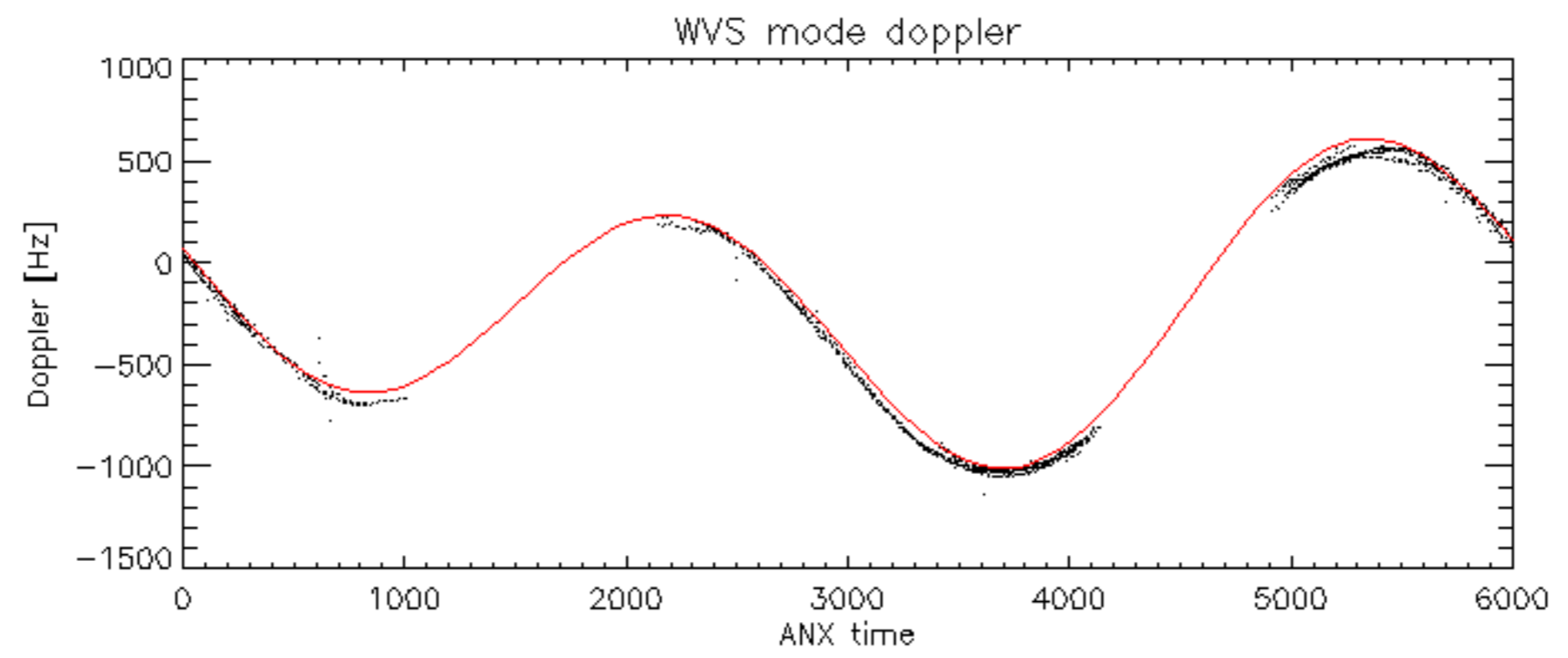




- Stable wave internal calibration pulses gain and phase.
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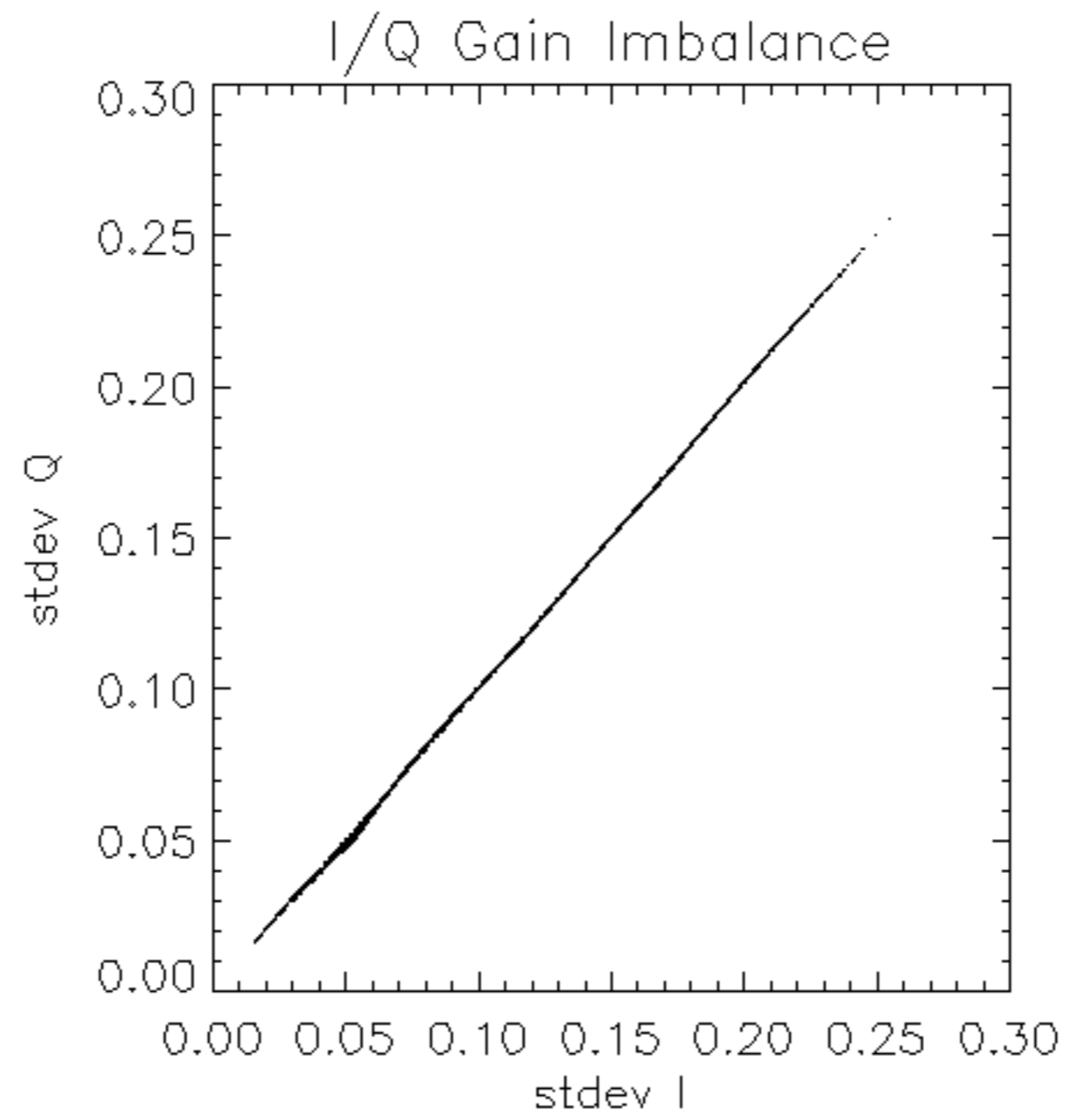


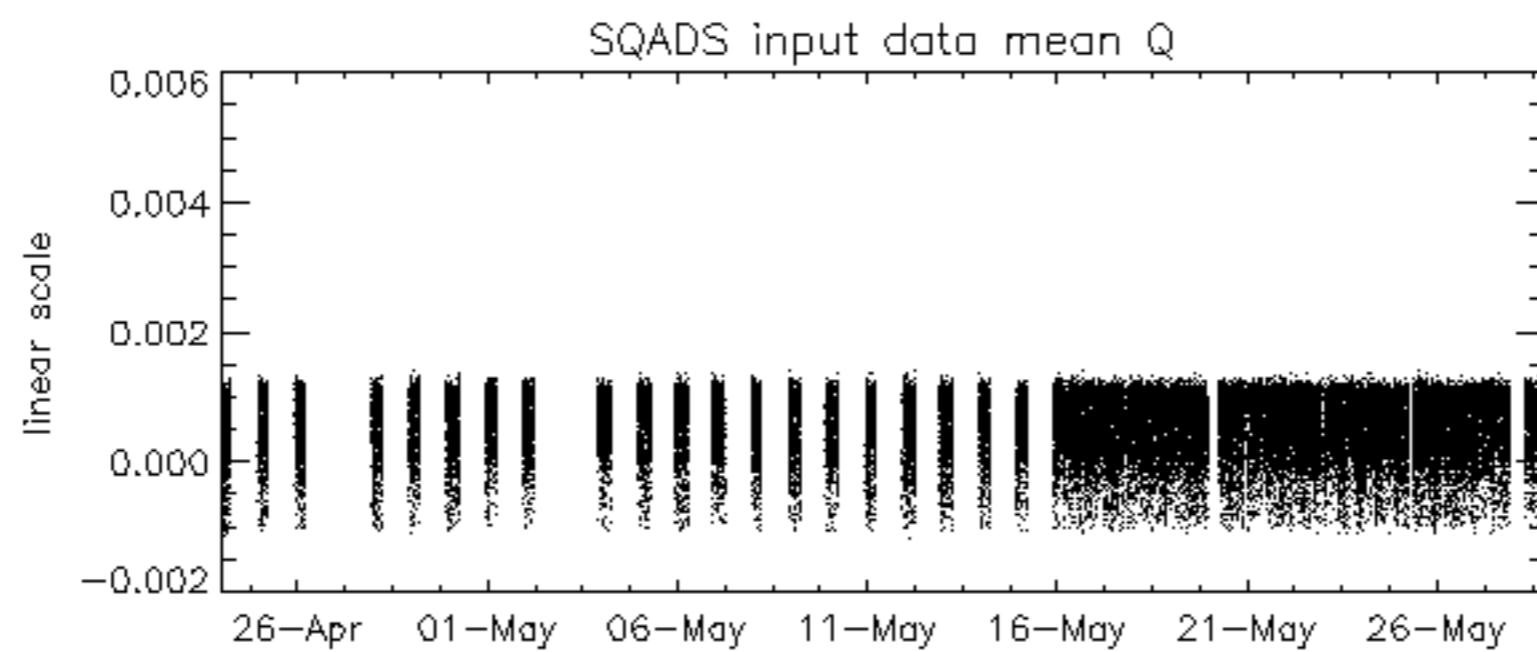
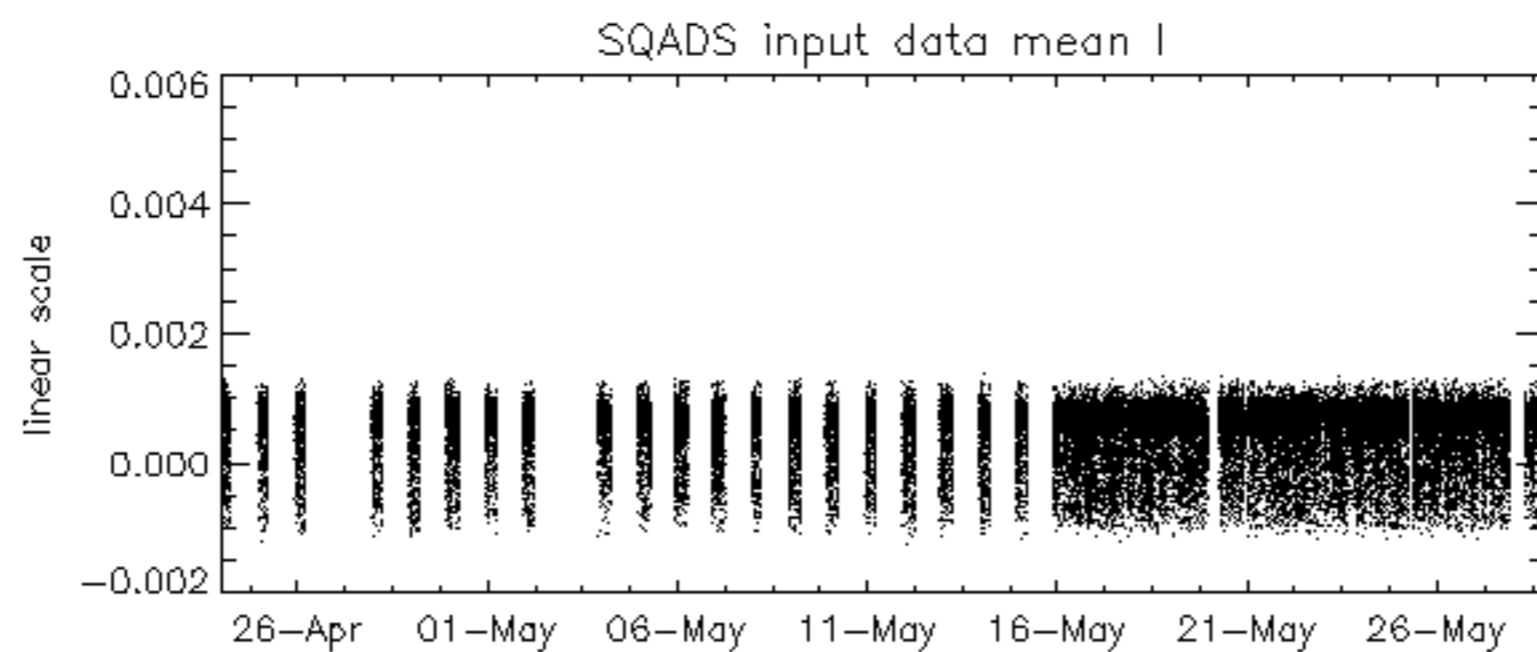
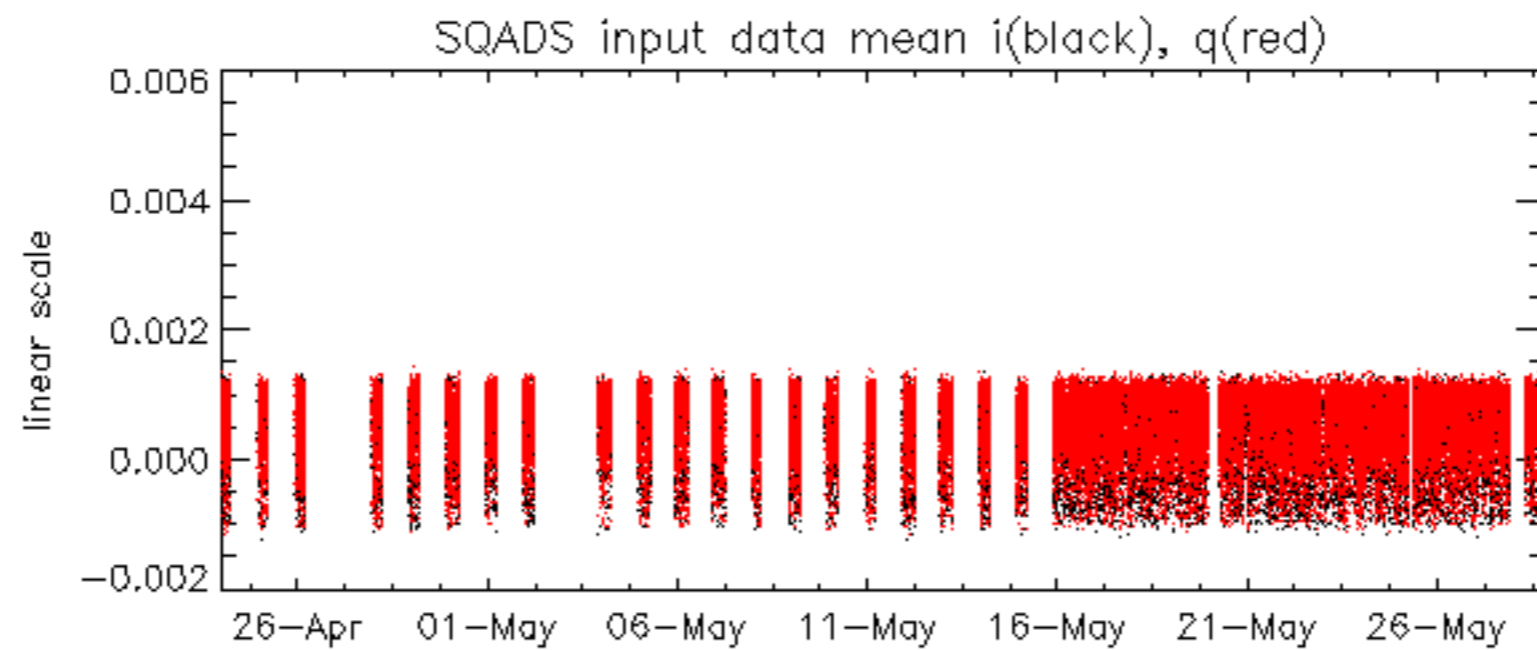


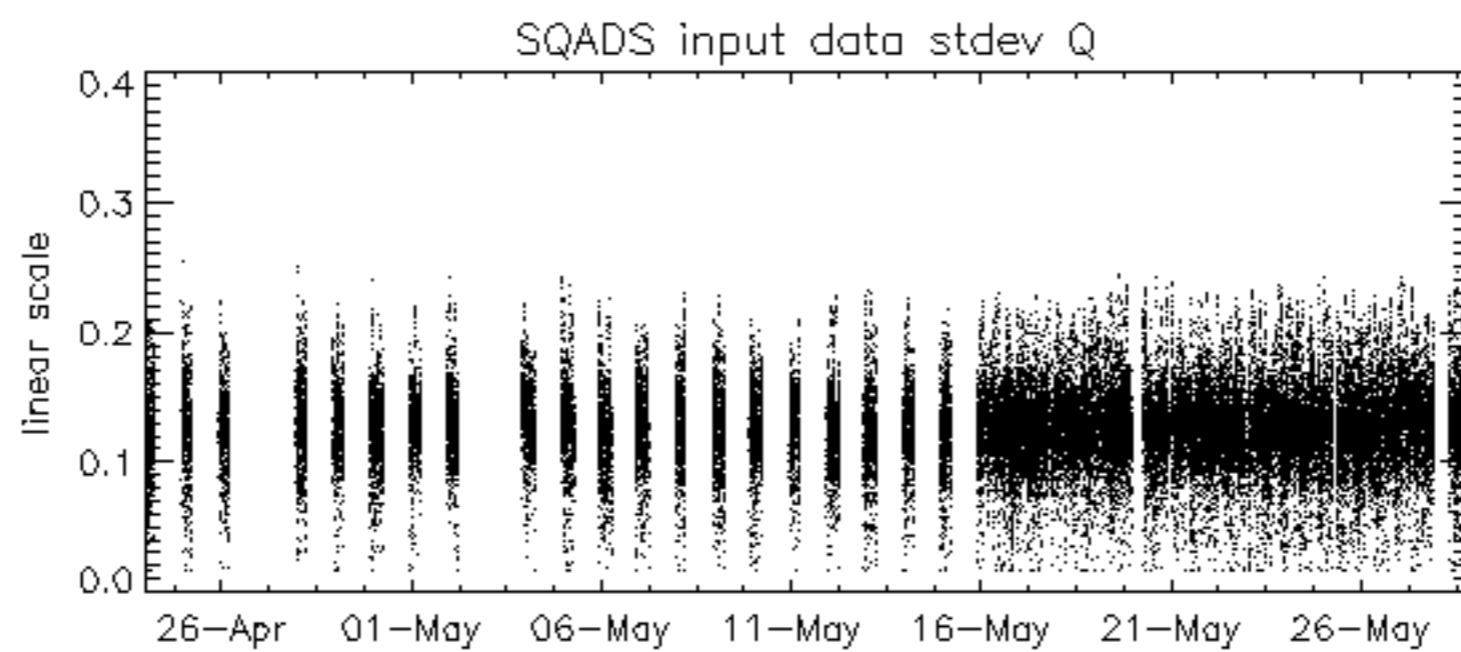
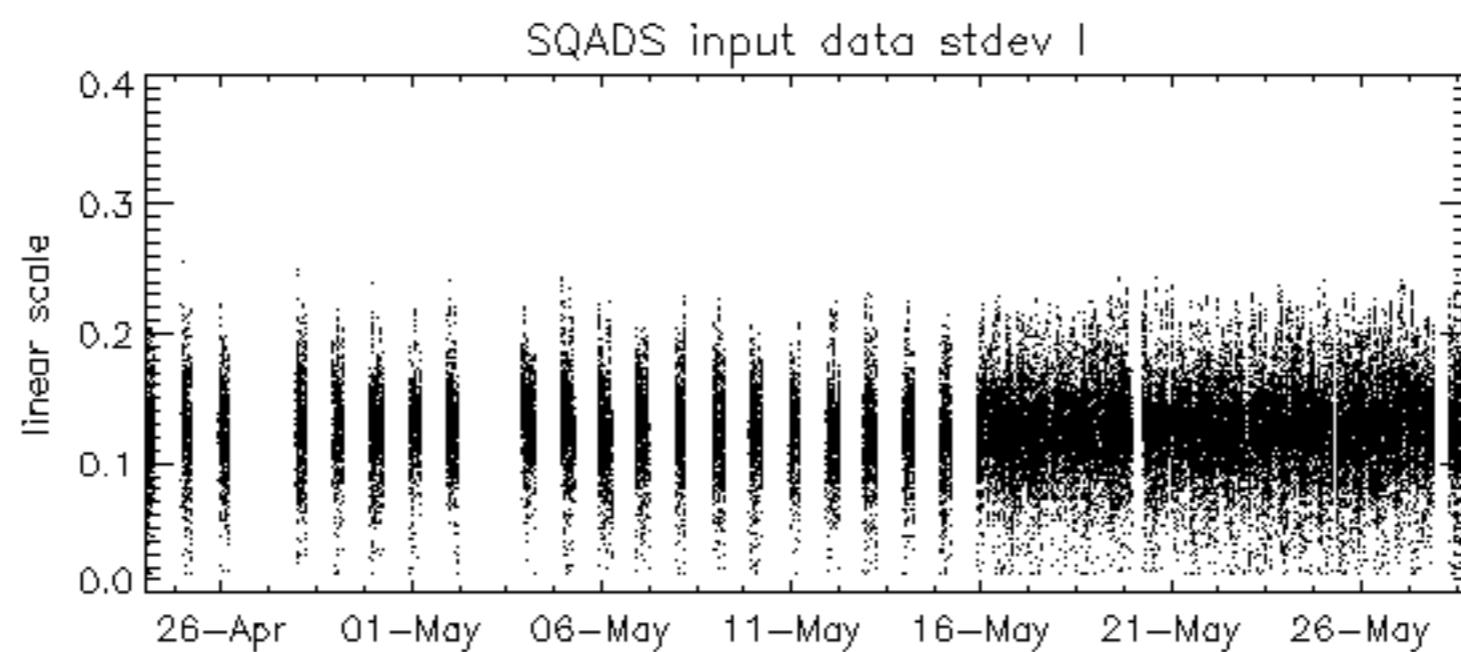
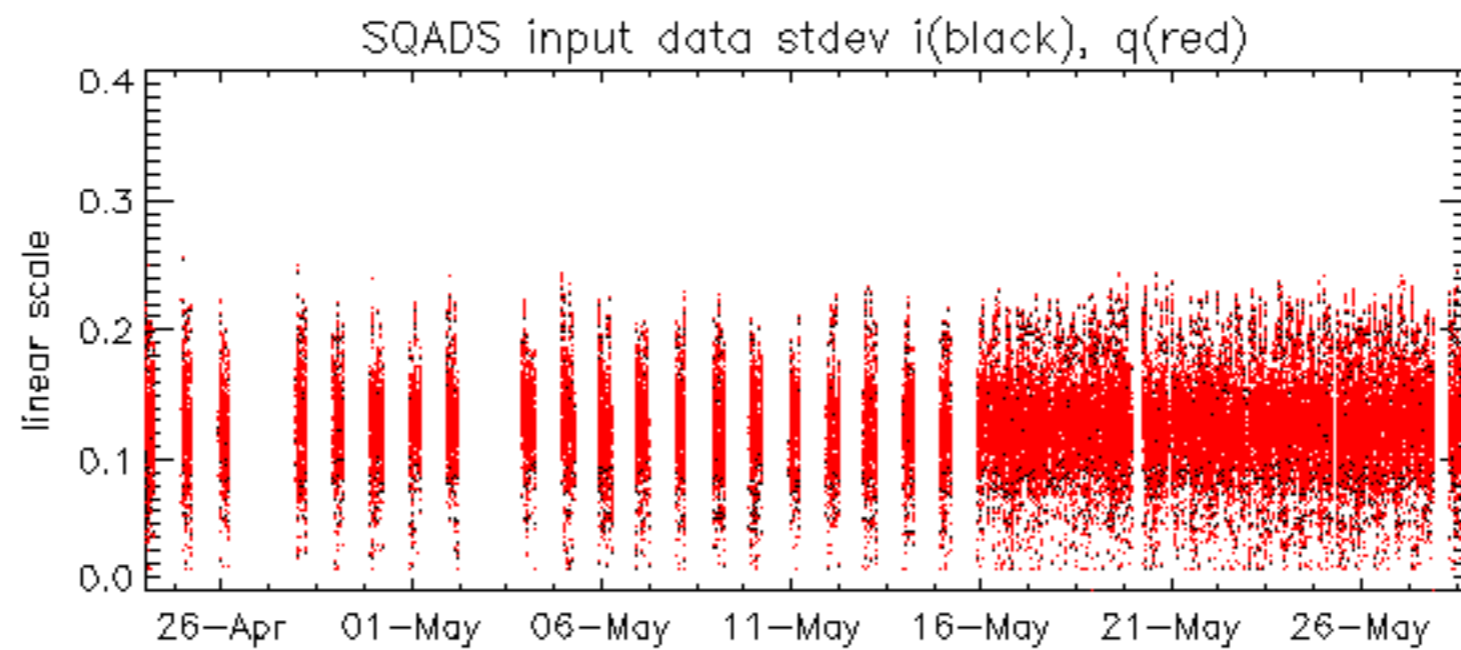
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No anomalies observed on available MS products:

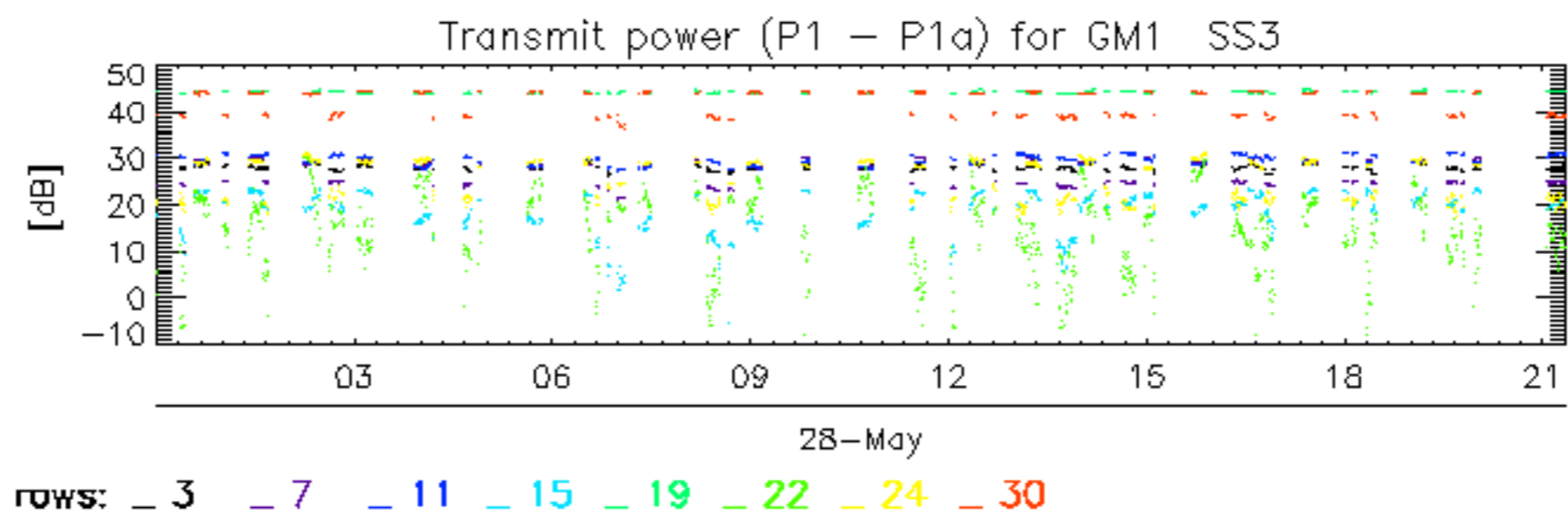


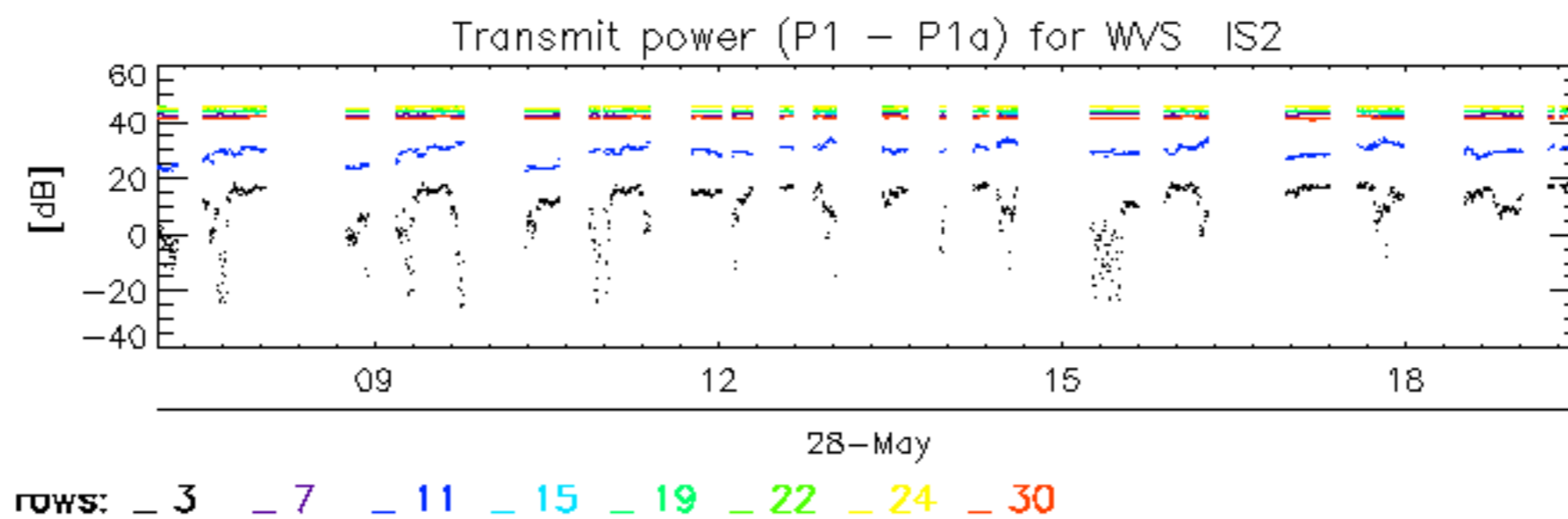
No anomalies observed.











No unavailabilities during the reported period.