

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2966 - L2 Version 001  
Chandra X-Ray Center

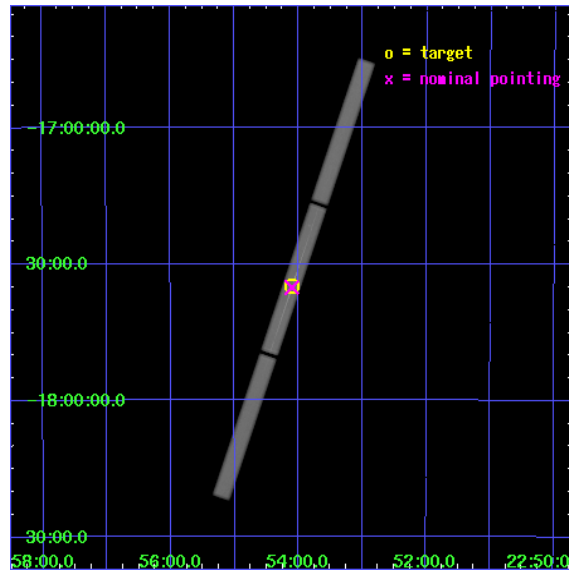
L2 Processing Date : Oct 16 2006

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# 1 Front

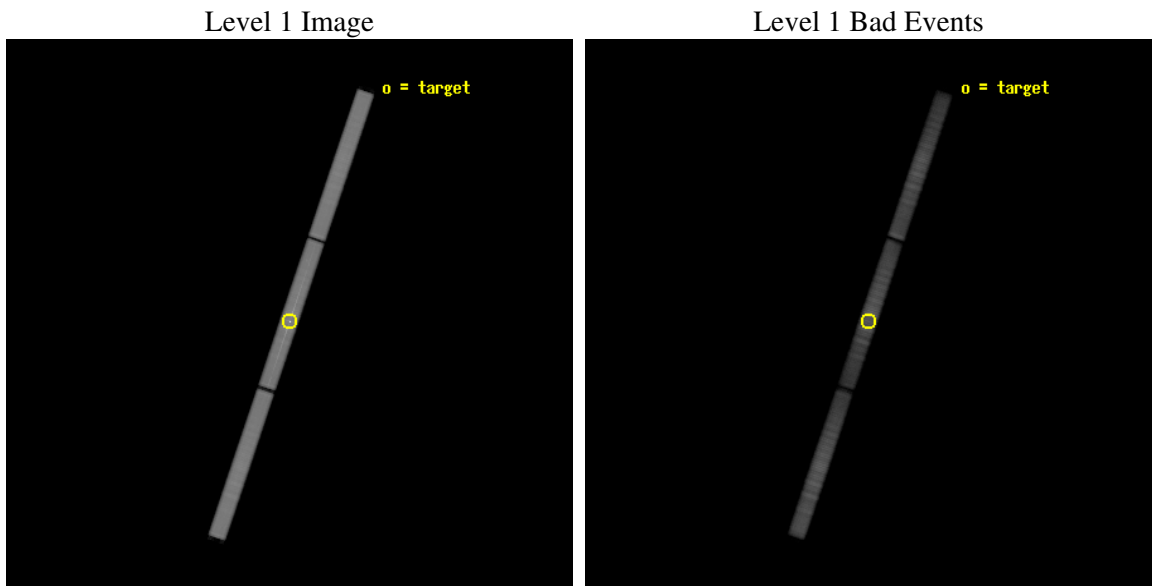
seq_num	700405
obs_id	2966
title	THE QUASAR MR2251-178 AND ITS WARM ABSORBER
observer	Dr. Peter Predehl
object	MR2251-178
ra_targ	343.524167
dec_targ	-17.581944
ra_nom	343.52560305039
dec_nom	-17.586379434112
roll_nom	288.6545402221
revision	3
ontime	78977.534548789
livetime	78500.585517235
l2events	3755766



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



## 2.1.2 Parameters

obi_num	1
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-16T04:43:15
revision	3

sched_exp_time	79000.000000
ontime	79063.378302425
l1events	5335720

## 2.1.3 Events

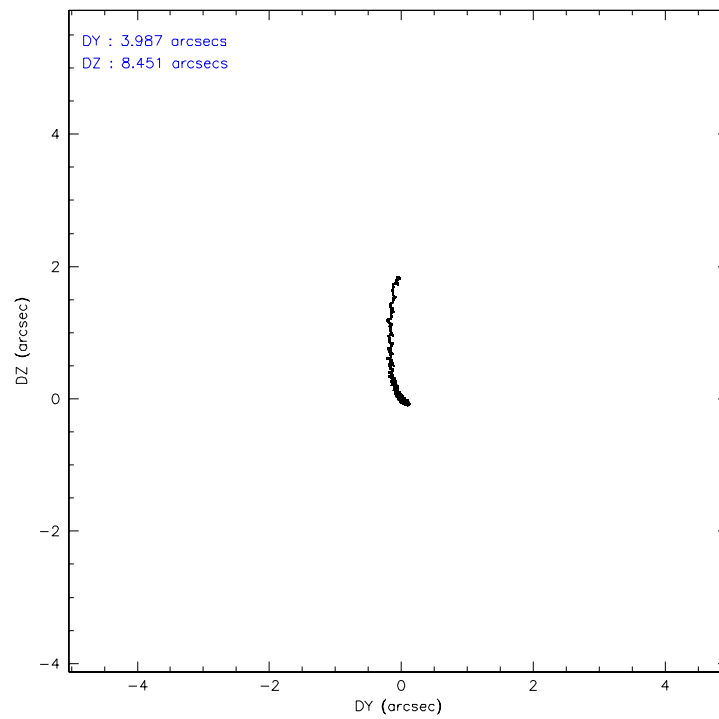
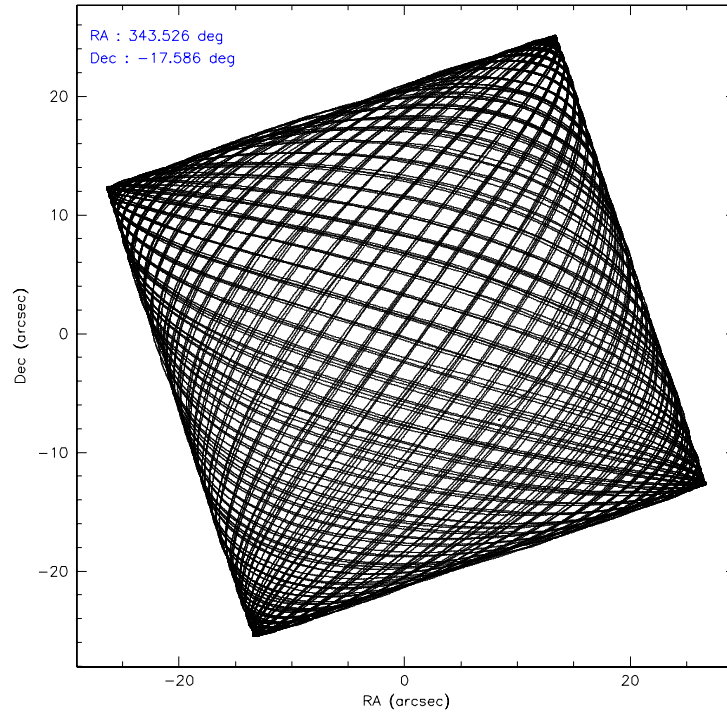
### Level 1 Events

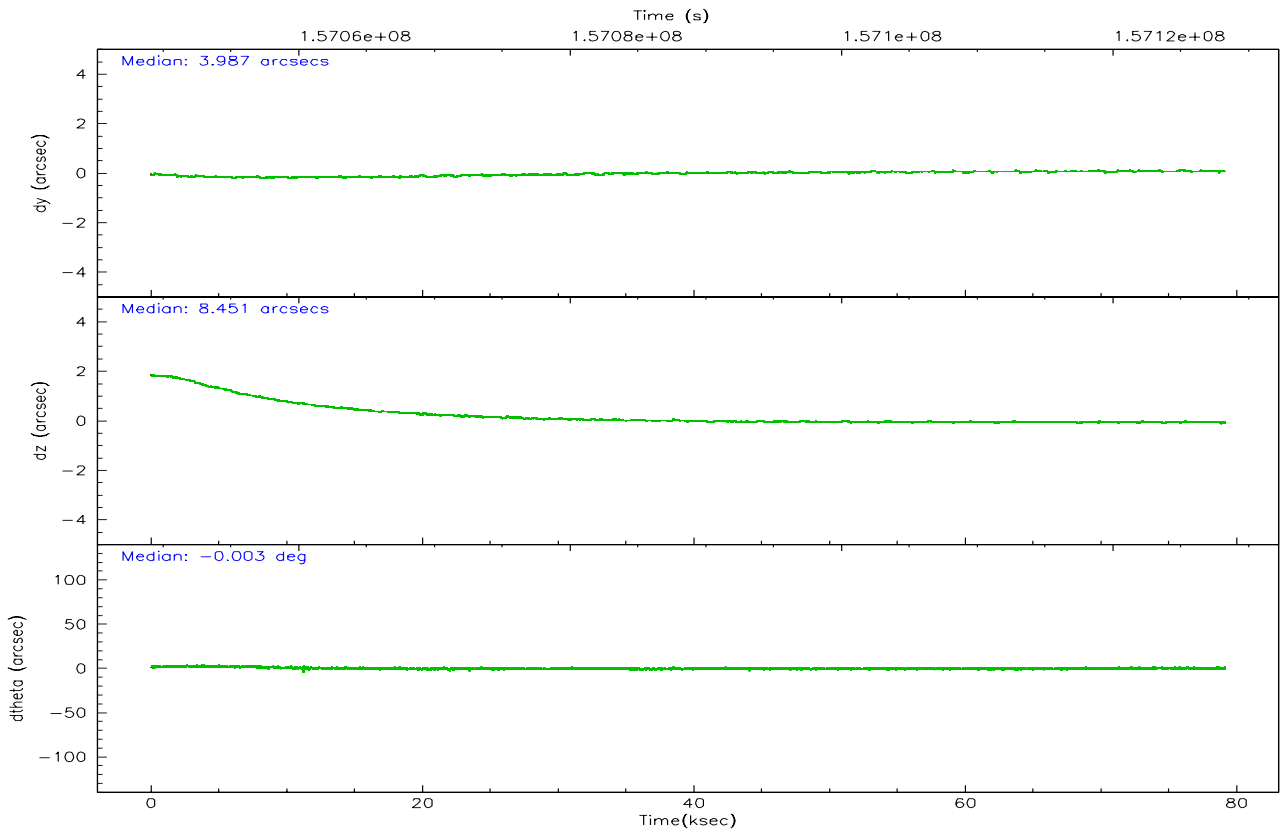
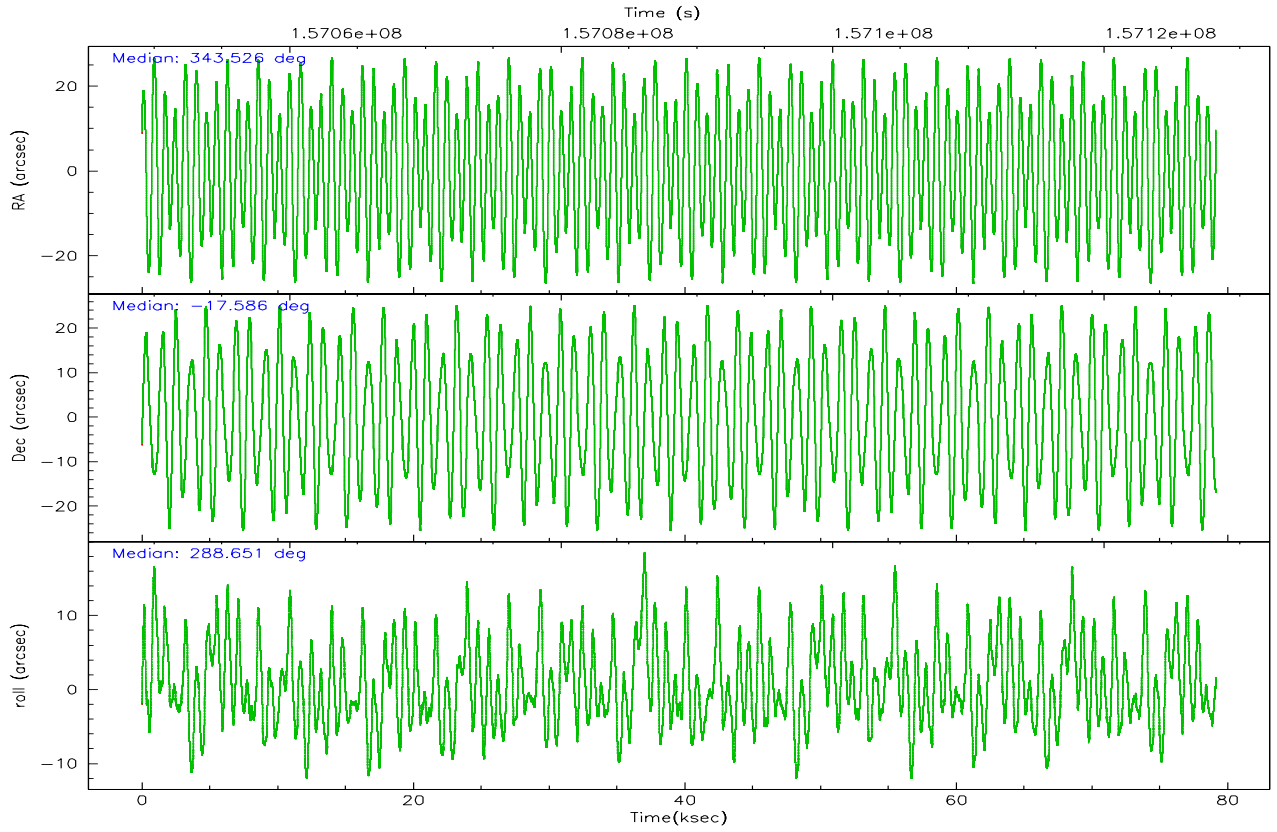
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1783552	1814029	1738139
rejected events	337899	367849	415428
rejected %	18%	20%	23%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	343.502125	343.5256030503946			
Pointing Dec	-17.568606	-17.58637943411237			
Pointing Roll	288.580113	288.6545402221045			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	157049292.184000	157048747.8998			
Observation start date	2002-12-23T16:47:08	2002-12-23T16:39:07			
Observation end time	157128292.184000	157129060.75315			
Observation end date	2002-12-24T14:43:48	2002-12-24T14:57:40			

## 2.3 Aspect



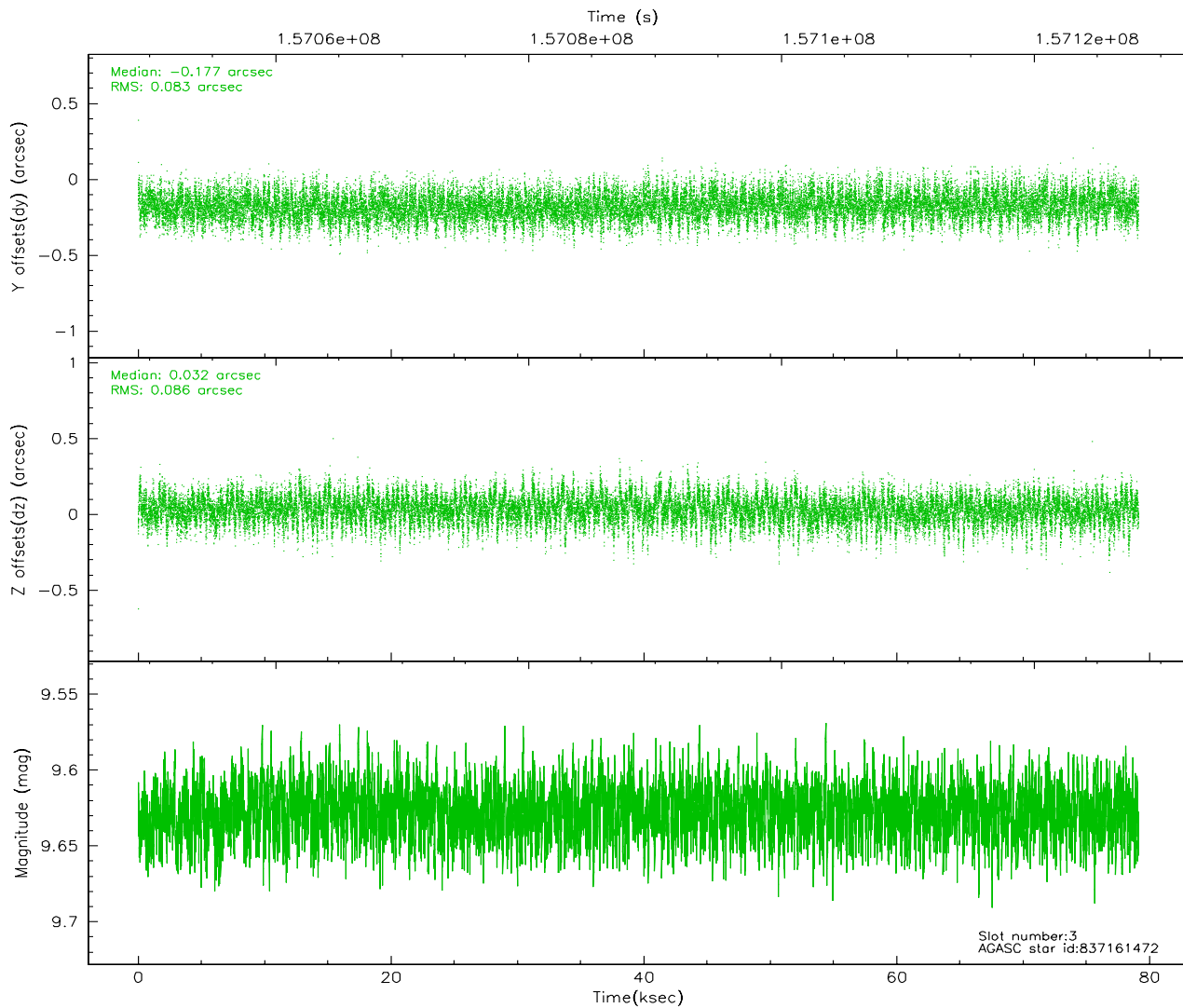
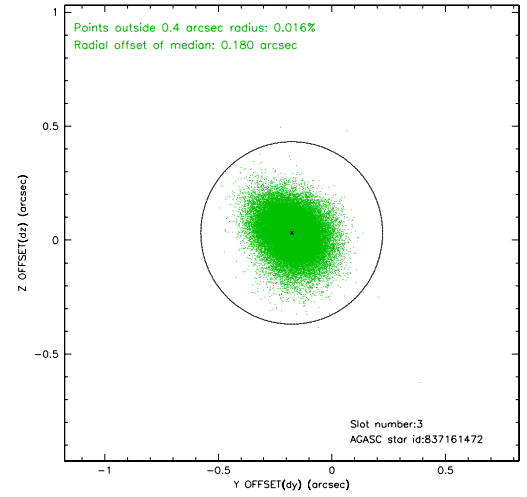
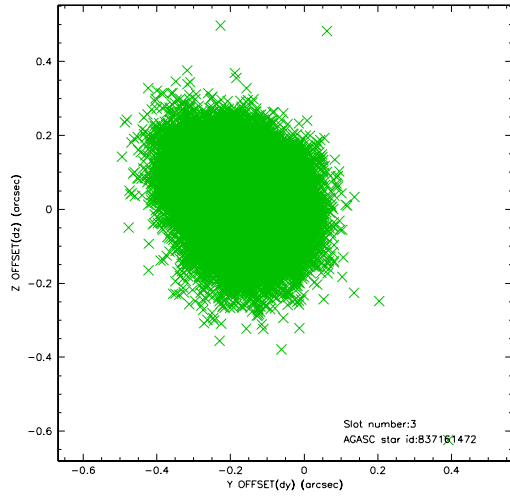


### Slot Statistics

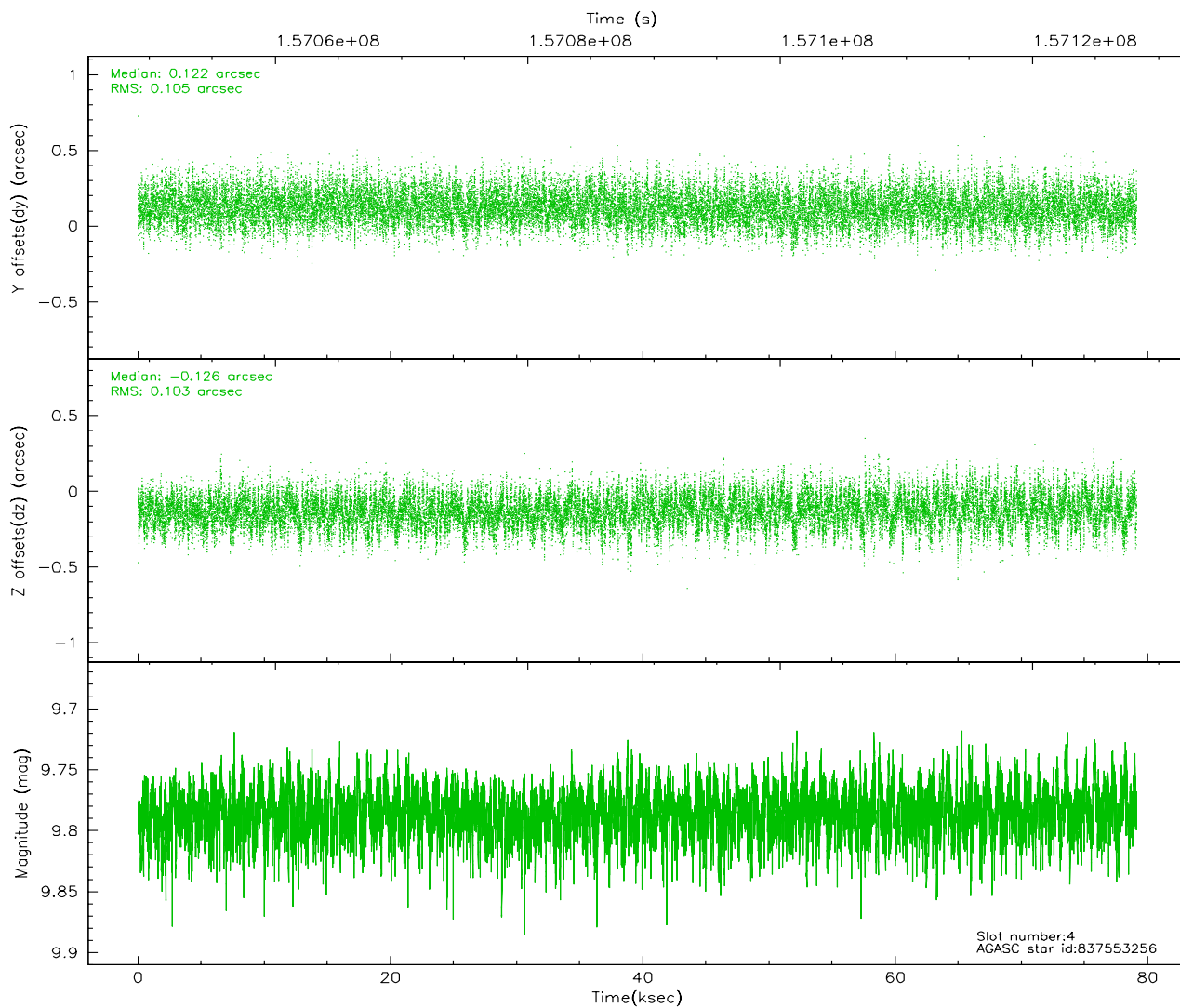
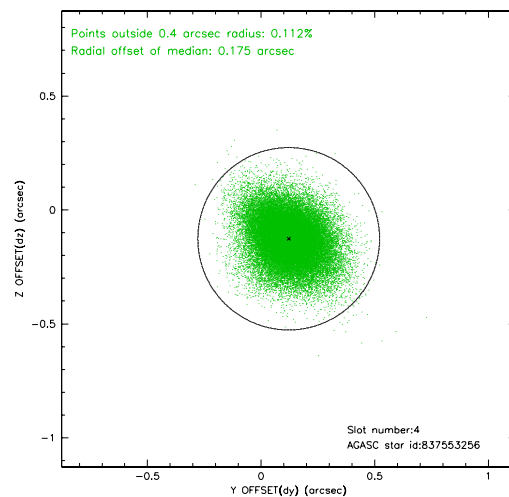
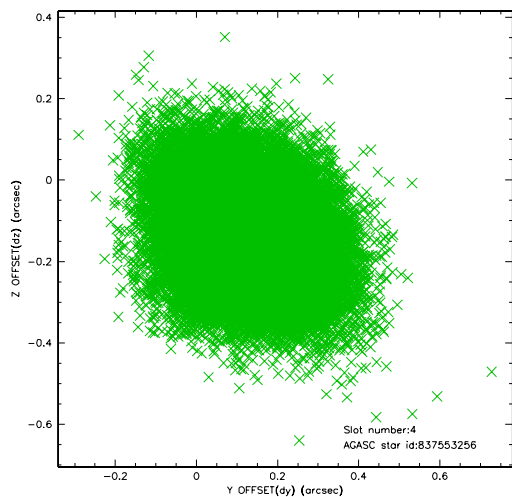
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	19303	0.163	-0.133	0.015	0.054	0.000000	0.000000	-1158.00	-457.30
1	FID	HRC-S-2	7.03	19302	0.070	-0.088	0.013	0.019	0.000000	0.000000	1241.53	-449.91
2	FID	HRC-S-3	7.04	19305	0.159	-0.081	0.019	0.061	0.000000	0.000000	-1160.66	572.28
3	GUIDE	837161472	9.63	38594	-0.177	0.032	0.126	0.209	343.568933	-17.032215	-1757.03	833.19
4	GUIDE	837553256	9.79	38490	0.122	-0.126	0.155	0.255	343.019127	-18.263800	1848.80	-2363.31
5	GUIDE	838467600	9.74	38399	0.038	0.059	0.115	0.189	344.074702	-17.924682	1843.07	1449.76
6	GUIDE	837161840	10.45	38563	-0.037	0.071	0.198	0.385	343.044174	-17.106952	-2075.34	-964.53
7	GUIDE	837555048	8.50	38602	0.054	-0.029	0.080	0.142	343.494742	-18.059239	1666.53	-586.51

## 2.4 Star Slots

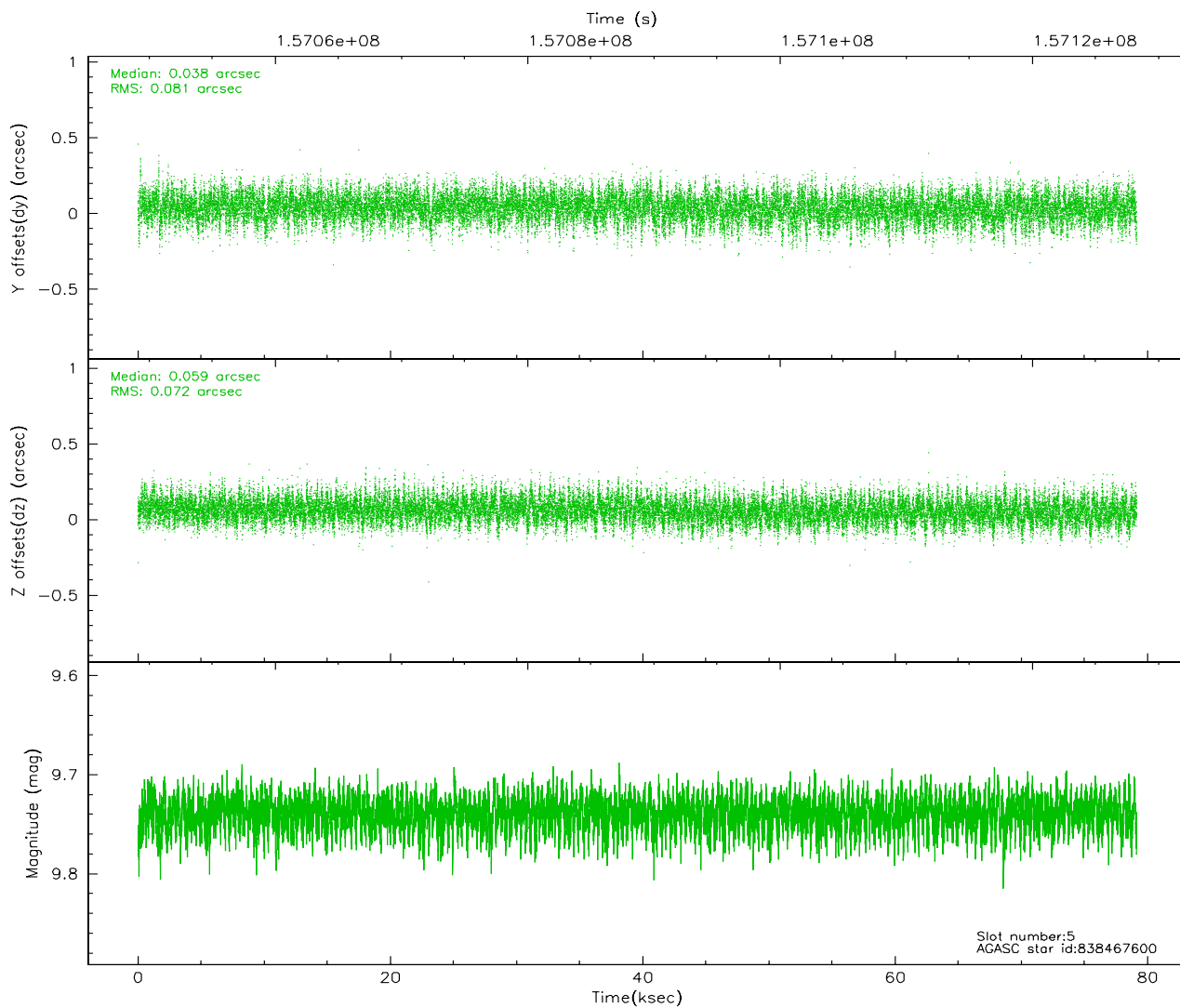
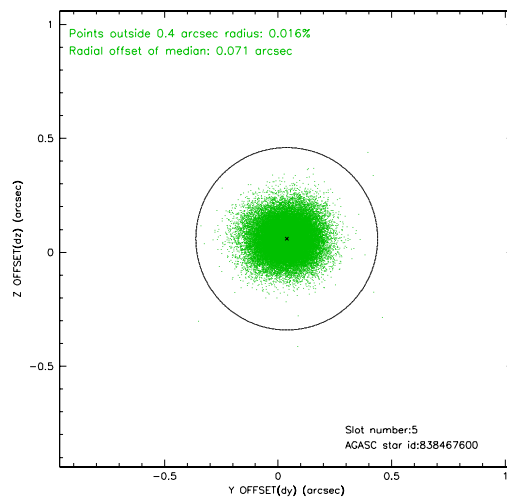
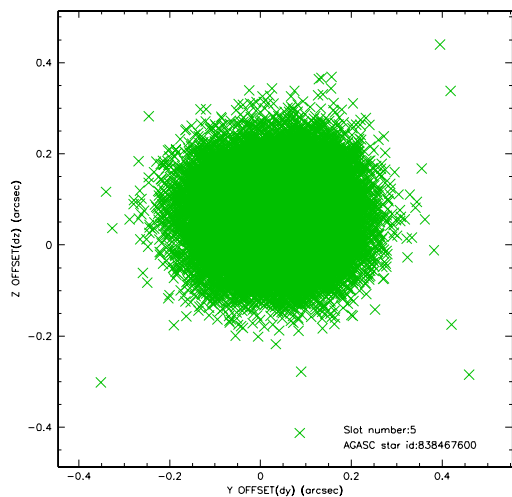
### 2.4.1 Slot 3



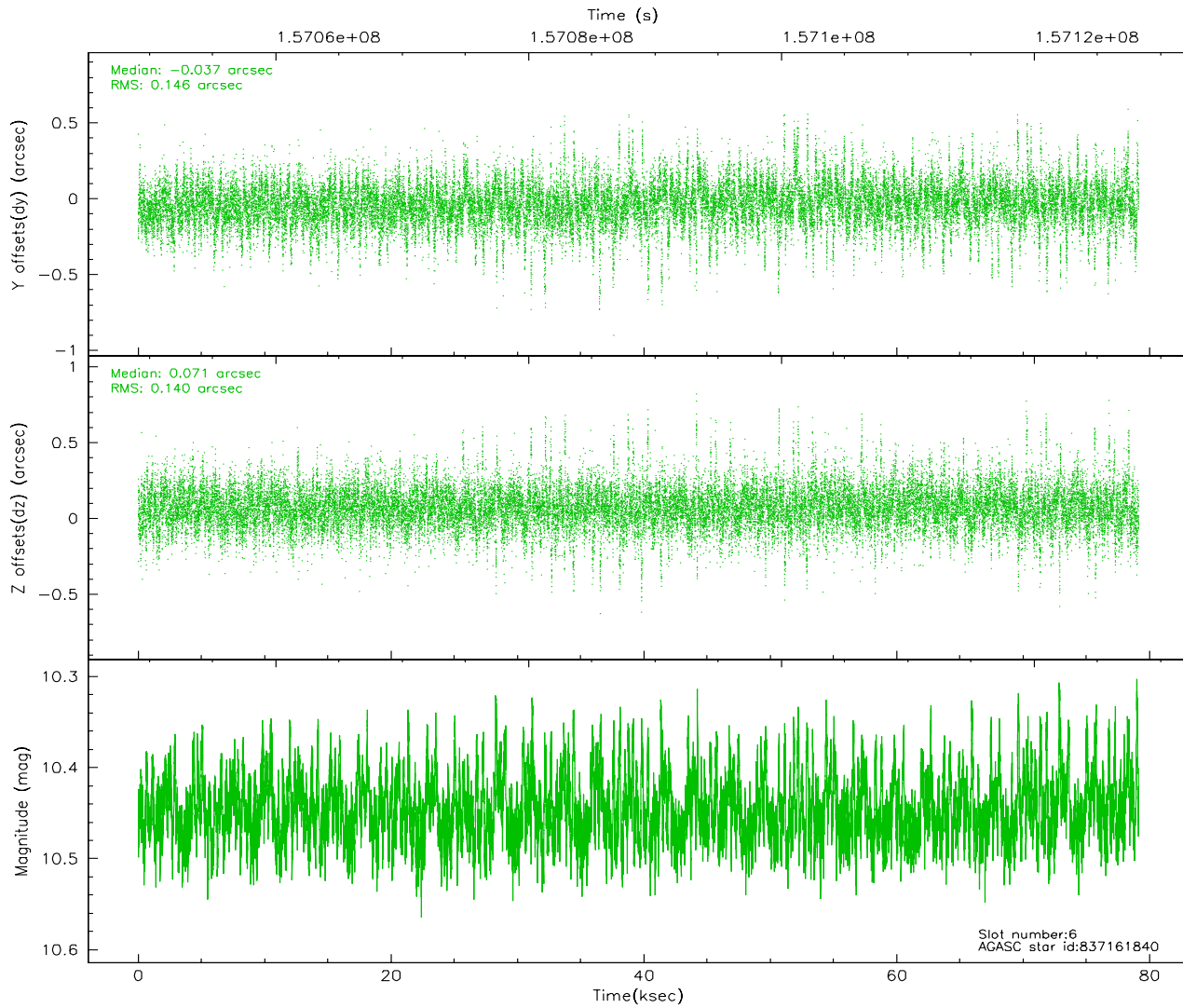
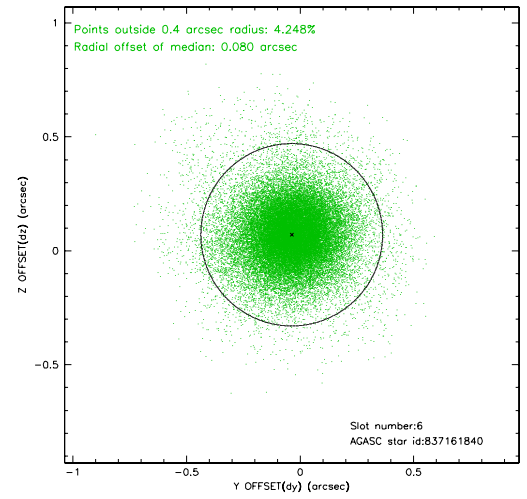
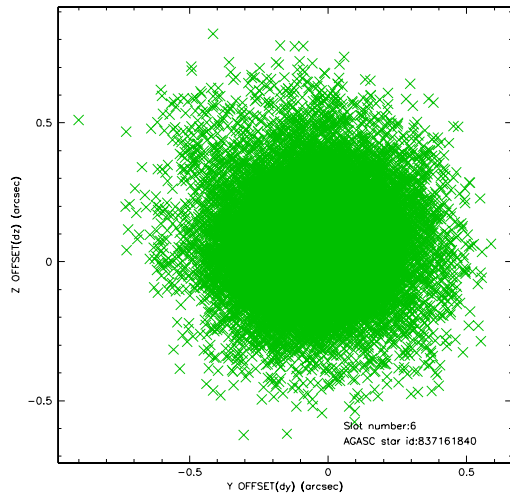
## 2.4.2 Slot 4



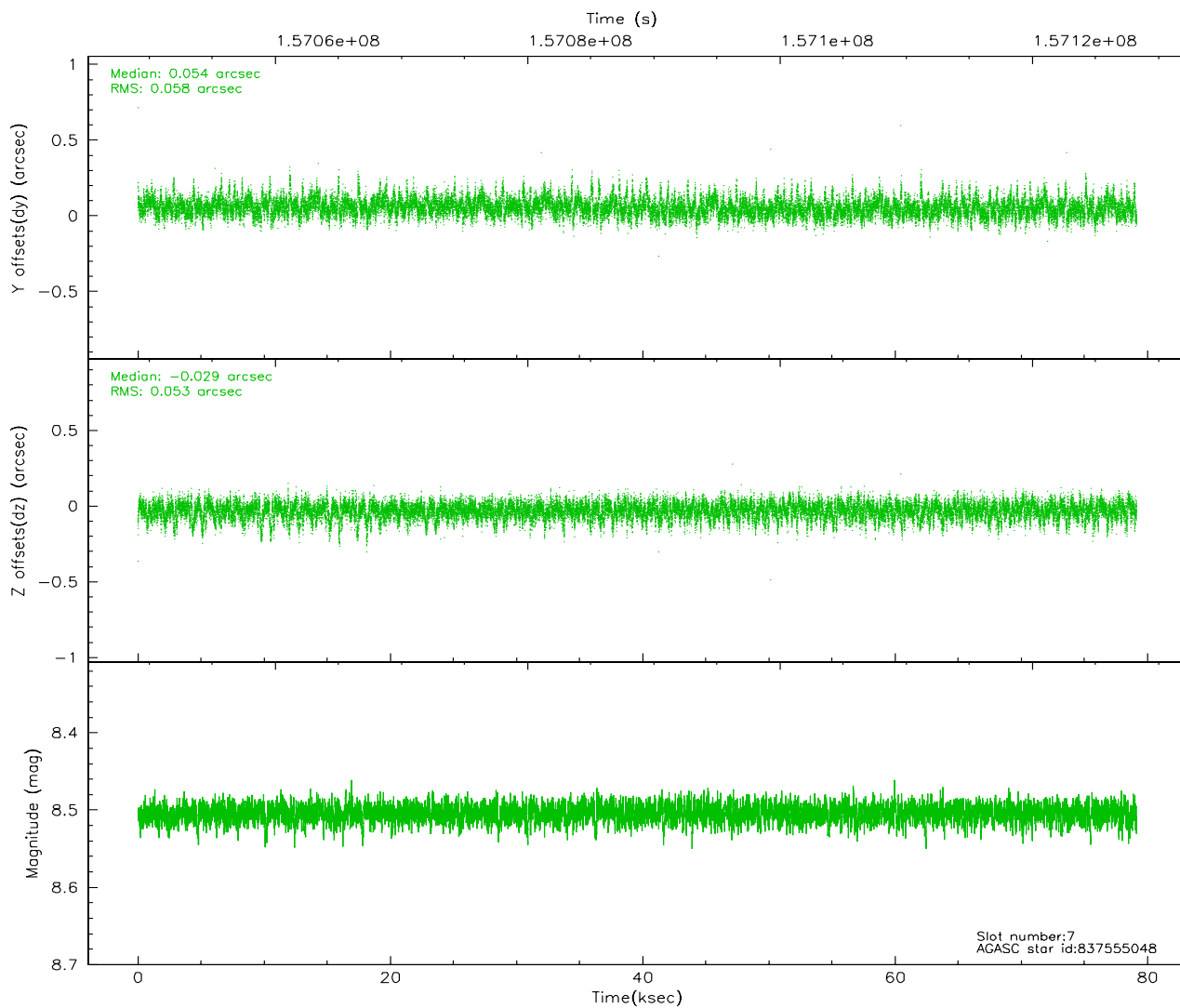
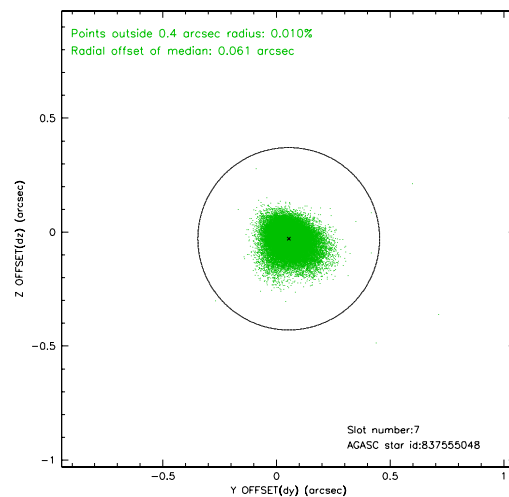
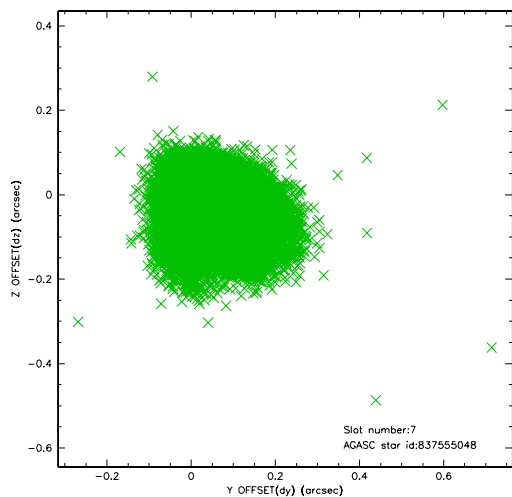
### 2.4.3 Slot 5



### 2.4.4 Slot 6

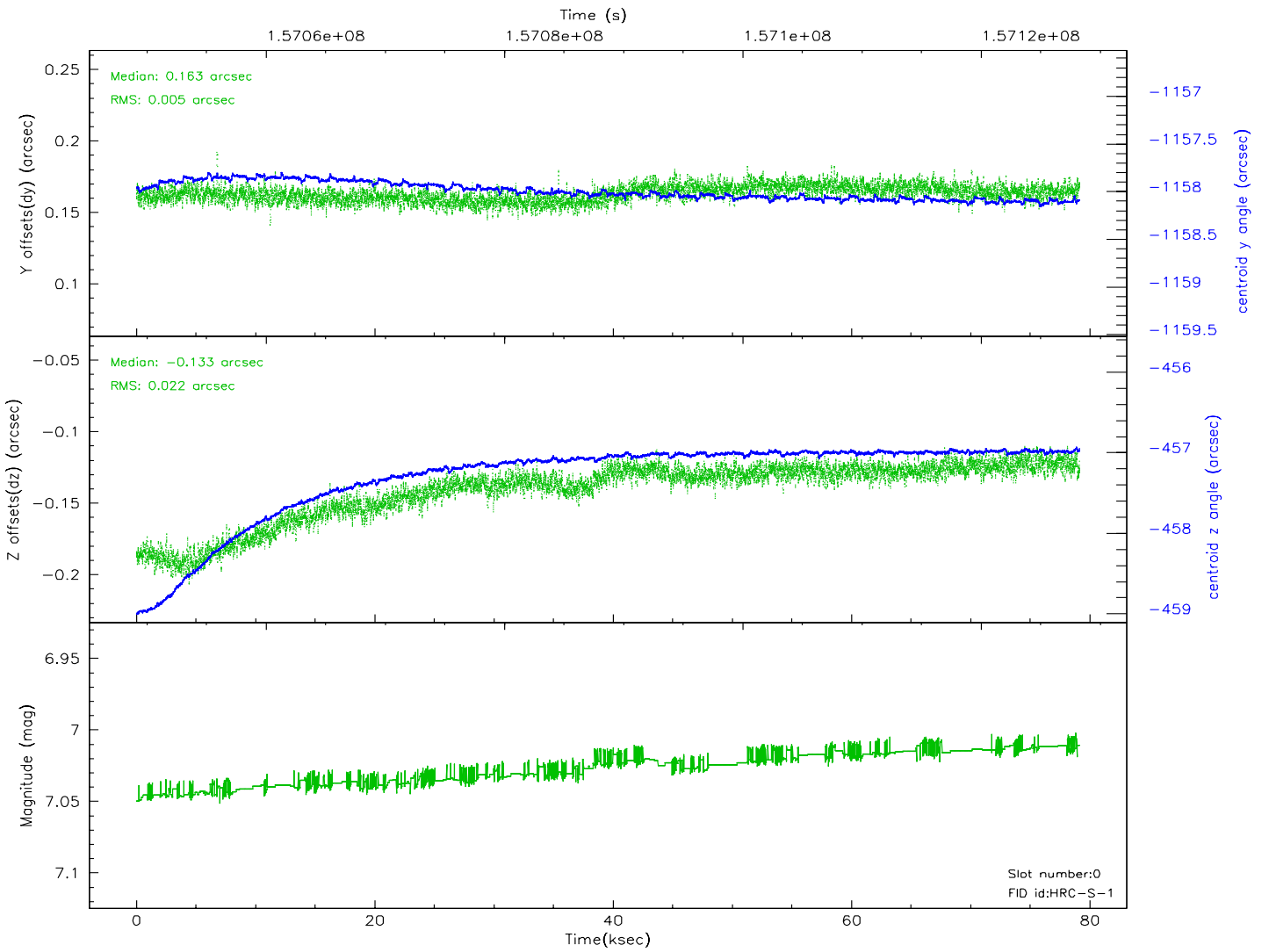
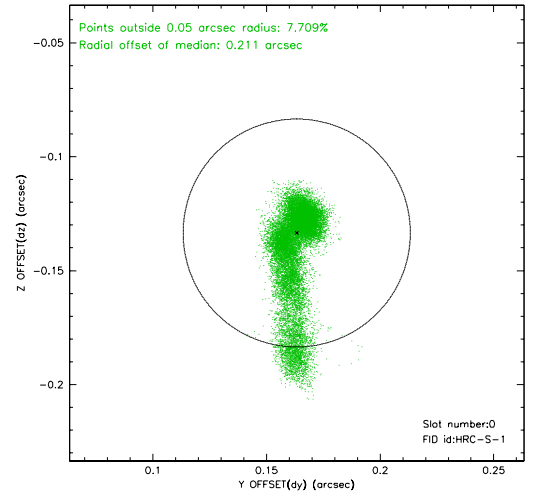
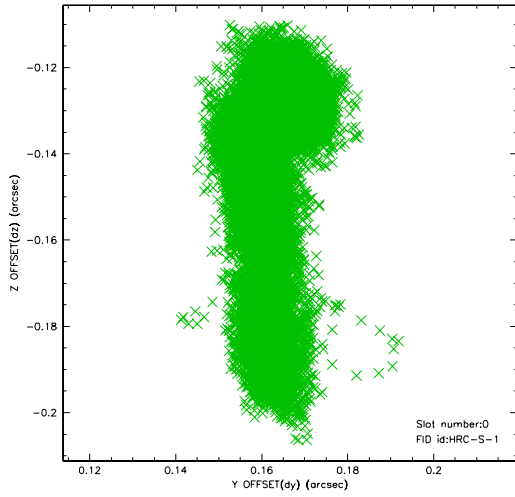


## 2.4.5 Slot 7

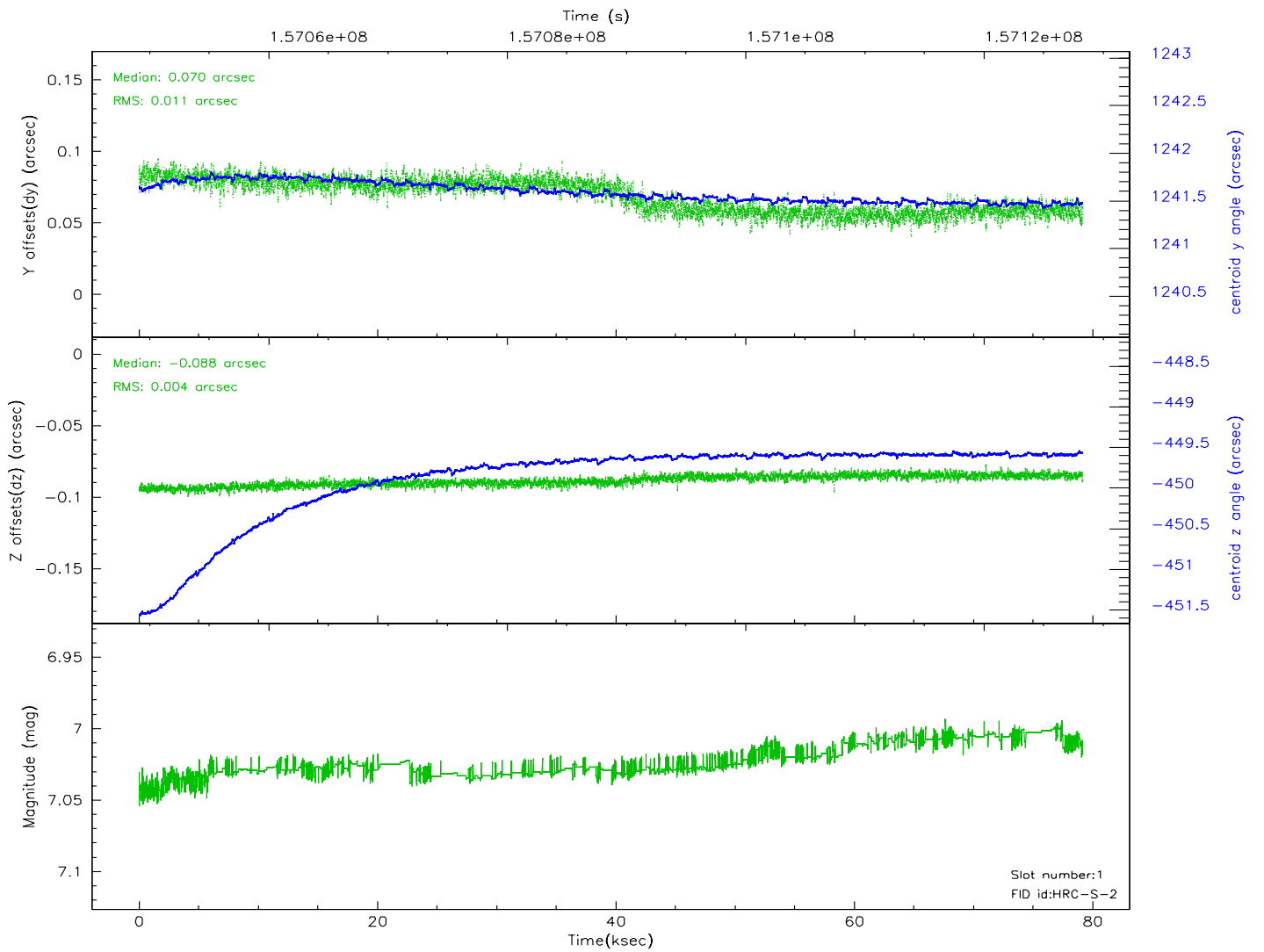
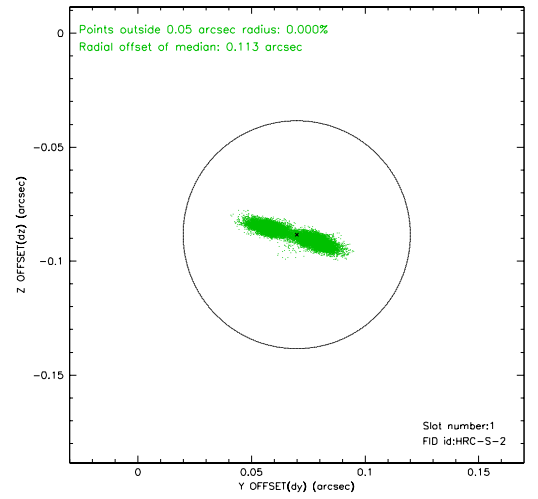
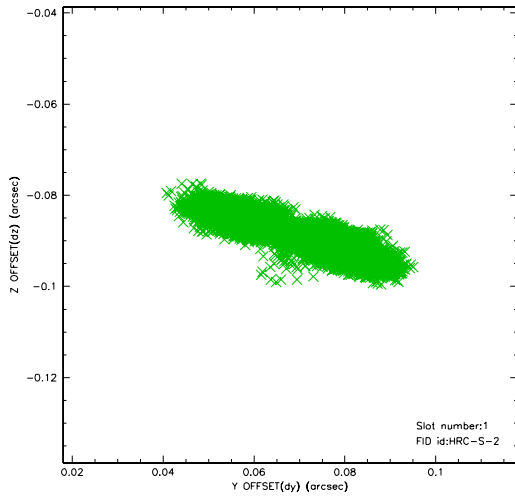


## 2.5 FID Slots

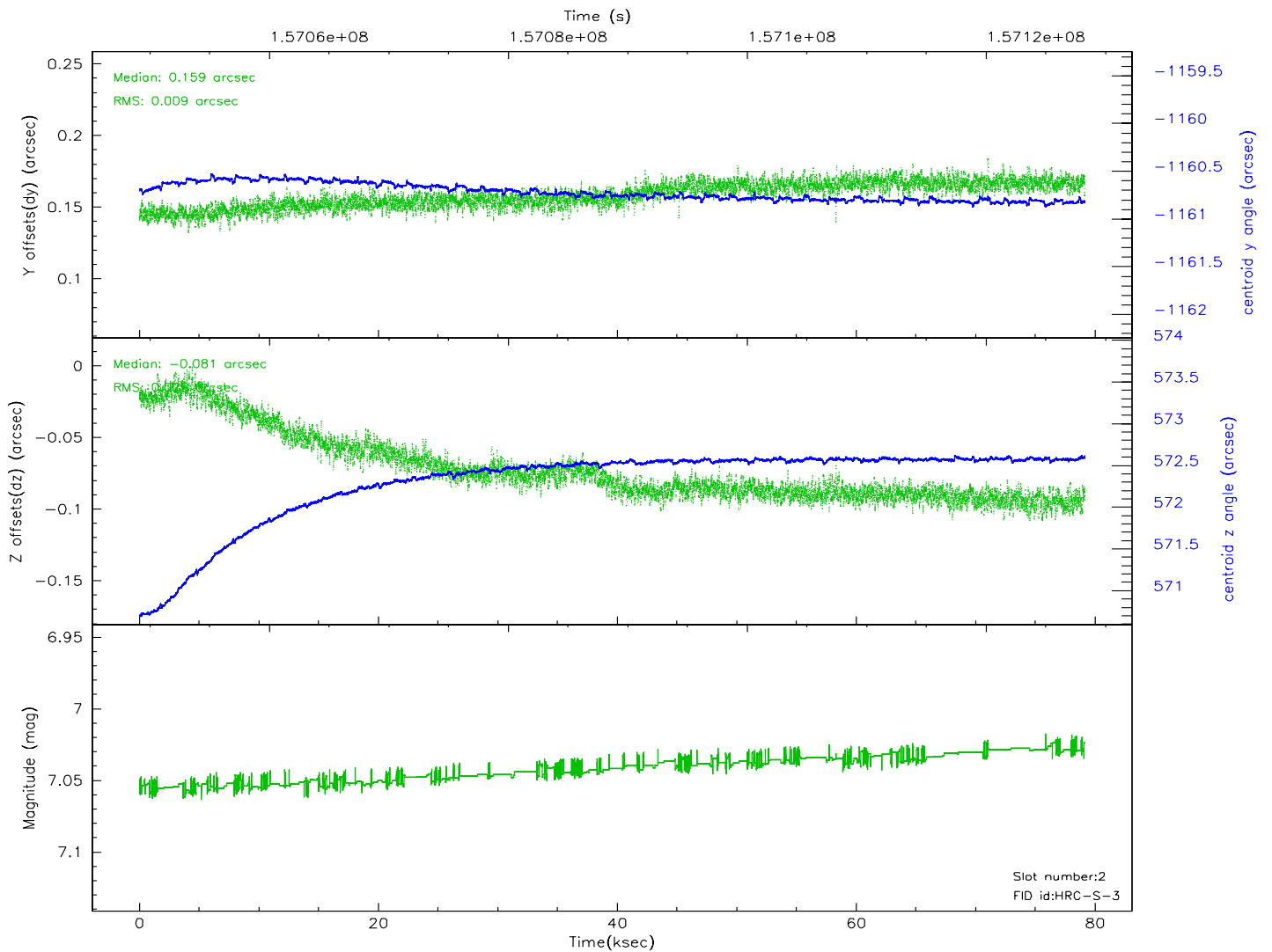
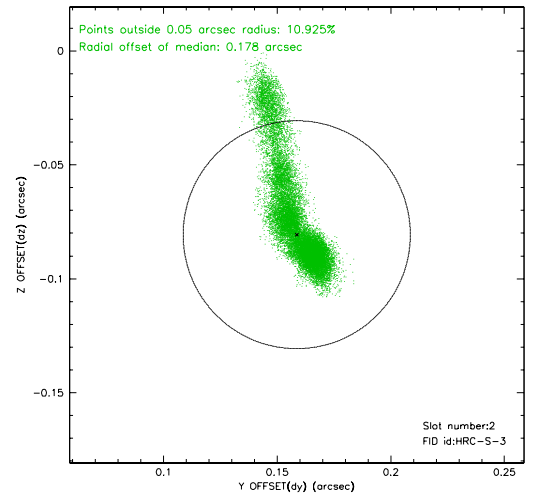
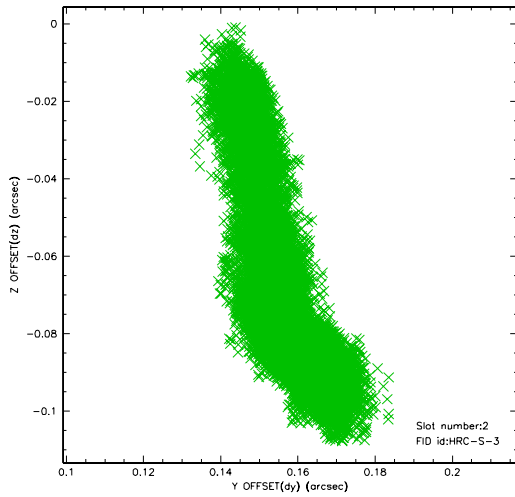
### 2.5.1 Slot 0



## 2.5.2 Slot 1

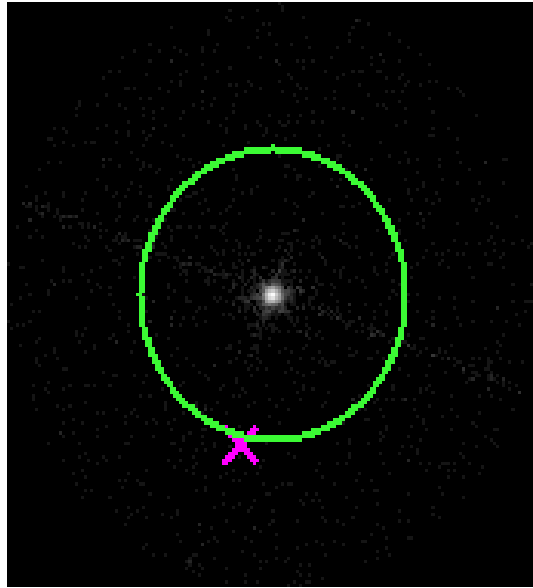


### 2.5.3 Slot 2



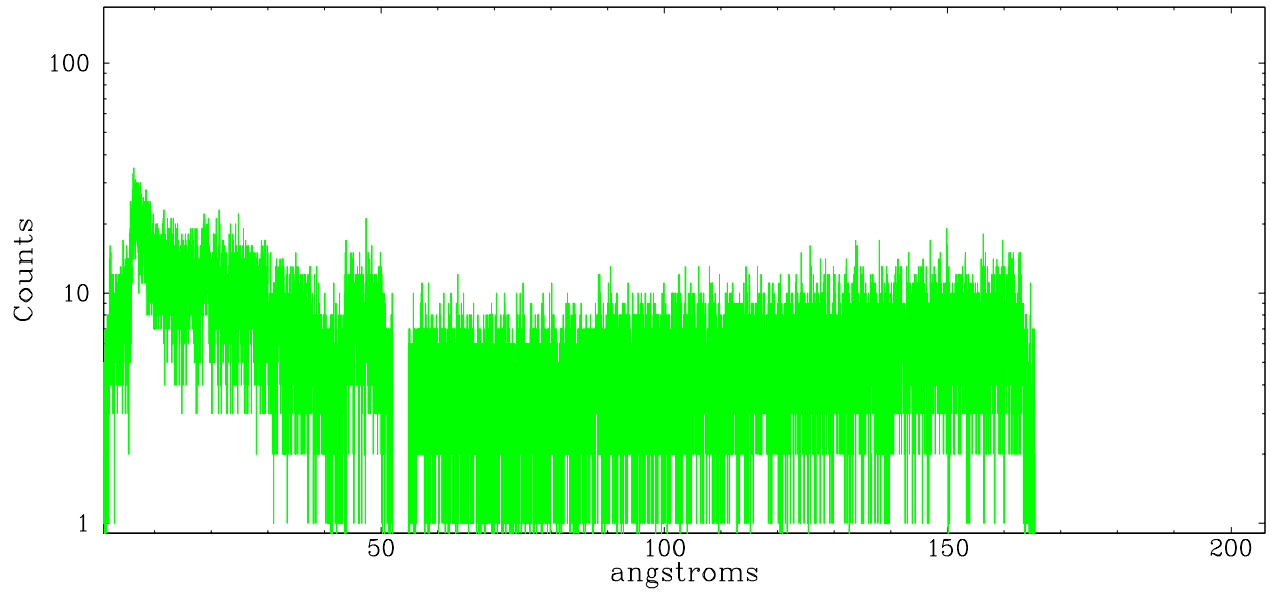
### 3 Gratings

#### 3.1 LETG Arm

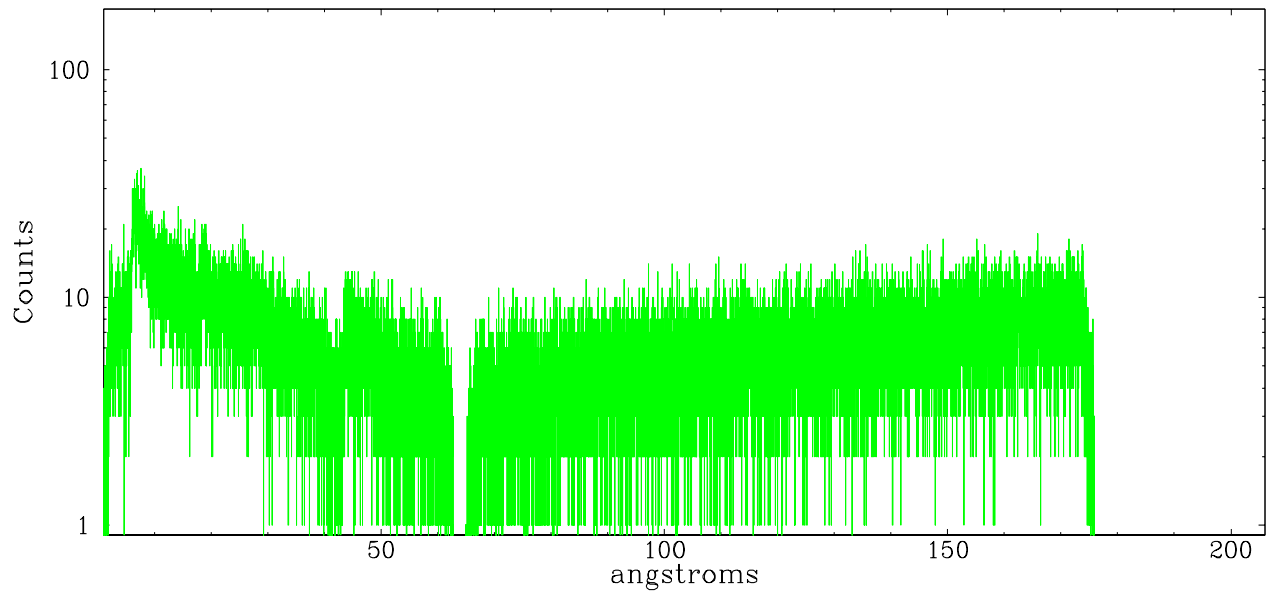


LETG Zero Order

leg order -1



leg order +1



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	78.977

## A.2 Comments

There are several spikes in the count rate in this observation, probably due to a high radiation environment.