

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 368 - L2 Version 5  
Chandra X-Ray Center

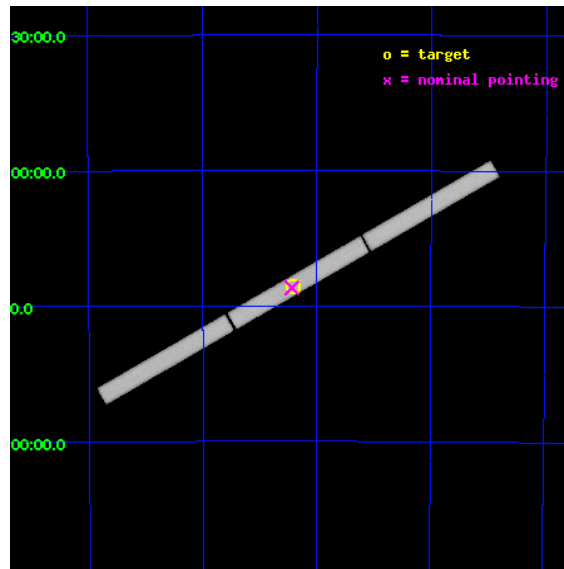
L2 Processing Date : Aug 21 2012

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# 1 Front

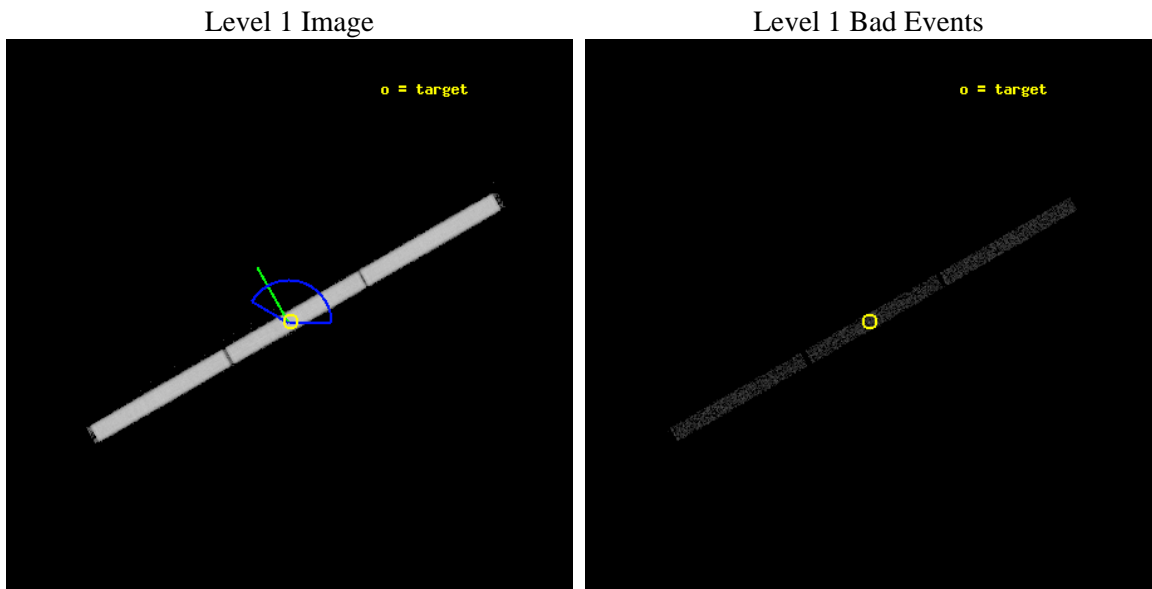
seq_num	500041	Sequence number
obs_id	368	Observation id
title	IS THE NEARBY ISOLATED NEUTRON STAR RXJ 0720.4-3125 A MAGNETAR?	Pr
observer	Prof. Shrinivas Kulkarni	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.10375	Observer's specified target RA [deg]
dec_targ	-31.430806	Observer's specified target Dec [deg]
ra_nom	110.10881473277	Nominal RA [deg]
dec_nom	-31.433733429418	Nominal Dec [deg]
roll_nom	330.17210857521	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5399.443946518	[s]
liveltime	5354.6400418814	Ontime multiplied by DTCOR
l2events	368698	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5099.270000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5399.443946518	[s]
caldbver	4.5.1.1	&#160	l1events	513899	Number of level 1 events
date	2012-08-22T00:45:13	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

Level 1 Events

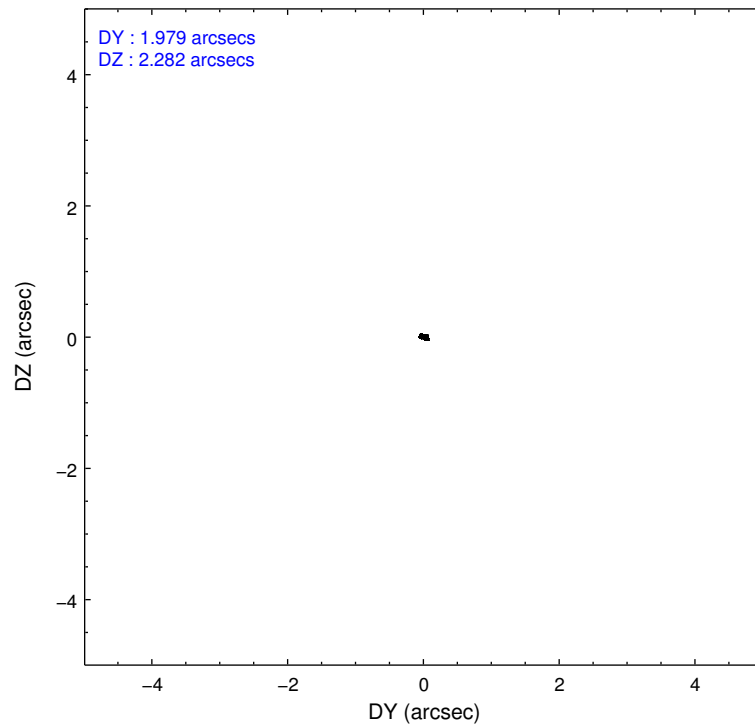
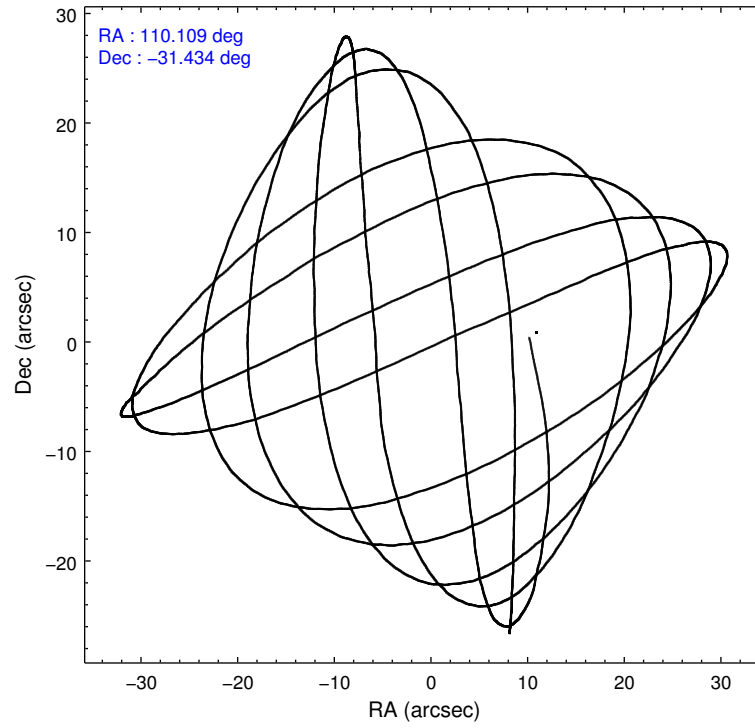
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	176632	169545	167722
rejected events	4431	7483	4201
rejected %	2%	4%	2%

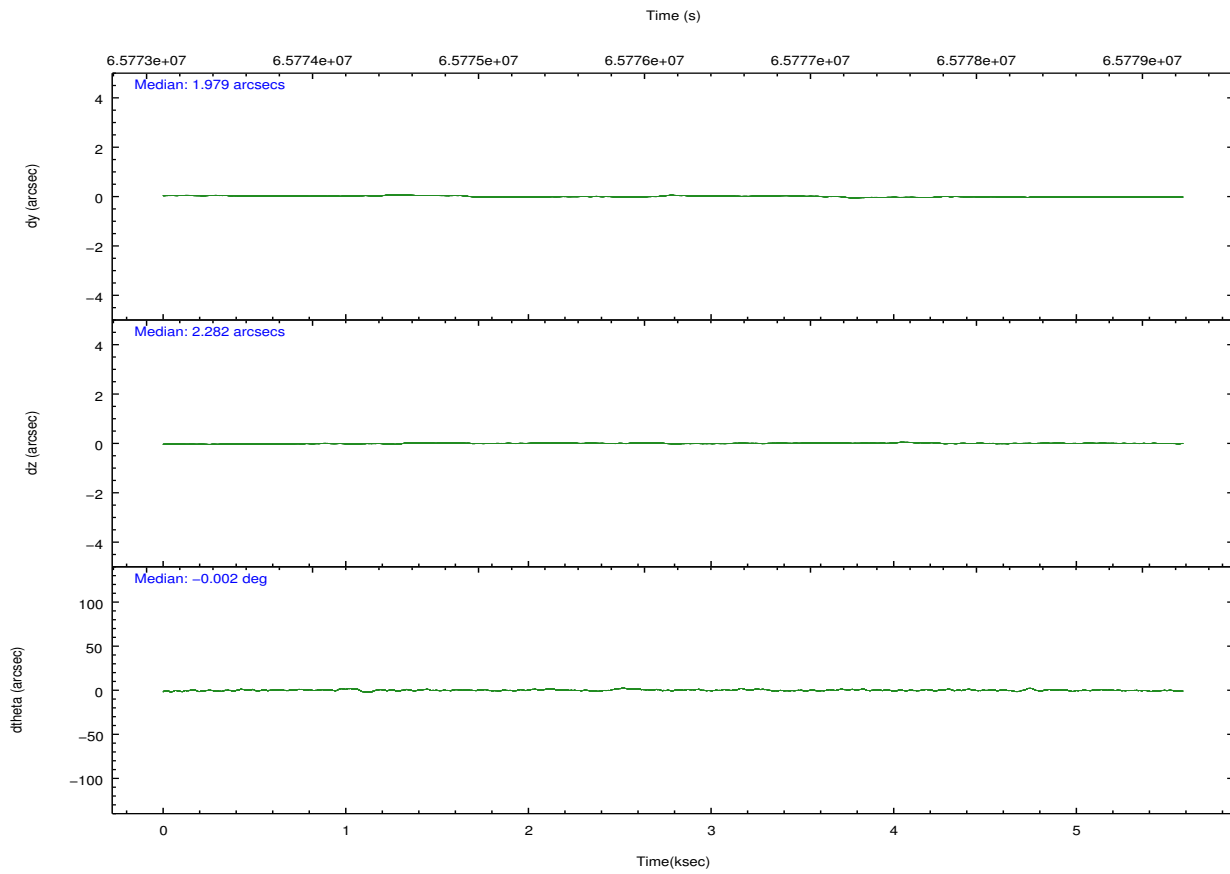
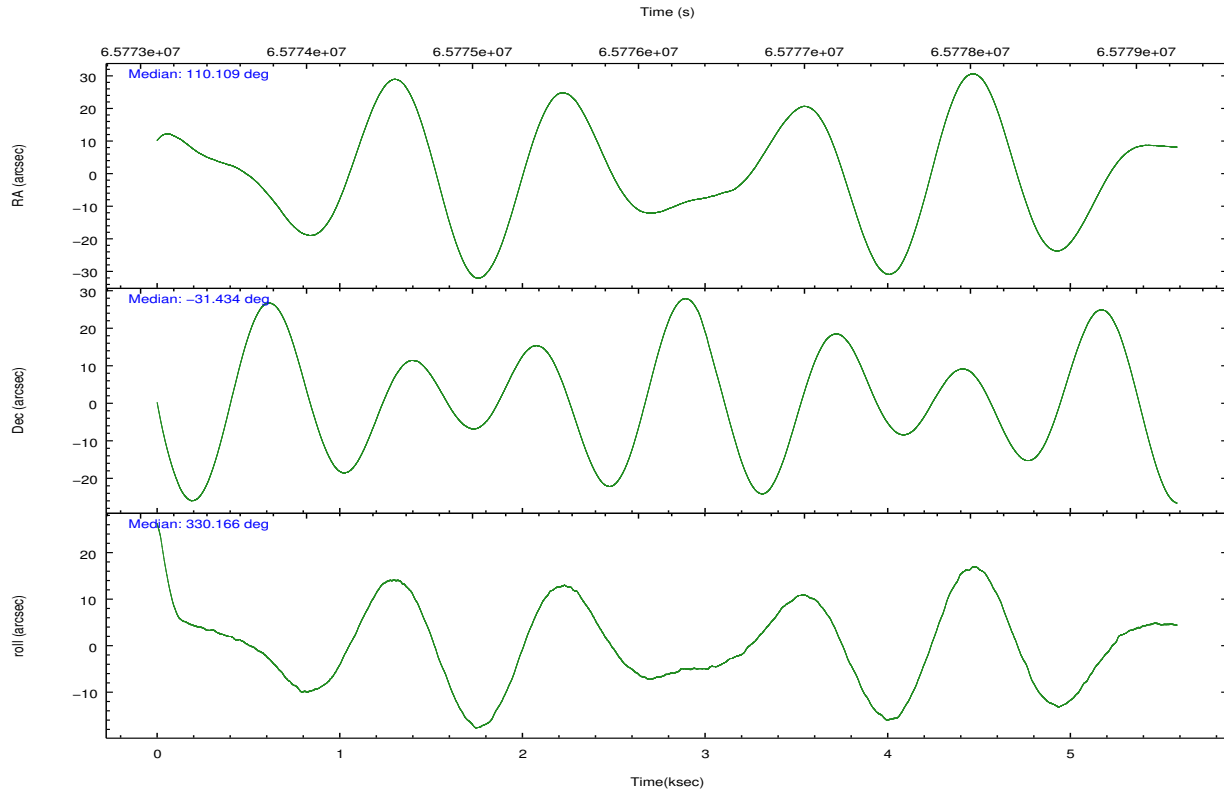
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	LETG	LETG
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	110.074949	110.1088147327738
[deg] Pointing Dec	-31.434749	-31.43373342941764
[deg] Pointing Roll	330.087076	330.1721085752121
[deg] Roll angle	15.000000	15.000000
[deg] Roll tolerance	75.000000	75.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	65773864.184000	65772694.145991
Observation start date	2000-02-01T06:30:00	2000-02-01T06:11:34
[s] Observation end time (MET)	65778963.184000	65779097.321224
Observation end date	2000-02-01T07:54:59	2000-02-01T07:58:17

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



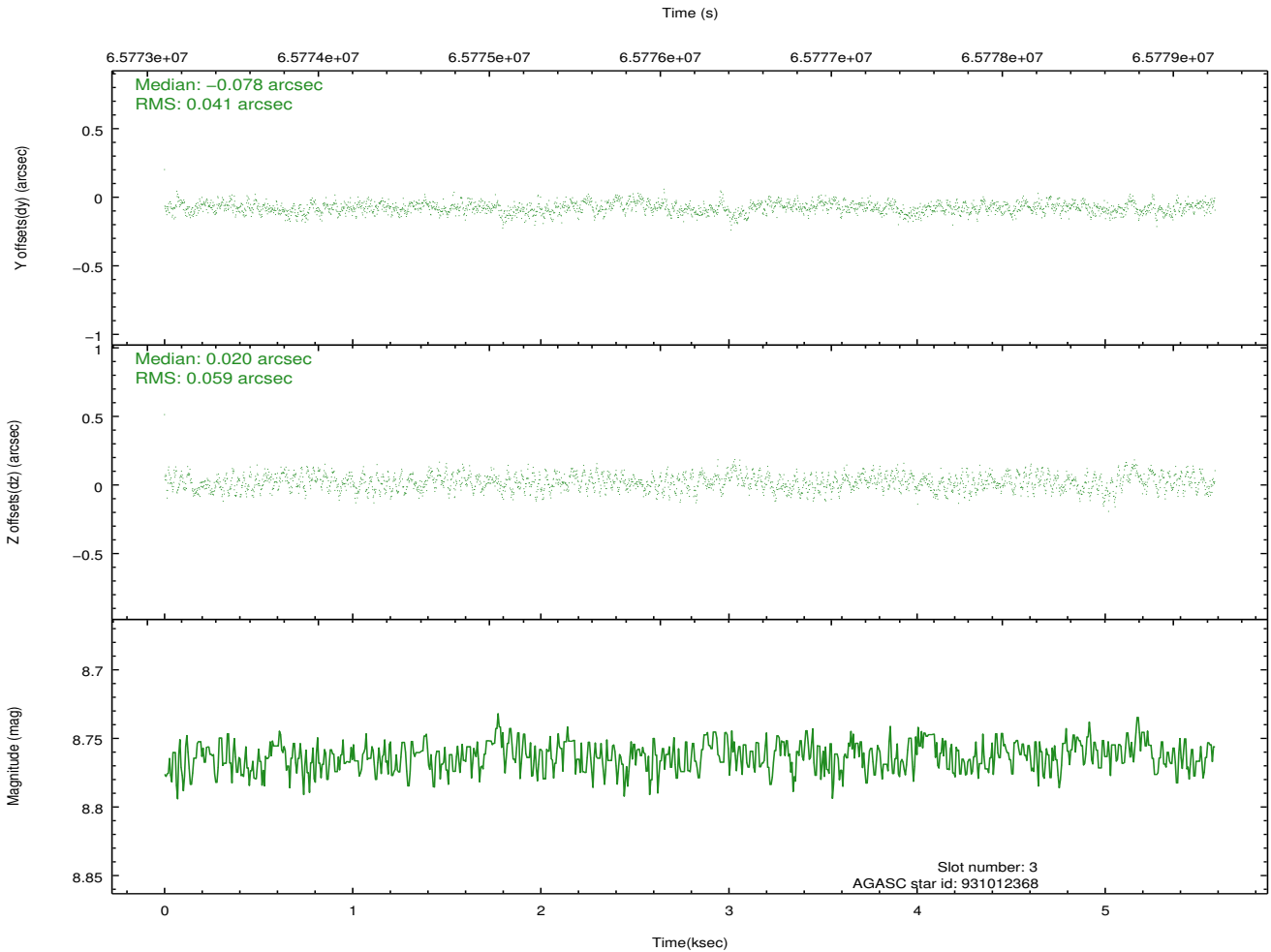
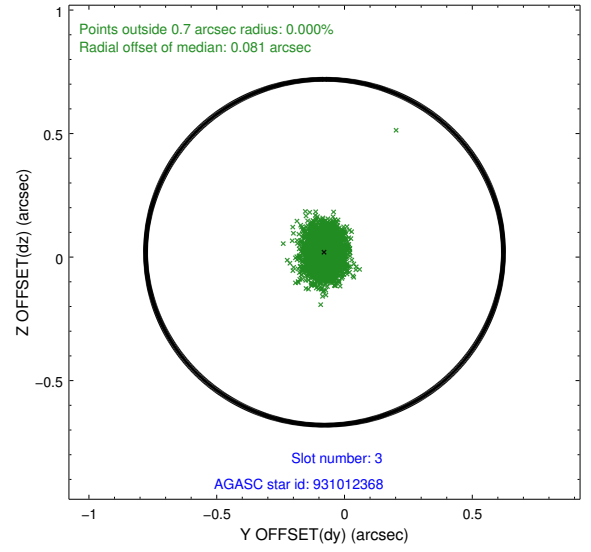
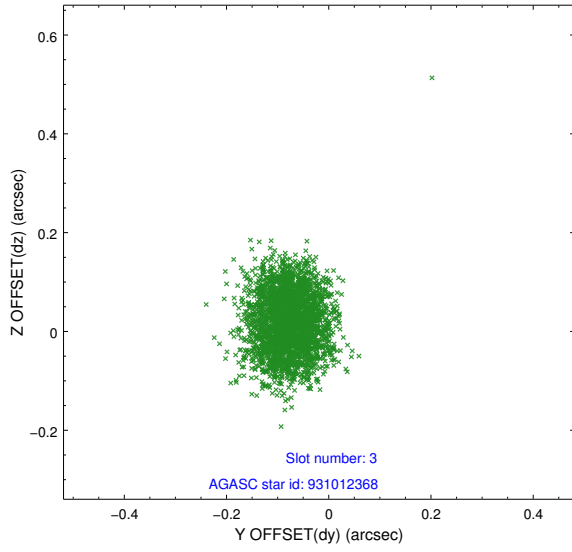


### Slot Statistics

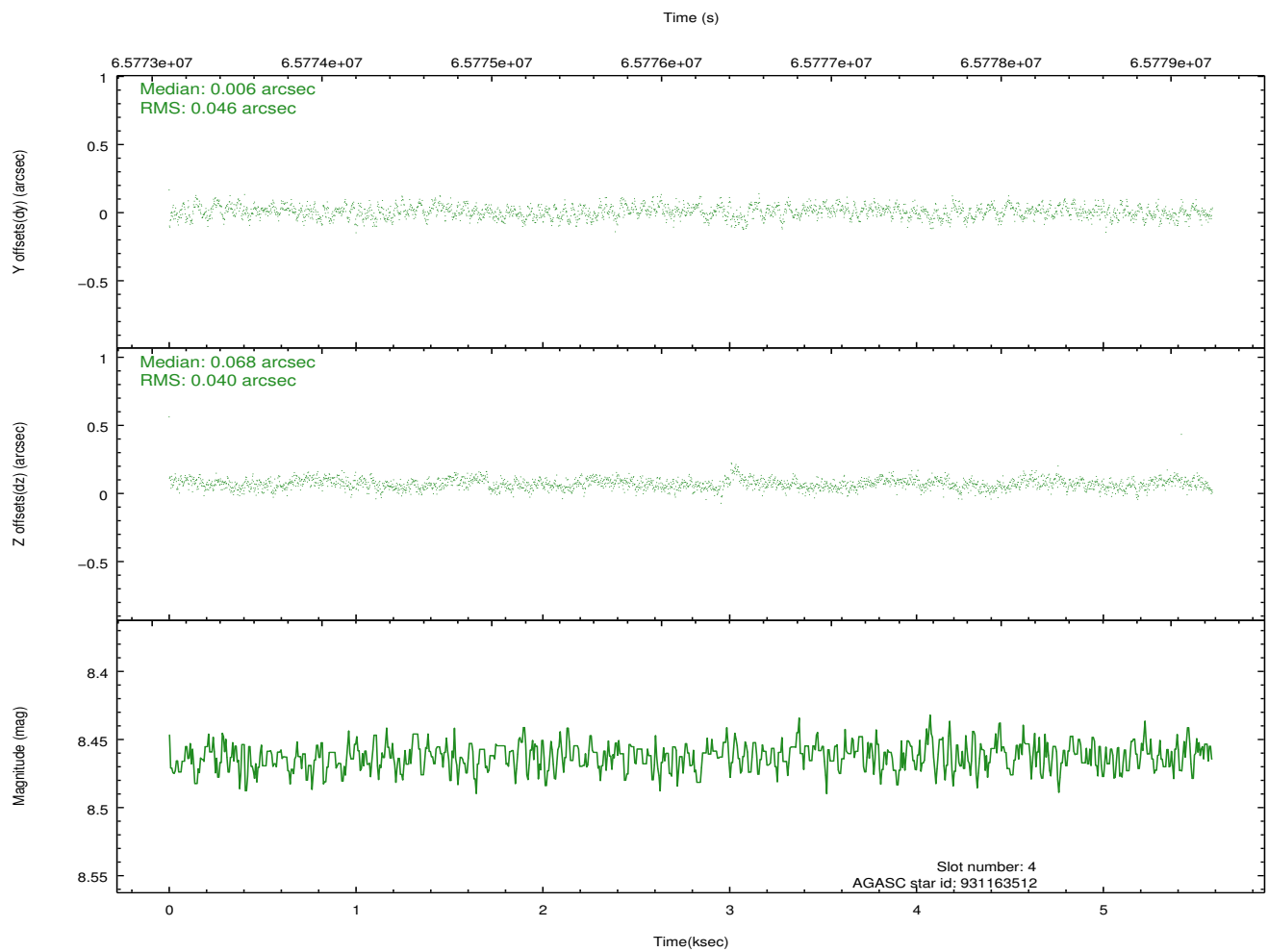
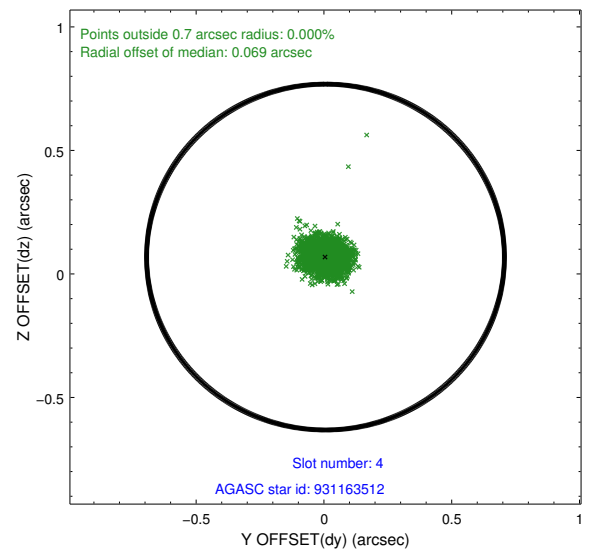
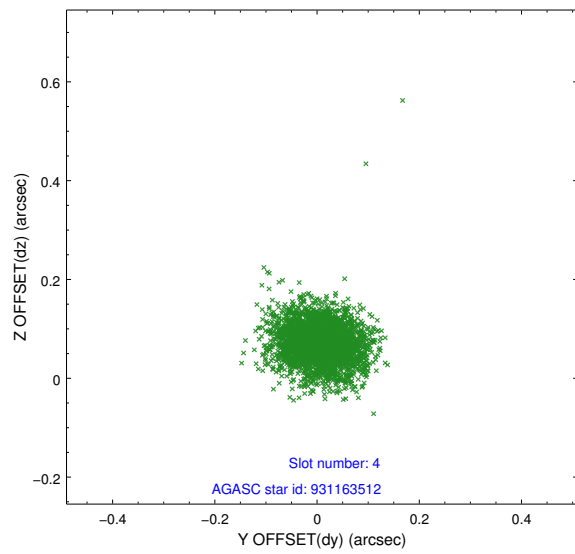
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	1362	0.114	-0.063	0.008	0.016	0.000000	0.000000	-1156.05	-450.60
1	FID	HRC-S-2	7.00	1362	0.150	-0.102	0.006	0.010	0.000000	0.000000	1242.82	-443.67
2	FID	HRC-S-3	7.02	1362	0.127	-0.138	0.009	0.021	0.000000	0.000000	-1157.82	578.53
3	GUIDE	931012368	8.76	2724	-0.078	0.020	0.077	0.119	109.359817	-31.783345	-1267.78	-2185.20
4	GUIDE	931163512	8.46	2725	0.006	0.068	0.064	0.103	110.894384	-31.299941	1946.55	1669.23
5	GUIDE	931005504	9.34	2720	-0.001	0.009	0.083	0.131	109.438314	-31.669733	-1265.59	-1710.17
6	GUIDE	931160352	8.64	2724	-0.080	-0.071	0.076	0.122	110.268138	-30.864891	-506.45	2074.93
7	GUIDE	931166928	9.65	2724	0.152	-0.022	0.089	0.149	110.516751	-31.454886	1213.09	612.47

## 2.4 Star Slots

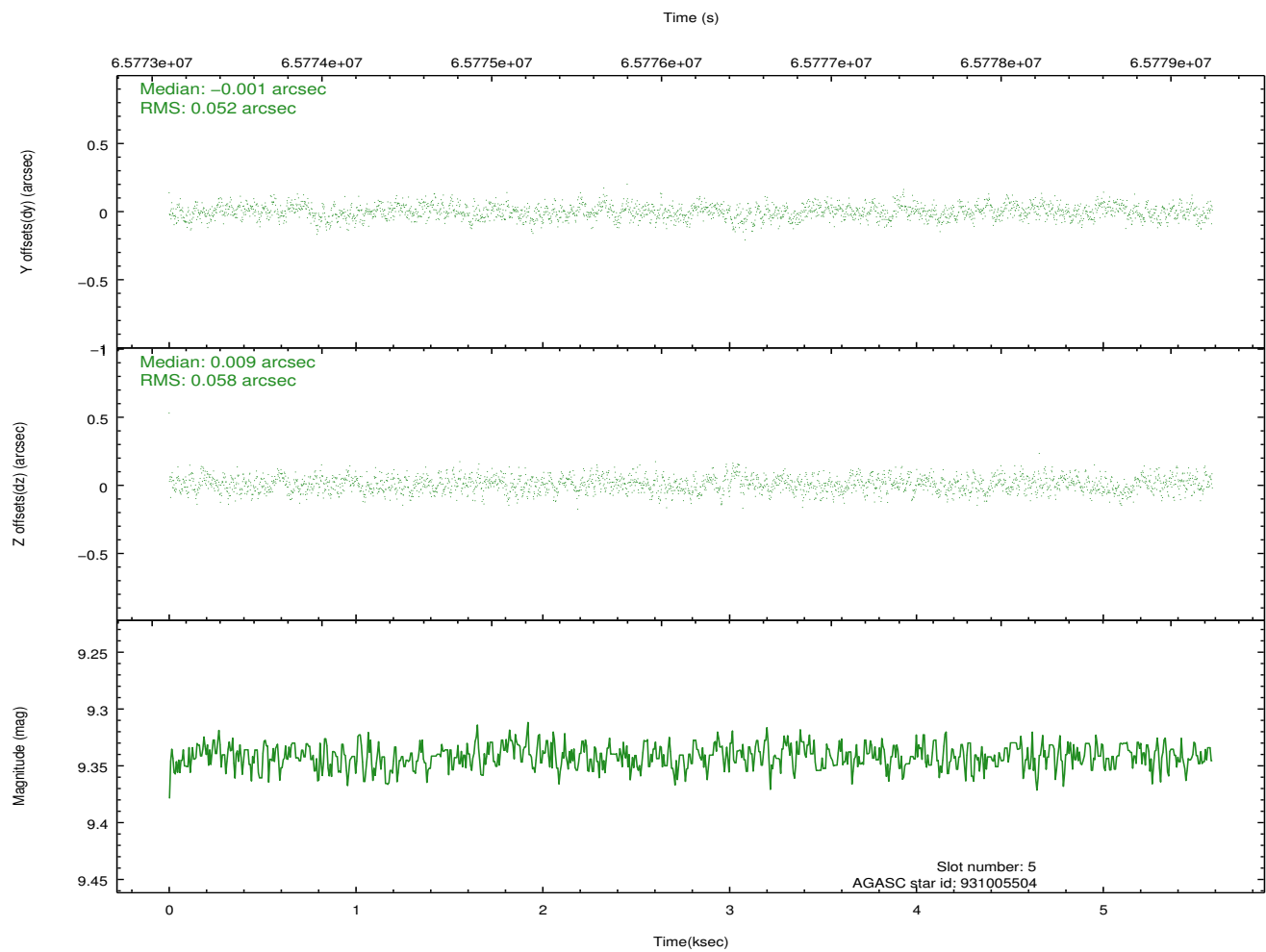
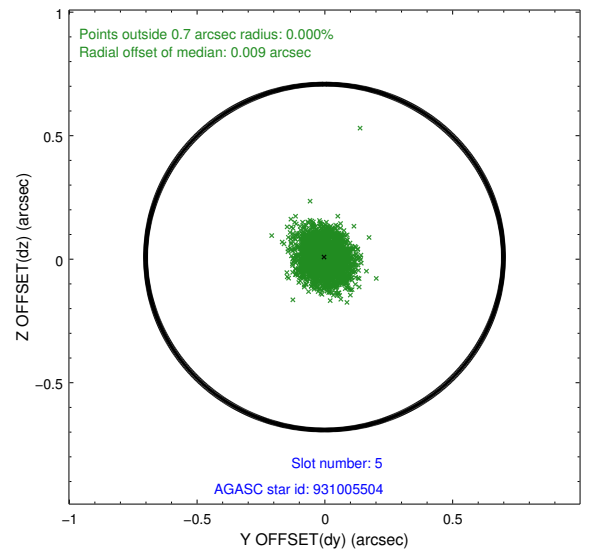
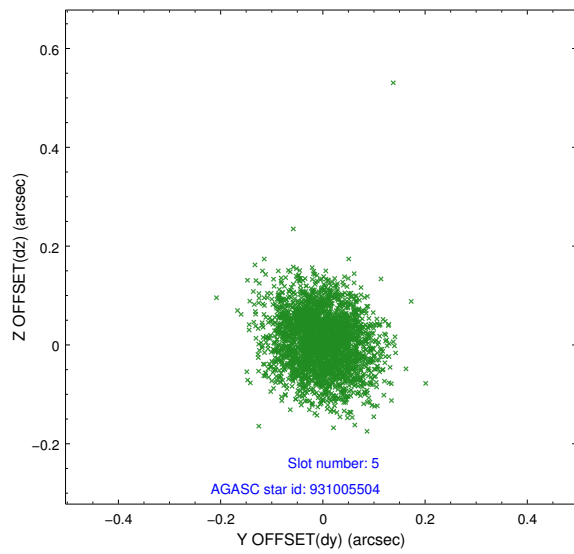
### 2.4.1 Slot 3



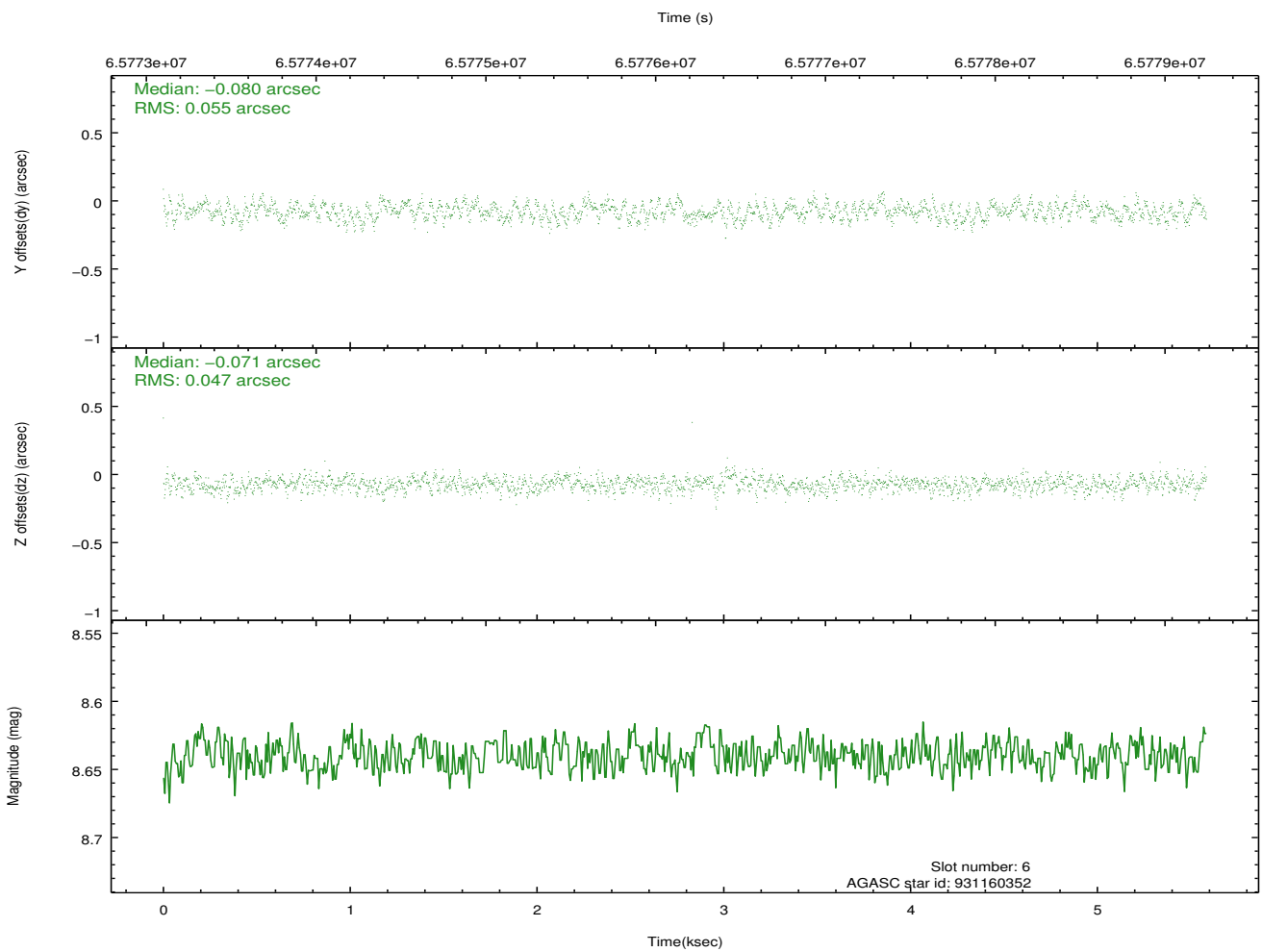
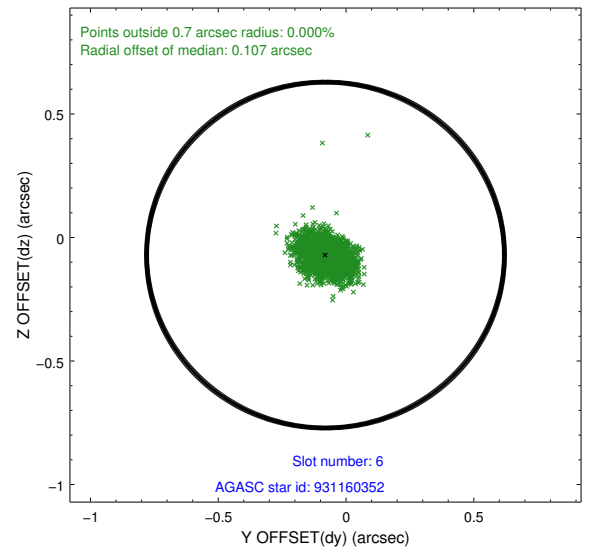
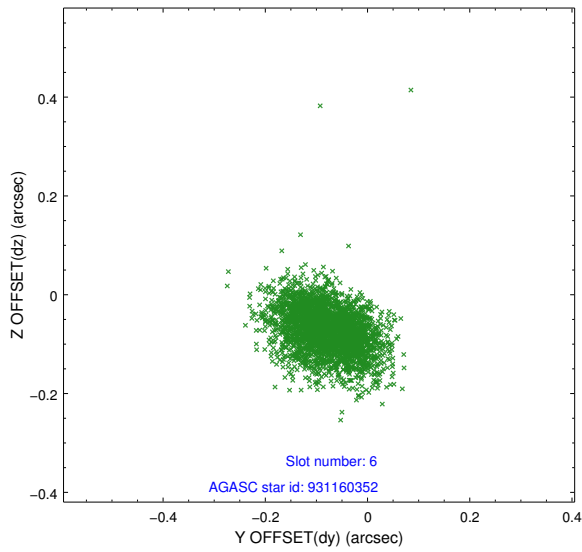
## 2.4.2 Slot 4



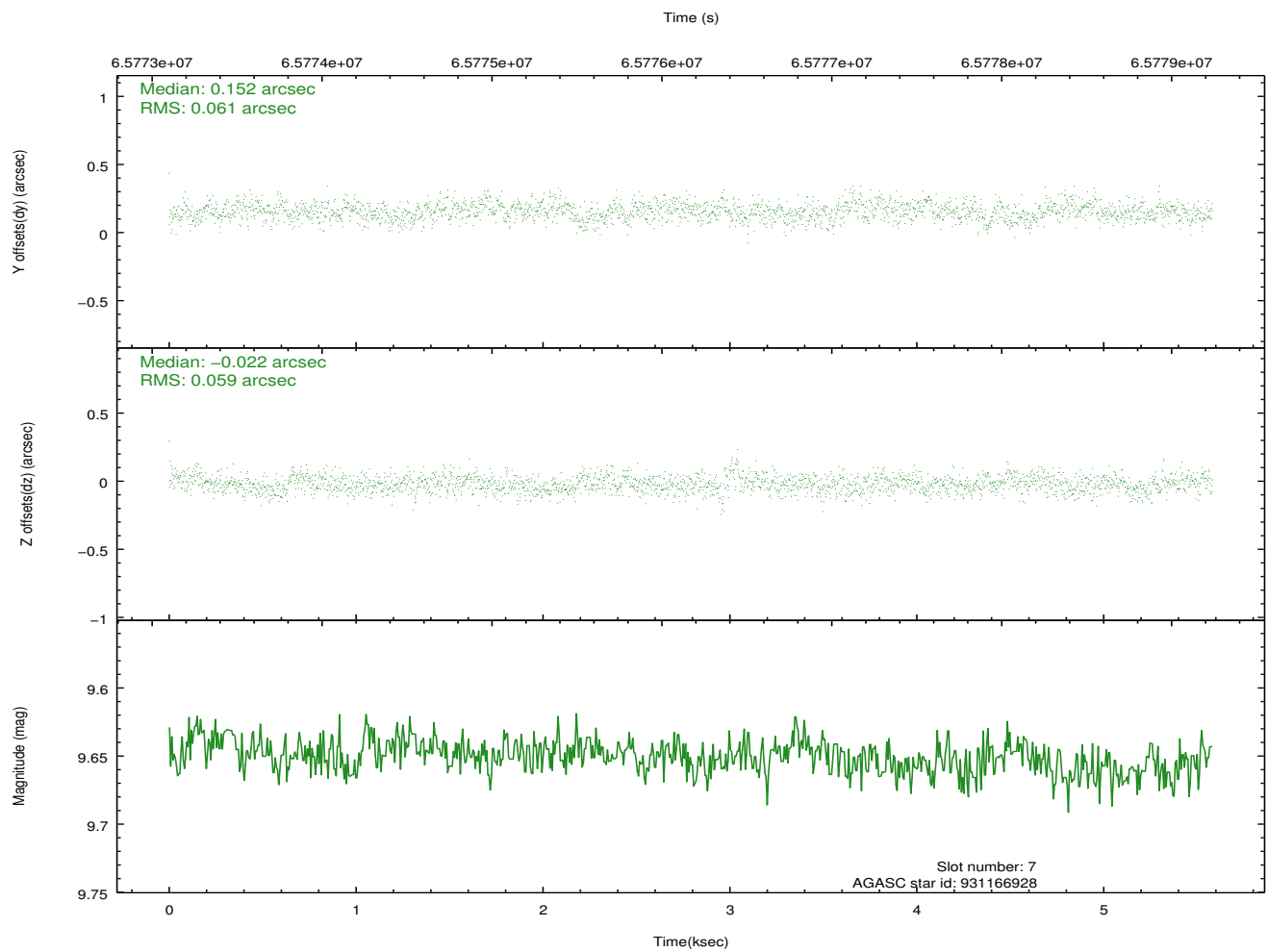
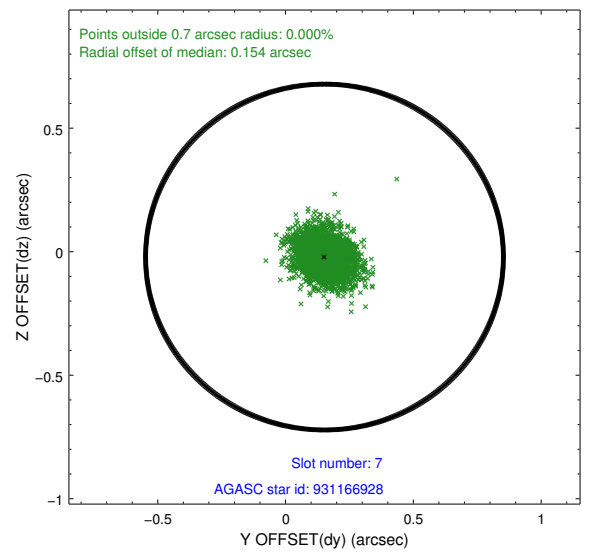
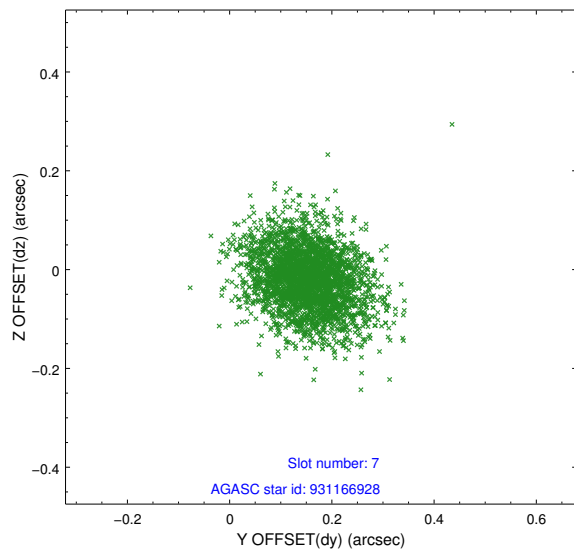
### 2.4.3 Slot 5



## 2.4.4 Slot 6

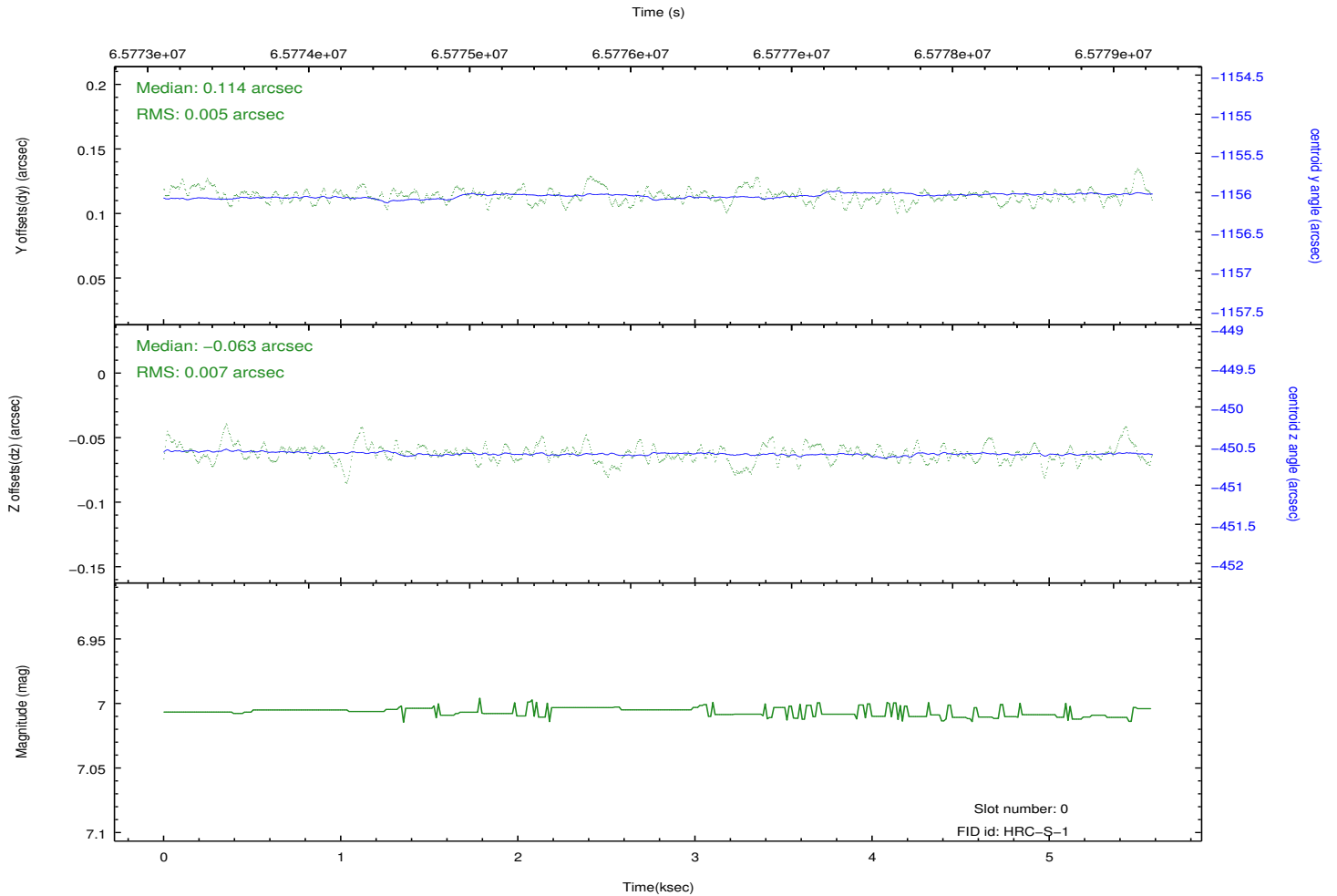
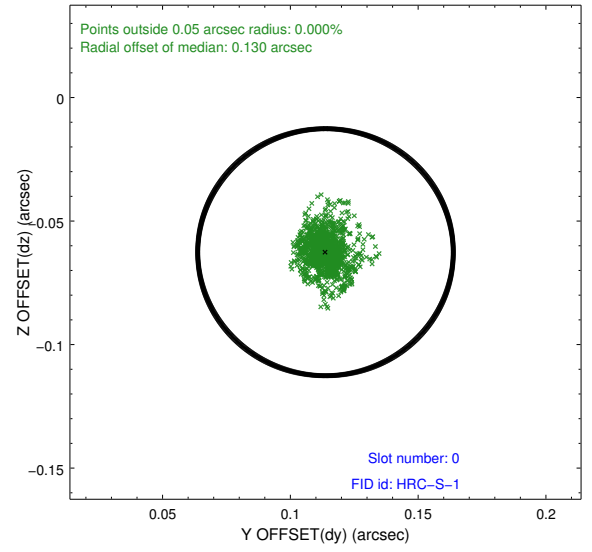
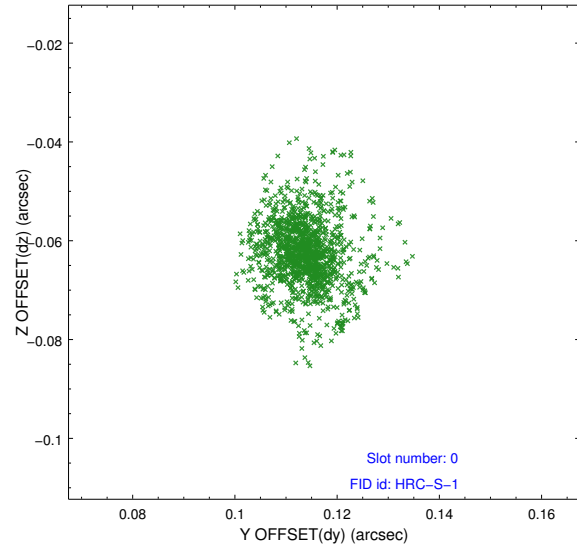


## 2.4.5 Slot 7

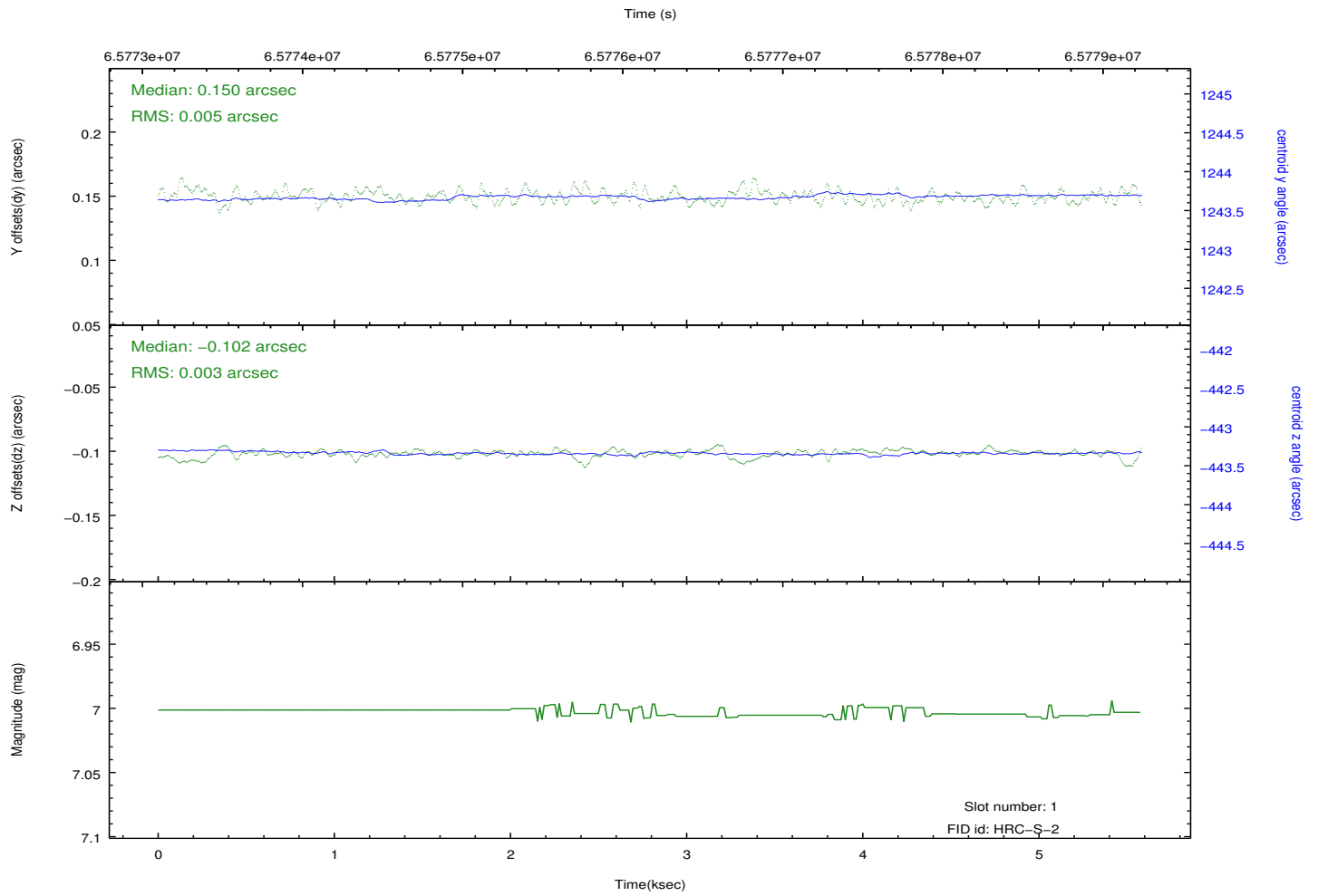
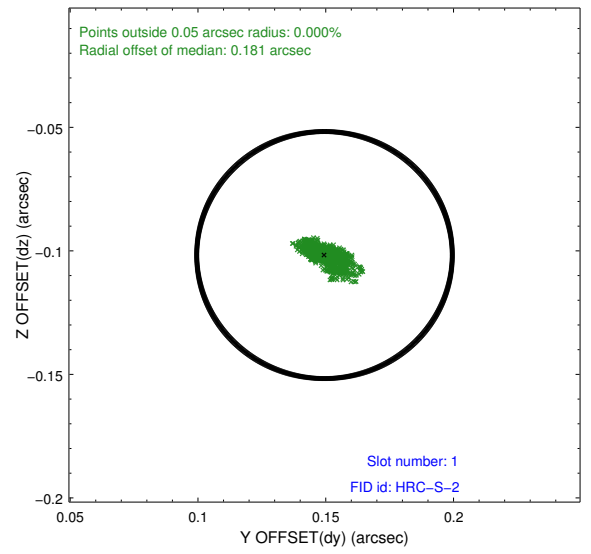
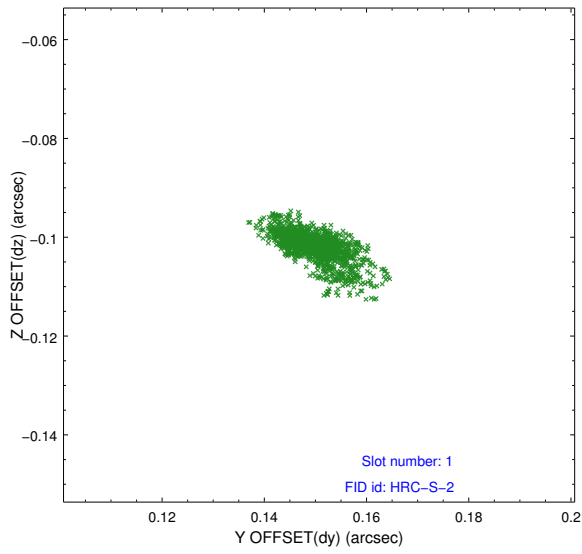


## 2.5 FID Slots

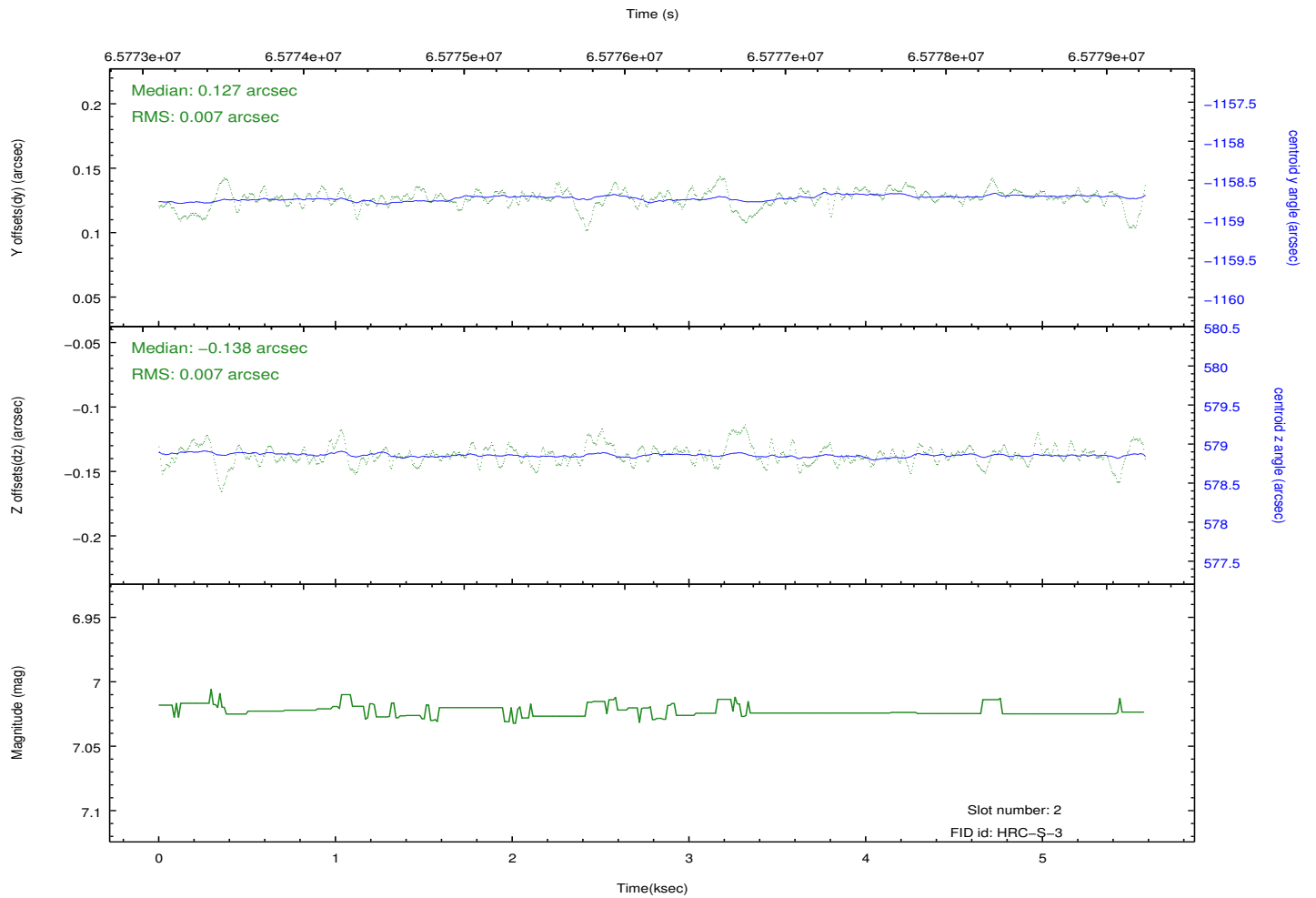
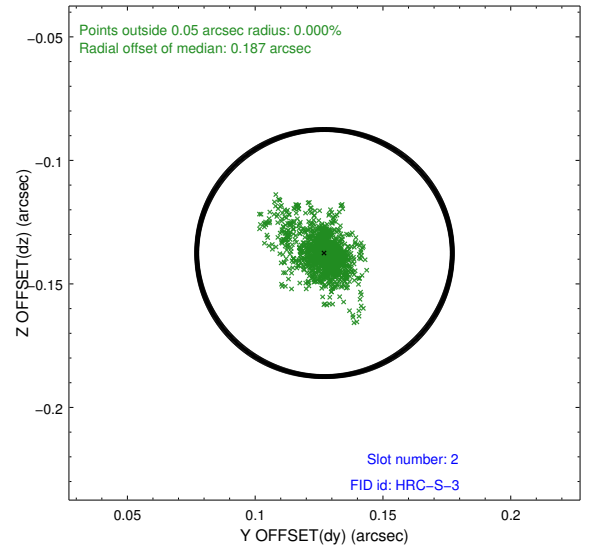
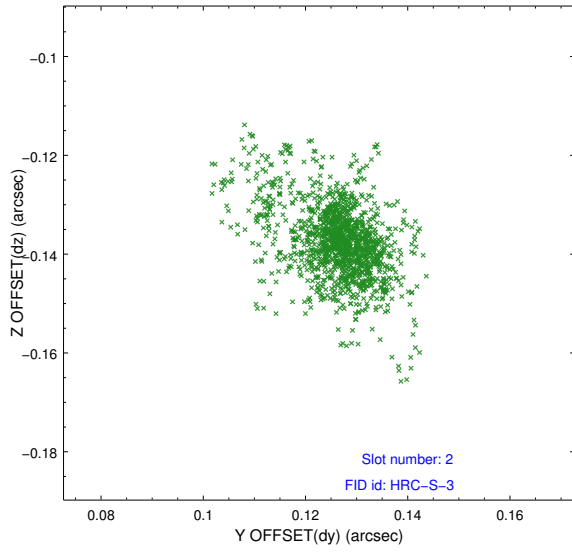
### 2.5.1 Slot 0



## 2.5.2 Slot 1

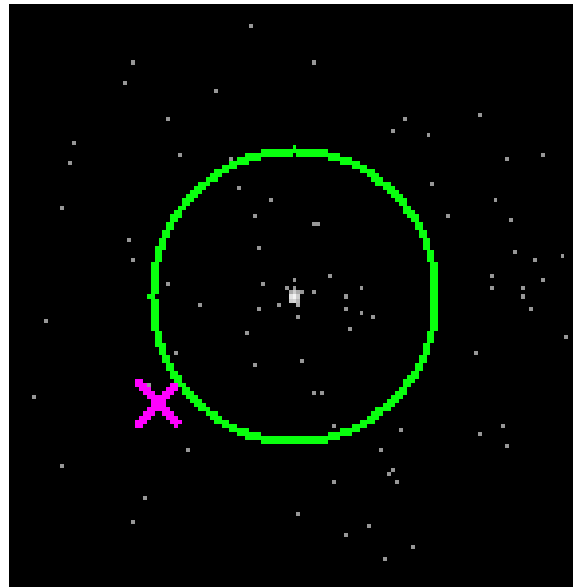


### 2.5.3 Slot 2

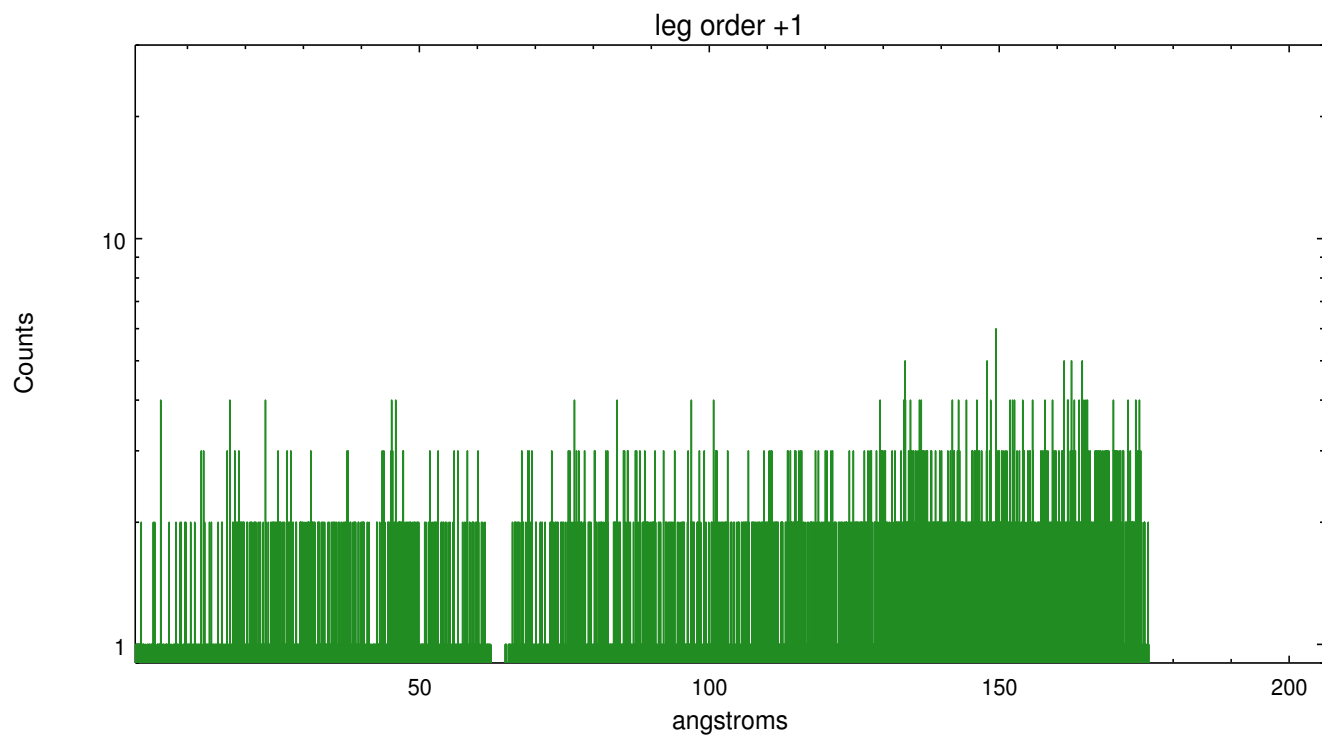
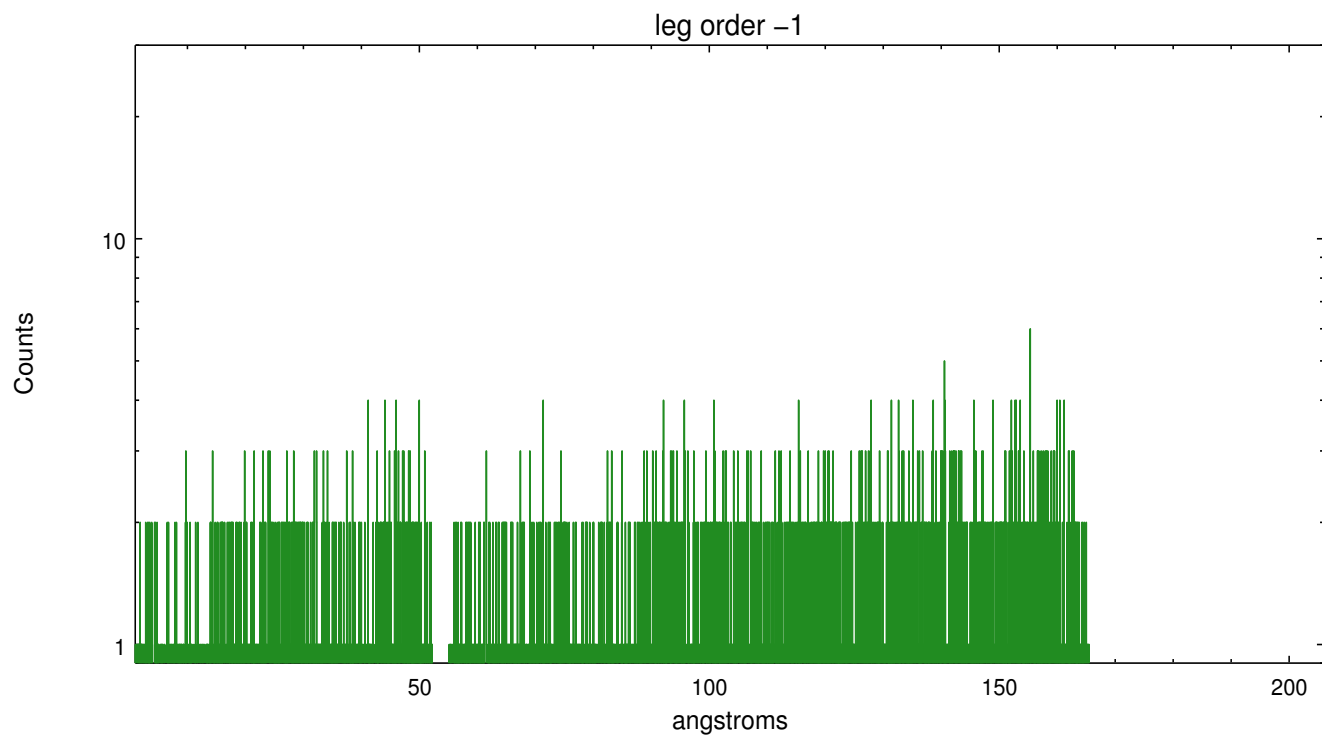


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.397

## A.2 Comments

Roll constraint met.