

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7297 - L2 Version 3  
Chandra X-Ray Center

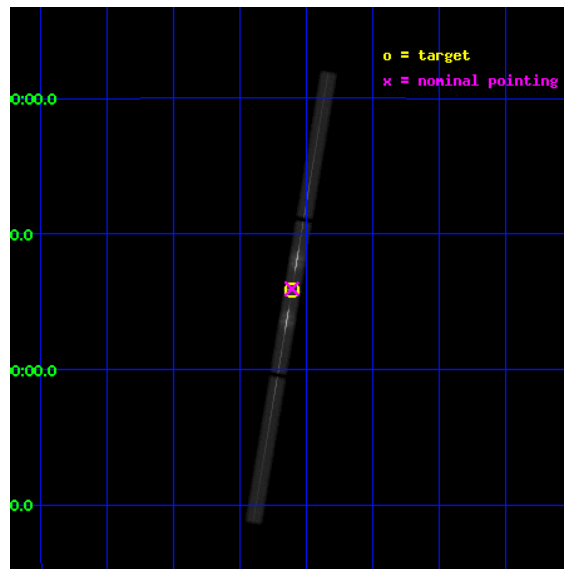
L2 Processing Date : Aug 11 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>3</b>	<b>Gratings</b>	<b>17</b>
3.1	LETG Arm . . . . .	17
<b>A</b>	<b>Summary</b>	<b>19</b>
A.1	Status . . . . .	19
A.2	Comments . . . . .	19

# 1 Front

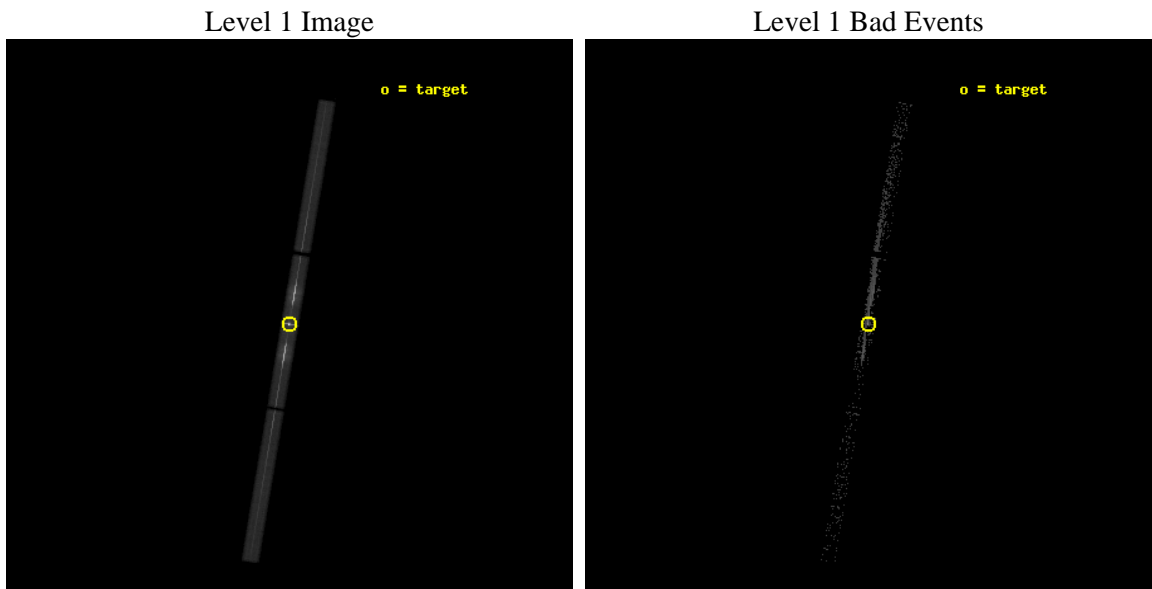
seq_num	300178	Sequence number
obs_id	7297	Observation id
title	CHANDRA Observations of RS Oph a Recurrent Symbiotic Nova in Outburst	Proposal title
observer	Regents' Professor Sumner Starrfield	Principal investigator
object	RS Oph	Source name
ra_targ	267.555	Observer's specified target RA [deg]
dec_targ	-6.707917	Observer's specified target Dec [deg]
ra_nom	267.55442856027	Nominal RA [deg]
dec_nom	-6.7031466925446	Nominal Dec [deg]
roll_nom	99.536220530362	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9505.0816932619	[s]
livetime	6464.4072255948	Ontime multiplied by DTCOR
l2events	1590722	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	9360.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9505.0816932619	[s]
caldsver	4.5.1.1	&#160	l1events	1923026	Number of level 1 events
date	2012-08-11T06:36:34	Date and time of file creation			
revision	3	Processing version of data			

## 2.1.3 Events

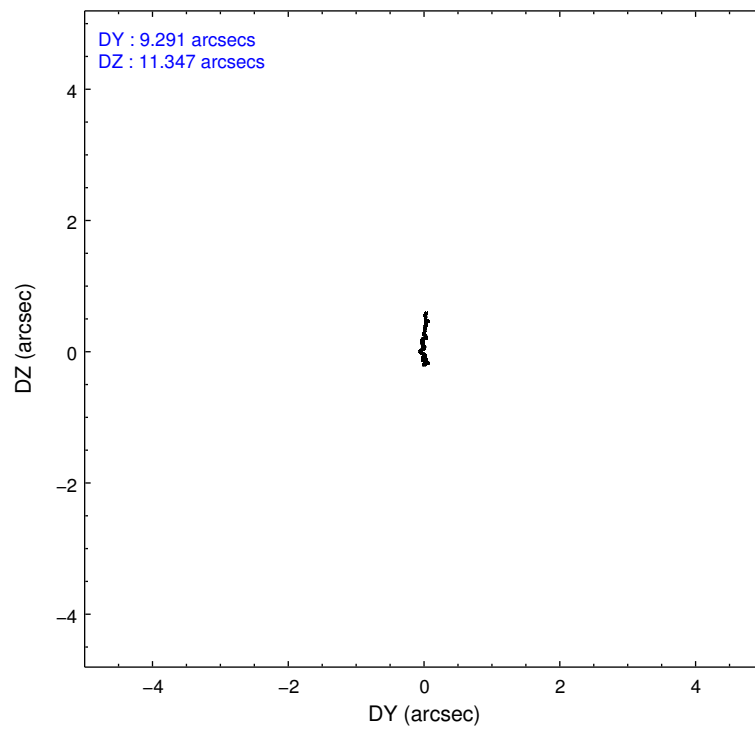
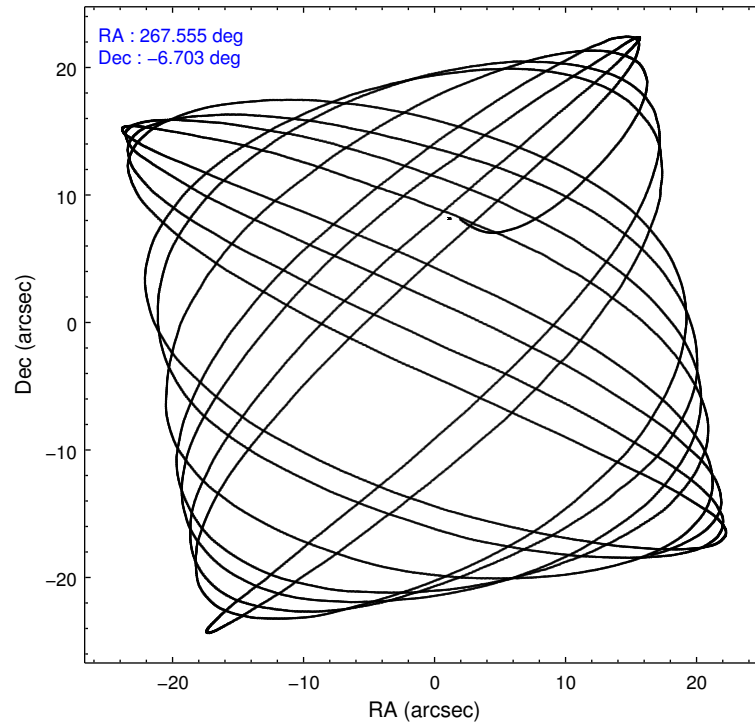
### Level 1 Events

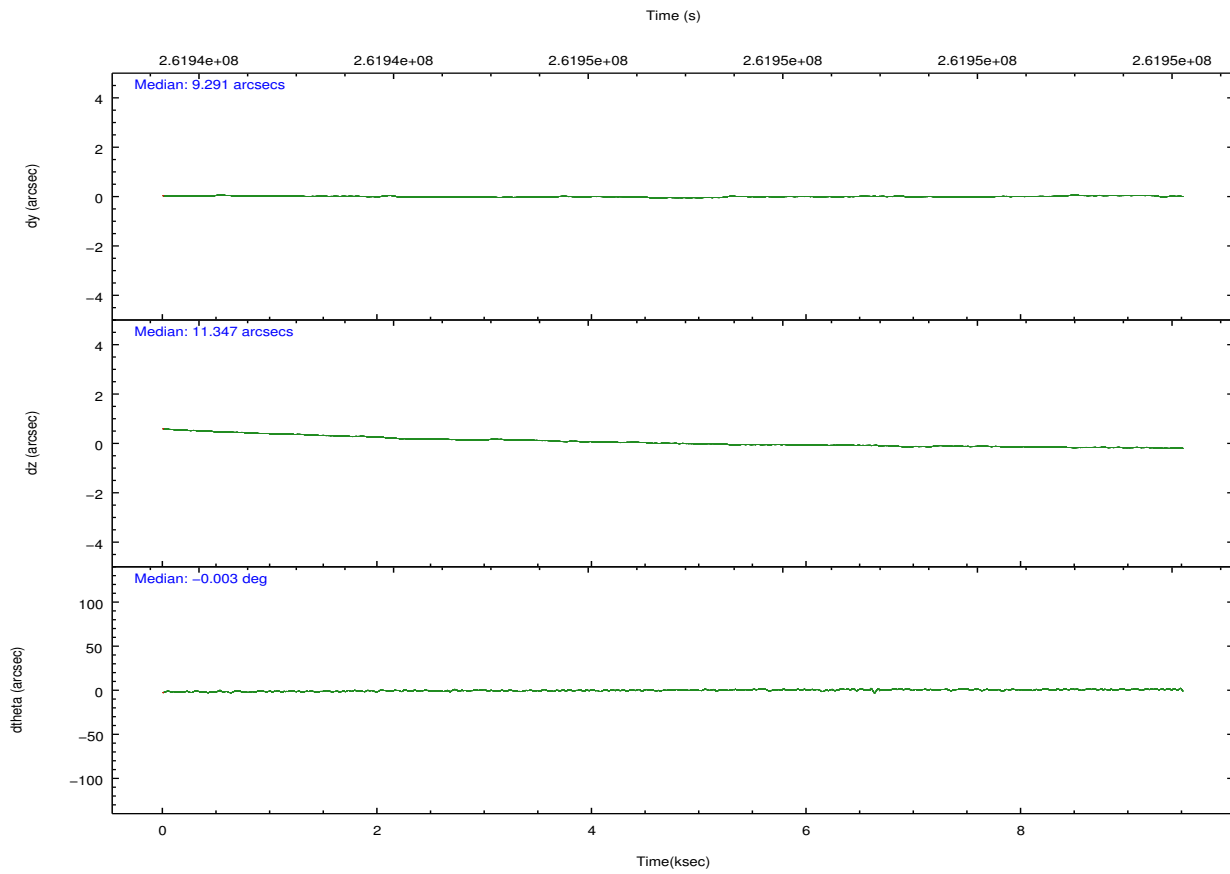
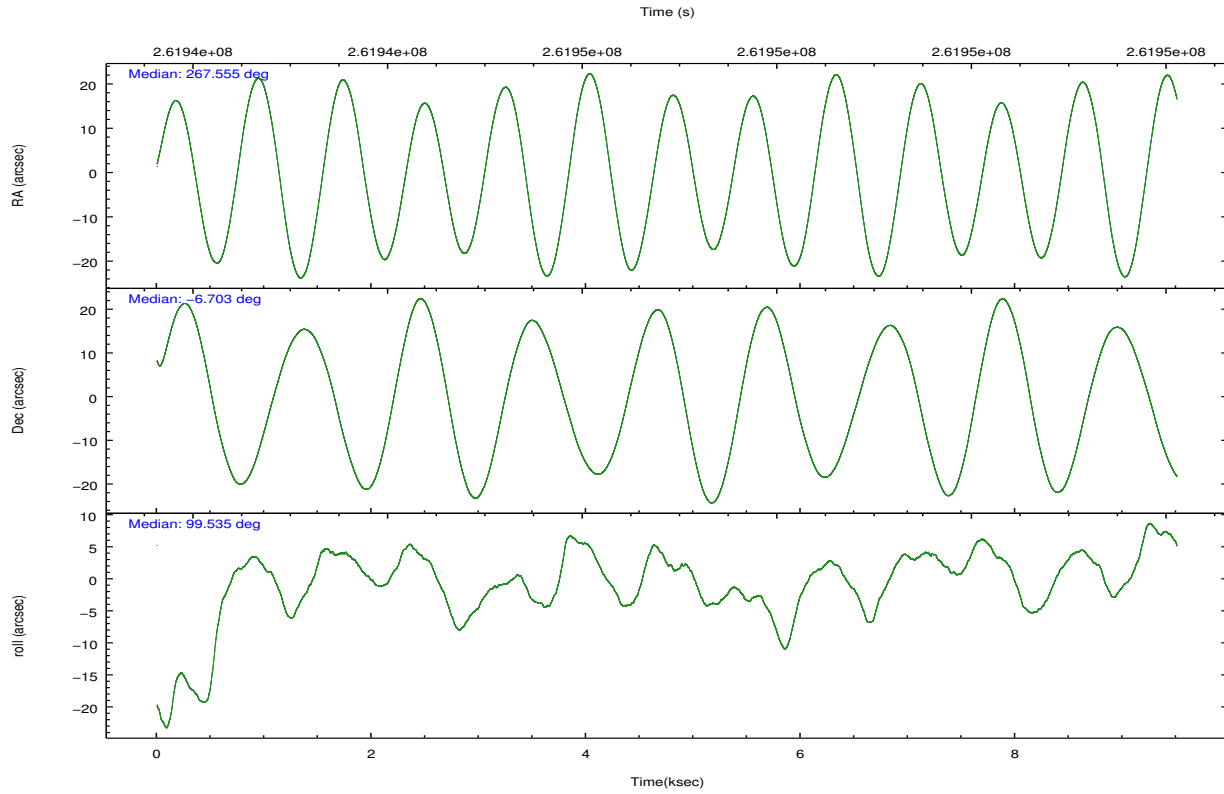
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	284374	1345427	293225
rejected events	44711	77841	47829
rejected %	15%	5%	16%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	267.573764	267.5544285602713			
[deg] Pointing Dec	-6.724412	-6.703146692544648			
[deg] Pointing Roll	99.471139	99.53622053036203			
[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)	261942266.184000	261941093.33146			
Observation start date	2006-04-20T17:43:21	2006-04-20T17:24:53			
[s] Observation end time (MET)	261951626.184000	261952077.74447			
Observation end date	2006-04-20T20:19:21	2006-04-20T20:27:57			

## 2.3 Aspect





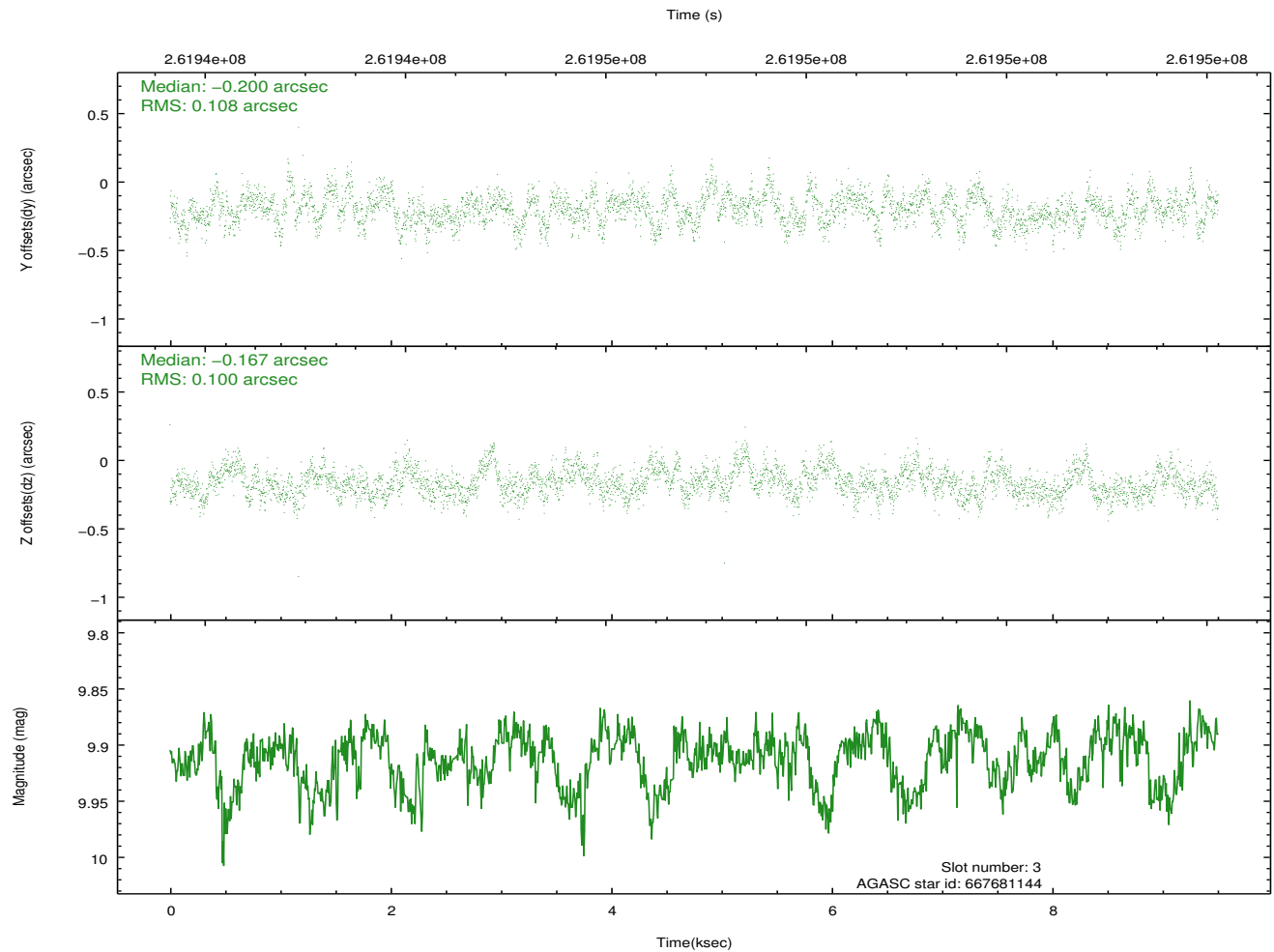
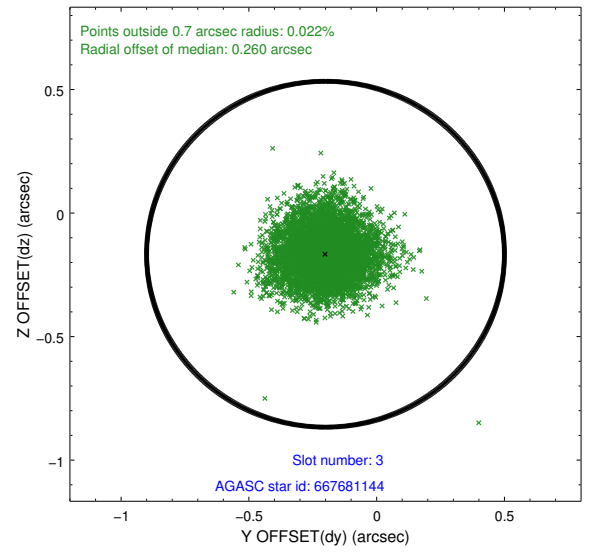
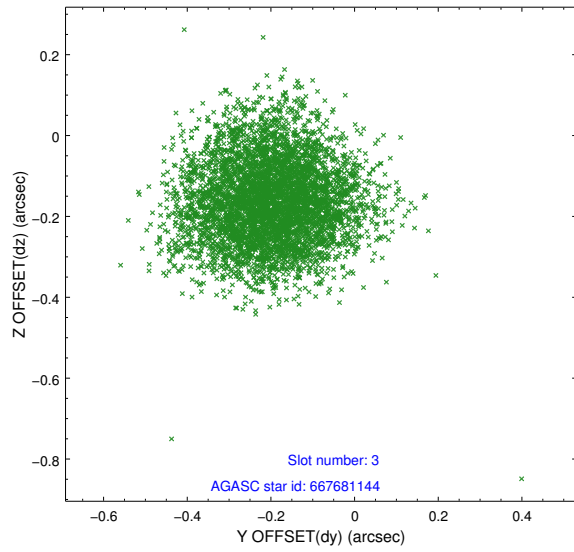
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	2319	0.140	-0.164	0.011	0.018	0.000000	0.000000	-1163.49	-460.15
1	FID	HRC-S-2	7.03	2319	0.147	-0.112	0.008	0.018	0.000000	0.000000	1235.70	-452.94
2	FID	HRC-S-3	7.04	2319	0.103	-0.026	0.010	0.020	0.000000	0.000000	-1165.71	569.32
3	GUIDE	667681144	9.91	4633	-0.200	-0.167	0.158	0.249	267.013326	-6.291734	1864.71	1722.51
4	BAD	667681352	10.47	4181	-0.248	-0.201	0.261	0.421	267.279458	-7.168186	-1404.70	1301.82
5	GUIDE	667681504	9.65	4633	0.296	0.228	0.138	0.224	267.752861	-6.895149	-712.50	-529.47
6	GUIDE	667683168	9.35	4629	0.327	0.159	0.116	0.184	267.624316	-7.281951	-2009.88	152.85
7	GUIDE	667681872	9.48	4615	-0.193	-0.038	0.147	0.236	267.641810	-6.050285	2351.92	-638.72

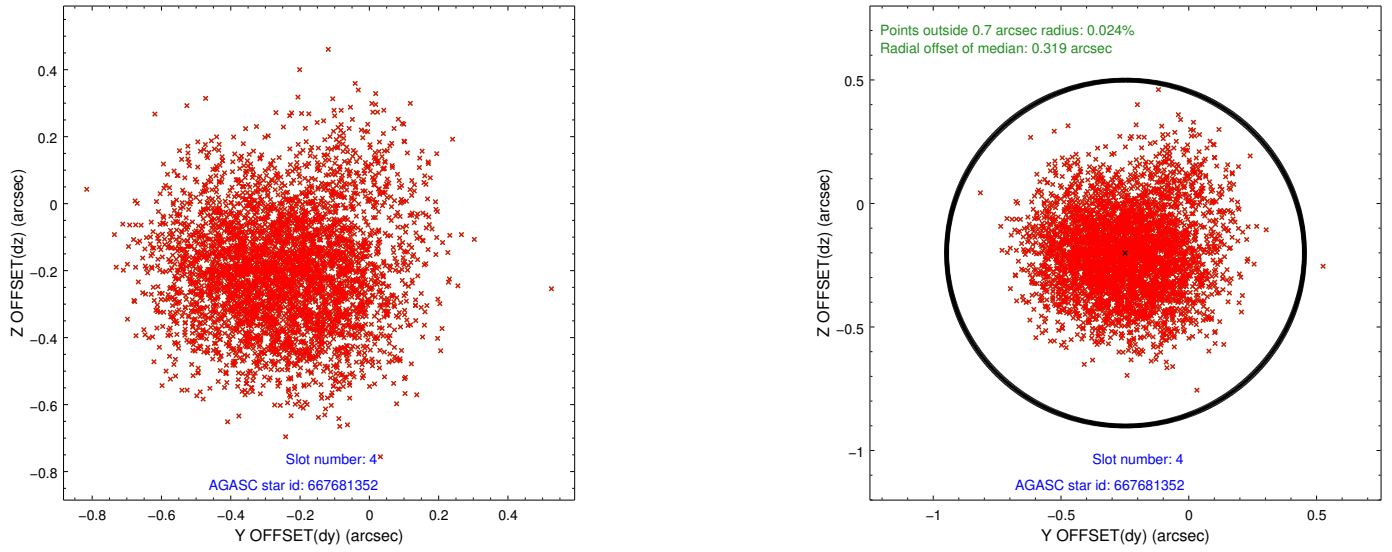
∞

## 2.4 Star Slots

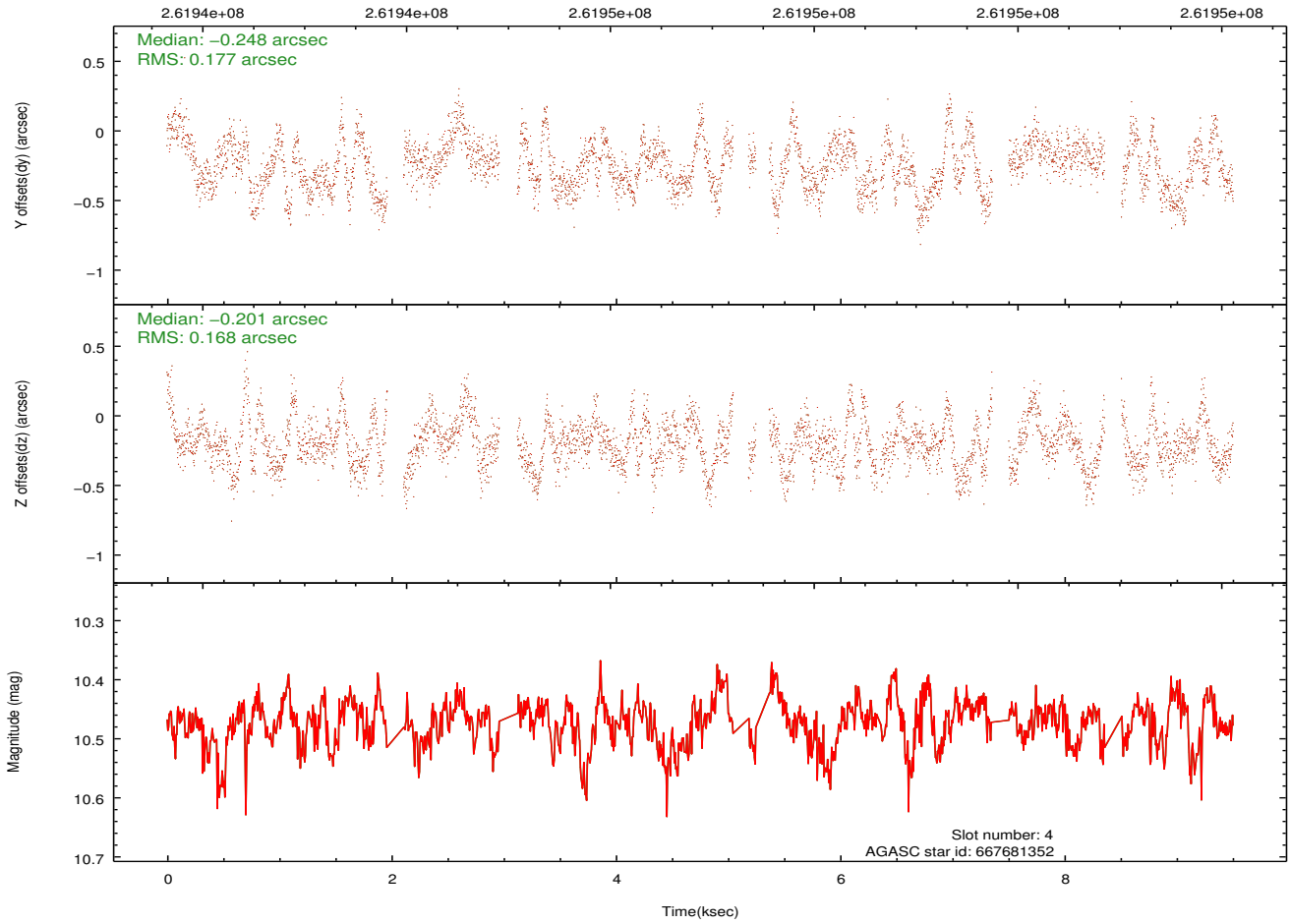
### 2.4.1 Slot 3



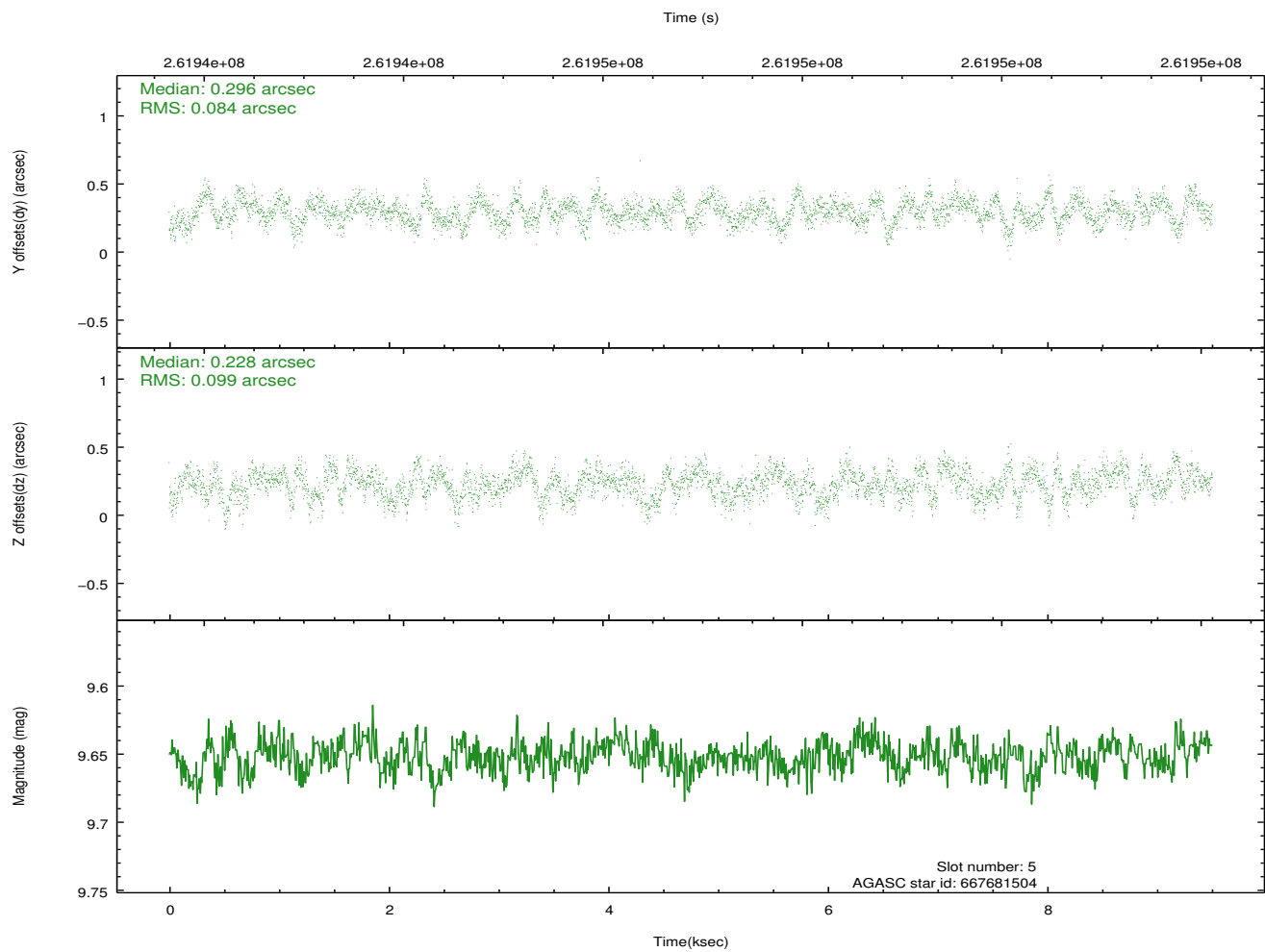
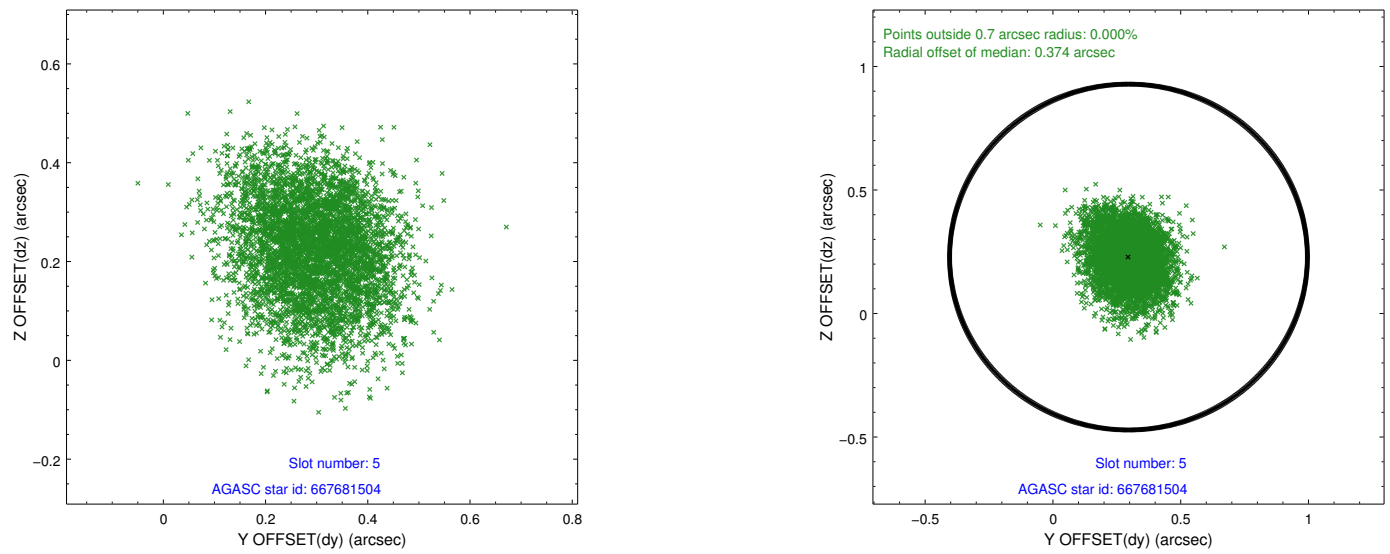
## 2.4.2 Slot 4



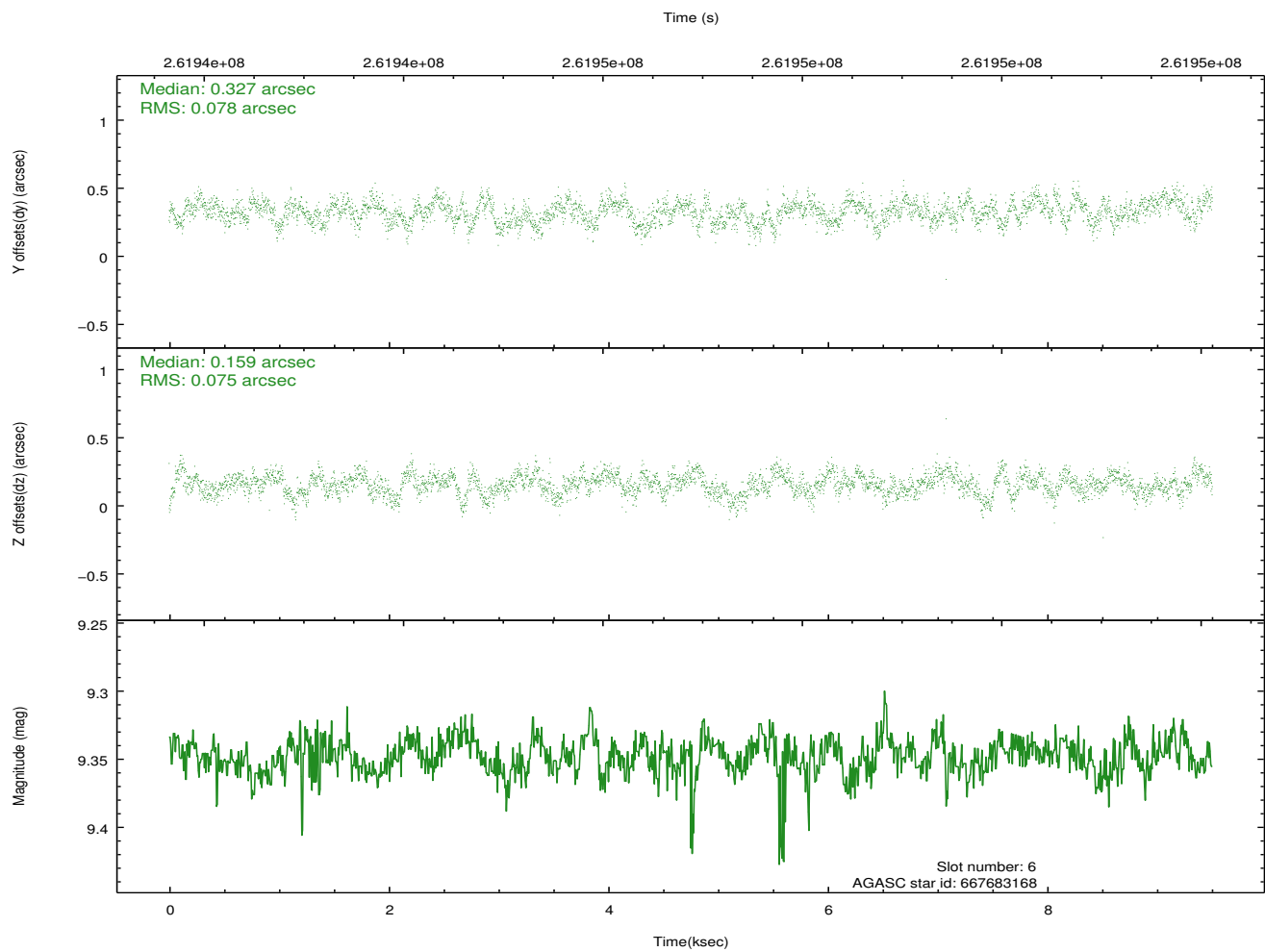
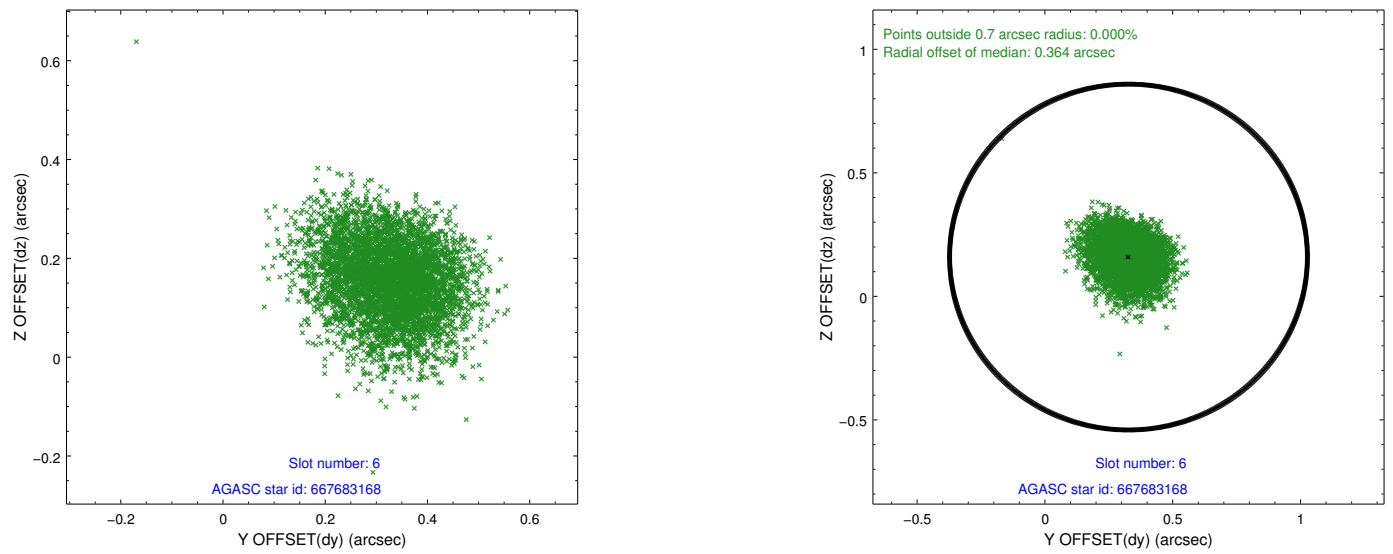
Time (s)



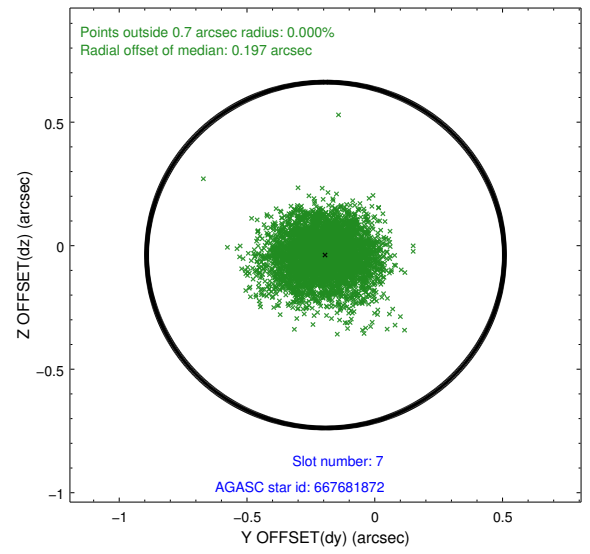
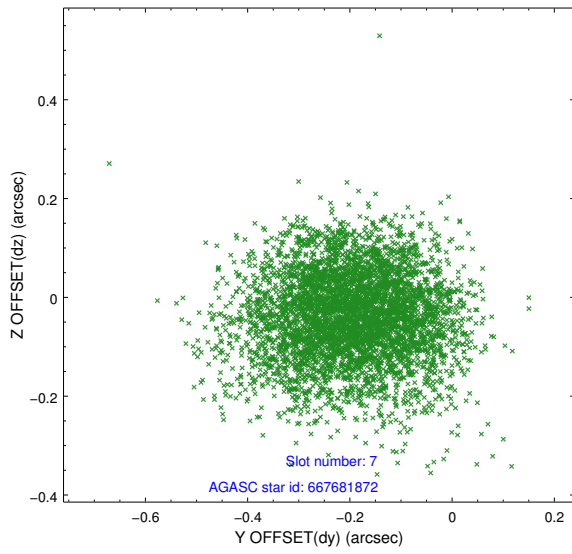
### 2.4.3 Slot 5



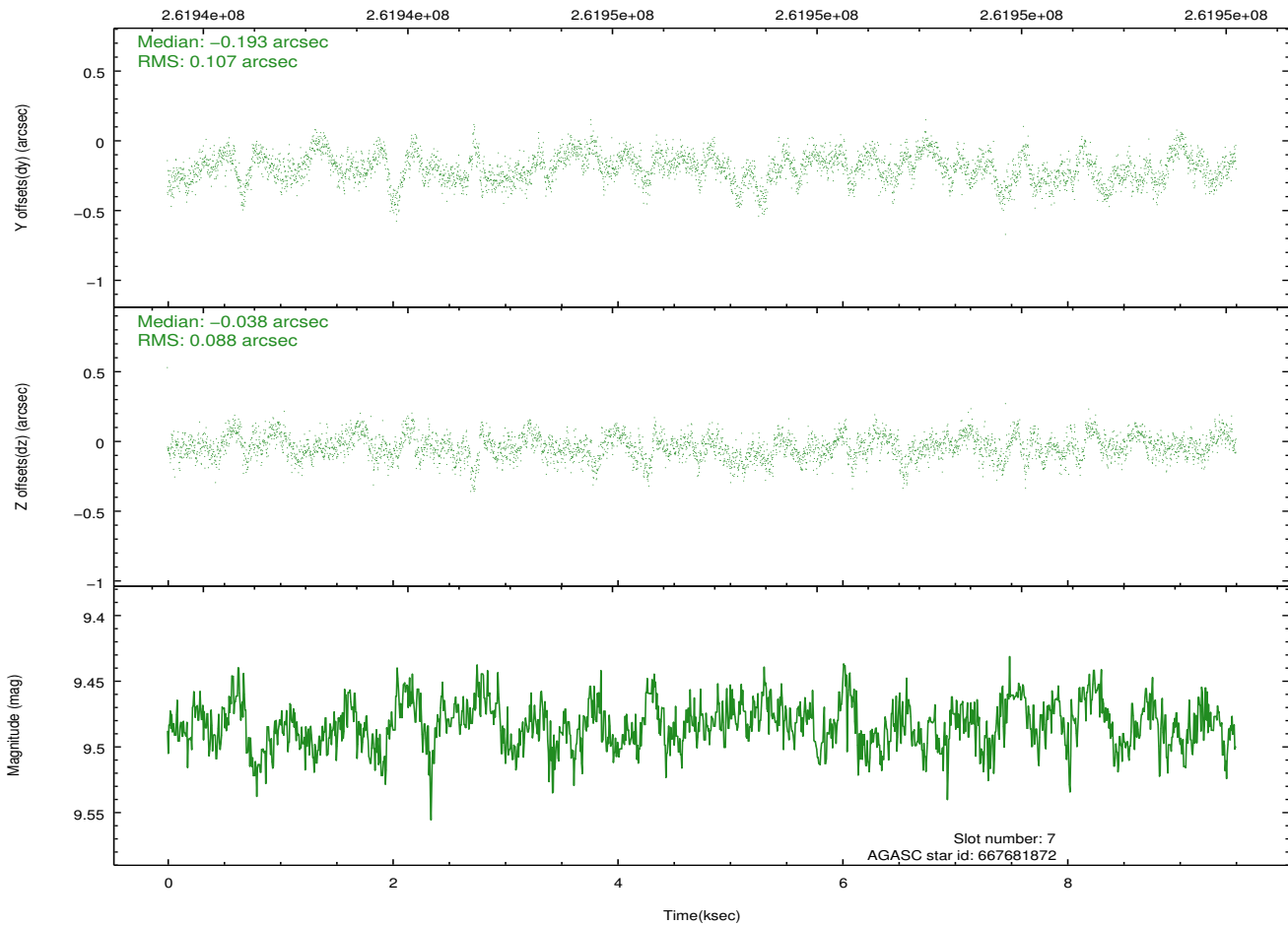
## 2.4.4 Slot 6



## 2.4.5 Slot 7

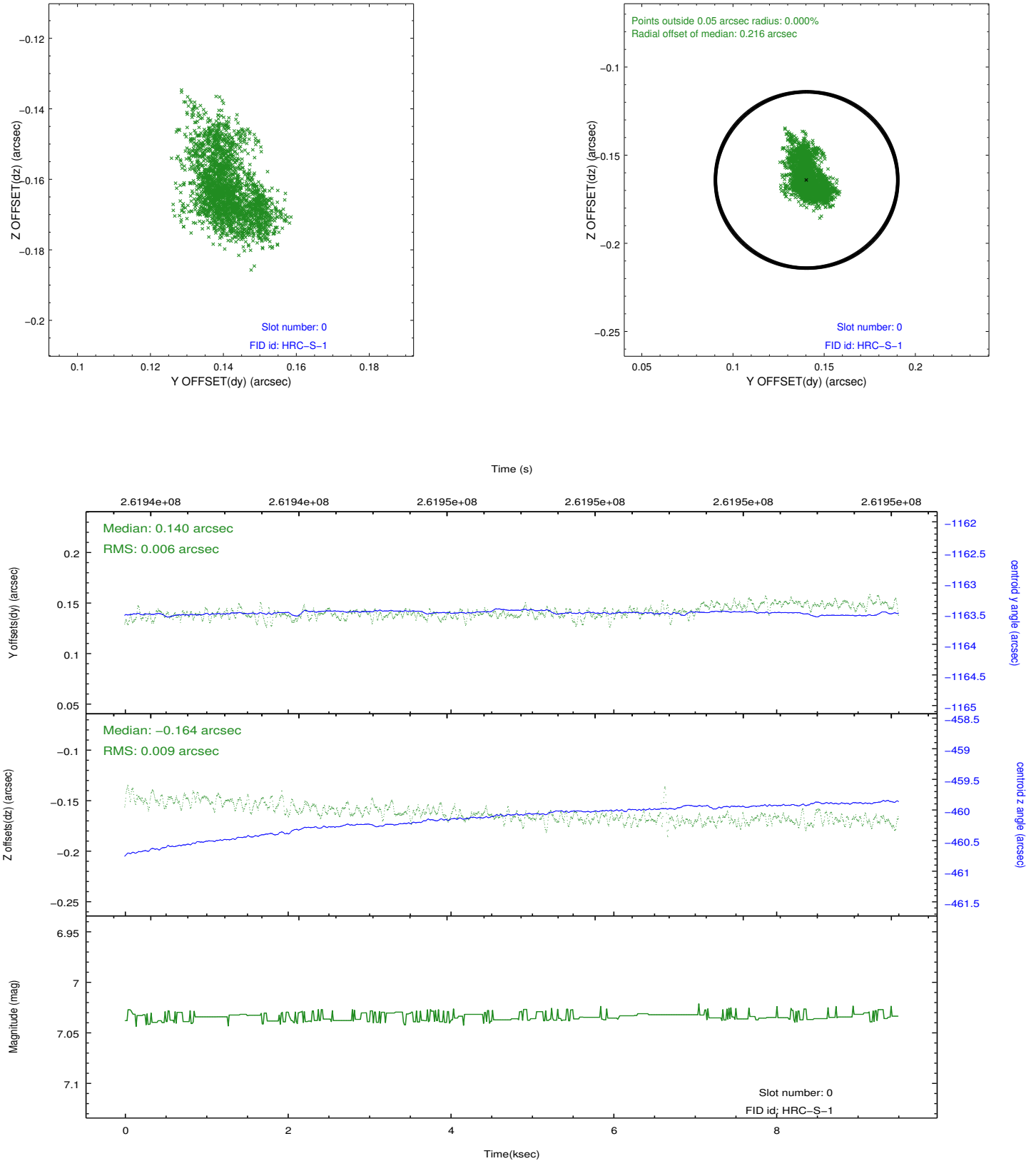


Time (s)

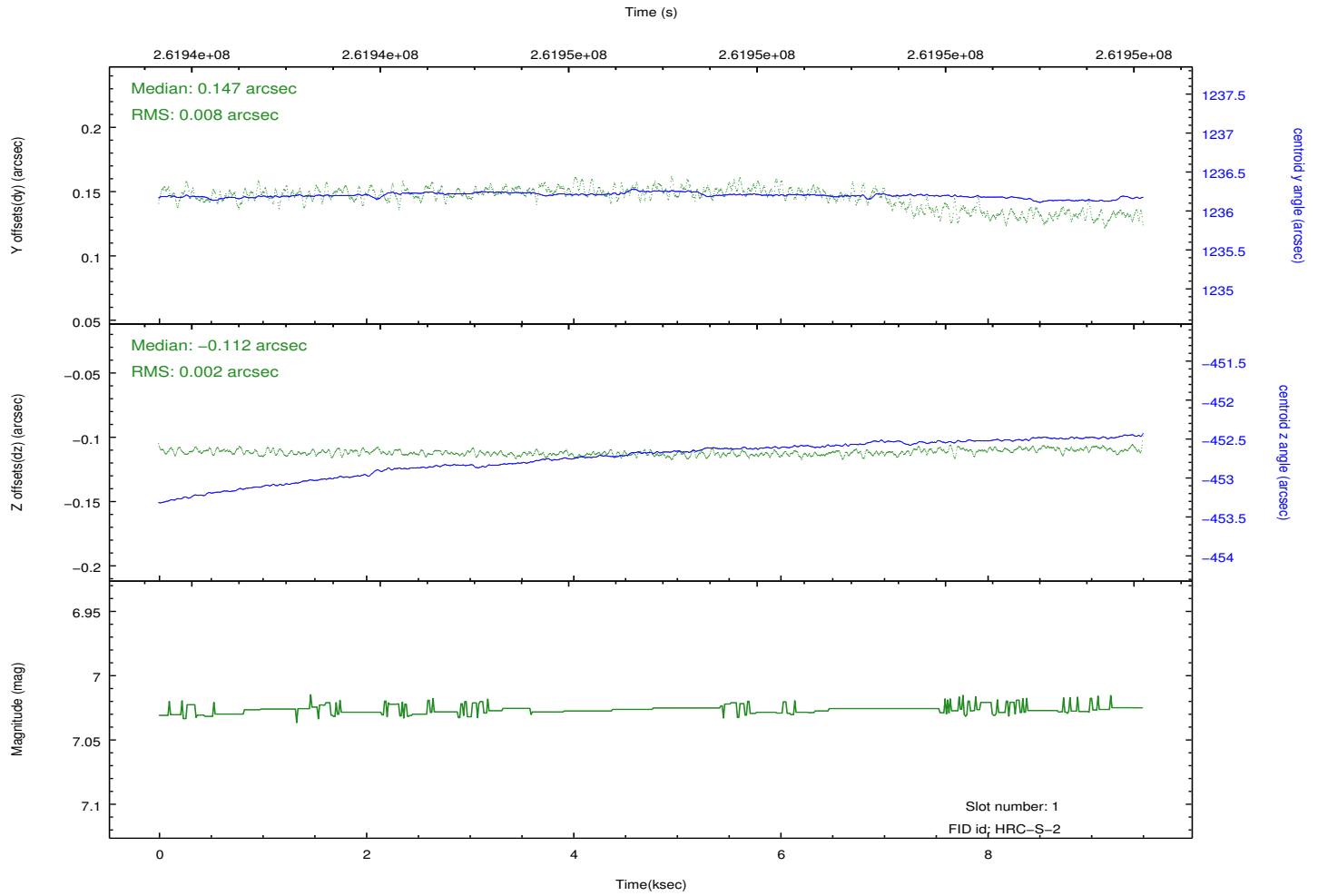
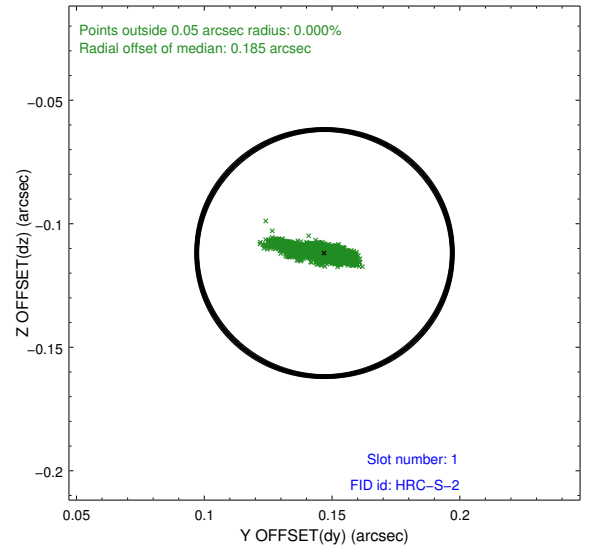
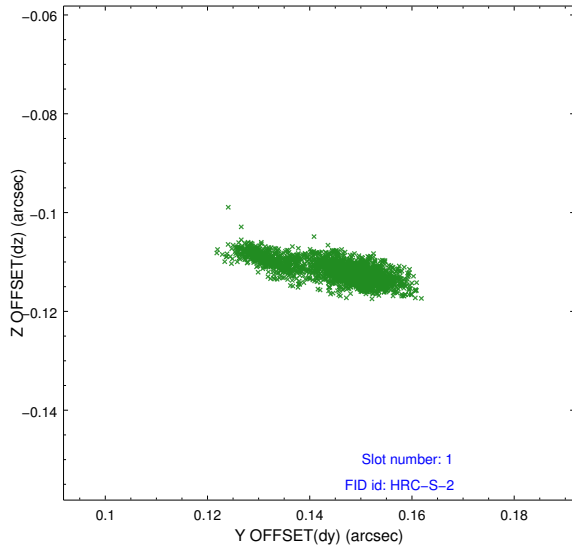


## 2.5 FID Slots

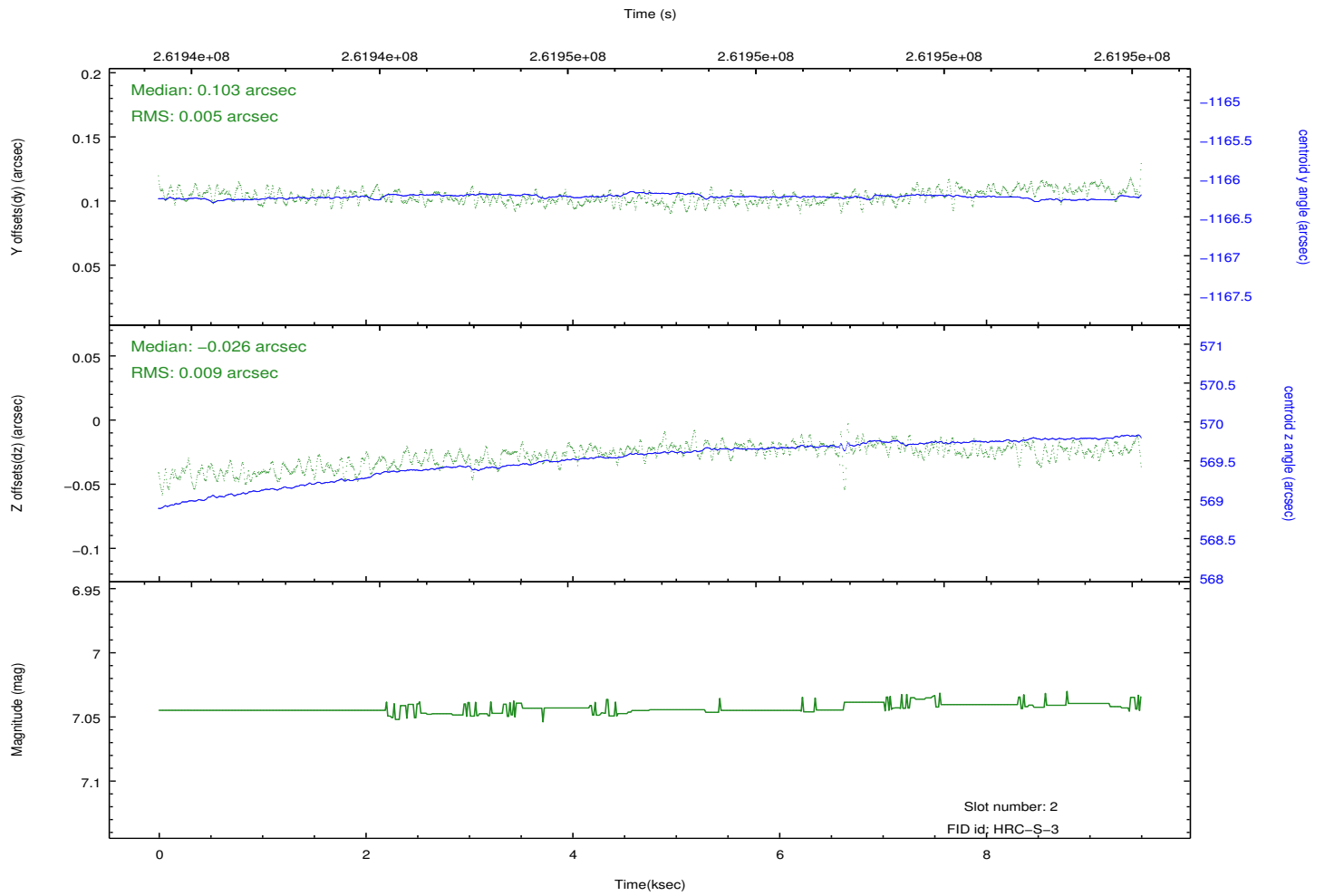
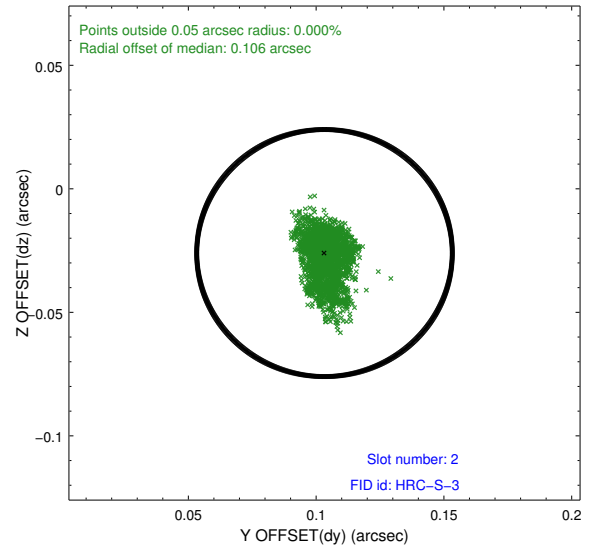
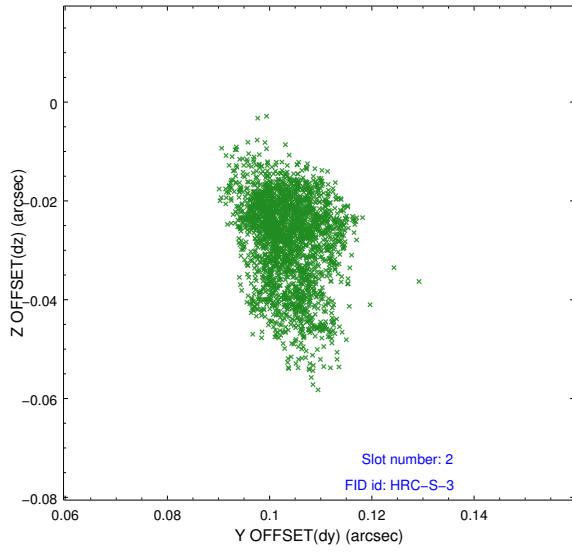
### 2.5.1 Slot 0



## 2.5.2 Slot 1

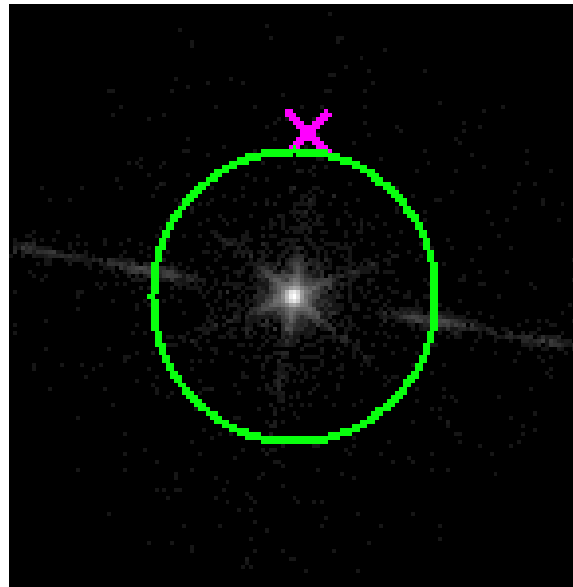


### 2.5.3 Slot 2

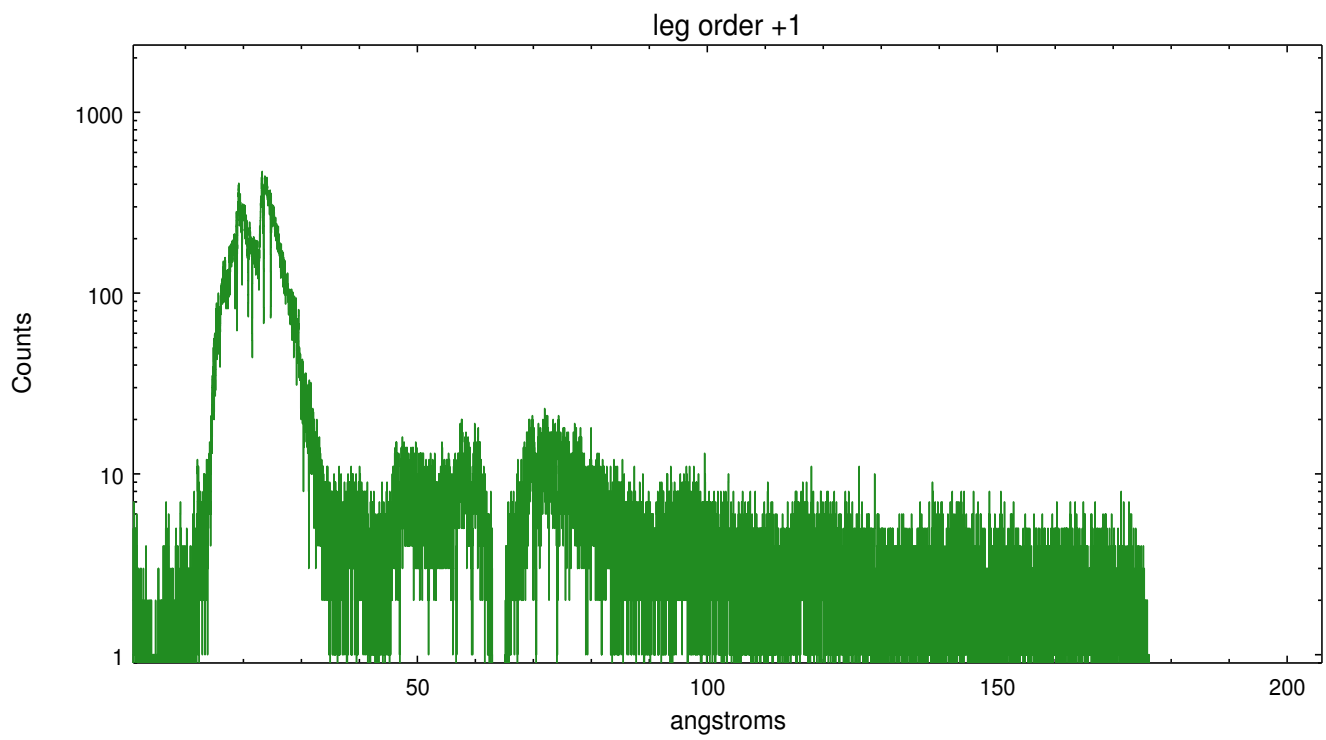
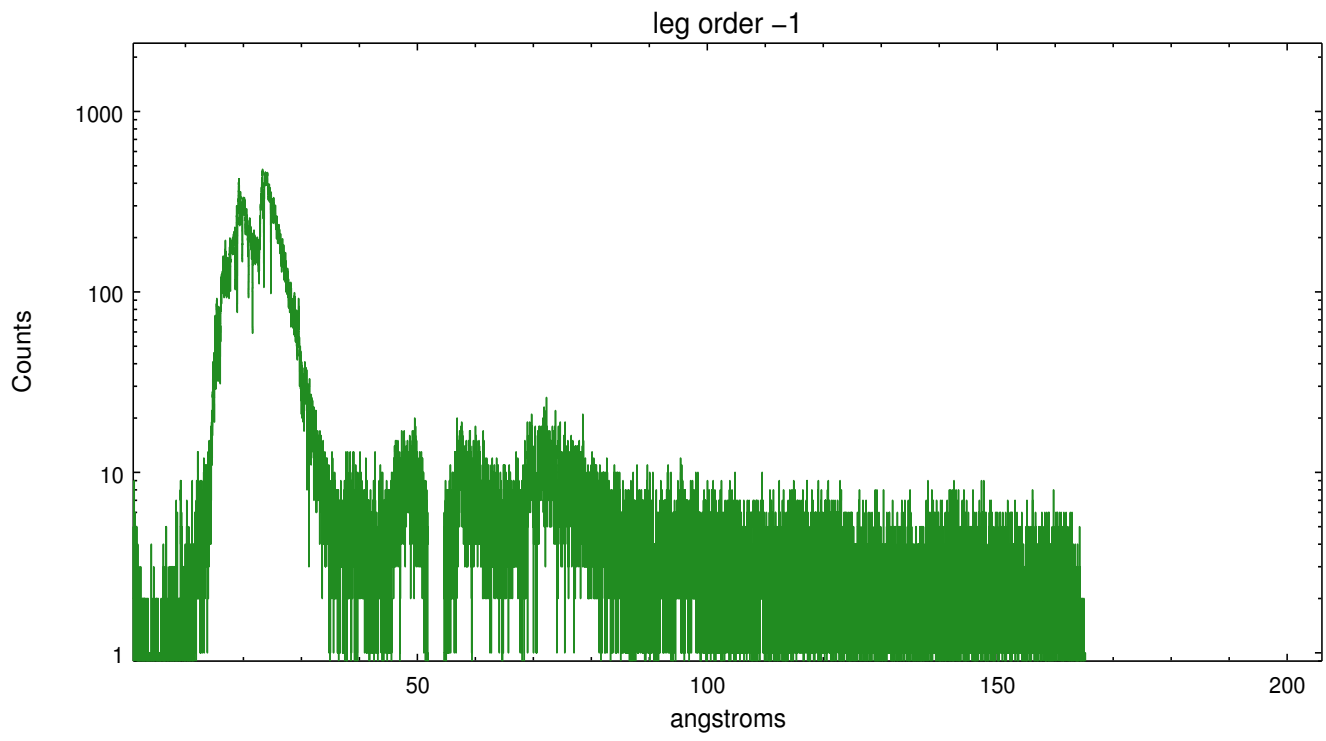


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.50508169

## A.2 Comments

Level 1 data include data taken while the satellite was slewing to the target. The result is an approximately north/south streak, positioned north of the target, that is removed in Level 2 event data when the aspect interval filter is applied.