

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6417 - L2 Version 2  
Chandra X-Ray Center

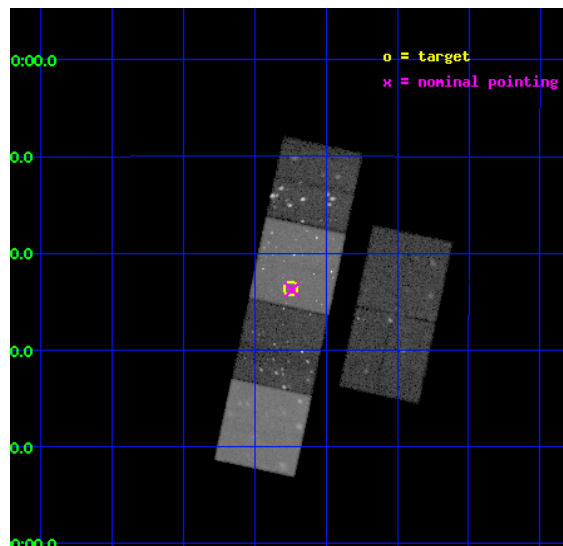
L2 Processing Date : Mar 26 2012

## 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	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	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>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

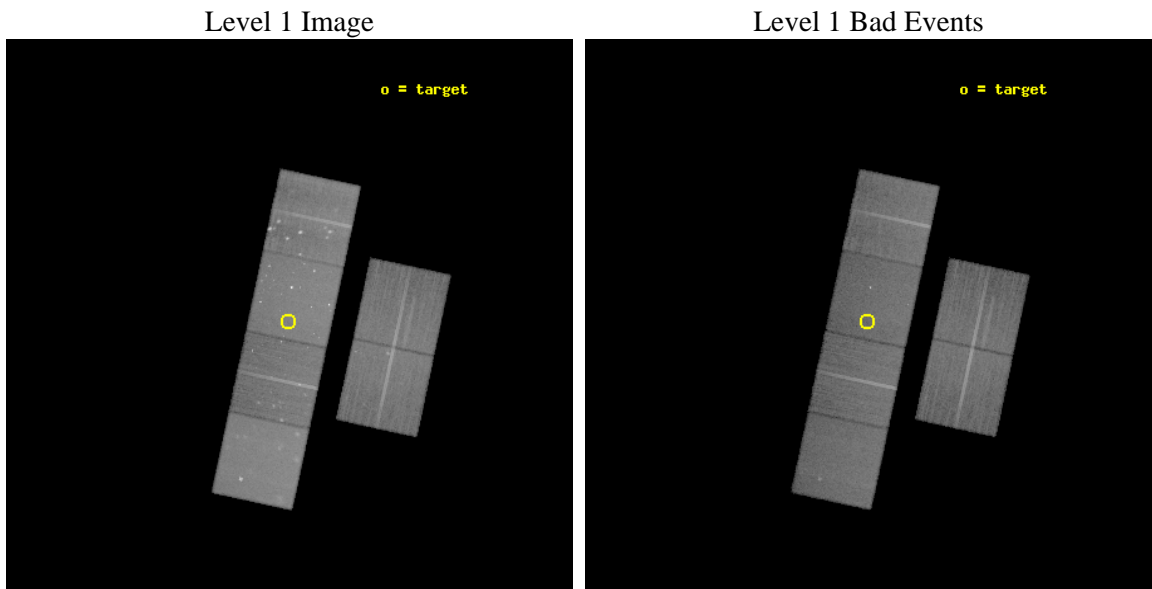
seq_num	200392	Sequence number
obs_id	6417	Observation id
title	Monitoring the X-ray emission of V1118 Ori during its outburst	Pro
observer	Prof. Marc Audard	Principal investigator
object	V1118 Ori	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.68625	Observer's specified target RA [deg]
dec_targ	-5.561472	Observer's specified target Dec [deg]
ra_nom	83.684859819647	Nominal RA [deg]
dec_nom	-5.5630417683878	Nominal Dec [deg]
roll_nom	282.08337382366	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27452.79989773	Sum of GTIs [s]
livetime	27105.176015334	Livetime [s]
ontime2	27452.79989773	Sum of GTIs [s]
ontime3	27452.79989773	Sum of GTIs [s]
ontime5	27452.79989773	Sum of GTIs [s]
ontime6	27449.558917433	Sum of GTIs [s]
ontime7	27452.79989773	Sum of GTIs [s]
ontime8	27452.79989773	Sum of GTIs [s]
l2events	440110	Number of level 2 events



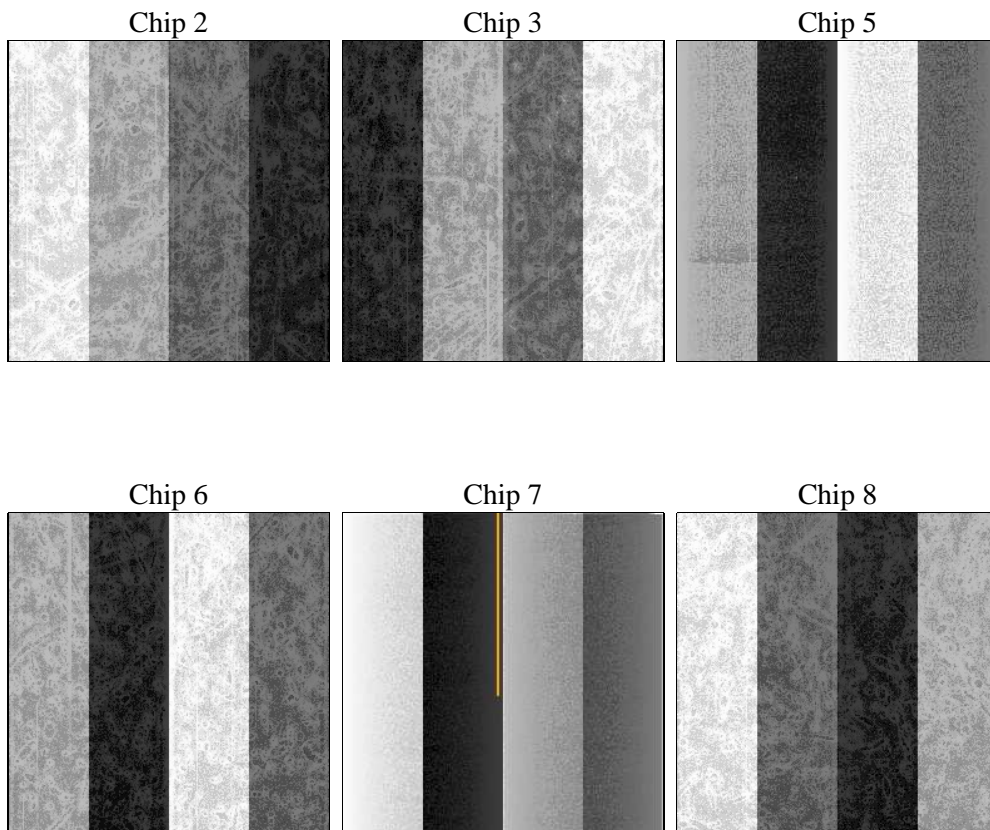
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	27452.79989773	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime2	27452.79989773	Sum of GTIs [s]
date	2012-03-26T07:07:38	Date and time of file creation	ontime3	27452.79989773	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	27452.79989773	Sum of GTIs [s]
			ontime6	27449.558917433	Sum of GTIs [s]
			ontime7	27452.79989773	Sum of GTIs [s]
			ontime8	27452.79989773	Sum of GTIs [s]
			l1events	1731936	Number of level 1 events

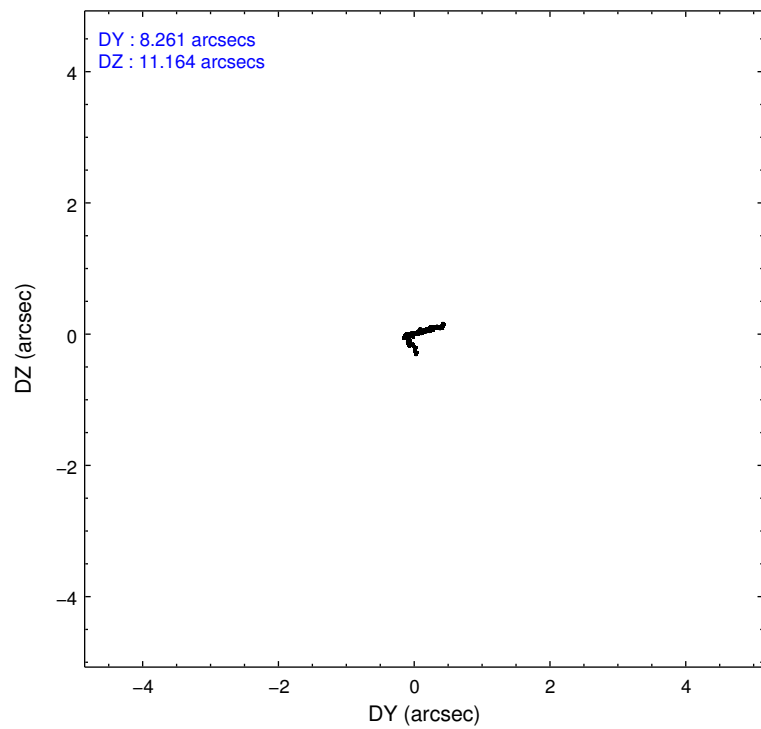
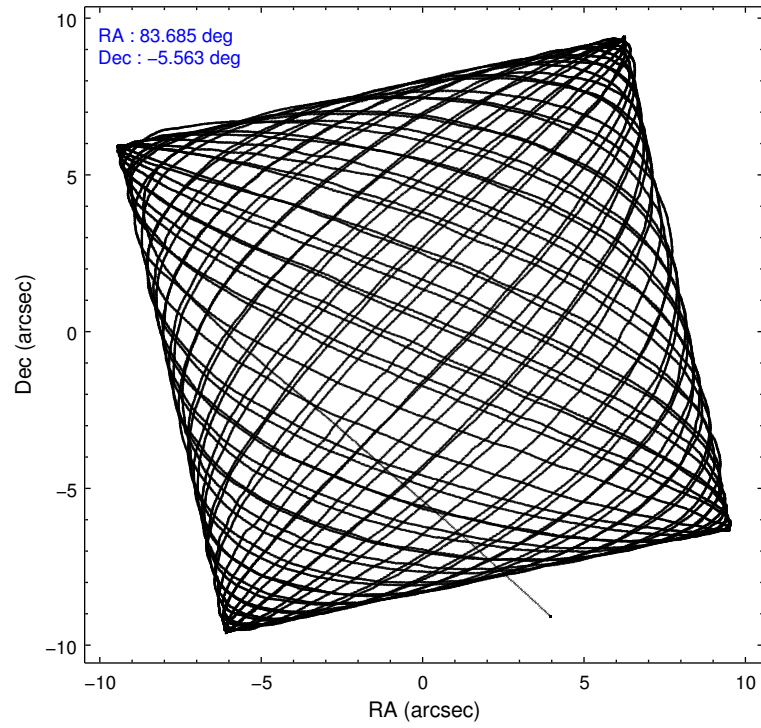
### 2.1.4 Events

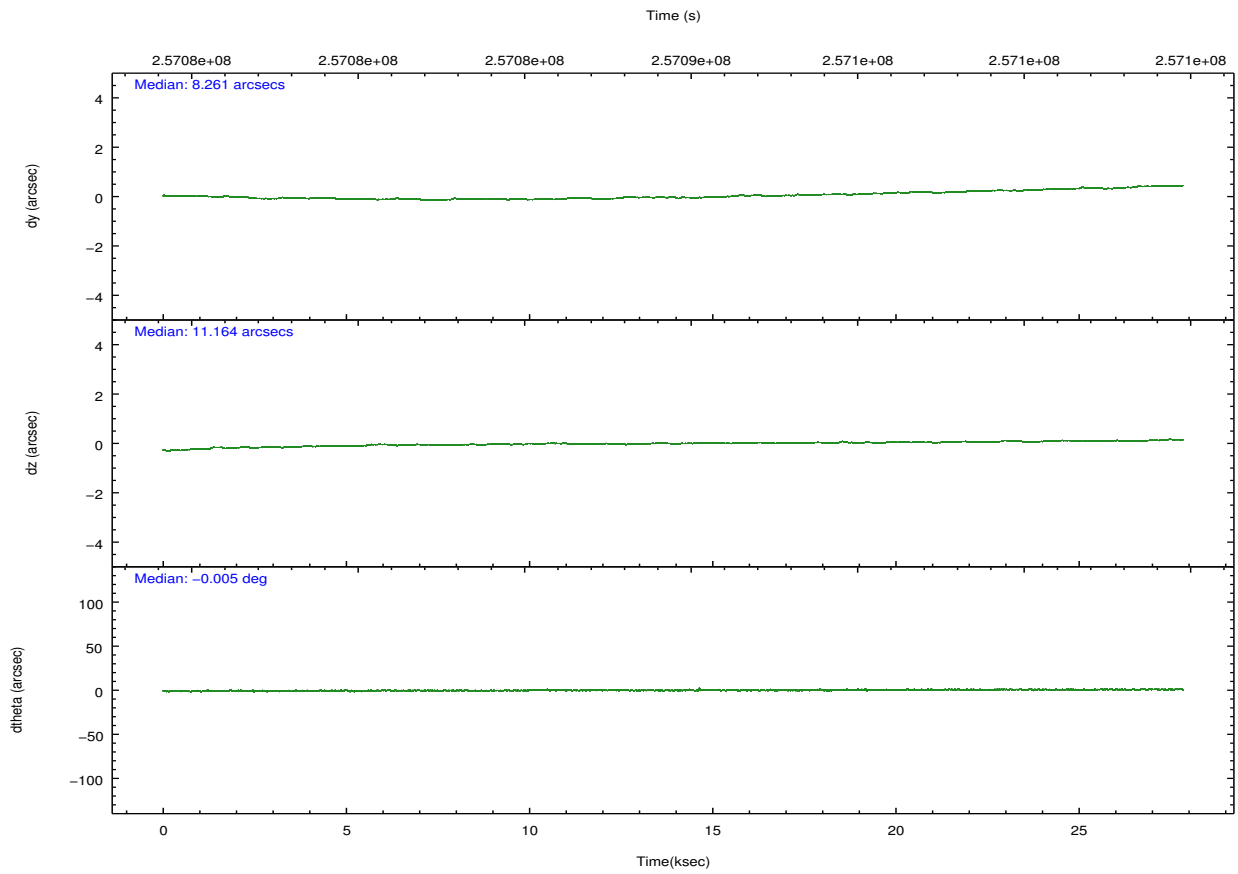
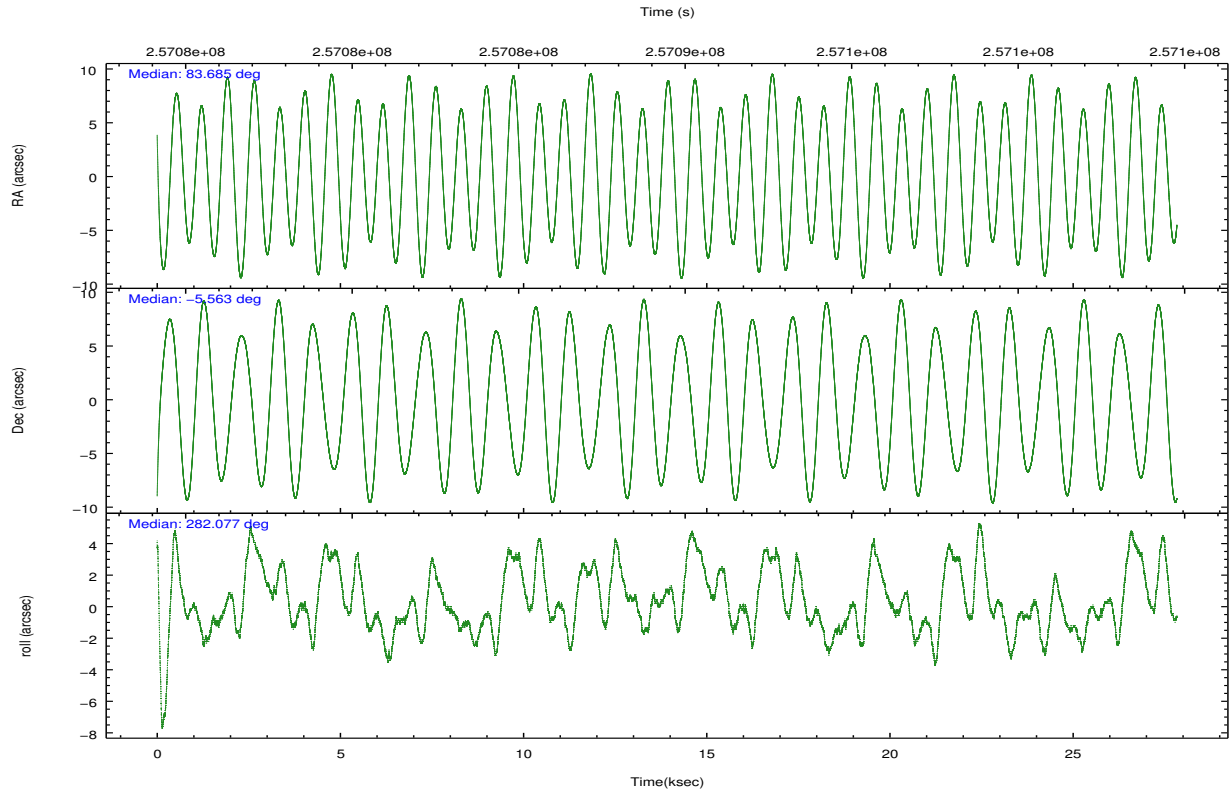
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	241580	227273	359153	243154	344399	316377	grade 0 events	13699	12012	16163	17961	18538	37579
rejected events	212222	200143	191388	207022	188428	231646		5%	5%	4%	7%	5%	11%
rejected %	87%	88%	53%	85%	54%	73%	grade 1 events	159	159	918	134	602	332
								0%	0%	0%	0%	0%	0%
							grade 2 events	5821	5186	50914	6658	32420	16127
								2%	2%	14%	2%	9%	5%
							grade 3 events	2647	2605	7078	2883	14434	7373
								1%	1%	1%	1%	4%	2%
							grade 4 events	2575	2596	6952	2823	14015	6722
								1%	1%	1%	1%	4%	2%
							grade 5 events	9176	10506	25923	10872	30875	14585
								3%	4%	7%	4%	8%	4%
							grade 6 events	4621	4734	86676	5808	76585	16955
								1%	2%	24%	2%	22%	5%
							grade 7 events	202882	189475	164529	196015	156930	216704
								83%	83%	45%	80%	45%	68%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.666260	83.68485981964677	Subarray requested	NONE	NONE
[deg] Pointing Dec	-5.543078	-5.563041768387783	Alternating exposures requested	N	N
[deg] Pointing Roll	281.924945	282.0833738236627	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	257075868.184000	257074831.80498			
Observation start date	2006-02-23T09:56:43	2006-02-23T09:40:31			
[s] Observation end time (MET)	257103368.184000	257103991.51883			
Observation end date	2006-02-23T17:35:03	2006-02-23T17:46:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect



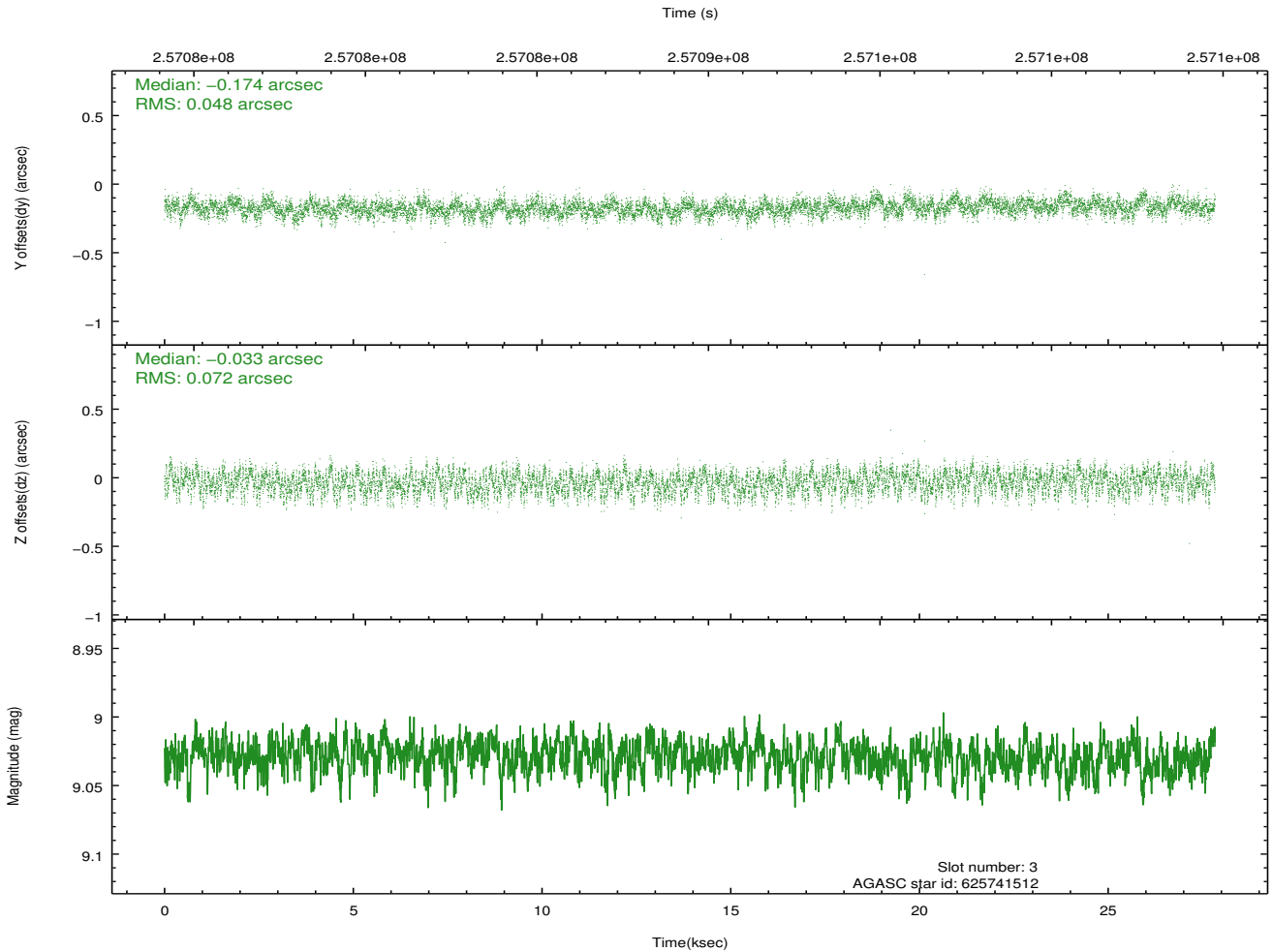
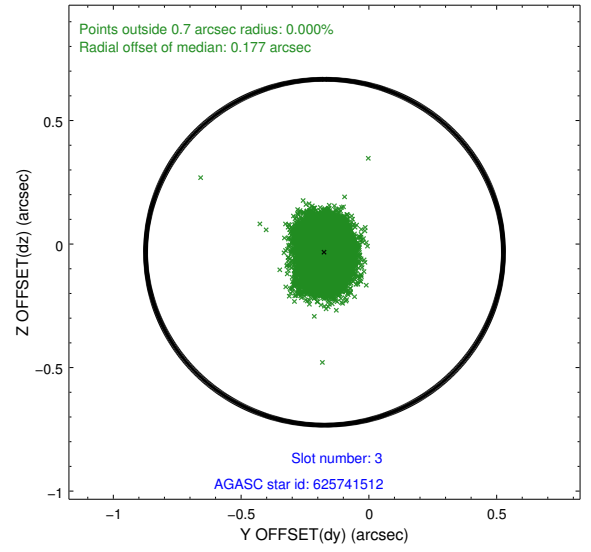
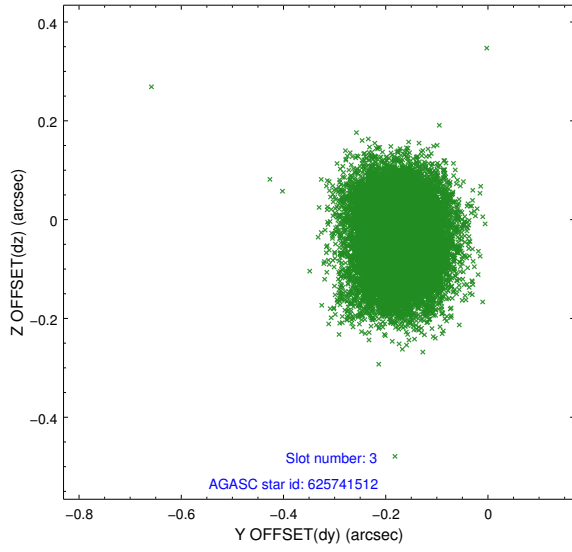


### Slot Statistics

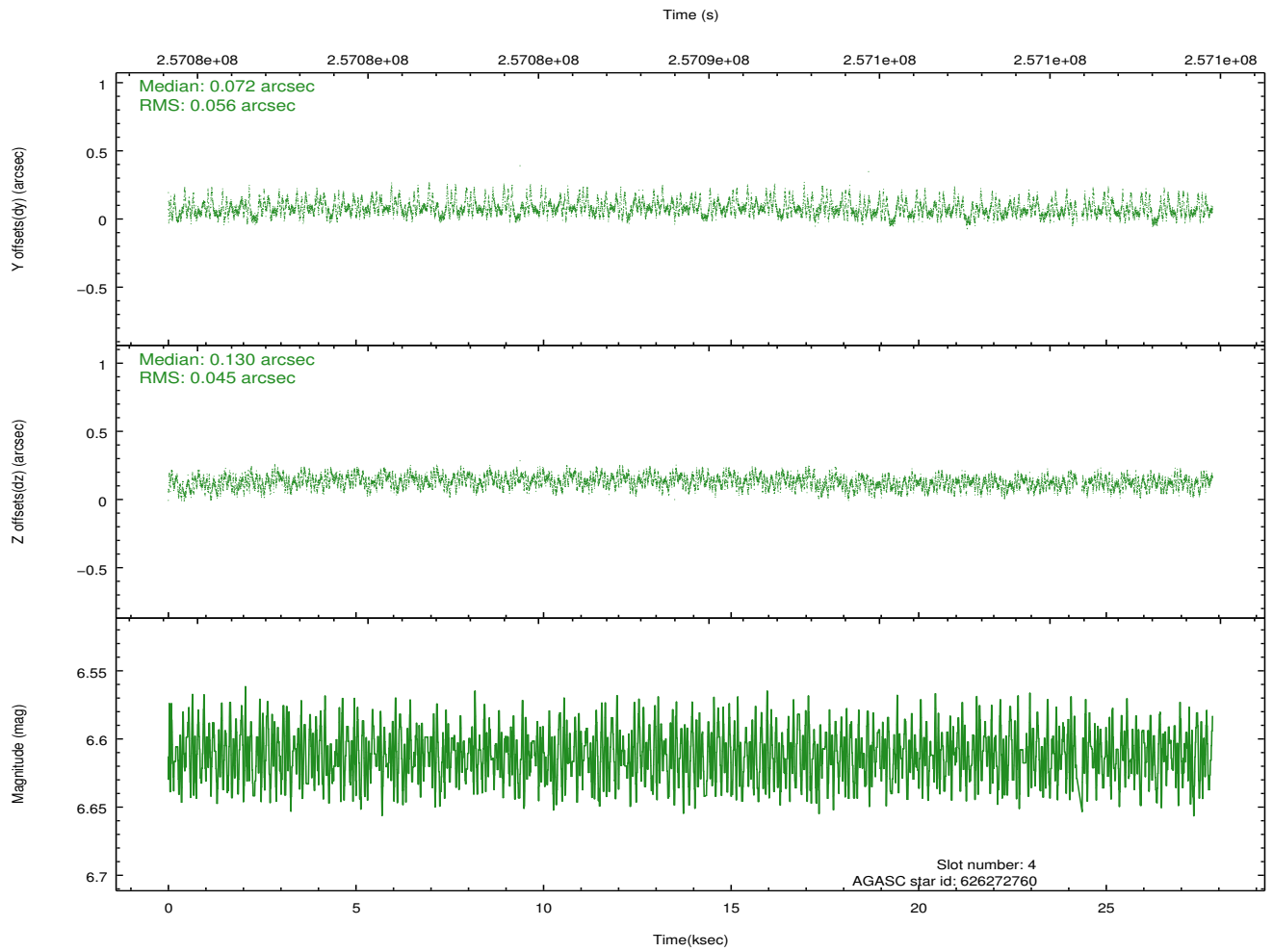
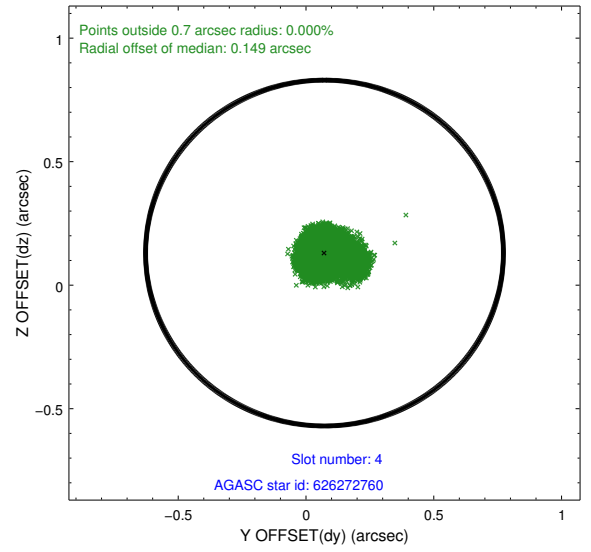
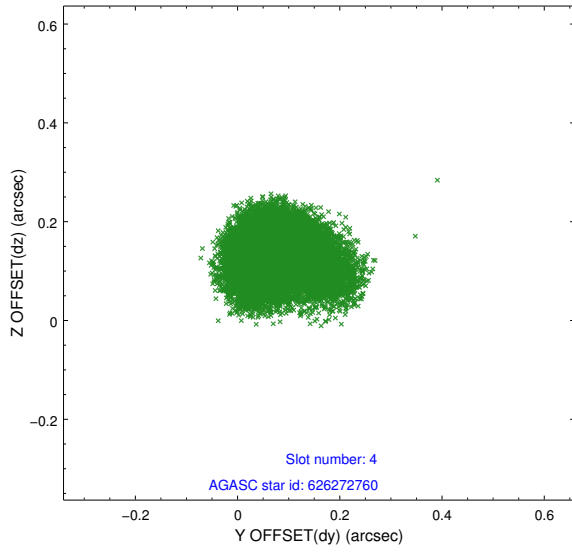
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6789	-0.037	-0.019	0.011	0.017	0.000000	0.000000	-761.11	-1732.46
1	FID	ACIS-S-4	7.21	6788	0.133	0.023	0.011	0.020	0.000000	0.000000	2152.26	176.02
2	FID	ACIS-S-5	7.23	6789	-0.127	0.005	0.008	0.016	0.000000	0.000000	-1813.96	169.71
3	GUIDE	625741512	9.03	13565	-0.174	-0.033	0.092	0.148	83.281151	-5.340585	-997.74	-1199.94
4	GUIDE	626272760	6.61	13515	0.072	0.130	0.076	0.125	84.363987	-5.938389	1910.29	2150.59
5	GUIDE	626272976	7.94	13577	0.163	-0.087	0.072	0.112	83.795875	-5.926912	1448.58	169.06
6	GUIDE	625745144	7.85	13579	-0.280	0.149	0.070	0.116	83.888985	-4.837539	-2319.87	1306.76
7	GUIDE	626265688	9.29	13509	0.206	-0.158	0.104	0.166	83.158748	-5.995438	1219.31	-2114.22

## 2.4 Star Slots

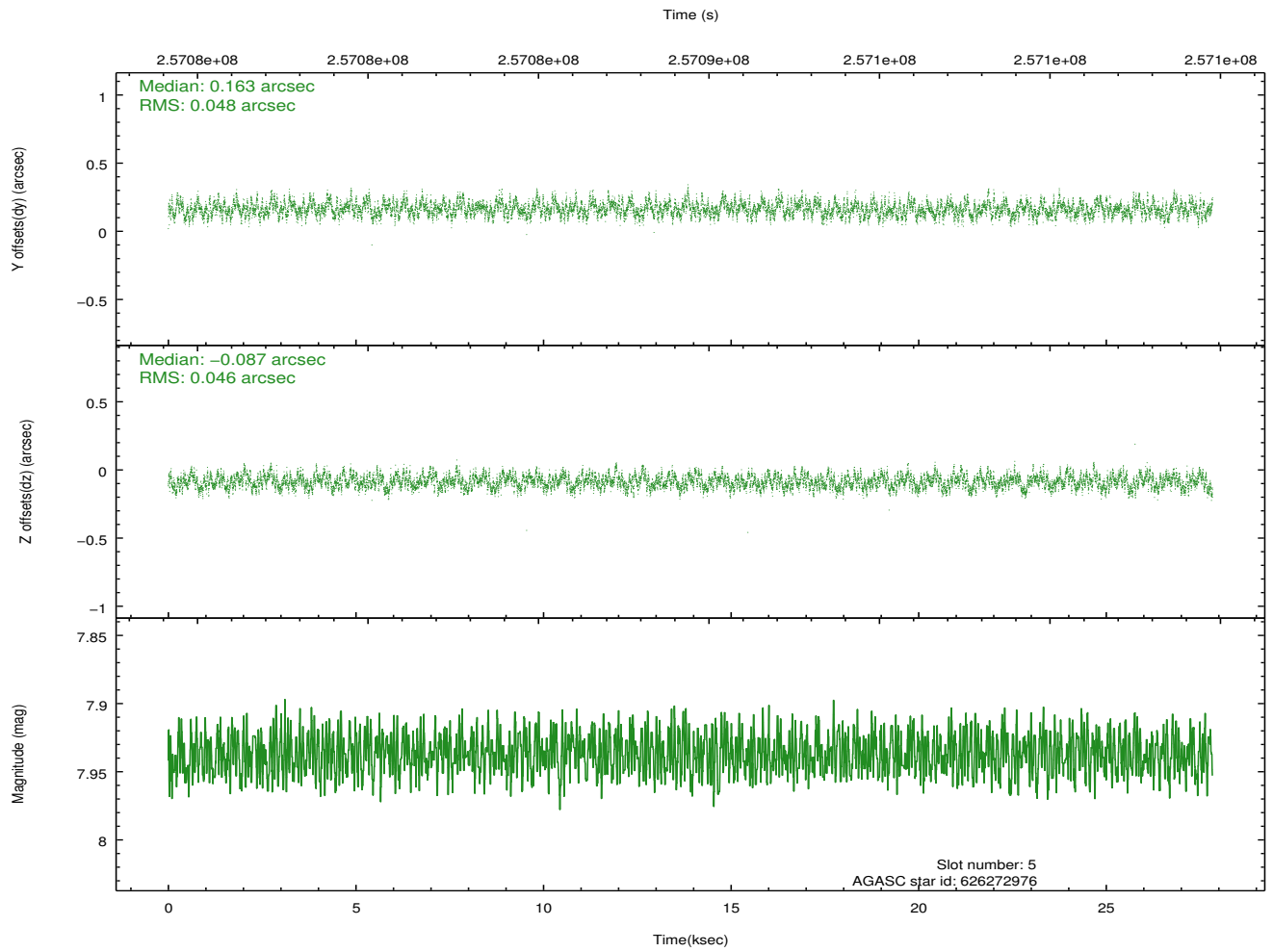
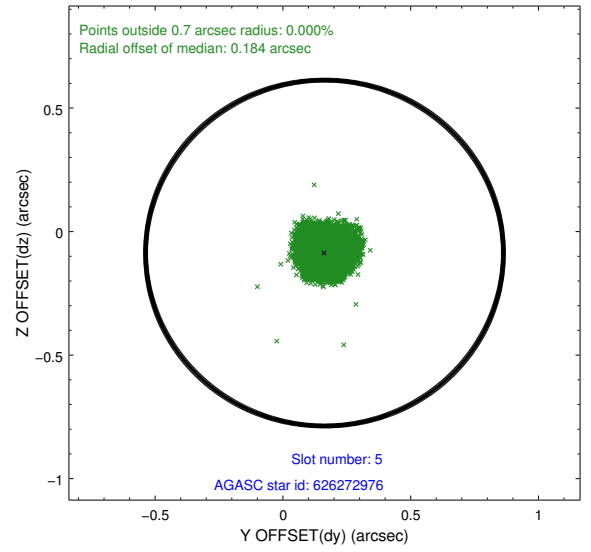
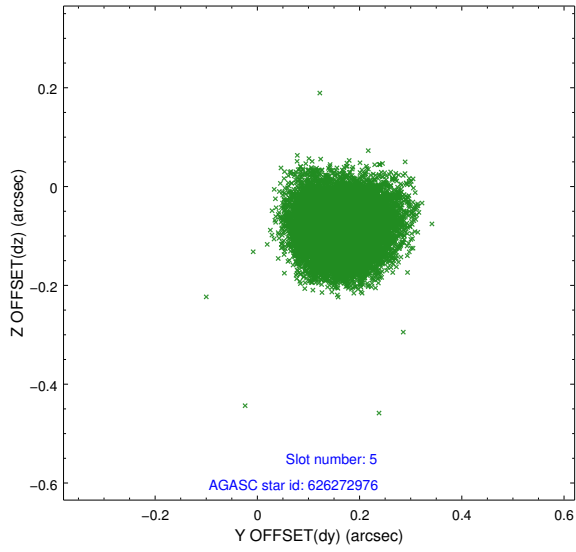
### 2.4.1 Slot 3



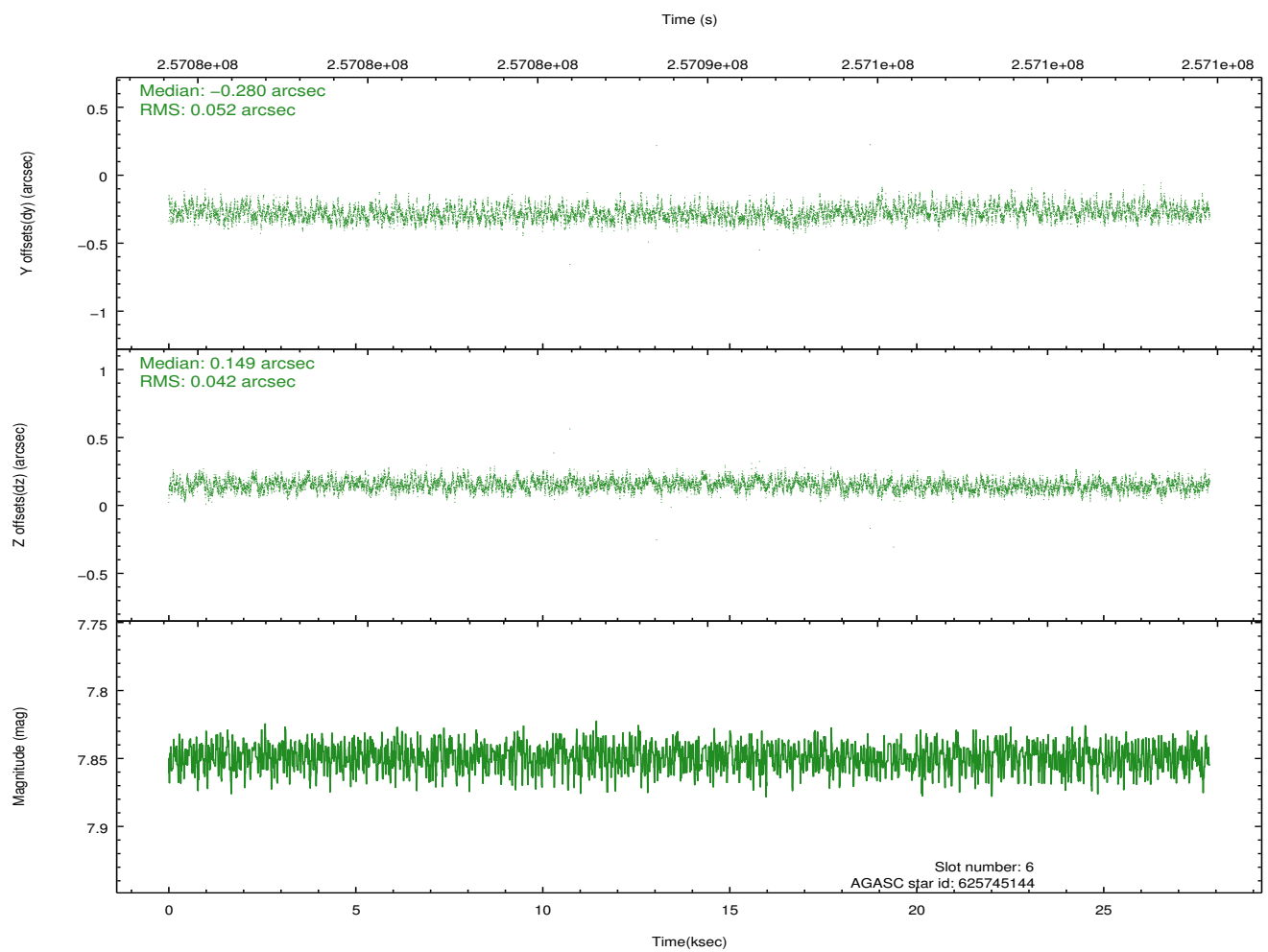
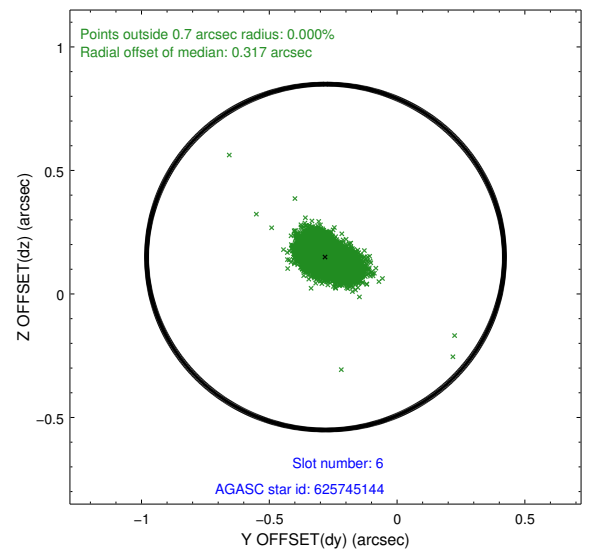
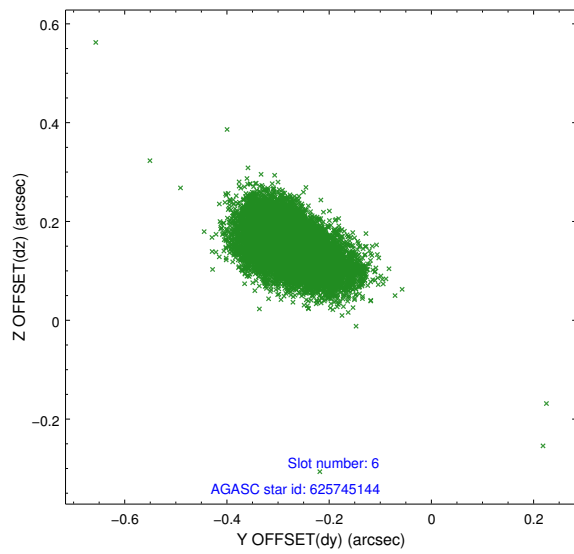
### 2.4.2 Slot 4



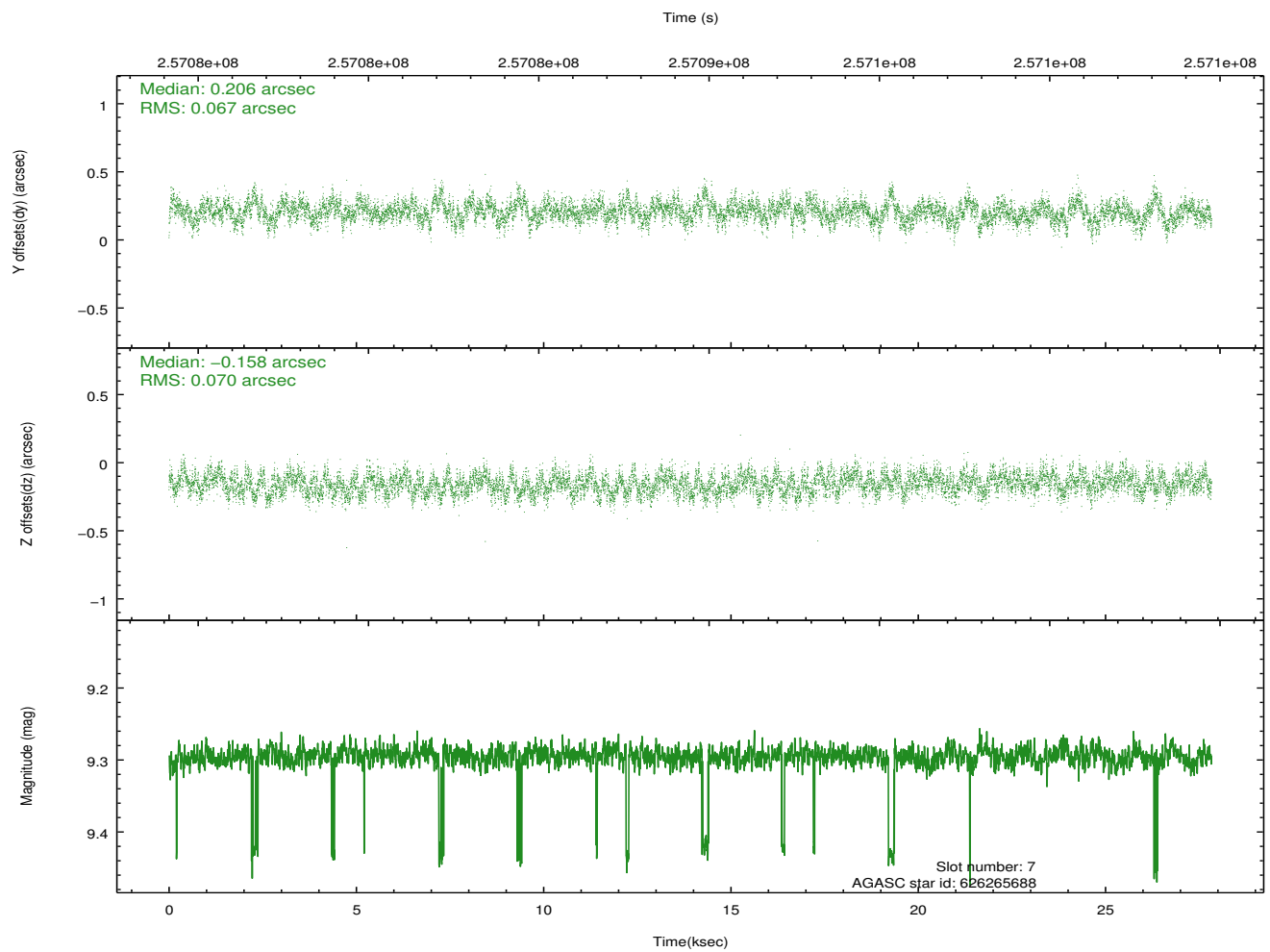
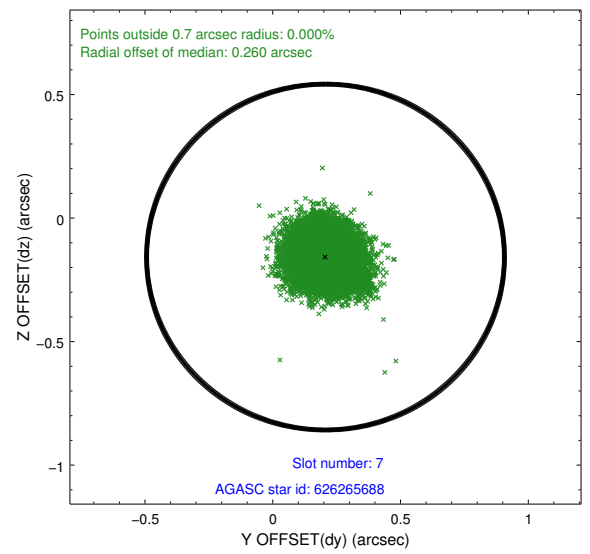
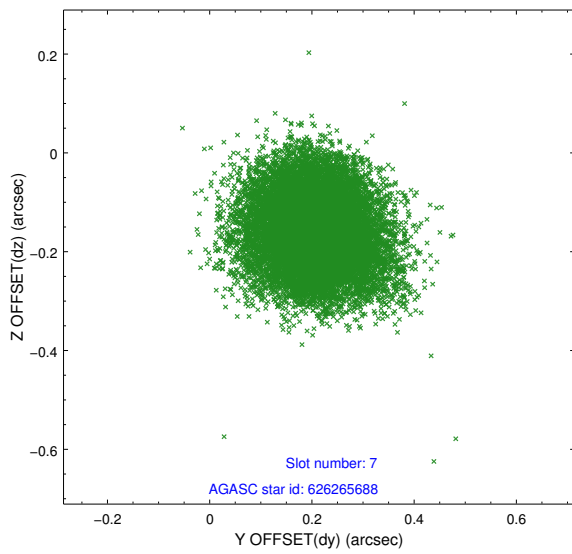
### 2.4.3 Slot 5



## 2.4.4 Slot 6

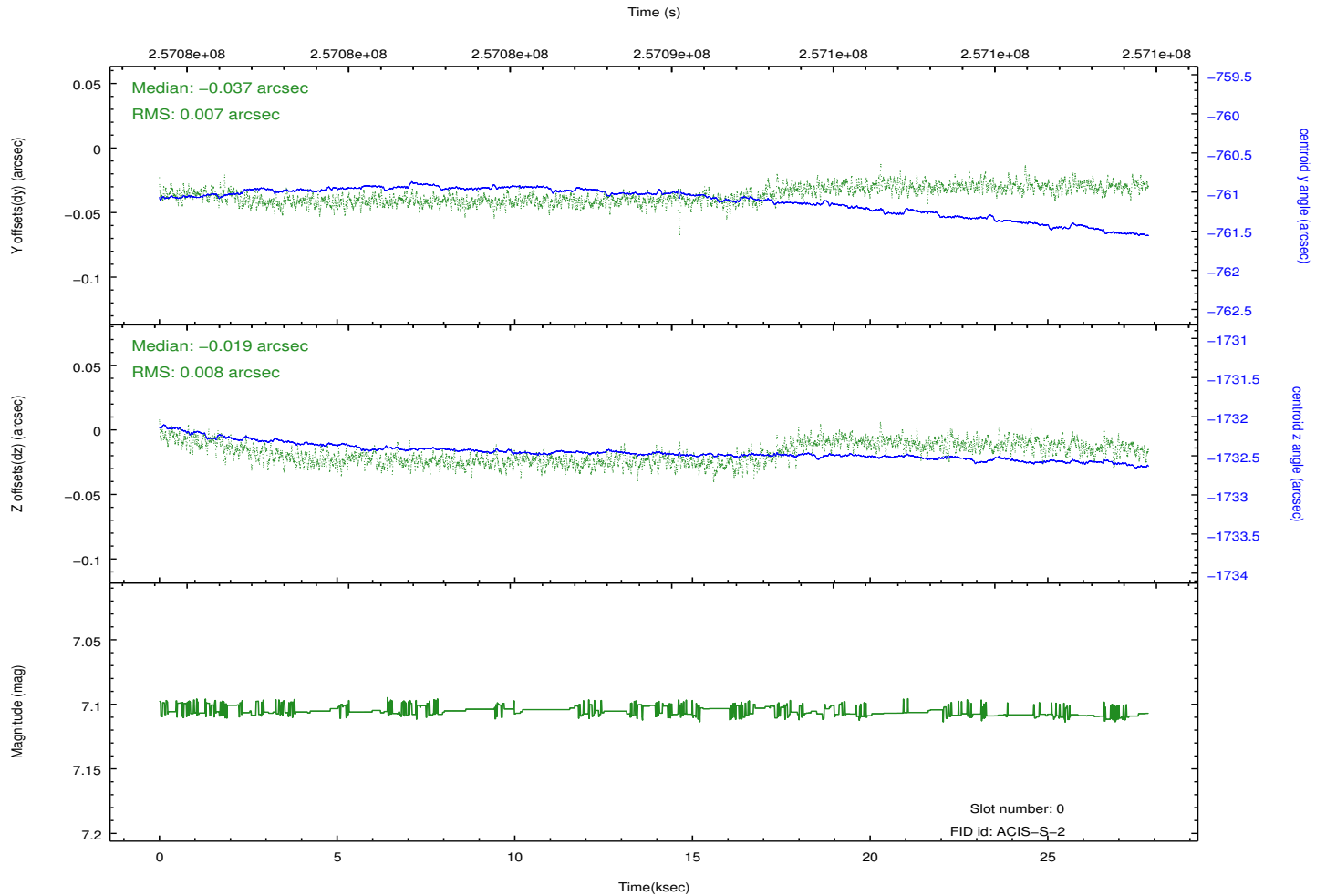
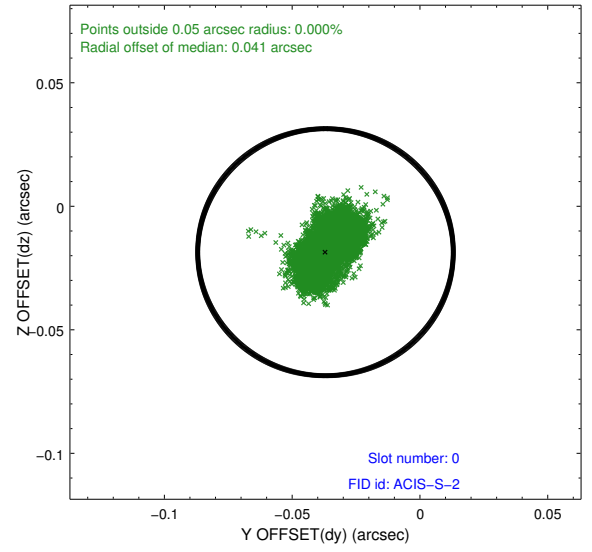
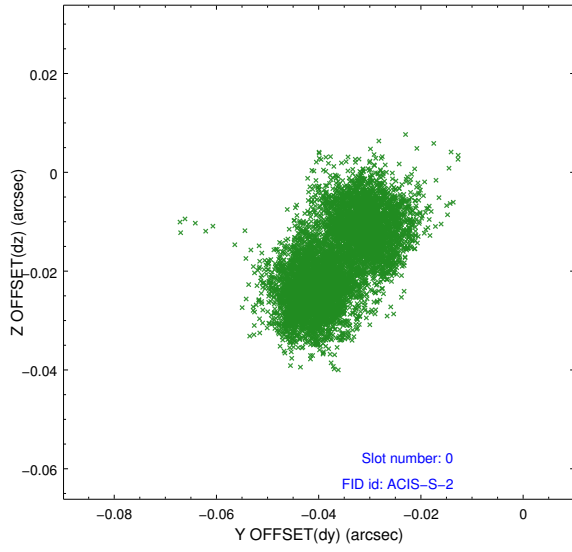


## 2.4.5 Slot 7

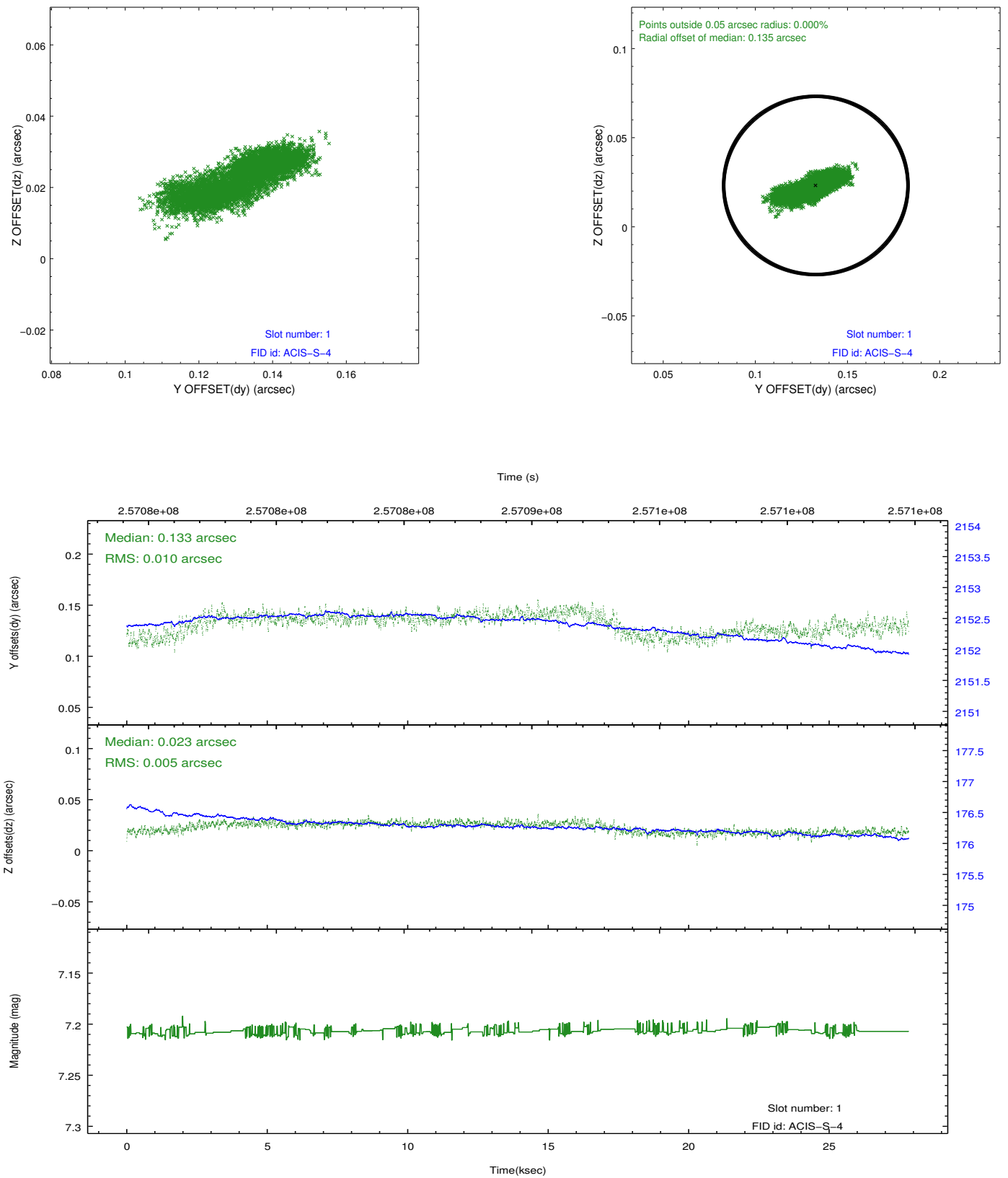


## 2.5 FID Slots

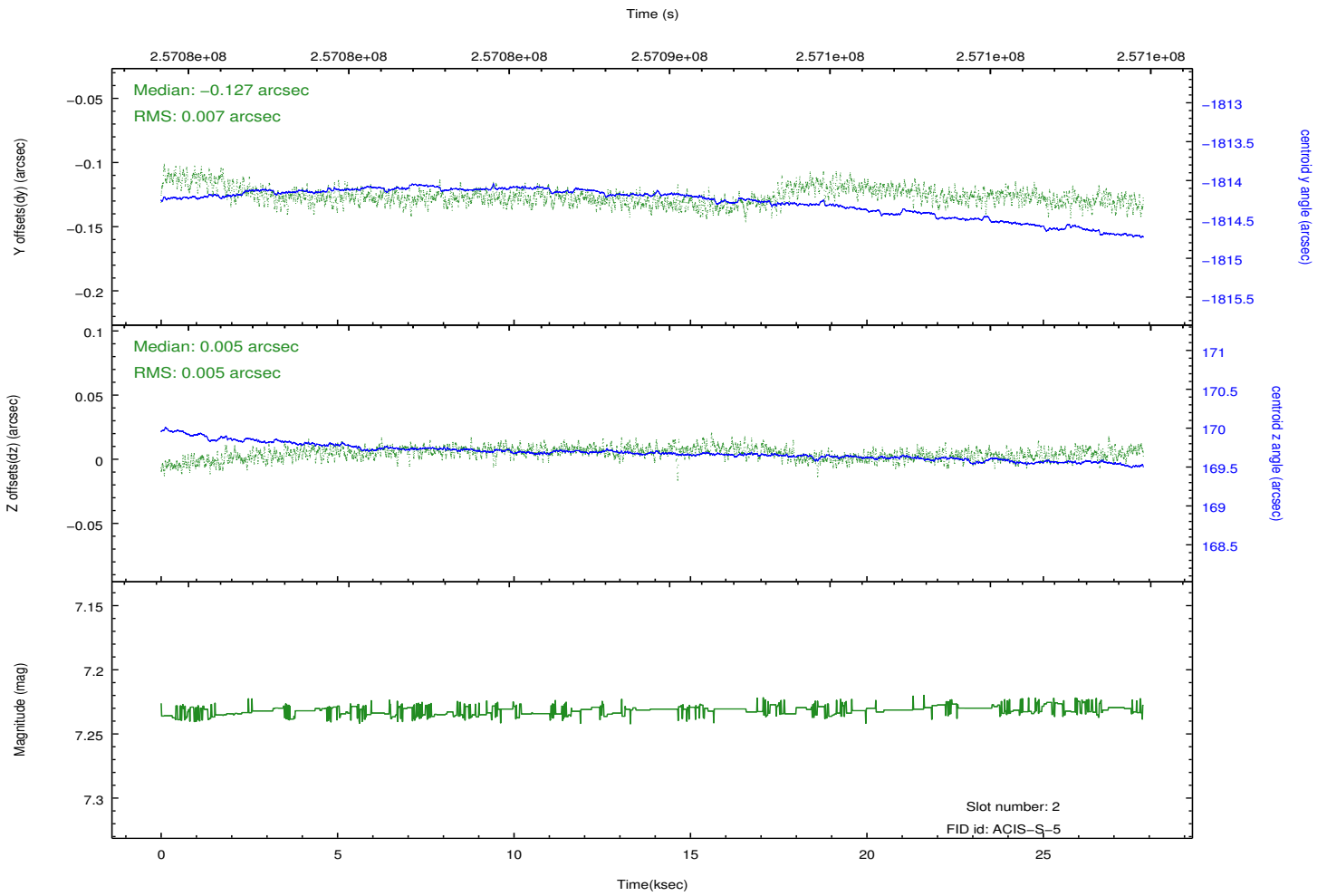
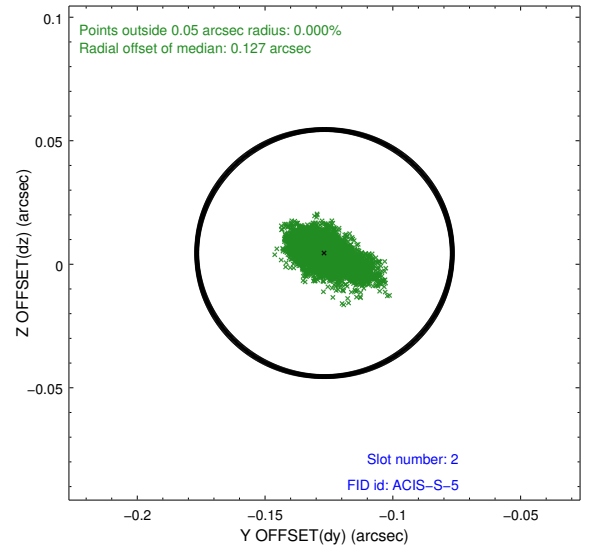
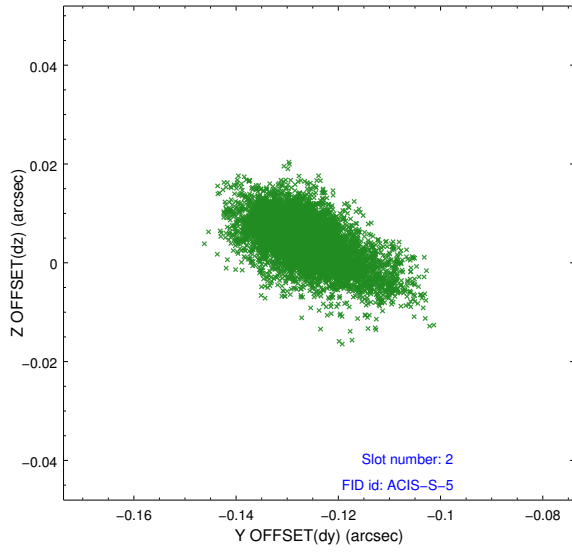
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.4527998

### A.2 Comments