

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 14229 - L2 Version 1  
Chandra X-Ray Center

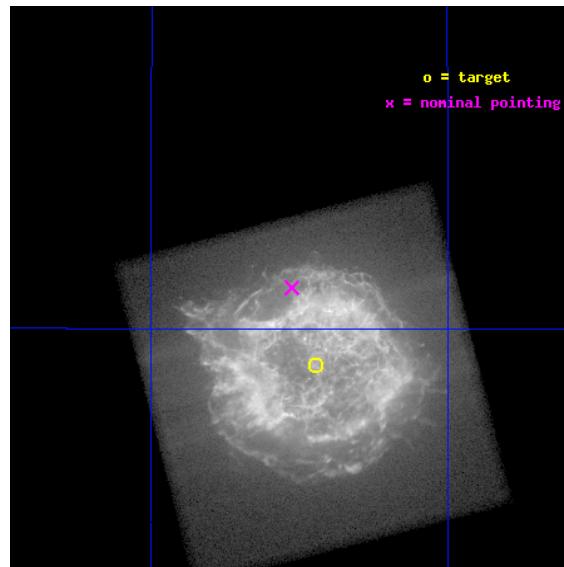
L2 Processing Date : May 16 2012

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# 1 Front

seq_num	501786	Sequence number
obs_id	14229	Observation id
title	Multicycle Monitoring of the Young Galactic Supernova Remnant Cassiopeia A	Proposal title
observer	Daniel Patnaude	Principal investigator
object	Cassiopeia A	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.86125	Observer's specified target RA [deg]
dec_targ	58.8175	Observer's specified target Dec [deg]
ra_nom	350.88142952197	Nominal RA [deg]
dec_nom	58.850894257118	Nominal Dec [deg]
roll_nom	75.440033078123	Nominal Roll [deg]
revision	1	Processing version of data
ontime	49760.237832904	Sum of GTIs [s]
livetime	49088.704357296	Livetime [s]
ontime7	49760.237832904	Sum of GTIs [s]
l2events	13518462	Number of level 2 events

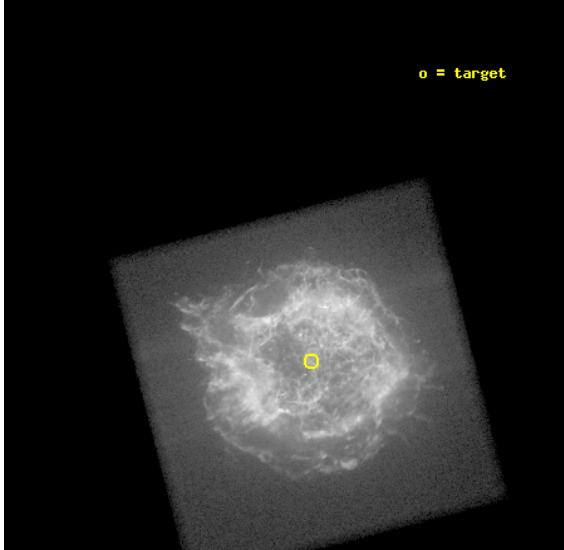


## 2 OBI

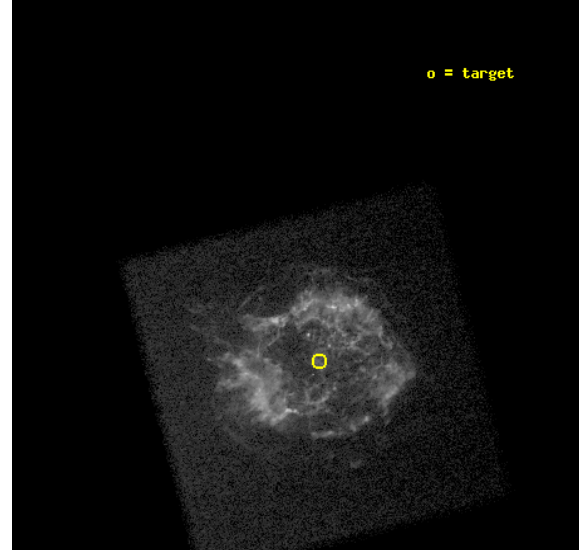
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	49669.907000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	49760.237832904	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime7	49760.237832904	Sum of GTIs [s]
date	2012-05-16T20:02:51	Date and time of file creation	l1events	14448219	Number of level 1 events
revision	1	Processing version of data			

### 2.1.3 Events

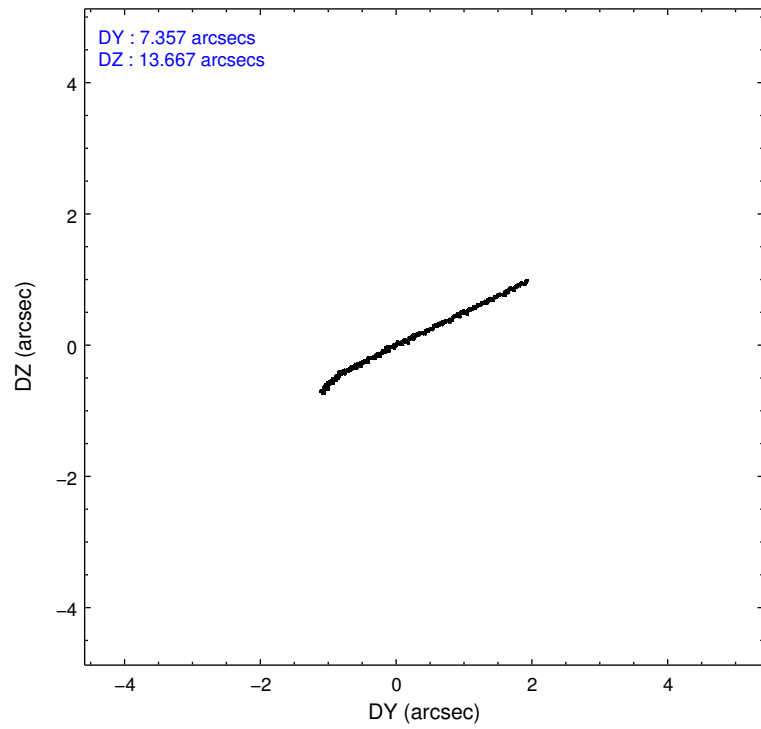
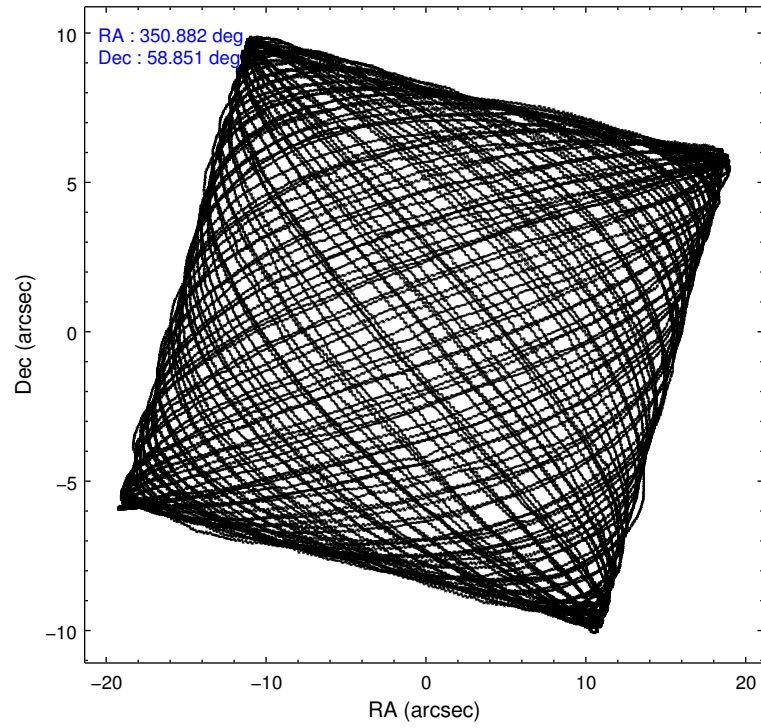
	<b>ccd 7</b>
level 1 events	14448219
rejected events	783530
rejected %	5%

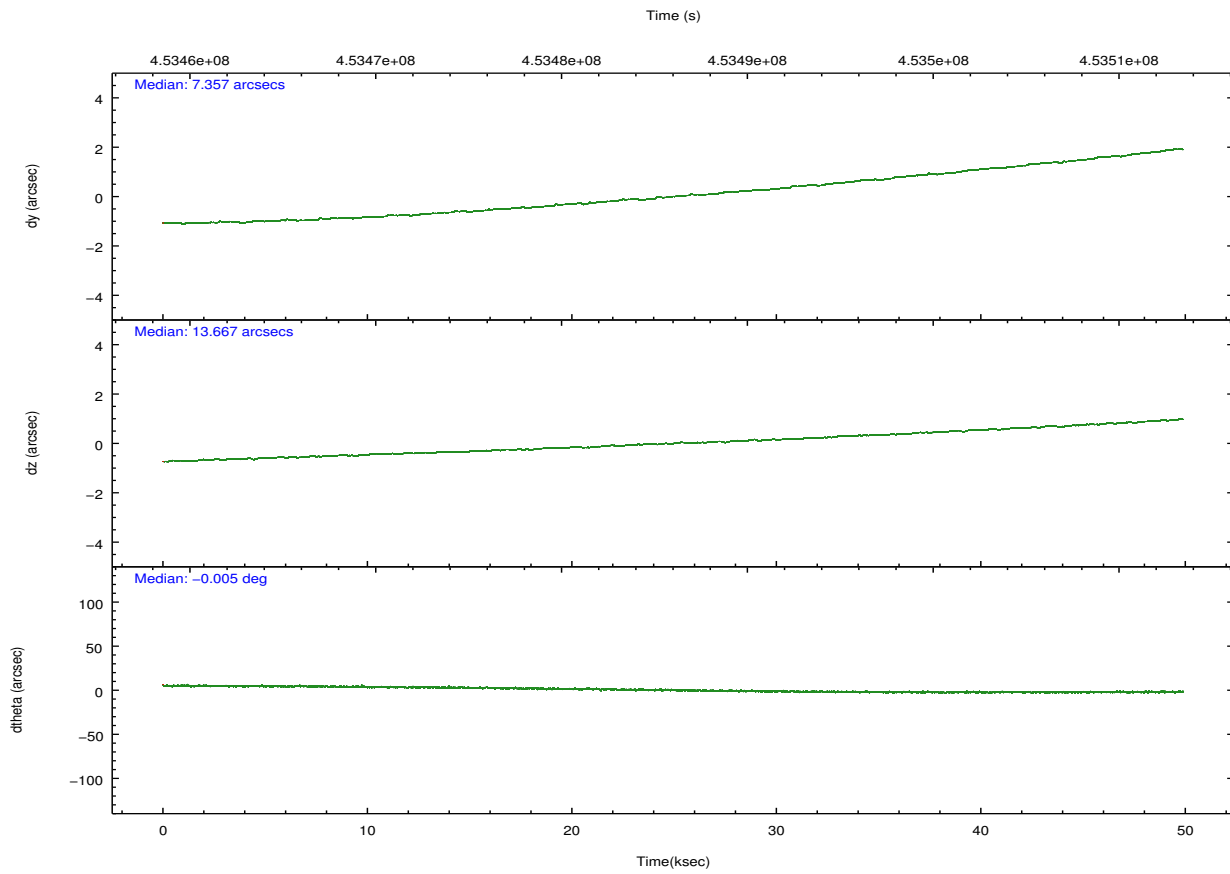
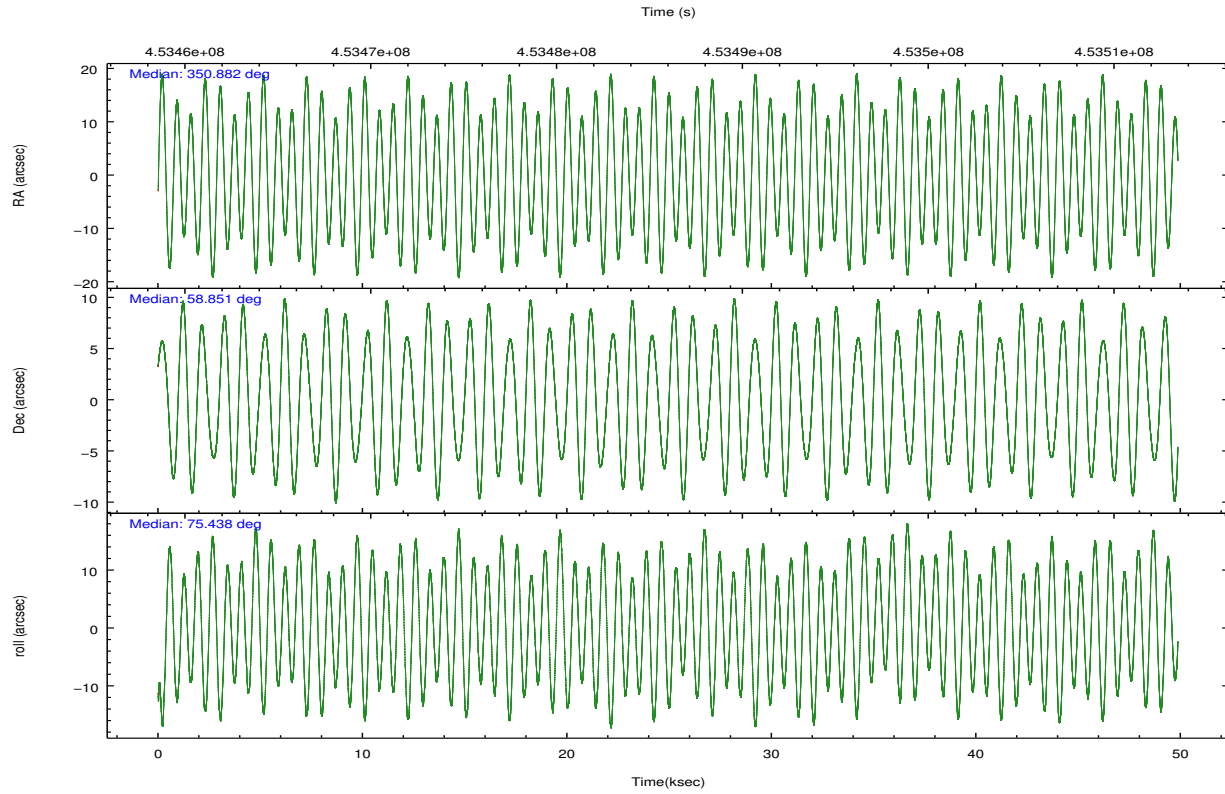
	<b>ccd 7</b>
grade 0 events	2940507
	20%
grade 1 events	47213
	0%
grade 2 events	4154251
	28%
grade 3 events	1414219
	9%
grade 4 events	1387737
	9%
grade 5 events	242915
	1%
grade 6 events	3769656
	26%
grade 7 events	491721
	3%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.896150	350.8814295219696	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.824643	58.85089425711806	Alternating exposures requested	N	N
[deg] Pointing Roll	75.270812	75.44003307812339	[s] Primary exposure time	0.000000	3
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	453461271.184000	453460576.76559			
Observation start date	2012-05-15T09:26:45	2012-05-15T09:16:16			
[s] Observation end time (MET)	453510941.184000	453511168.20578			
Observation end date	2012-05-15T23:14:35	2012-05-15T23:19:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



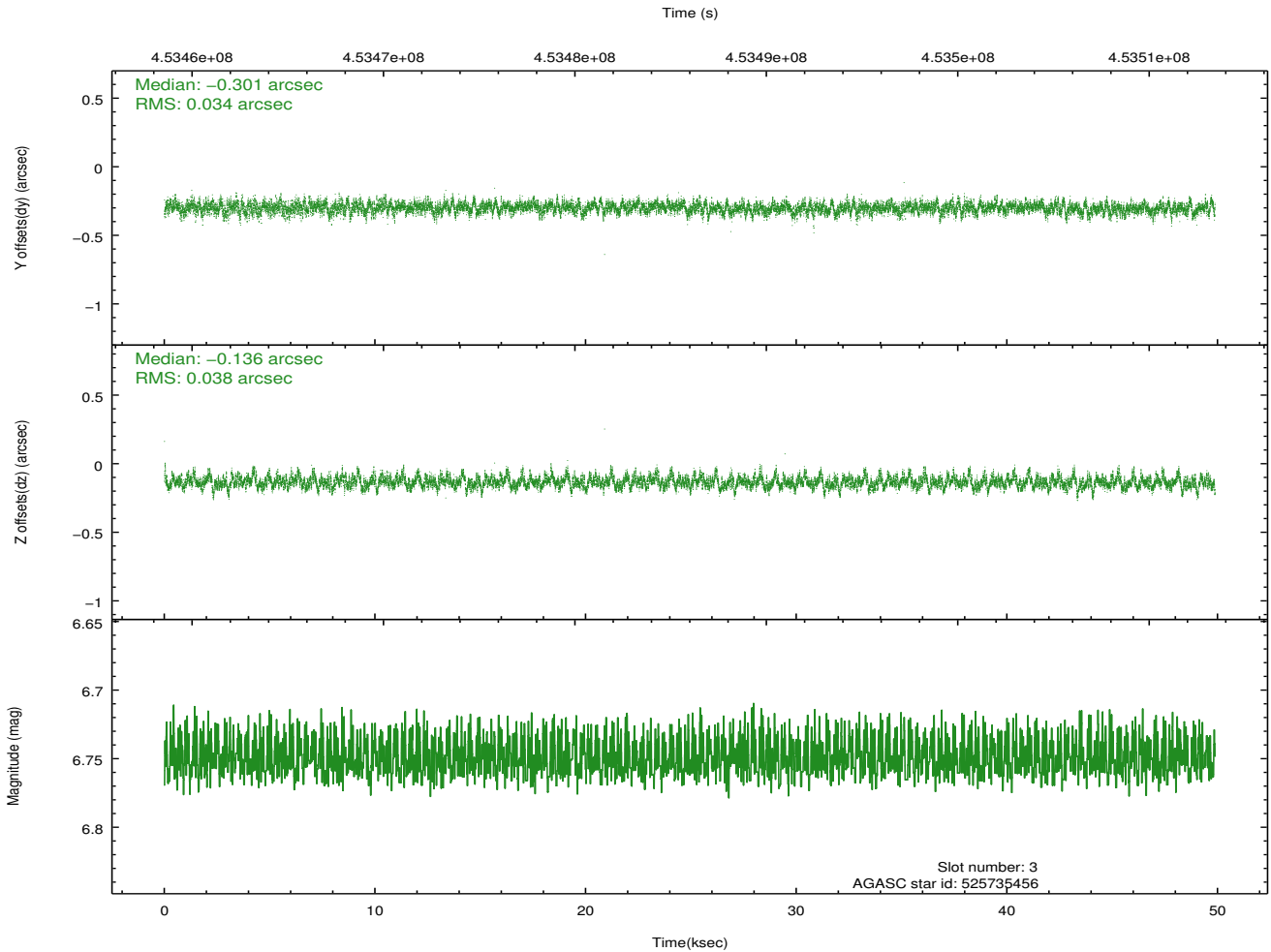
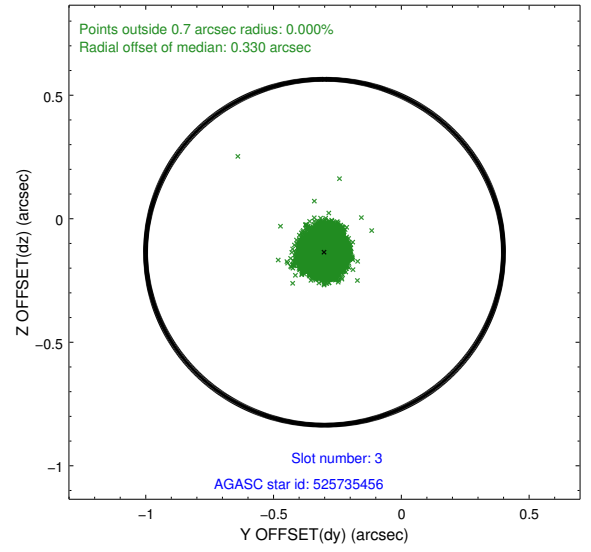
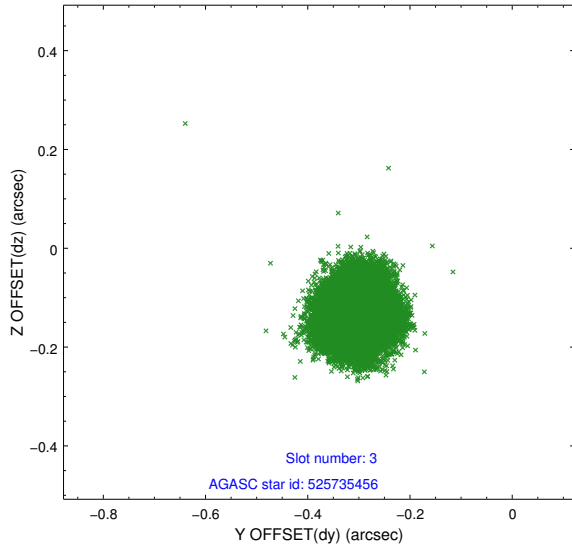


### Slot Statistics

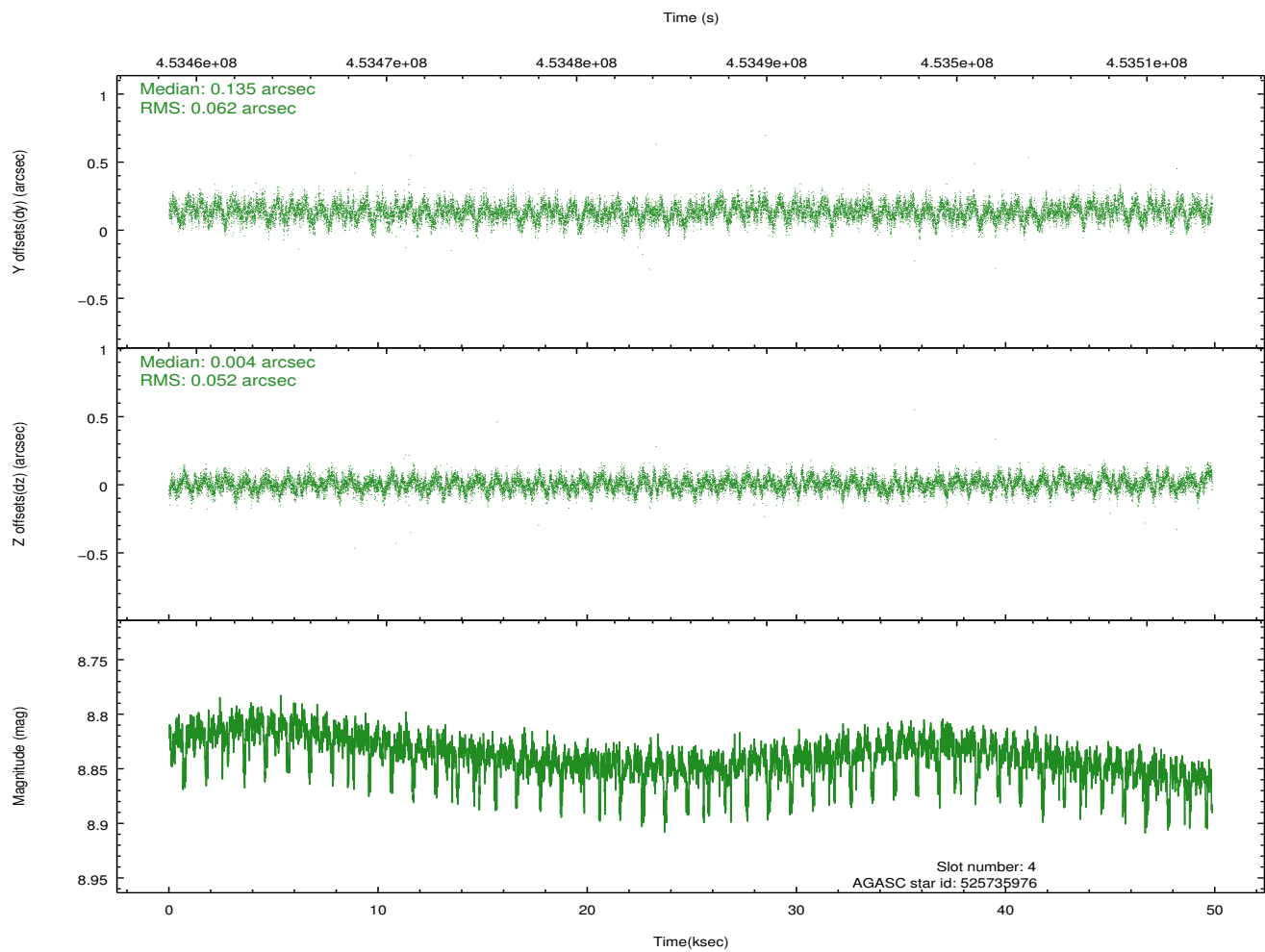
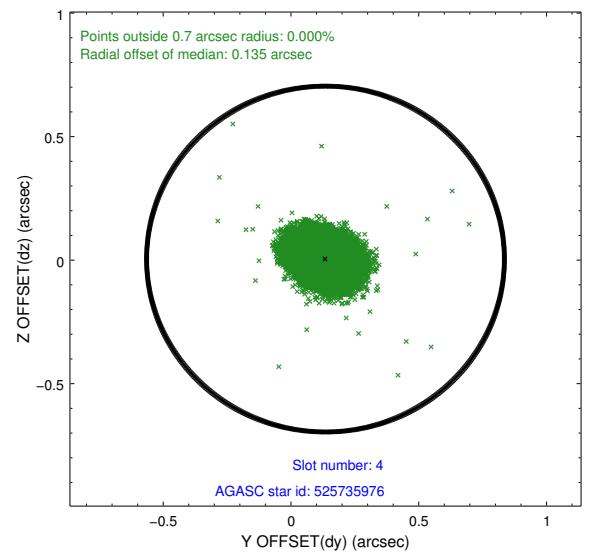
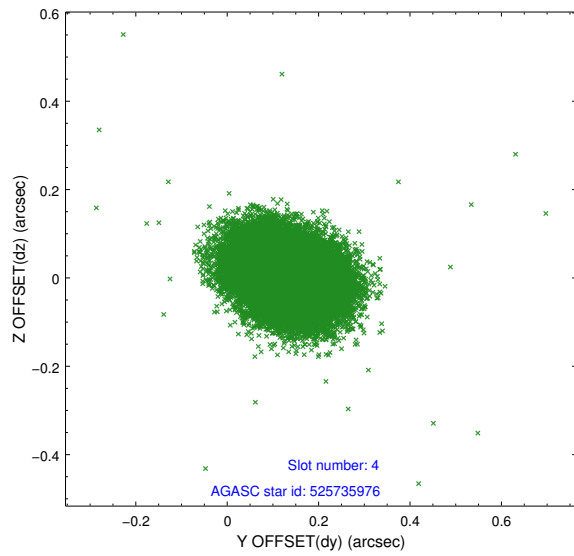
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.98	12164	0.073	-0.035	0.012	0.022	0.000000	0.000000	935.85	-1730.66
1	FID	ACIS-S-5	7.02	12163	-0.098	0.059	0.021	0.057	0.000000	0.000000	-1813.32	167.02
2	FID	ACIS-S-6	7.12	12165	0.001	-0.012	0.023	0.066	0.000000	0.000000	401.39	810.87
3	GUIDE	525735456	6.75	24324	-0.301	-0.136	0.054	0.089	350.628183	59.307249	1555.74	918.42
4	GUIDE	525735976	8.84	24316	0.135	0.004	0.085	0.139	350.142956	58.277622	-2259.15	880.45
5	GUIDE	525737896	7.03	24328	-0.064	0.190	0.070	0.117	352.012180	59.335036	2314.68	-1510.00
6	GUIDE	525600376	8.29	24320	0.158	0.023	0.067	0.109	349.956653	59.633357	2392.90	2397.31
7	GUIDE	525732488	8.40	24323	0.067	-0.083	0.069	0.113	350.087090	58.516915	-1448.96	1191.76

## 2.4 Star Slots

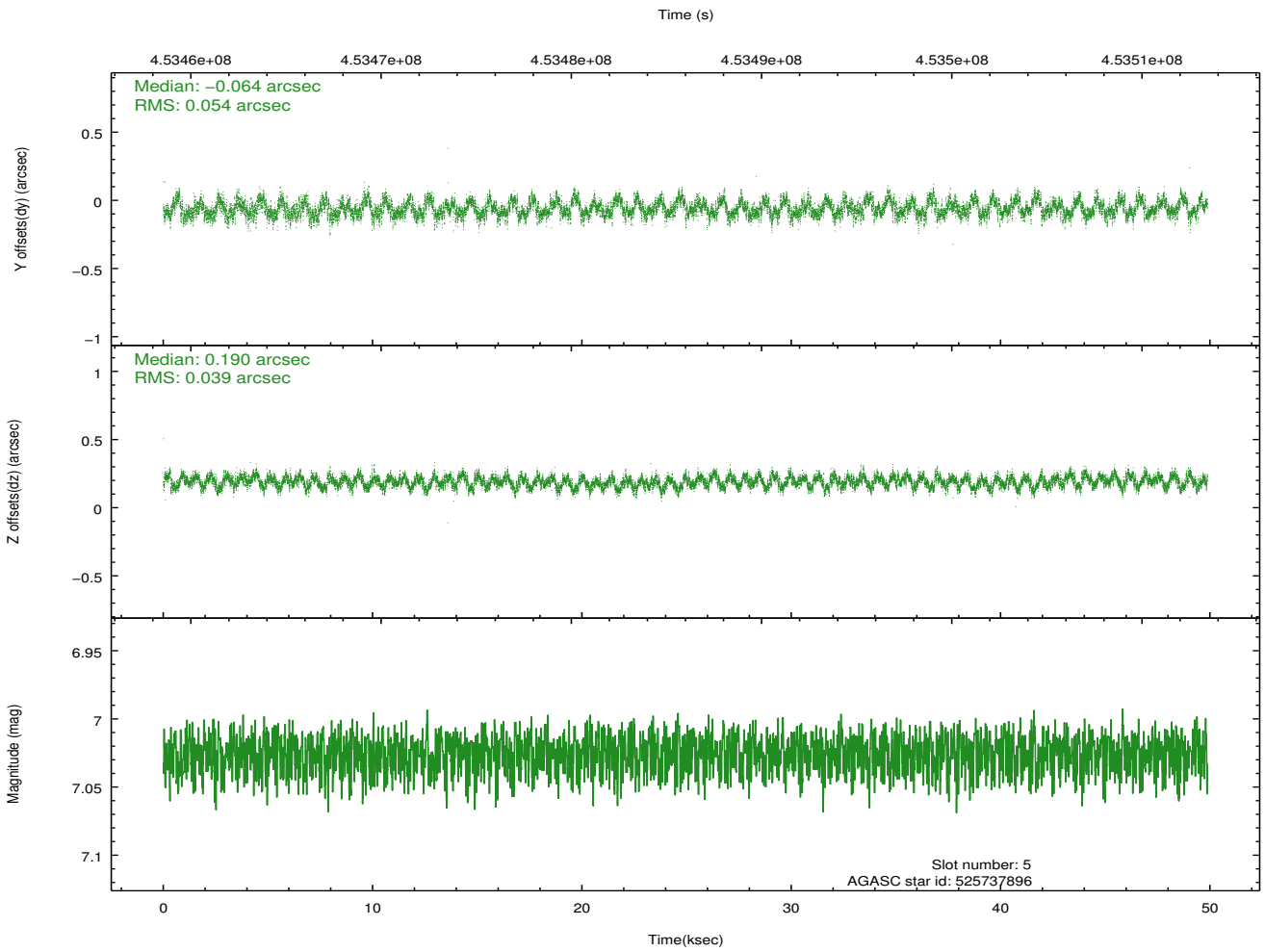
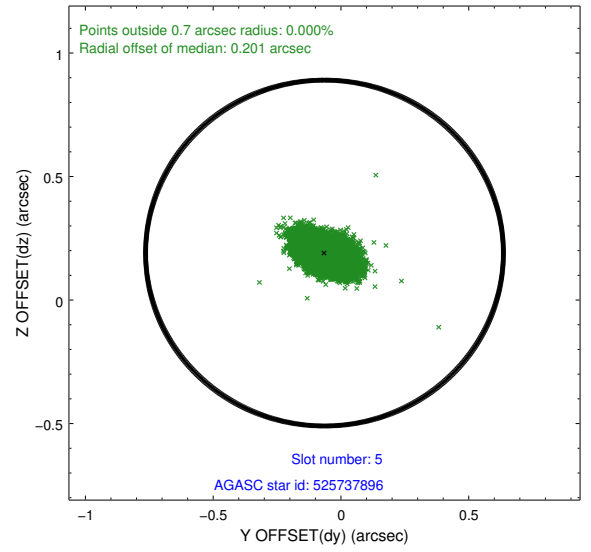
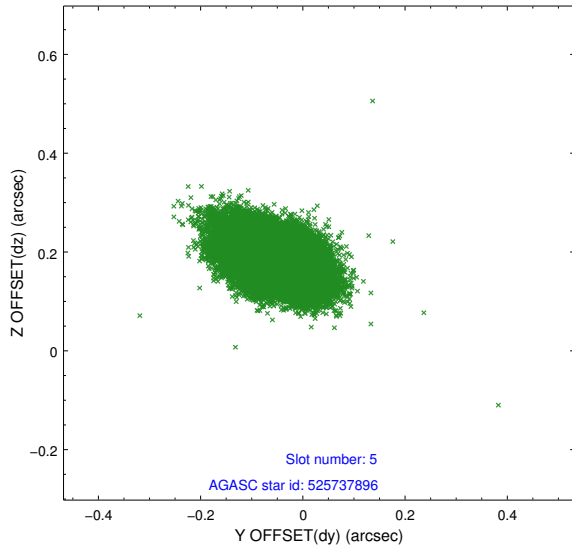
### 2.4.1 Slot 3



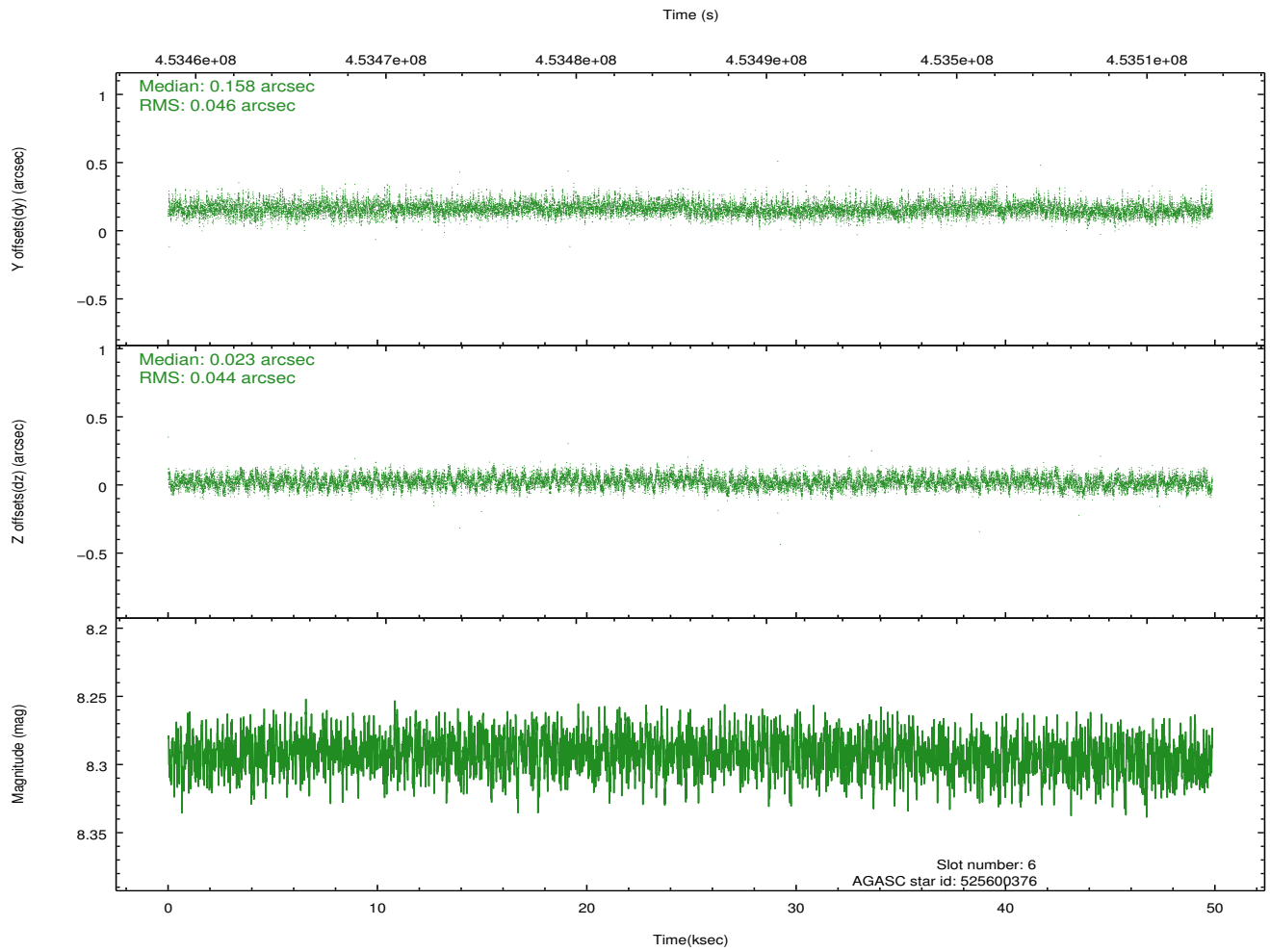
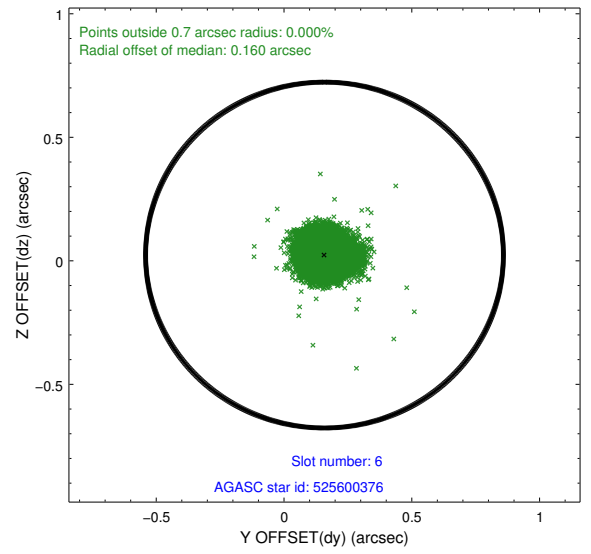
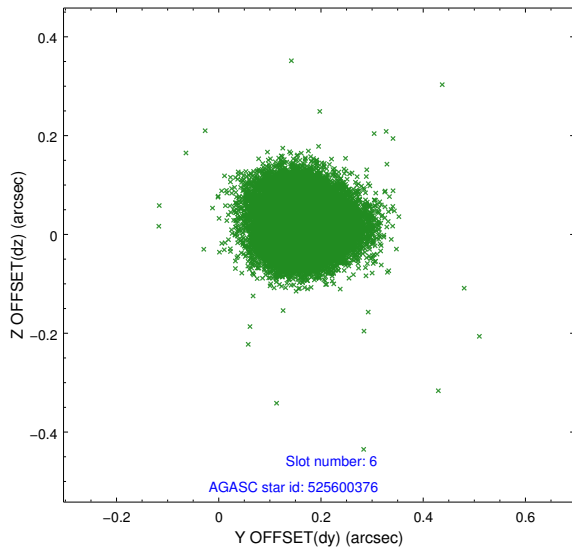
## 2.4.2 Slot 4



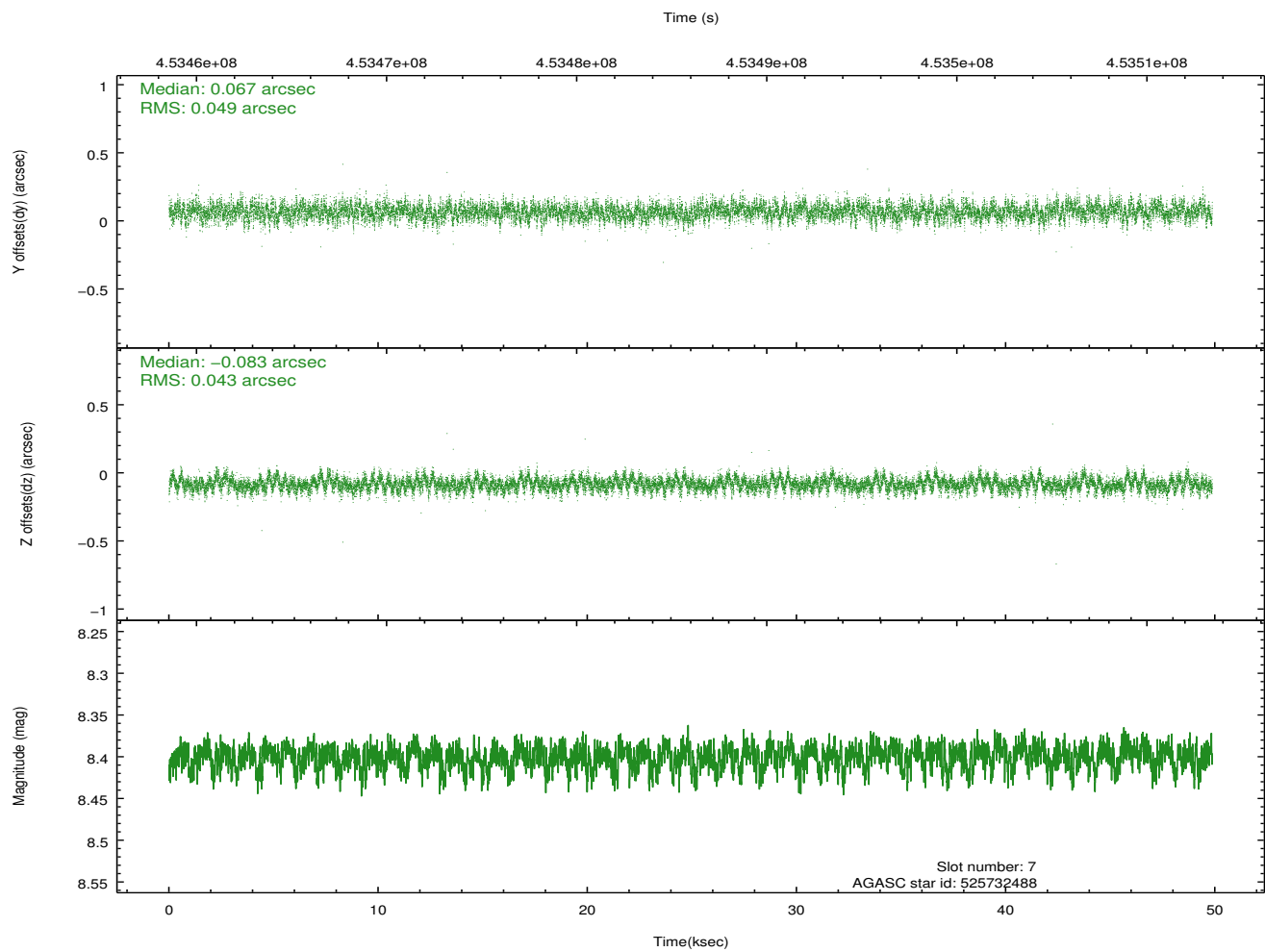
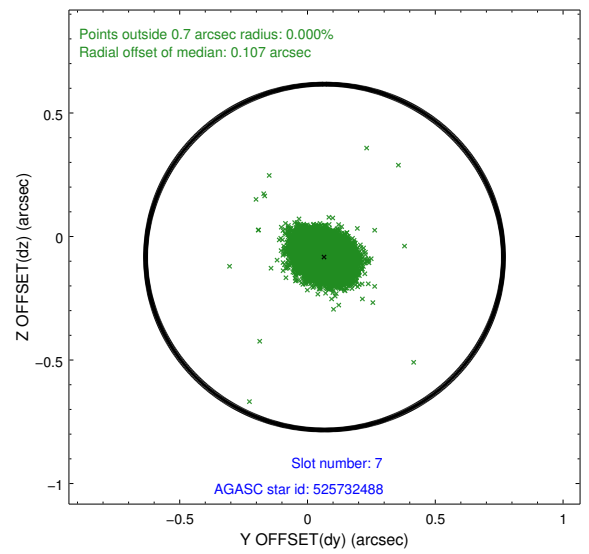
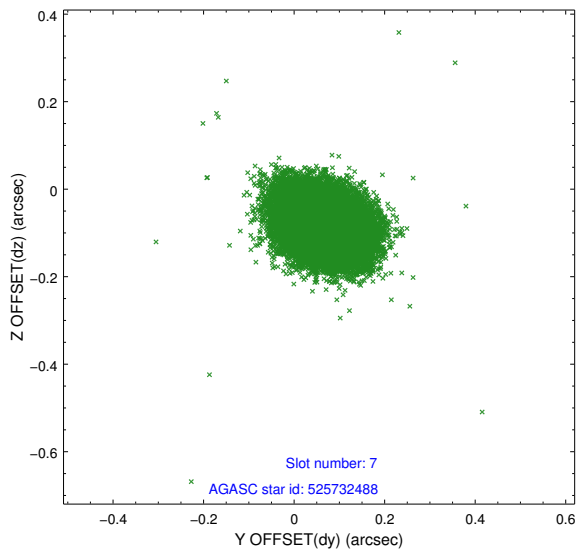
### 2.4.3 Slot 5



## 2.4.4 Slot 6

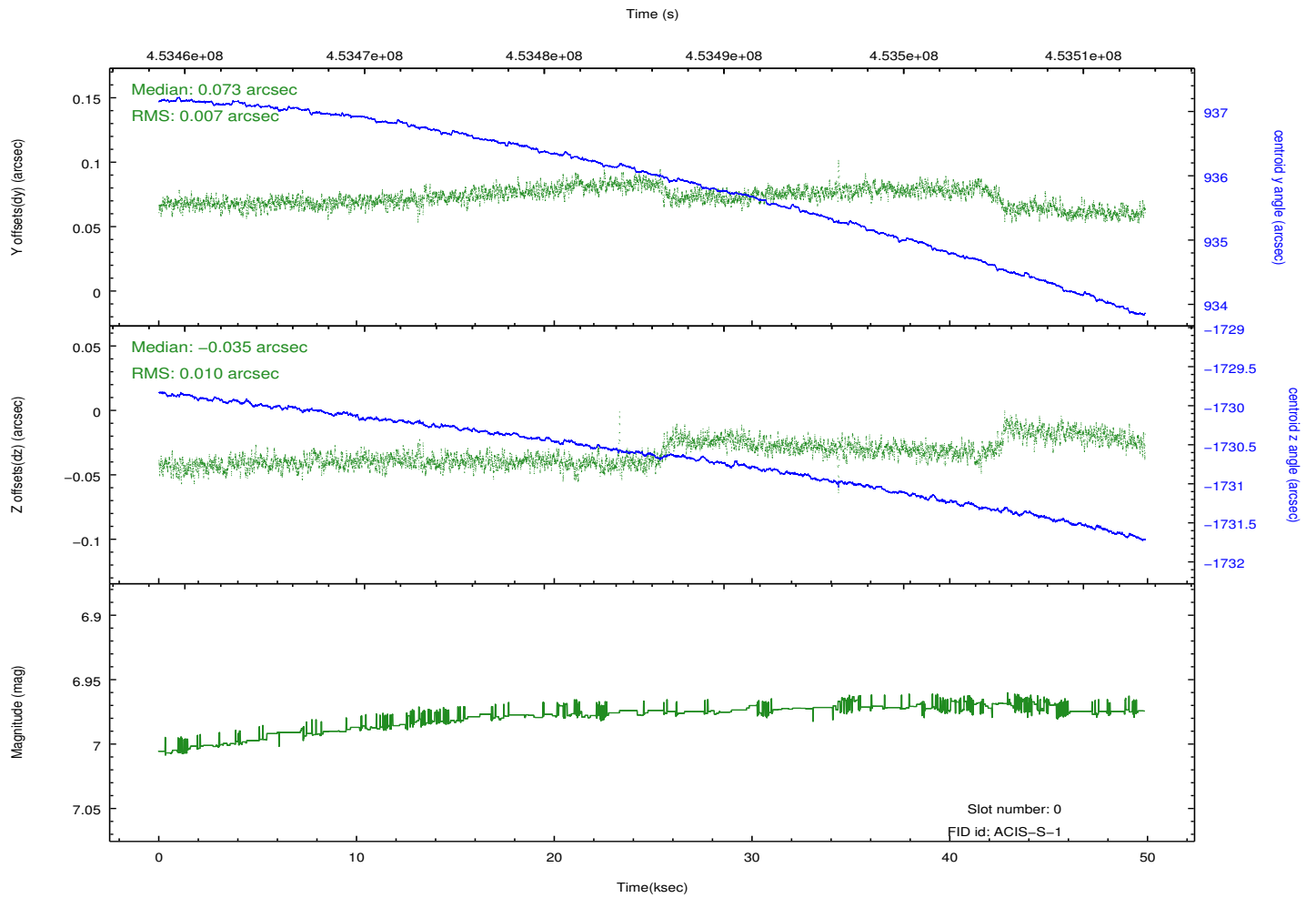
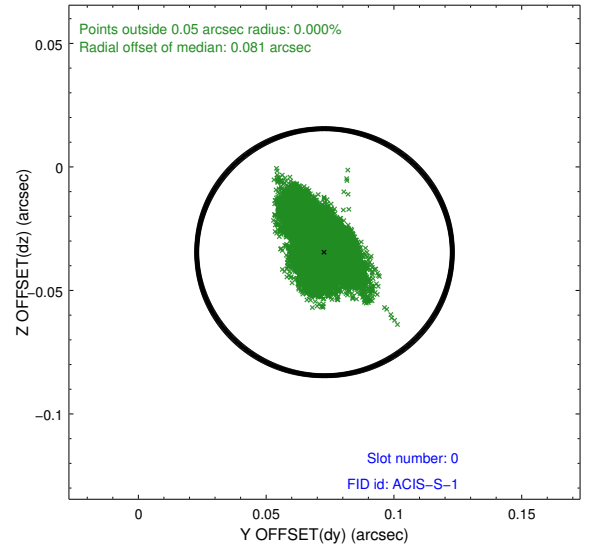
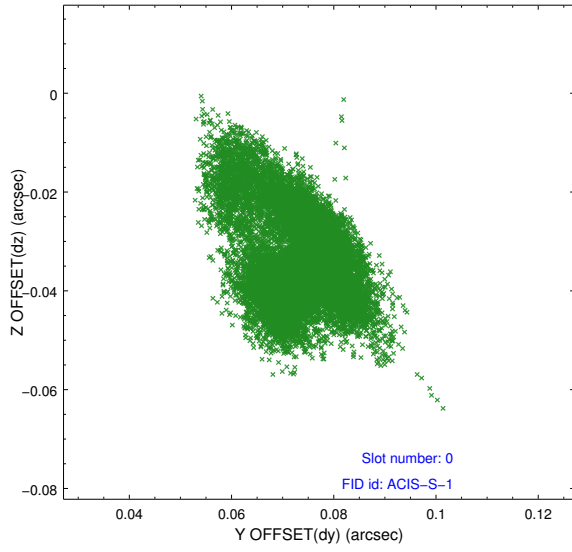


## 2.4.5 Slot 7

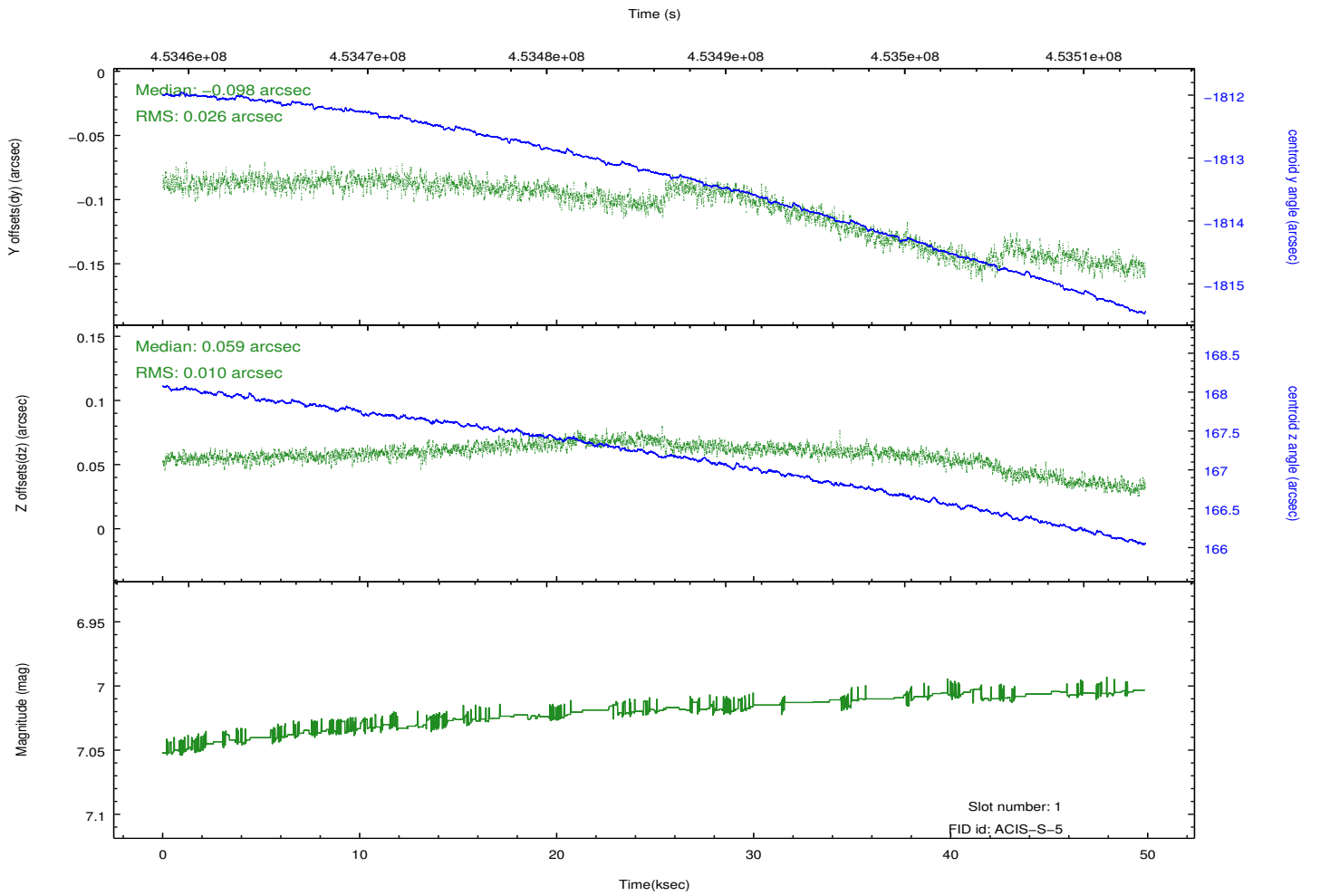
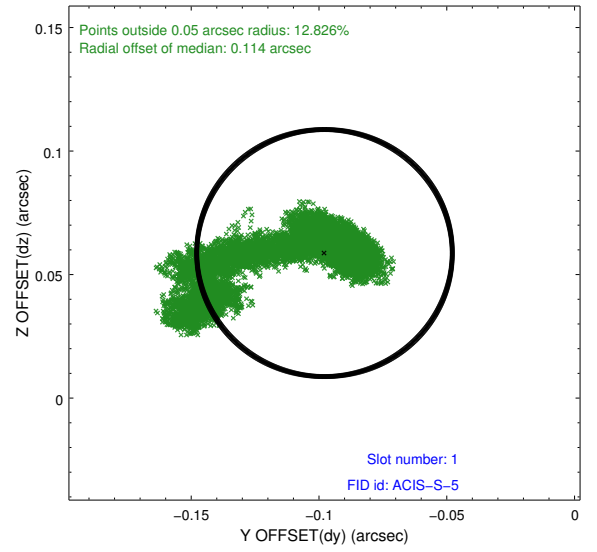
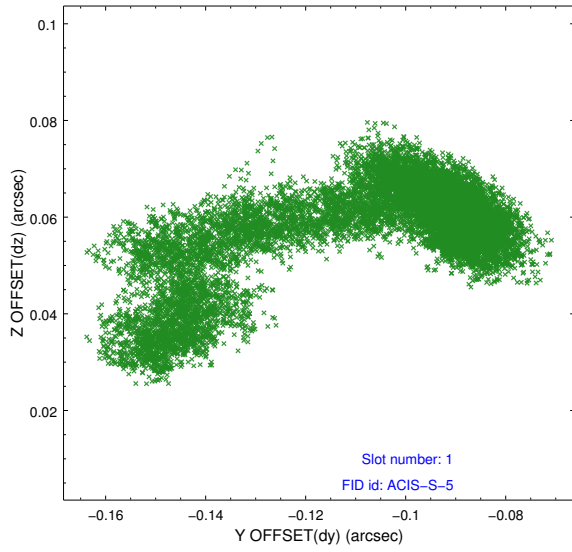


## 2.5 FID Slots

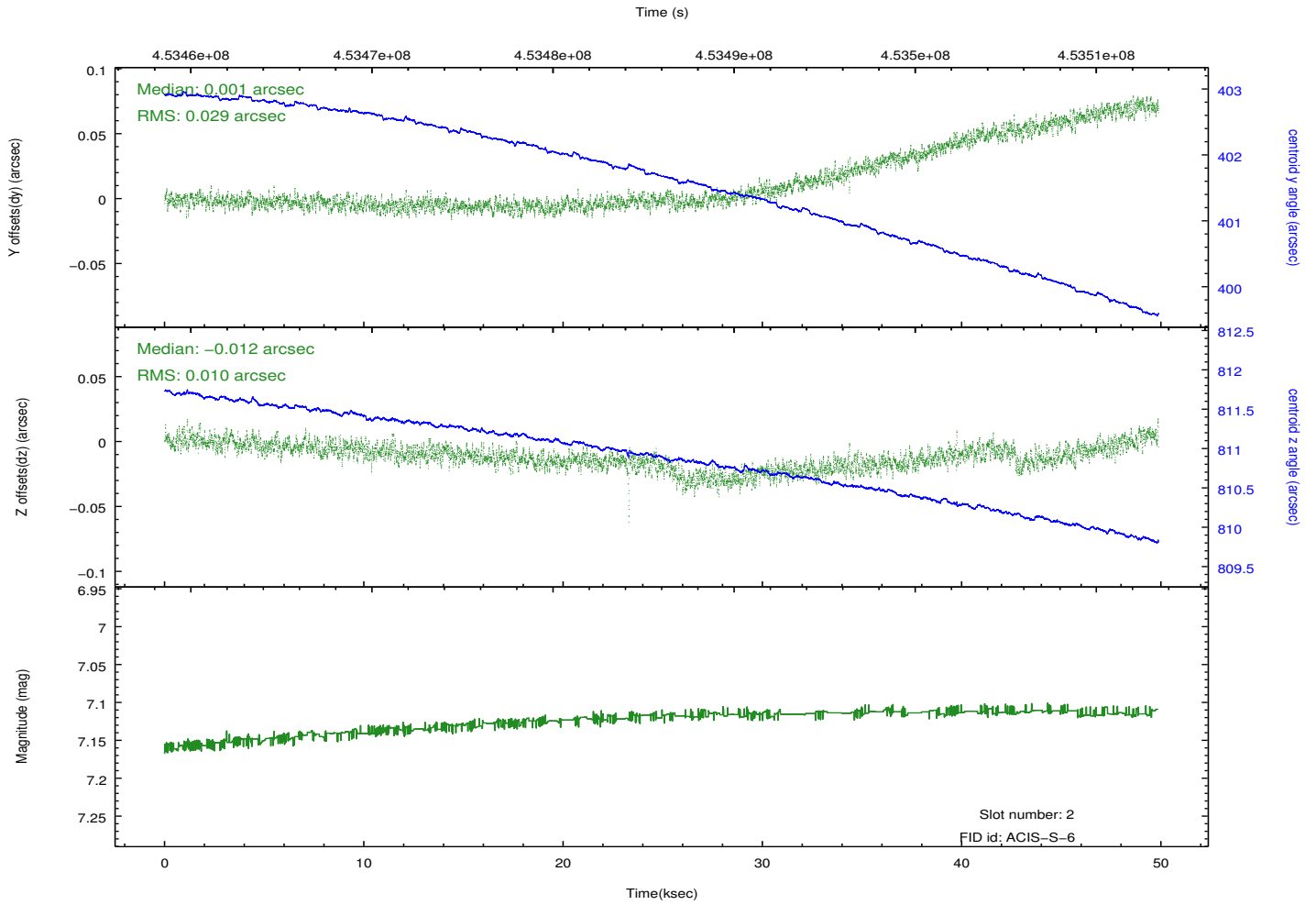
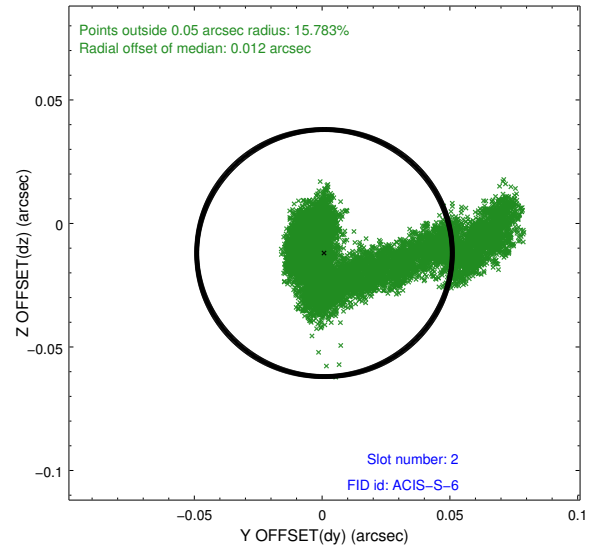
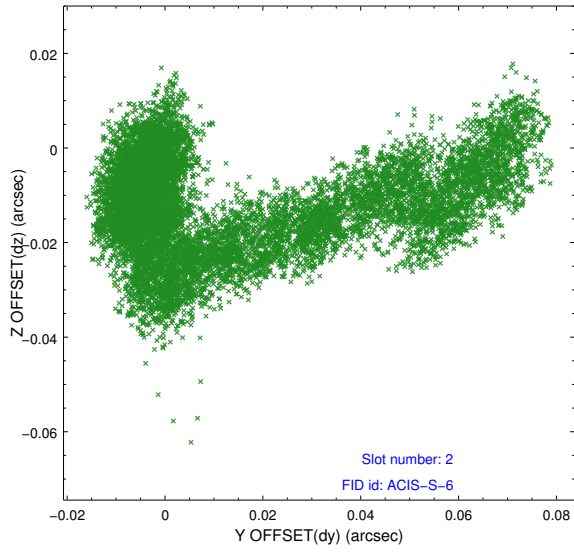
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.760237832904

## A.2 Comments