

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 194 - L2 Version 4  
Chandra X-Ray Center

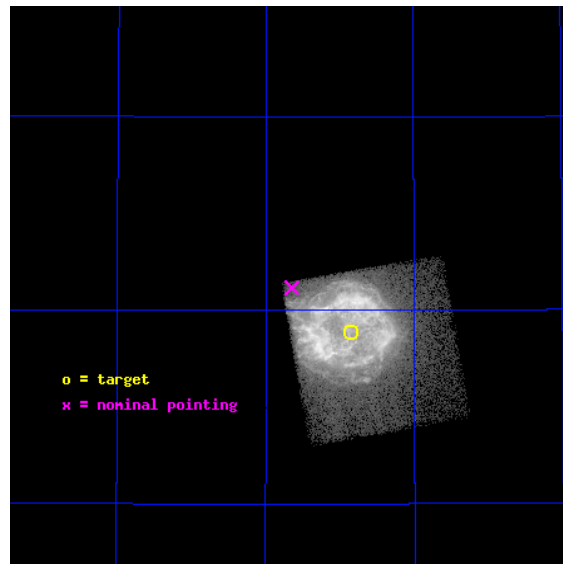
L2 Processing Date : Aug 27 2012

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# 1 Front

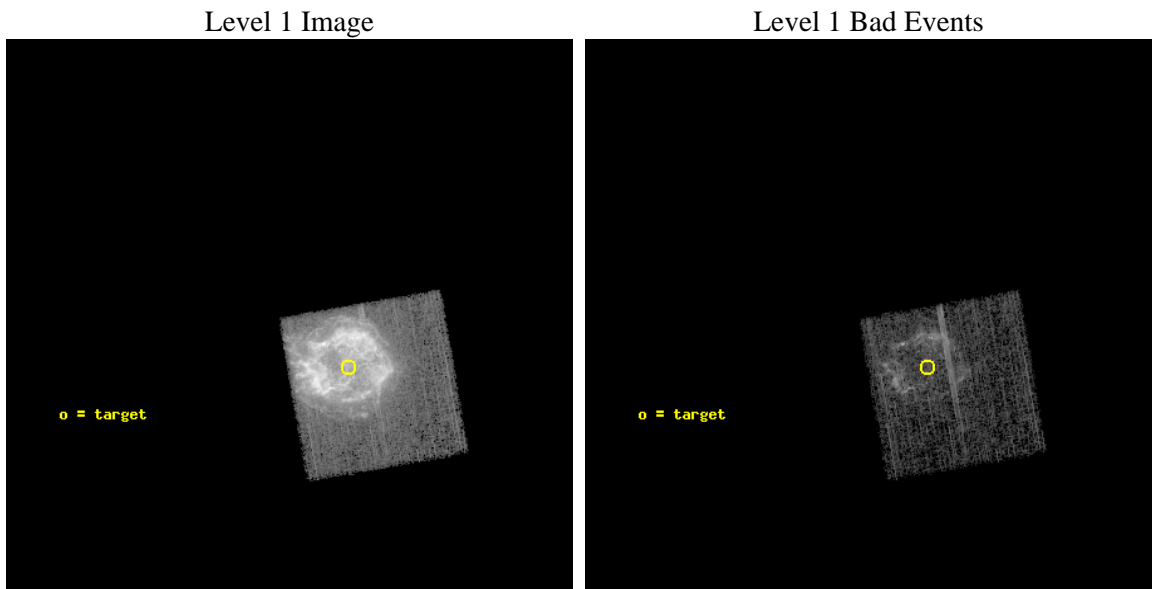
seq_num	590062	Sequence number
obs_id	194	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JUL. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip I3, T=120, Offsets=-2,2,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.95598101999	Nominal RA [deg]
dec_nom	58.852757000128	Nominal Dec [deg]
roll_nom	80.130372804465	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3421.7254621089	Sum of GTIs [s]
livetime	3378.3975139919	Livetime [s]
ontime0	5035.8461283147	Sum of GTIs [s]
ontime1	5035.8050883114	Sum of GTIs [s]
ontime2	5035.764048323	Sum of GTIs [s]
ontime3	3421.7254621089	Sum of GTIs [s]
ontime6	5035.6819683164	Sum of GTIs [s]
ontime7	5035.887168318	Sum of GTIs [s]
l2events	763482	Number of level 2 events



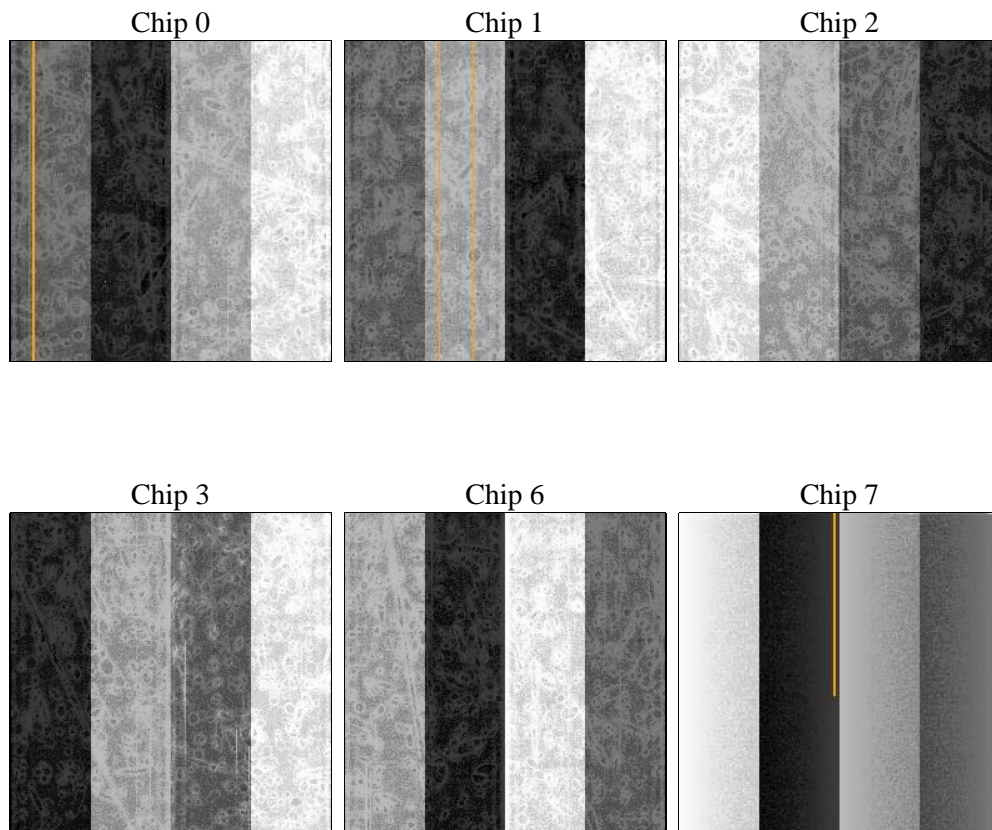
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5222.570000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3421.7254621089	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	5035.8461283147	Sum of GTIs [s]
date	2012-08-27T20:02:21	Date and time of file creation	ontime1	5035.8050883114	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	5035.764048323	Sum of GTIs [s]
			ontime3	3421.7254621089	Sum of GTIs [s]
			ontime6	5035.6819683164	Sum of GTIs [s]
			ontime7	5035.887168318	Sum of GTIs [s]
			l1events	917976	Number of level 1 events

### 2.1.4 Events

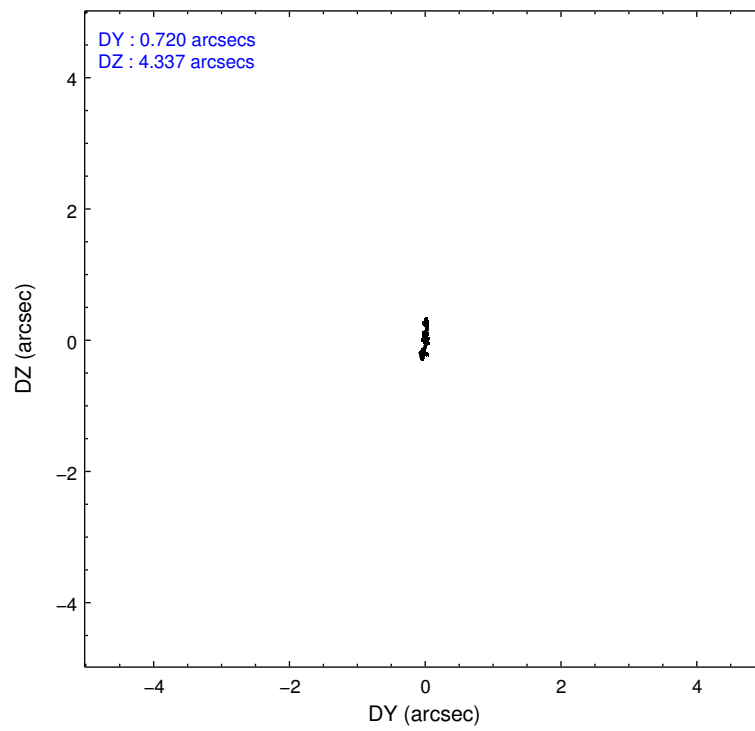
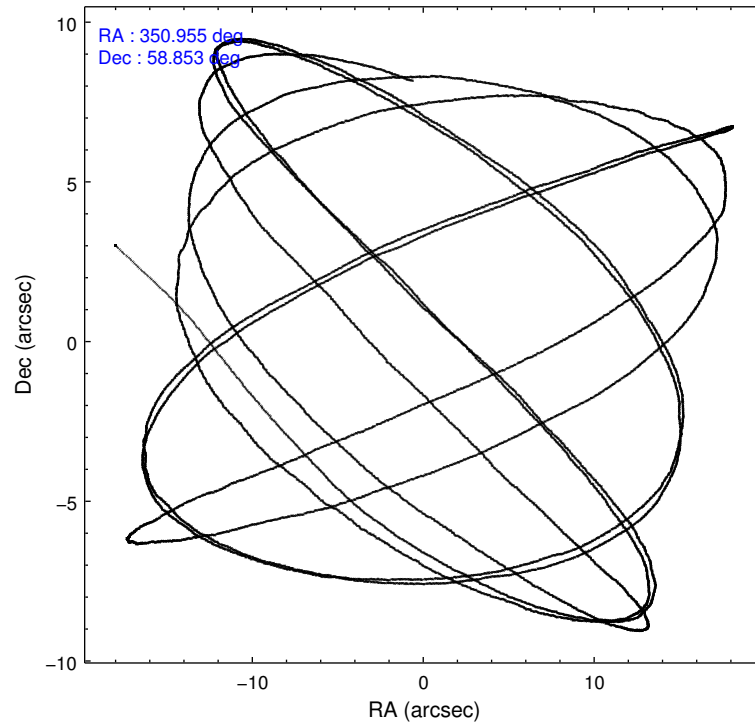
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	0	917976	0	0
rejected events	0	0	0	129591	0	0
rejected %	0%	0%	0%	14%	0%	0%

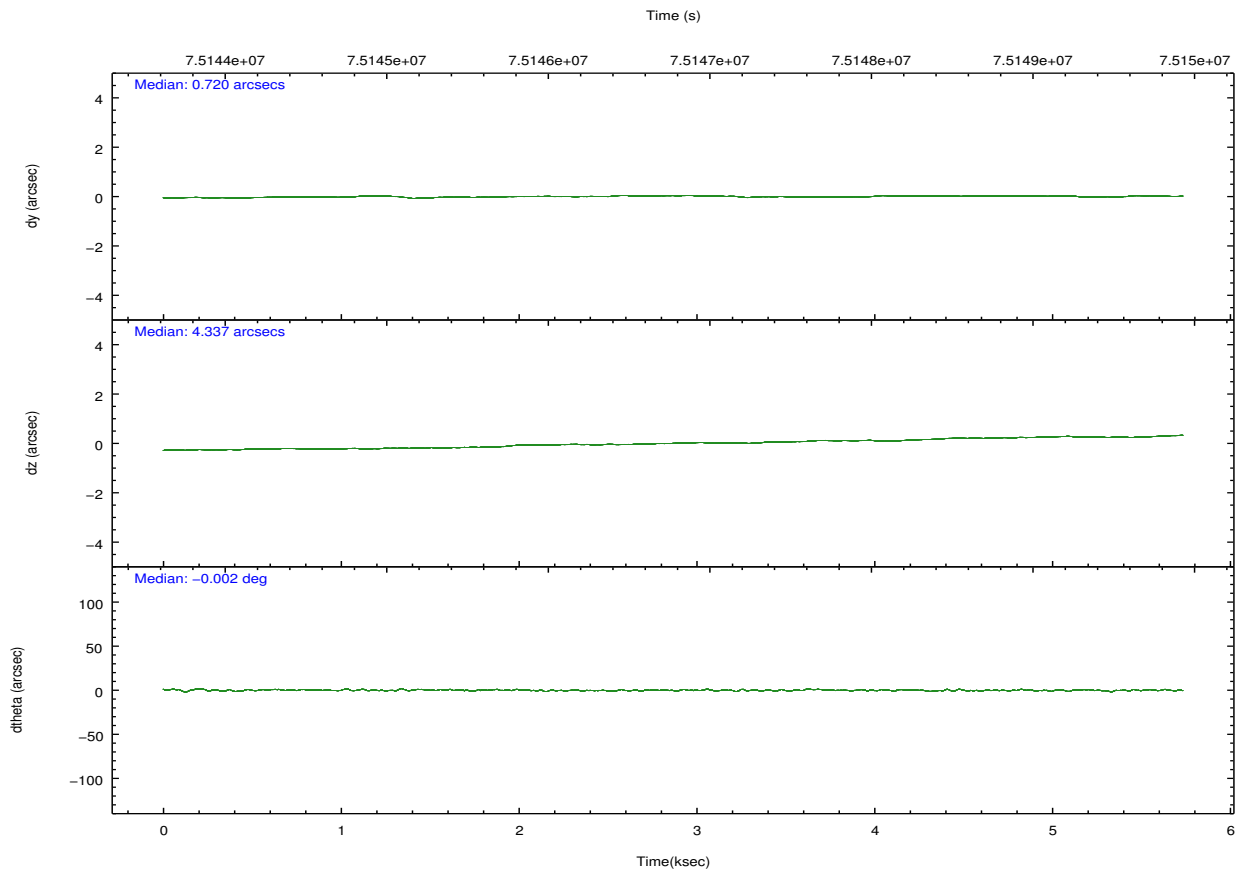
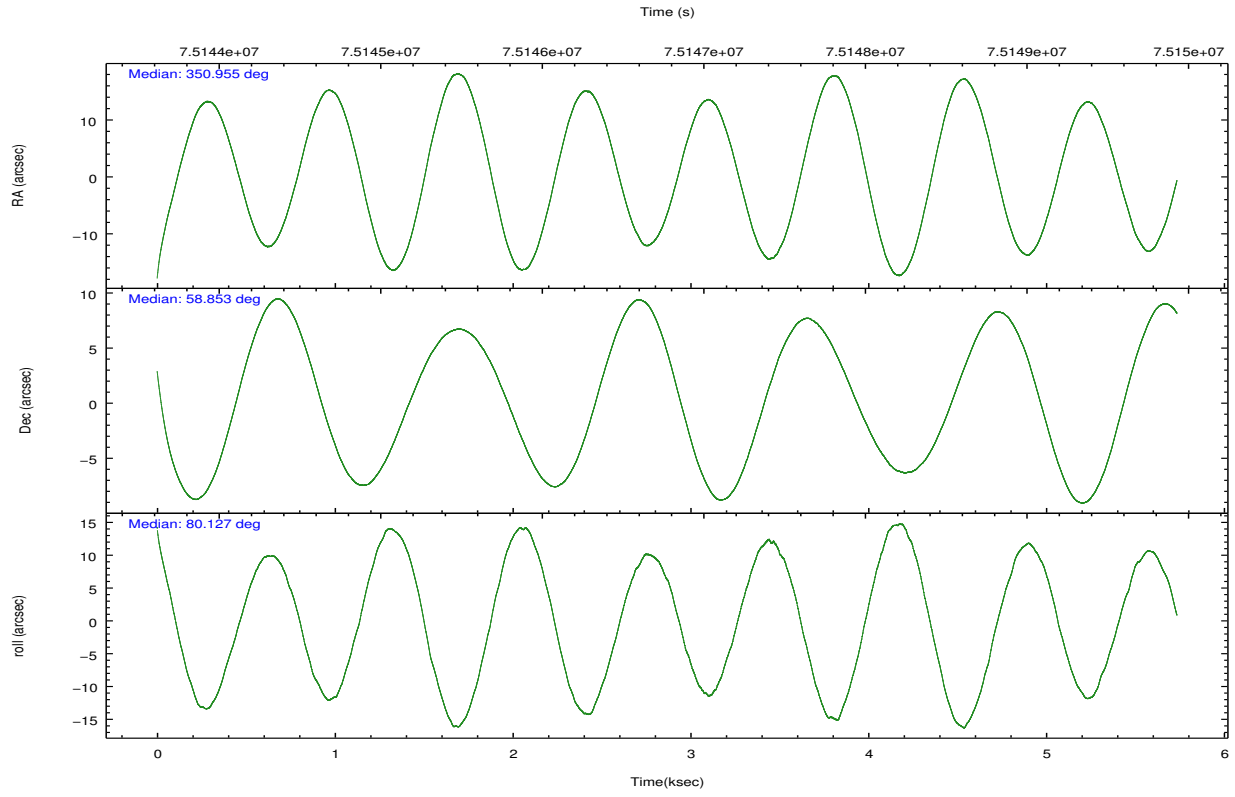
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	0	638470	0	0
	0%	0%	0%	69%	0%	0%
grade 1 events	0	0	0	10901	0	0
	0%	0%	0%	1%	0%	0%
grade 2 events	0	0	0	82599	0	0
	0%	0%	0%	8%	0%	0%
grade 3 events	0	0	0	25197	0	0
	0%	0%	0%	2%	0%	0%
grade 4 events	0	0	0	25415	0	0
	0%	0%	0%	2%	0%	0%
grade 5 events	0	0	0	6844	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	0	17423	0	0
	0%	0%	0%	1%	0%	0%
grade 7 events	0	0	0	111127	0	0
	0%	0%	0%	12%	0%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.974067	350.9559810199912	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.826830	58.8527570001282	Alternating exposures requested	N	N
[deg] Pointing Roll	79.906220	80.13037280446515	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	75144419.184000	75143296.30522899			
Observation start date	2000-05-19T17:25:55	2000-05-19T17:08:16			
[s] Observation end time (MET)	75149641.184000	75149951.117973			
Observation end date	2000-05-19T18:52:57	2000-05-19T18:59:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



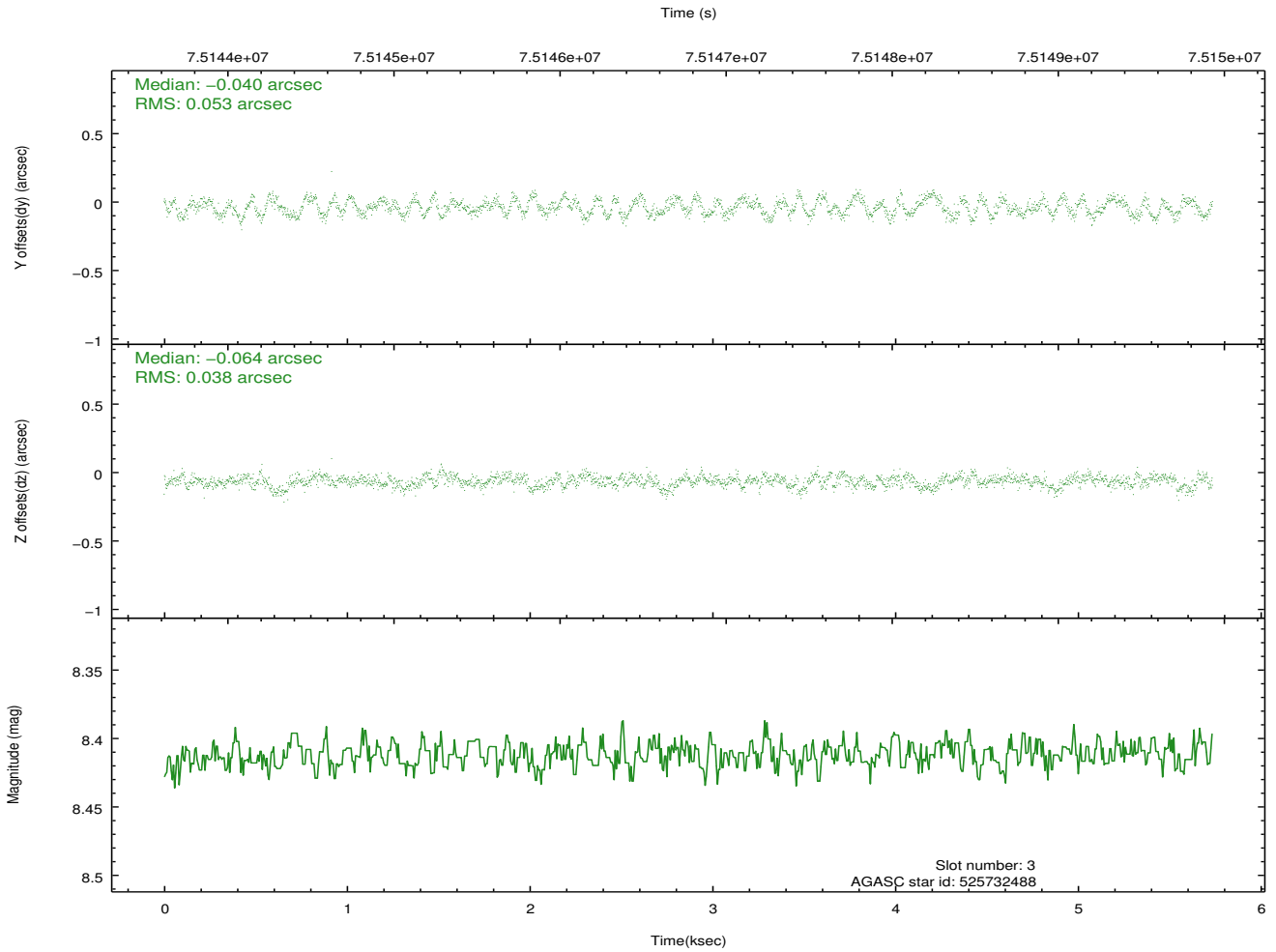
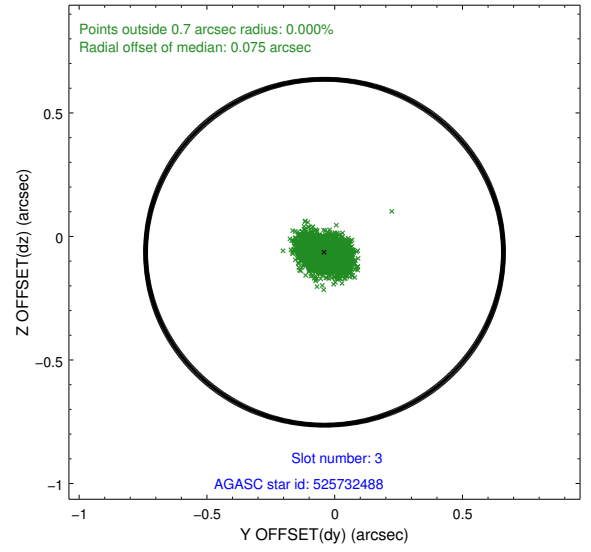
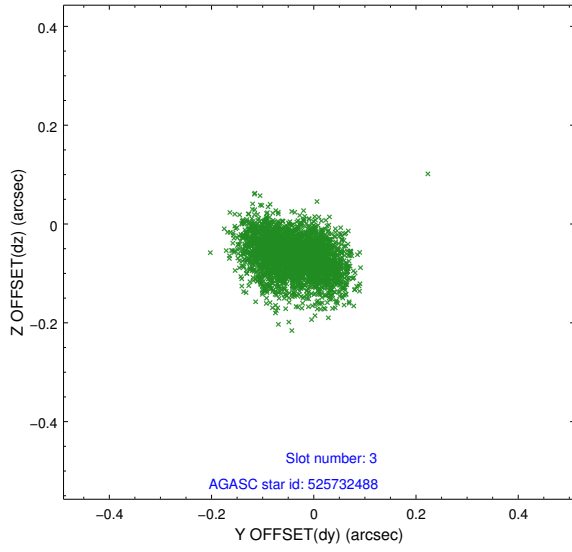


### Slot Statistics

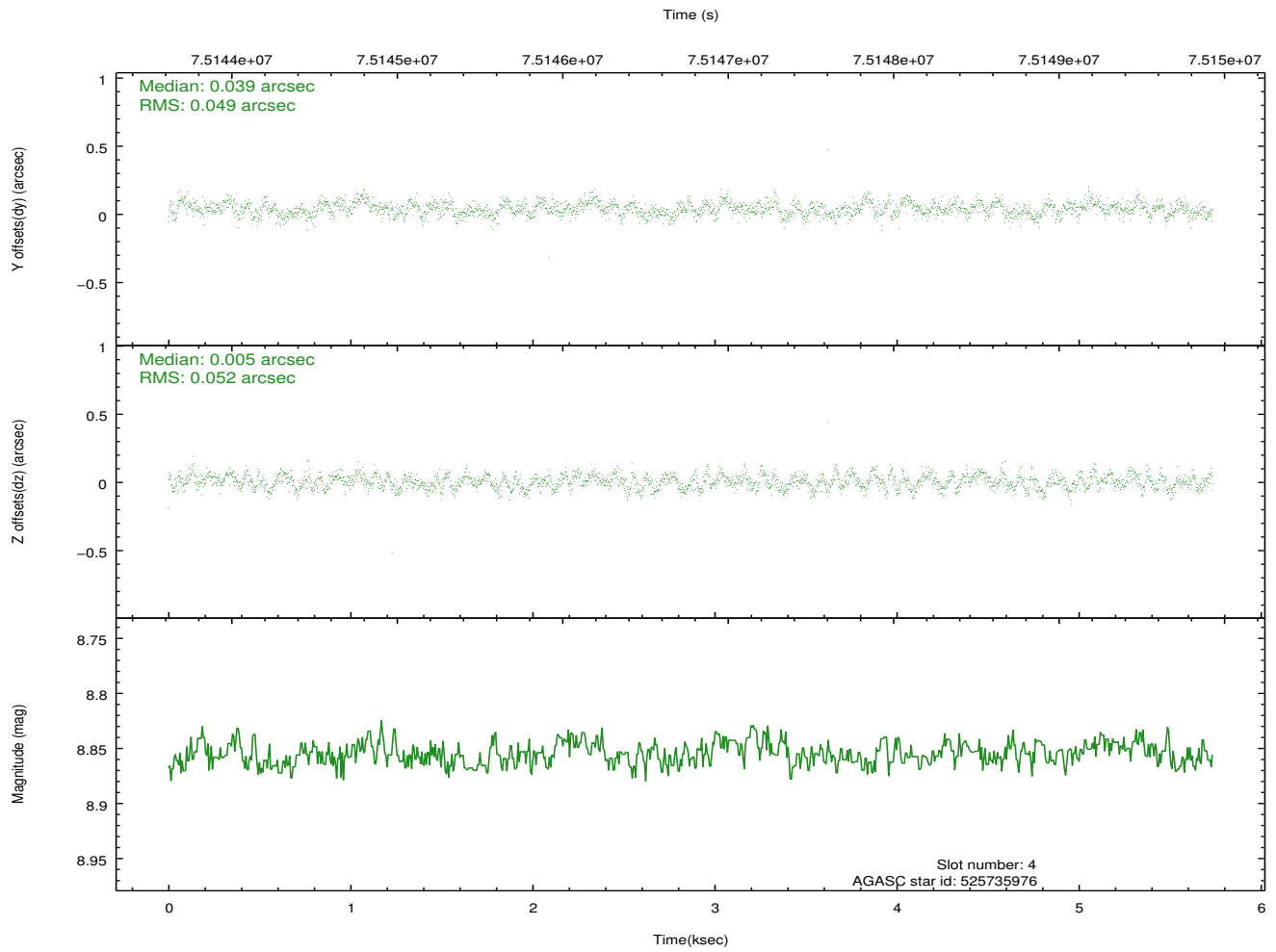
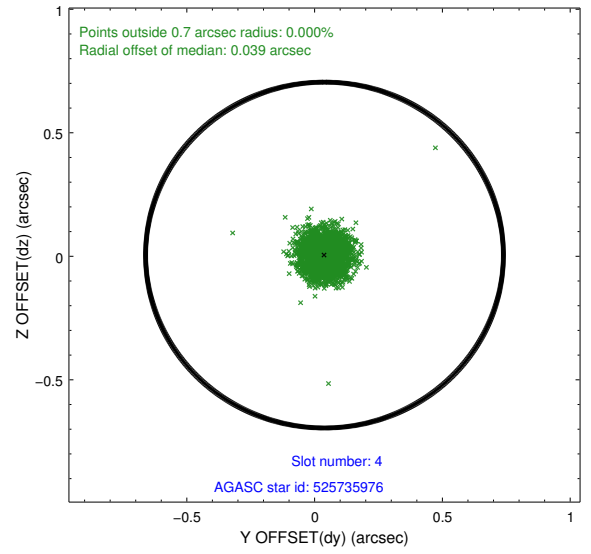
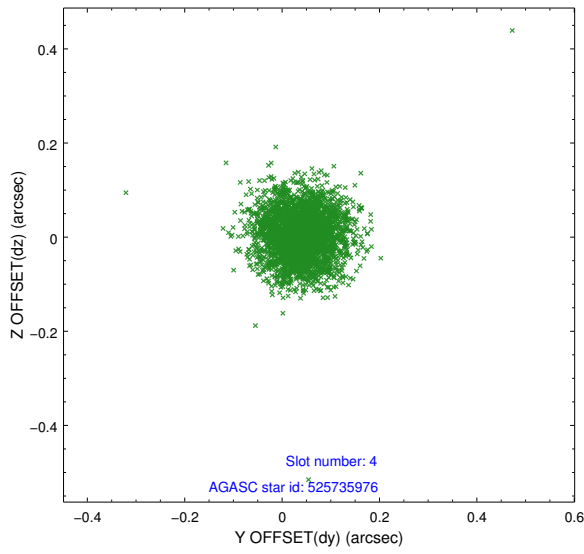
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1399	-0.031	-0.024	0.009	0.017	0.000000	0.000000	-755.06	-834.05
1	FID	ACIS-I-4	7.19	1398	-0.027	0.033	0.008	0.015	0.000000	0.000000	2158.53	1071.66
2	FID	ACIS-I-5	7.23	1399	-0.043	0.061	0.010	0.017	0.000000	0.000000	-1807.56	1070.73
3	GUIDE	525732488	8.41	2796	-0.040	-0.064	0.070	0.110	350.087090	58.516915	-1379.55	1446.98
4	GUIDE	525735976	8.86	2799	0.039	0.005	0.075	0.119	350.142956	58.277622	-2212.81	1203.42
5	GUIDE	525736400	9.06	2799	0.010	-0.138	0.061	0.099	350.974563	59.175145	1234.32	218.23
6	GUIDE	525732528	9.36	2799	-0.036	0.110	0.095	0.148	351.607241	59.298932	1883.56	-847.64
7	GUIDE	525734296	9.50	2795	0.026	0.083	0.085	0.142	351.276372	58.418153	-1346.12	-820.10

## 2.4 Star Slots

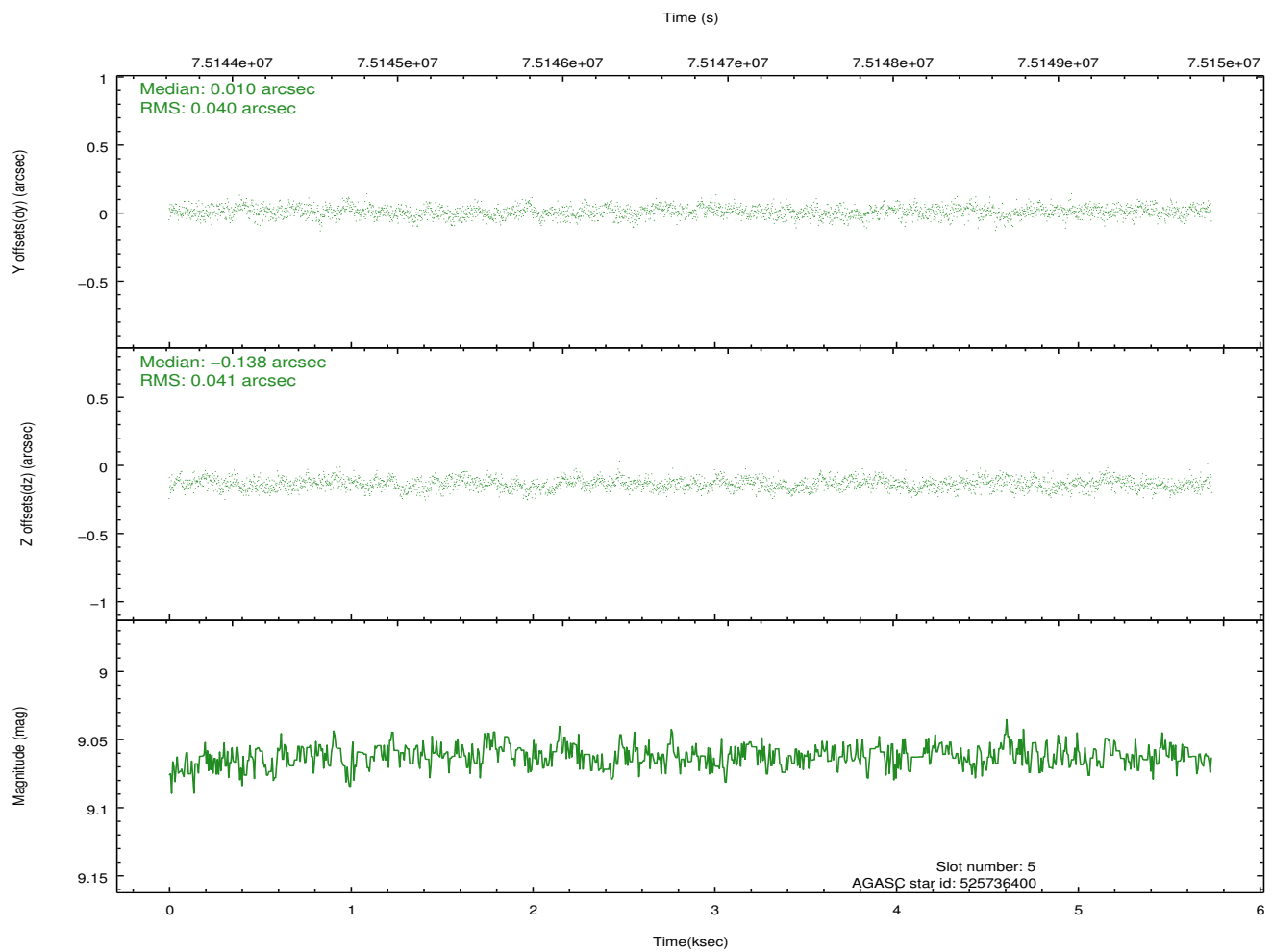
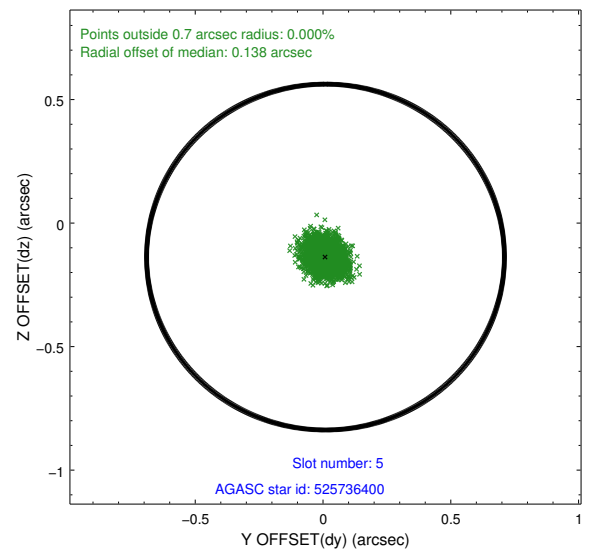
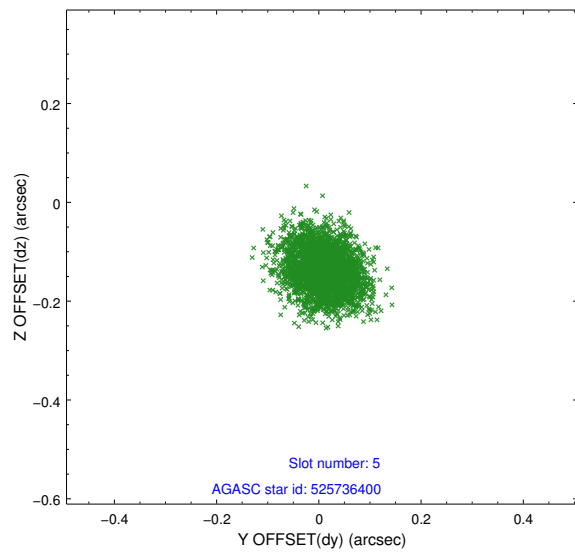
### 2.4.1 Slot 3



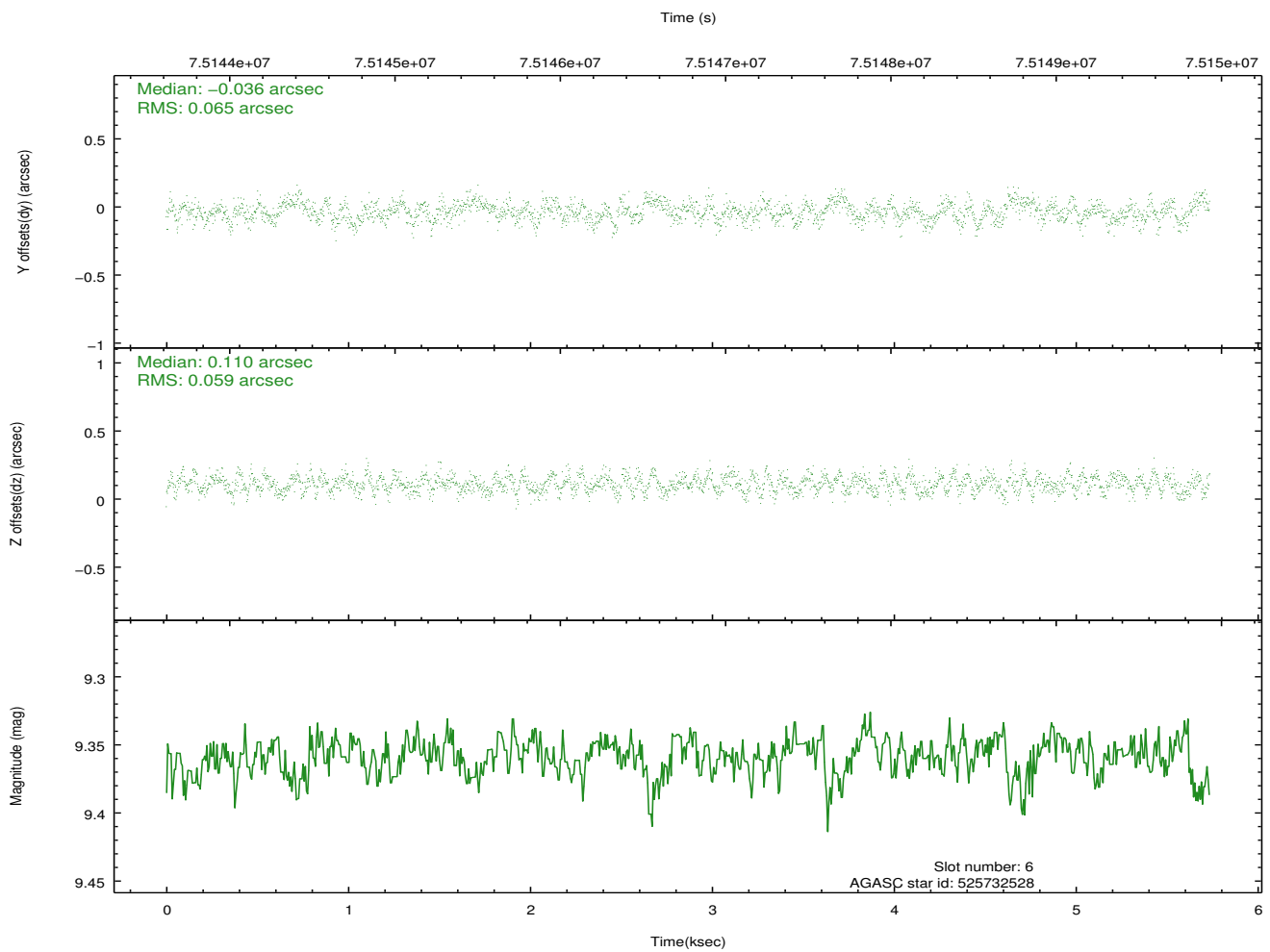
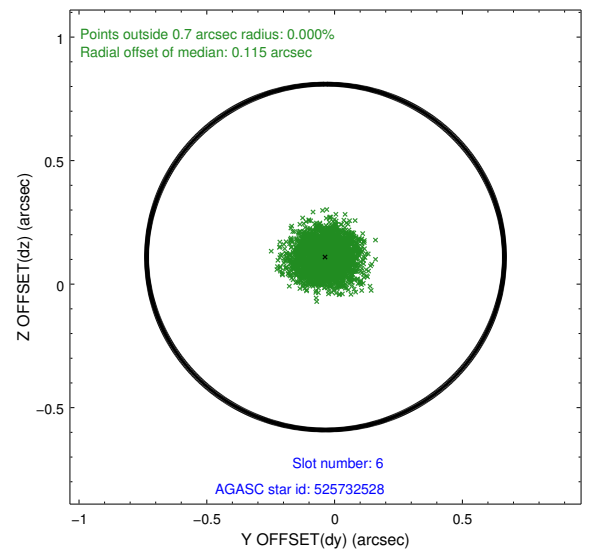
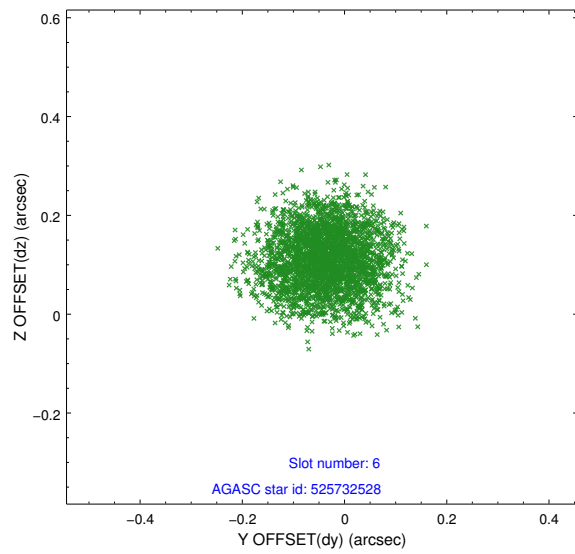
### 2.4.2 Slot 4



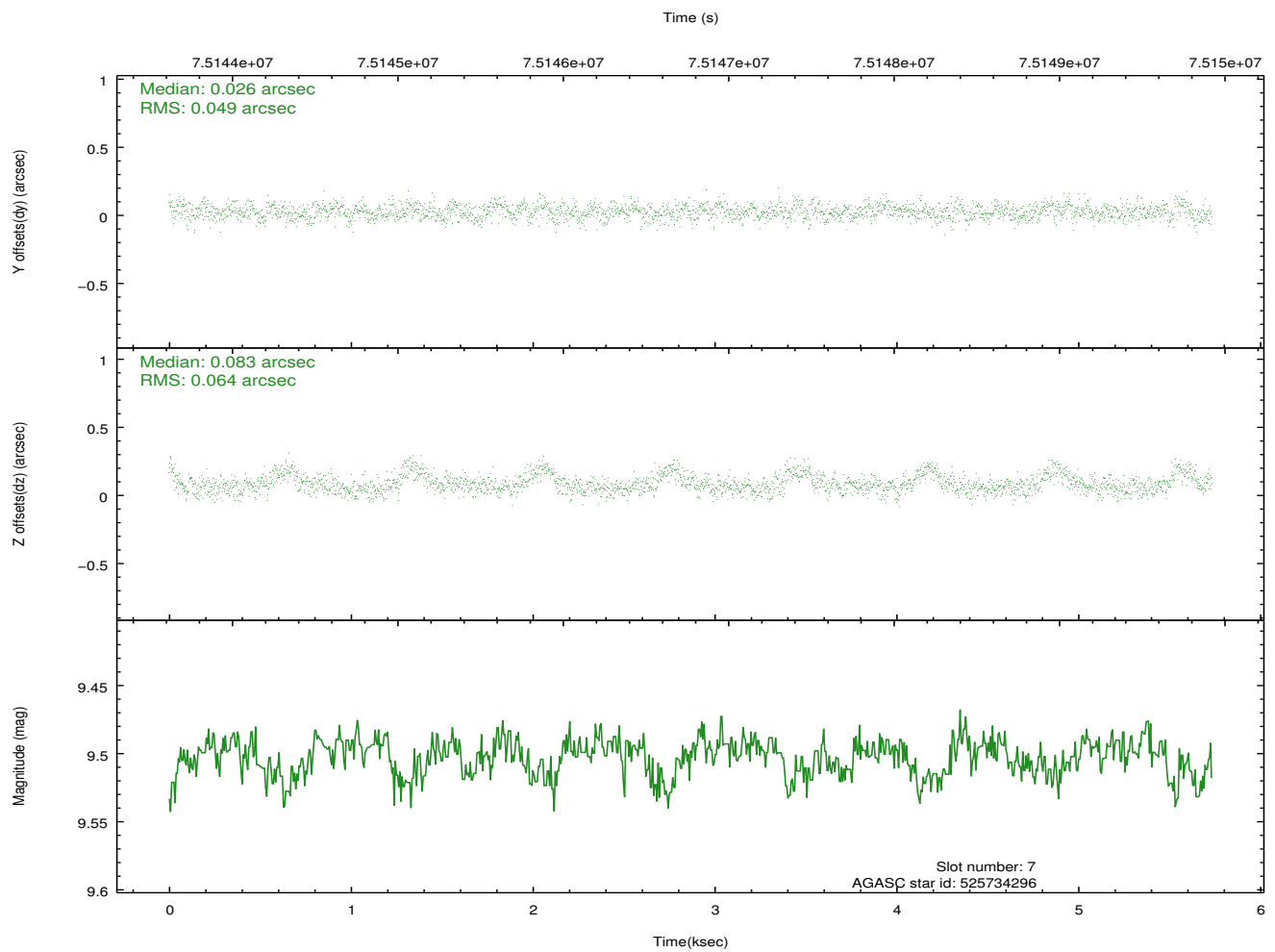
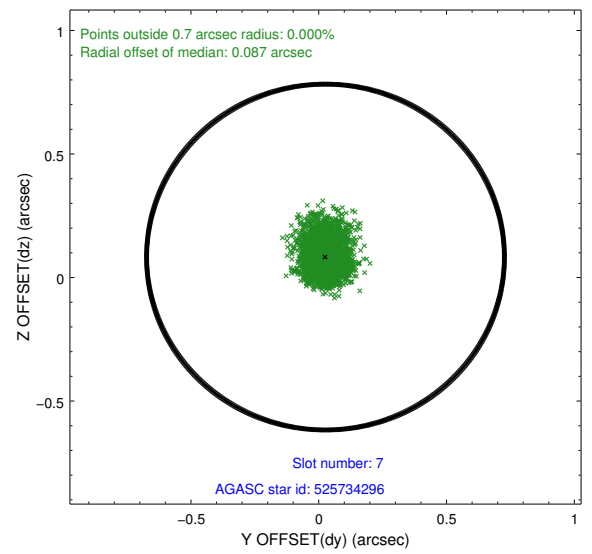
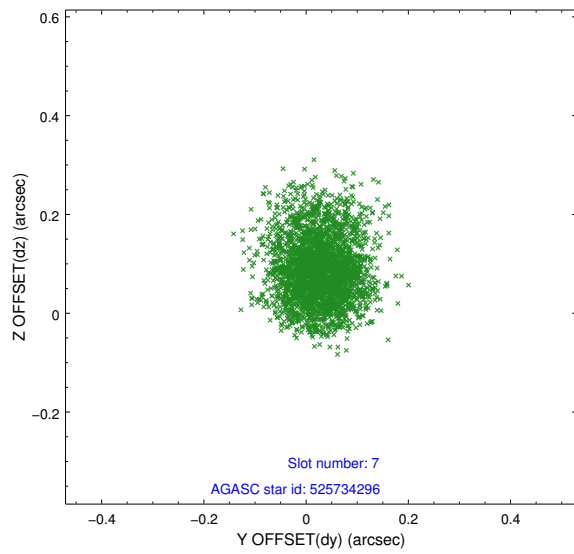
### 2.4.3 Slot 5



## 2.4.4 Slot 6

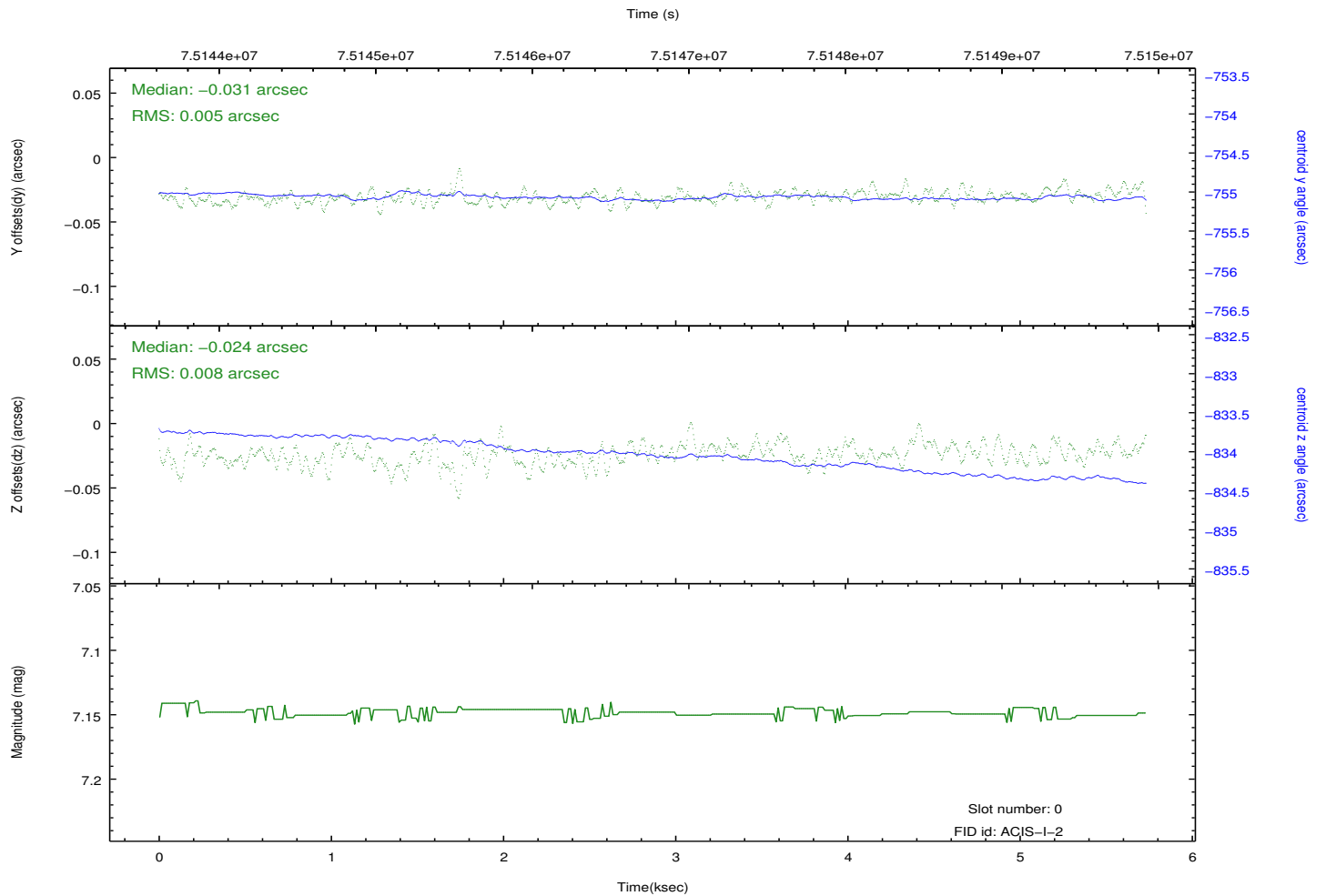
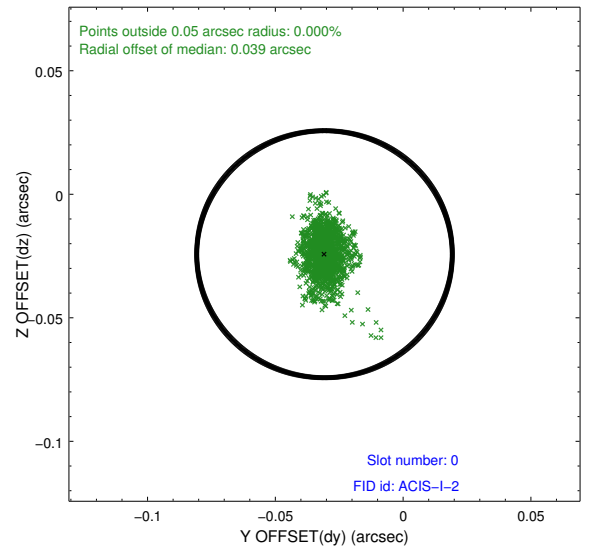
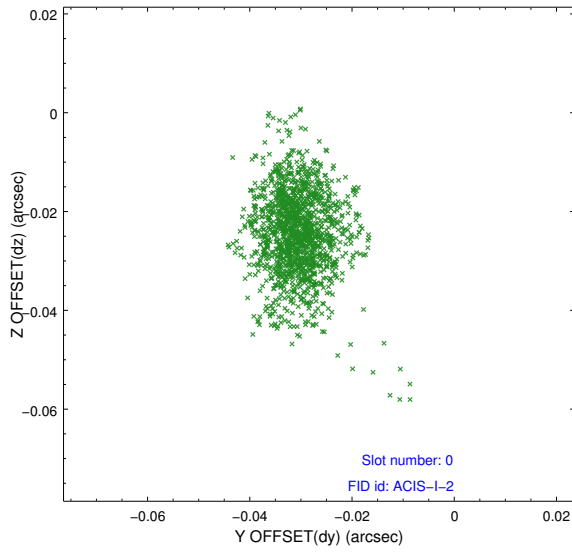


## 2.4.5 Slot 7

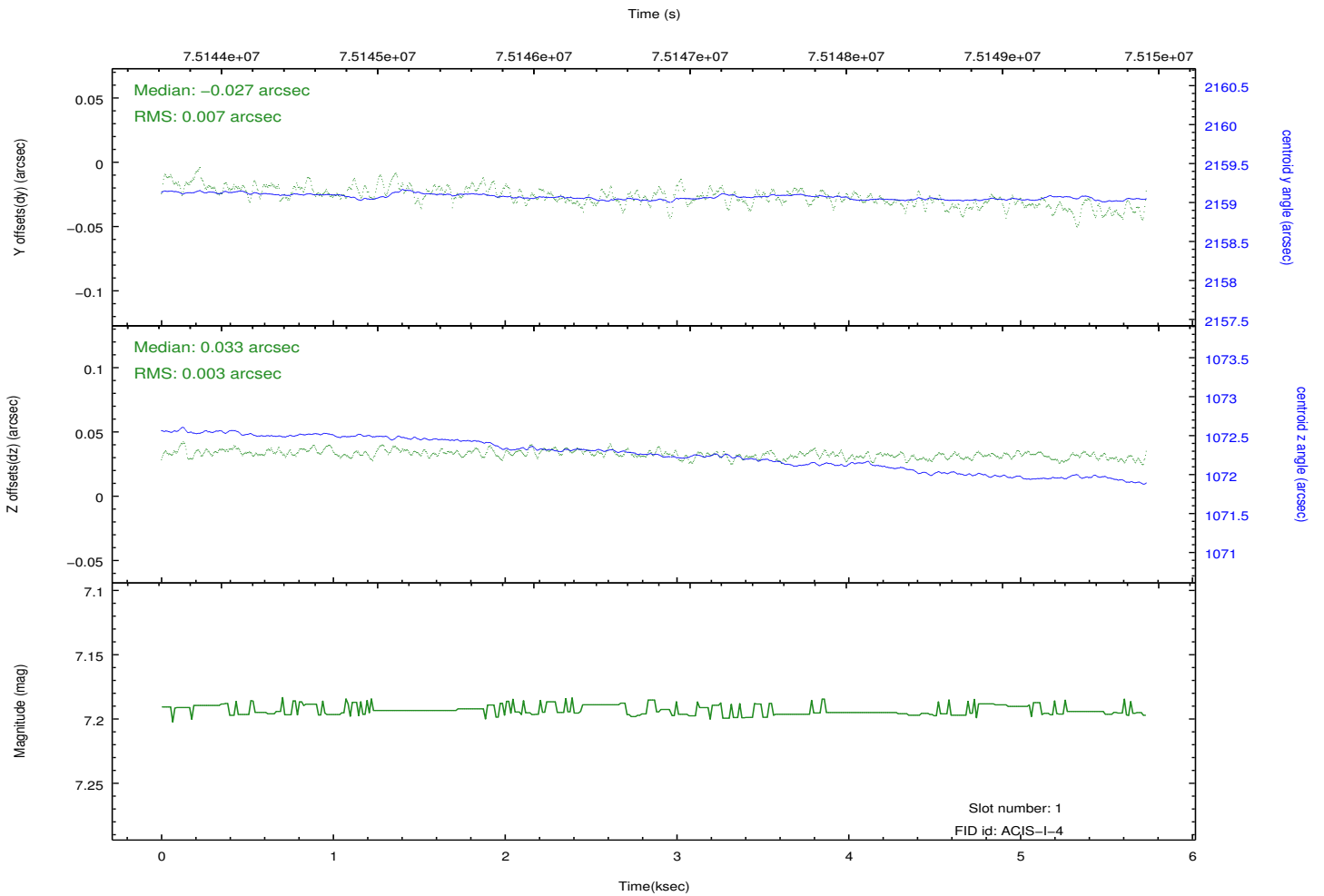
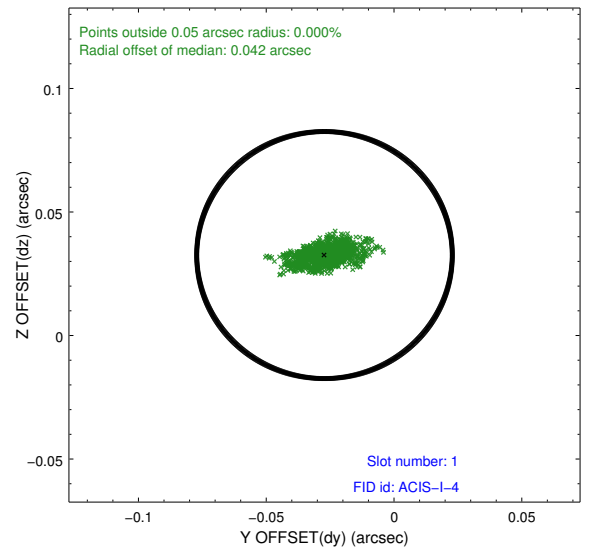
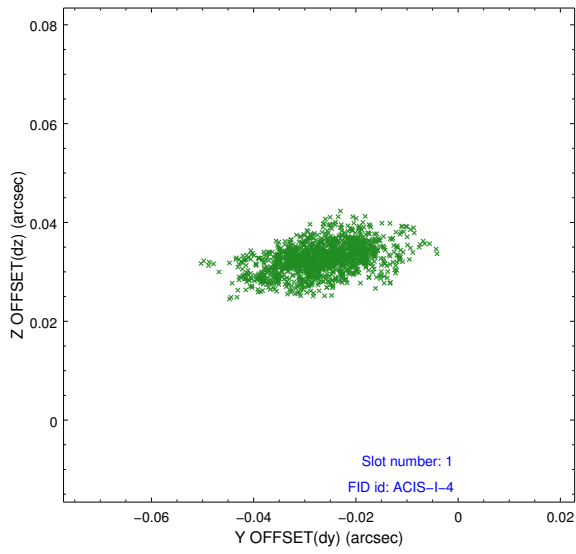


## 2.5 FID Slots

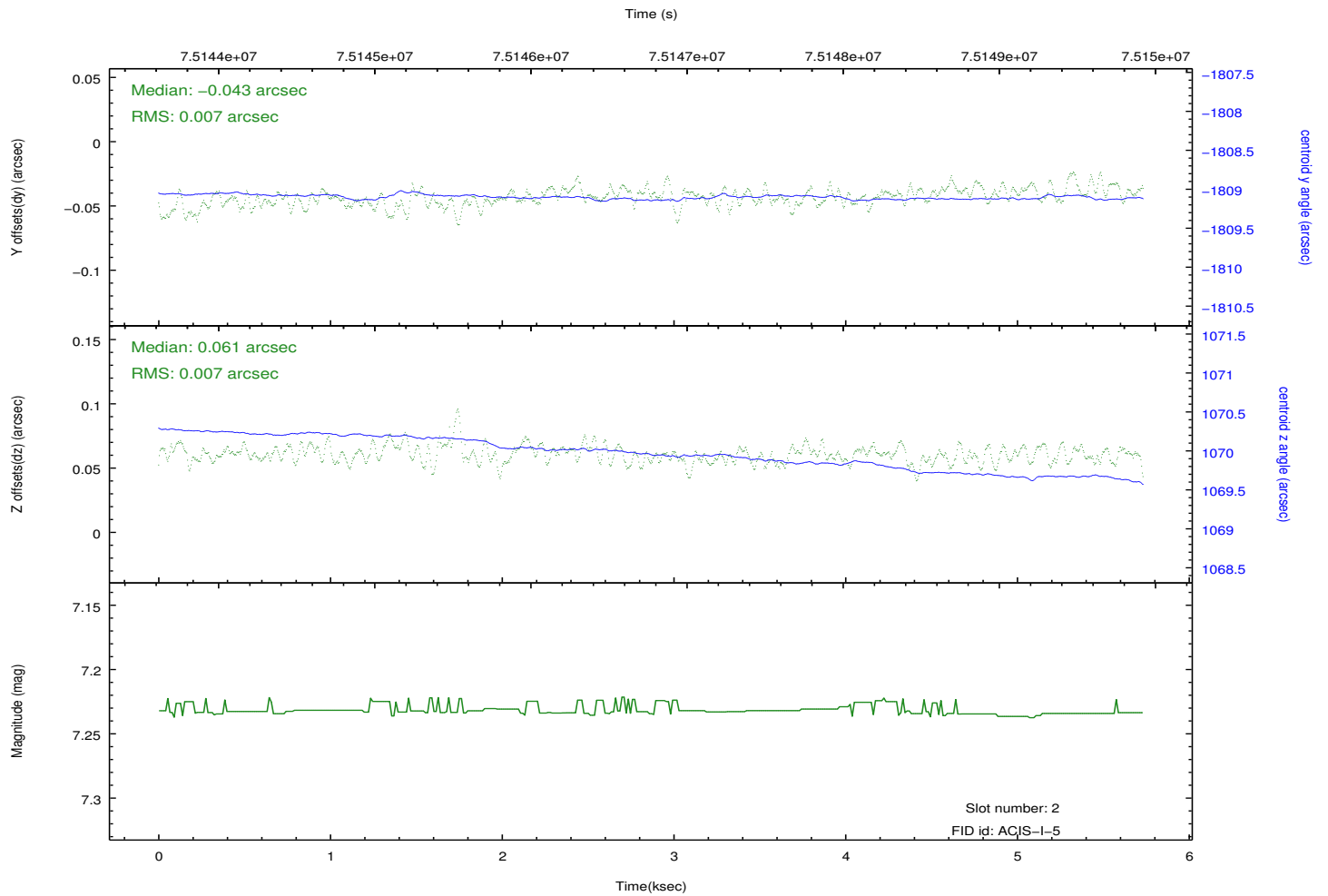
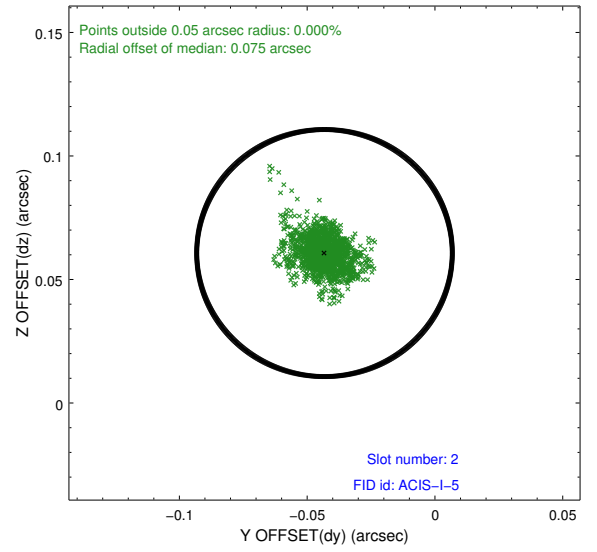
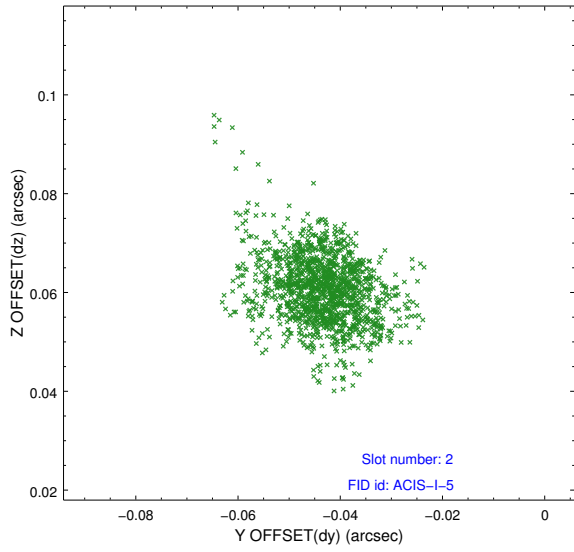
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.443

## A.2 Comments

Charge time for this observation remains at previous value of 3.443 ksec.