

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6748 - L2 Version 2  
Chandra X-Ray Center

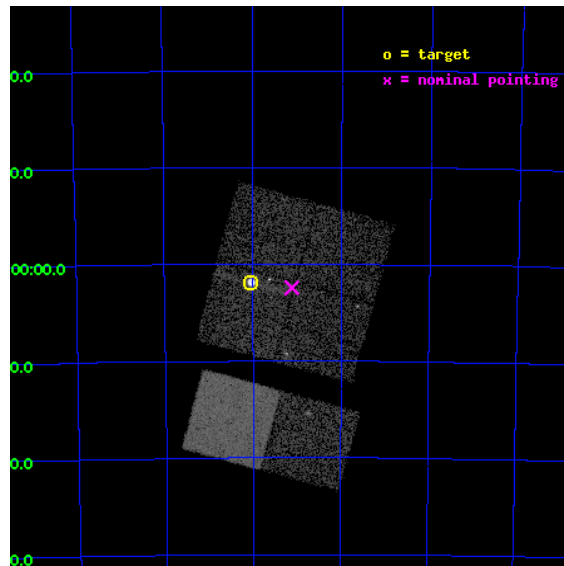
L2 Processing Date : Mar 28 2012

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# 1 Front

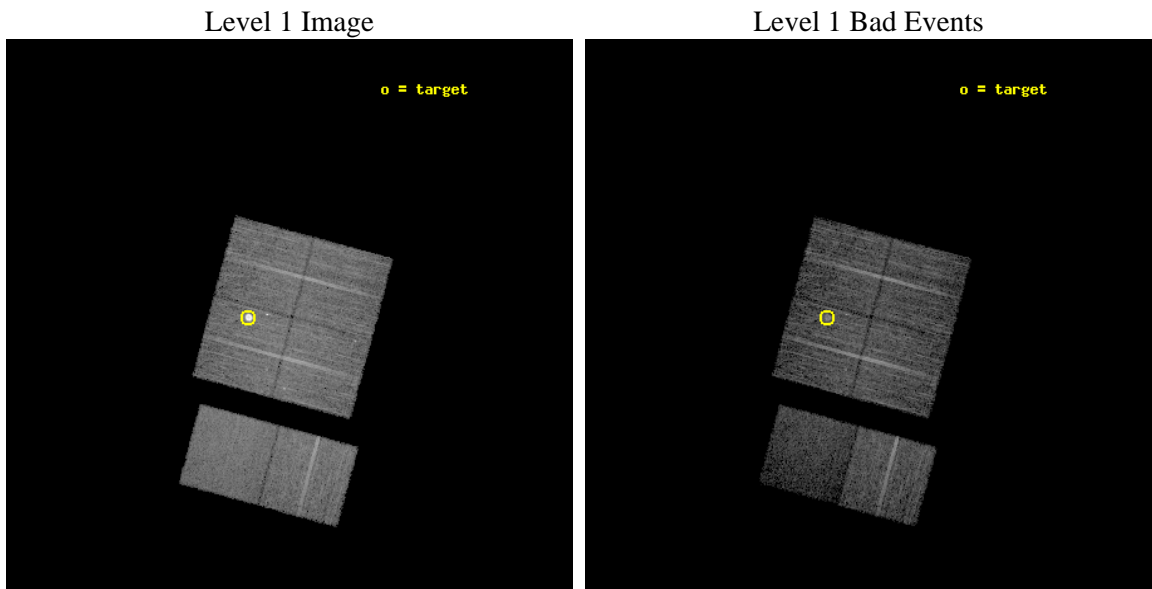
seq_num	590431	Sequence number
obs_id	6748	Observation id
title	AO7 ACIS-I Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I3,-120,-4,0.5,0]	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.779545753117	Nominal RA [deg]
dec_nom	-72.04066269463	Nominal Dec [deg]
roll_nom	195.14562207294	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7951.1133521199	Sum of GTIs [s]
livetime	7850.4315672697	Livetime [s]
ontime0	7950.9902321398	Sum of GTIs [s]
ontime1	7951.0312721133	Sum of GTIs [s]
ontime2	7951.0723121166	Sum of GTIs [s]
ontime3	7951.1133521199	Sum of GTIs [s]
ontime6	7951.1954321265	Sum of GTIs [s]
ontime7	7951.1543921232	Sum of GTIs [s]
l2events	72266	Number of level 2 events



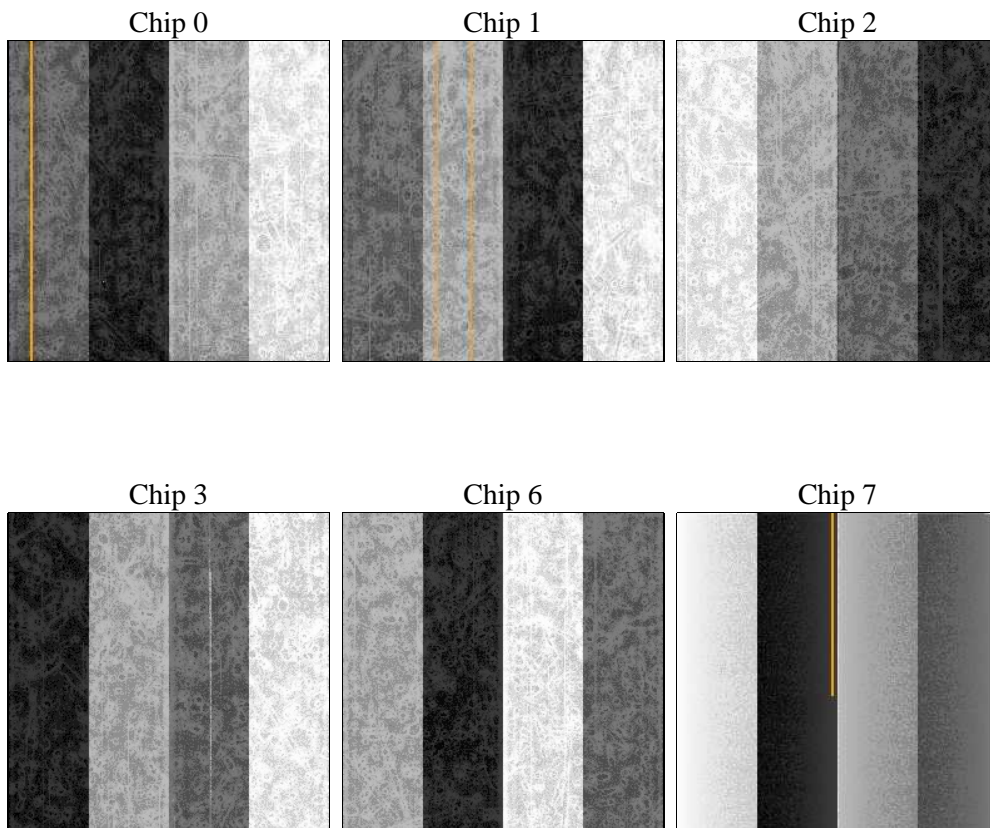
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	7951.1133521199	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime0	7950.9902321398	Sum of GTIs [s]
date	2012-03-28T20:47:26	Date and time of file creation	ontime1	7951.0312721133	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7951.0723121166	Sum of GTIs [s]
			ontime3	7951.1133521199	Sum of GTIs [s]
			ontime6	7951.1954321265	Sum of GTIs [s]
			ontime7	7951.1543921232	Sum of GTIs [s]
			l1events	347471	Number of level 1 events

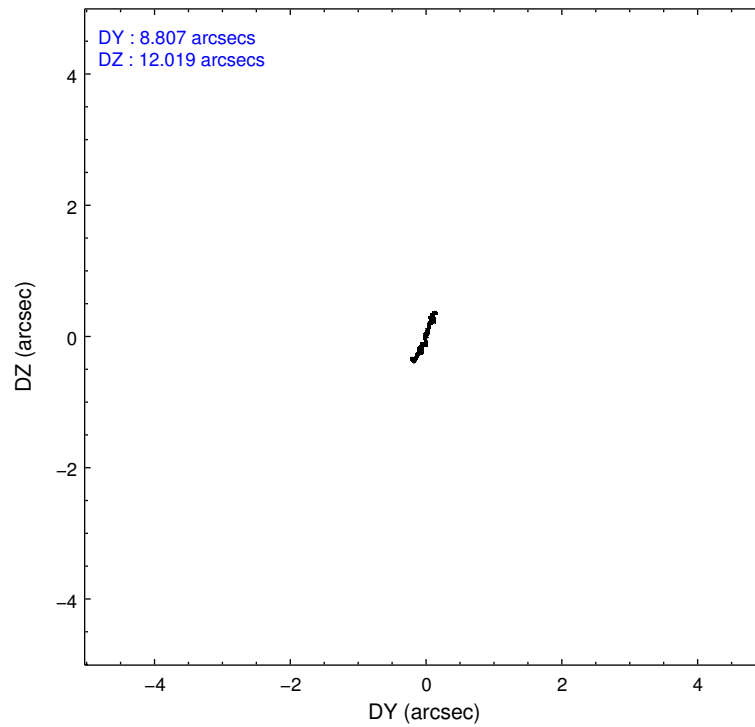
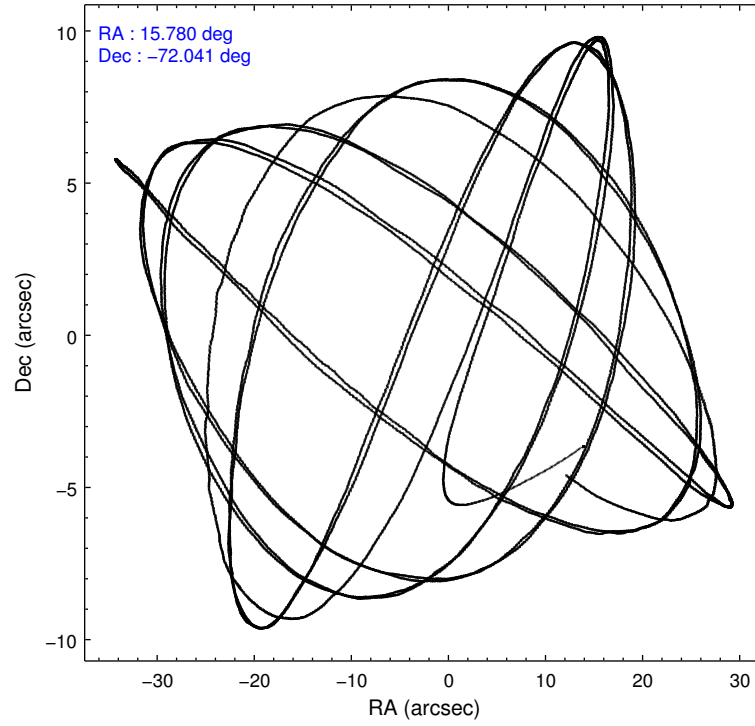
### 2.1.4 Events

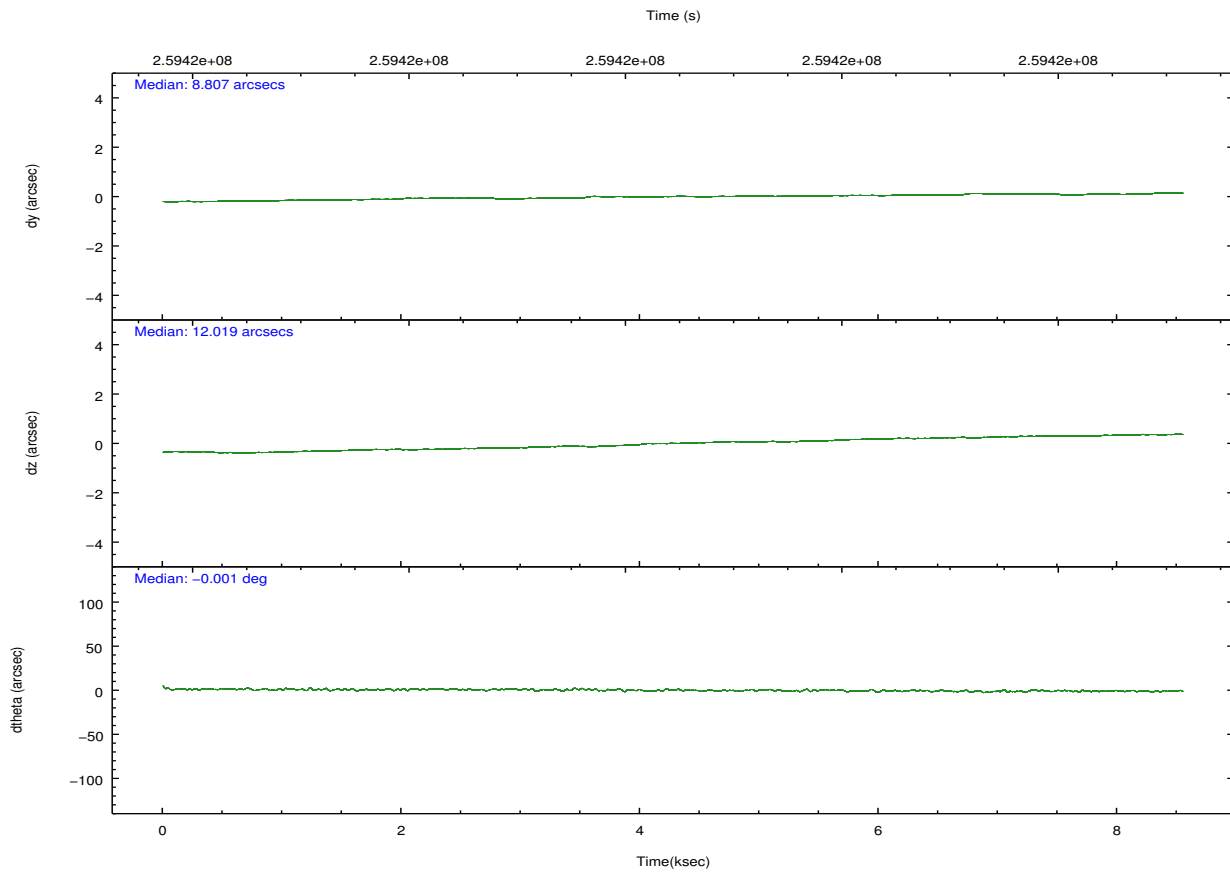
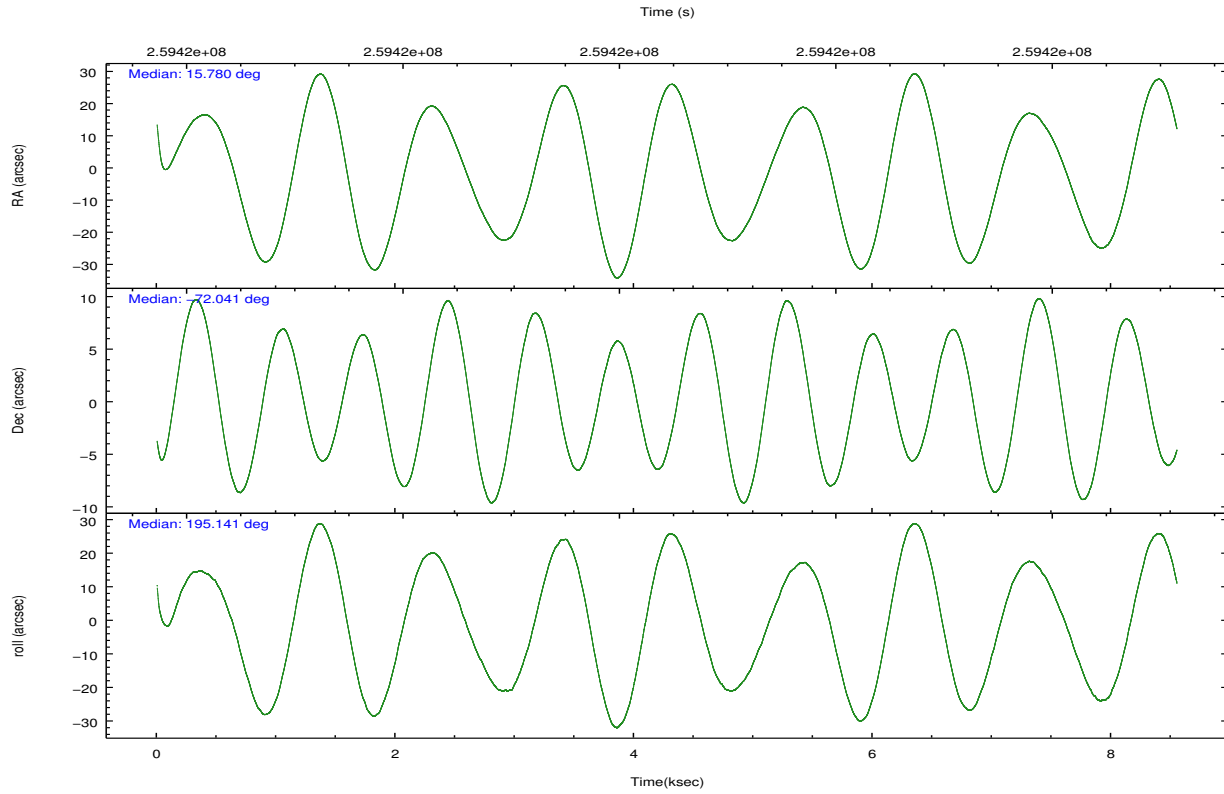
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	51226	52224	58896	80310	53788	51027	grade 0 events	1975	2112	2438	24196	2193	2527
rejected events	45951	46575	53176	49792	48119	25955		3%	4%	4%	30%	4%	4%
rejected %	89%	89%	90%	61%	89%	50%	grade 1 events	21	22	31	300	28	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	1251	1191	1187	3050	1169	5522
								2%	2%	2%	3%	2%	10%
							grade 3 events	640	667	587	1104	596	2417
								1%	1%	0%	1%	1%	4%
							grade 4 events	530	616	633	1045	628	2319
								1%	1%	1%	1%	1%	4%
							grade 5 events	1518	1765	1466	1966	1897	5611
								2%	3%	2%	2%	3%	10%
							grade 6 events	884	1069	882	1149	1086	12309
								1%	2%	1%	1%	2%	24%
							grade 7 events	44407	44782	51672	47500	46191	20262
								86%	85%	87%	59%	85%	39%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.841661	15.77954575311679	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.021177	-72.04066269462973	Alternating exposures requested	N	N
[deg] Pointing Roll	194.996025	195.1456220729377	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	247190464.184000	247190464.184000			
[s] Window stop time (MET)	260150465.184000	260150465.184000			
[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)	259416716.184000	259415414.80131			
Observation start date	2006-03-22T12:10:51	2006-03-22T11:50:14			
[s] Observation end time (MET)	259424716.184000	259424850.43925			
Observation end date	2006-03-22T14:24:11	2006-03-22T14:27:30			
Read mode	TIMED	TIMED			

## 2.3 Aspect



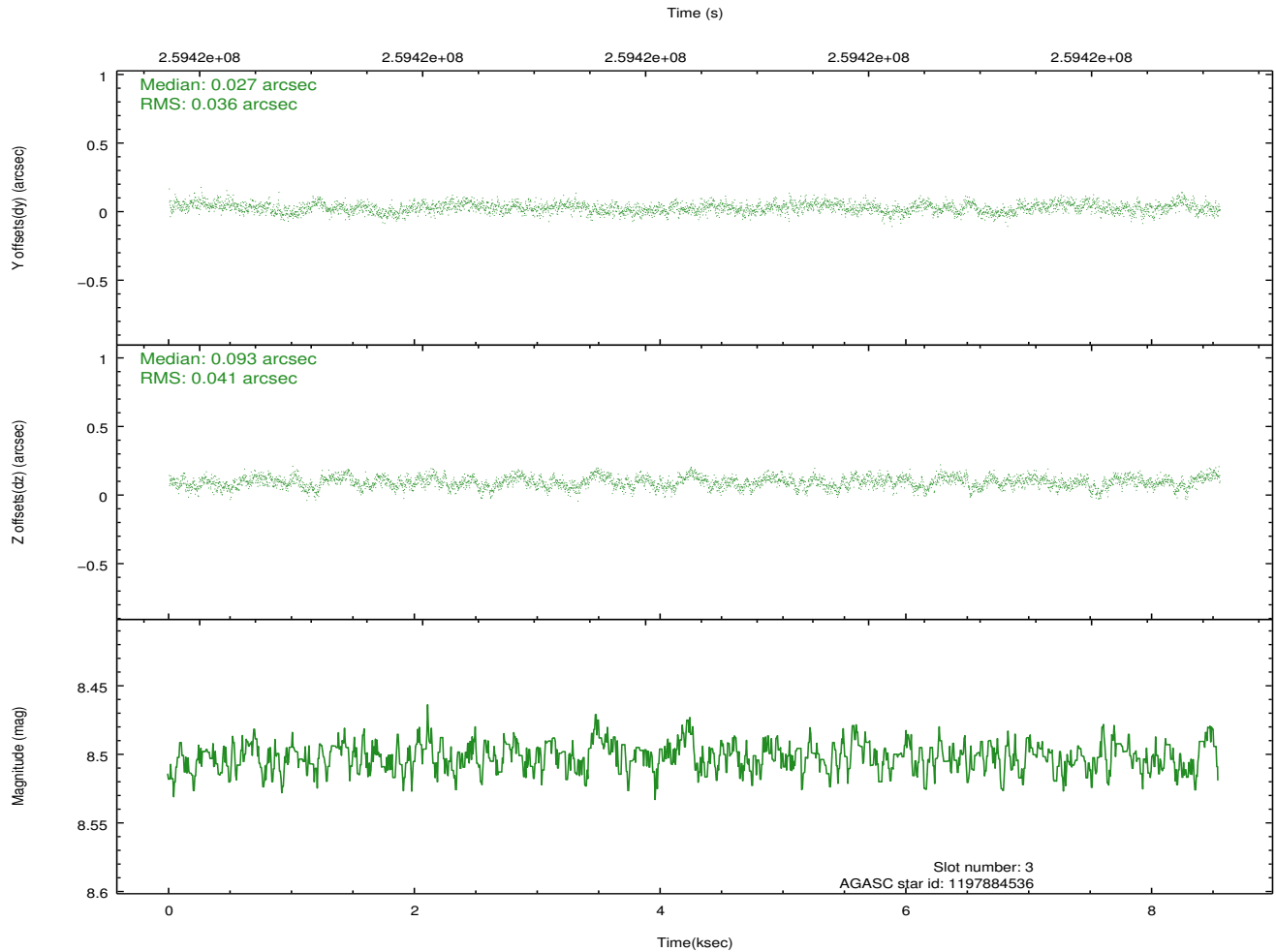
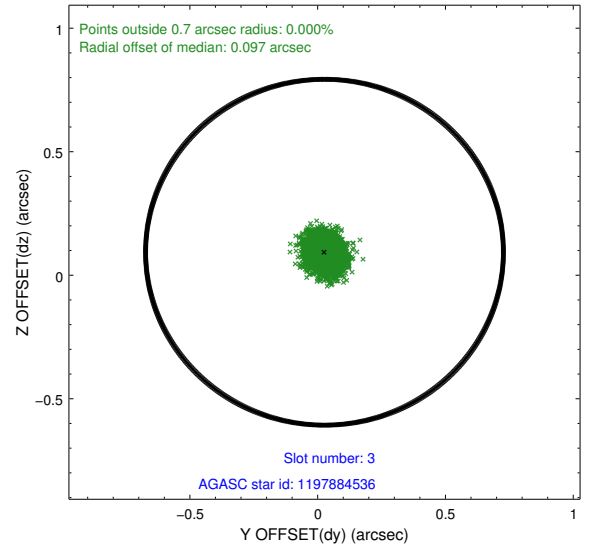
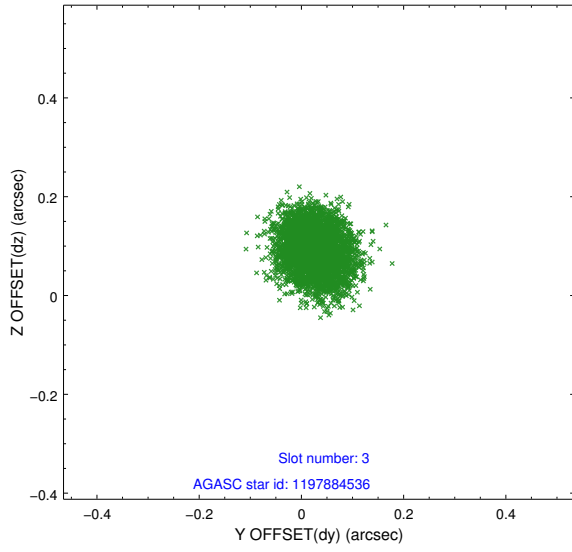


### Slot Statistics

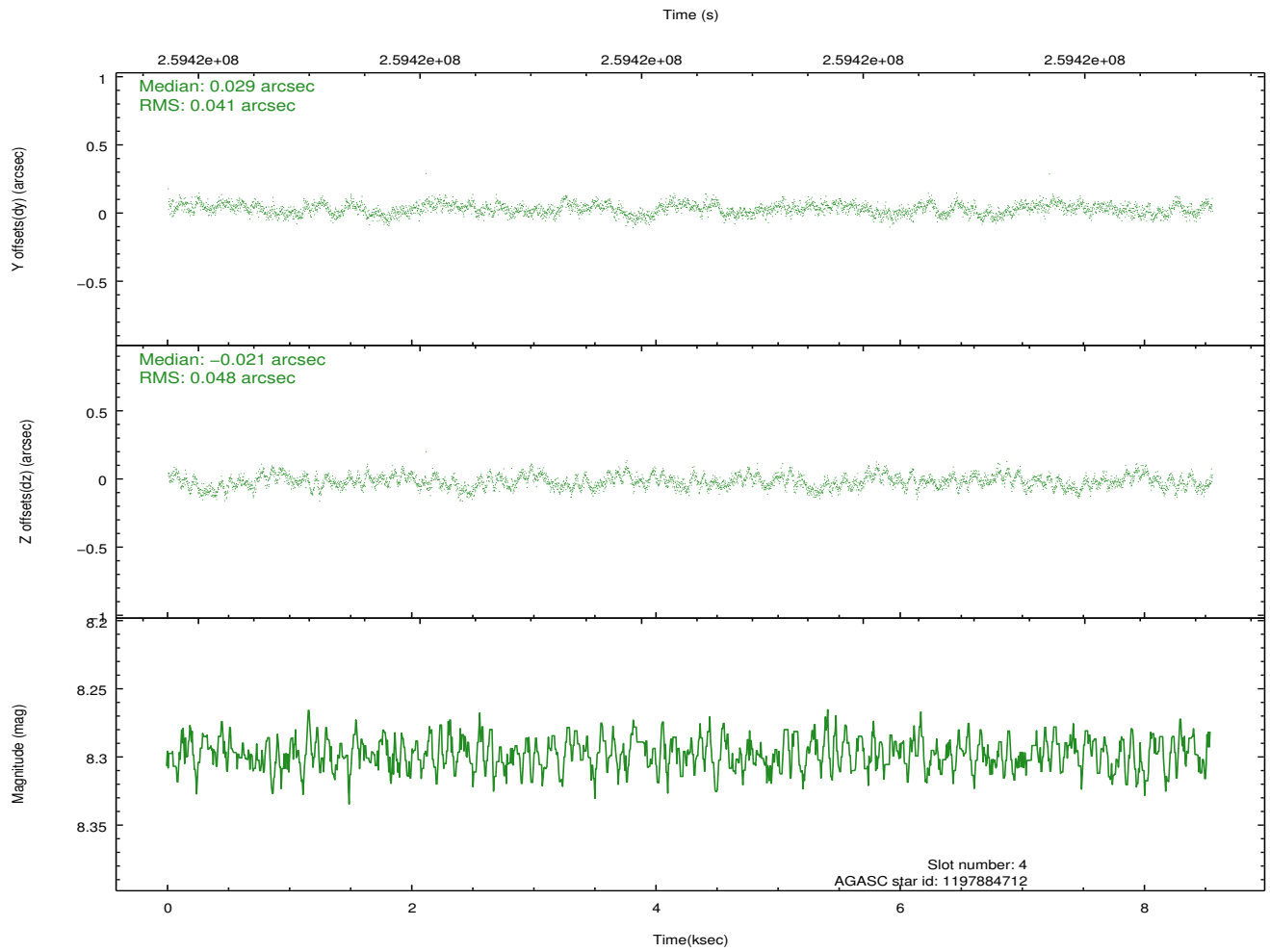
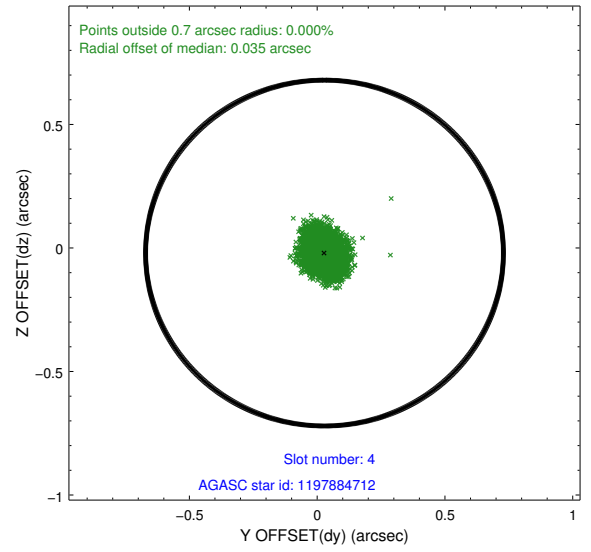
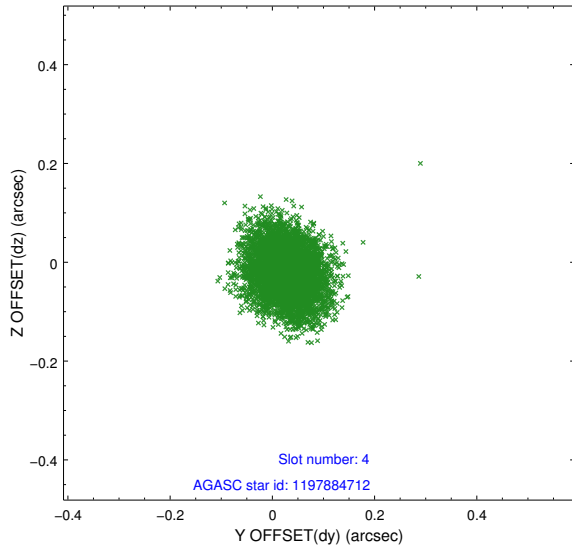
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	2086	-0.093	-0.039	0.010	0.016	0.000000	0.000000	930.74	-835.57
1	FID	ACIS-I-4	7.18	2086	0.070	0.093	0.009	0.016	0.000000	0.000000	2151.33	1064.03
2	FID	ACIS-I-6	7.25	2086	-0.074	0.010	0.014	0.022	0.000000	0.000000	397.53	1706.88
3	GUIDE	1197884536	8.50	4171	0.027	0.093	0.058	0.093	17.160729	-71.835289	-1598.31	-247.52
4	GUIDE	1197884712	8.30	4168	0.029	-0.021	0.068	0.107	16.087398	-72.252690	-44.65	875.58
5	GUIDE	1197885104	9.35	4170	0.111	-0.035	0.091	0.152	17.845067	-72.189368	-1963.55	1191.65
6	GUIDE	1197885328	7.24	4169	0.053	0.121	0.051	0.085	16.283090	-71.733943	-748.79	-867.70
7	GUIDE	1198189696	7.36	4171	-0.223	-0.160	0.051	0.081	15.223750	-72.697522	1269.82	2184.13

## 2.4 Star Slots

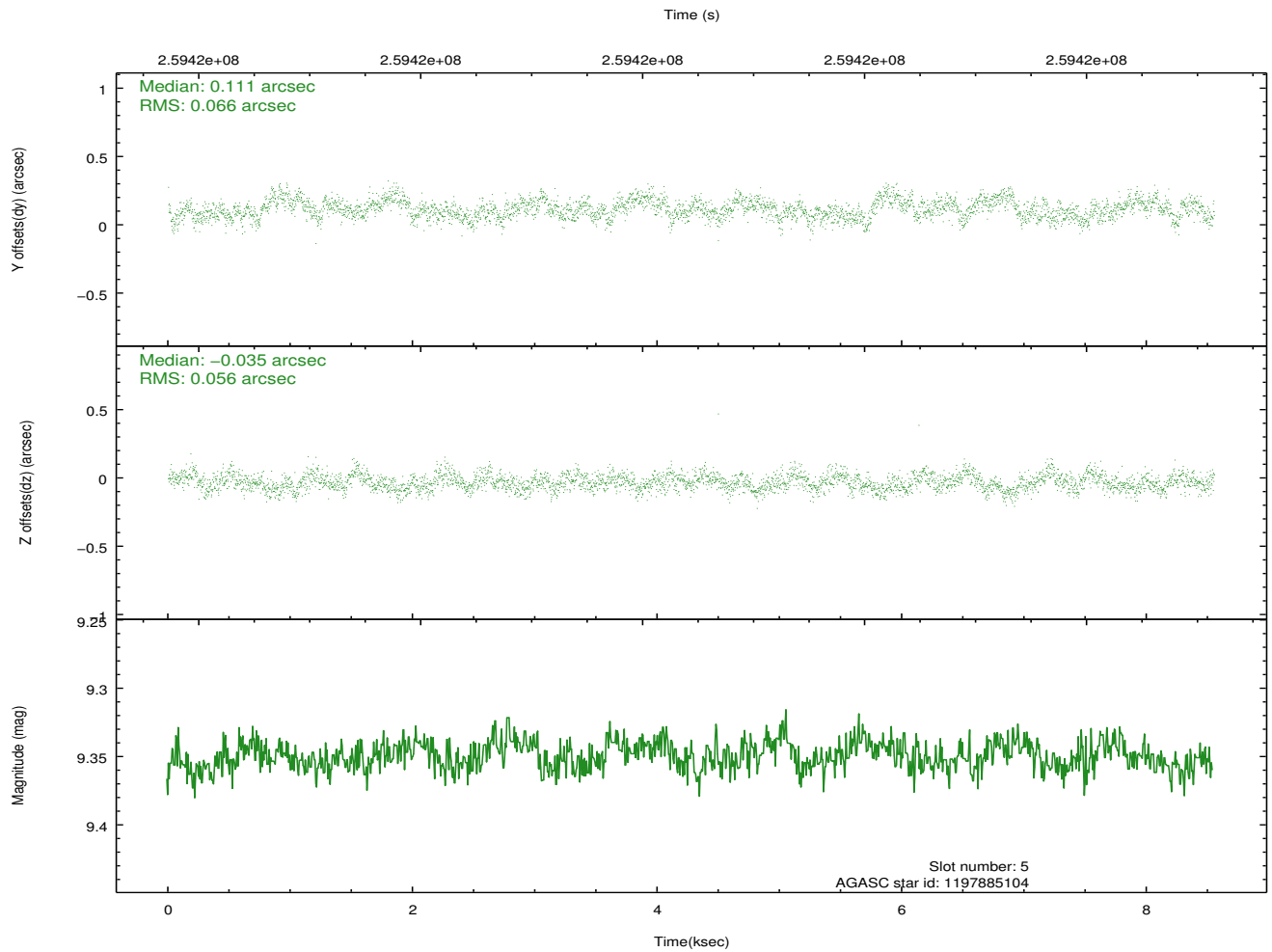
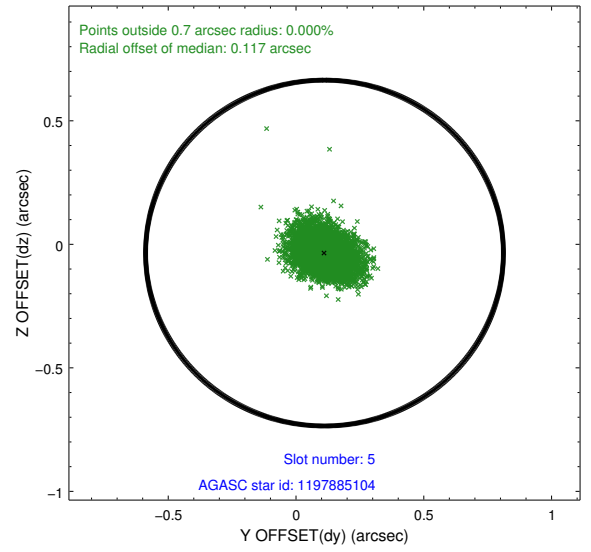
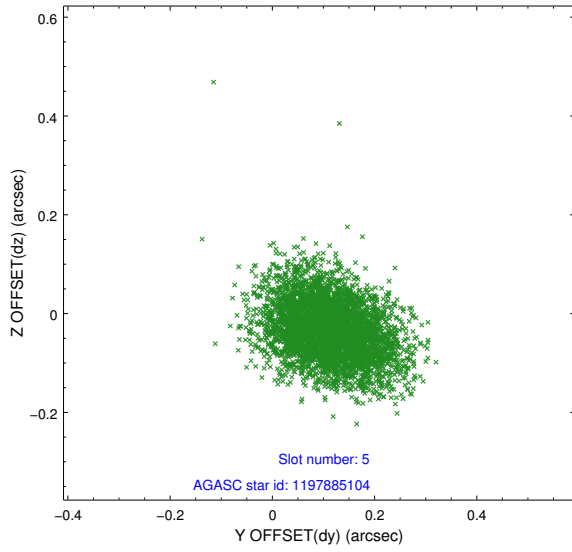
### 2.4.1 Slot 3



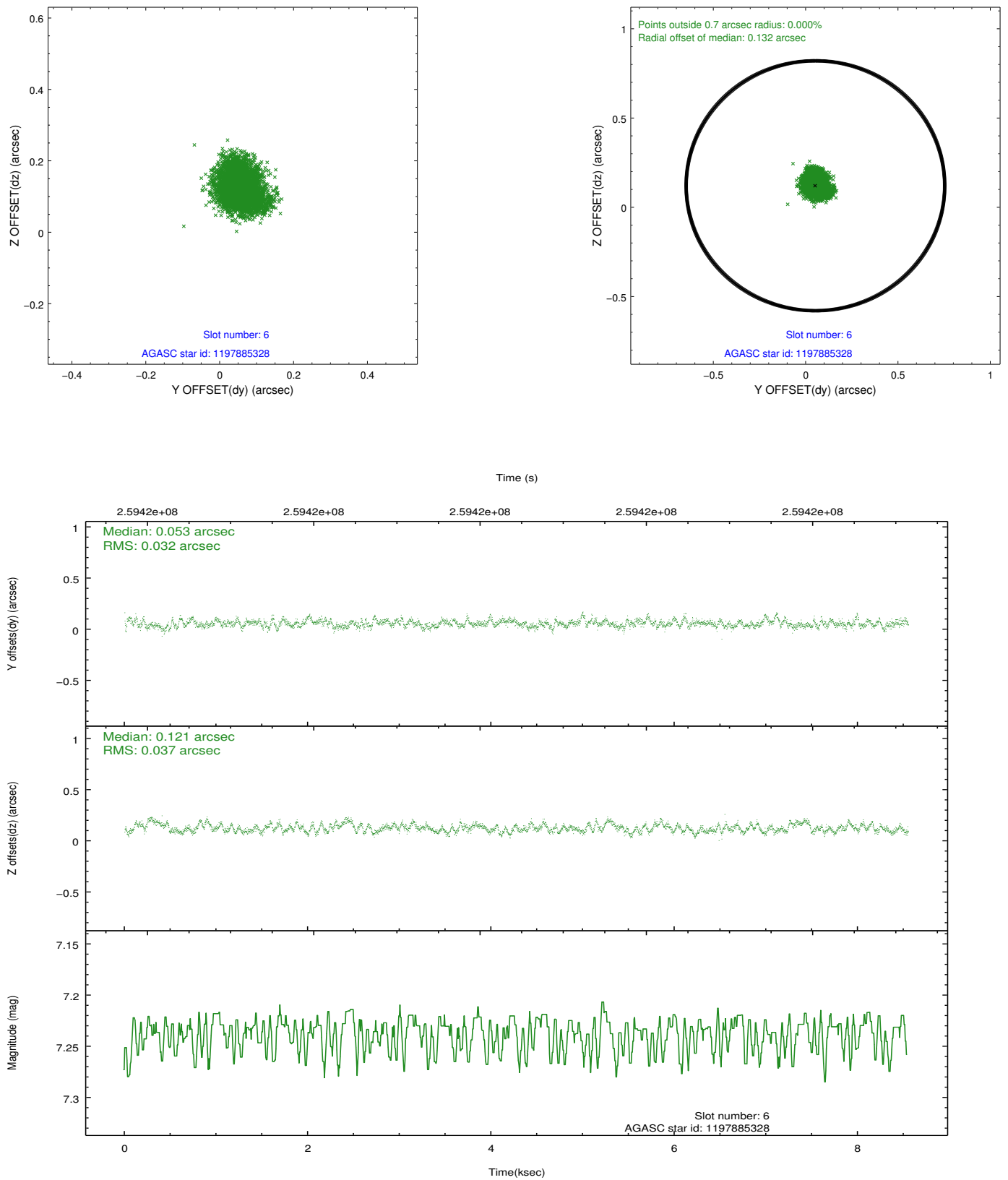
### 2.4.2 Slot 4



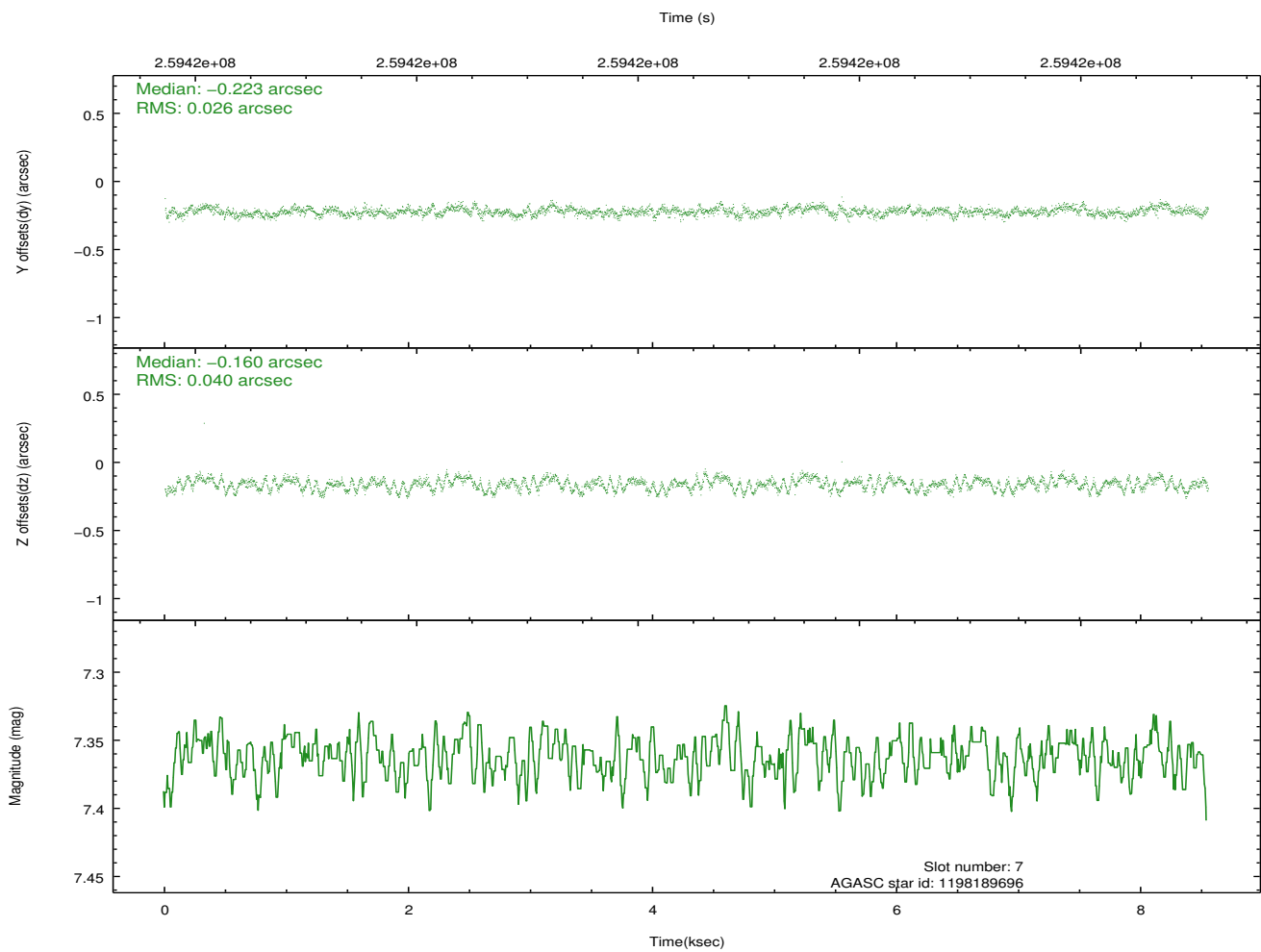
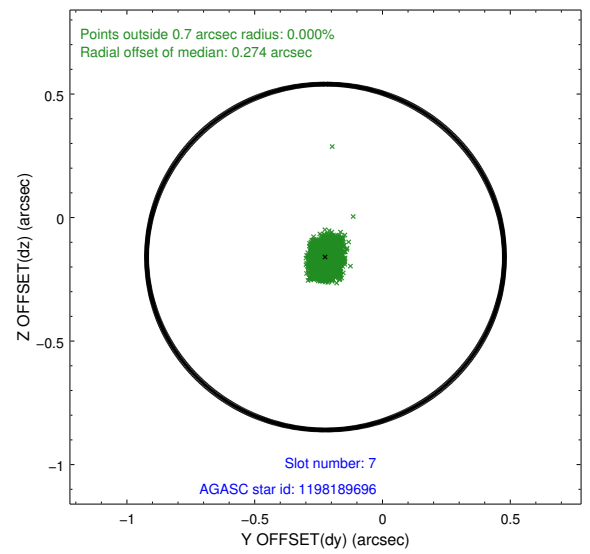
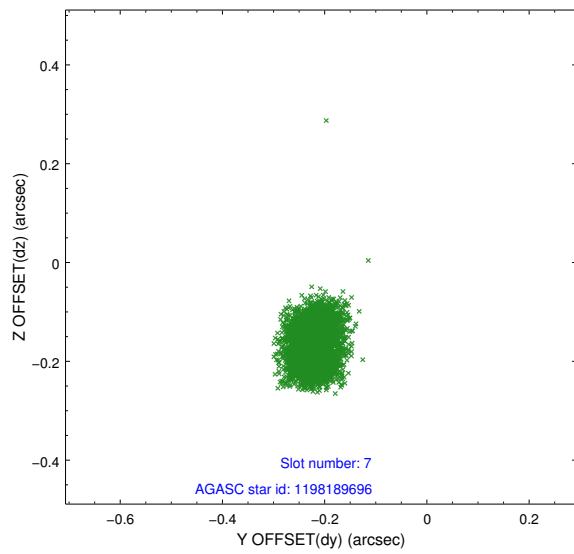
### 2.4.3 Slot 5



## 2.4.4 Slot 6

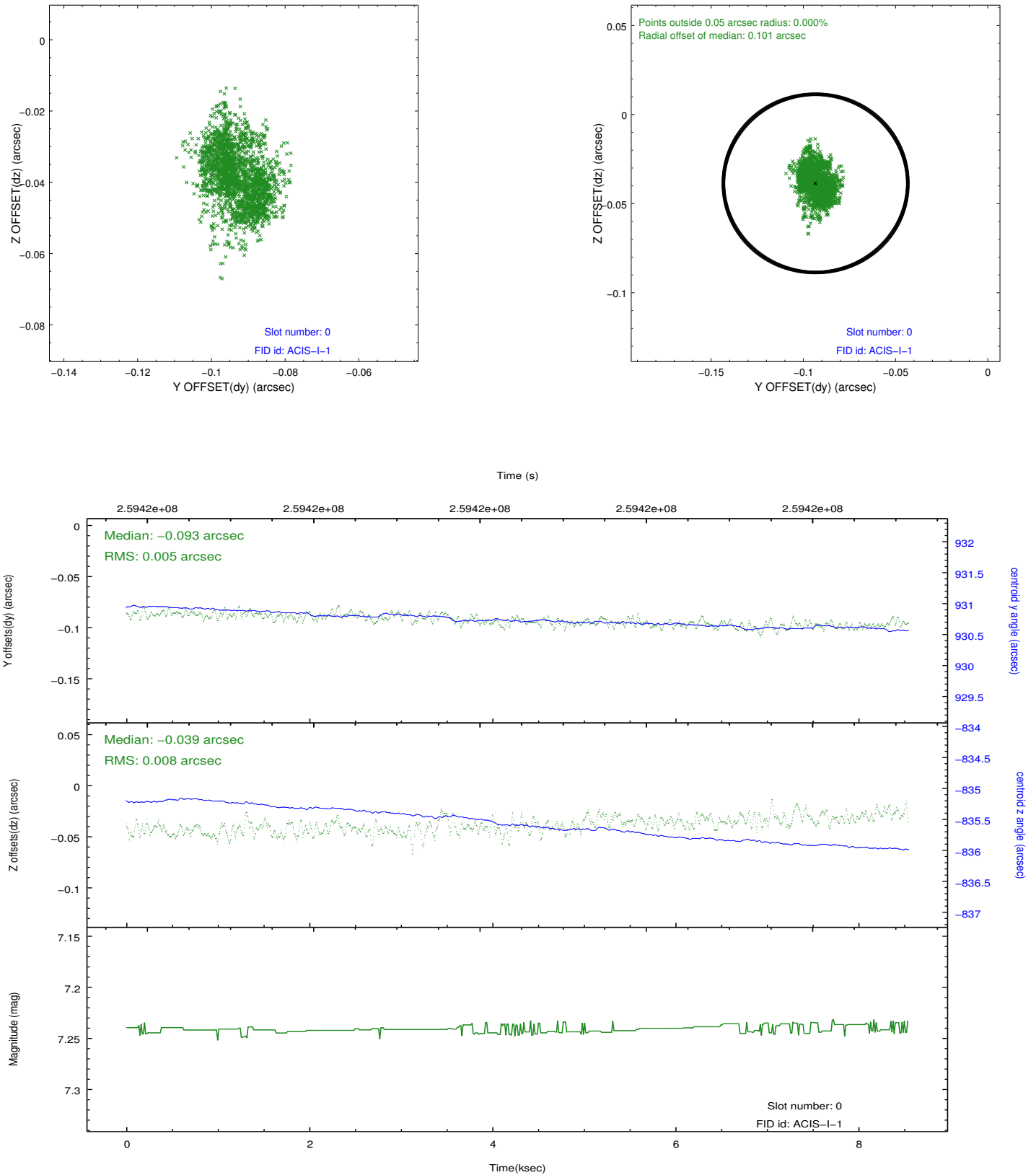


## 2.4.5 Slot 7

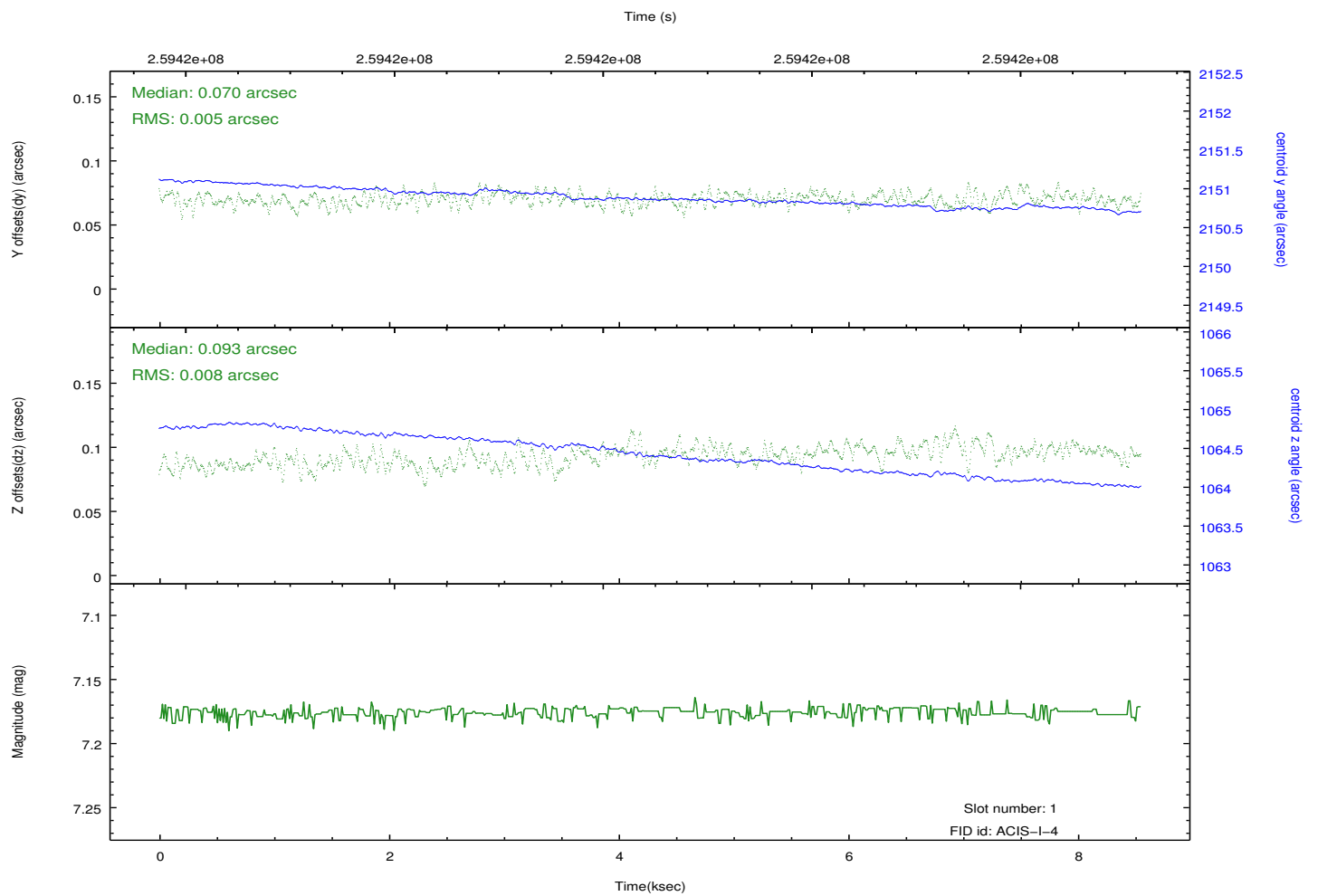
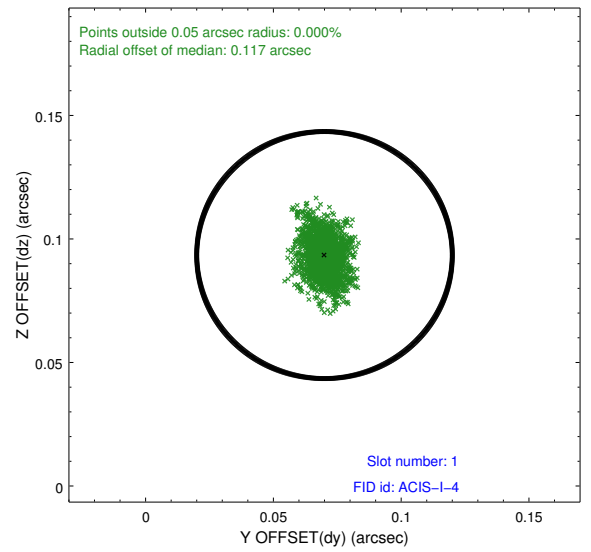
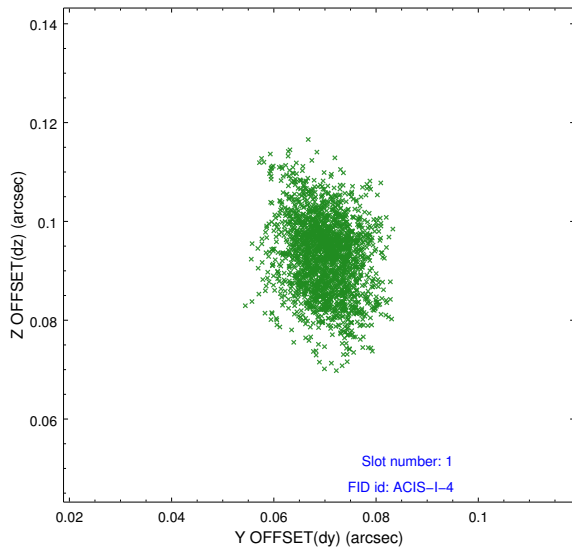


## 2.5 FID Slots

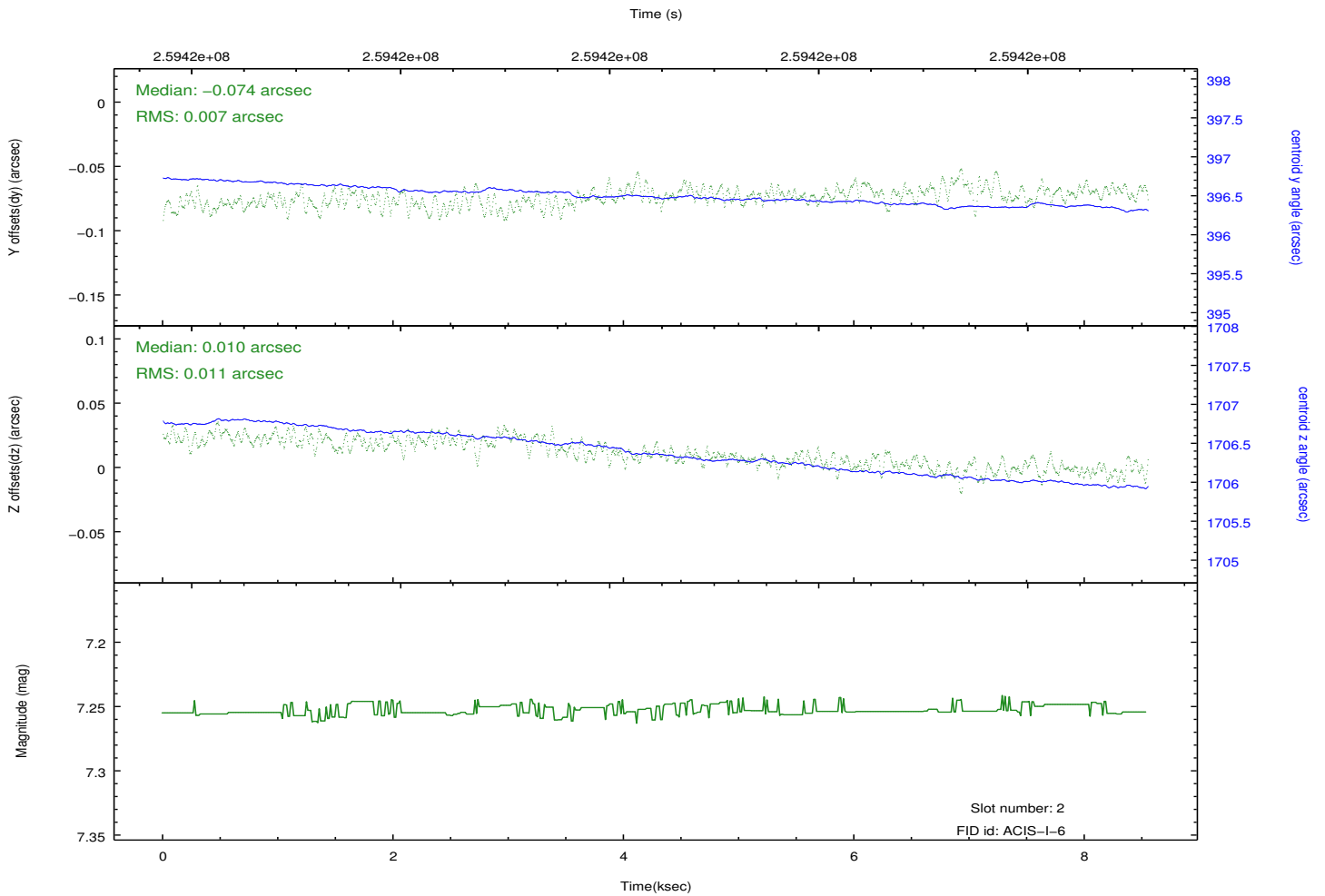
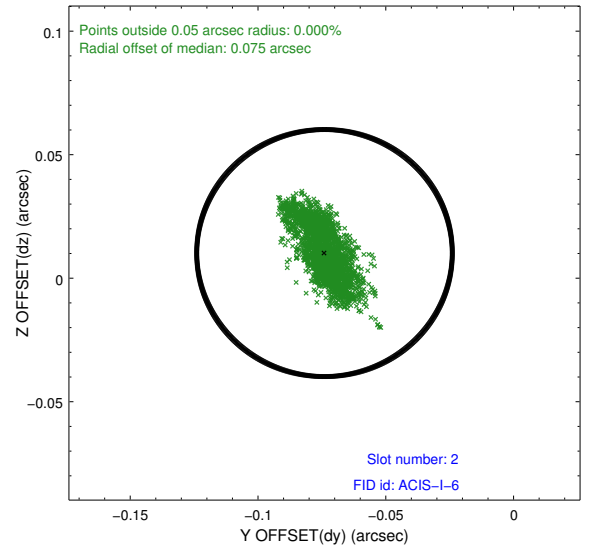
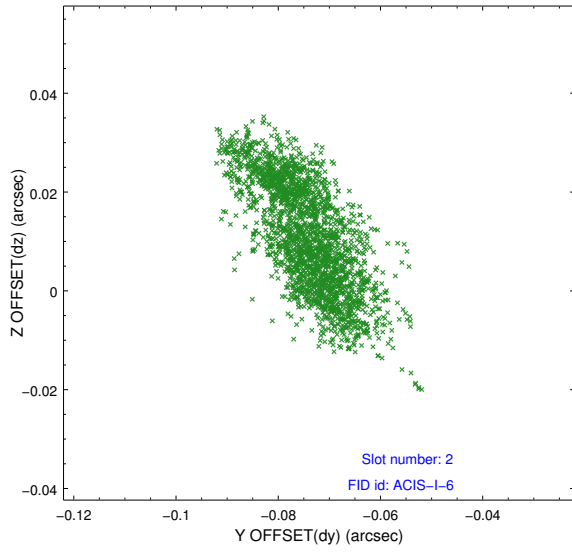
### 2.5.1 Slot 0



## 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)	2012.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.95199997

## A.2 Comments

Window preference met.