

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7479 - L2 Version 3  
Chandra X-Ray Center

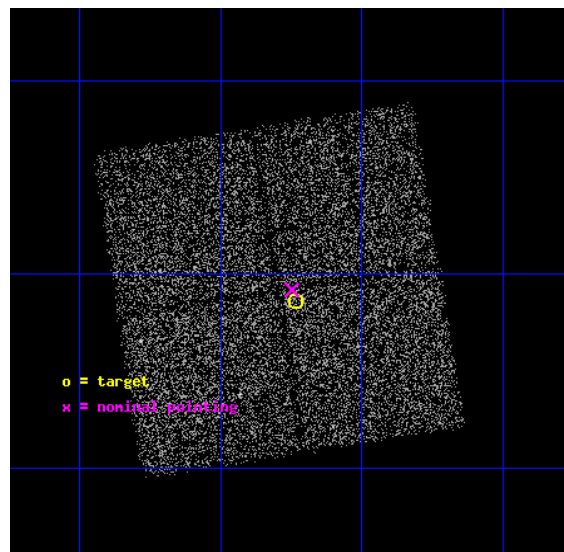
L2 Processing Date : Apr 20 2012

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# 1 Front

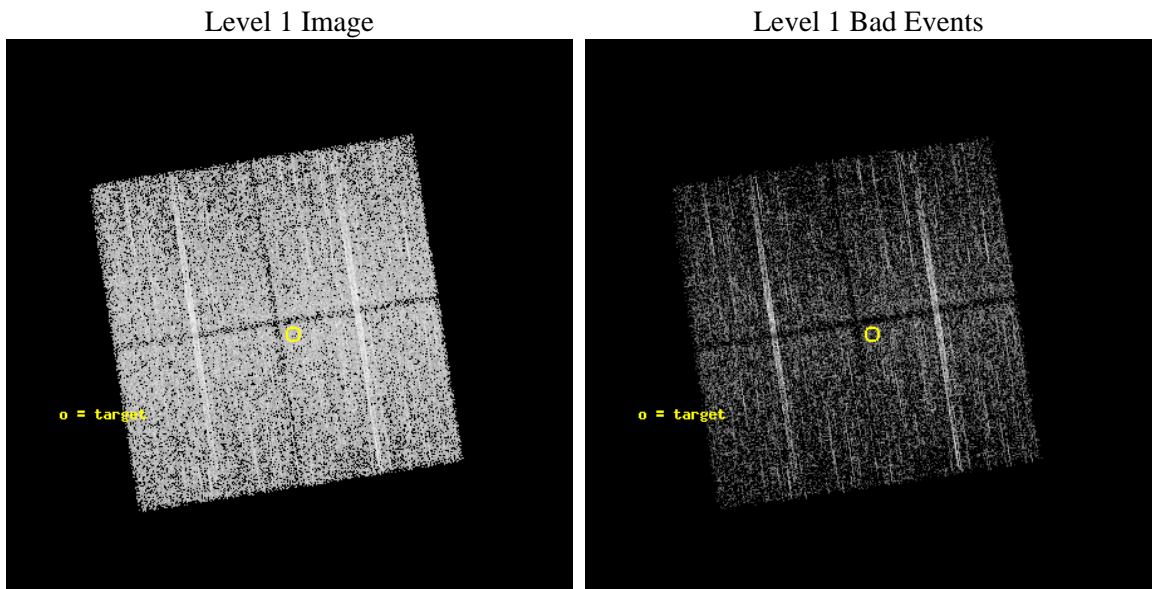
seq_num	400589	Sequence number
obs_id	7479	Observation id
title	A Red Giant Companion for the Transient 7.8 s Pulsar XTE J1829-098 ?	&#160;
observer	Prof. Jules Halpern	Principal investigator
object	XTE J1829-098	Source name
dtcycle	0	&#160;
cycle	P	events from which exps? Prim/Second/Both
ra_targ	277.43375	Observer's specified target RA [deg]
dec_targ	-9.856472	Observer's specified target Dec [deg]
ra_nom	277.43708090831	Nominal RA [deg]
dec_nom	-9.8468489976756	Nominal Dec [deg]
roll_nom	81.129143155718	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5055.8225983381	Sum of GTIs [s]
livetime	4989.7645540484	Livetime [s]
ontime0	5055.6994783282	Sum of GTIs [s]
ontime1	5055.7405183315	Sum of GTIs [s]
ontime2	5055.7815583348	Sum of GTIs [s]
ontime3	5055.8225983381	Sum of GTIs [s]
l2events	20600	Number of level 2 events



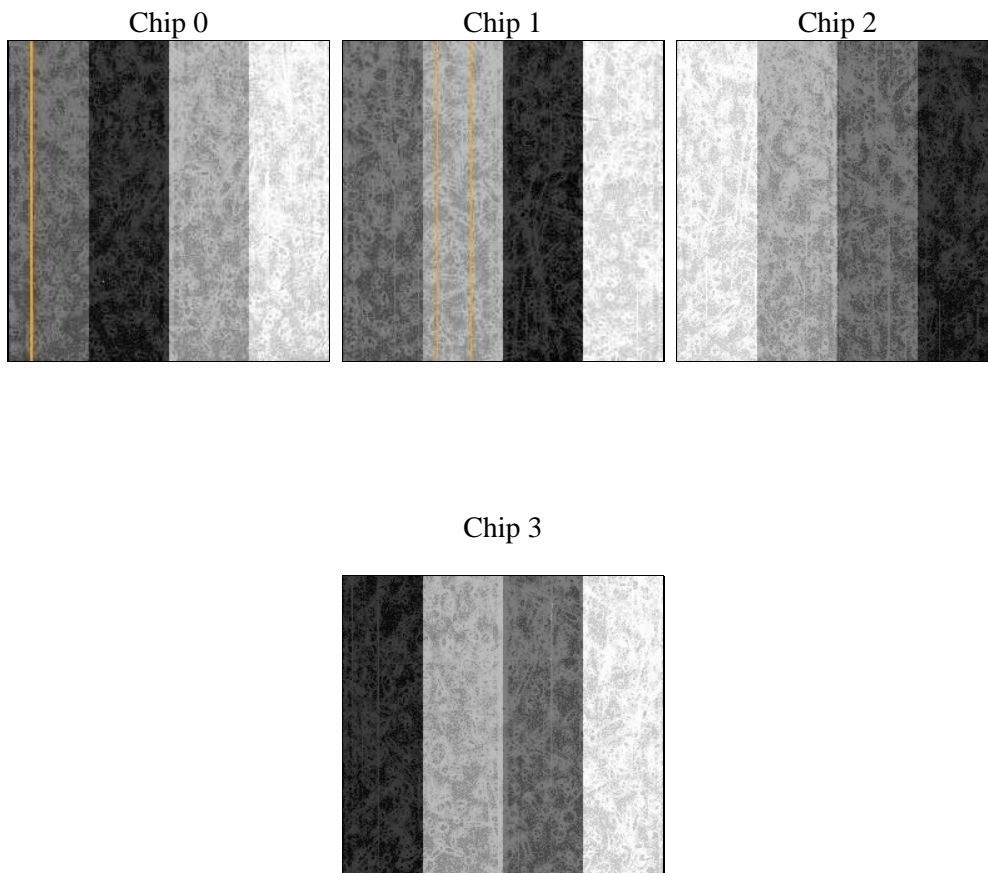
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5055.8225983381	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	5055.6994783282	Sum of GTIs [s]
date	2012-04-20T03:16:39	Date and time of file creation	ontime1	5055.7405183315	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5055.7815583348	Sum of GTIs [s]
			ontime3	5055.8225983381	Sum of GTIs [s]
			l1events	176841	Number of level 1 events

### 2.1.4 Events

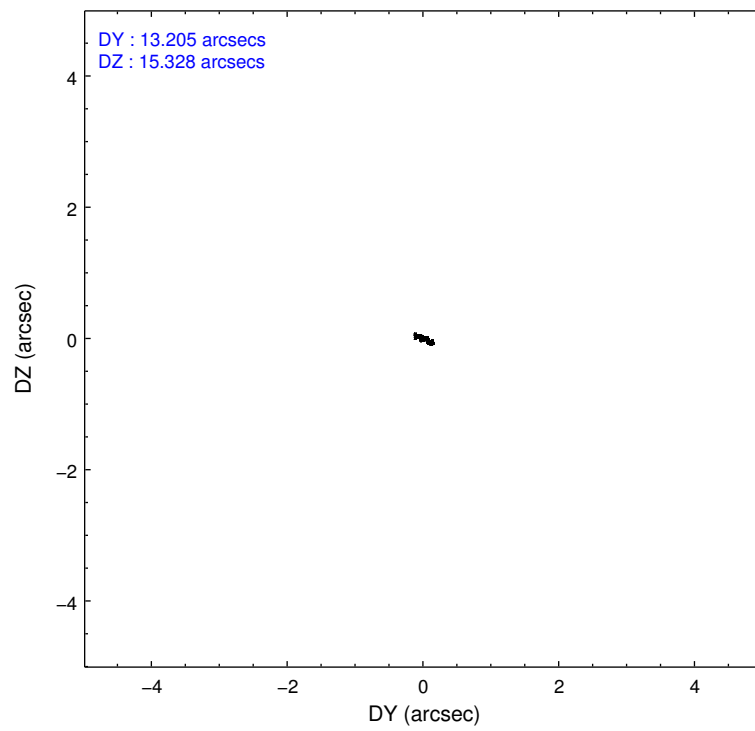
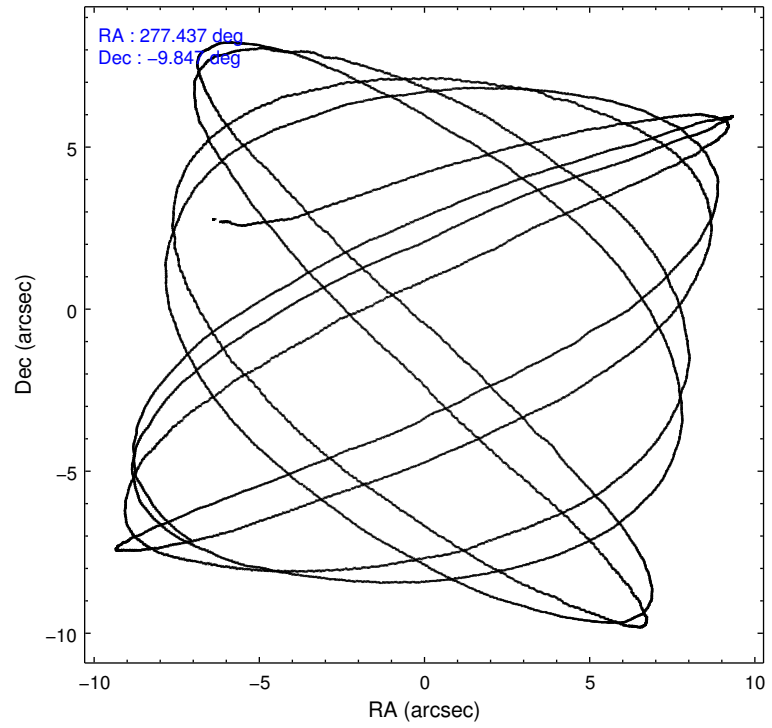
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	41955	42885	45408	46593
rejected events	36133	36541	39676	40782
rejected %	86%	85%	87%	87%

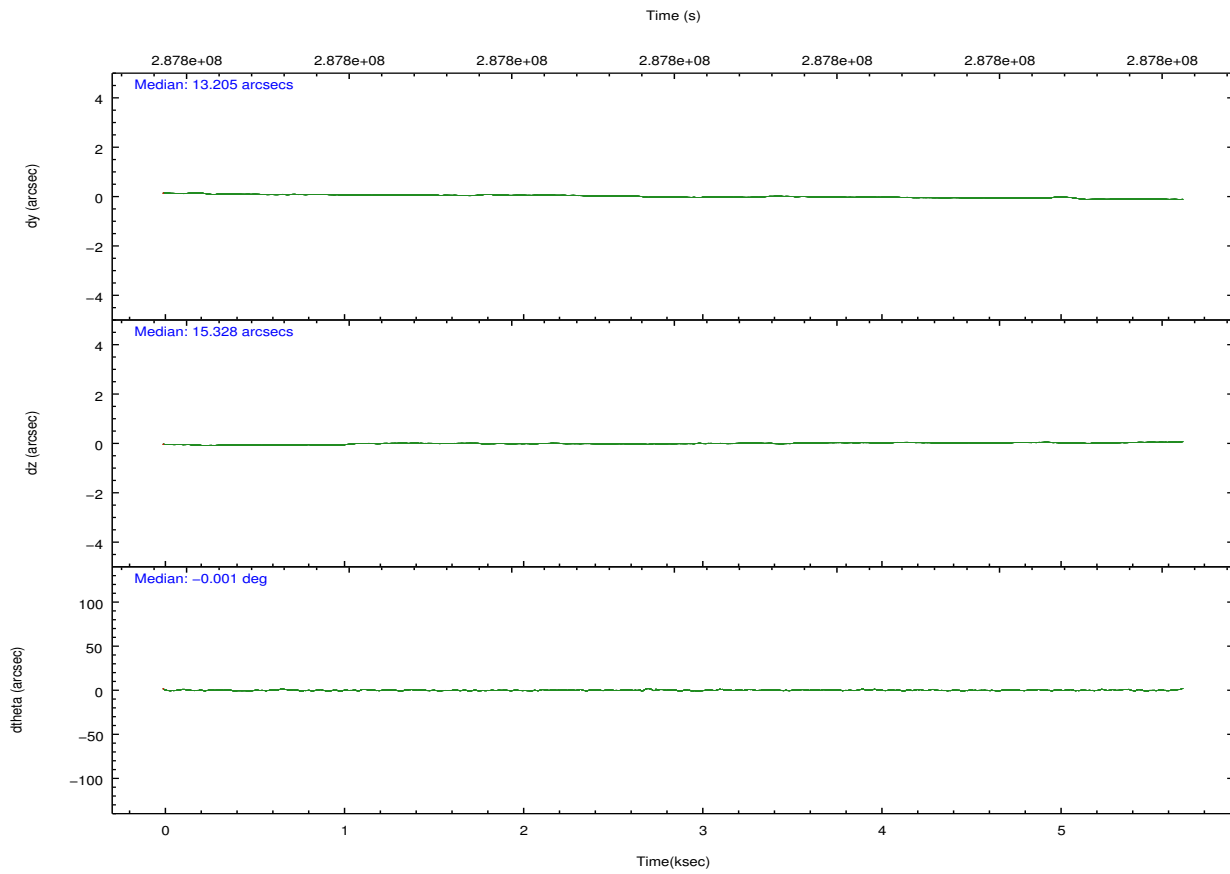
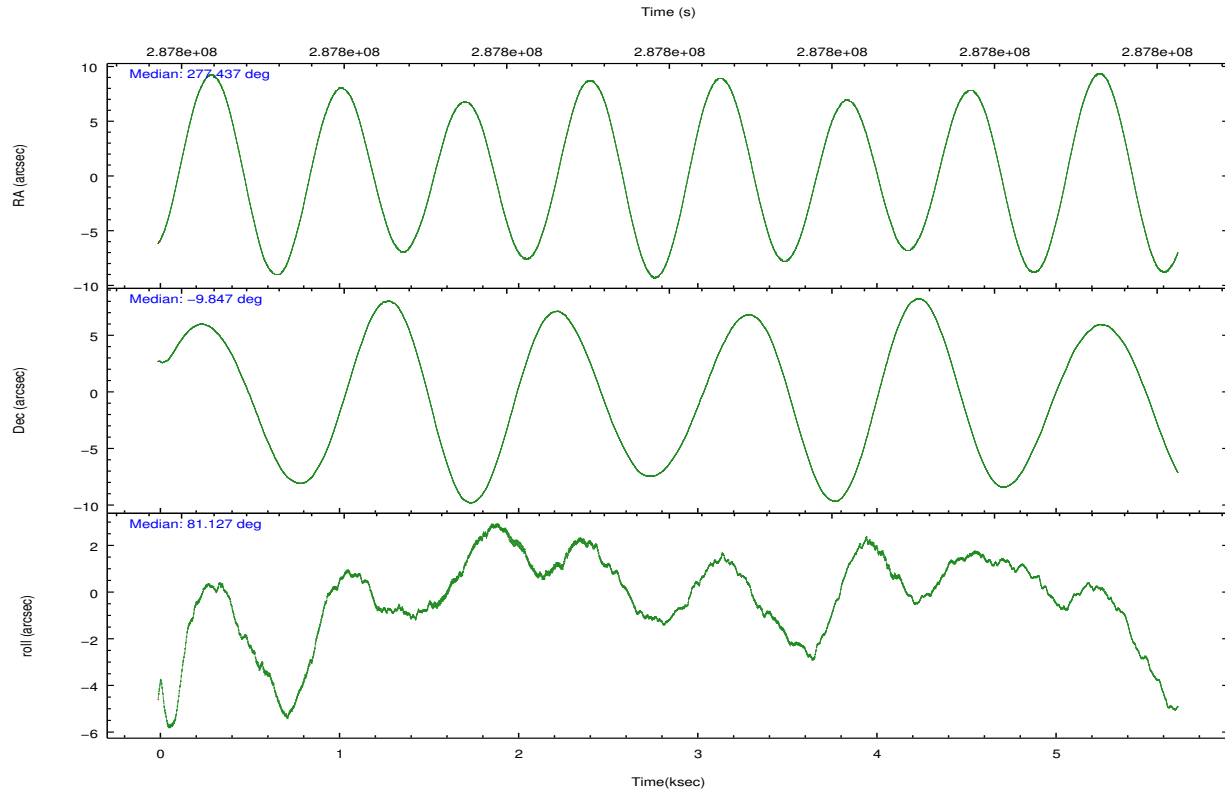
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2573	2563	2593	2610
	6%	5%	5%	5%
grade 1 events	21	21	36	28
	0%	0%	0%	0%
grade 2 events	1256	1447	1210	1157
	2%	3%	2%	2%
grade 3 events	529	610	497	510
	1%	1%	1%	1%
grade 4 events	470	555	497	567
	1%	1%	1%	1%
grade 5 events	1793	2035	1809	2142
	4%	4%	3%	4%
grade 6 events	1003	1177	940	973
	2%	2%	2%	2%
grade 7 events	34310	34477	37826	38606
	81%	80%	83%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	O1	Y
Observation mode	POINTING	POINTING	CCD I1 on	O2	Y
[deg] Pointing RA	277.447247	277.4370809083077	CCD I2 on	O3	Y
[deg] Pointing Dec	-9.872551	-9.846848997675599	CCD I3 on	Y	Y
[deg] Pointing Roll	80.922194	81.12914315571842	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	287798825.184000	287797700.98532	CCD S5 on	N	N
Observation start date	2007-02-14T00:06:00	2007-02-13T23:48:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	287803825.184000	287805011.79817	On-chip summing requested	N	N
Observation end date	2007-02-14T01:29:20	2007-02-14T01:50:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



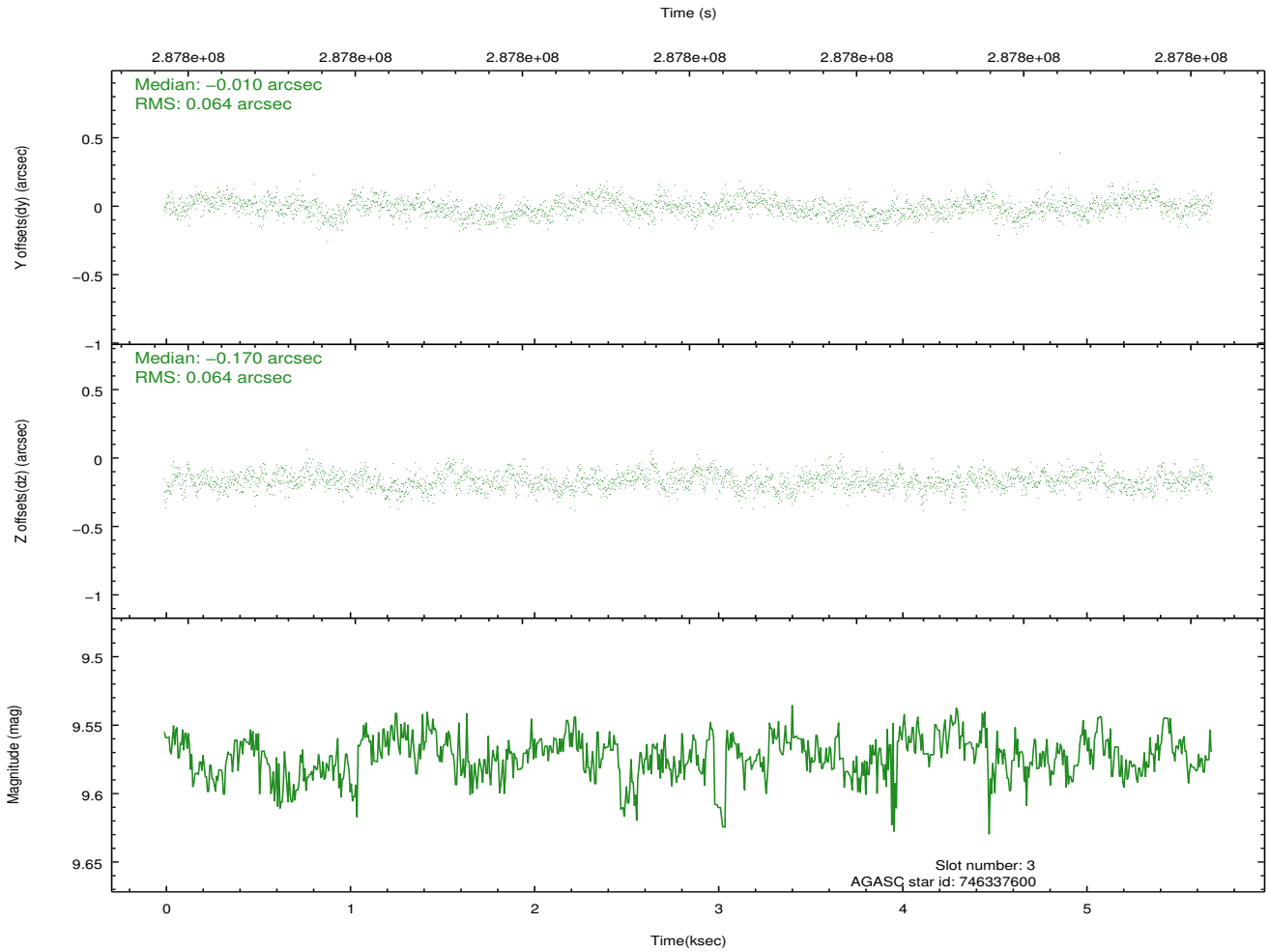
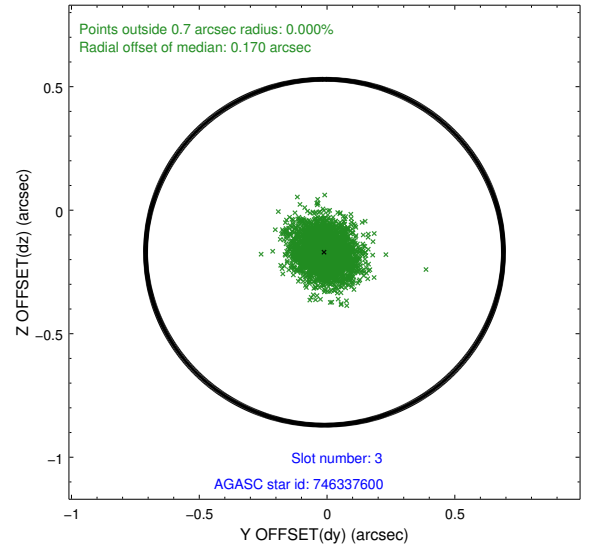
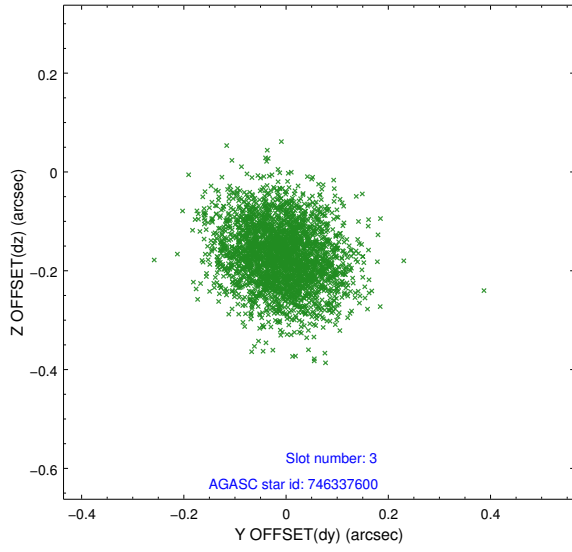


### Slot Statistics

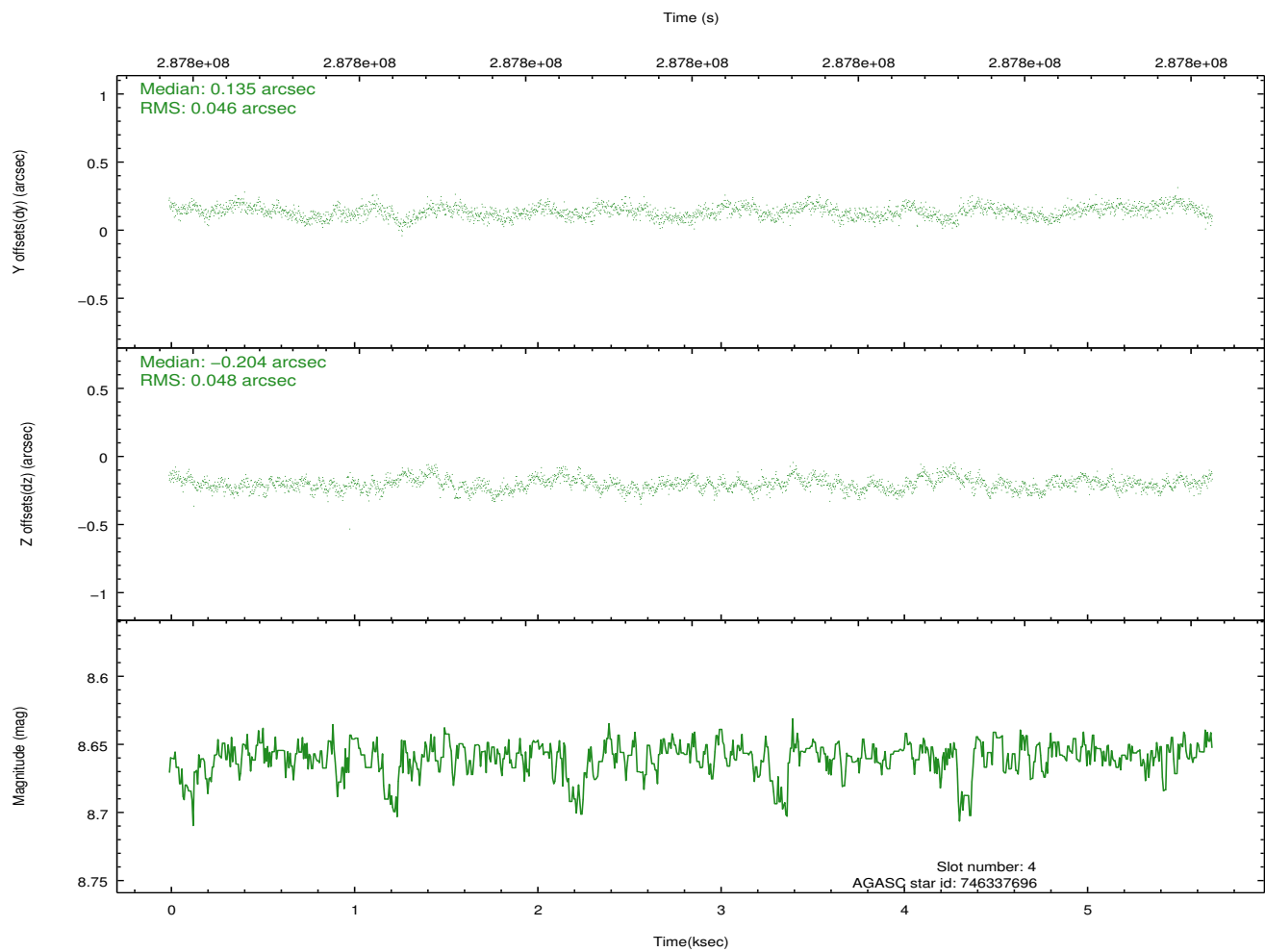
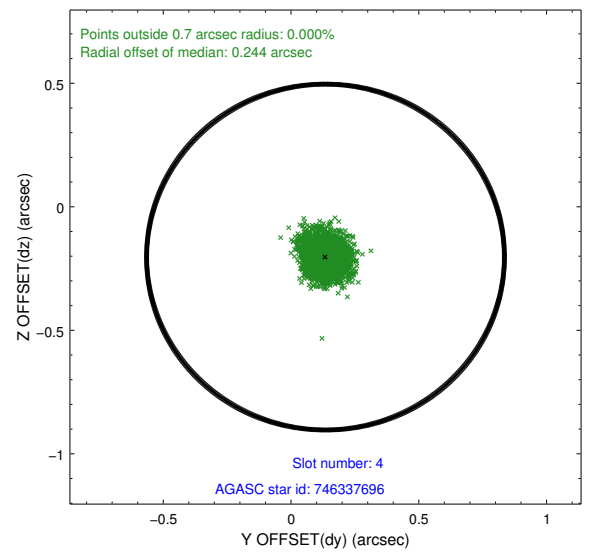
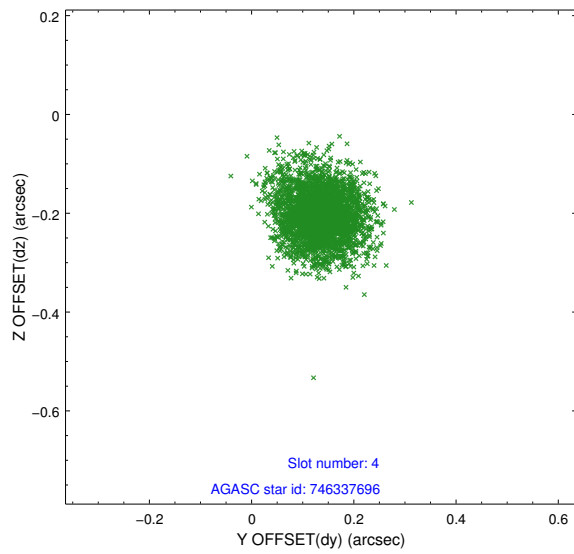
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1389	0.050	-0.042	0.007	0.014	0.000000	0.000000	926.34	-838.98
1	FID	ACIS-I-5	7.22	1389	-0.215	0.047	0.007	0.014	0.000000	0.000000	-1821.44	1058.09
2	FID	ACIS-I-6	7.24	1389	0.073	0.065	0.008	0.013	0.000000	0.000000	390.78	1703.78
3	GUIDE	746337600	9.57	2777	-0.010	-0.170	0.097	0.156	277.210435	-9.639804	694.38	962.02
4	GUIDE	746337696	8.66	2778	0.135	-0.204	0.071	0.117	277.198817	-10.226535	-1397.46	667.72
5	GUIDE	746338440	9.68	2776	-0.147	0.087	0.099	0.169	277.545963	-9.496982	1389.75	-132.30
6	GUIDE	746338464	9.45	2774	0.193	0.139	0.118	0.193	277.427613	-10.292647	-1503.65	-169.81
7	GUIDE	746460552	10.20	2769	-0.168	0.151	0.133	0.223	277.919390	-9.521528	1510.57	-1455.88

## 2.4 Star Slots

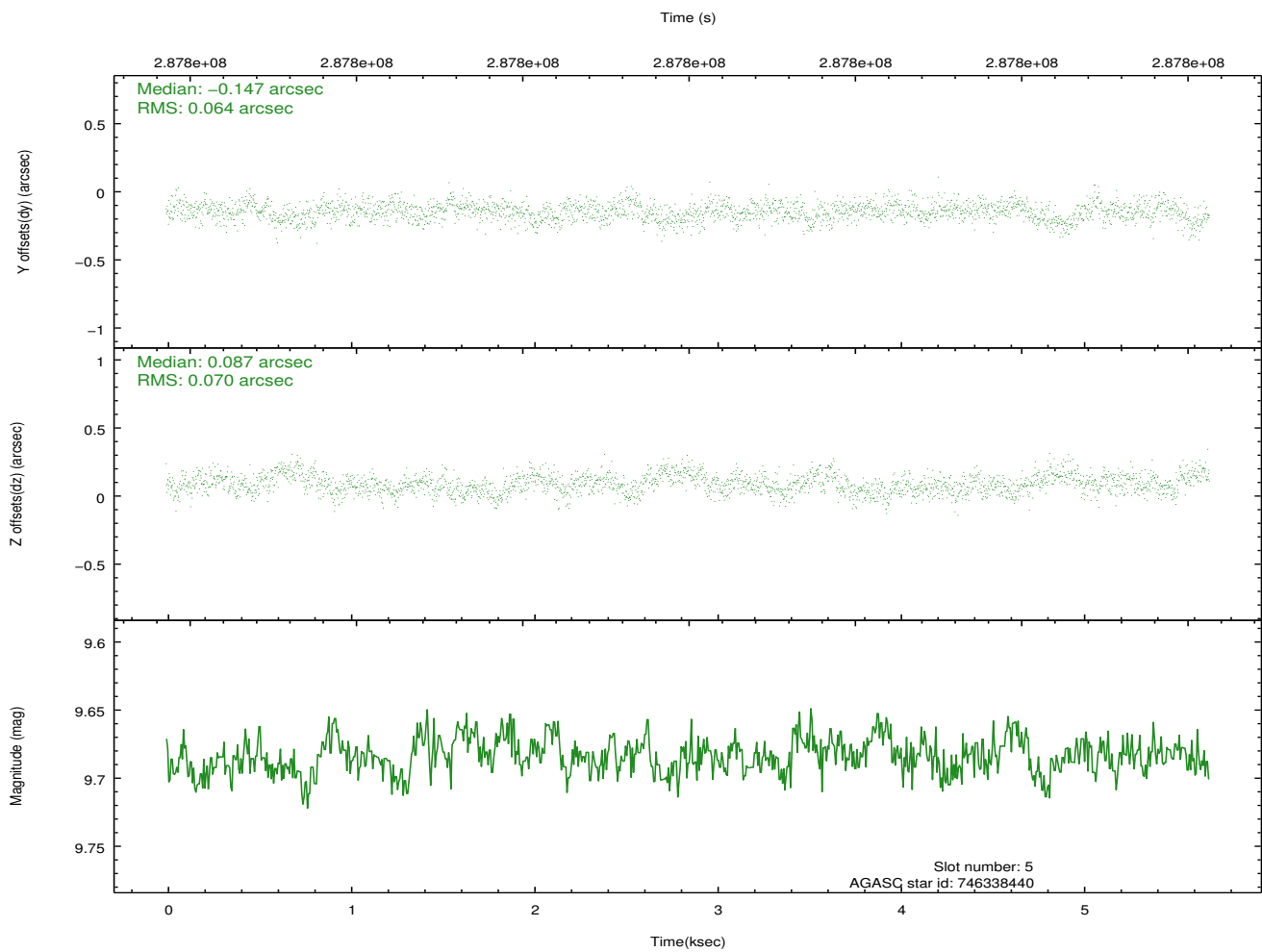
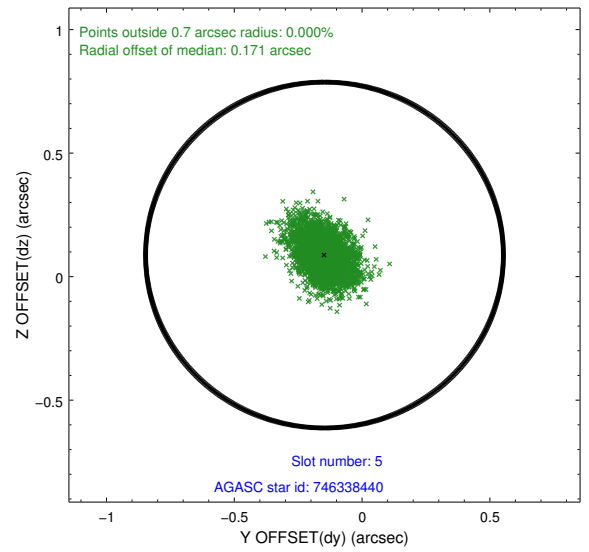
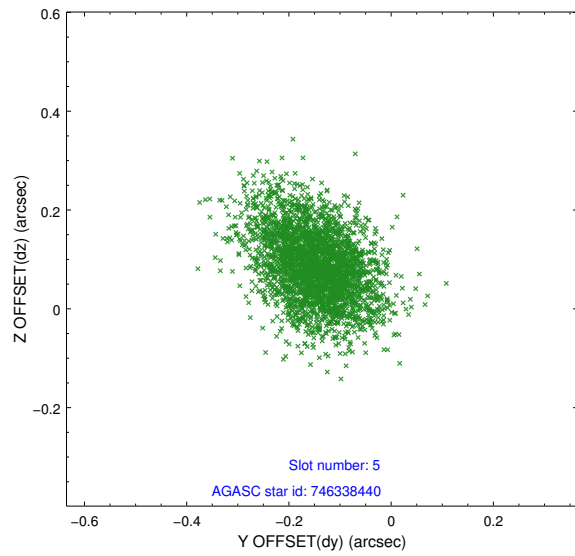
### 2.4.1 Slot 3



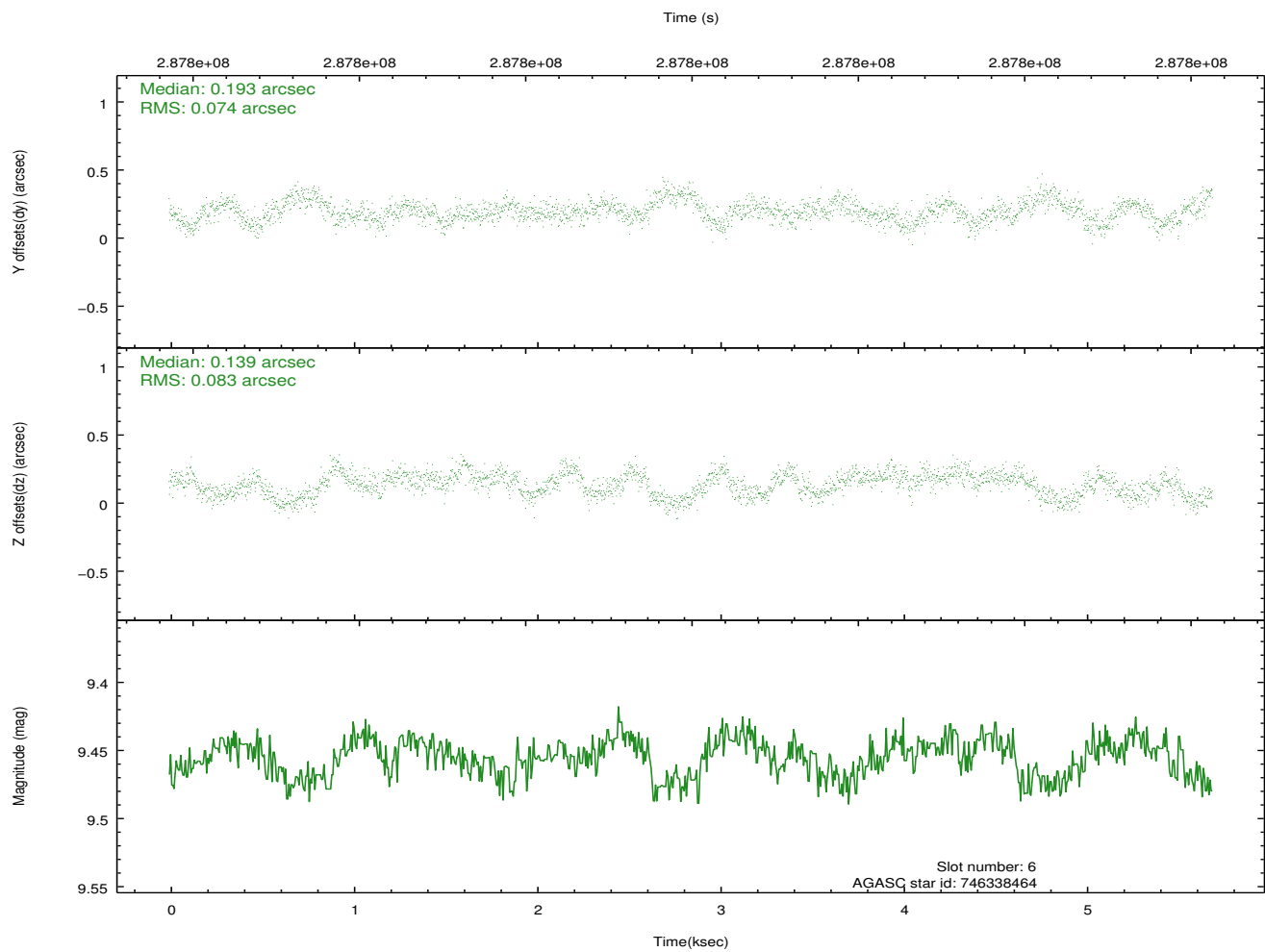
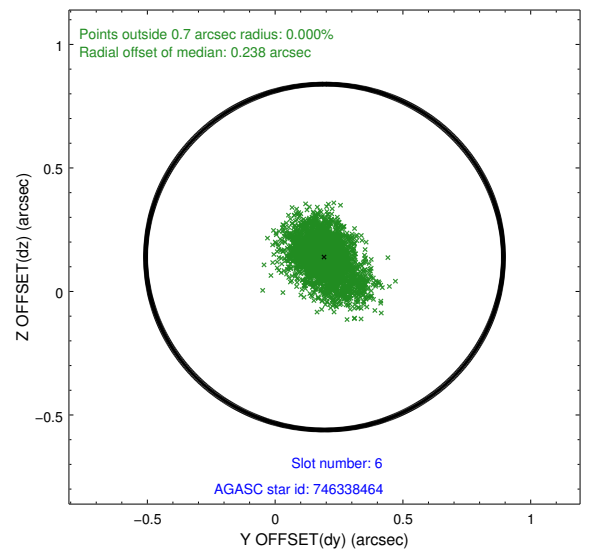
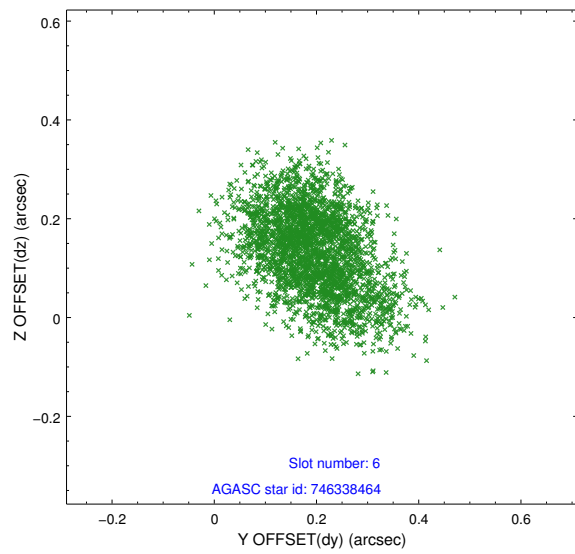
## 2.4.2 Slot 4



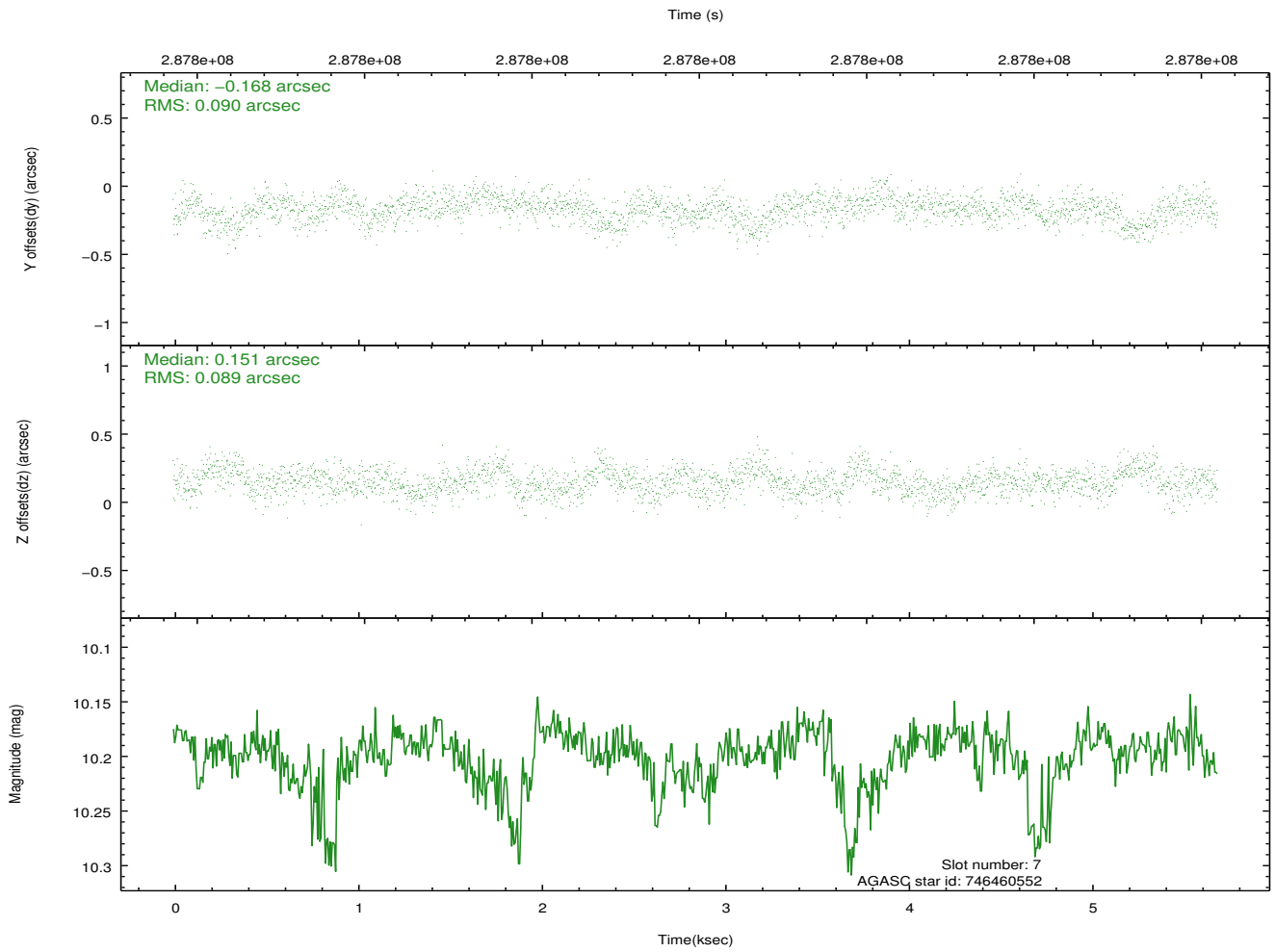
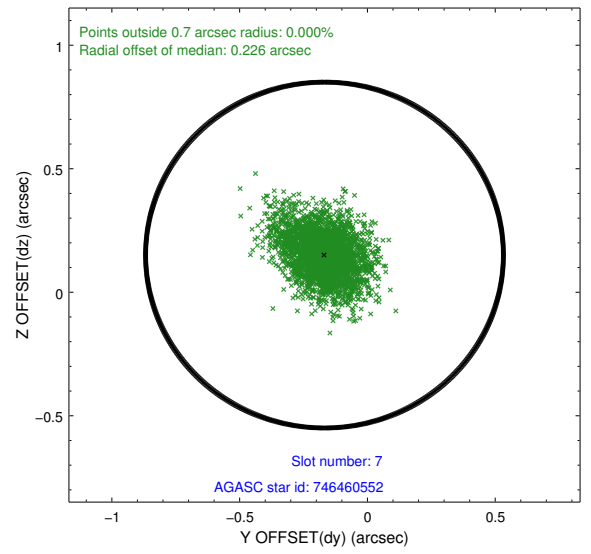
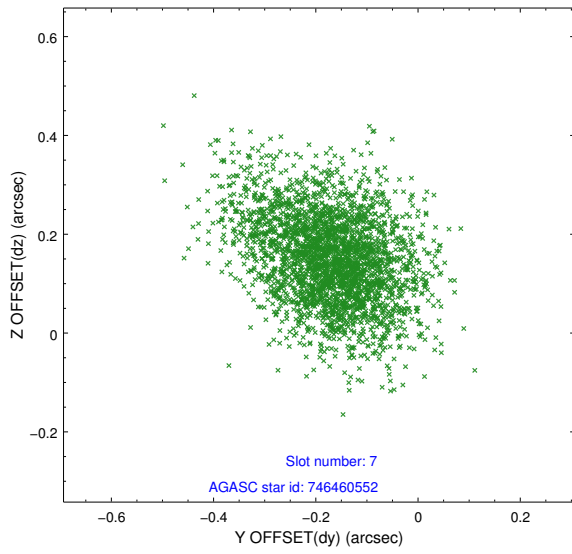
### 2.4.3 Slot 5



## 2.4.4 Slot 6

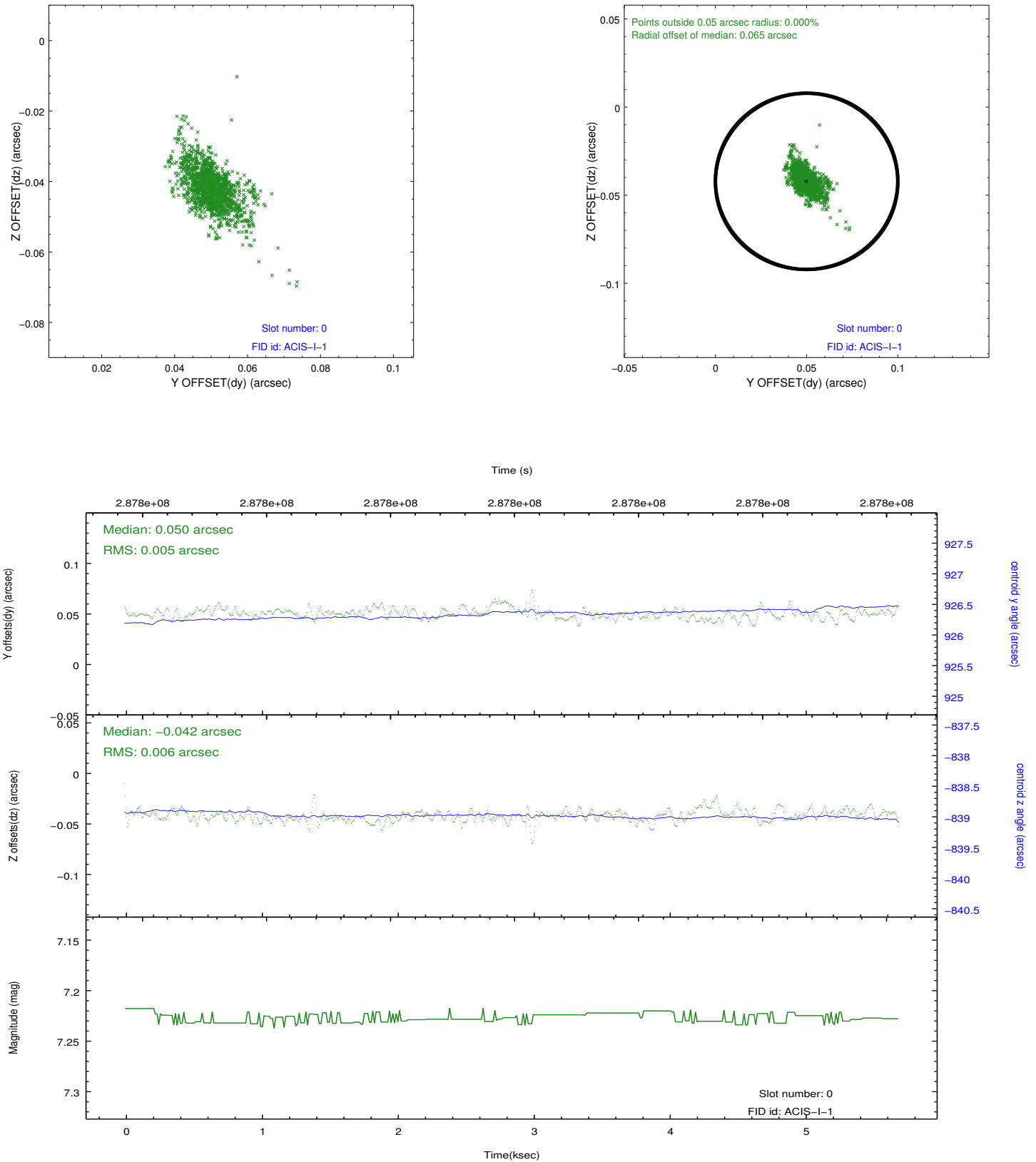


## 2.4.5 Slot 7

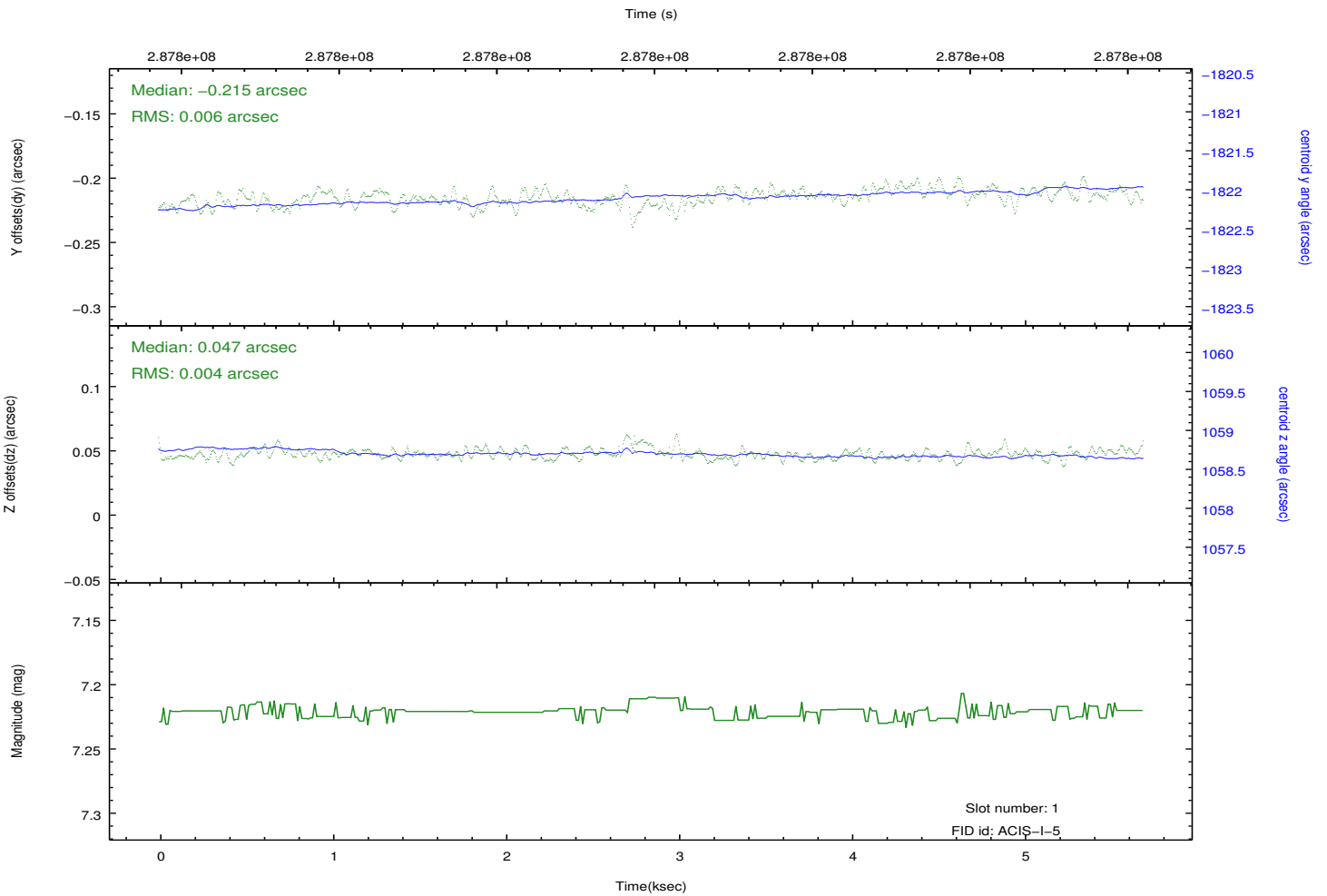
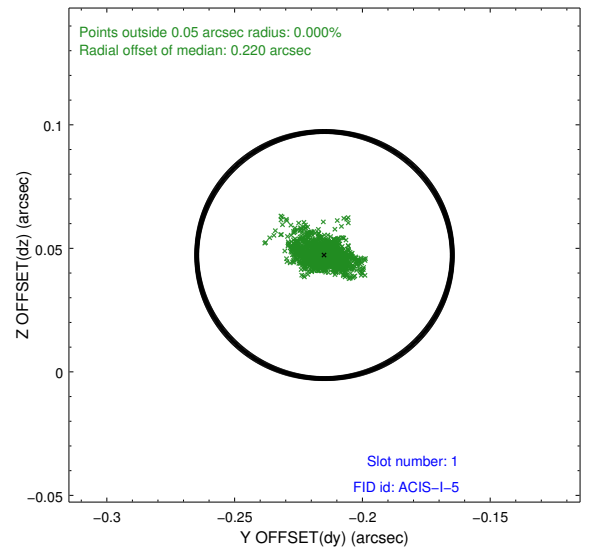
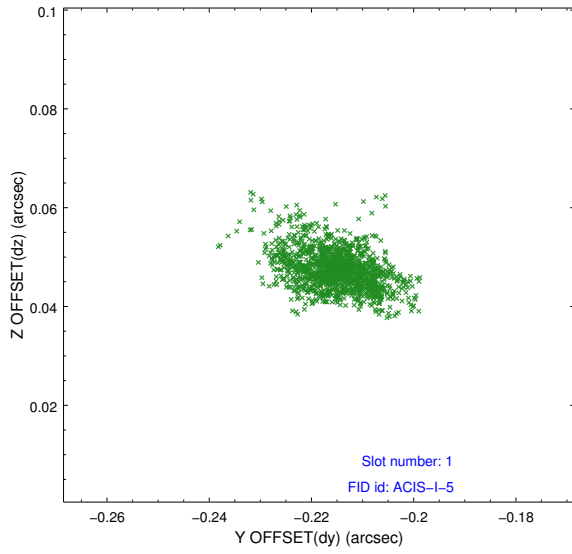


## 2.5 FID Slots

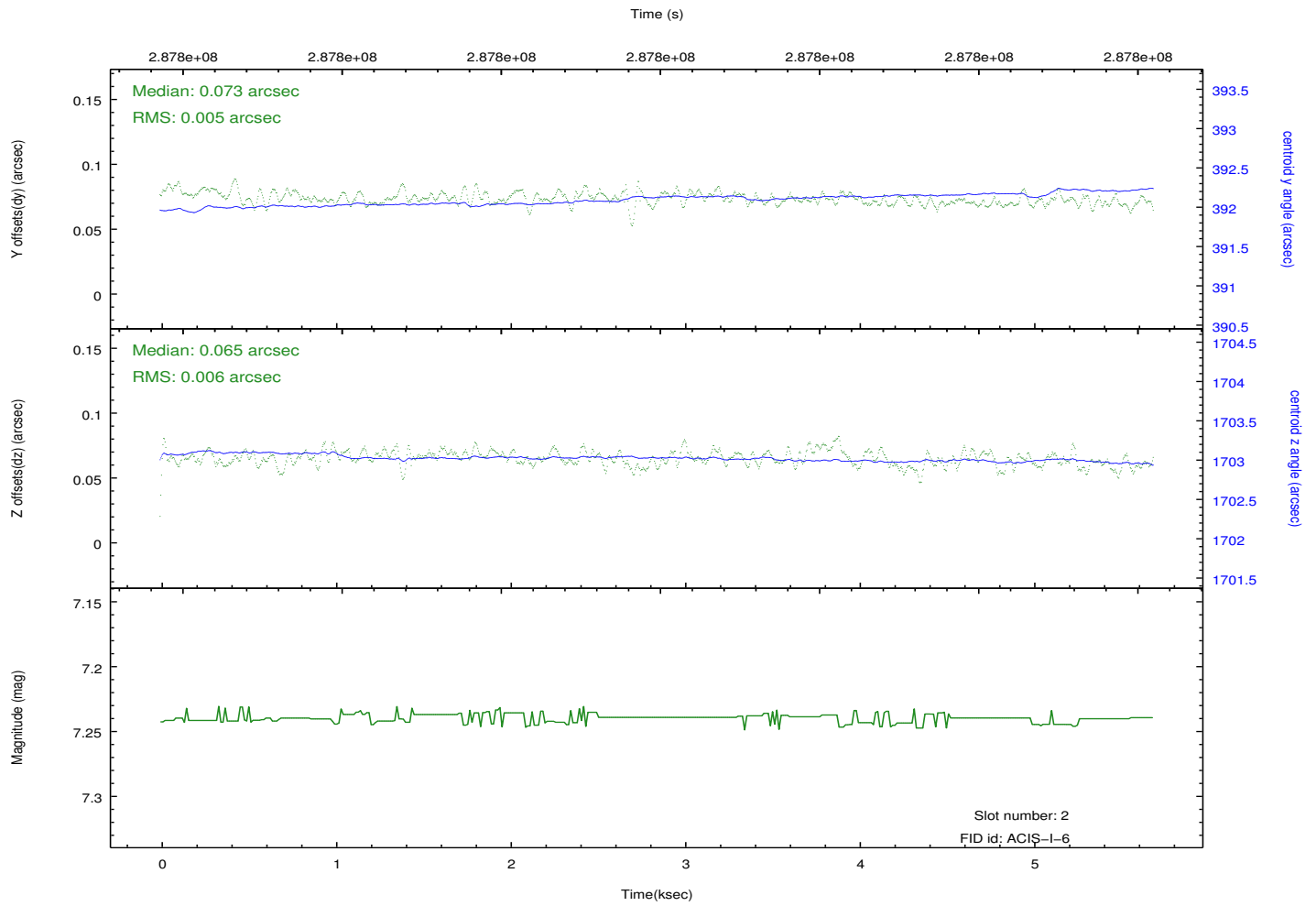
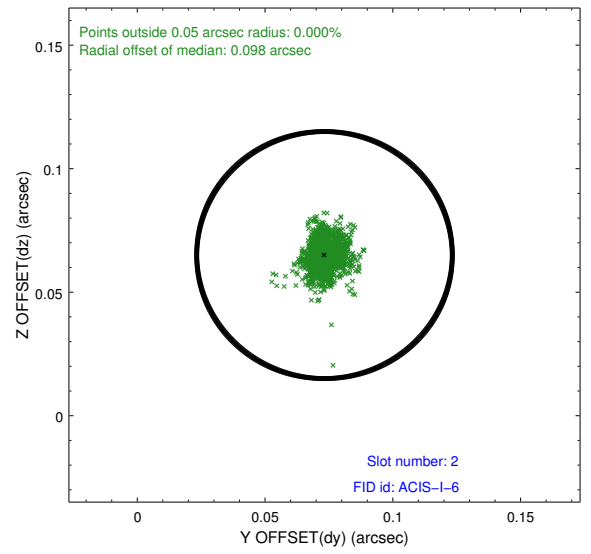
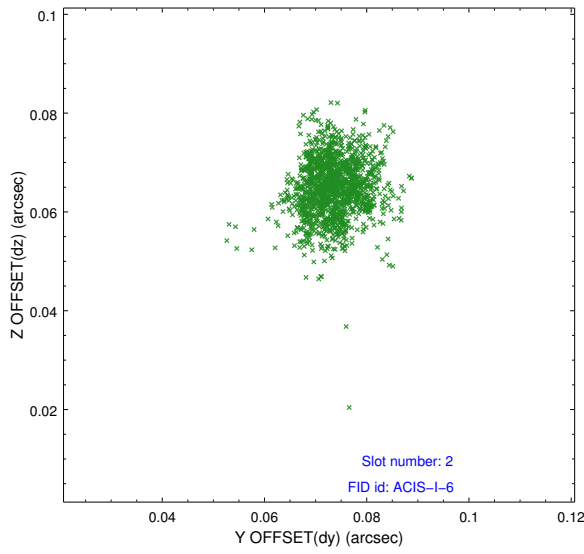
### 2.5.1 Slot 0



## 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)	2012.04.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.05610003

## A.2 Comments