

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3692 - L2 Version 3  
Chandra X-Ray Center

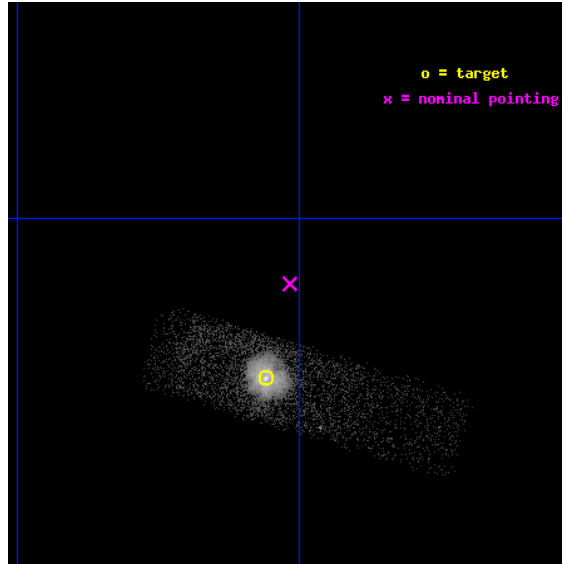
L2 Processing Date : Oct 28 2012

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# 1 Front

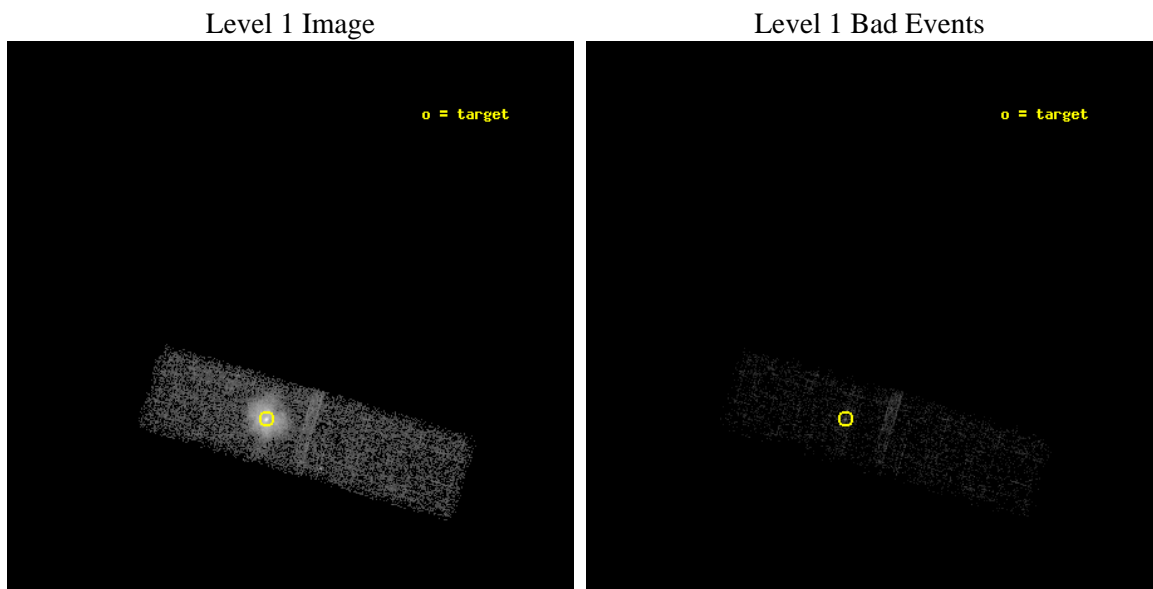
seq_num	590304	Sequence number
obs_id	3692	Observation id
title	AO4A OBSERVATIONS OF THE STANDARD CANDLES CAS A AND G21.5-09	Propo
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9[Chip I3, T=120, Offsets=-2.5,2.5,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.389583	Observer's specified target RA [deg]
dec_targ	-10.568528	Observer's specified target Dec [deg]
ra_nom	278.37925939555	Nominal RA [deg]
dec_nom	-10.528034884353	Nominal Dec [deg]
roll_nom	106.66352437146	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9678.789874047	Sum of GTIs [s]
livetime	9206.4965985419	Livetime [s]
ontime3	9678.789874047	Sum of GTIs [s]
l2events	27199	Number of level 2 events



## 2 OBI

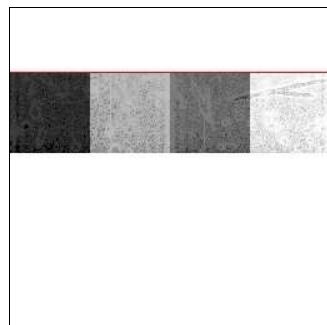
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9678.789874047	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime3	9678.789874047	Sum of GTIs [s]
date	2012-10-28T13:26:06	Date and time of file creation	l1events	63067	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

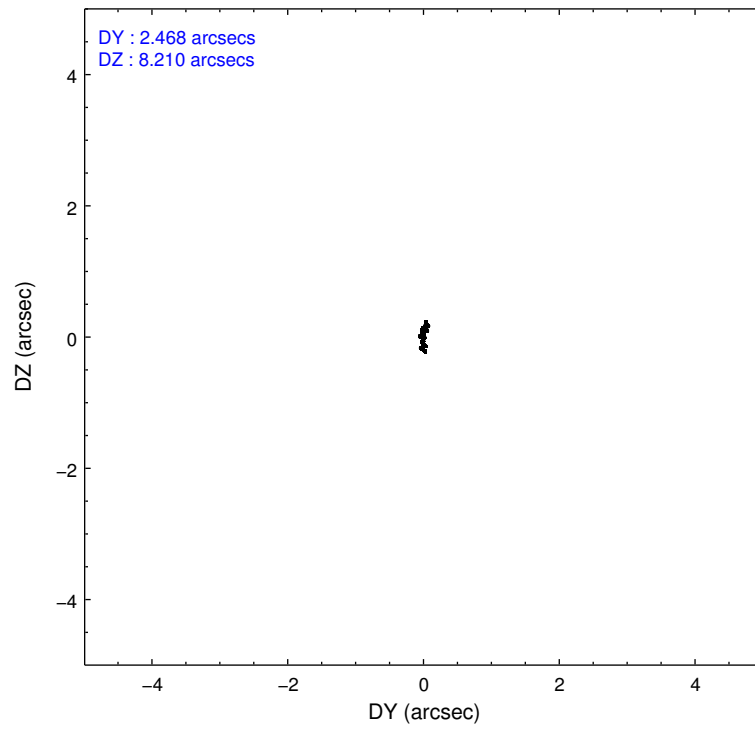
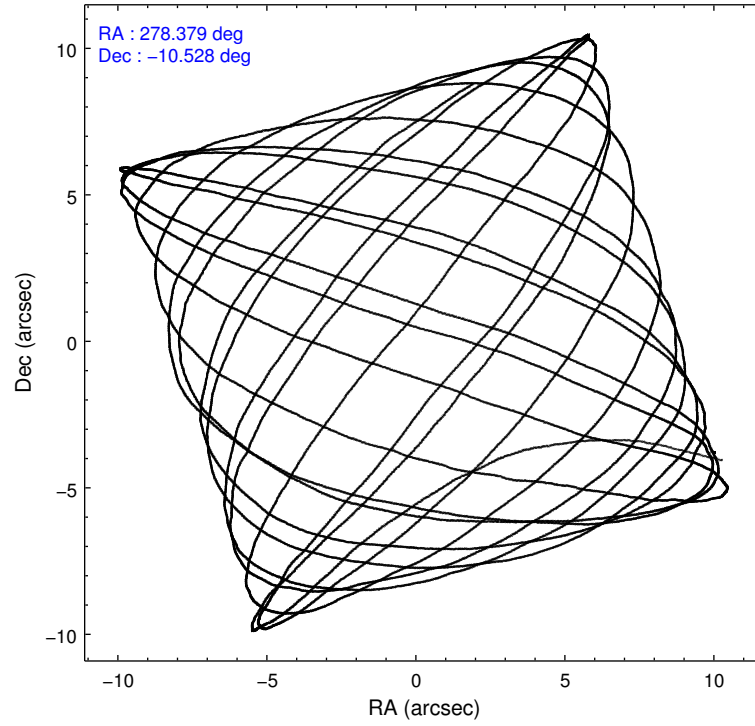
	<b>ccd 3</b>
level 1 events	63067
rejected events	34056
rejected %	<b>53%</b>

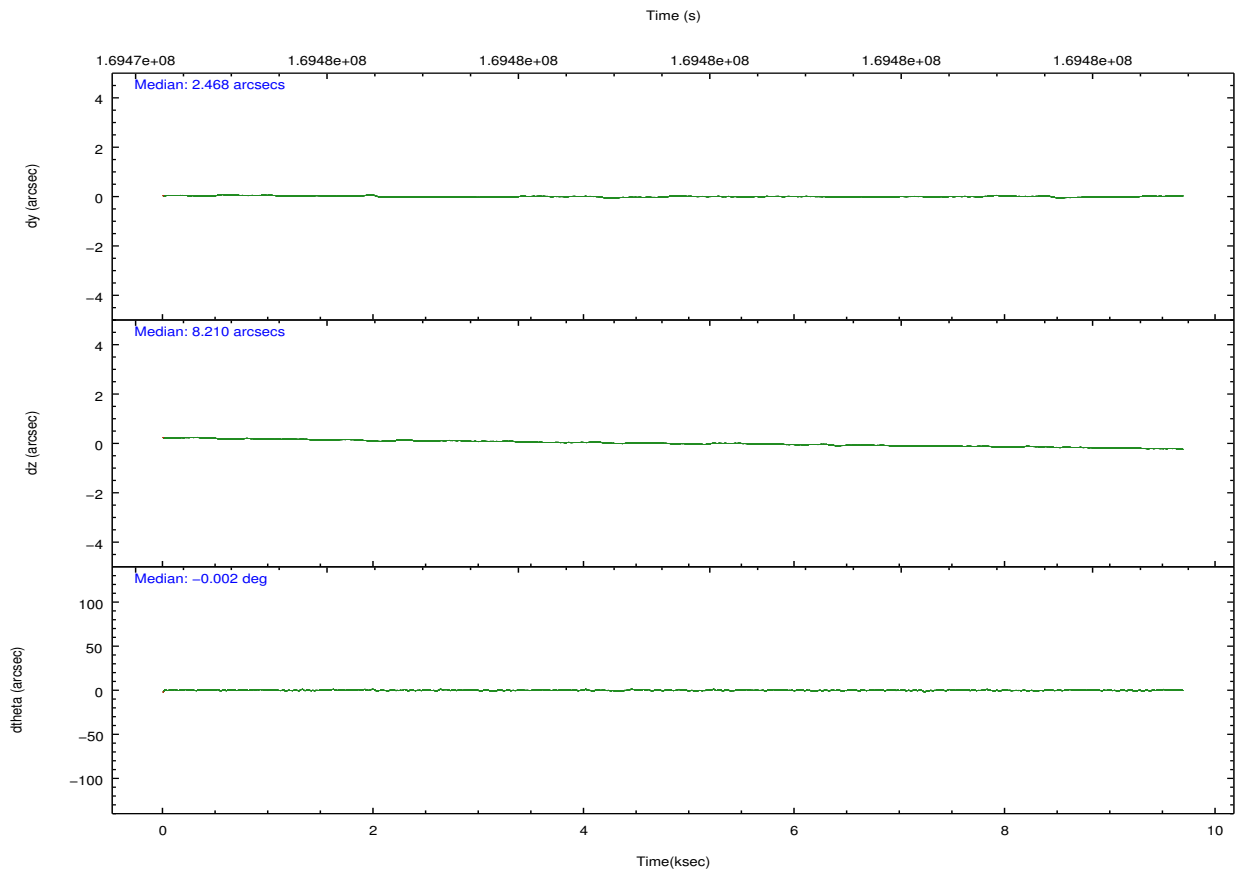
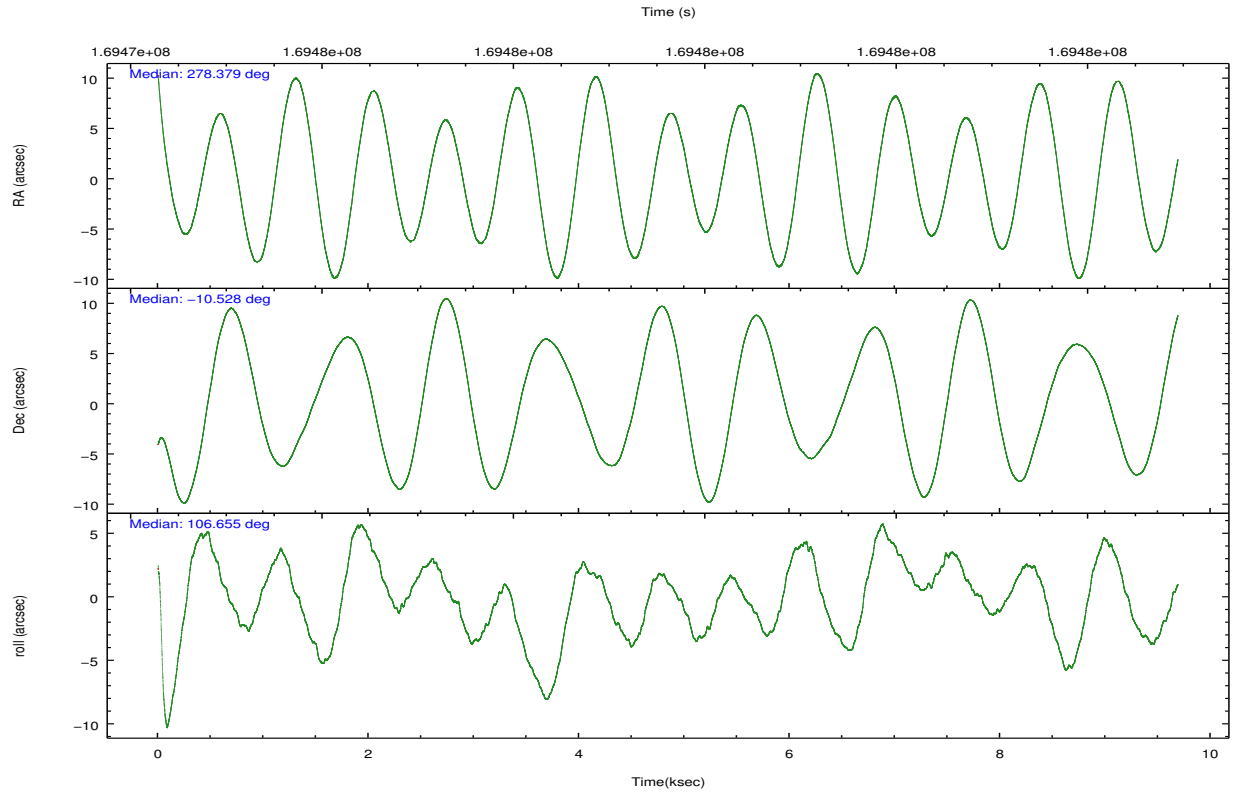
	<b>ccd 3</b>
grade 0 events	28573
	45%
grade 1 events	97
	0%
grade 2 events	5862
	9%
grade 3 events	2299
	3%
grade 4 events	2254
	3%
grade 5 events	909
	1%
grade 6 events	3195
	5%
grade 7 events	19878
	31%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	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	278.399629	278.3792593955451	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-10.546669	-10.52803488435313	Subarray start row	561	561
[deg] Pointing Roll	106.458545	106.6635243714632	Subarray row count	256	256
[s] Window start time (MET)	168134464.184000	168134464.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	170640064.184000	170640064.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-226.272463	-226.265748302686			
[mm] SIM translation stage offset	-7.32	-7.32670470024371			
[s] Observation start time (MET)	169474963.184000	169473076.82247			
Observation start date	2003-05-16T12:21:39	2003-05-16T11:51:16			
[s] Observation end time (MET)	169484463.184000	169484611.66046			
Observation end date	2003-05-16T14:59:59	2003-05-16T15:03:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect



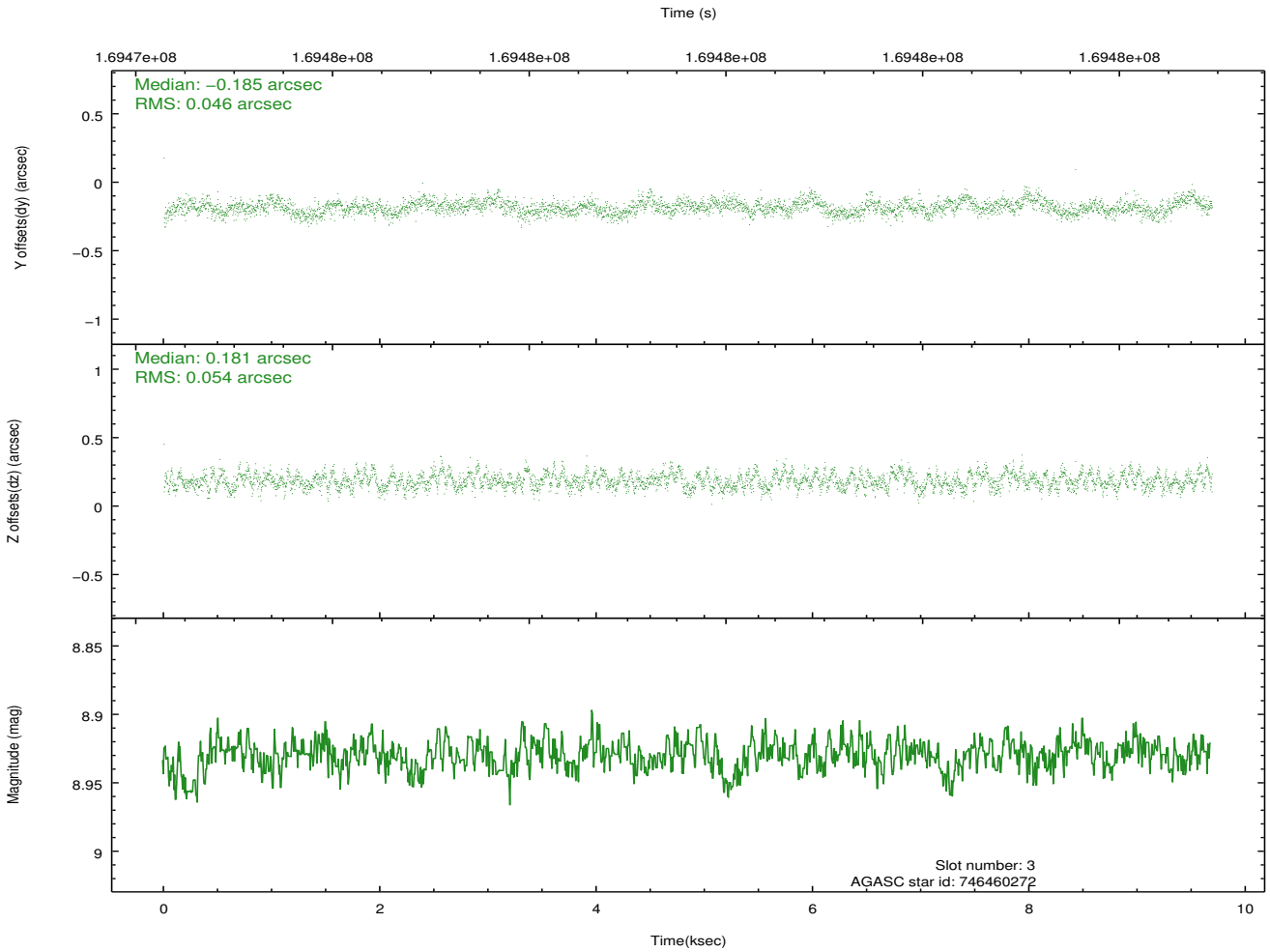
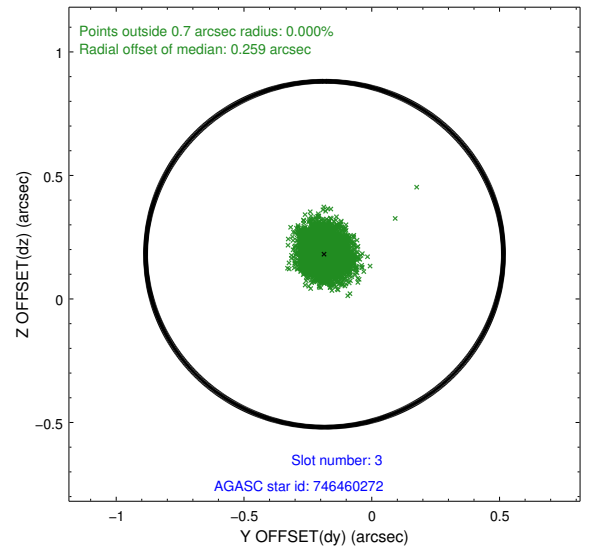
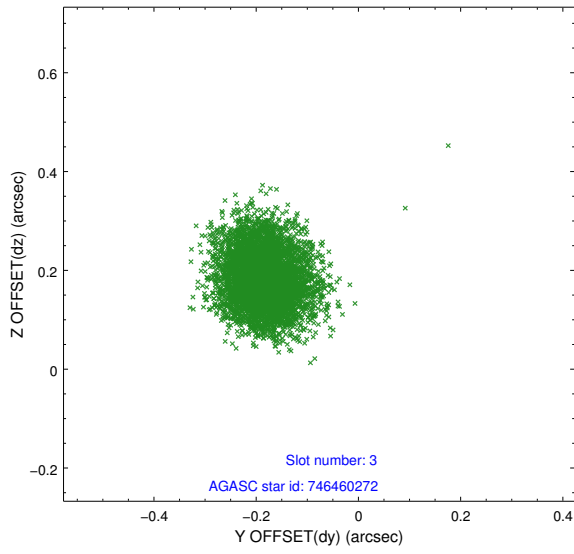


### Slot Statistics

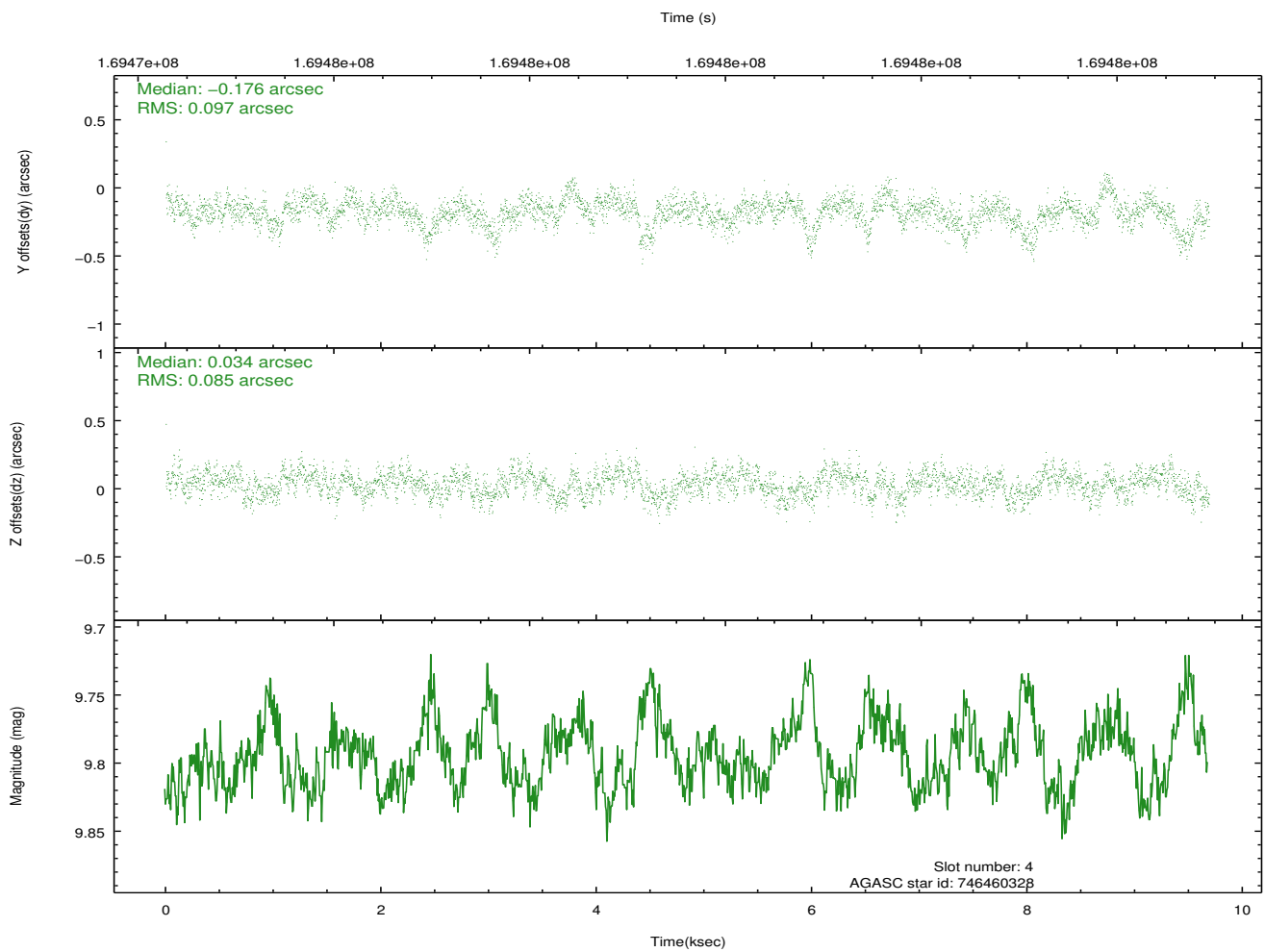
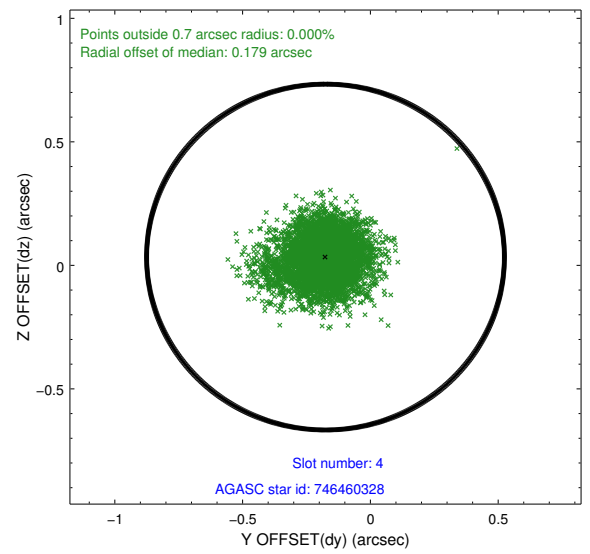
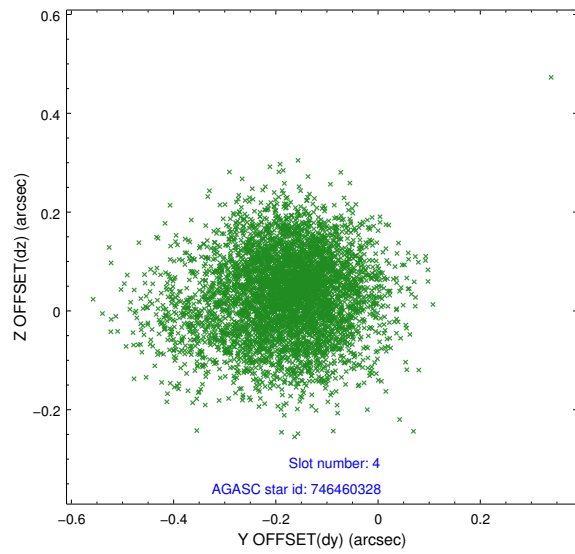
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	2354	0.046	-0.014	0.007	0.012	0.000000	0.000000	937.25	-982.05
1	FID	ACIS-I-5	7.23	2356	-0.168	0.064	0.006	0.010	0.000000	0.000000	-1810.77	915.16
2	FID	ACIS-I-6	7.25	2356	0.030	0.020	0.007	0.011	0.000000	0.000000	402.16	1560.27
3	GUIDE	746460272	8.93	4715	-0.185	0.181	0.075	0.121	278.847488	-10.152127	912.04	-1923.69
4	GUIDE	746460328	9.80	4702	-0.176	0.034	0.135	0.227	278.603974	-9.898096	2034.11	-1356.32
5	GUIDE	746462392	8.53	4716	0.090	0.058	0.069	0.109	279.038421	-10.890715	-1829.38	-1814.79
6	GUIDE	746462456	8.39	4715	0.102	-0.035	0.057	0.093	278.652171	-10.530173	-196.78	-874.22
7	GUIDE	746995400	9.51	4713	0.173	-0.234	0.100	0.164	278.078957	-11.289885	-2245.50	1843.38

## 2.4 Star Slots

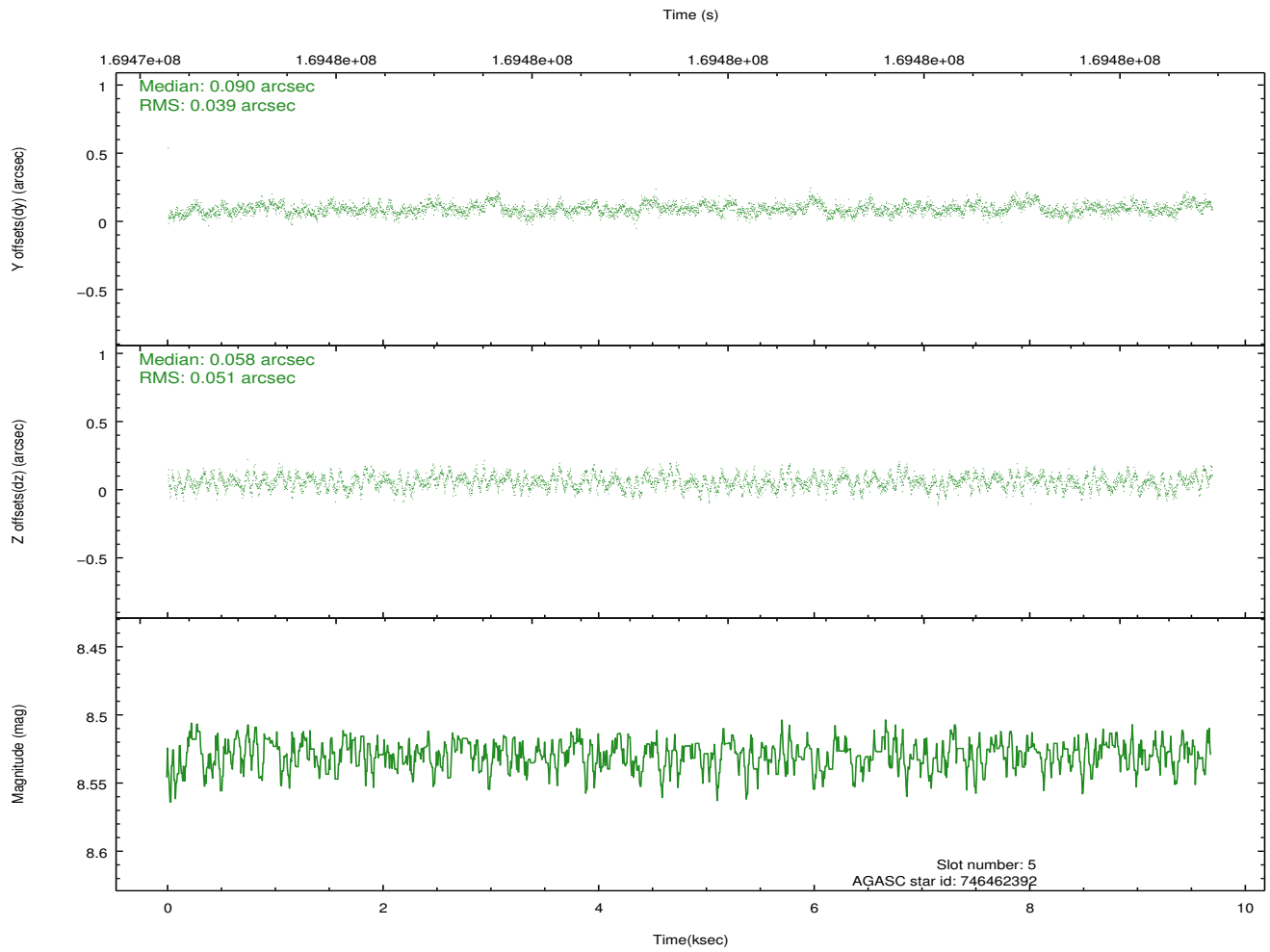
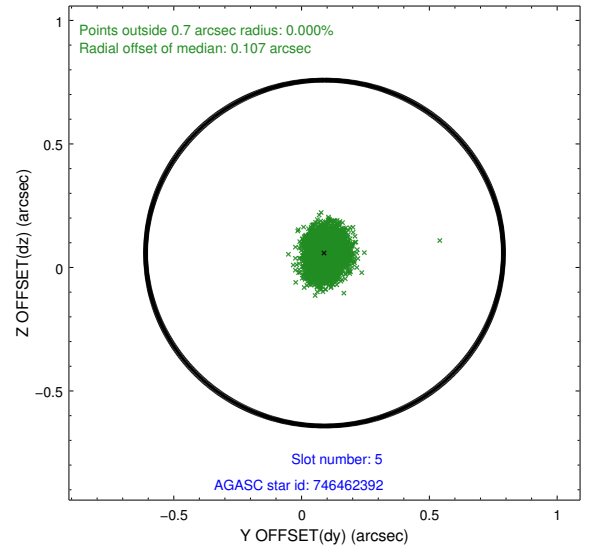
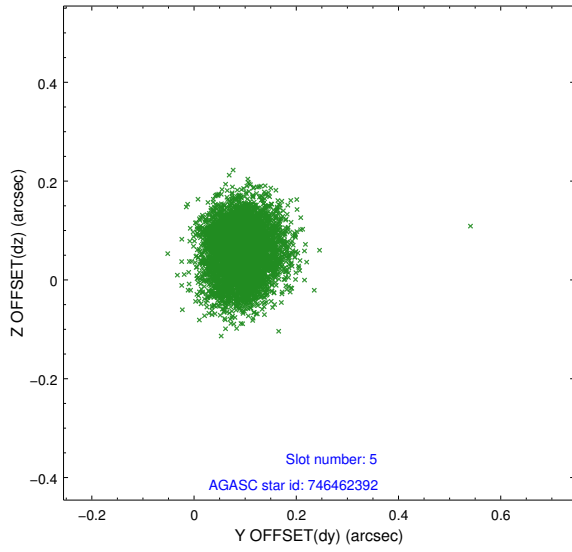
### 2.4.1 Slot 3



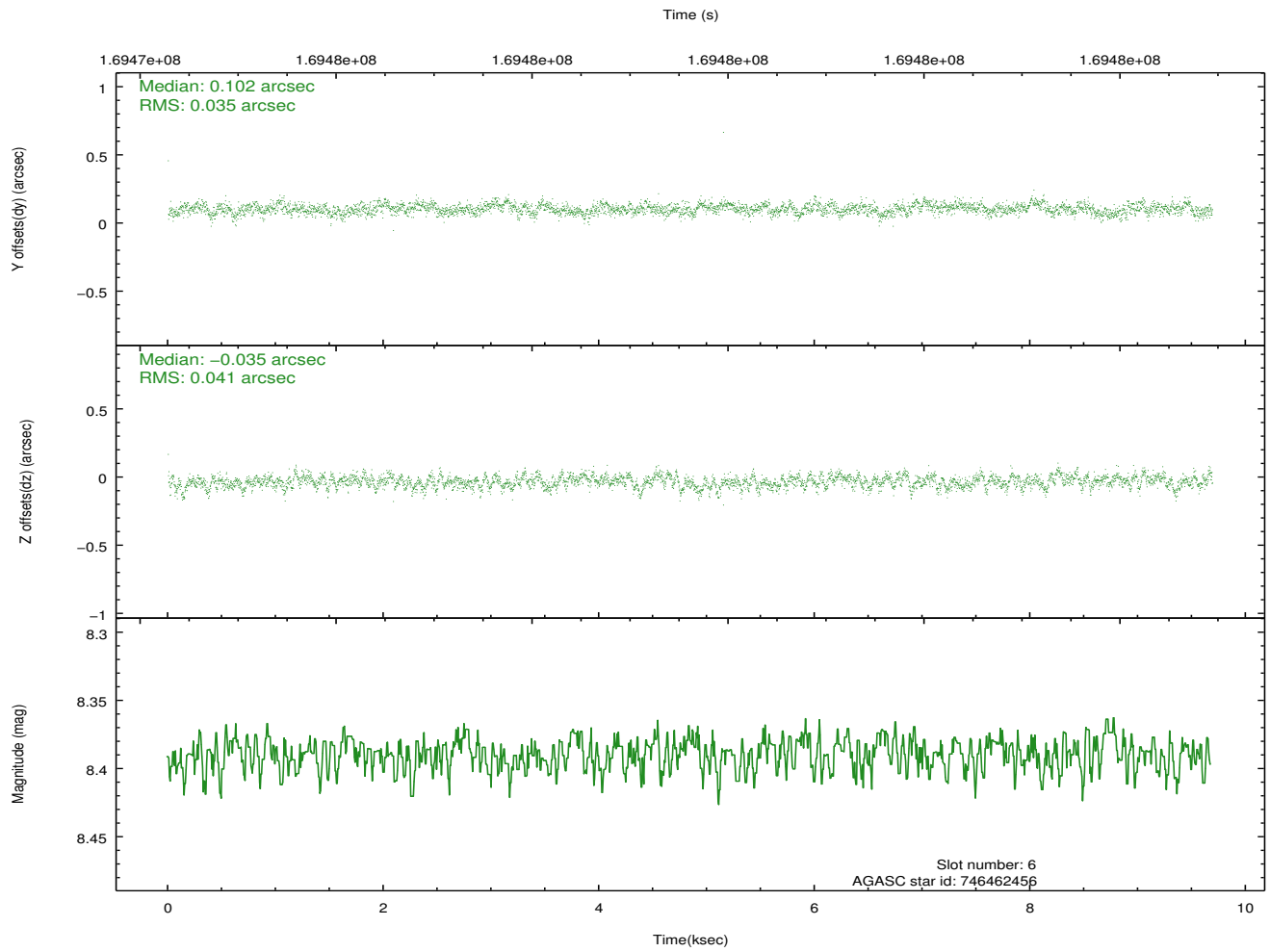
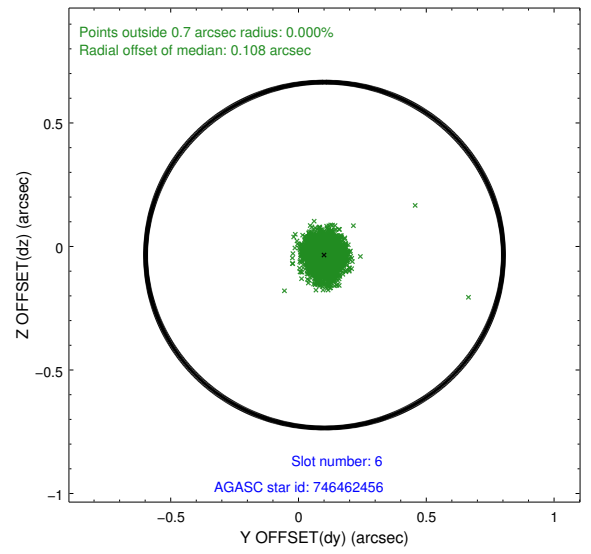
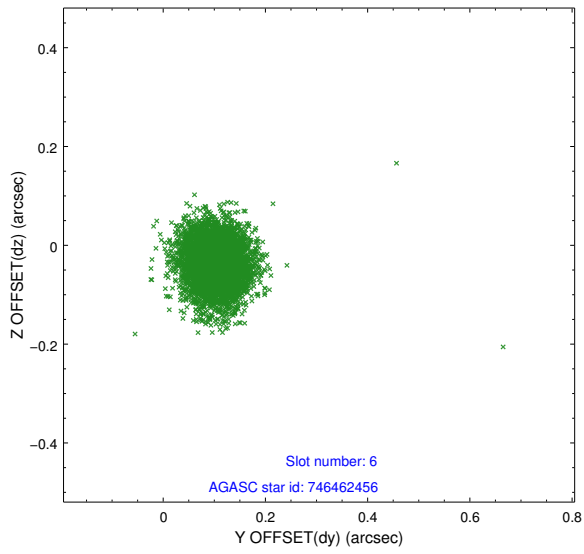
## 2.4.2 Slot 4



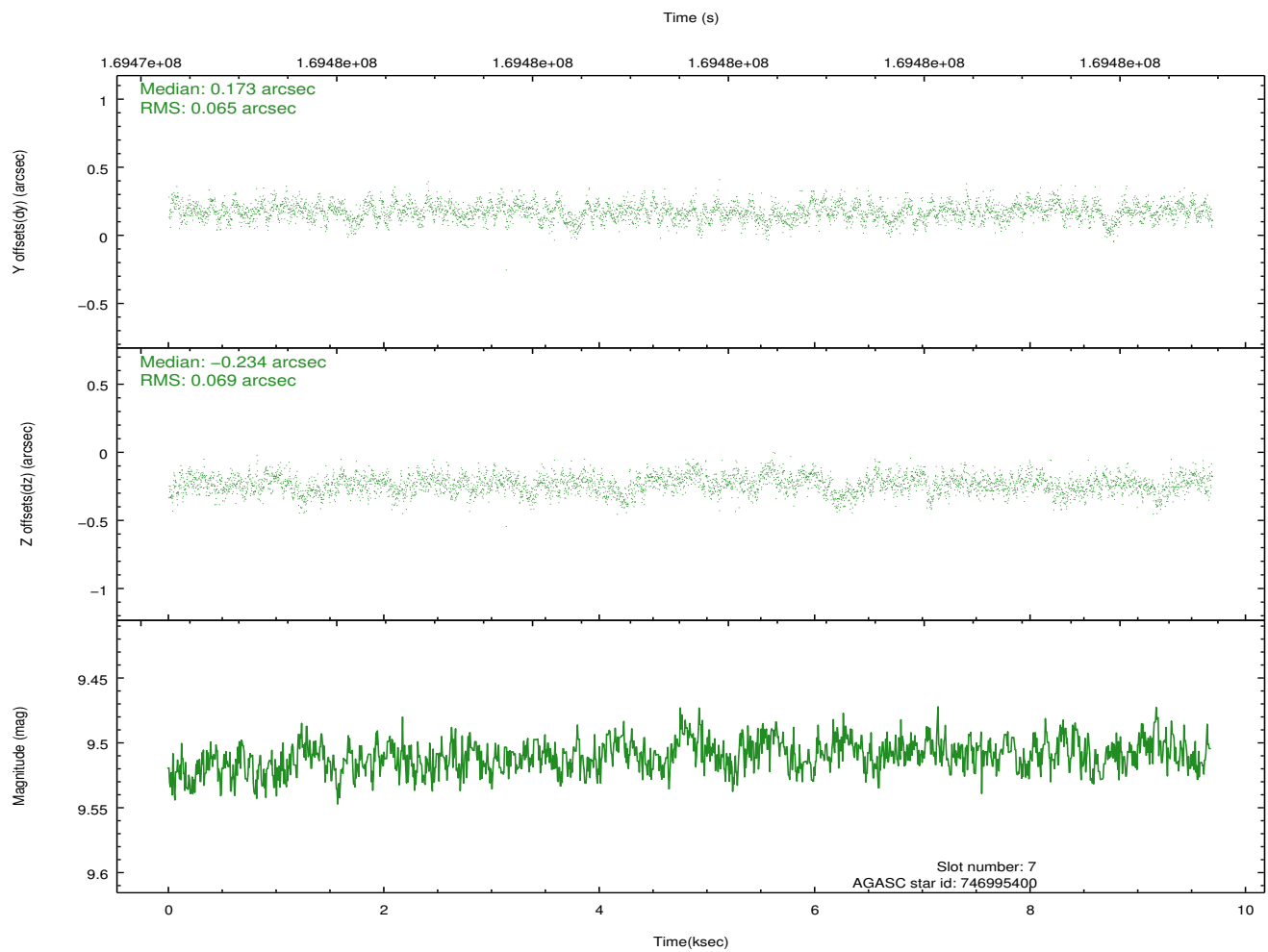
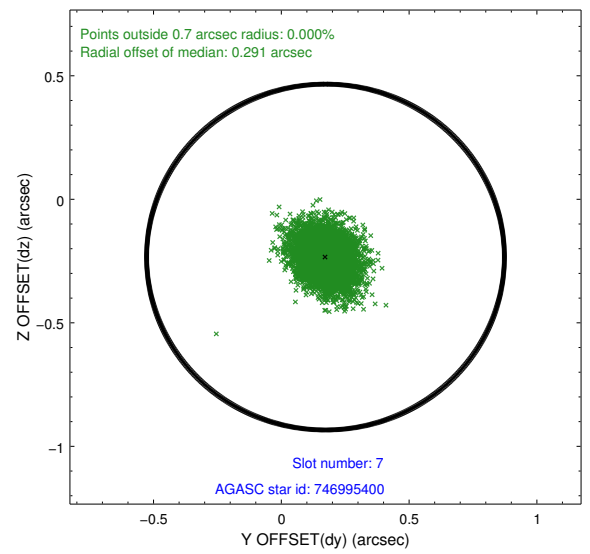
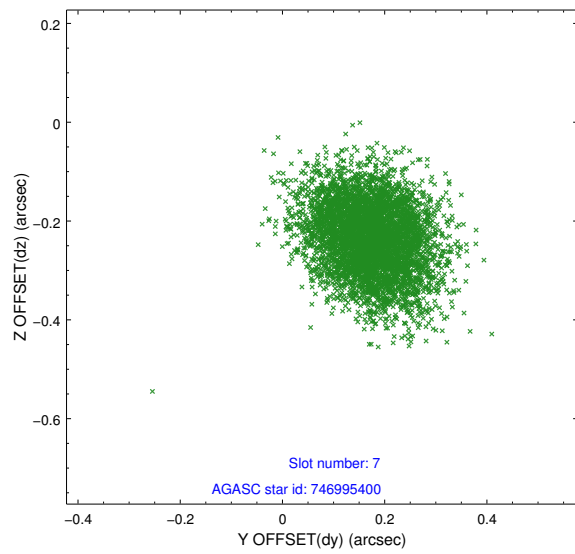
### 2.4.3 Slot 5



### 2.4.4 Slot 6

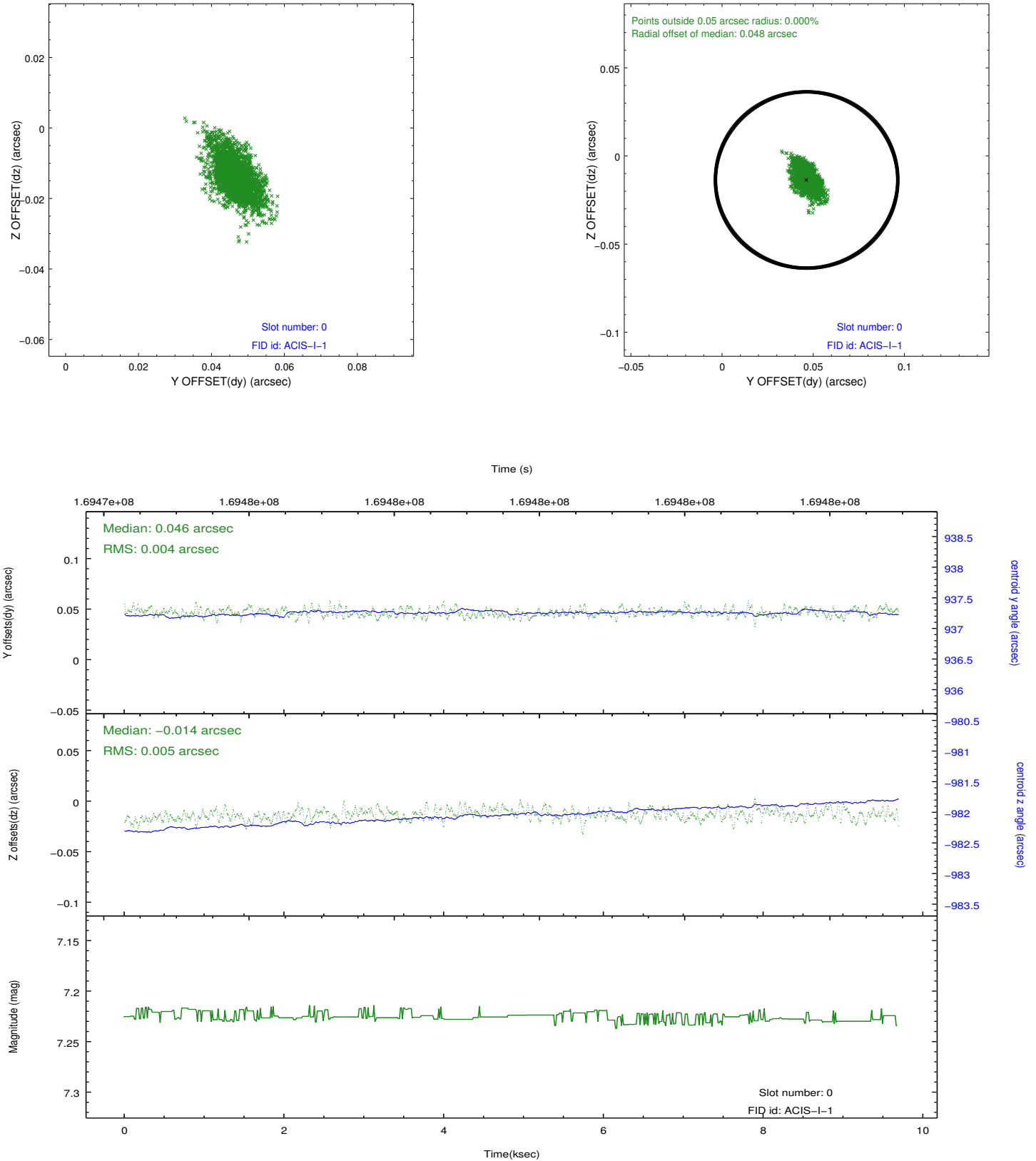


## 2.4.5 Slot 7

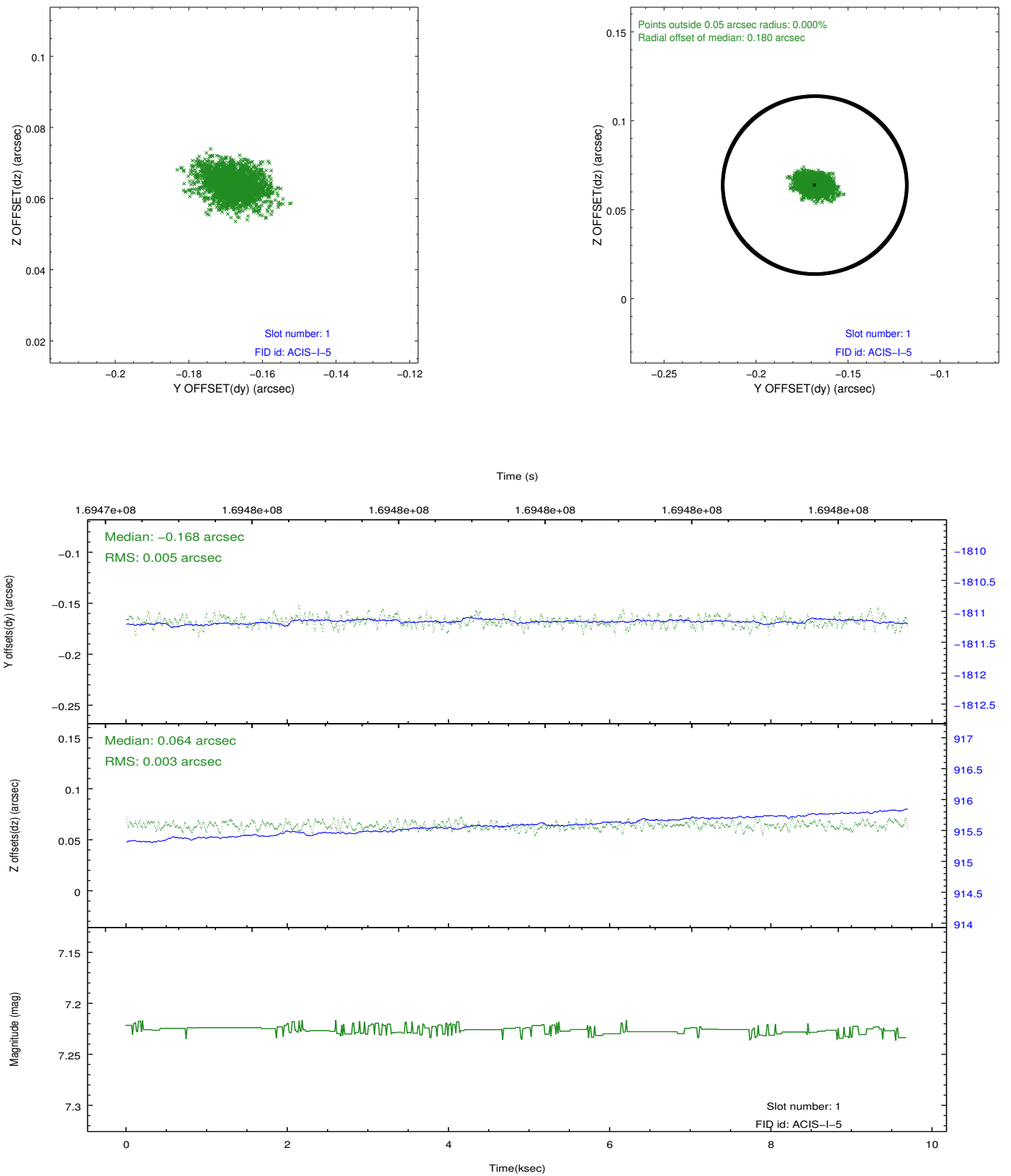


## 2.5 FID Slots

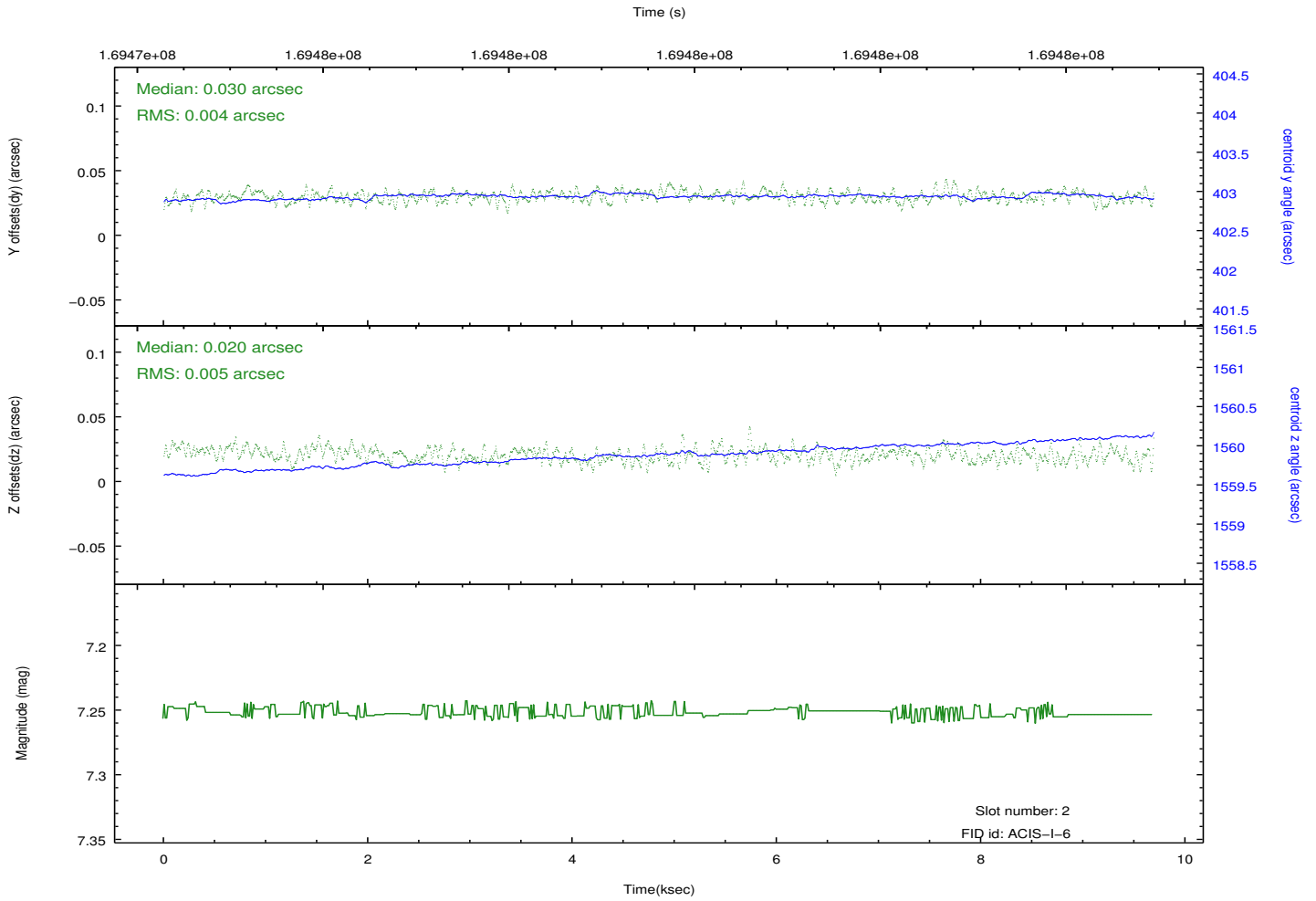
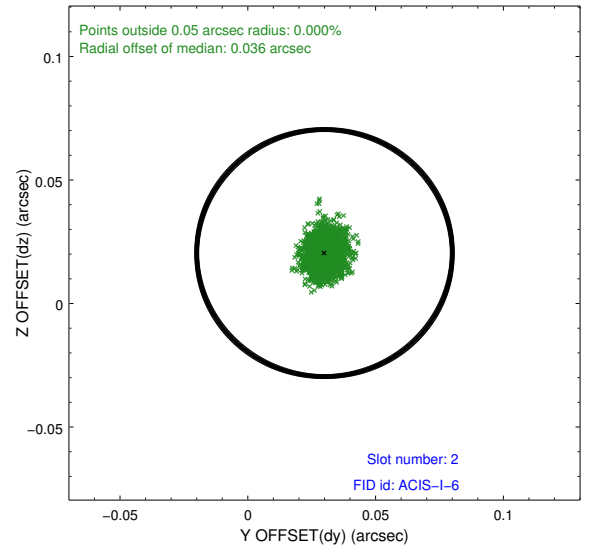
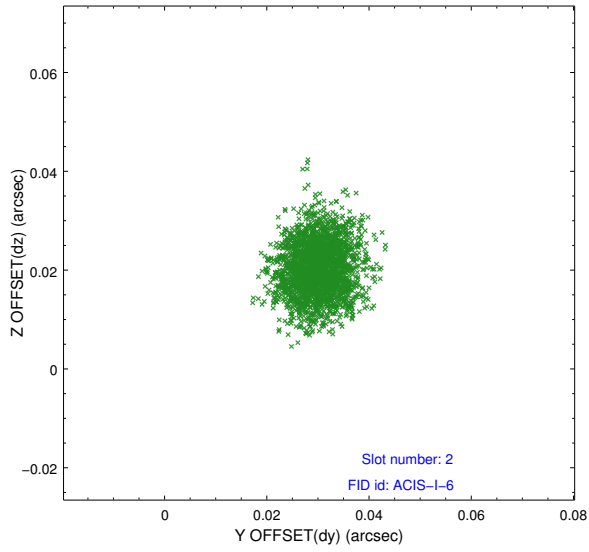
### 2.5.1 Slot 0



## 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)	2012.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.678

## A.2 Comments

Window constraint met.