

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12326 - L2 Version 2  
Chandra X-Ray Center

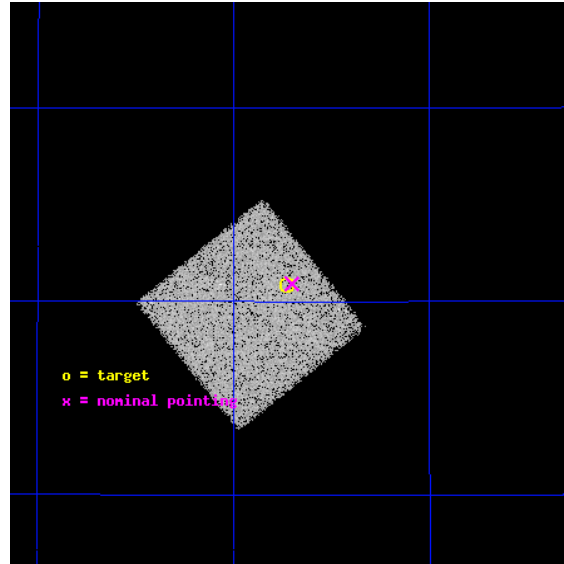
L2 Processing Date : Jul 7 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

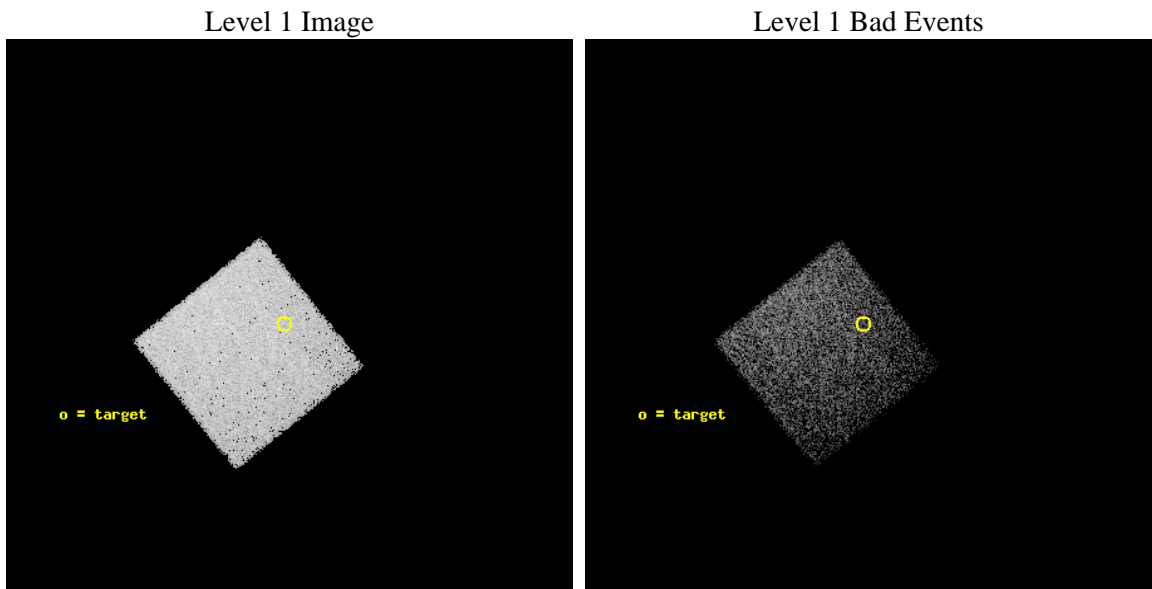
seq_num	200664	Sequence number
obs_id	12326	Observation id
title	Calibrating the time-evolution of the high-energy emissions of GKM stars: key to modeling exoplanet atmospheres	Proposal title
observer	Dr. Ignasi Ribas	Principal investigator
object	NLTT15797	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.9325	Observer's specified target RA [deg]
dec_targ	46.847972	Observer's specified target Dec [deg]
ra_nom	88.925448764553	Nominal RA [deg]
dec_nom	46.848590934454	Nominal Dec [deg]
roll_nom	141.08993010802	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10079.532895505	Sum of GTIs [s]
livetime	9943.505737023	Livetime [s]
ontime7	10079.532895505	Sum of GTIs [s]
l2events	38528	Number of level 2 events



## 2 OBI

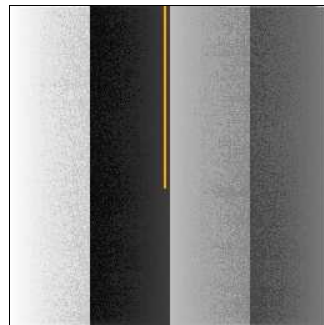
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10079.532895505	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime7	10079.532895505	Sum of GTIs [s]
date	2012-07-07T17:01:50	Date and time of file creation	l1events	87532	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

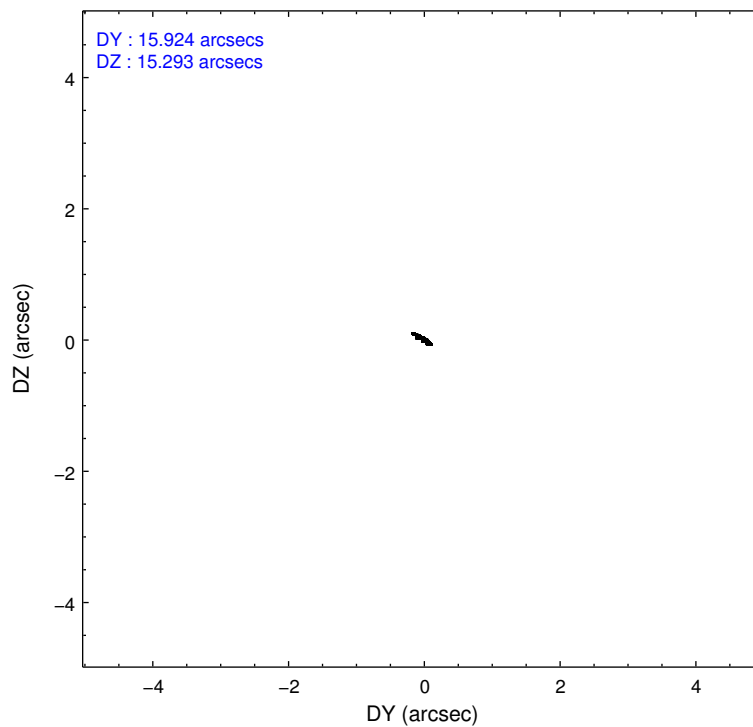
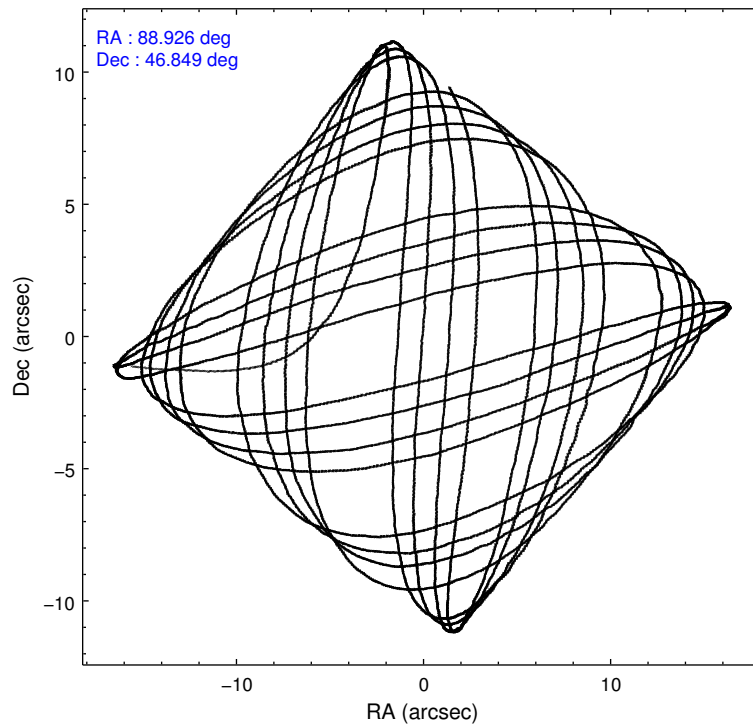
	<b>ccd 7</b>
level 1 events	87532
rejected events	47905
rejected %	54%

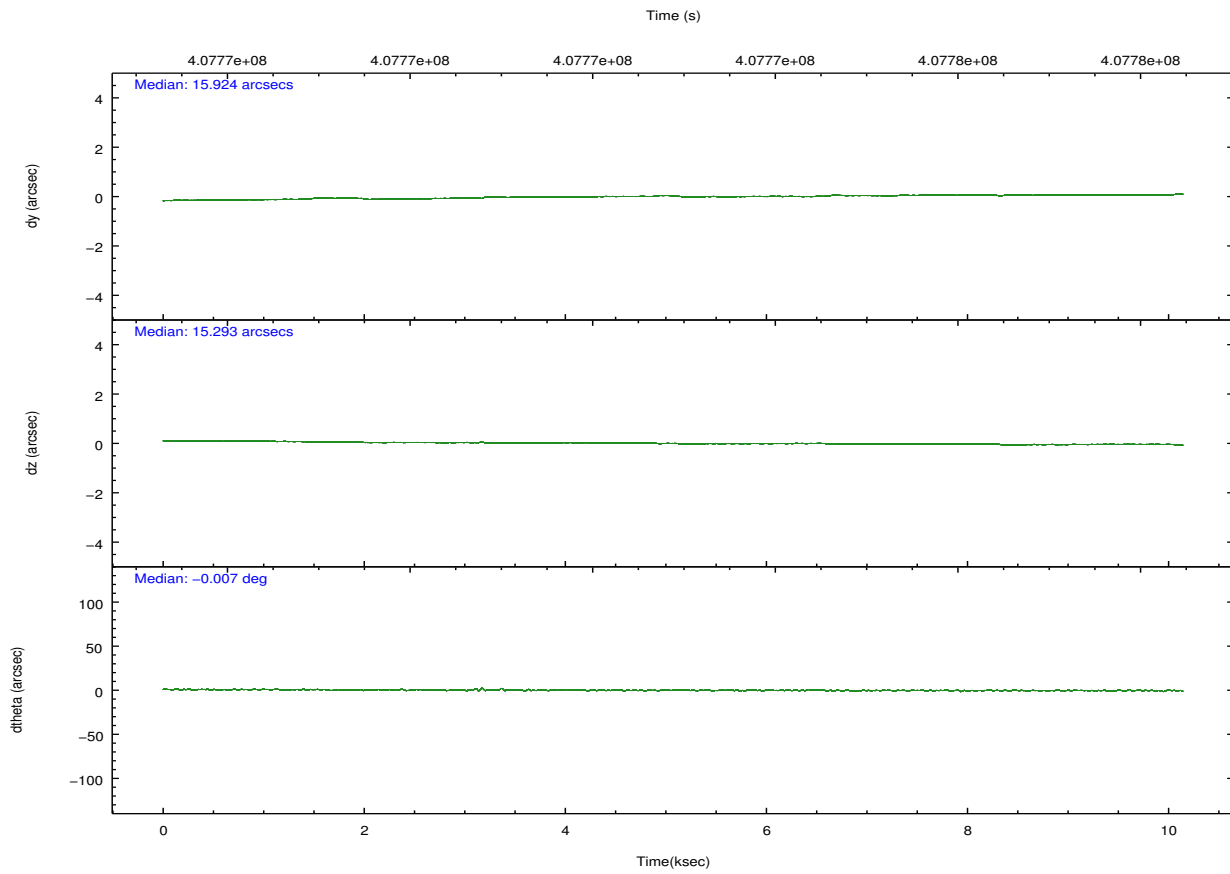
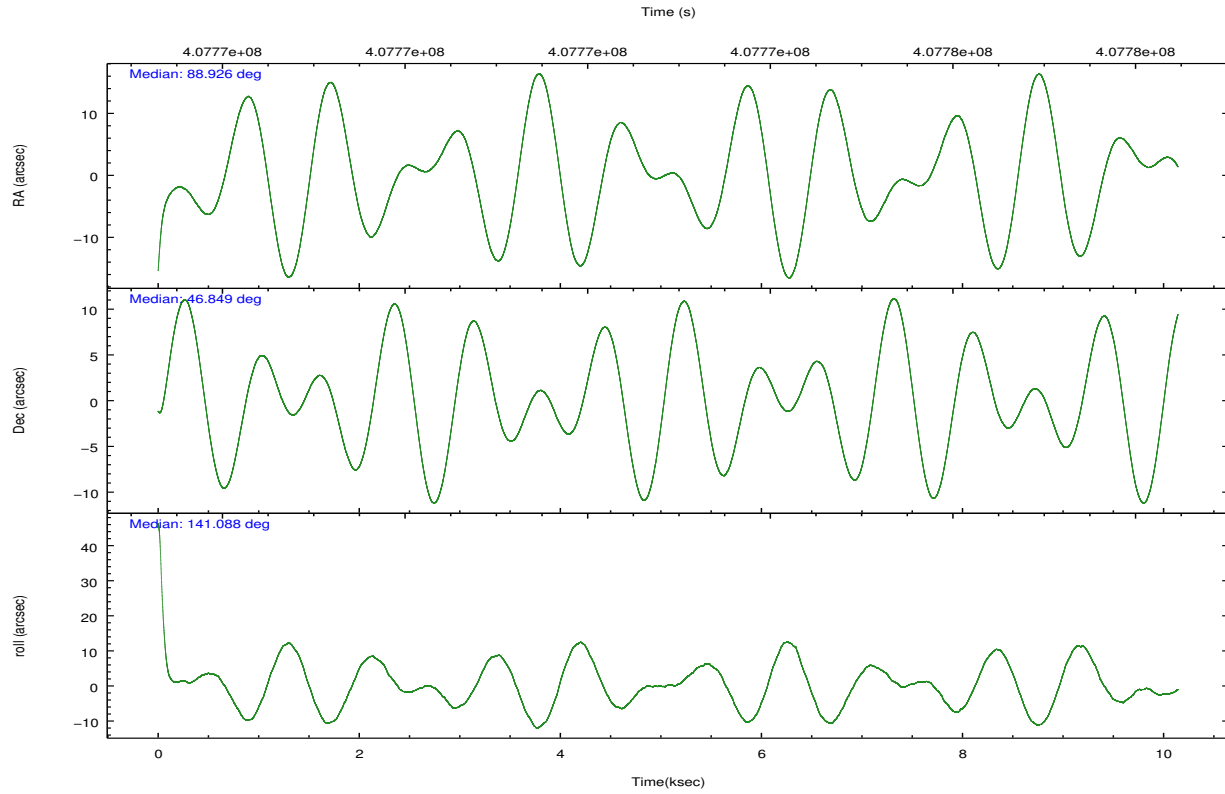
	<b>ccd 7</b>
grade 0 events	3542
	4%
grade 1 events	112
	0%
grade 2 events	8133
	9%
grade 3 events	3619
	4%
grade 4 events	3479
	3%
grade 5 events	9214
	10%
grade 6 events	20870
	23%
grade 7 events	38563
	44%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	88.965029	88.92544876455297	Subarray requested	NONE	NONE
[deg] Pointing Dec	46.844707	46.84859093445422	Alternating exposures requested	N	N
[deg] Pointing Roll	140.904376	141.0899301080196	[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)	407767951.184000	407766759.14562			
Observation start date	2010-12-03T12:51:25	2010-12-03T12:32:39			
[s] Observation end time (MET)	407777951.184000	407778859.78374			
Observation end date	2010-12-03T15:38:05	2010-12-03T15:54:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



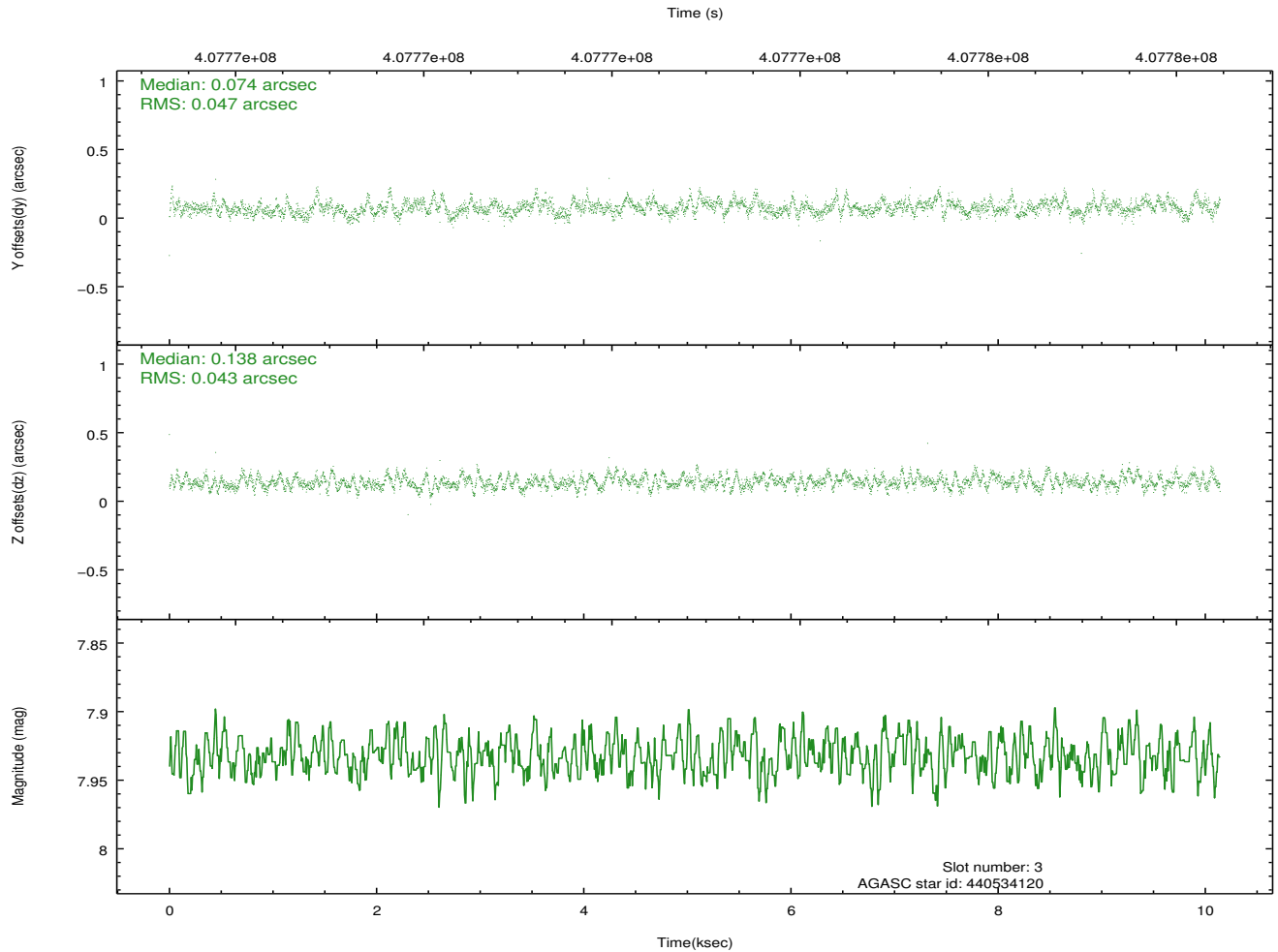
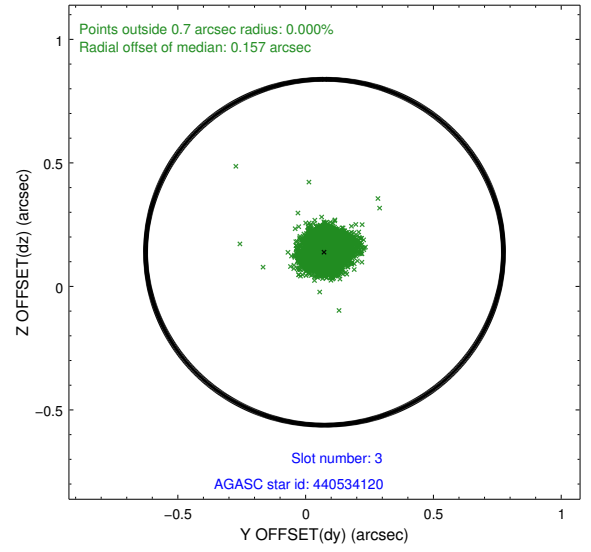
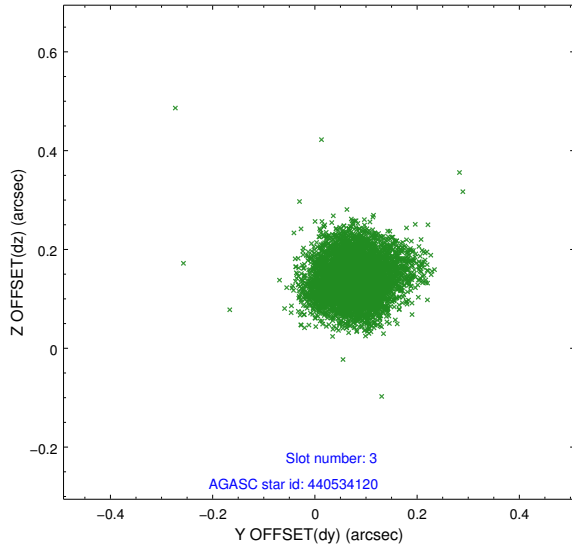


### Slot Statistics

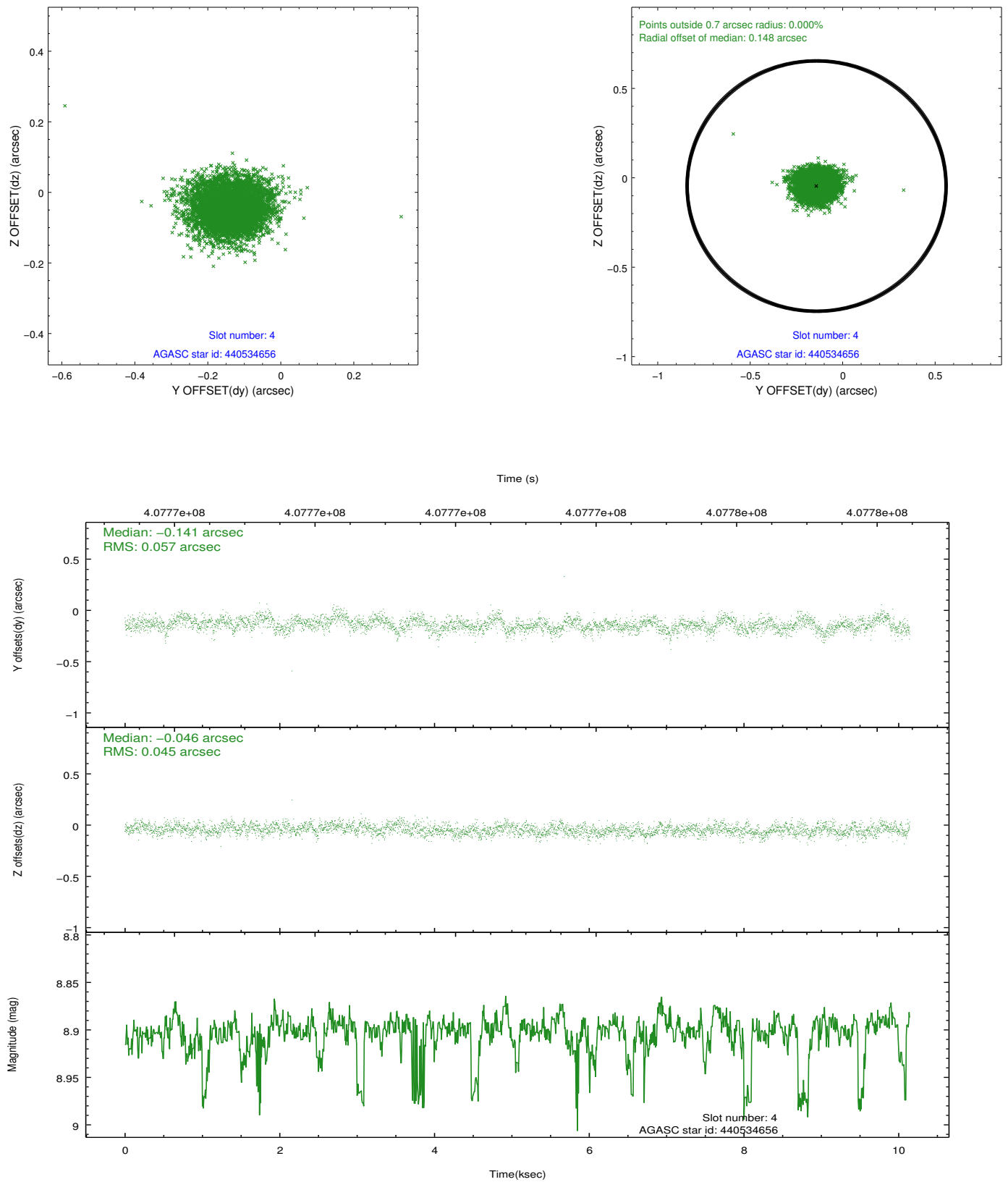
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.01	2474	0.055	-0.060	0.010	0.017	0.000000	0.000000	927.22	-1732.31
1	FID	ACIS-S-5	7.07	2474	-0.105	0.031	0.009	0.016	0.000000	0.000000	-1821.68	164.75
2	FID	ACIS-S-6	7.17	2474	0.029	0.041	0.010	0.016	0.000000	0.000000	392.14	809.35
3	GUIDE	440534120	7.93	4948	0.074	0.138	0.067	0.107	89.479732	46.706864	-1296.27	-419.19
4	GUIDE	440534656	8.90	4944	-0.141	-0.046	0.075	0.124	87.770350	46.844031	2295.23	1839.80
5	GUIDE	440535616	7.79	4946	-0.044	-0.126	0.054	0.087	89.124364	46.222883	-1719.00	1487.24
6	GUIDE	441061688	8.39	4947	0.154	0.176	0.078	0.125	89.834629	46.918443	-1484.72	-1562.97
7	GUIDE	441066560	8.91	4917	-0.046	-0.140	0.074	0.119	88.162058	47.114334	2144.15	480.81

## 2.4 Star Slots

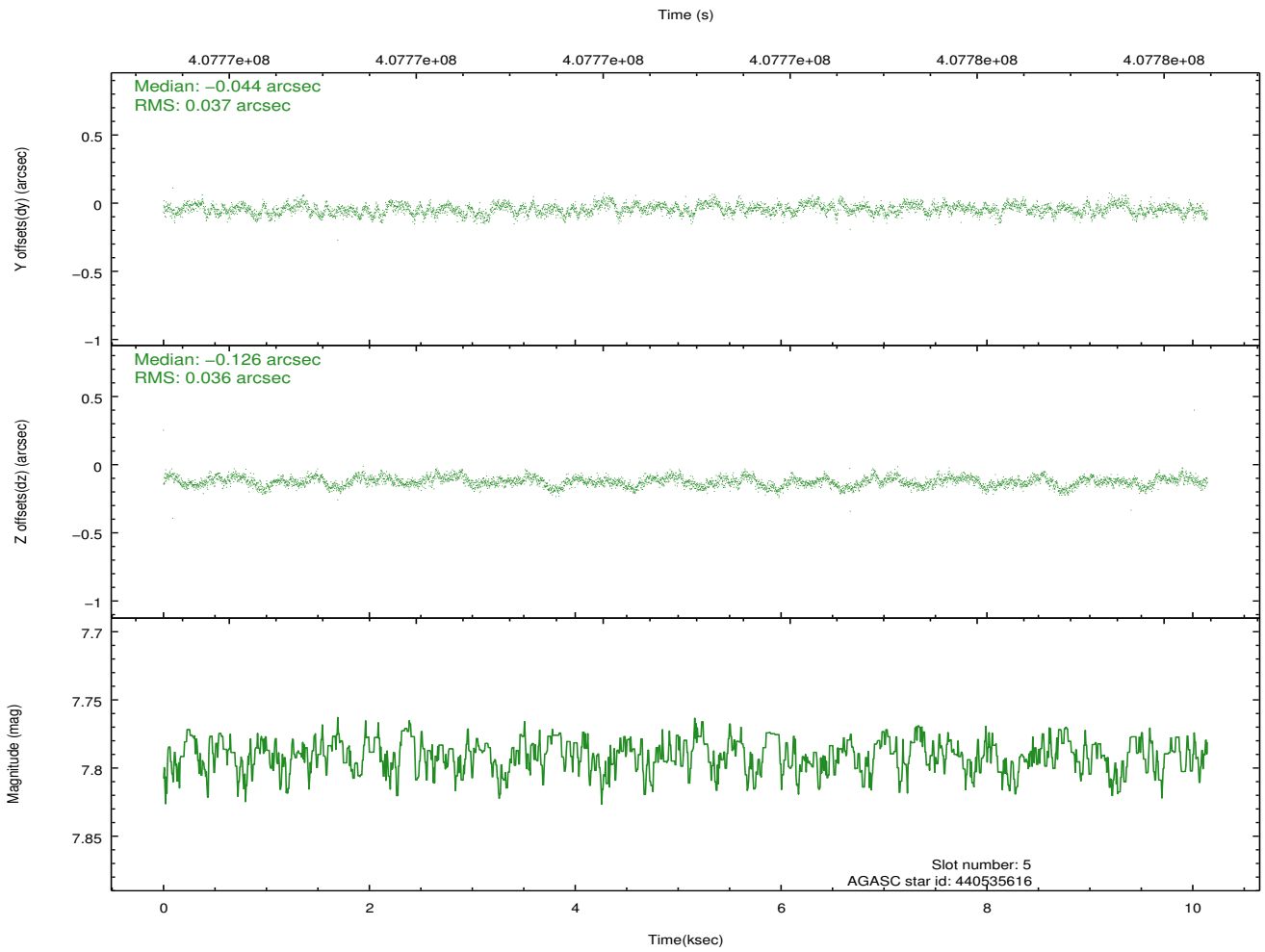
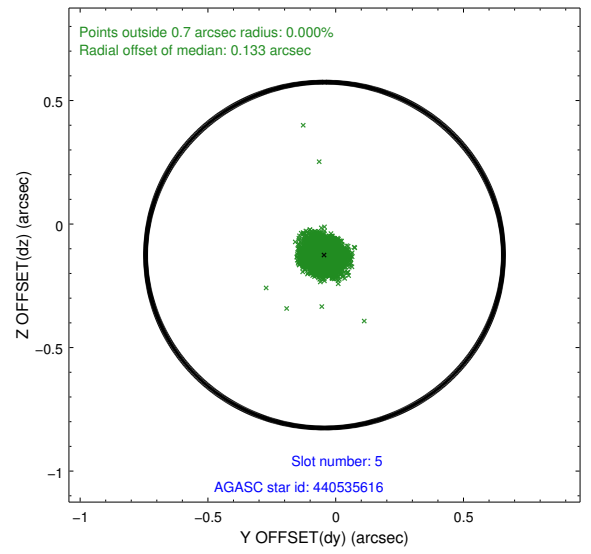
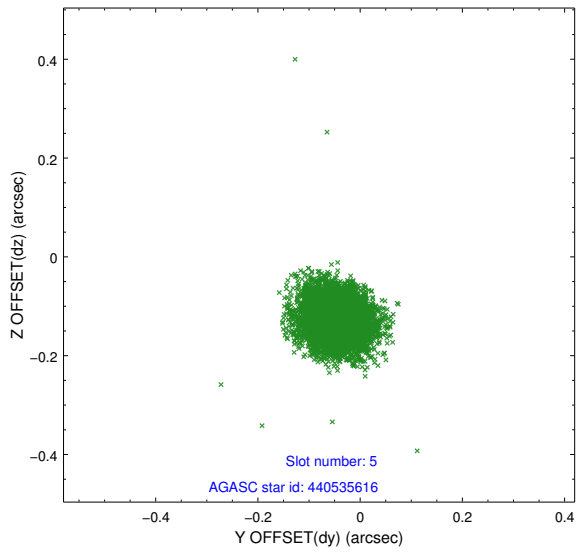
### 2.4.1 Slot 3



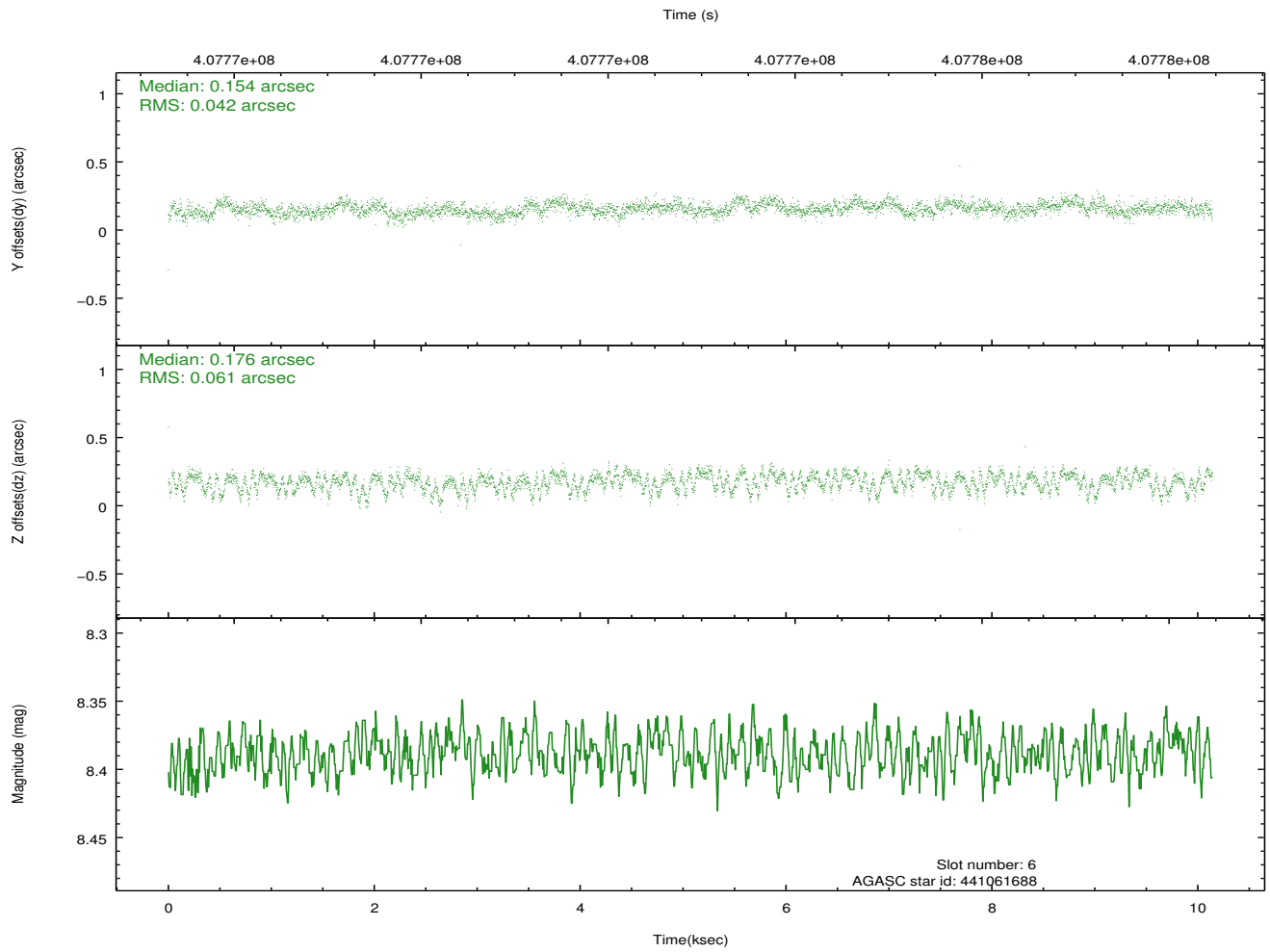
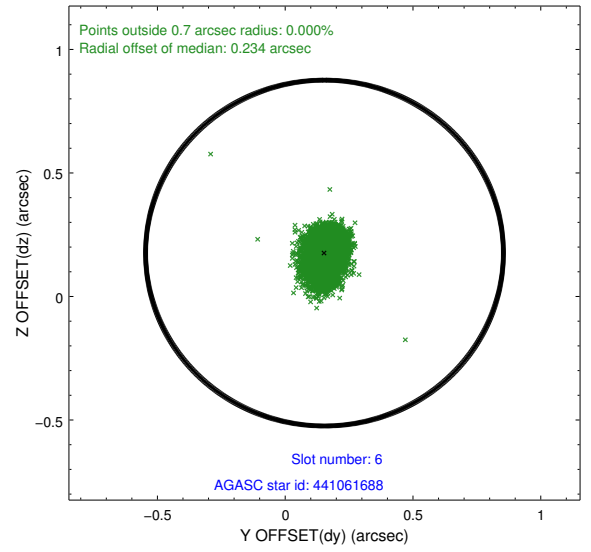
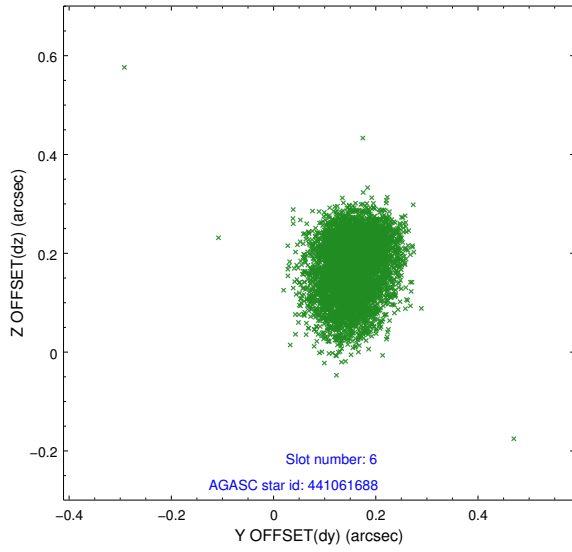
## 2.4.2 Slot 4



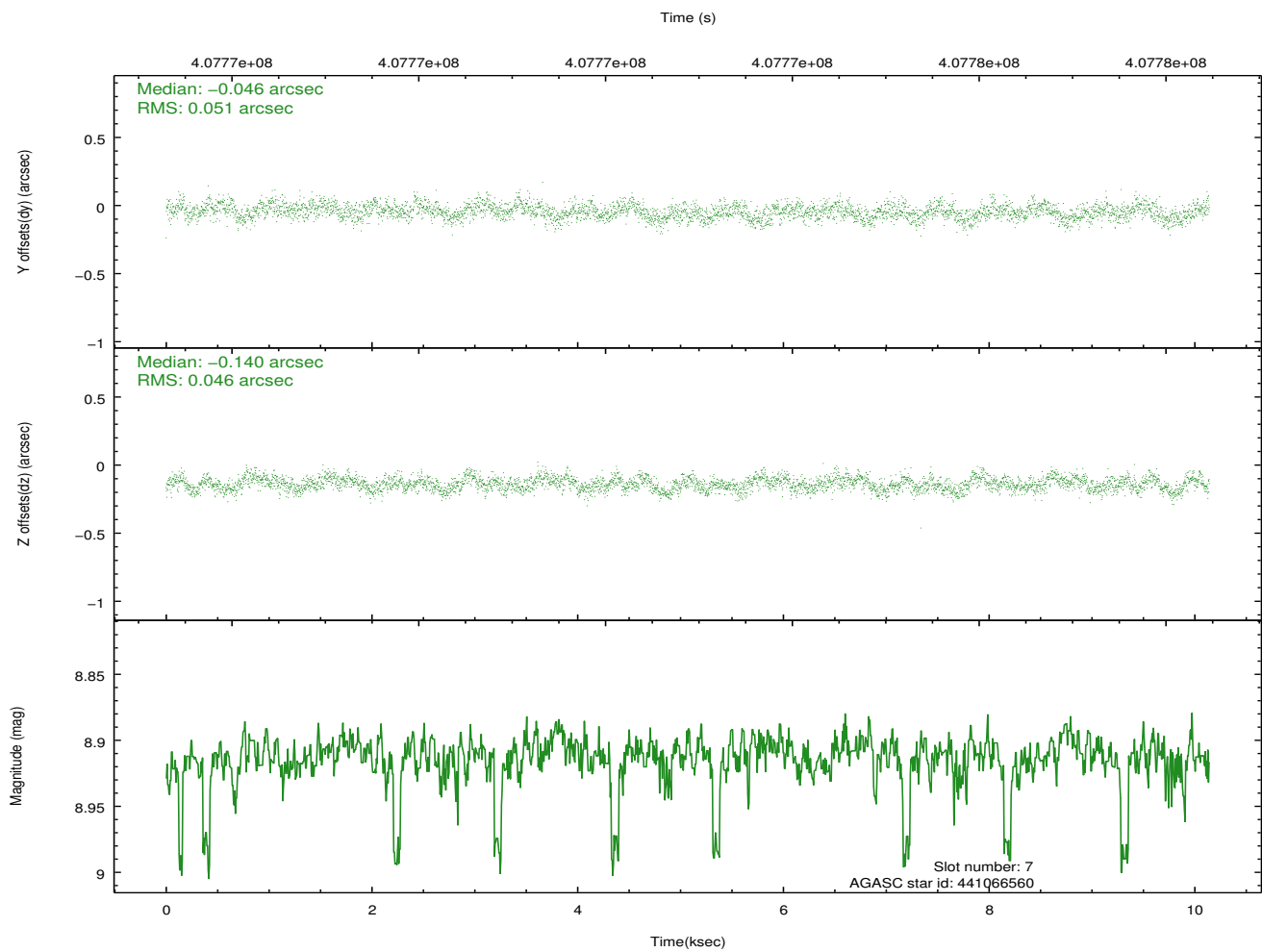
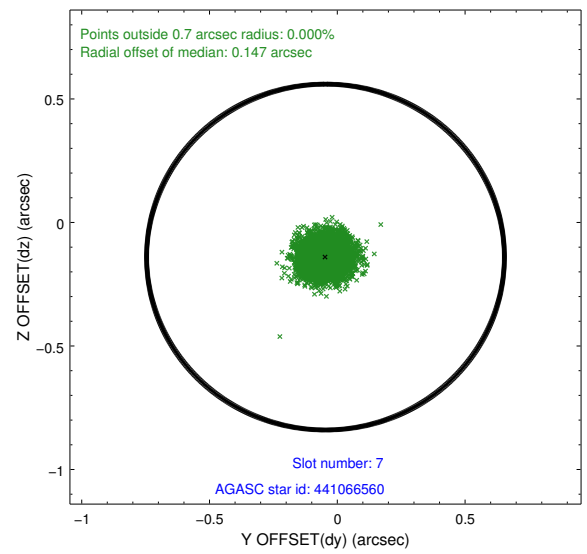
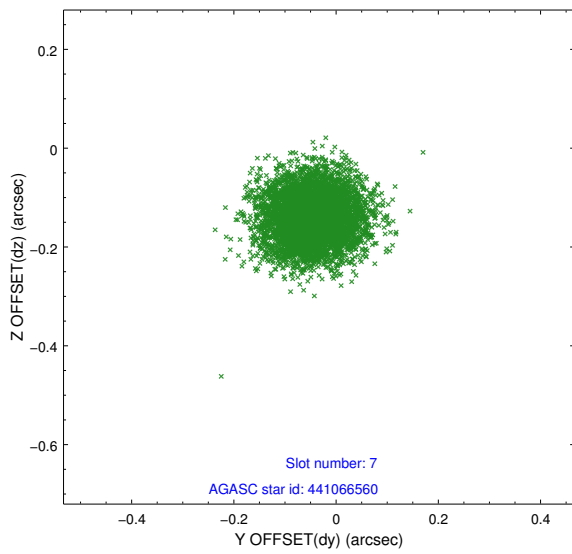
### 2.4.3 Slot 5



### 2.4.4 Slot 6

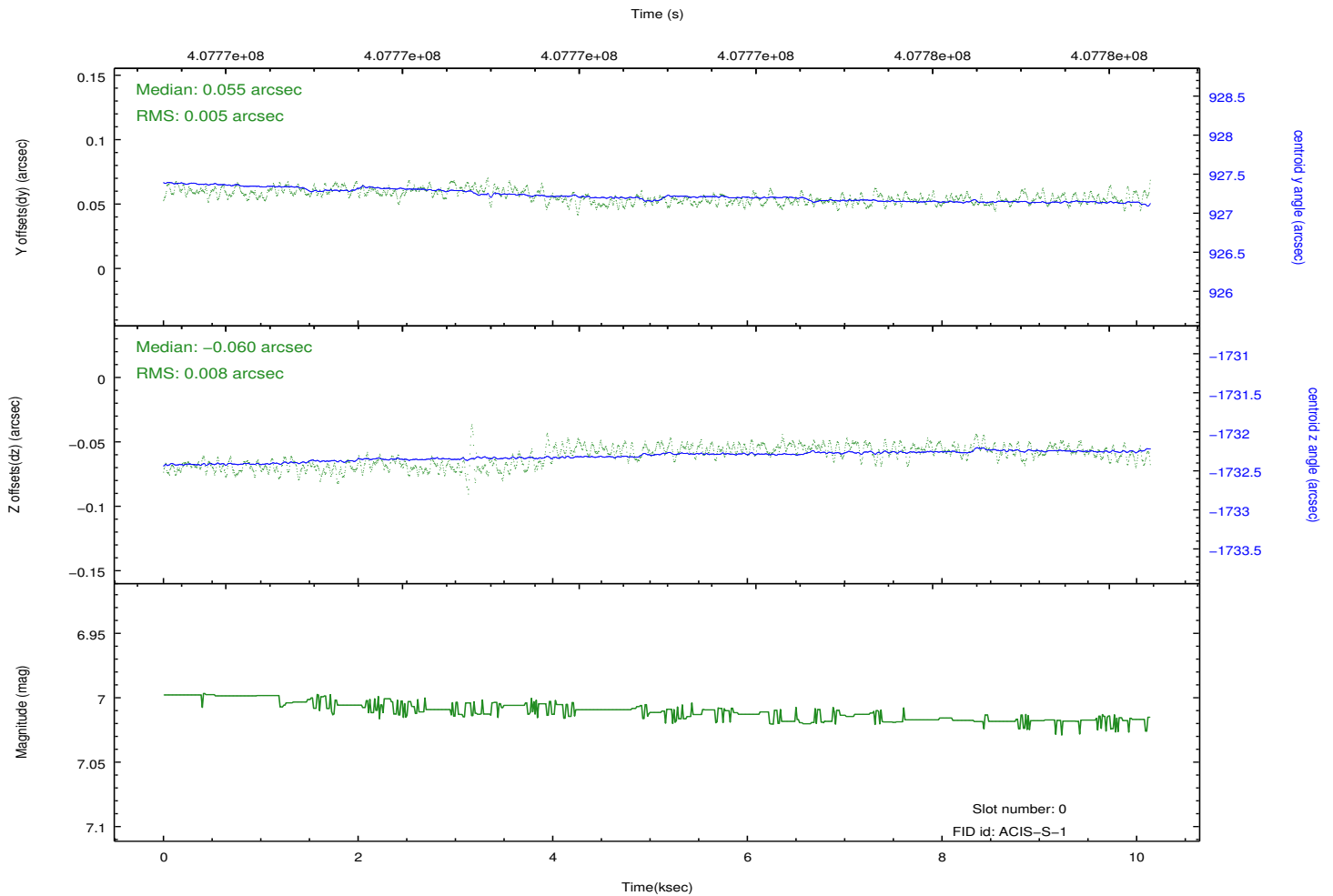
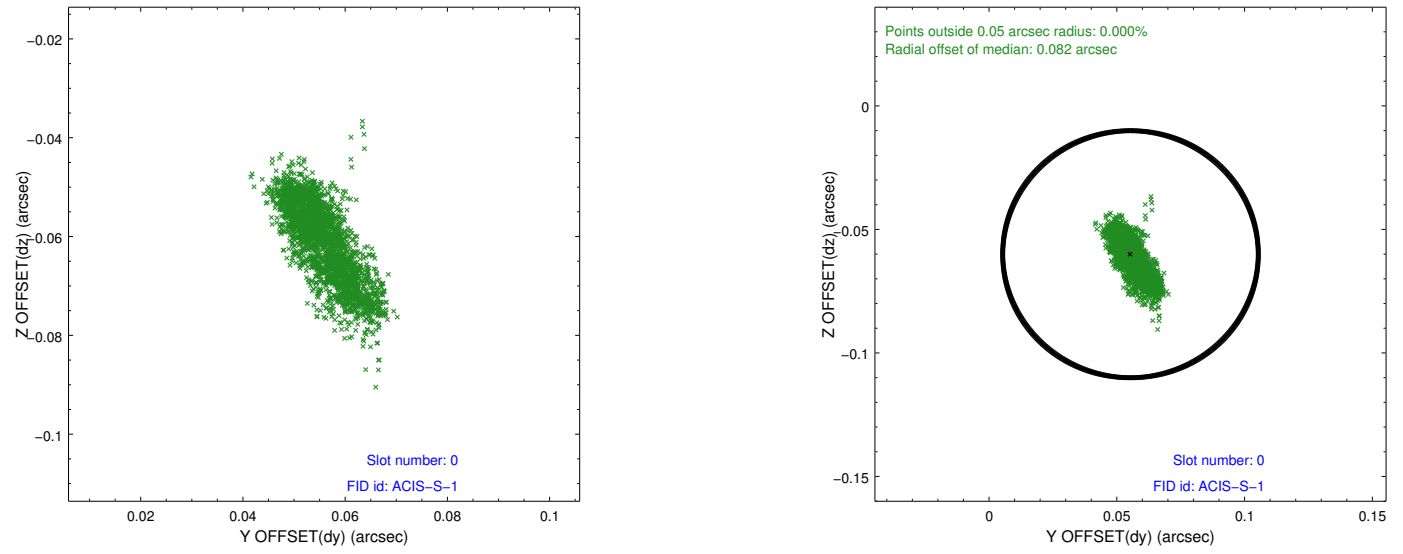


## 2.4.5 Slot 7

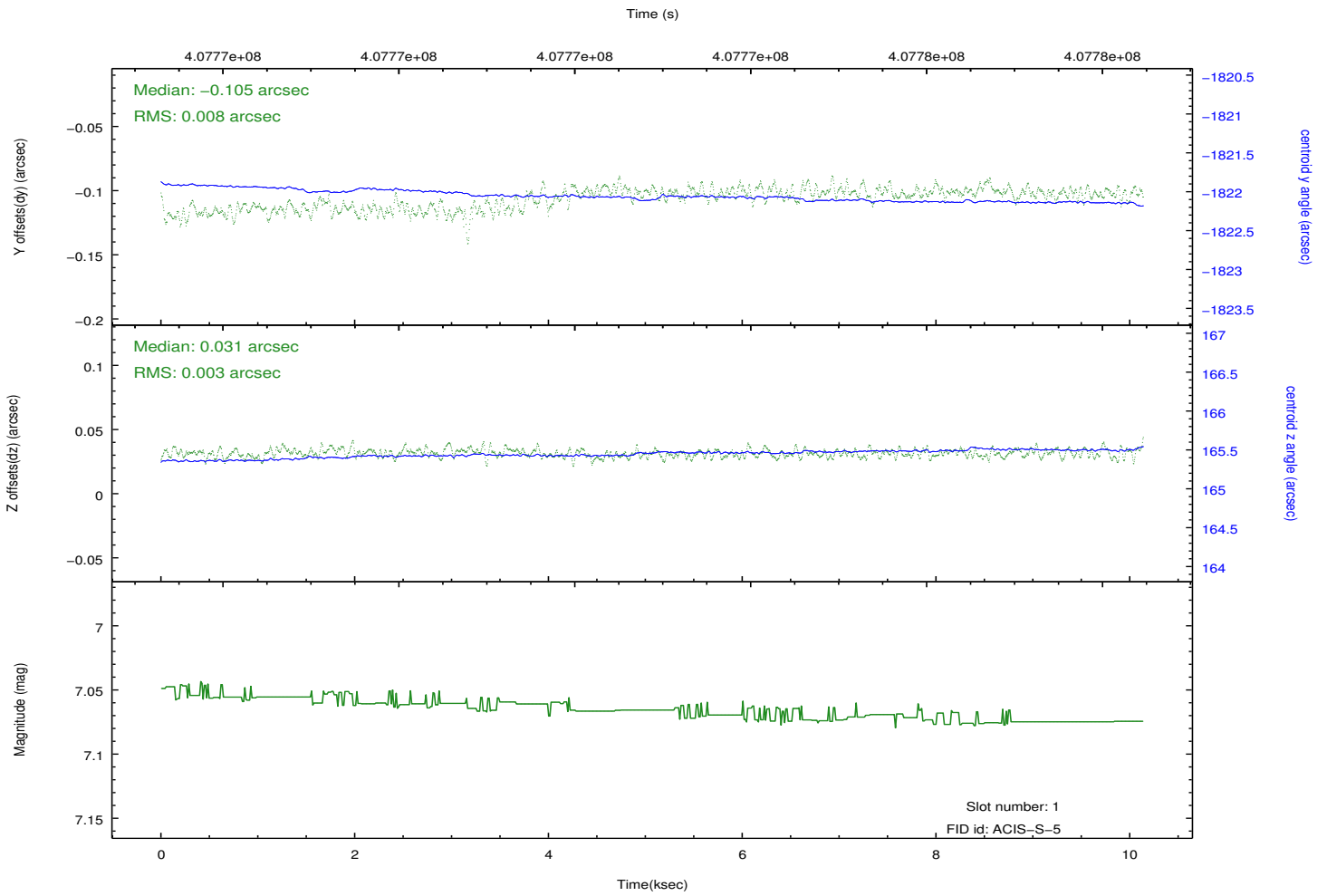
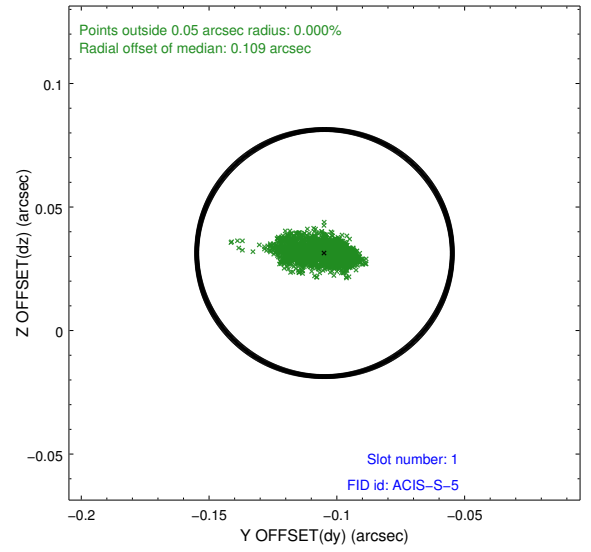
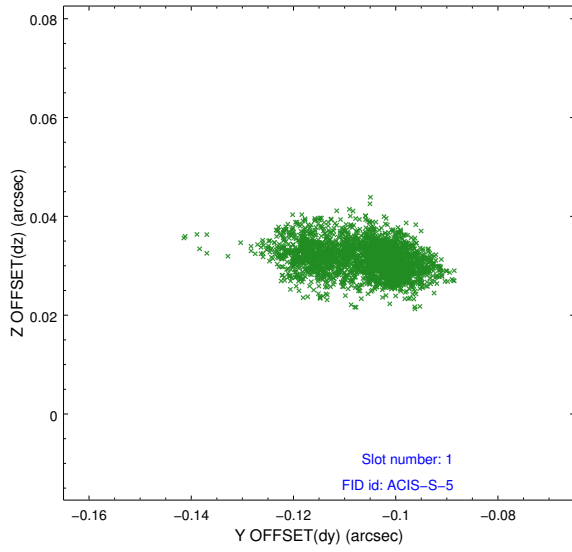


## 2.5 FID Slots

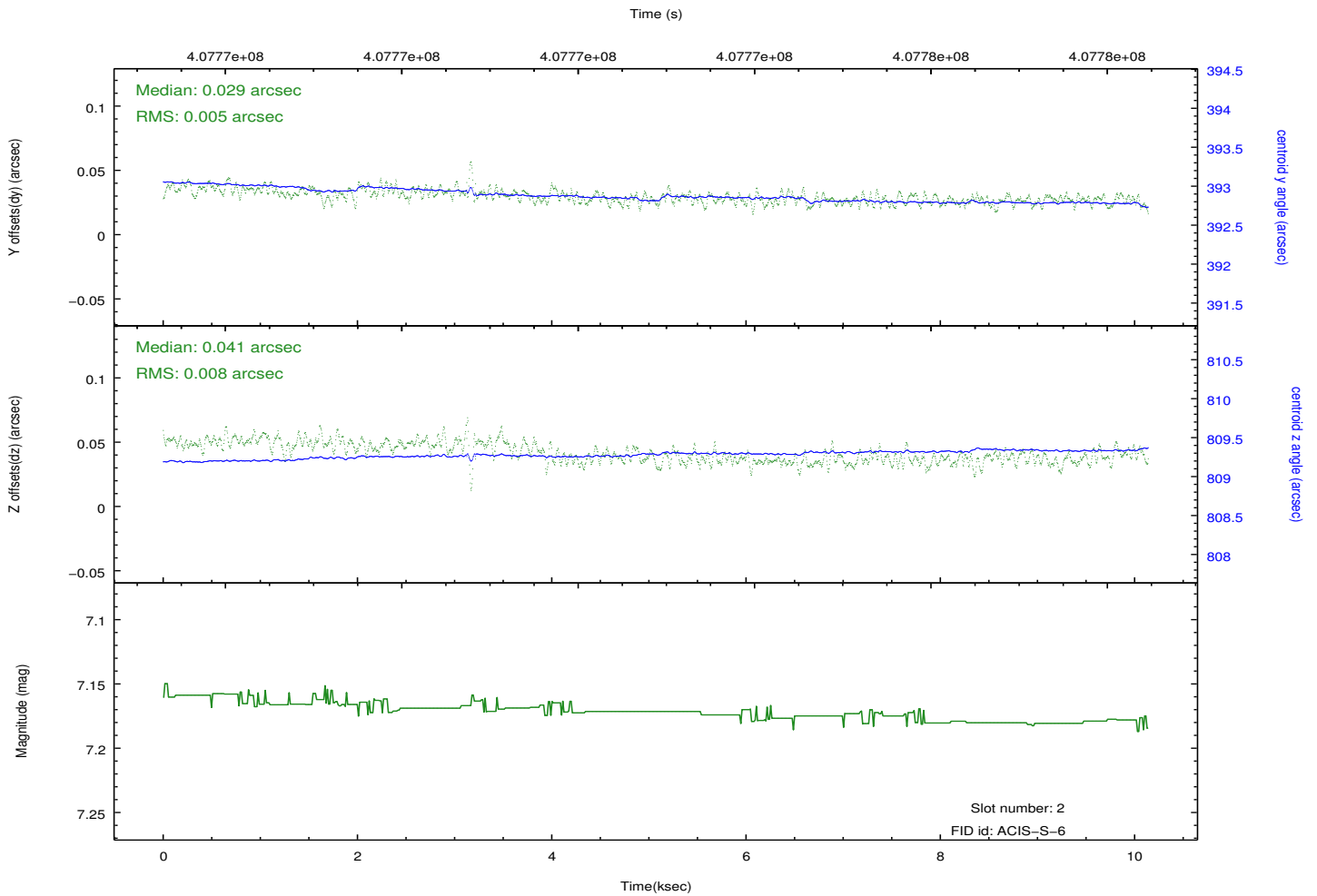
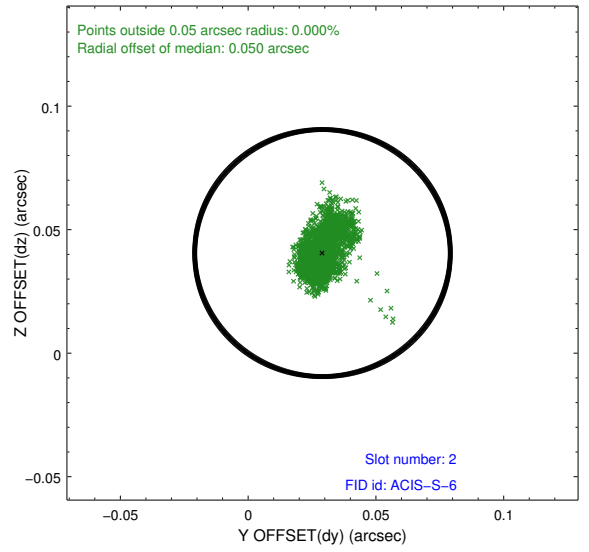
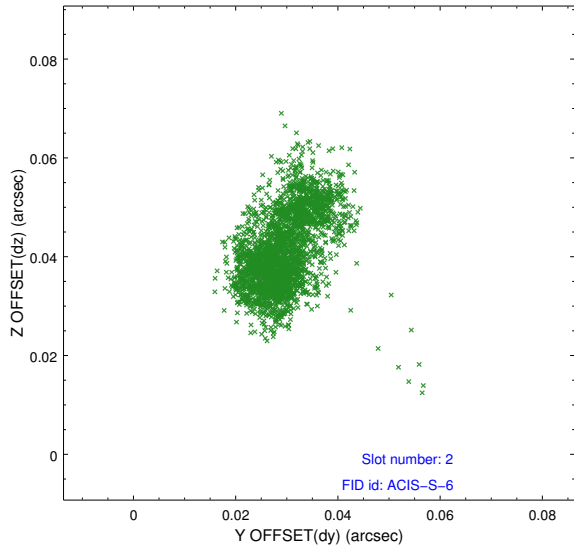
### 2.5.1 Slot 0



## 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)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.079532889605

## A.2 Comments