

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 5649 - L2 Version 2  
Chandra X-Ray Center

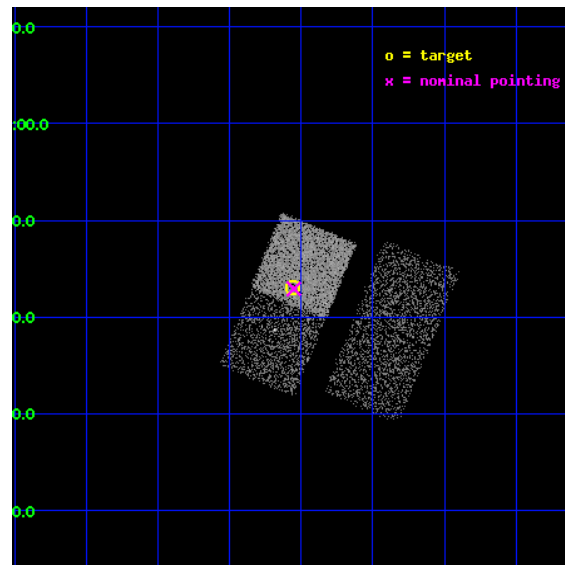
L2 Processing Date : Mar 24 2012

## 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

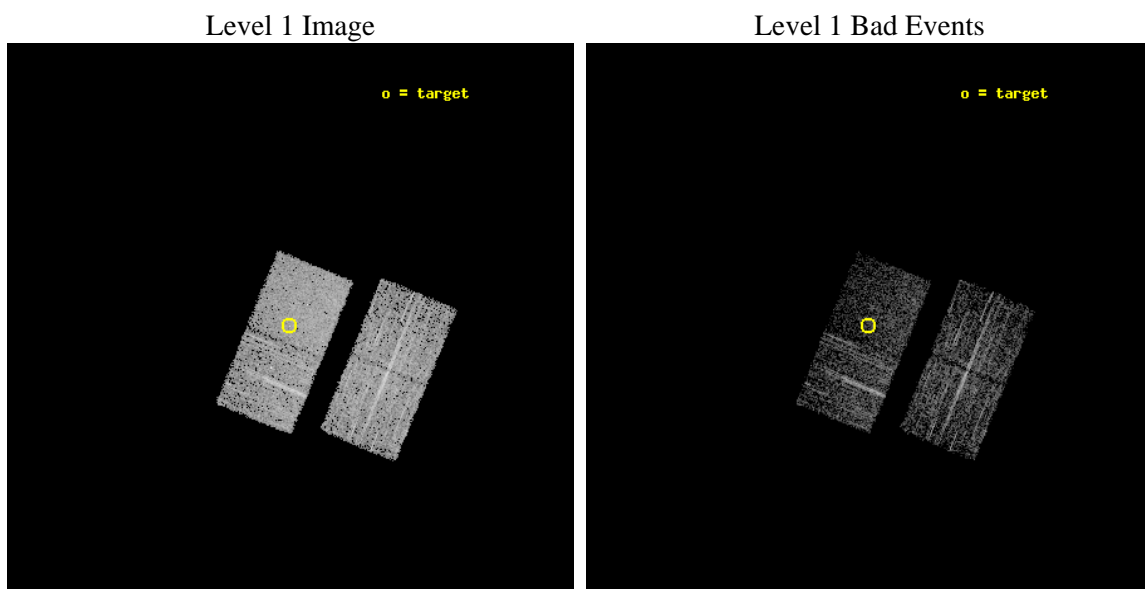
seq_num	701072	Sequence number
obs_id	5649	Observation id
title	The Spectral Energy Distribution and Fe II Emission in Intermediate-Redshift Narrow-line Seyfert 1 Galaxies	Proposal title
observer	Dr. Karen Leighly	Principal investigator
object	SDSS J002133.27+004301.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	5.38875	Observer's specified target RA [deg]
dec_targ	0.716972	Observer's specified target Dec [deg]
ra_nom	5.387665630875	Nominal RA [deg]
dec_nom	0.71527597639945	Nominal Dec [deg]
roll_nom	292.46371709576	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2783.7999946177	Sum of GTIs [s]
livetime	2747.4275982843	Livetime [s]
ontime2	2783.7999946177	Sum of GTIs [s]
ontime3	2783.7999946177	Sum of GTIs [s]
ontime6	2774.3771237135	Sum of GTIs [s]
ontime7	2783.7999946177	Sum of GTIs [s]
l2events	14538	Number of level 2 events



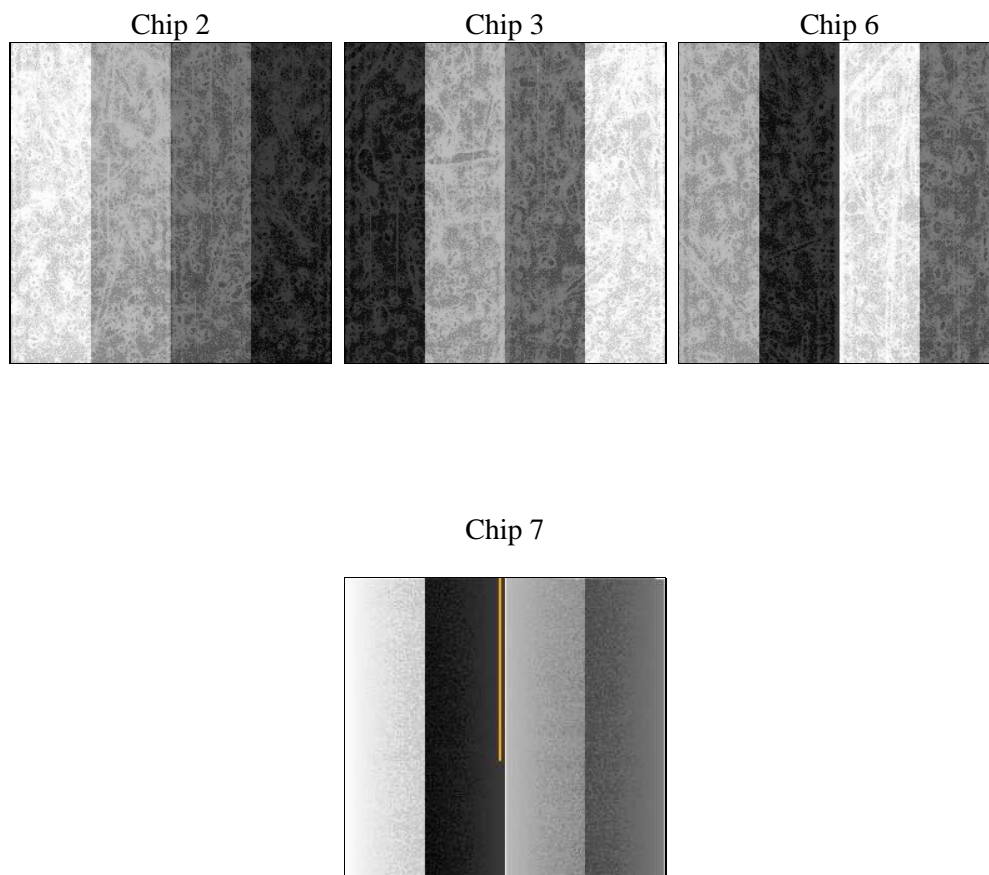
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	2783.7999946177	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	2783.7999946177	Sum of GTIs [s]
date	2012-03-24T23:24:20	Date and time of file creation	ontime3	2783.7999946177	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2774.3771237135	Sum of GTIs [s]
			ontime7	2783.7999946177	Sum of GTIs [s]
			l1events	98551	Number of level 1 events

### 2.1.4 Events

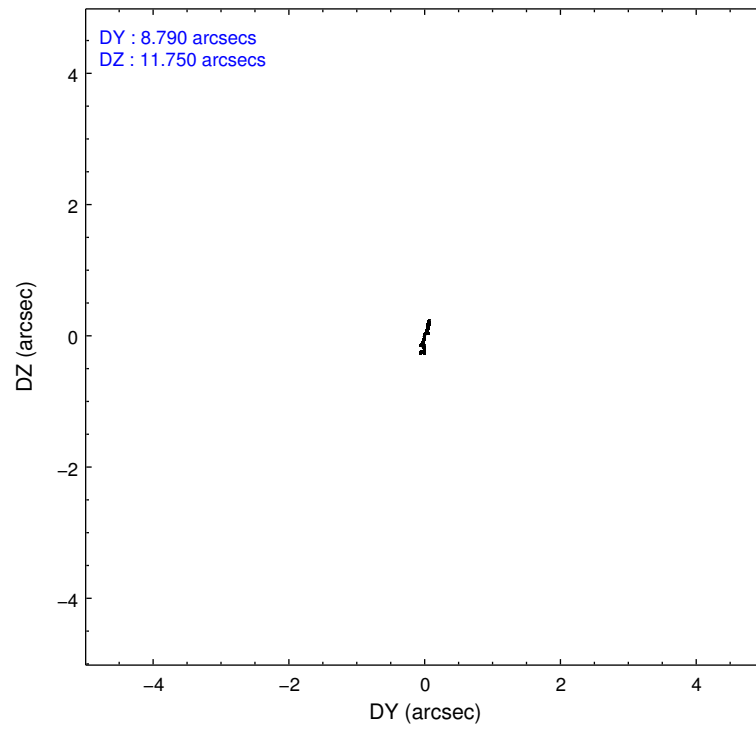
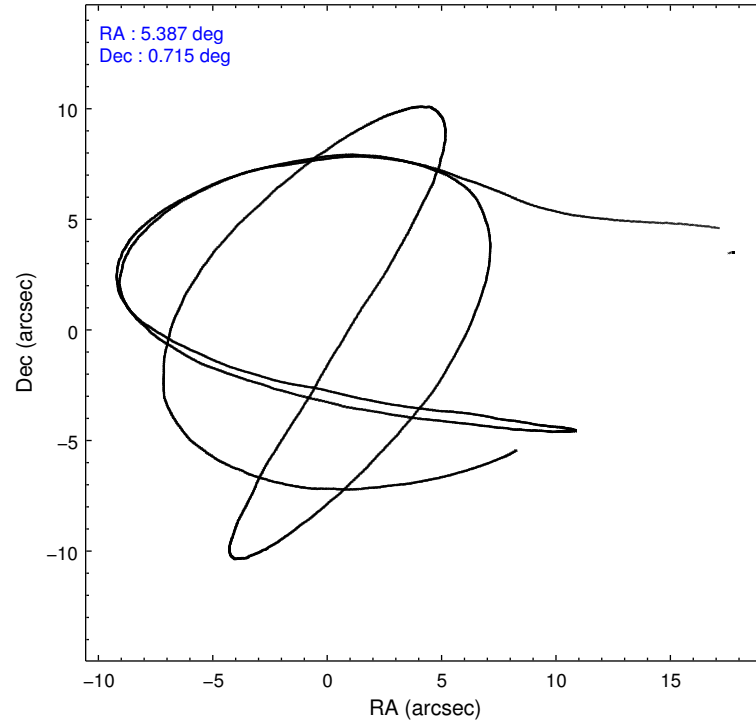
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	25428	22242	24231	26650
rejected events	23519	20454	21975	16878
rejected %	92%	91%	90%	63%

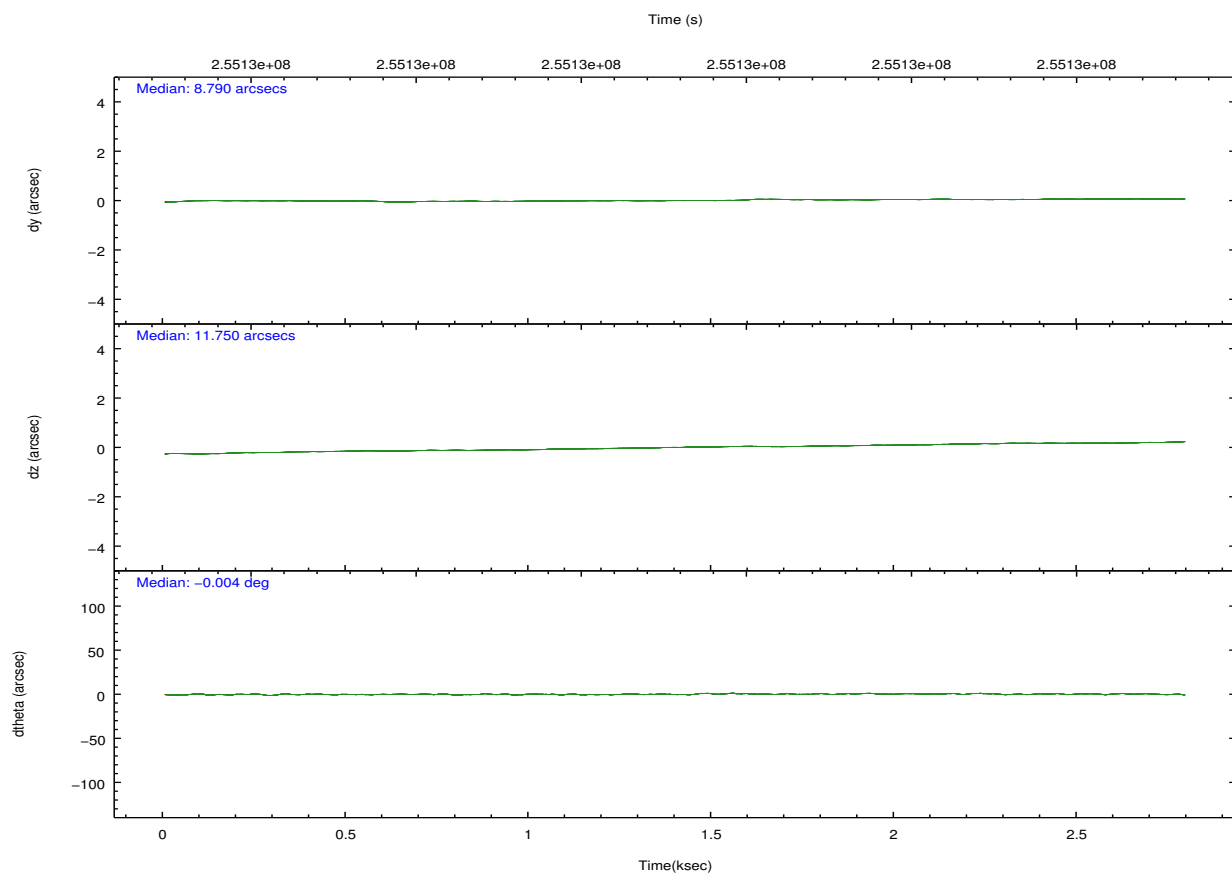
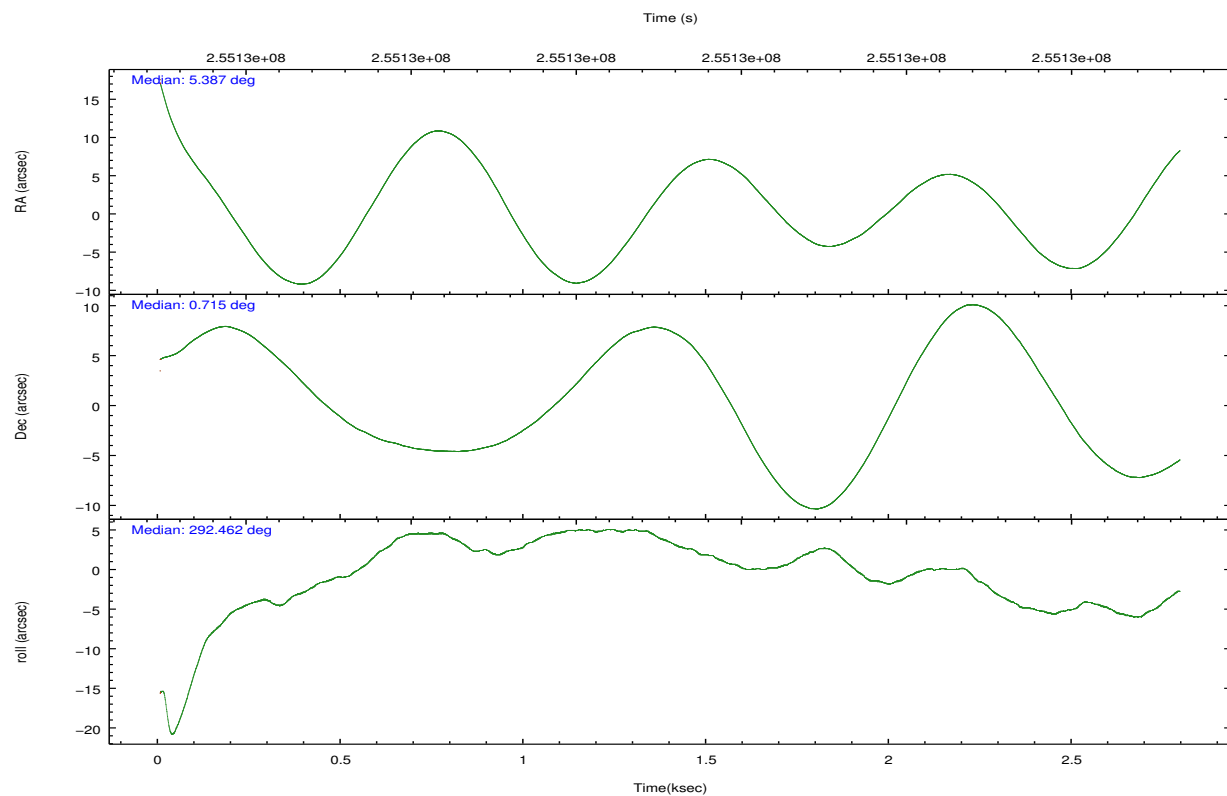
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	843	792	1092	1075
	3%	3%	4%	4%
grade 1 events	13	20	12	22
	0%	0%	0%	0%
grade 2 events	583	490	546	2491
	2%	2%	2%	9%
grade 3 events	255	269	270	1132
	1%	1%	1%	4%
grade 4 events	248	256	318	1121
	0%	1%	1%	4%
grade 5 events	803	940	1000	2954
	3%	4%	4%	11%
grade 6 events	408	444	529	6385
	1%	1%	2%	23%
grade 7 events	22275	19031	20464	11470
	87%	85%	84%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	5.365861	5.387665630875006	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.731477	0.7152759763994485	Alternating exposures requested	N	N
[deg] Pointing Roll	292.307394	292.463717095756	[s] Primary exposure time	0.000000	3.1
[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)	255130582.184000	255129297.15214			
Observation start date	2006-01-31T21:35:17	2006-01-31T21:14:57			
[s] Observation end time (MET)	255133182.184000	255134184.86487			
Observation end date	2006-01-31T22:18:37	2006-01-31T22:36:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect





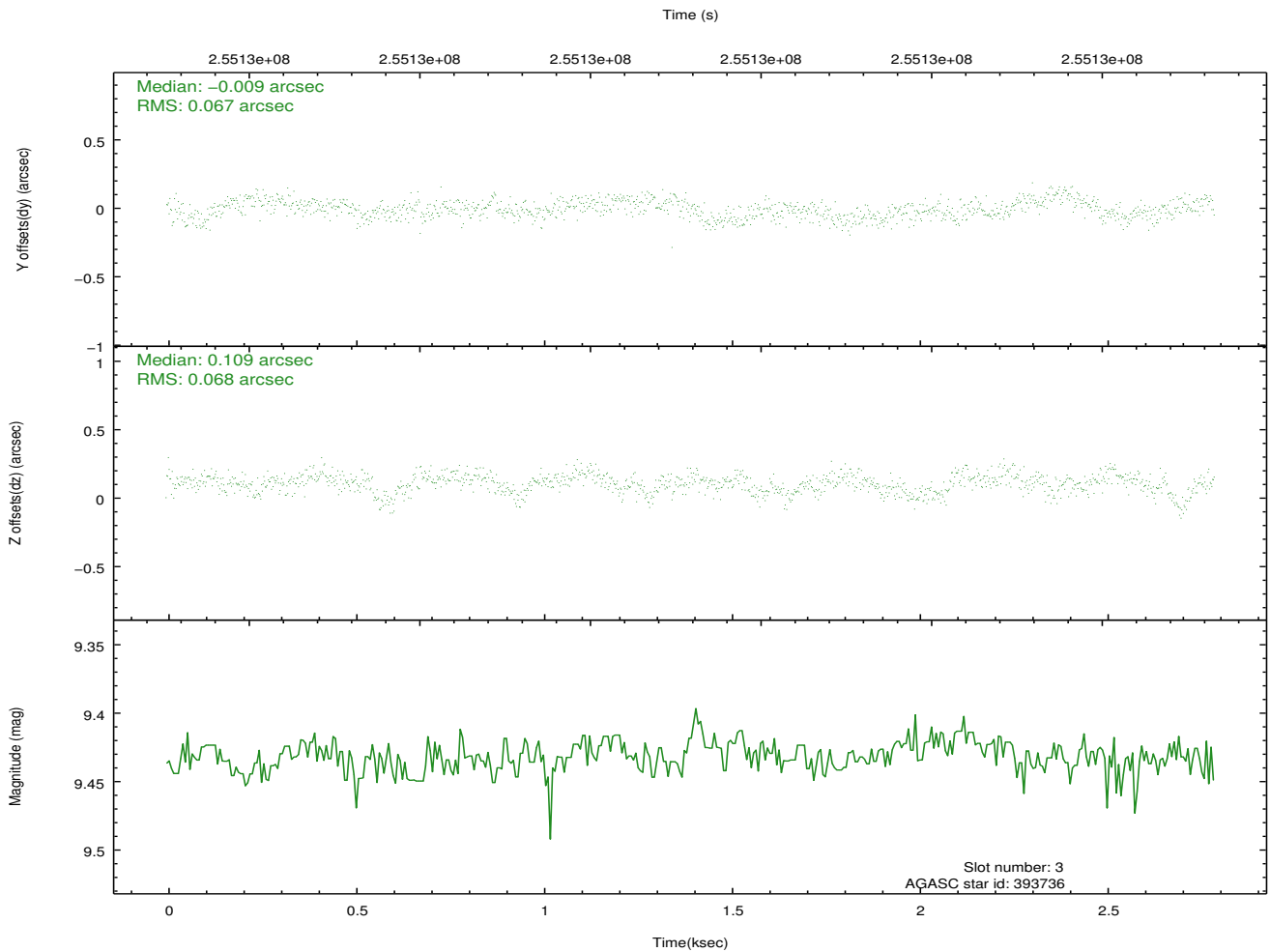
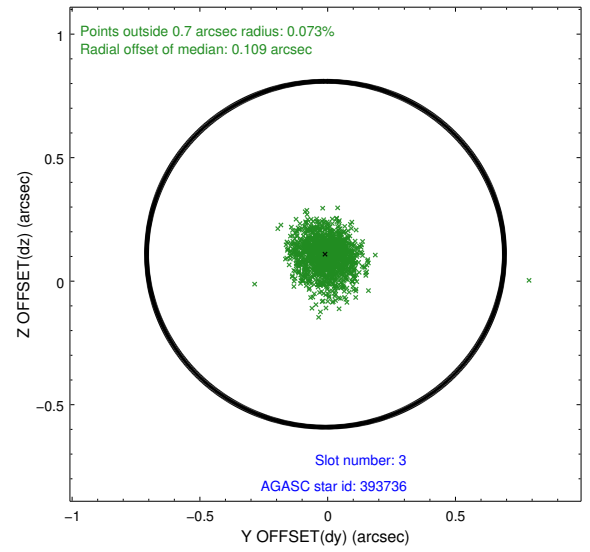
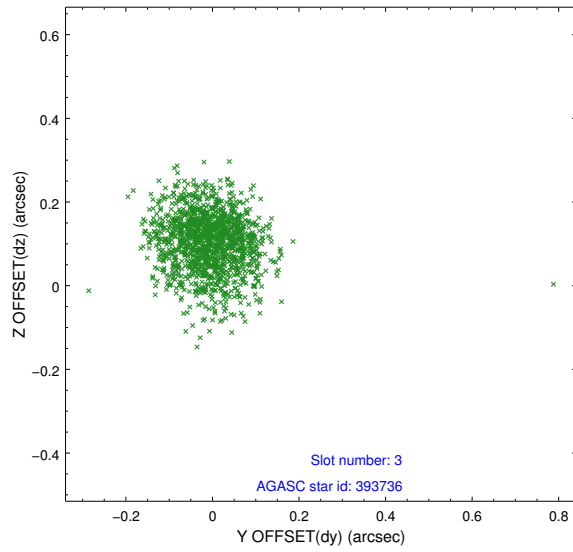
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	681	-0.061	-0.041	0.005	0.010	0.000000	0.000000	-761.67	-1733.01
1	FID	ACIS-S-4	7.20	681	0.073	0.023	0.006	0.011	0.000000	0.000000	2150.70	173.13
2	FID	ACIS-S-6	7.35	681	-0.039	0.025	0.007	0.012	0.000000	0.000000	403.30	813.16
3	GUIDE	393736	9.43	1362	-0.009	0.109	0.100	0.157	5.451317	0.917193	-500.80	538.59
4	GUIDE	396608	9.18	1355	-0.249	0.063	0.080	0.131	5.241637	1.191792	-1702.18	216.04
5	GUIDE	397288	9.72	1362	-0.114	0.066	0.207	0.321	5.004254	0.991266	-1359.77	-848.87
6	GUIDE	399432	9.82	1358	-0.102	-0.037	0.144	0.231	5.118216	0.519666	367.17	-1114.40
7	GUIDE	399632	9.72	1361	0.440	-0.200	0.168	0.262	5.120577	0.124168	1689.19	-1647.67

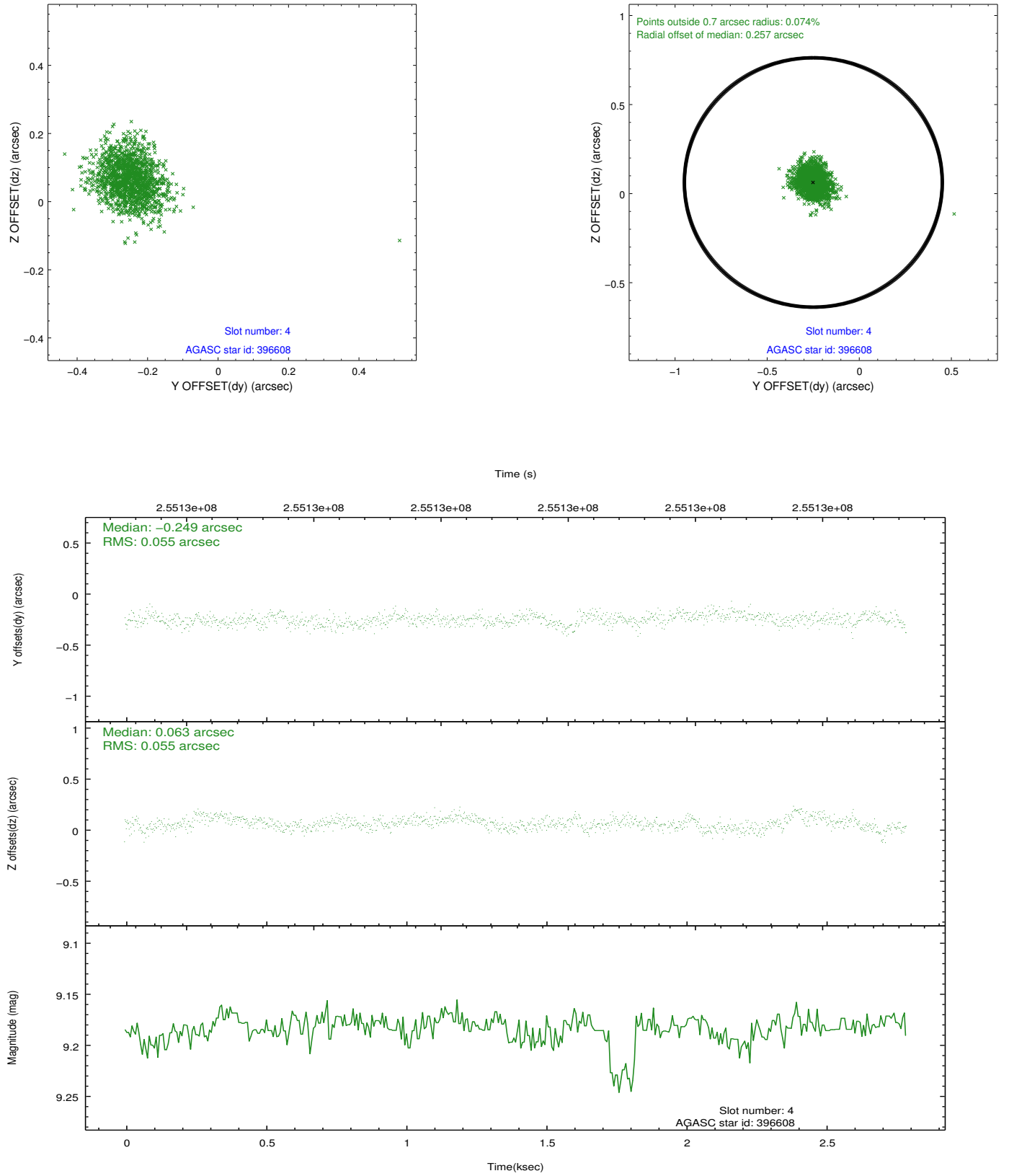


## 2.4 Star Slots

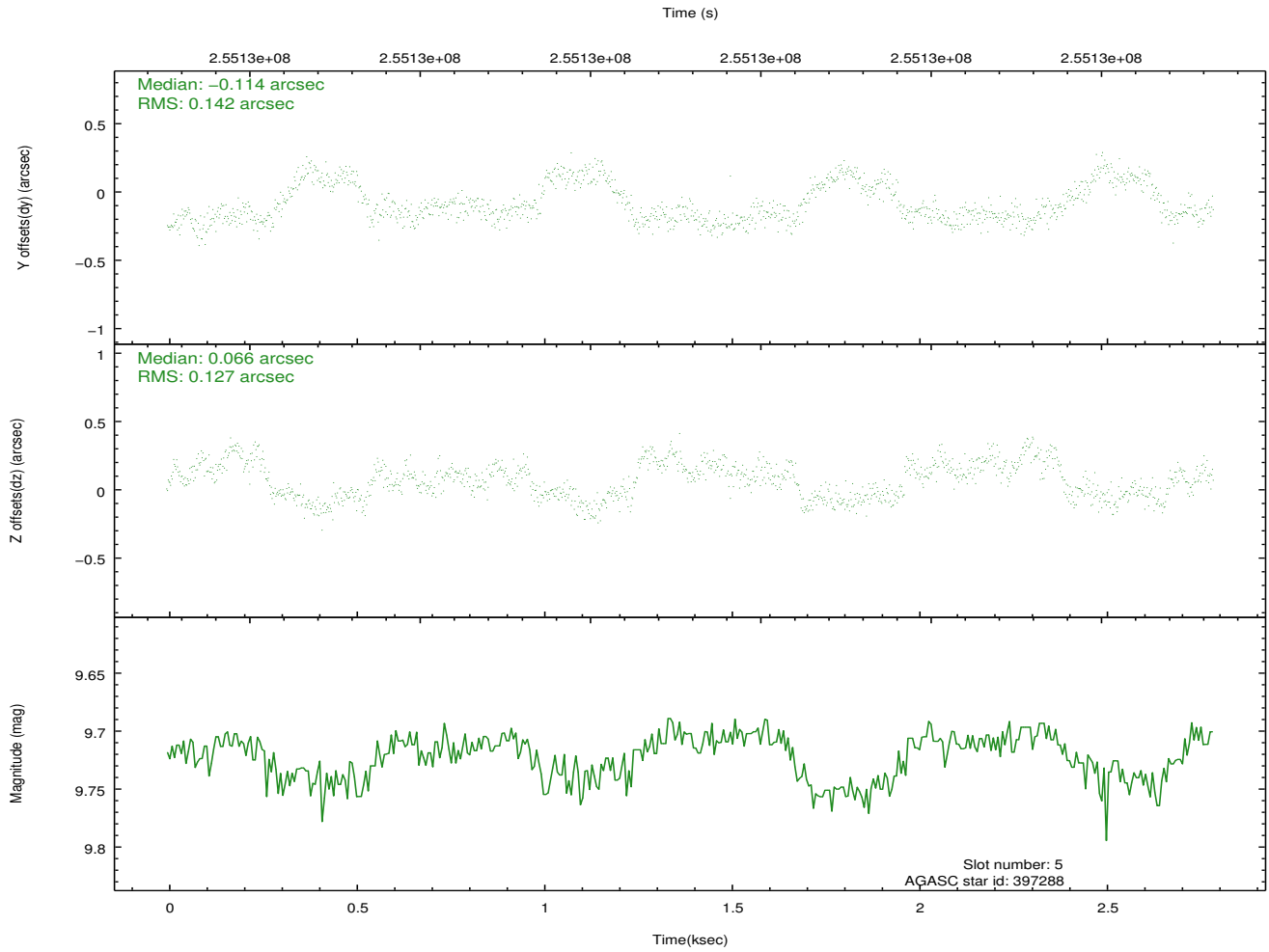
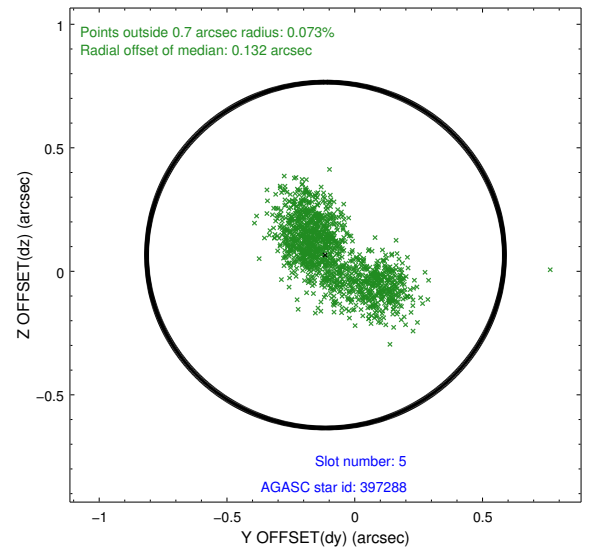
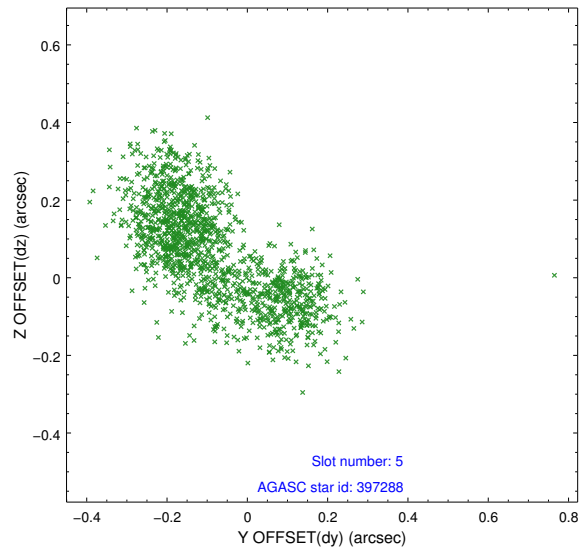
### 2.4.1 Slot 3



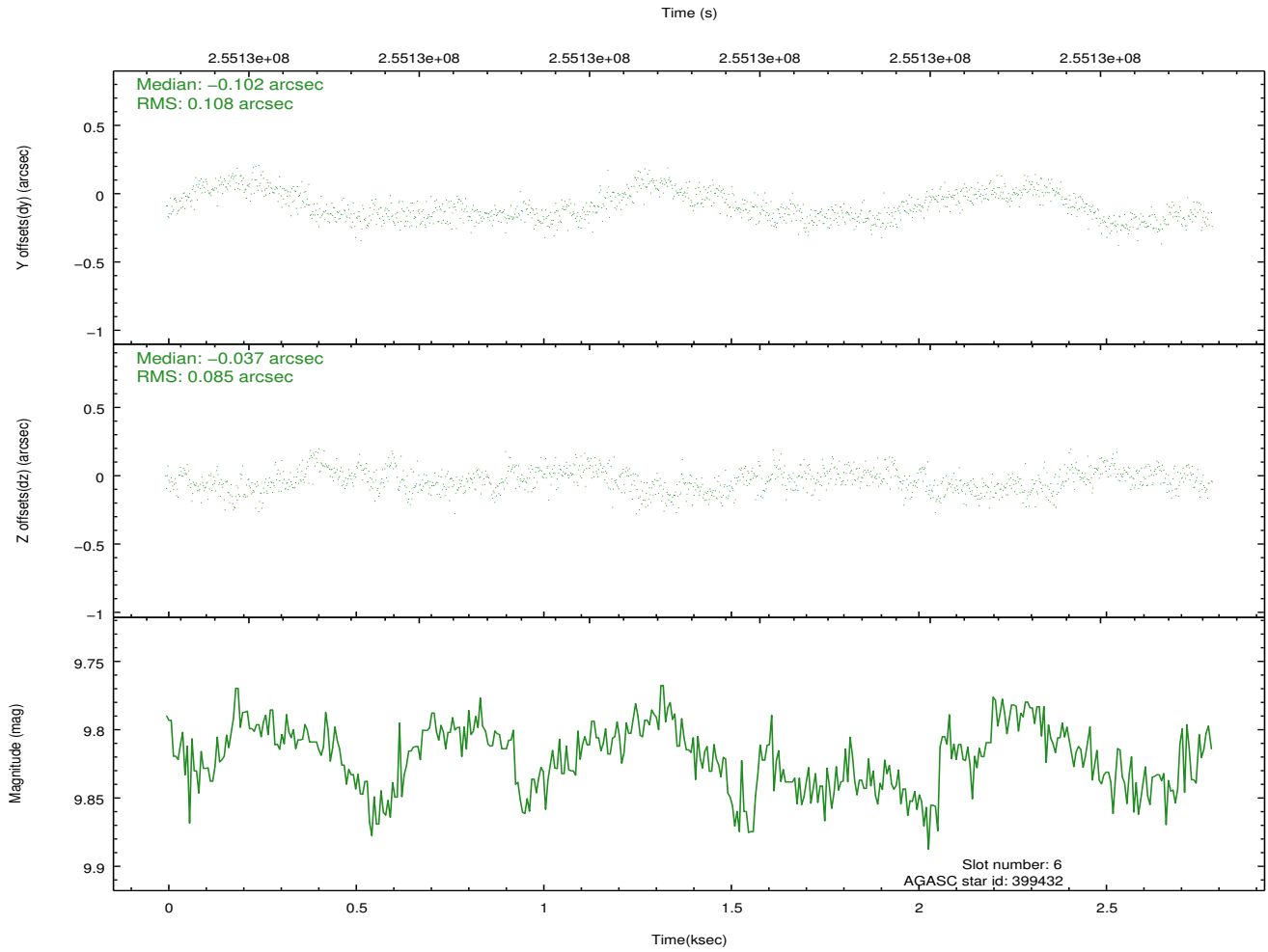
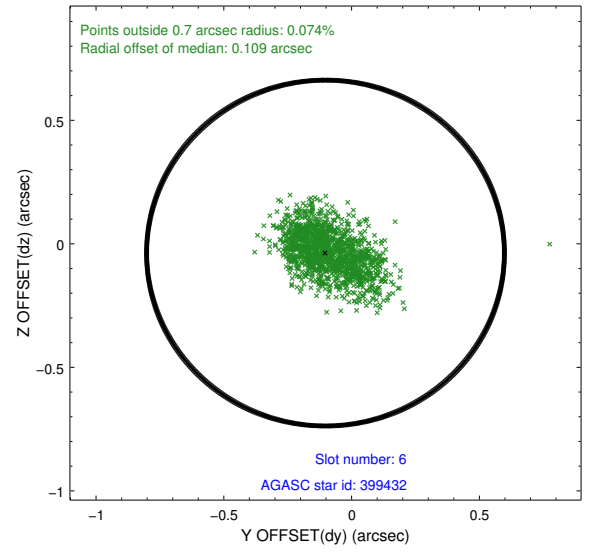
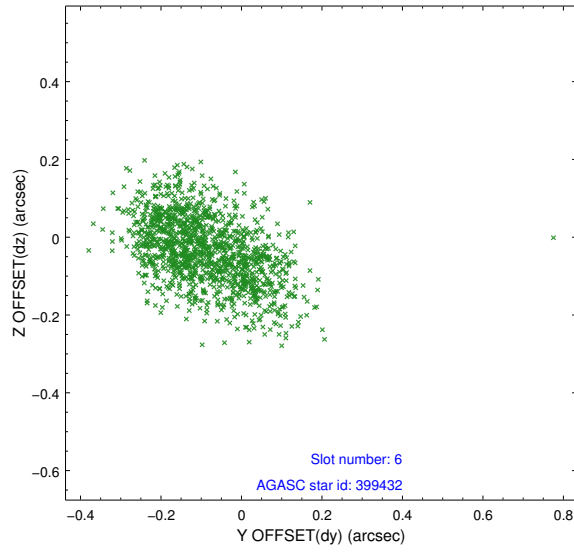
## 2.4.2 Slot 4



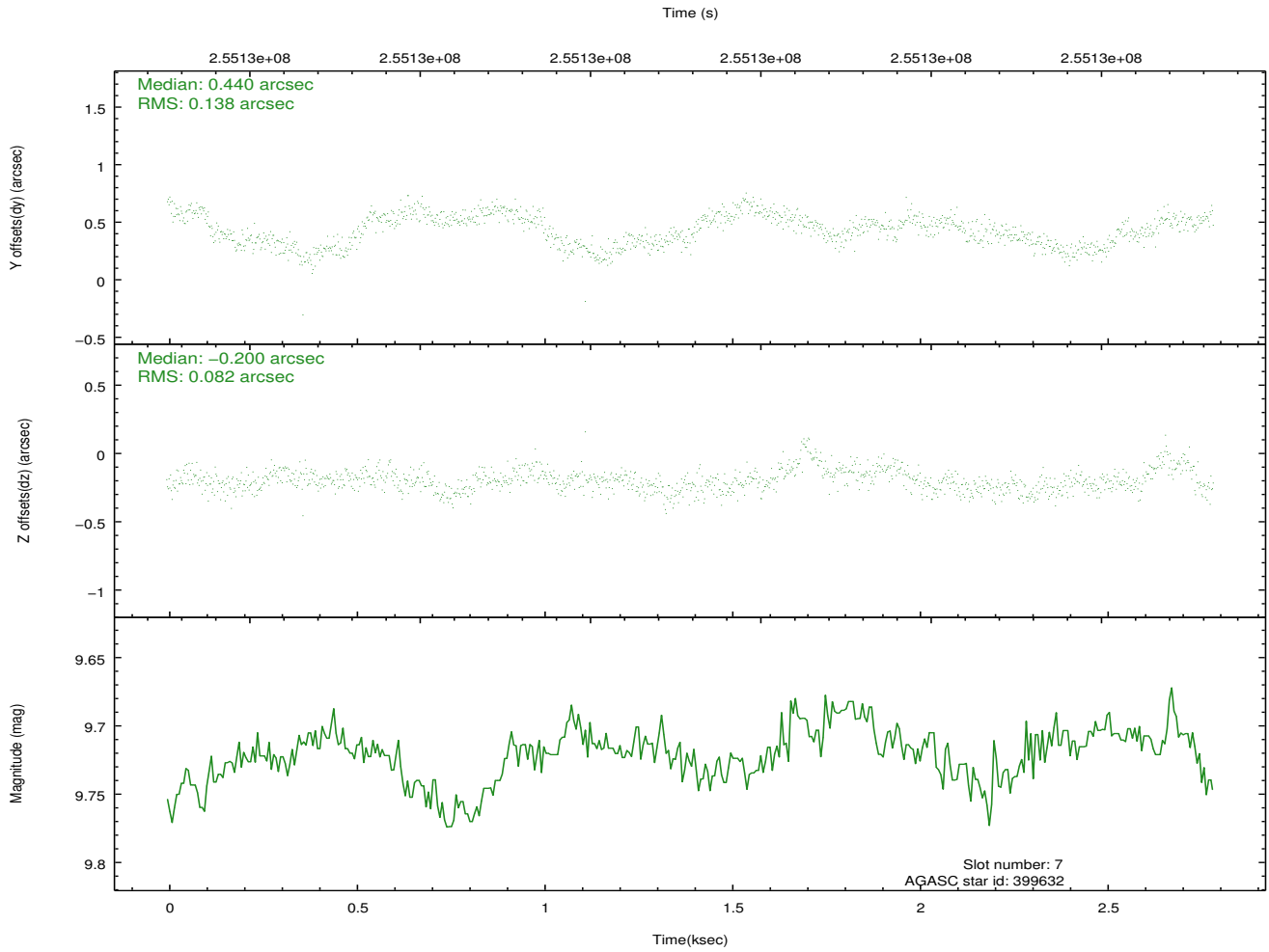
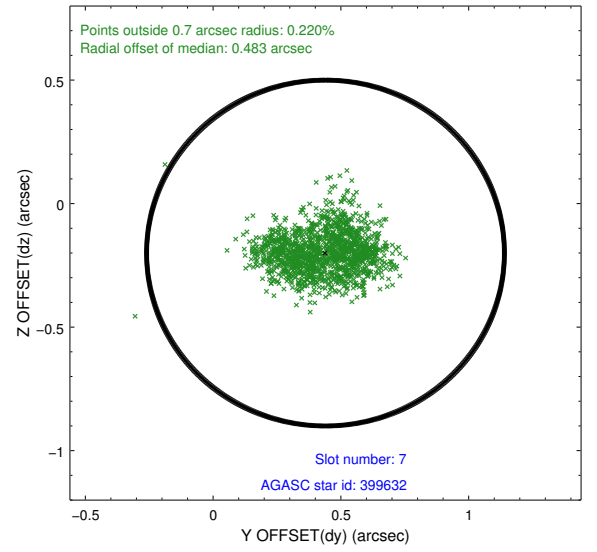
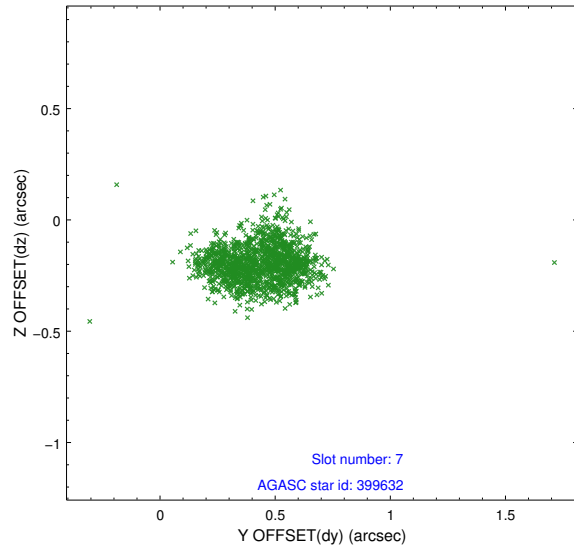
### 2.4.3 Slot 5



## 2.4.4 Slot 6

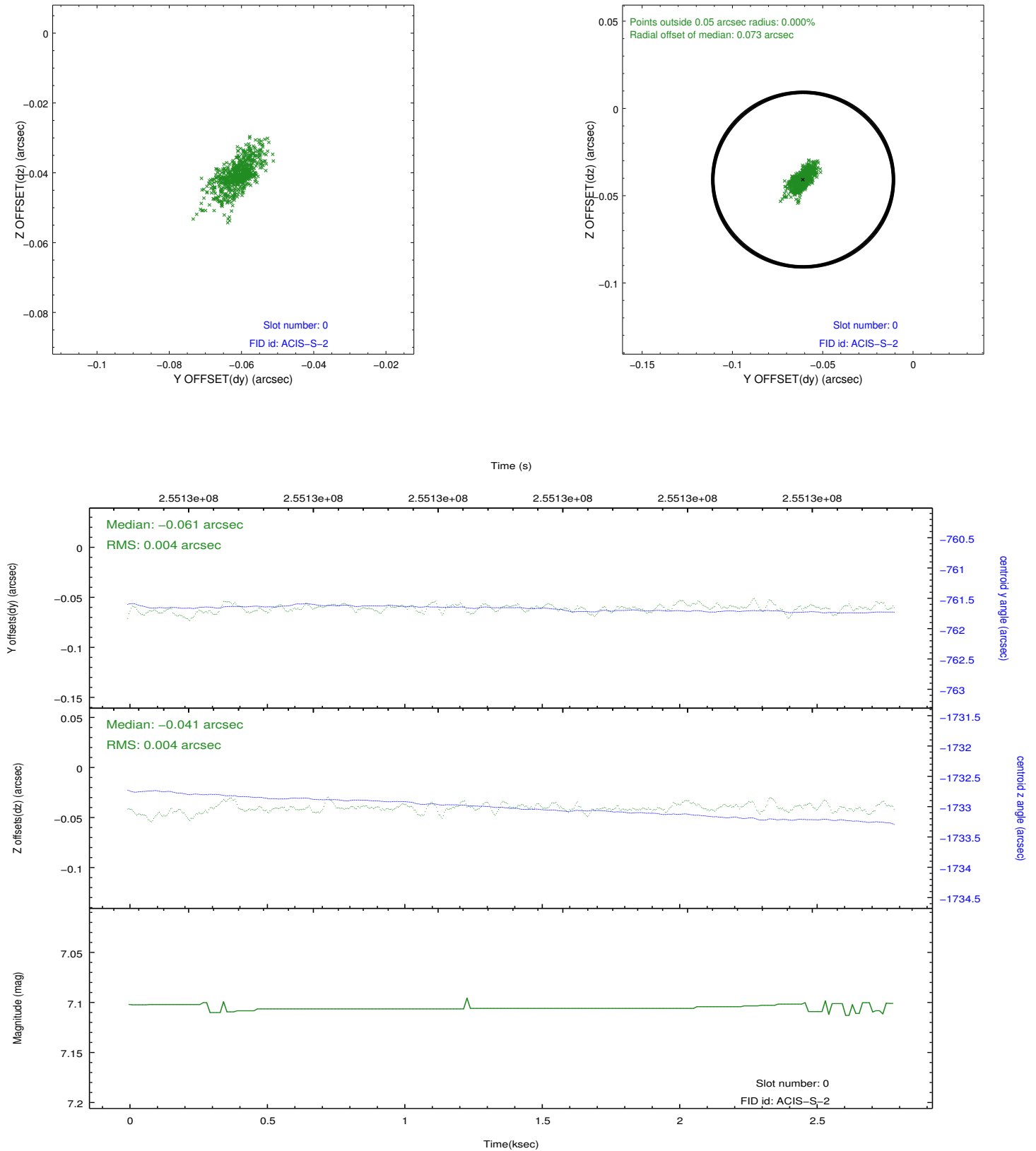


## 2.4.5 Slot 7

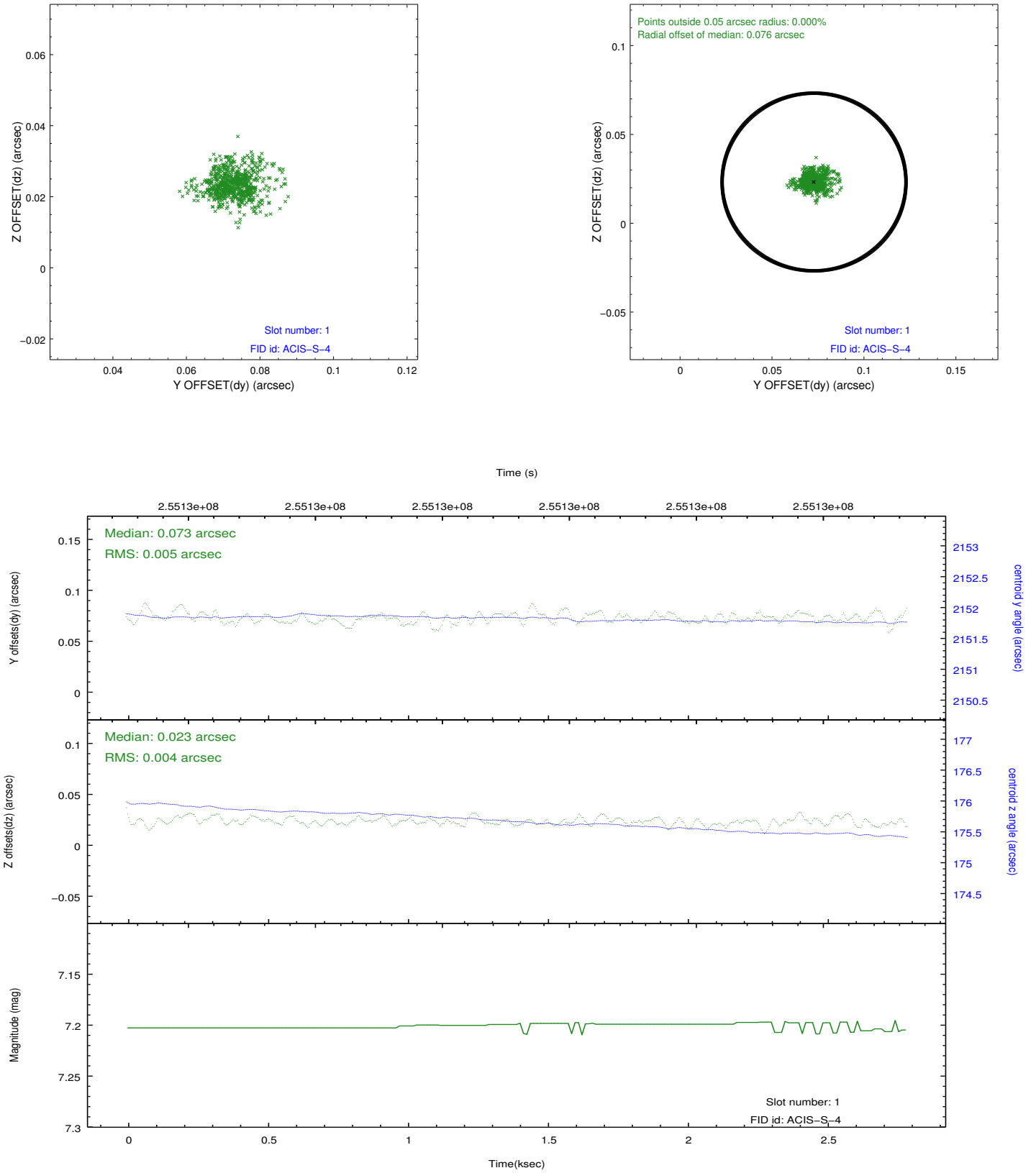


## 2.5 FID Slots

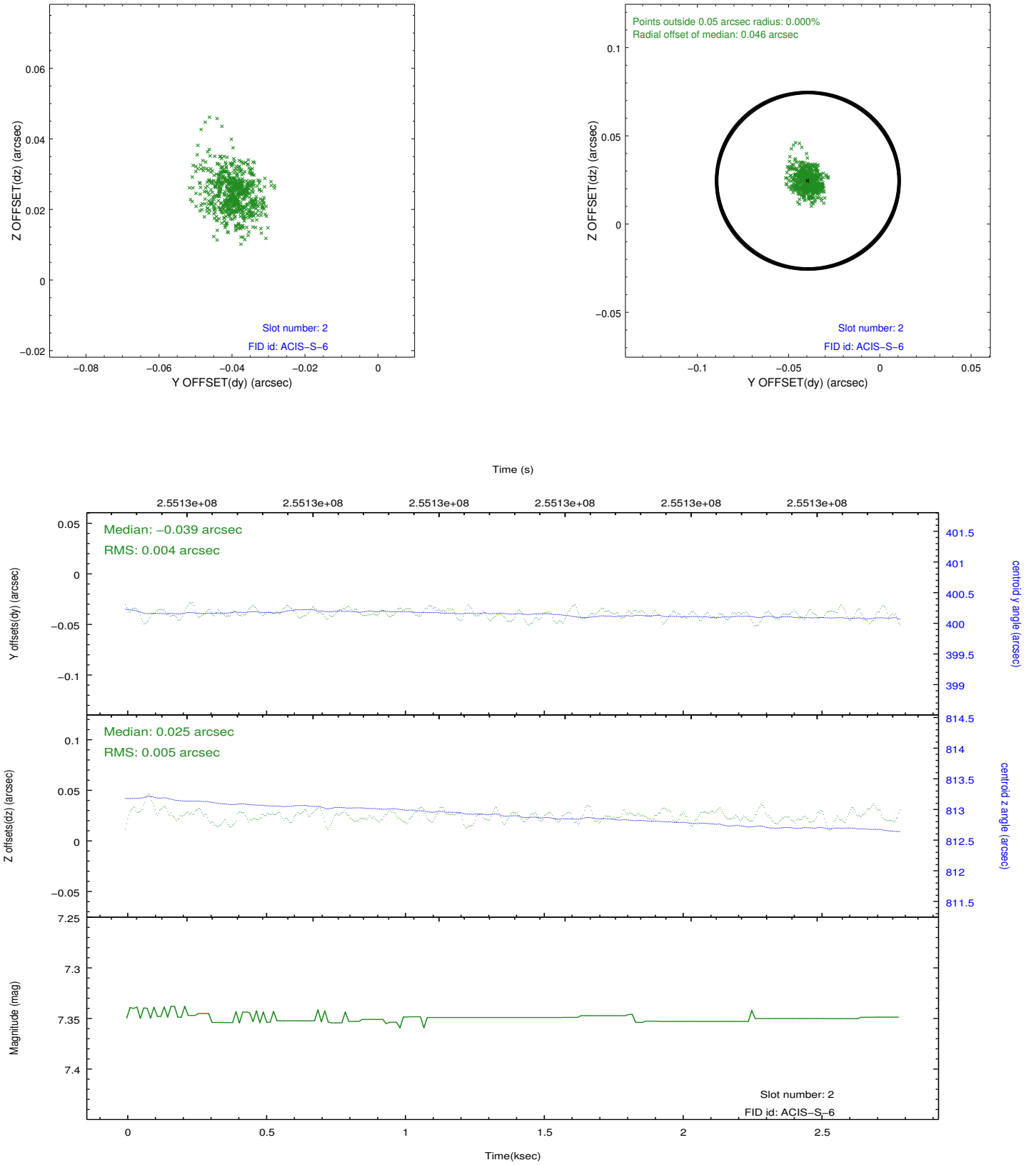
### 2.5.1 Slot 0



## 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)	2012.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.78379999

### A.2 Comments