

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13349 - L2 Version 3  
Chandra X-Ray Center

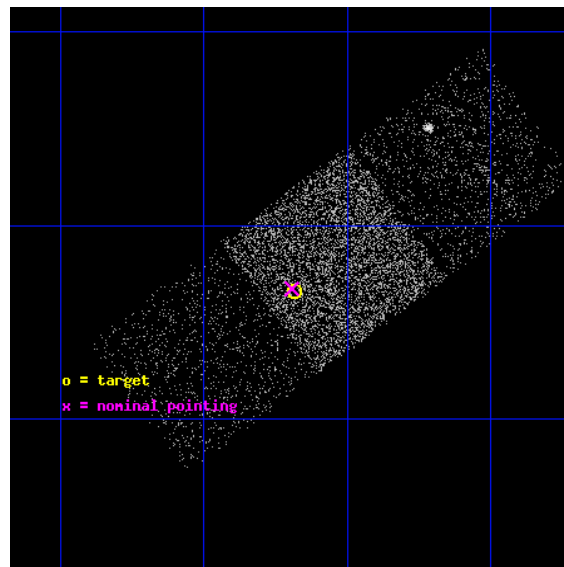
L2 Processing Date : Feb 27 2012

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# 1 Front

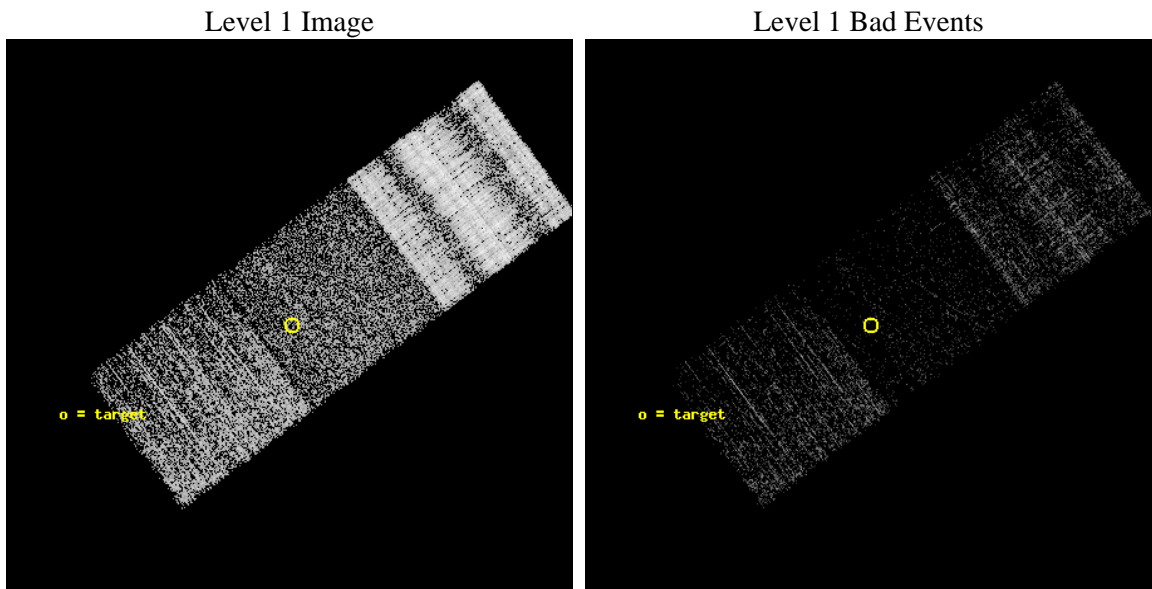
seq_num	702556	Sequence number
obs_id	13349	Observation id
title	A Large, Economical Snapshot Survey of the Most-Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	SDSS J0303-0023	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	45.920833	Observer's specified target RA [deg]
dec_targ	-0.389417	Observer's specified target Dec [deg]
ra_nom	45.923529198509	Nominal RA [deg]
dec_nom	-0.38790011453093	Nominal Dec [deg]
roll_nom	323.24280325908	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1556.2000119686	Sum of GTIs [s]
livetime	1535.8671131545	Livetime [s]
ontime6	1556.2000119686	Sum of GTIs [s]
ontime7	1556.2000119686	Sum of GTIs [s]
ontime8	1556.2000119686	Sum of GTIs [s]
l2events	8470	Number of level 2 events



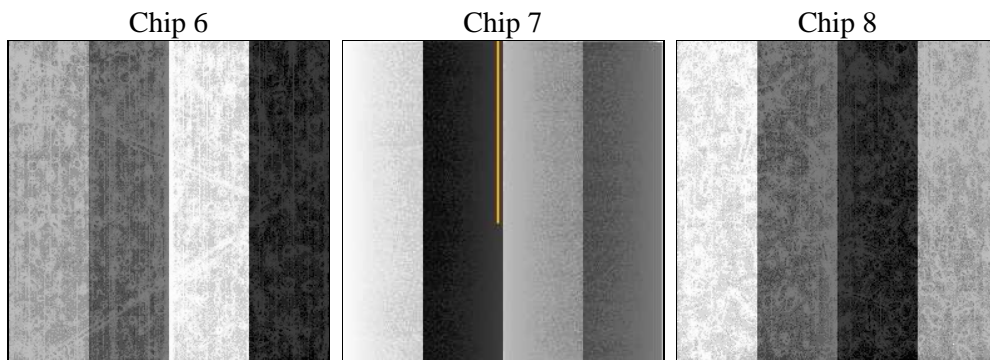
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1556.2000119686	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime6	1556.2000119686	Sum of GTIs [s]
date	2012-02-27T17:14:06	Date and time of file creation	ontime7	1556.2000119686	Sum of GTIs [s]
revision	3	Processing version of data	ontime8	1556.2000119686	Sum of GTIs [s]
			l1events	98346	Number of level 1 events

### 2.1.4 Events

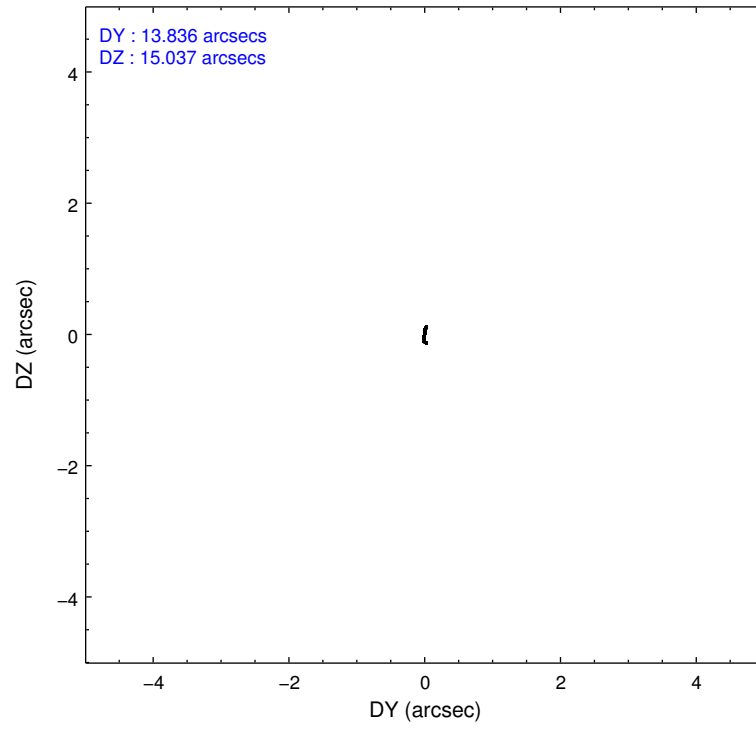
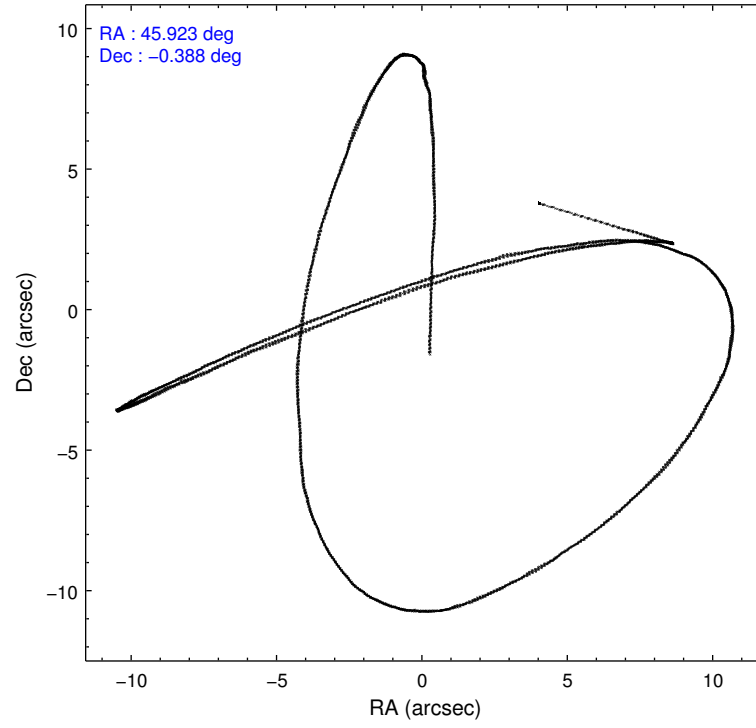
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	19306	12444	66596
rejected events	17265	6319	20133
rejected %	89%	50%	30%

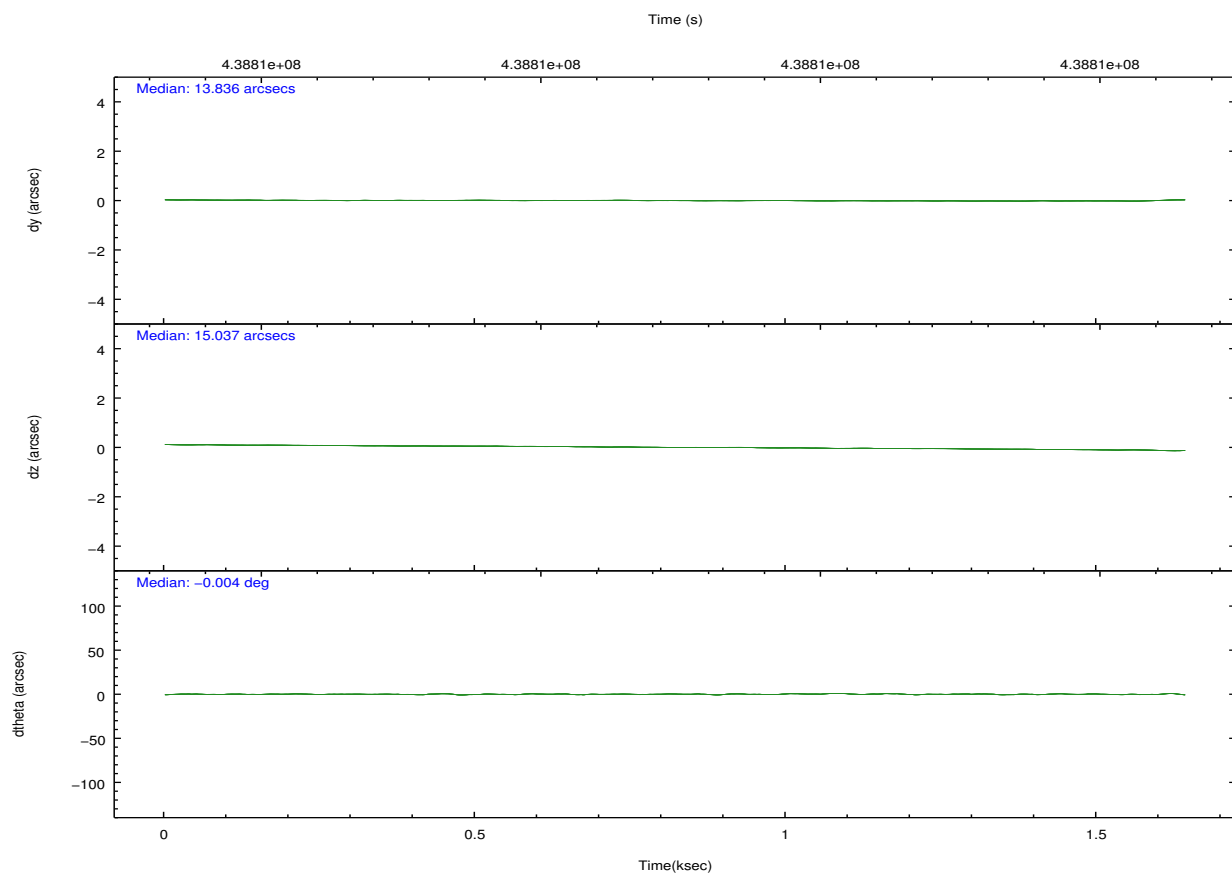
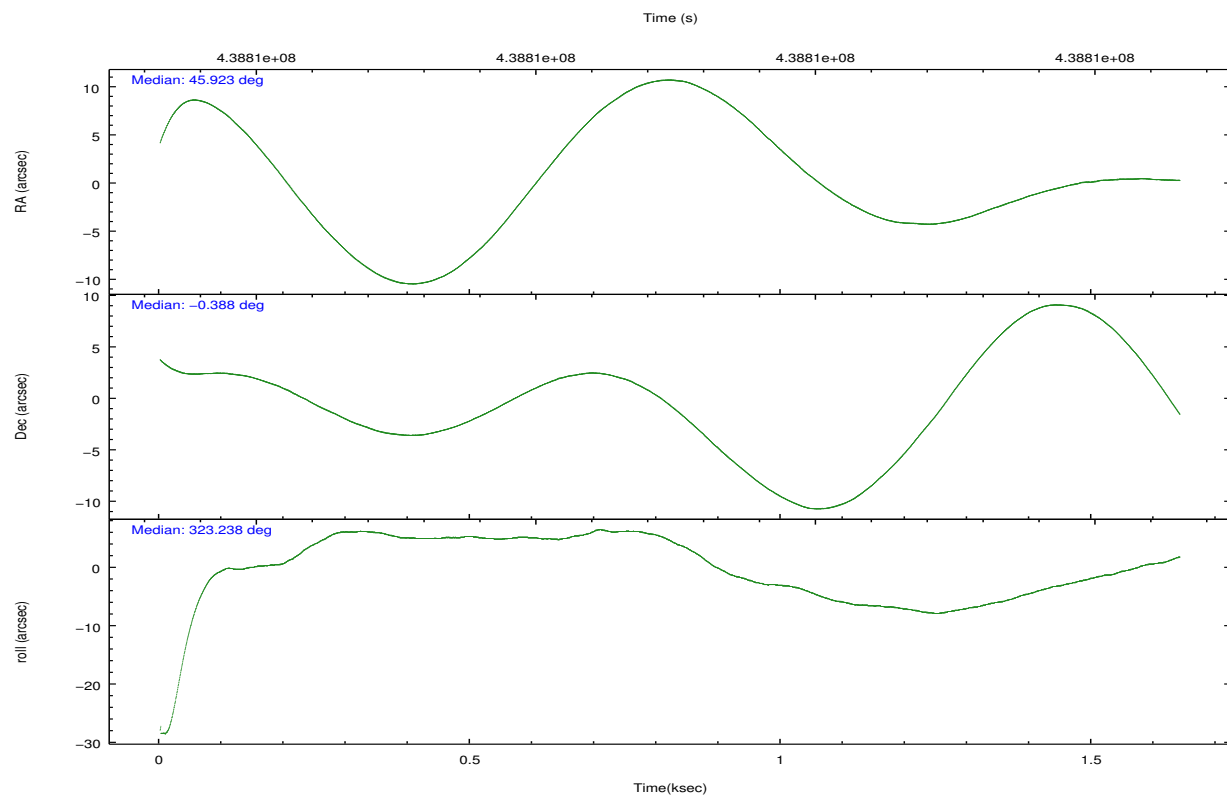
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	866	709	13744
	4%	5%	20%
grade 1 events	9	36	122
	0%	0%	0%
grade 2 events	715	1707	6020
	3%	13%	9%
grade 3 events	112	609	8956
	0%	4%	13%
grade 4 events	126	593	8068
	0%	4%	12%
grade 5 events	364	1116	1146
	1%	8%	1%
grade 6 events	226	2524	9765
	1%	20%	14%
grade 7 events	16888	5150	18775
	87%	41%	28%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	45.896468	45.92352919850913	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.385498	-0.3879001145309275	Alternating exposures requested	N	N
[deg] Pointing Roll	323.086254	323.2428032590822	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	438811568.184000	438810072.63999			
Observation start date	2011-11-27T20:05:02	2011-11-27T19:41:12			
[s] Observation end time (MET)	438813068.184000	438813882.05269			
Observation end date	2011-11-27T20:30:02	2011-11-27T20:44:42			
Read mode	TIMED	TIMED			

## 2.3 Aspect





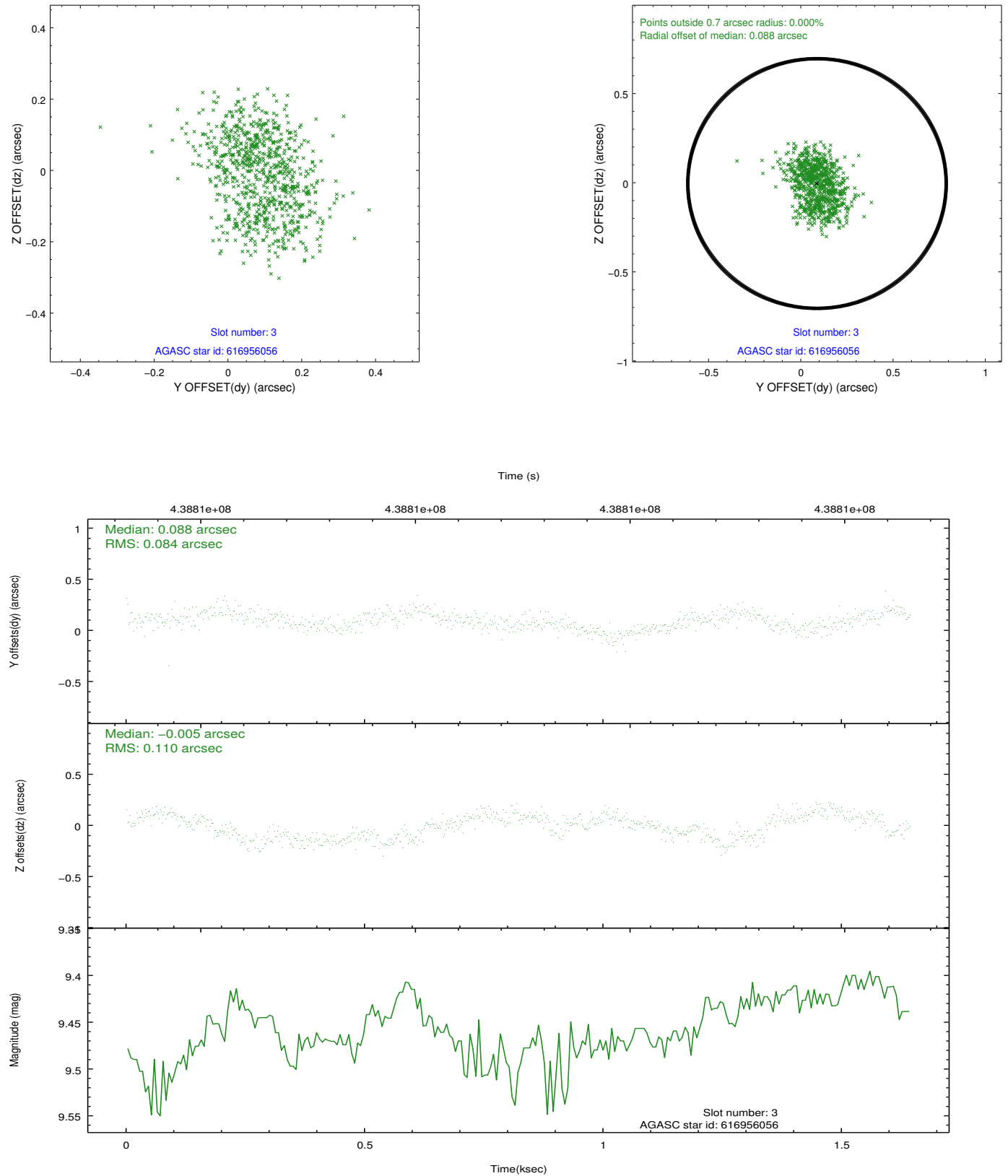
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	401	-0.078	-0.024	0.007	0.012	0.000000	0.000000	-766.84	-1736.45
1	FID	ACIS-S-4	6.99	401	0.245	0.045	0.005	0.009	0.000000	0.000000	2144.91	167.95
2	FID	ACIS-S-5	7.02	401	-0.197	-0.012	0.007	0.011	0.000000	0.000000	-1814.66	166.12
3	GUIDE	616956056	9.46	799	0.088	-0.005	0.146	0.231	45.933882	-0.818345	1045.56	-1165.68
4	GUIDE	616959768	9.66	801	-0.072	0.030	0.154	0.242	45.383066	-0.590181	-1031.56	-1701.79
5	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	616965304	9.96	800	-0.029	-0.022	0.183	0.278	46.228385	-0.032483	192.62	1730.88
7	GUIDE	616962800	8.03	796	0.005	0.004	0.067	0.113	45.469553	-0.918492	-73.73	-2455.68

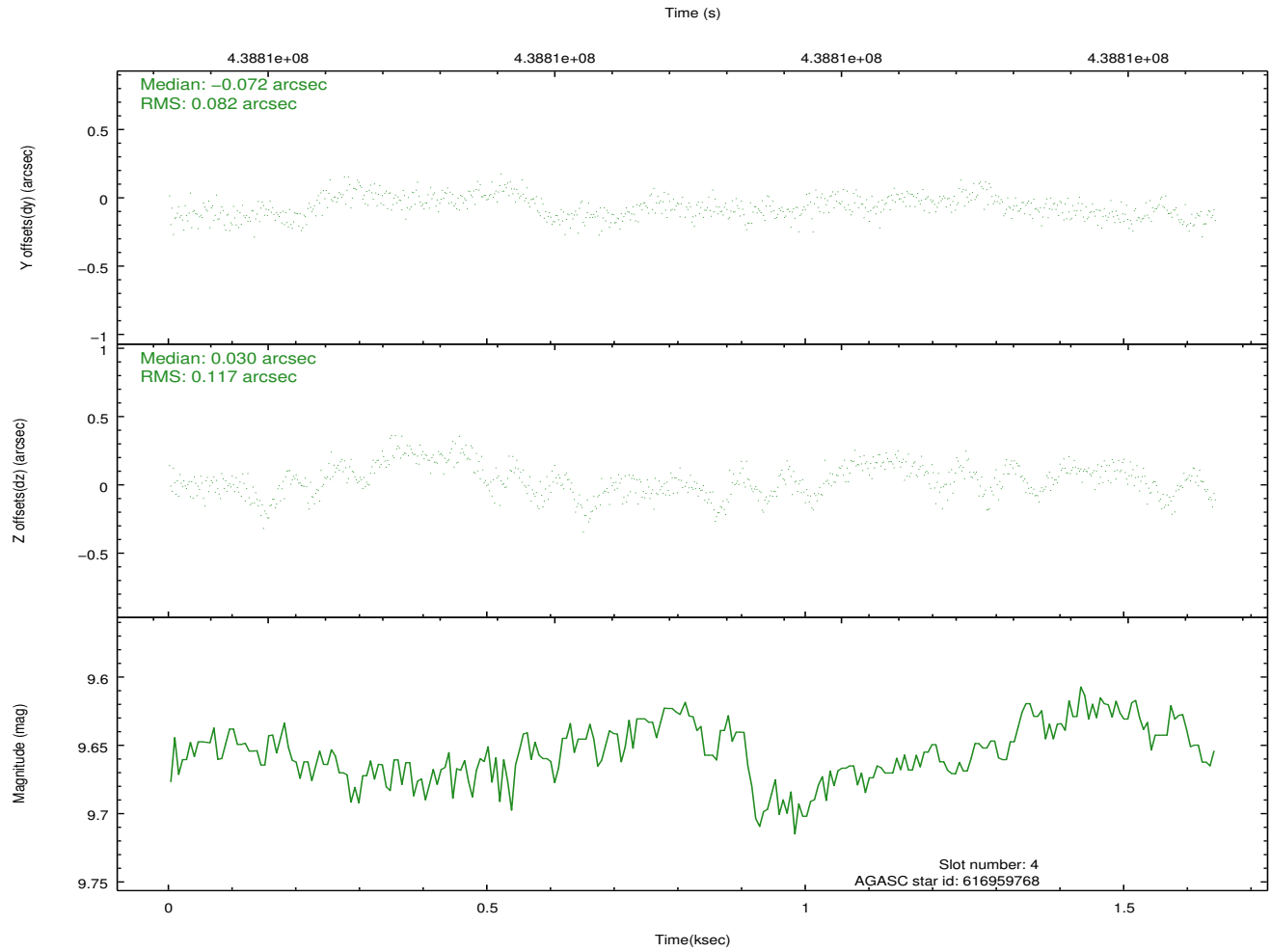
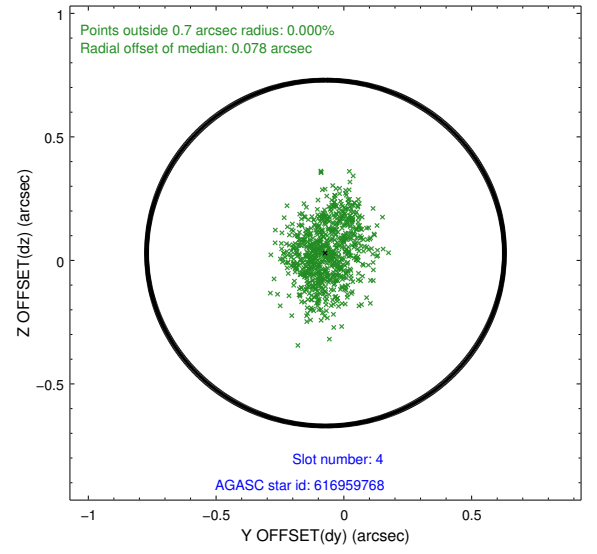
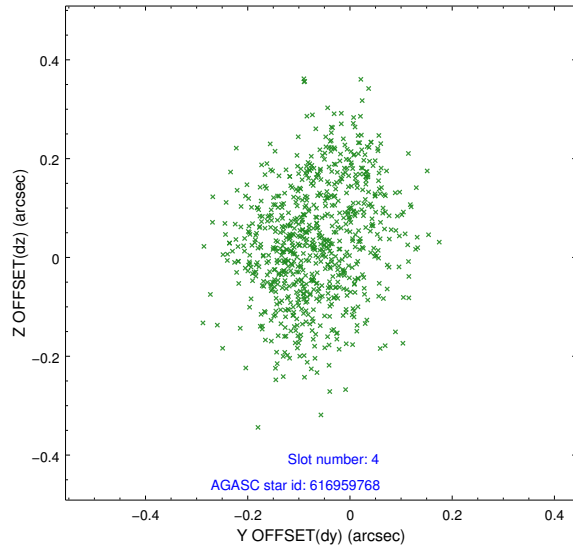


## 2.4 Star Slots

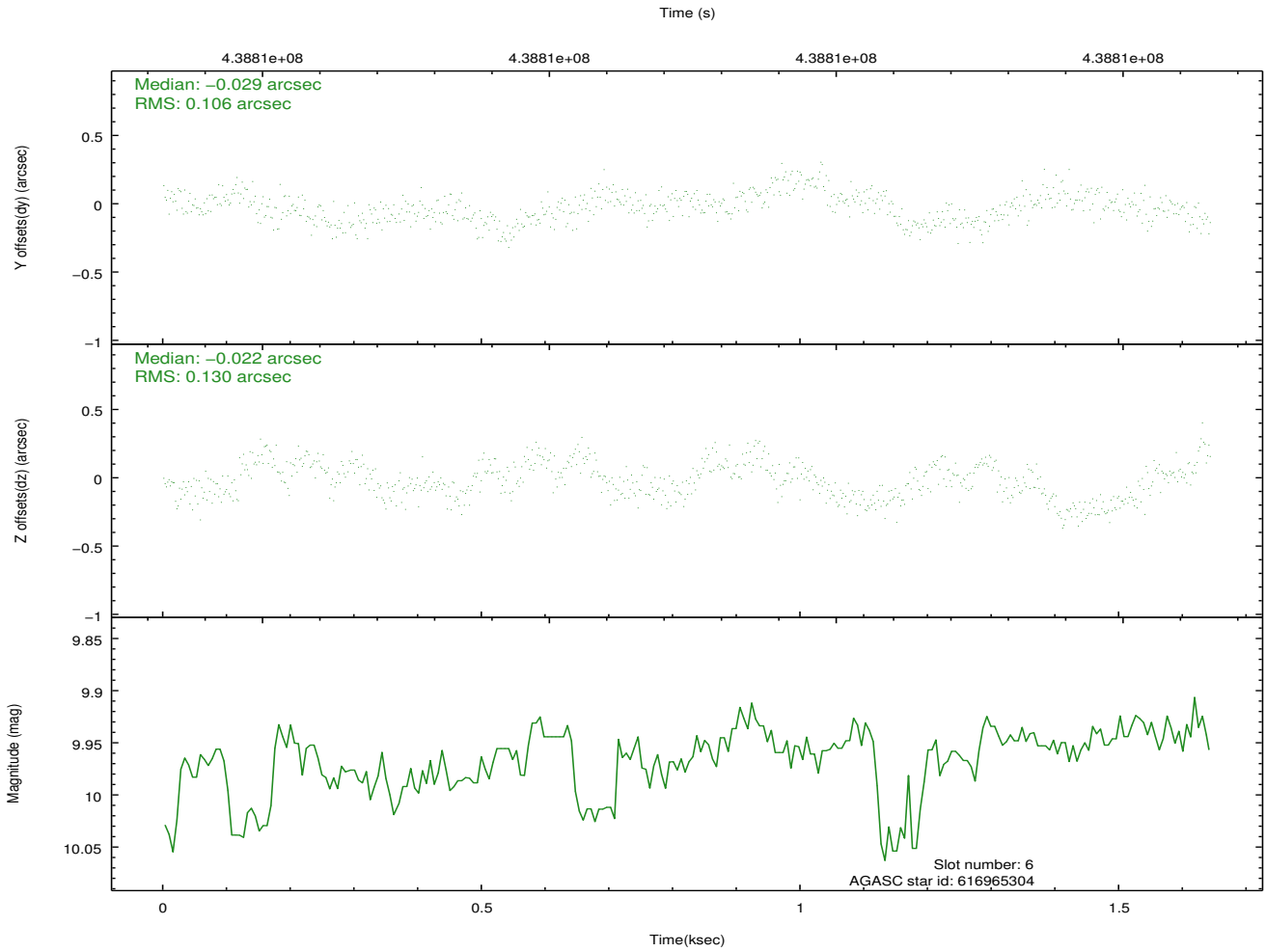
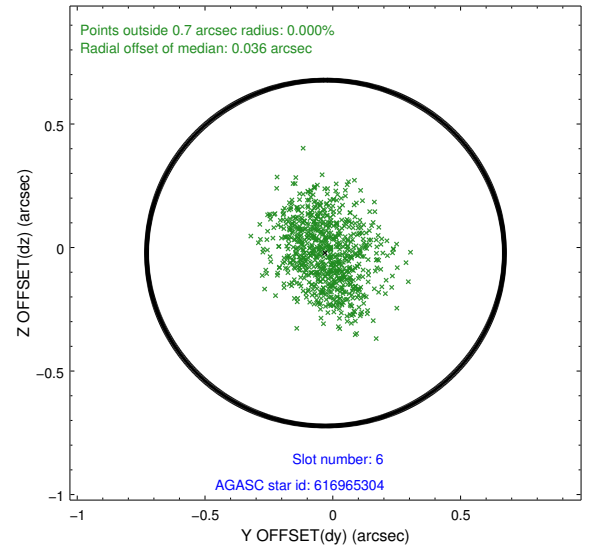
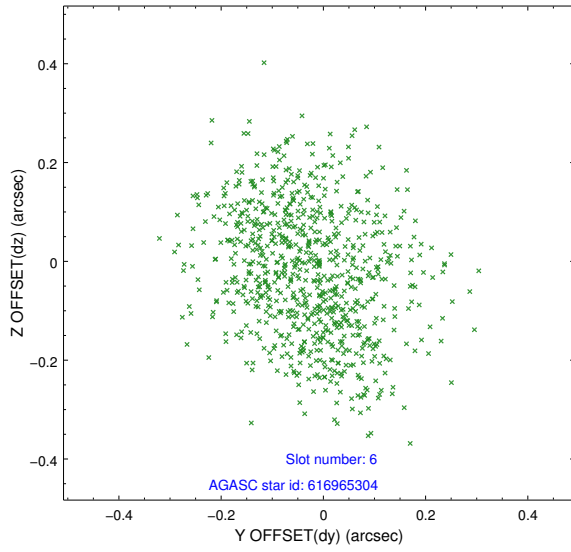
### 2.4.1 Slot 3



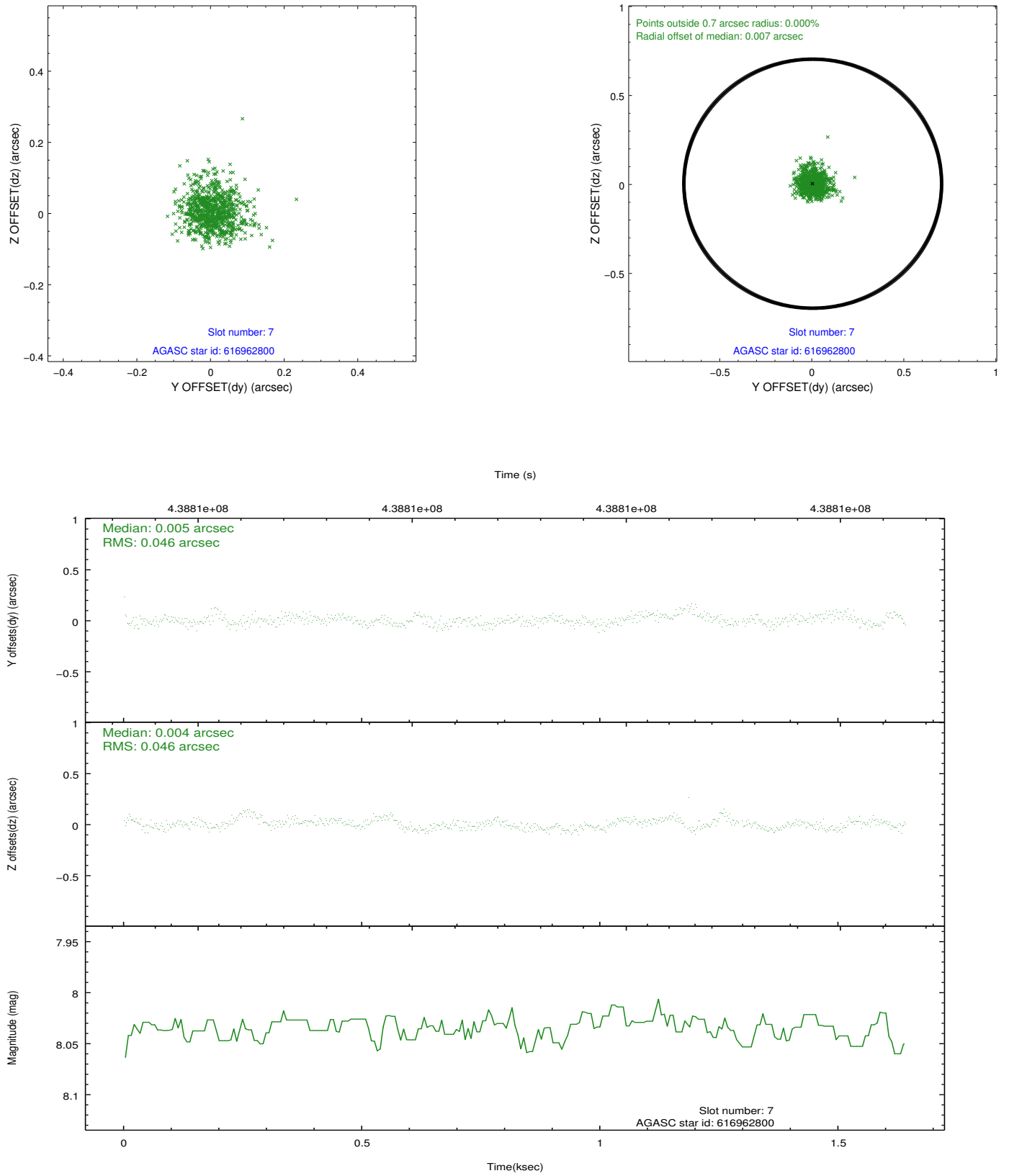
## 2.4.2 Slot 4



### 2.4.3 Slot 6

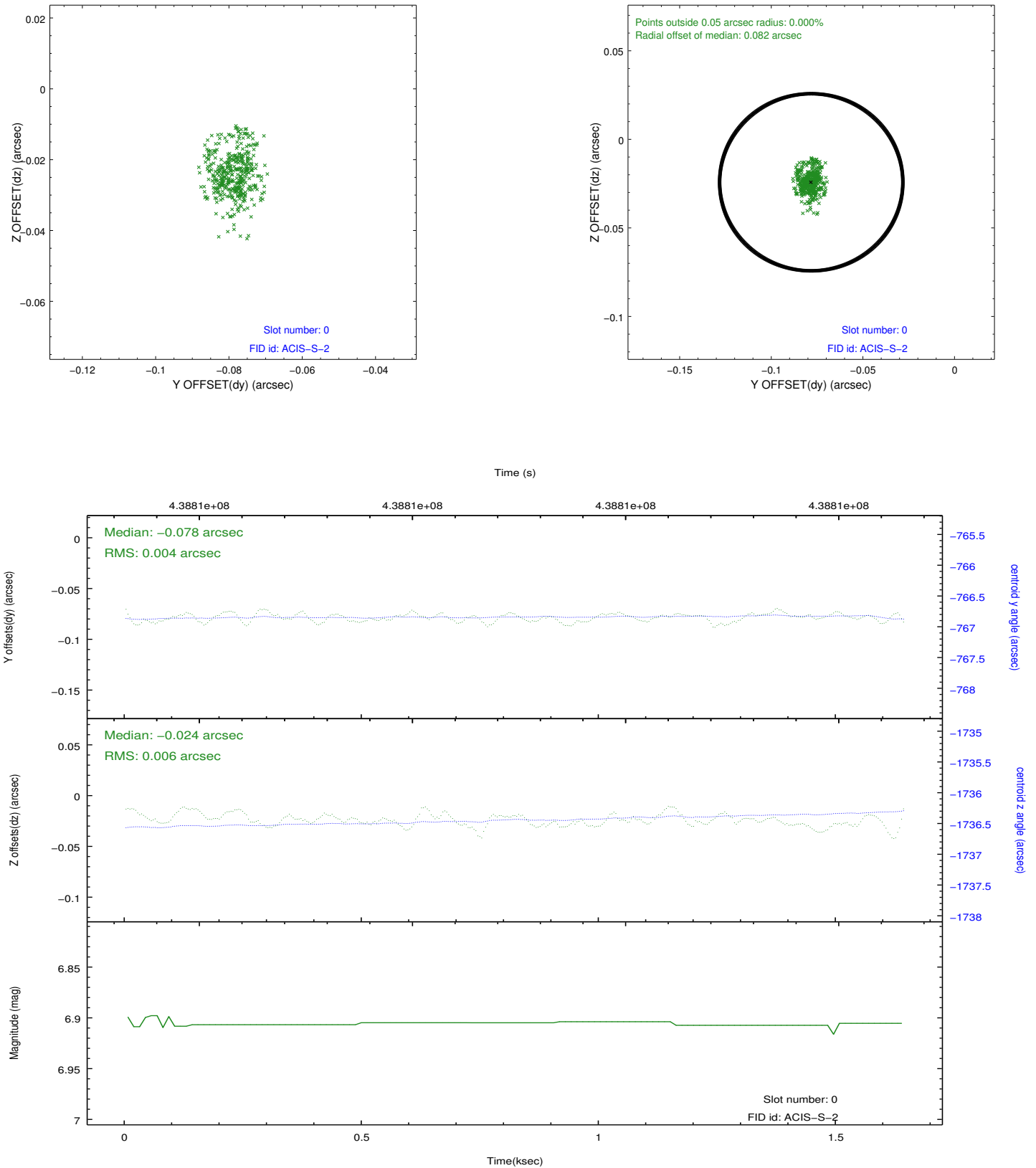


## 2.4.4 Slot 7

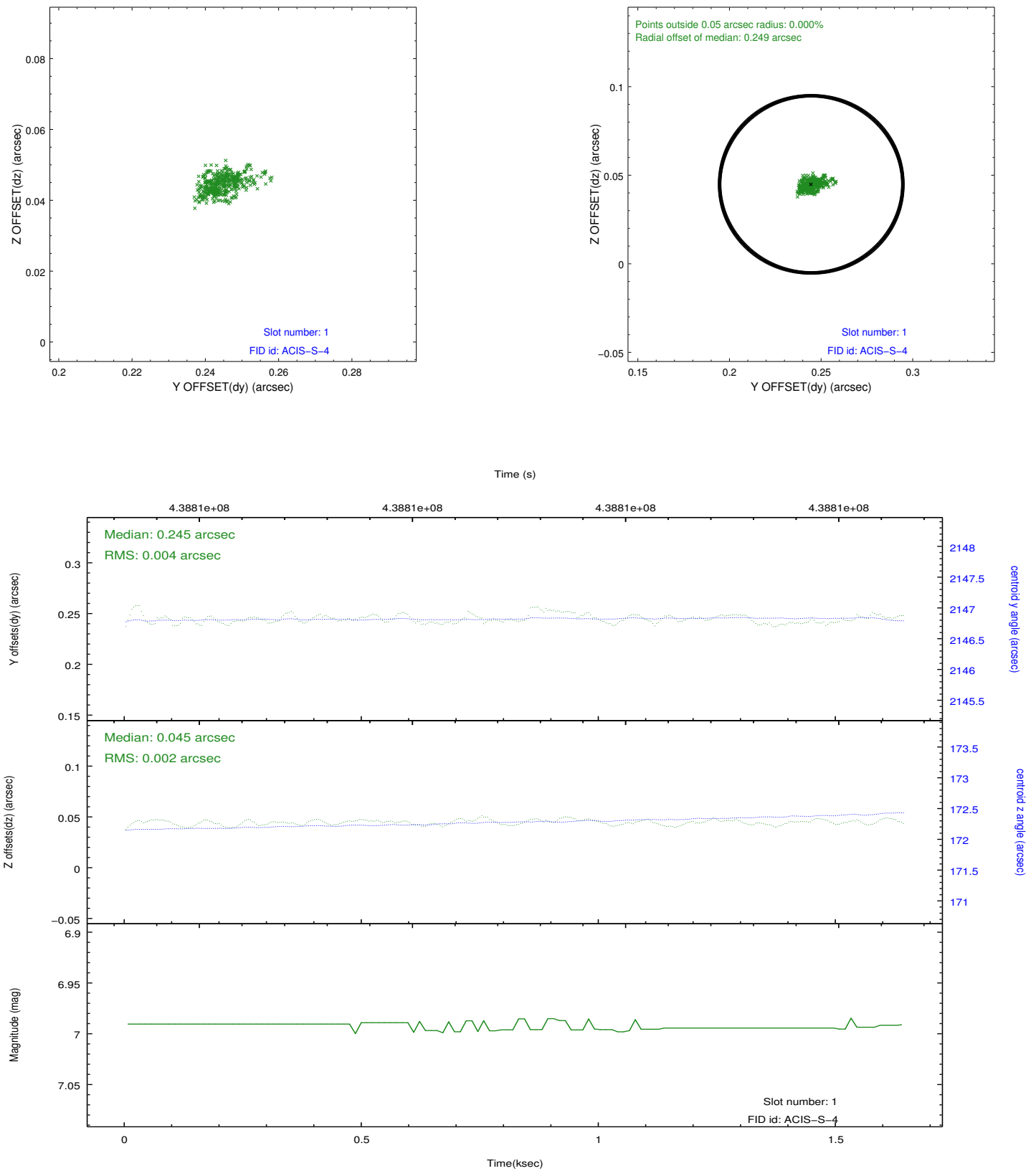


## 2.5 FID Slots

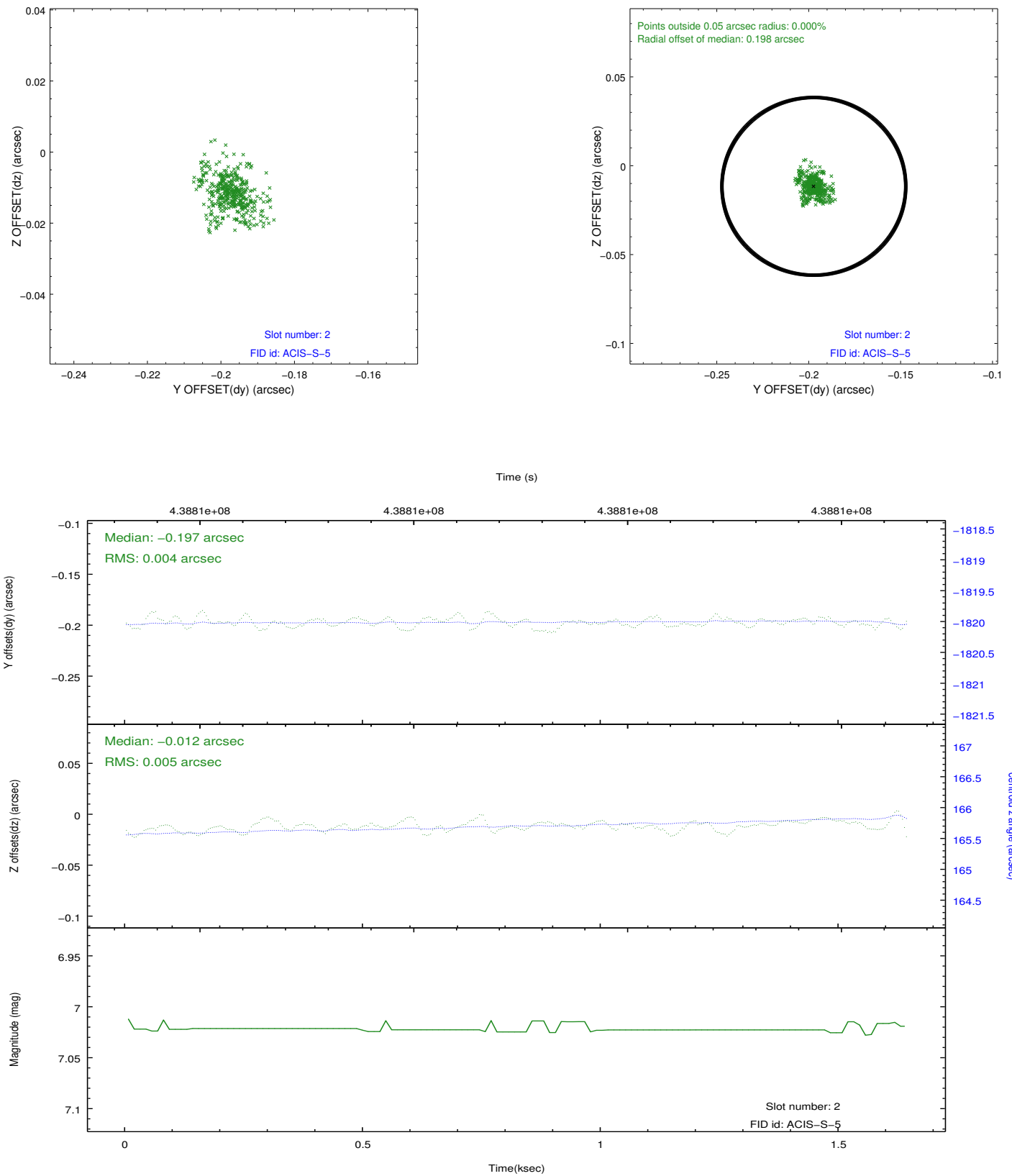
### 2.5.1 Slot 0



## 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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5562000119686

## A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.