

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12482 - L2 Version 2  
Chandra X-Ray Center

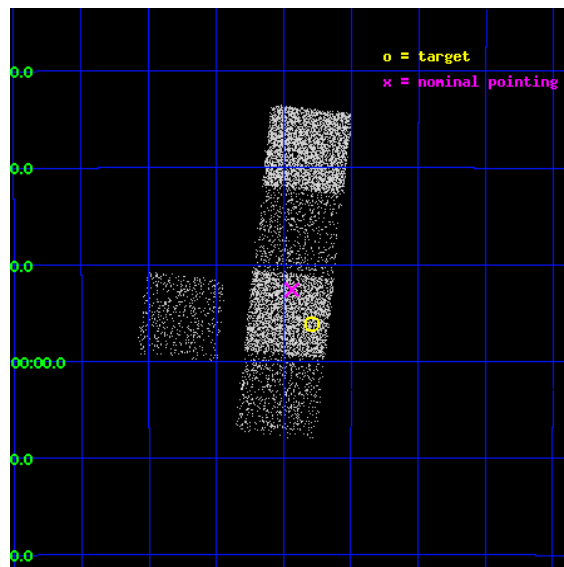
L2 Processing Date : Feb 22 2012

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# 1 Front

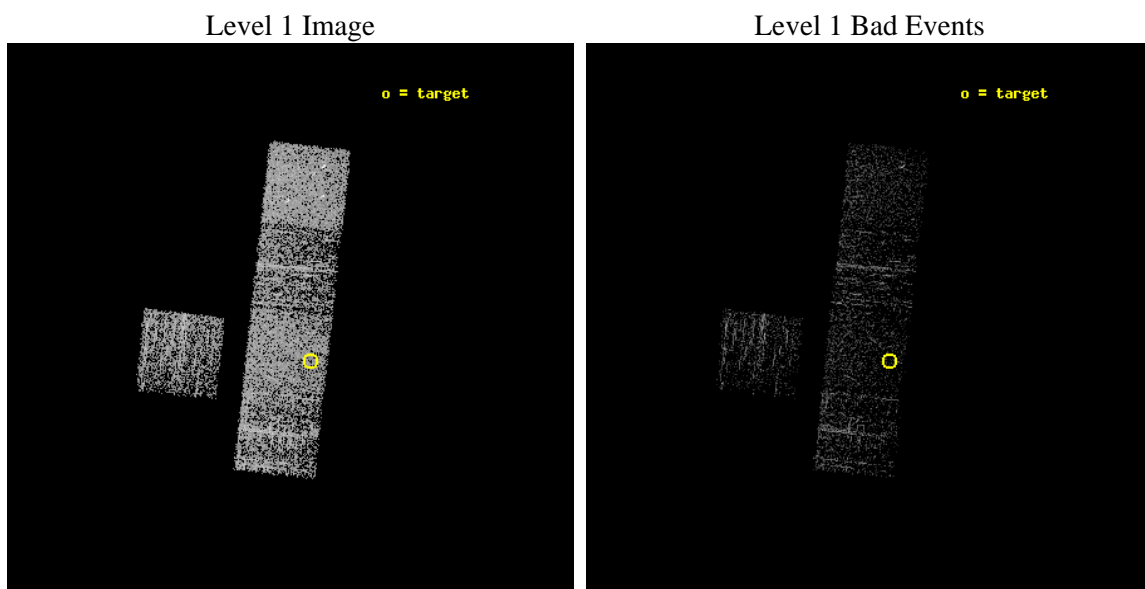
seq_num	401223	Sequence number
obs_id	12482	Observation id
title	The Nearest and Brightest Quiescent Low Mass X-ray Binaries	Propos
observer	Prof. Robert Rutledge	Principal investigator
object	1RXS J054747.2-195609	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	86.946667	Observer's specified target RA [deg]
dec_targ	-19.935833	Observer's specified target Dec [deg]
ra_nom	86.984502220173	Nominal RA [deg]
dec_nom	-19.876920988341	Nominal Dec [deg]
roll_nom	96.377561972392	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1041.6000080109	Sum of GTIs [s]
livetime	1027.9907370914	Livetime [s]
ontime3	1041.6000080109	Sum of GTIs [s]
ontime5	1041.6000080109	Sum of GTIs [s]
ontime6	1041.6000080109	Sum of GTIs [s]
ontime7	1041.6000080109	Sum of GTIs [s]
ontime8	1041.6000080109	Sum of GTIs [s]
l2events	9985	Number of level 2 events



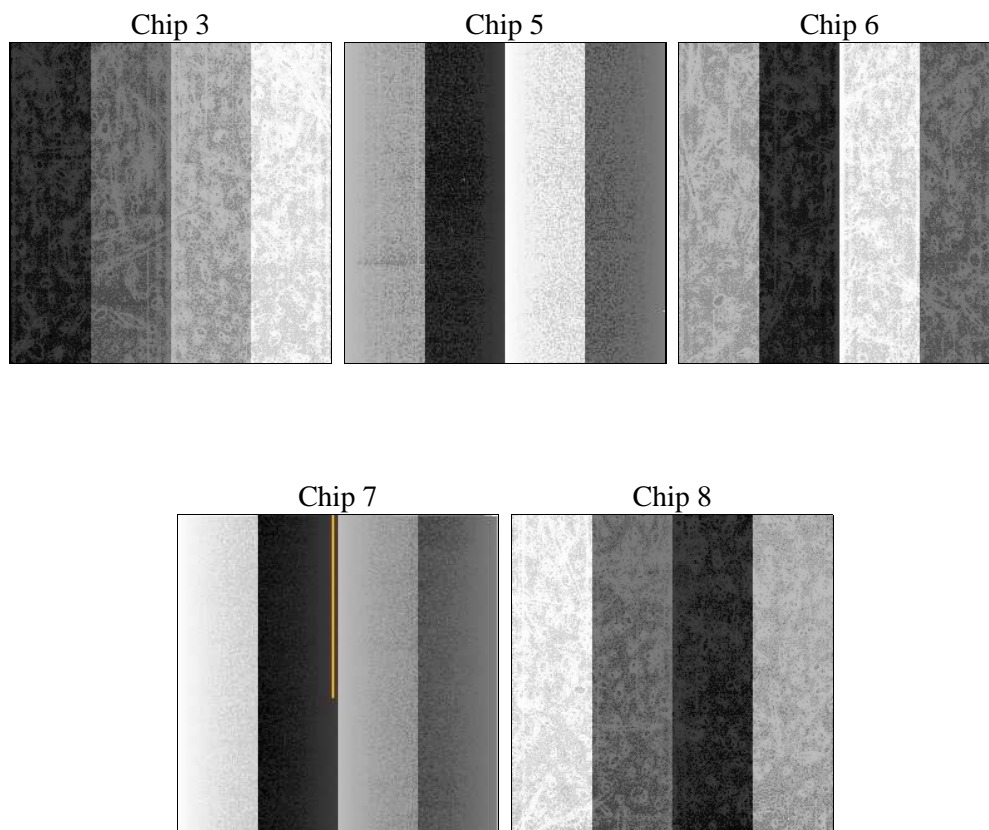
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1041.6000080109	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime3	1041.6000080109	Sum of GTIs [s]
date	2012-02-22T23:50:03	Date and time of file creation	ontime5	1041.6000080109	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	1041.6000080109	Sum of GTIs [s]
			ontime7	1041.6000080109	Sum of GTIs [s]
			ontime8	1041.6000080109	Sum of GTIs [s]
			l1events	38742	Number of level 1 events

### 2.1.4 Events

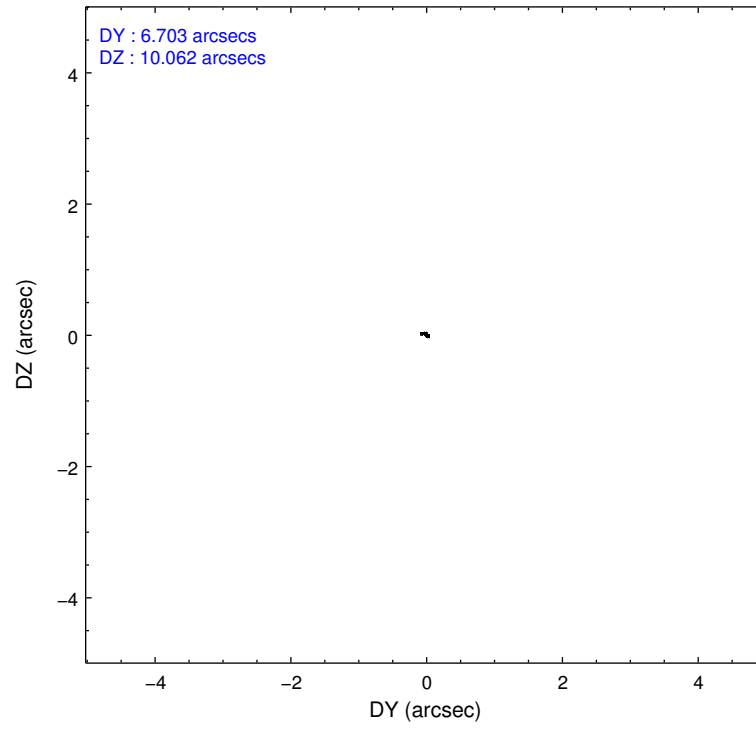
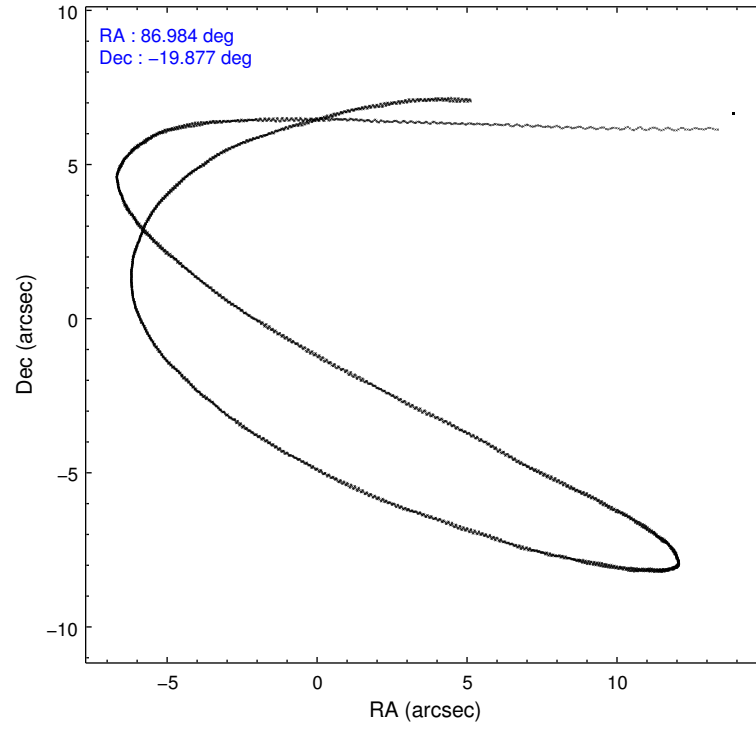
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6124	10394	6188	8198	7838
rejected events	5473	5267	5408	4590	5870
rejected %	89%	50%	87%	55%	74%

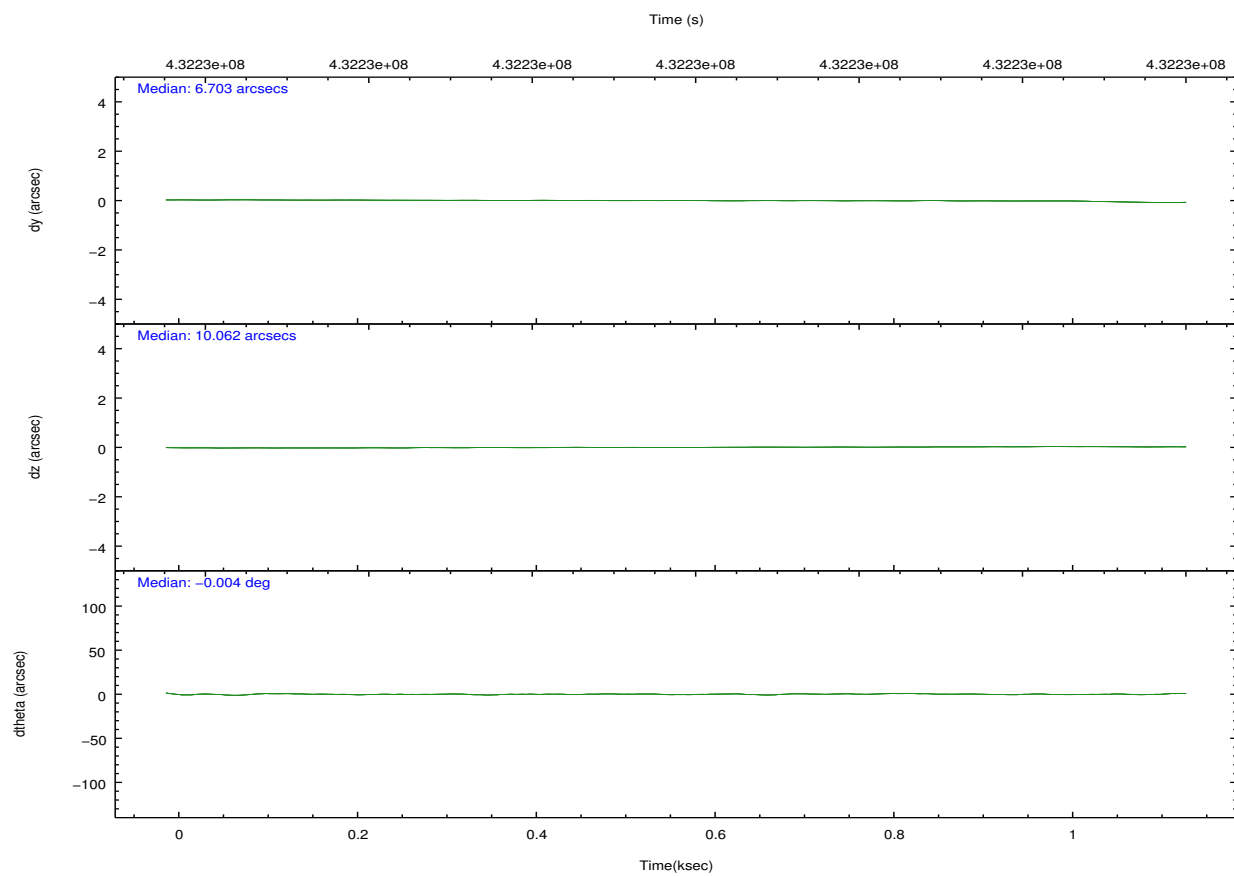
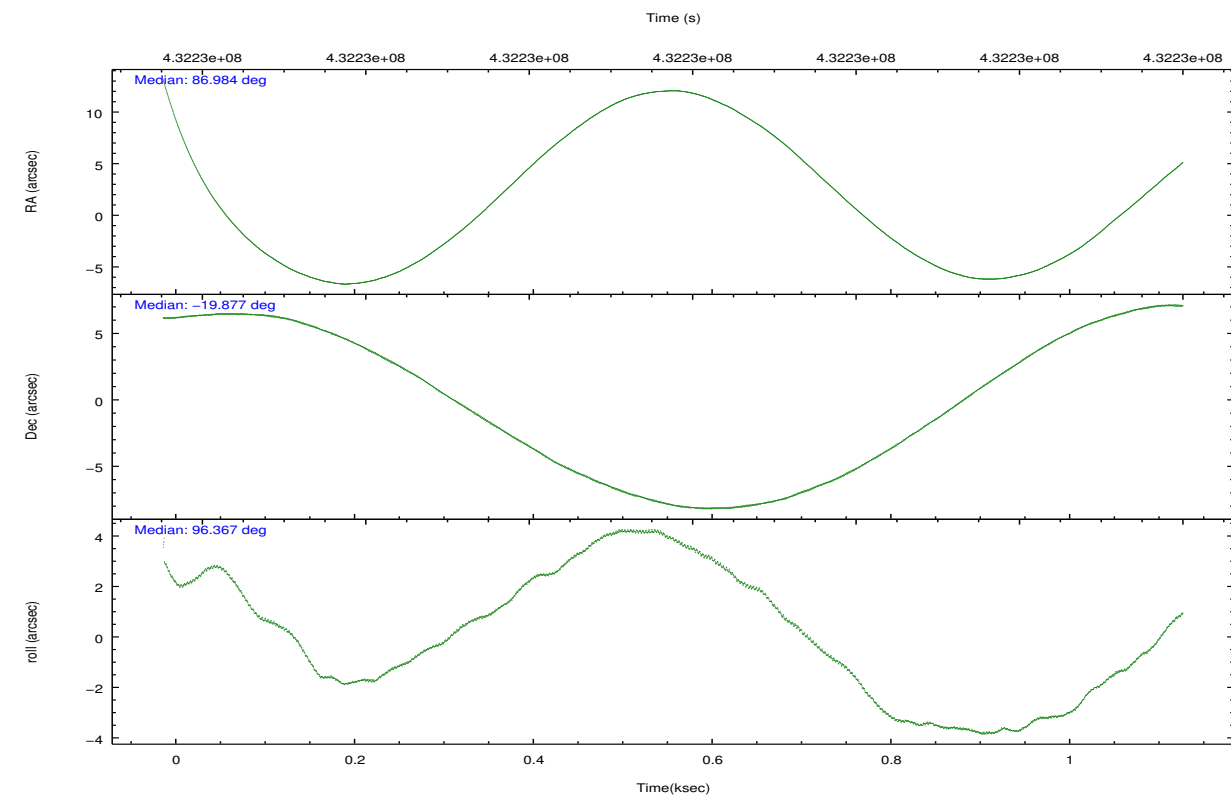
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	232	831	262	305	529
	3%	7%	4%	3%	6%
grade 1 events	4	57	6	6	7
	0%	0%	0%	0%	0%
grade 2 events	128	1432	179	747	468
	2%	13%	2%	9%	5%
grade 3 events	72	158	104	338	244
	1%	1%	1%	4%	3%
grade 4 events	88	165	57	295	209
	1%	1%	0%	3%	2%
grade 5 events	308	735	290	843	419
	5%	7%	4%	10%	5%
grade 6 events	133	2556	181	1933	522
	2%	24%	2%	23%	6%
grade 7 events	5159	4460	5109	3731	5440
	84%	42%	82%	45%	69%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	87.002485	86.9845022201735	CCD I2 on	N	N
[deg] Pointing Dec	-19.898934	-19.87692098834062	CCD I3 on	O1	Y
[deg] Pointing Roll	96.227110	96.37756197239229	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	432233344.184000	432232314.8945	CCD S5 on	N	N
Observation start date	2011-09-12T16:47:58	2011-09-12T16:31:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	432234344.184000	432235567.73217	On-chip summing requested	N	N
Observation end date	2011-09-12T17:04:38	2011-09-12T17:26:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





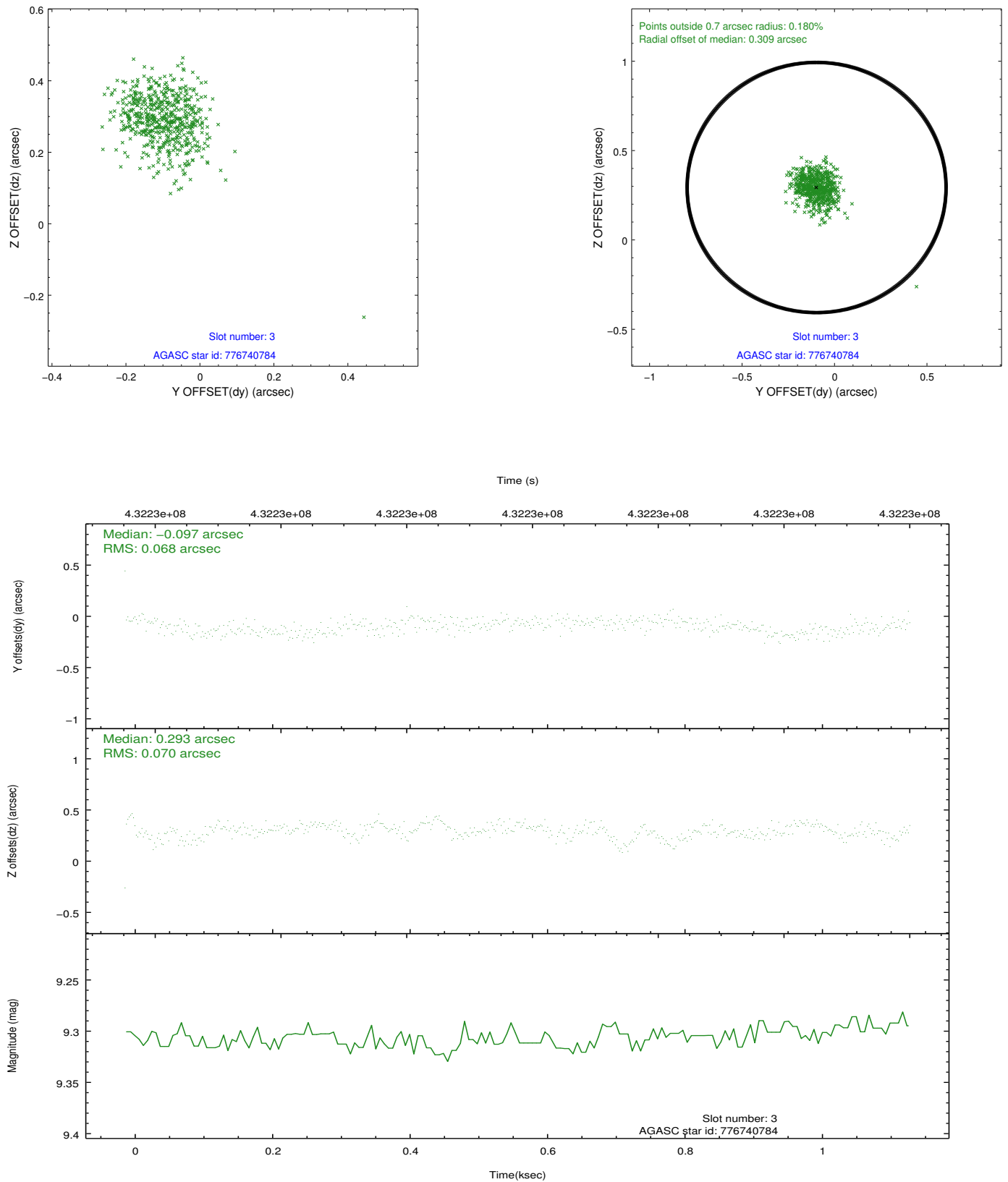
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.00	279	-0.076	-0.034	0.006	0.010	0.000000	0.000000	-759.51	-1731.30
1	FID	ACIS-S-4	7.10	279	0.175	0.046	0.005	0.009	0.000000	0.000000	2151.36	171.24
2	FID	ACIS-S-5	7.12	279	-0.131	-0.003	0.006	0.011	0.000000	0.000000	-1804.91	171.48
3	GUIDE	776740784	9.30	556	-0.097	0.293	0.097	0.156	87.496989	-20.243051	-1415.76	-1526.94
4	GUIDE	776742408	8.79	558	0.169	0.226	0.074	0.114	87.392577	-20.066833	-748.37	-1249.37
5	GUIDE	776744816	7.91	558	-0.197	-0.322	0.063	0.097	86.342572	-20.090151	-449.39	2289.33
6	GUIDE	776744984	7.73	558	-0.040	0.073	0.078	0.129	87.302127	-19.399882	1673.38	-1202.94
7	GUIDE	776745872	9.48	556	0.172	-0.274	0.117	0.180	86.352528	-20.211877	-884.03	2301.72

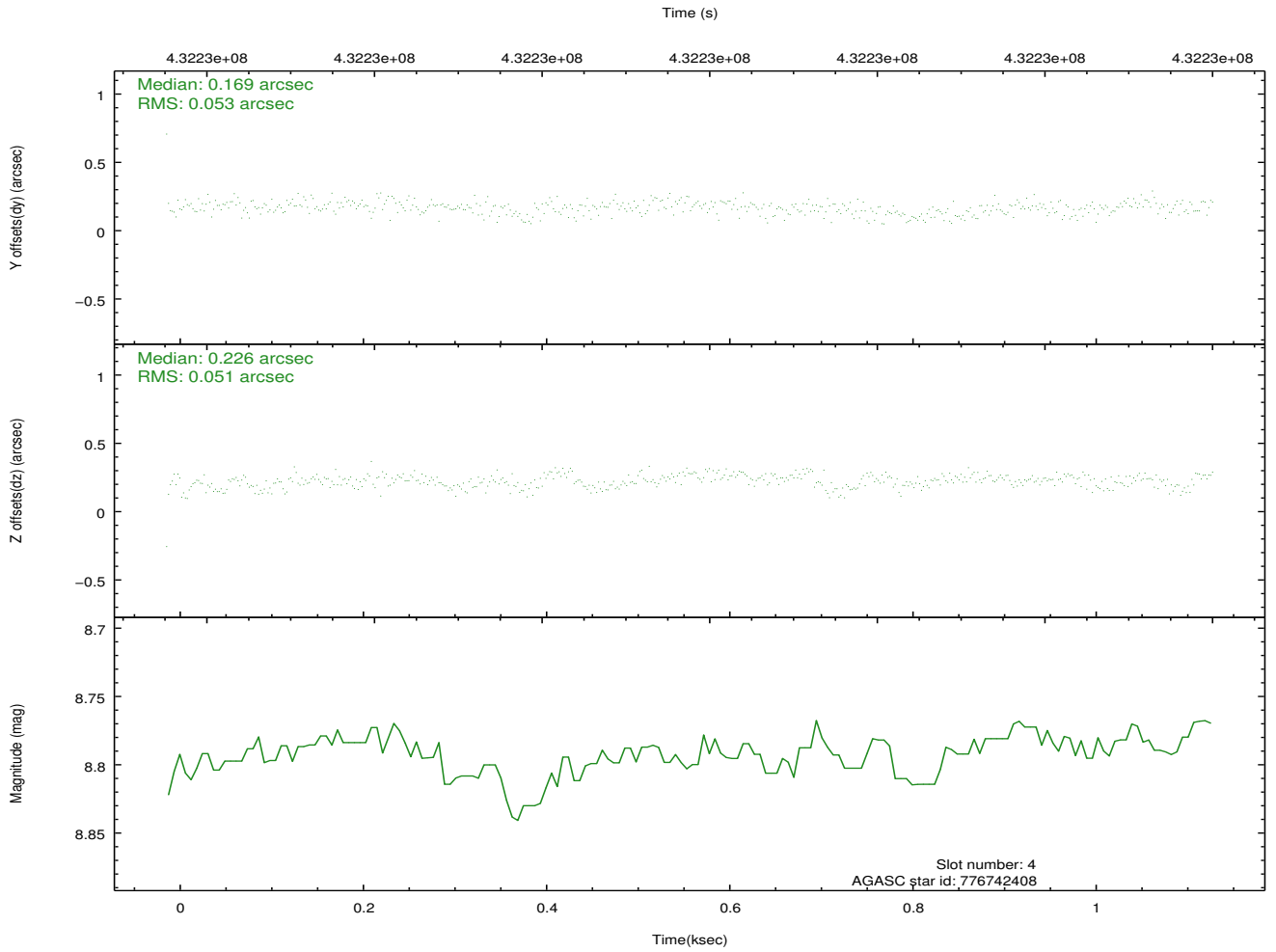
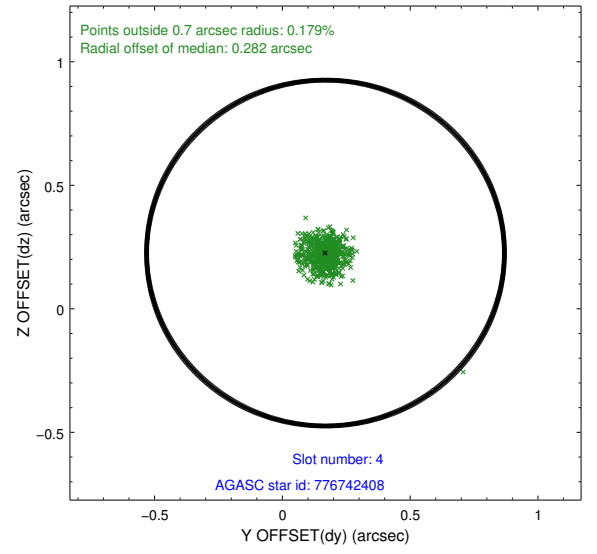
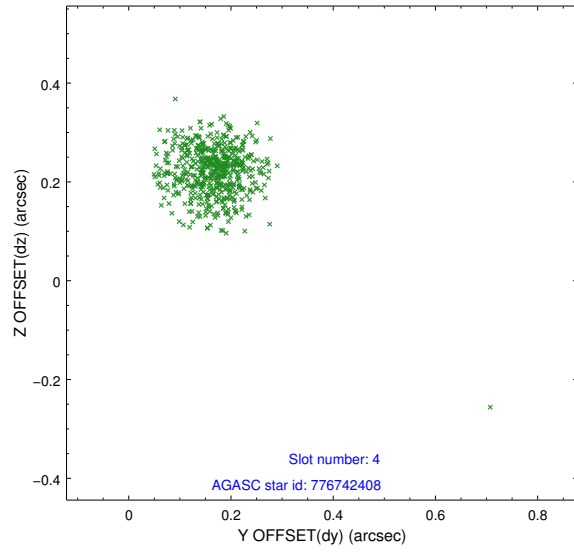


## 2.4 Star Slots

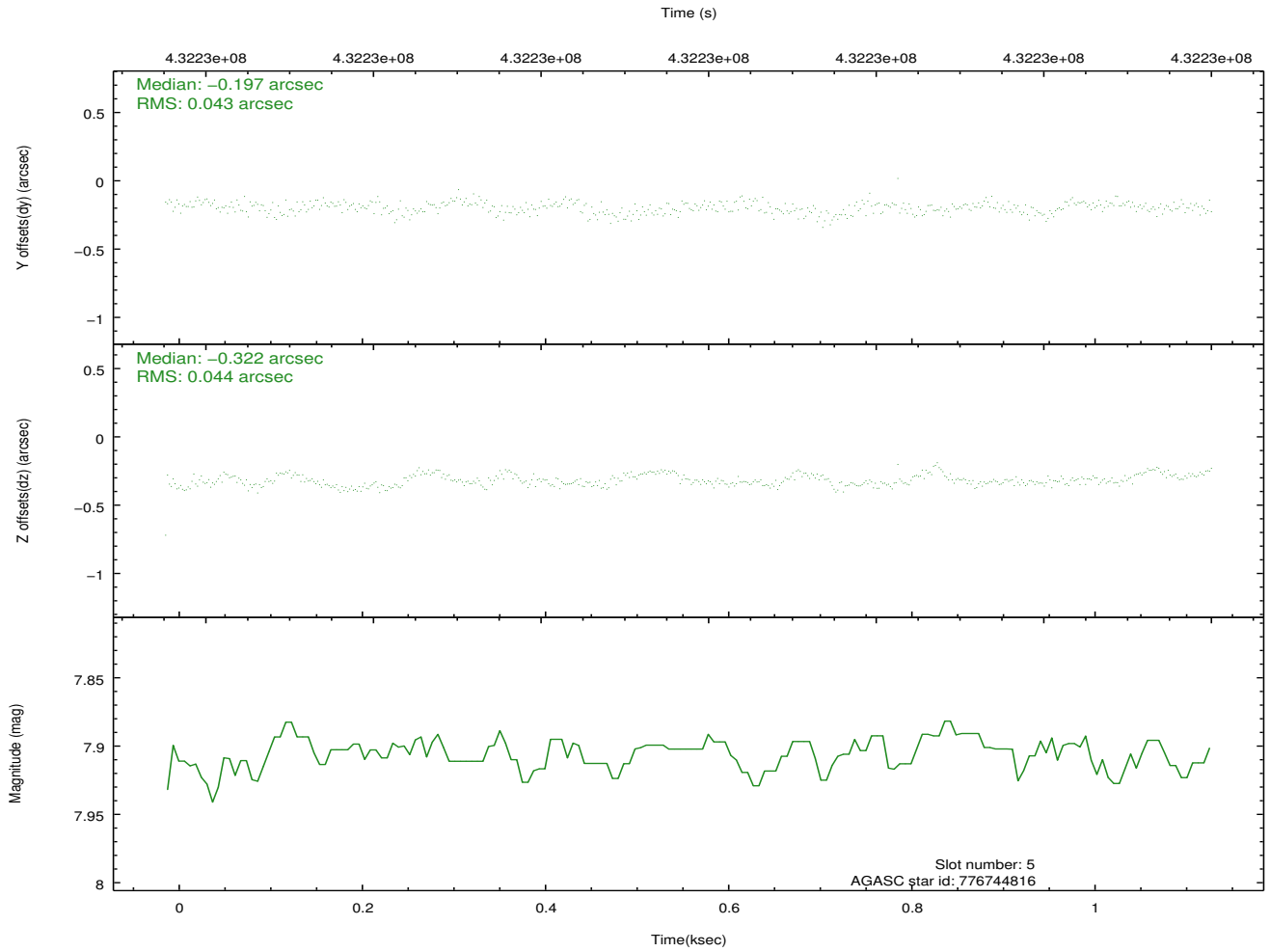
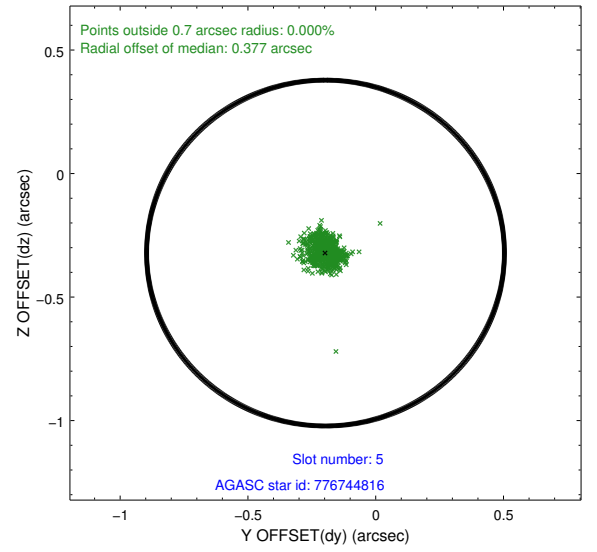
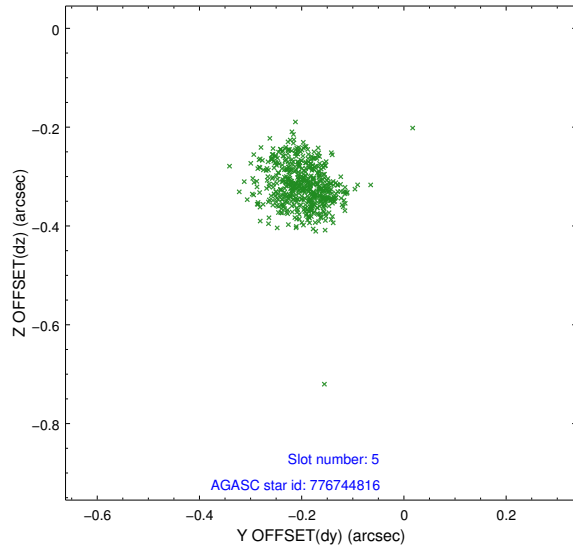
### 2.4.1 Slot 3



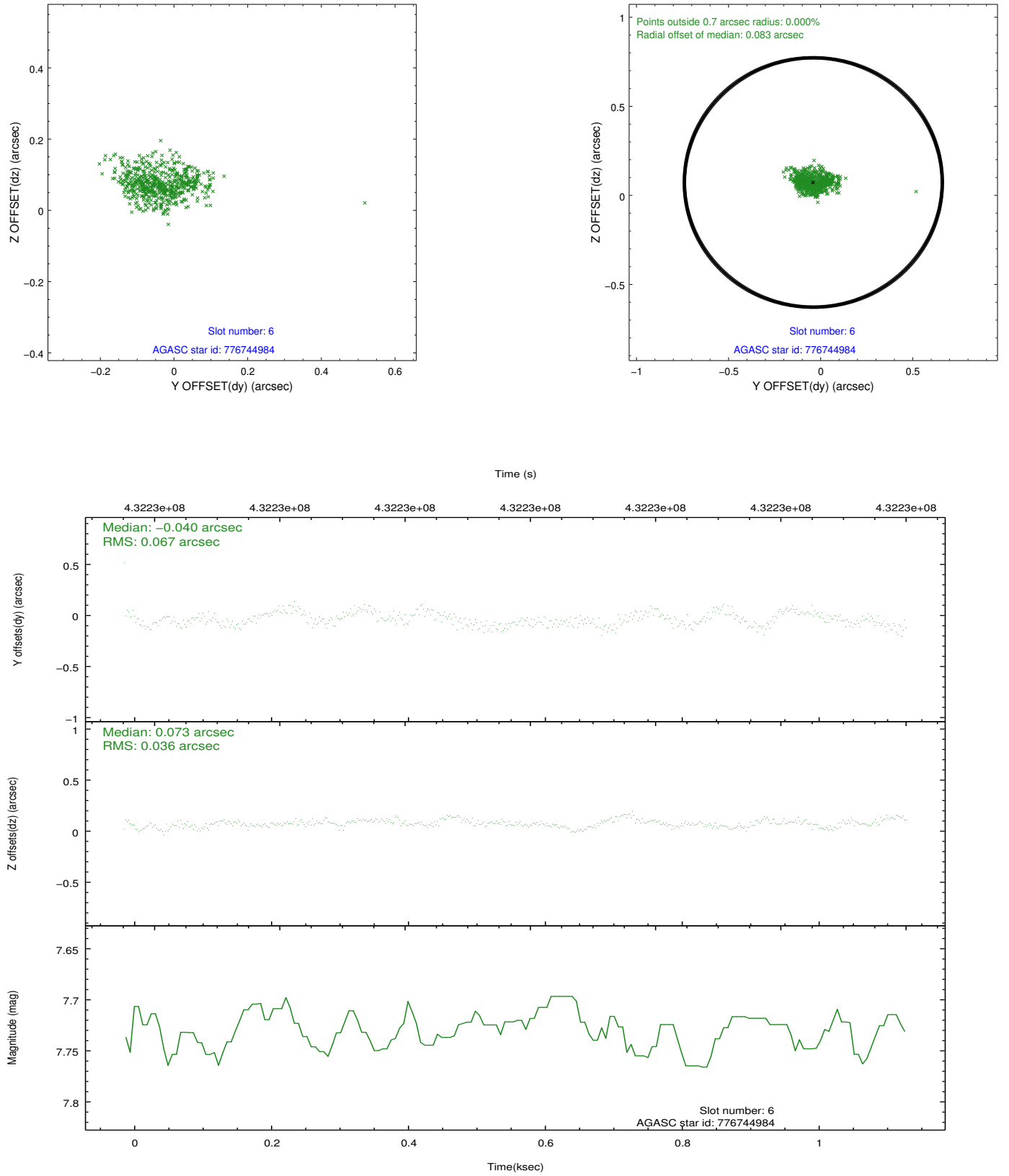
## 2.4.2 Slot 4



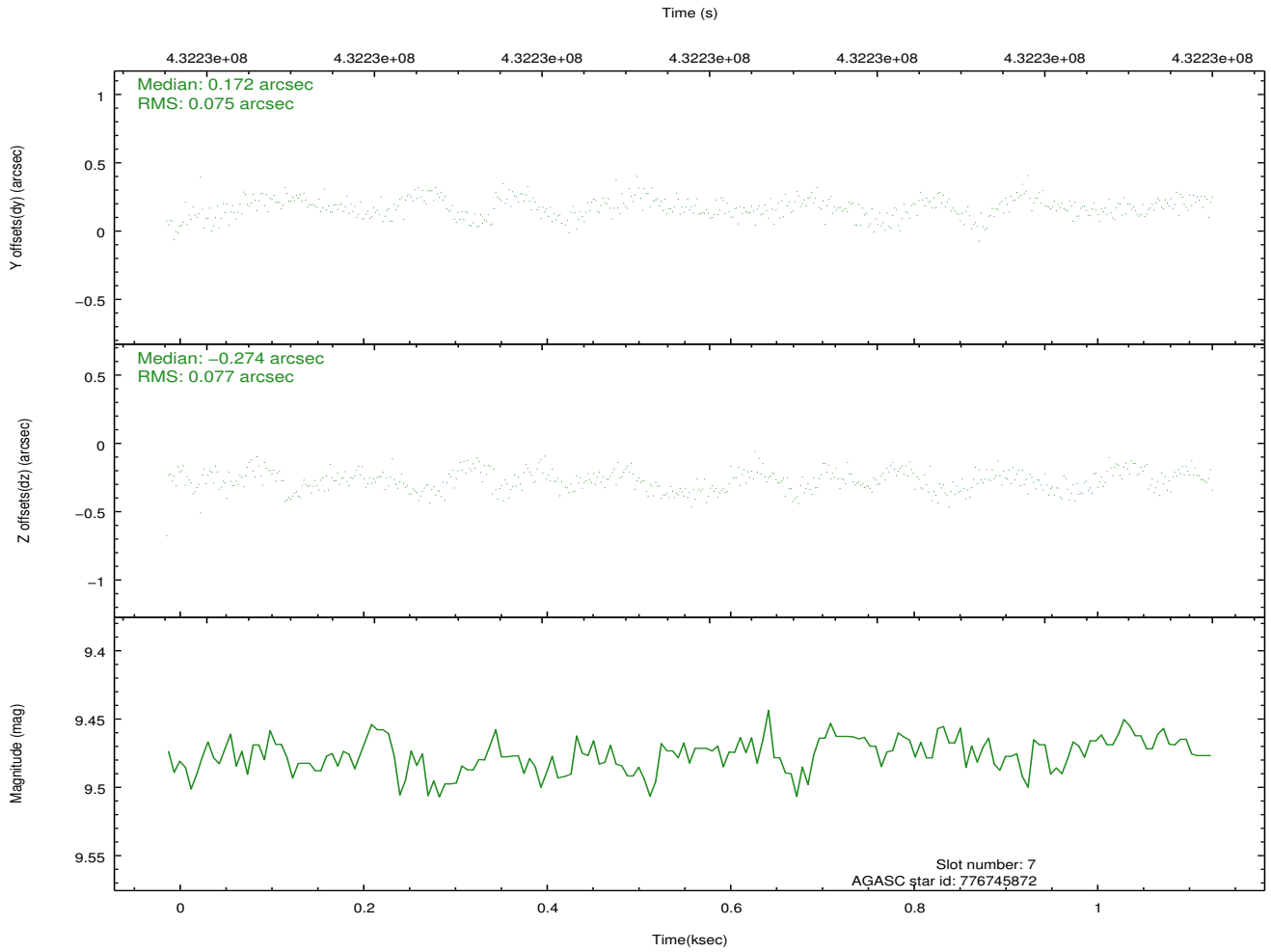
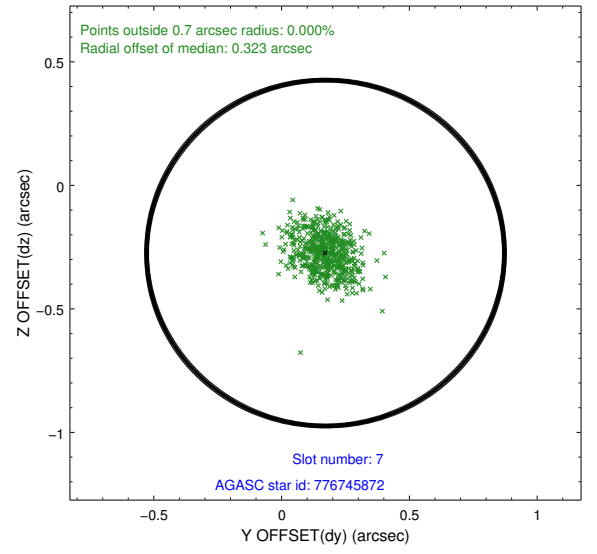
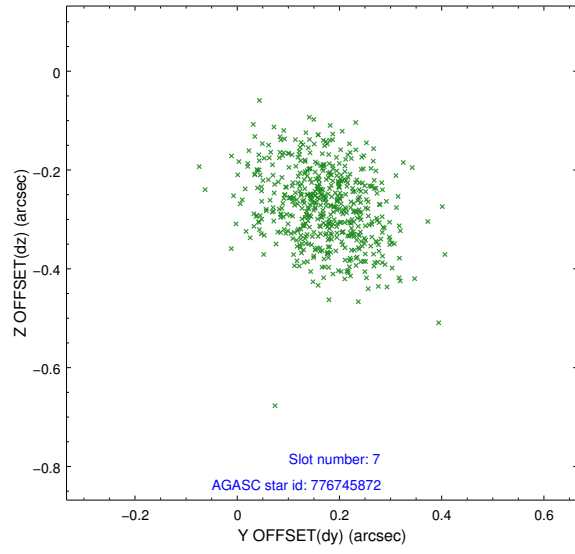
### 2.4.3 Slot 5



## 2.4.4 Slot 6

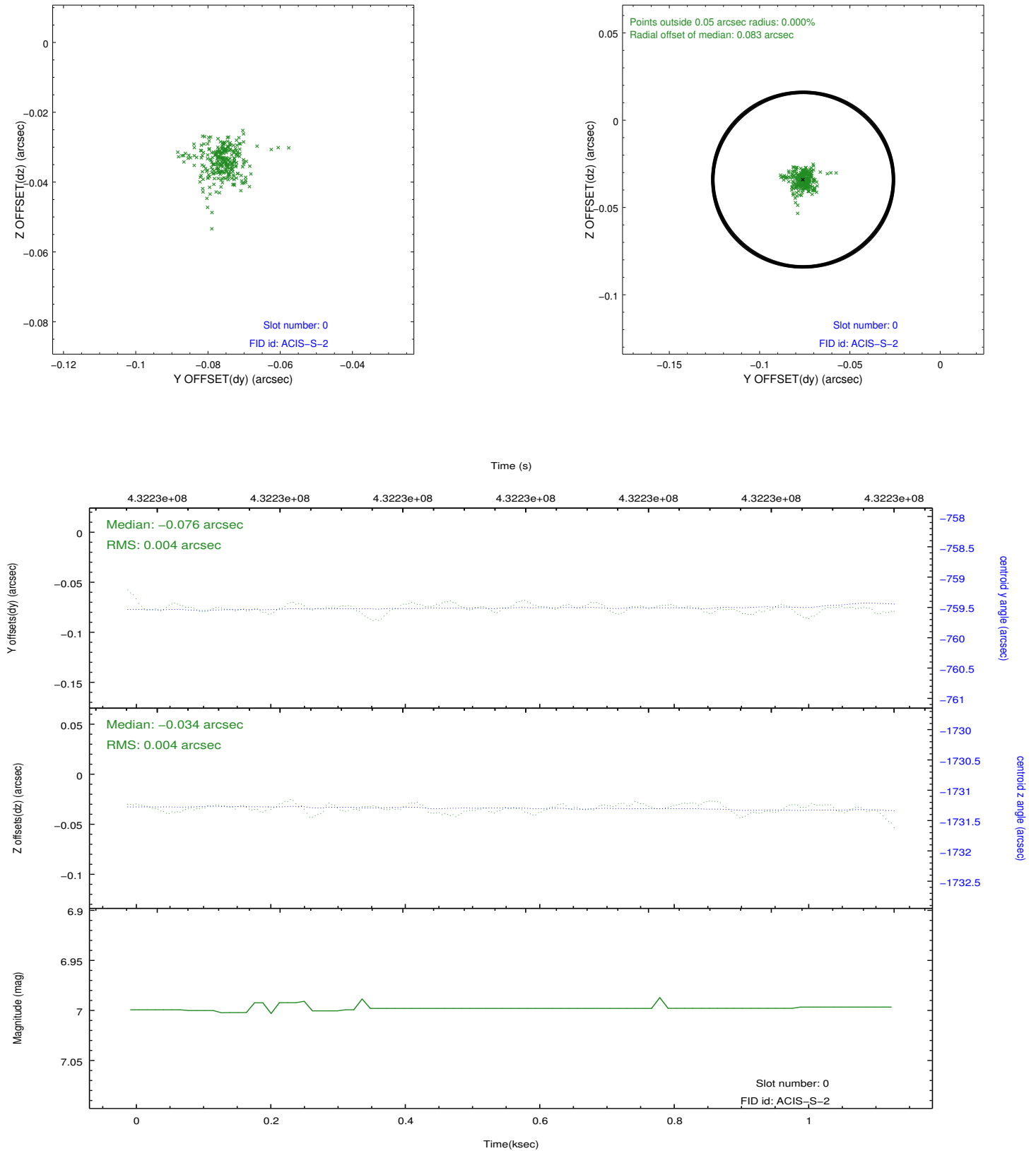


## 2.4.5 Slot 7

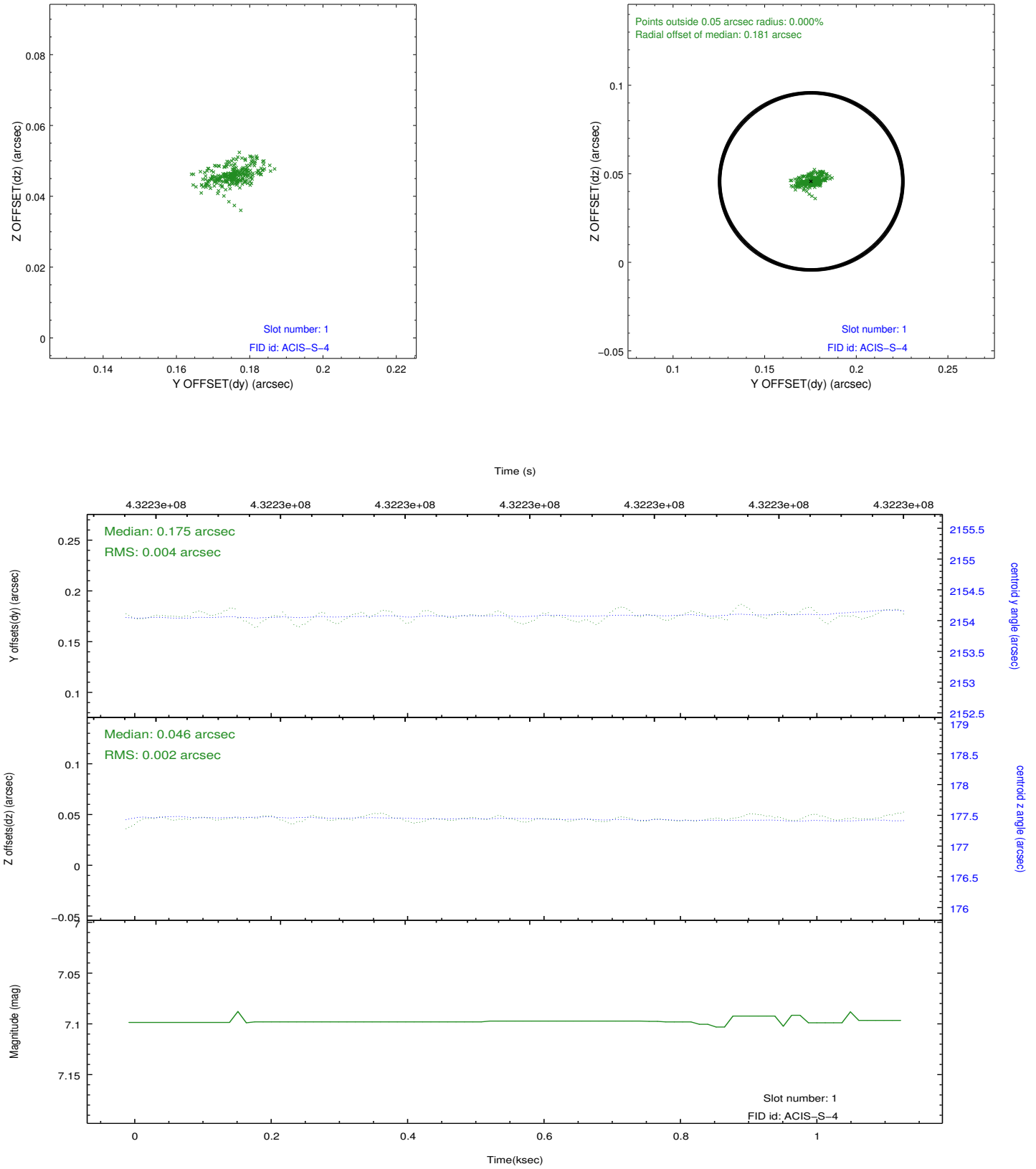


## 2.5 FID Slots

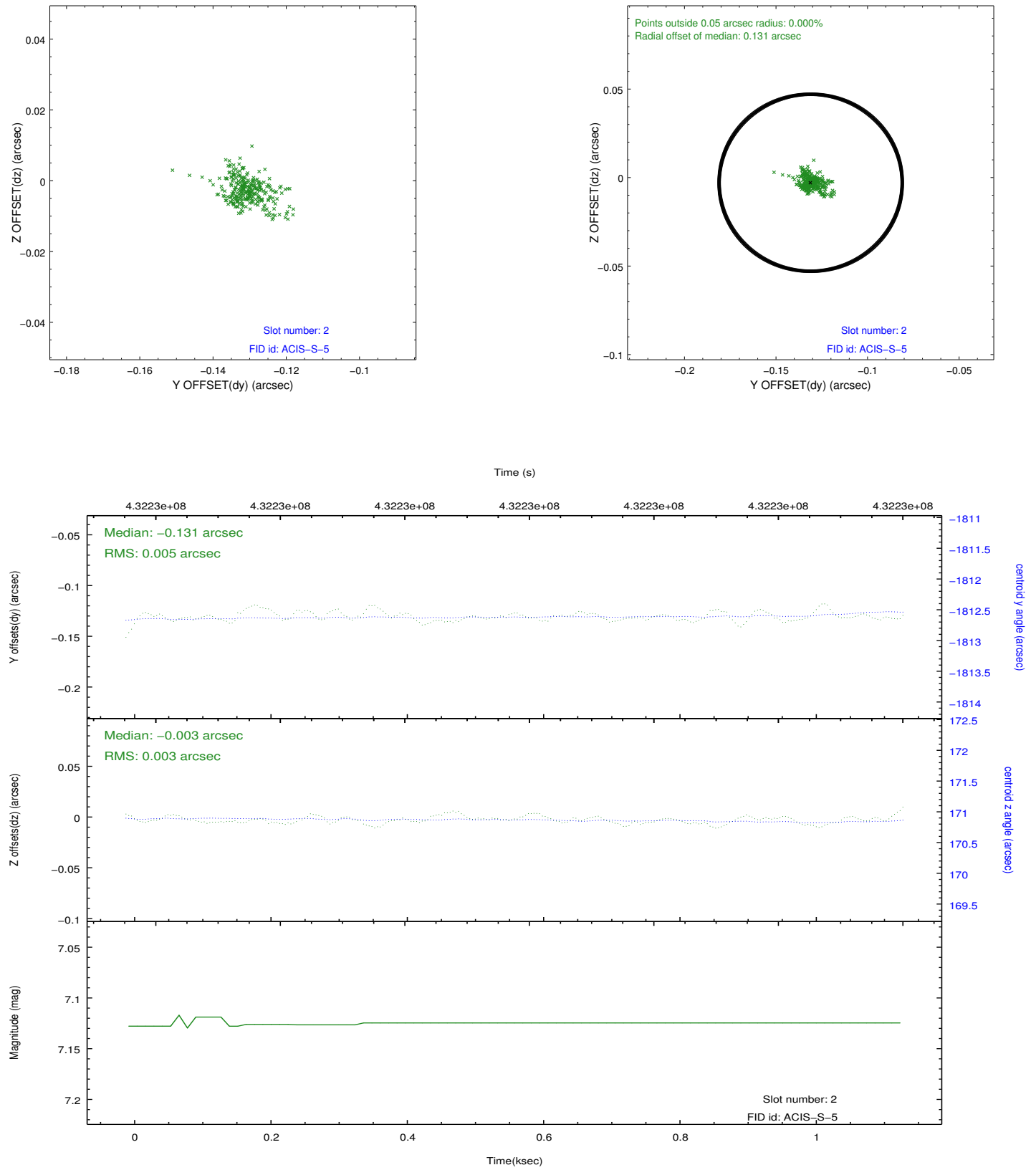
### 2.5.1 Slot 0



## 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)	2012.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.0416000080109

### A.2 Comments