

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8751 - L2 Version 2  
Chandra X-Ray Center

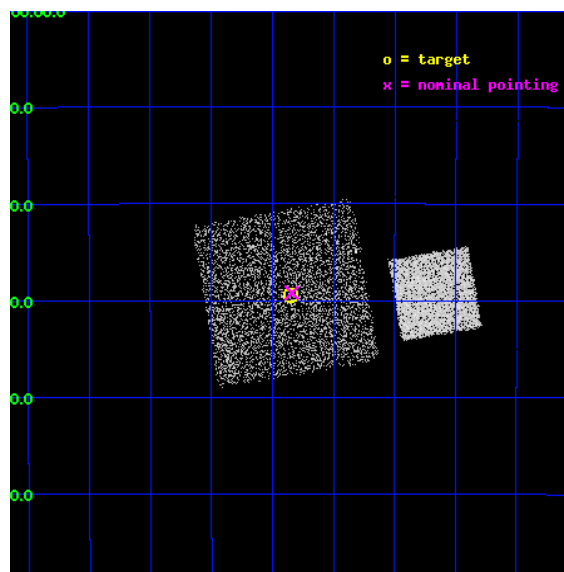
L2 Processing Date : May 14 2012

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# 1 Front

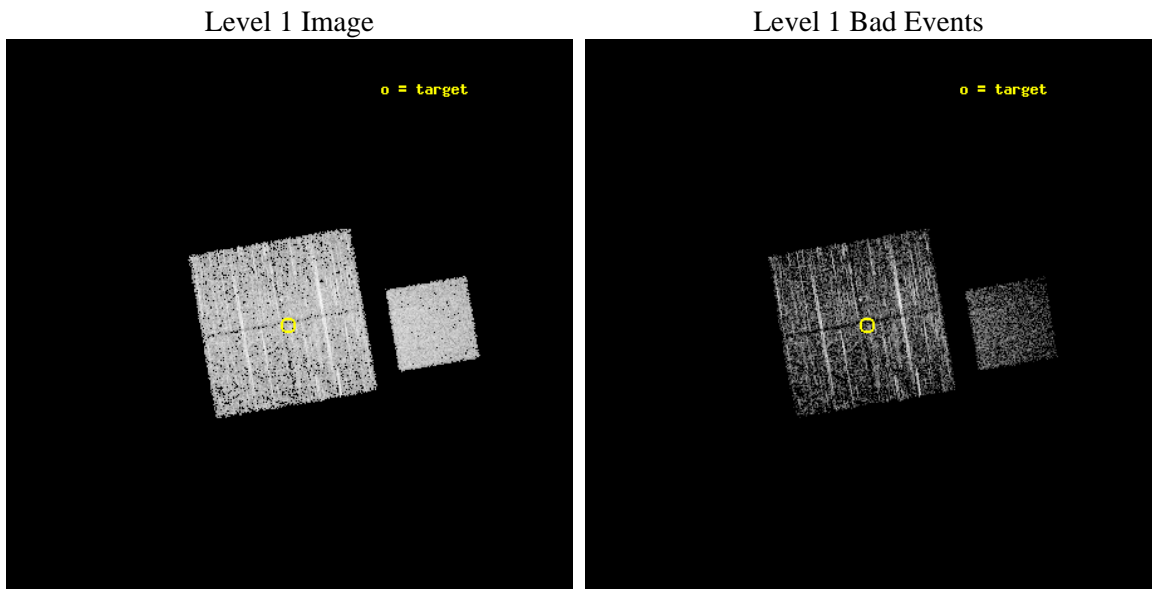
seq_num	400802	Sequence number
obs_id	8751	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.087231	Observer's specified target RA [deg]
dec_targ	-31.491615	Observer's specified target Dec [deg]
ra_nom	266.08518593245	Nominal RA [deg]
dec_nom	-31.486881568625	Nominal Dec [deg]
roll_nom	80.207589258486	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2188.6000168324	Sum of GTIs [s]
livetime	2160.0043463885	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2185.4590265751	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	15069	Number of level 2 events



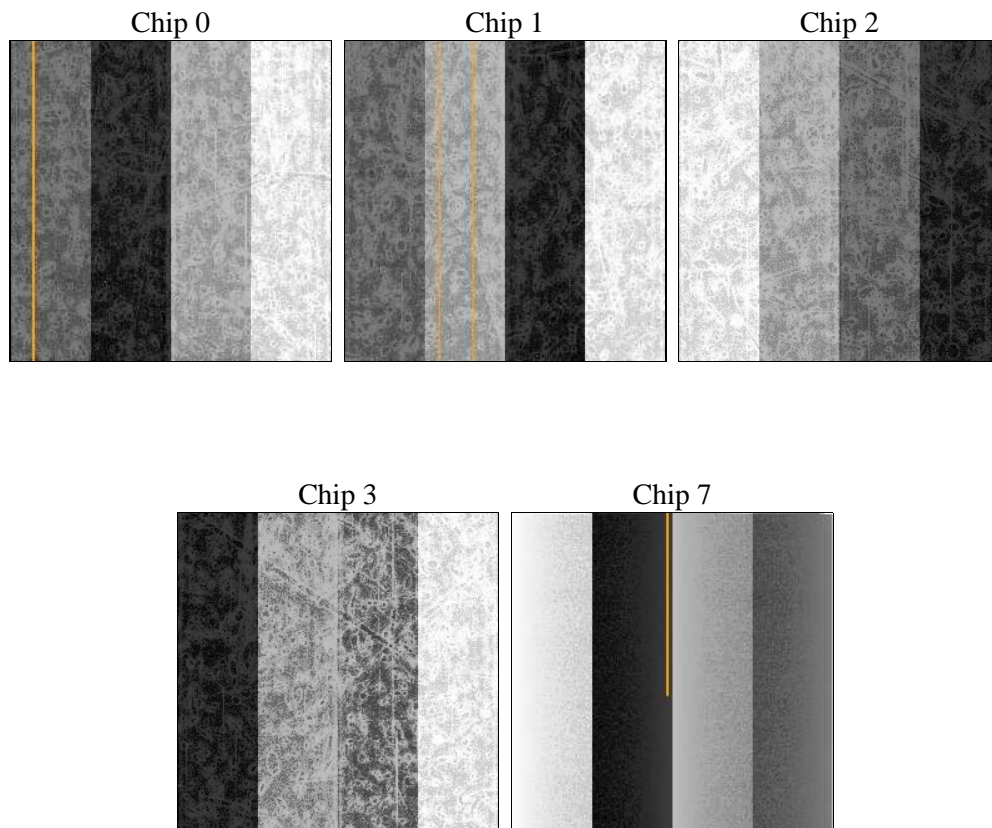
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2188.6000168324	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-14T23:38:18	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.4590265751	Sum of GTIs [s]
			ontime3	2188.6000168324	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	101956	Number of level 1 events

### 2.1.4 Events

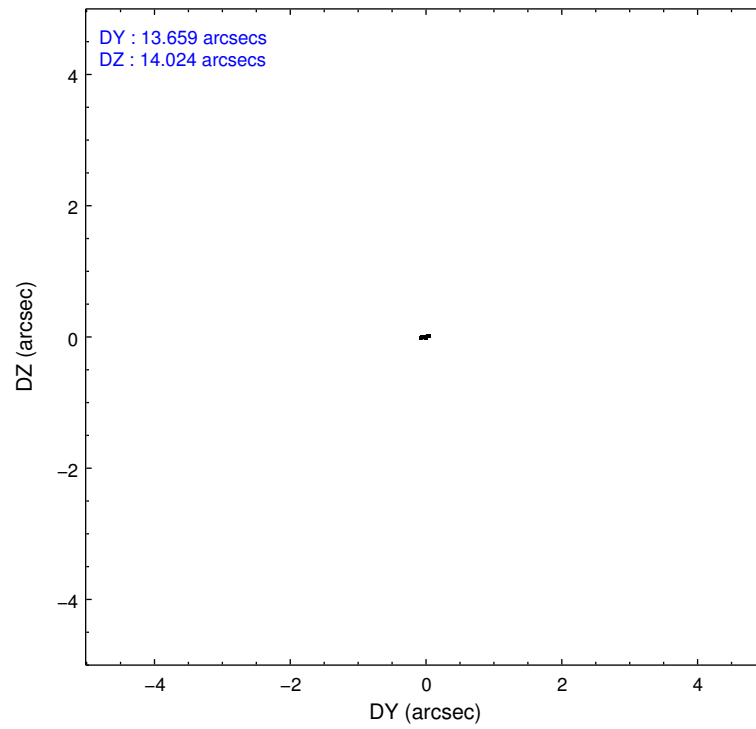
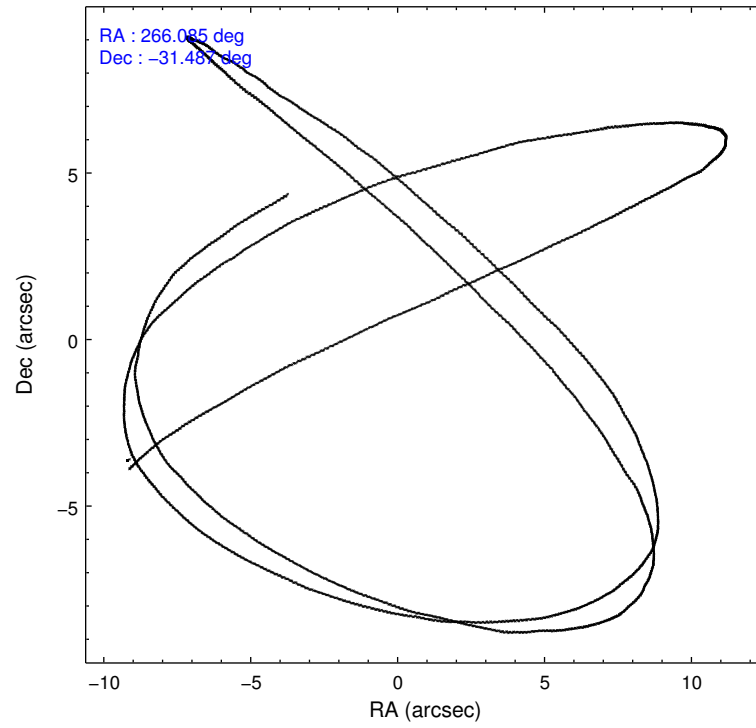
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	20265	17249	21528	20641	22273
rejected events	18354	15181	19678	18853	13271
rejected %	90%	88%	91%	91%	59%

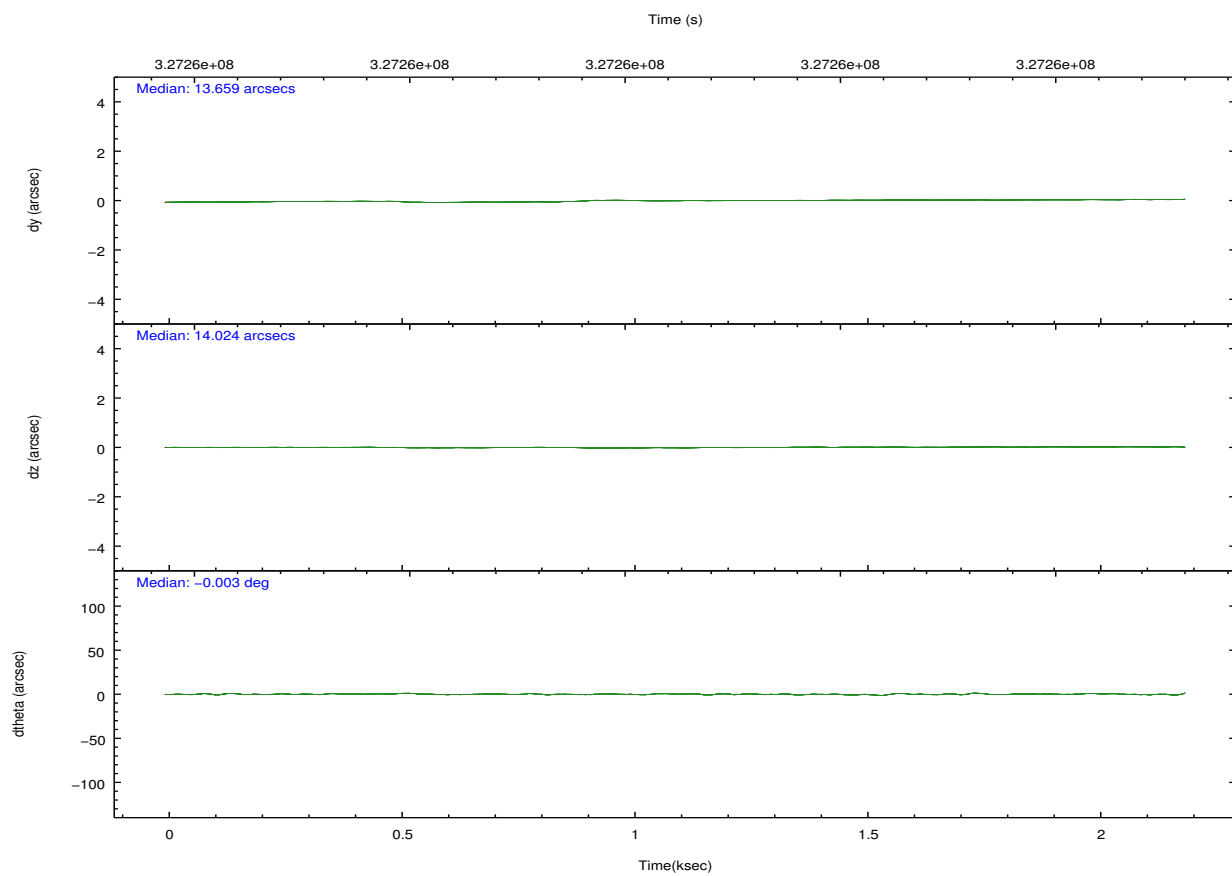
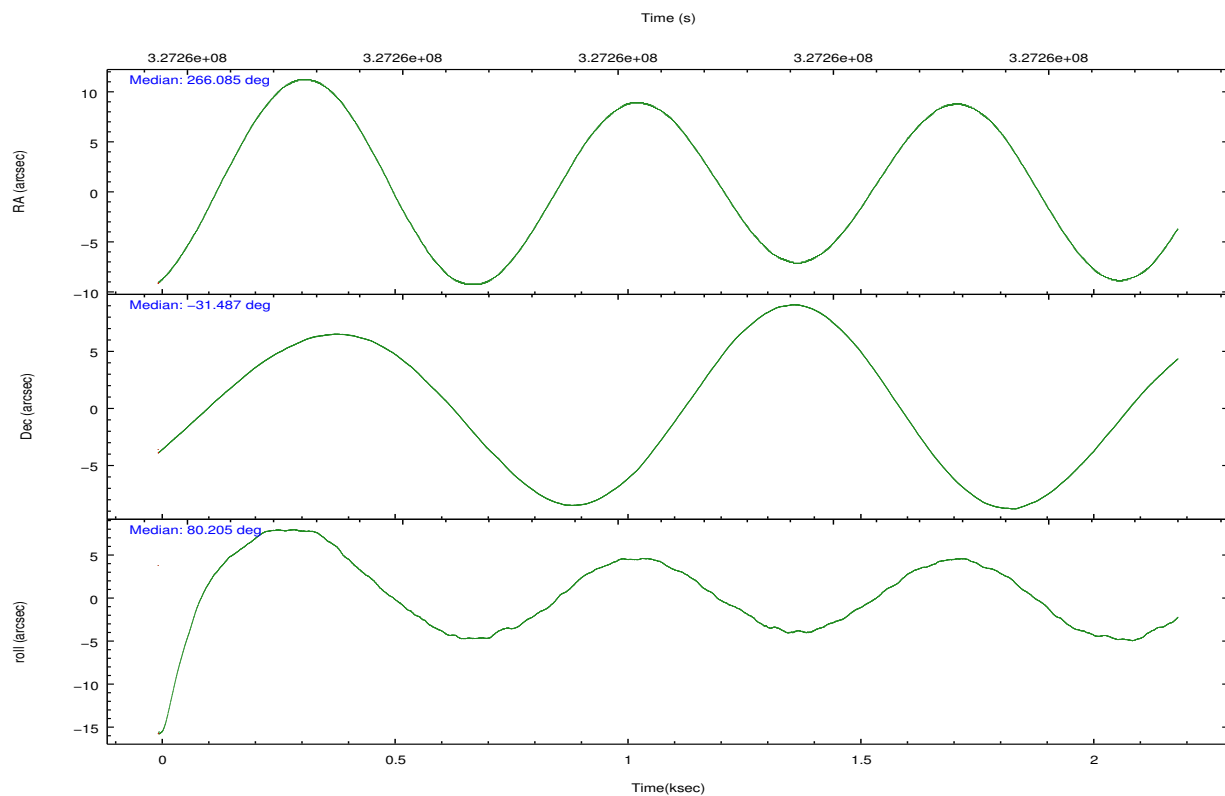
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	851	930	848	786	973
	4%	5%	3%	3%	4%
grade 1 events	9	9	15	16	32
	0%	0%	0%	0%	0%
grade 2 events	500	505	486	396	2086
	2%	2%	2%	1%	9%
grade 3 events	227	252	226	222	1018
	1%	1%	1%	1%	4%
grade 4 events	227	232	211	210	924
	1%	1%	0%	1%	4%
grade 5 events	724	741	636	795	2357
	3%	4%	2%	3%	10%
grade 6 events	364	458	334	420	5296
	1%	2%	1%	2%	23%
grade 7 events	17363	14122	18772	17796	9587
	85%	81%	87%	86%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	266.096578	266.0851859324451	CCD I2 on	Y	Y
[deg] Pointing Dec	-31.512646	-31.48688156862542	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004887	80.20758925848604	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327262709.184000	327262333.34792	CCD S5 on	N	N
Observation start date	2008-05-15T18:17:24	2008-05-15T18:12:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327264709.184000	327264843.57304	On-chip summing requested	N	N
Observation end date	2008-05-15T18:50:44	2008-05-15T18:54:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





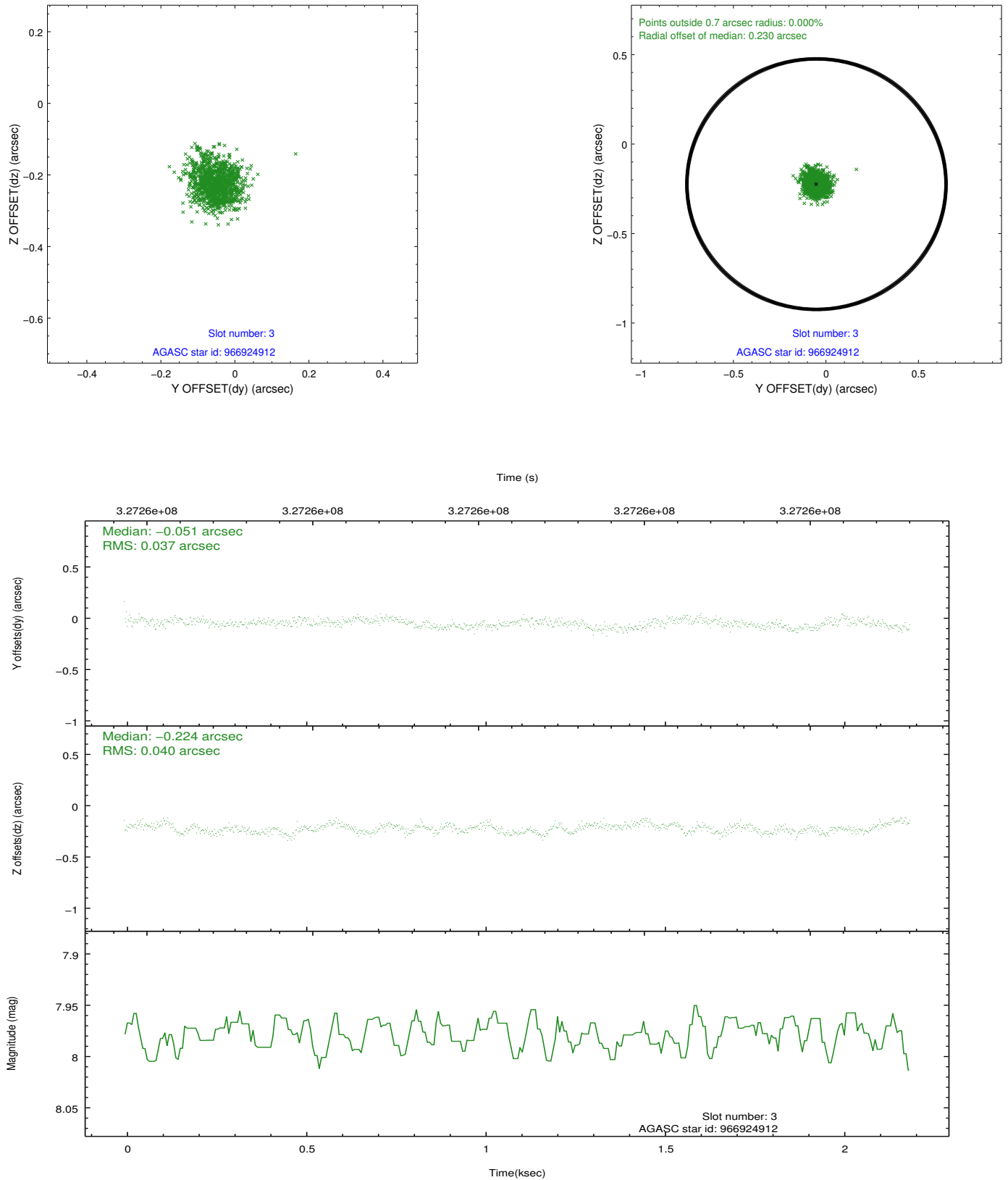
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	535	0.016	0.039	0.006	0.011	0.000000	0.000000	925.88	-837.55
1	FID	ACIS-I-5	7.02	535	-0.194	0.034	0.006	0.010	0.000000	0.000000	-1820.82	1058.41
2	FID	ACIS-I-6	7.04	535	0.087	-0.002	0.006	0.010	0.000000	0.000000	388.22	1706.28
3	GUIDE	966924912	7.98	1069	-0.051	-0.224	0.058	0.094	266.020014	-31.275150	801.24	379.97
4	GUIDE	966925512	8.27	1069	-0.203	0.109	0.054	0.087	266.373606	-31.056700	1764.44	-556.35
5	GUIDE	966925632	8.94	1067	-0.014	0.126	0.070	0.115	266.388610	-30.982191	2037.45	-556.86
6	GUIDE	967445088	9.04	1069	0.246	-0.023	0.072	0.126	265.761342	-32.072953	-2163.19	655.78
7	GUIDE	967447552	8.75	1068	0.019	0.014	0.063	0.103	265.515186	-32.048669	-2214.79	1411.74

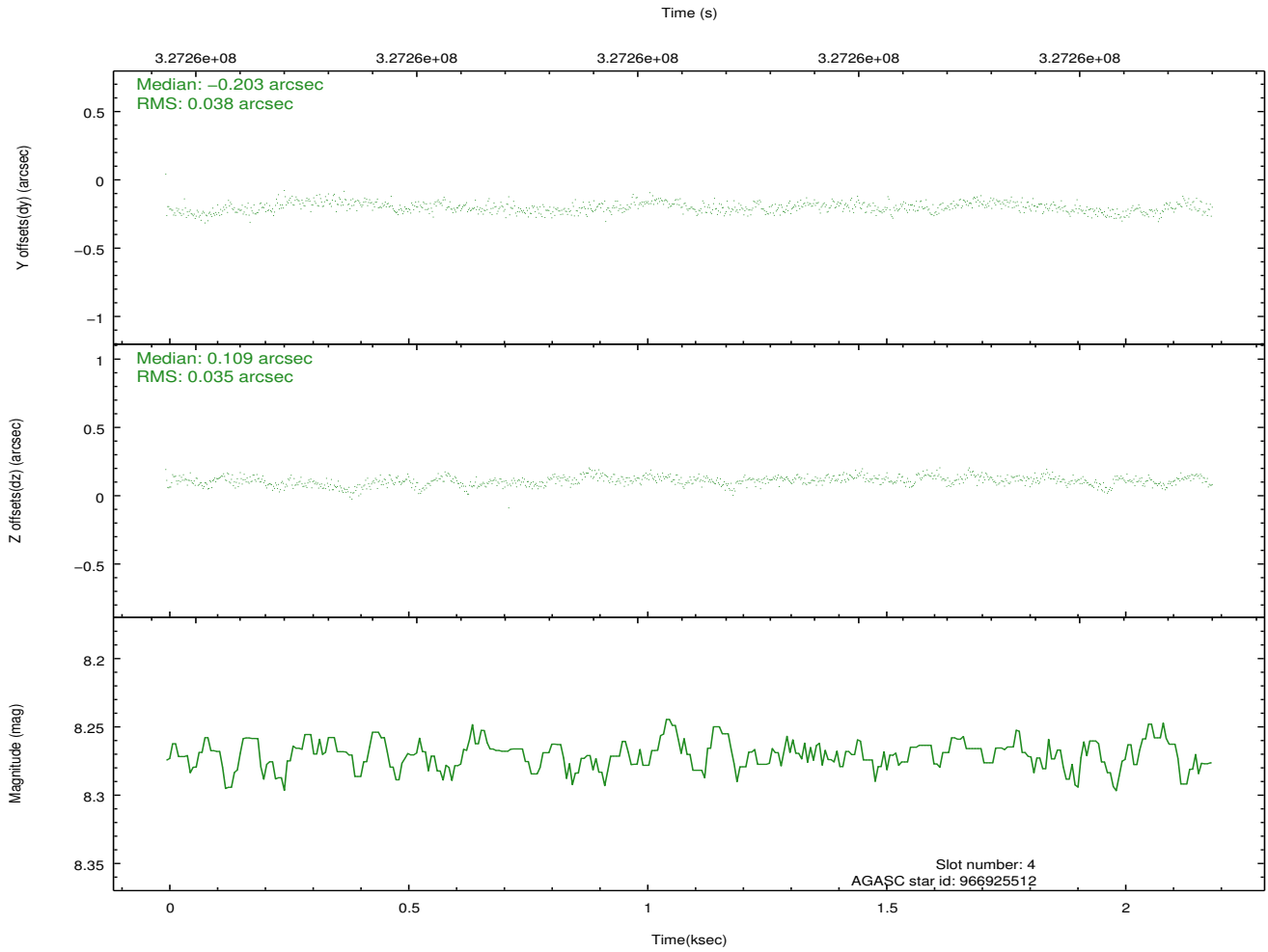
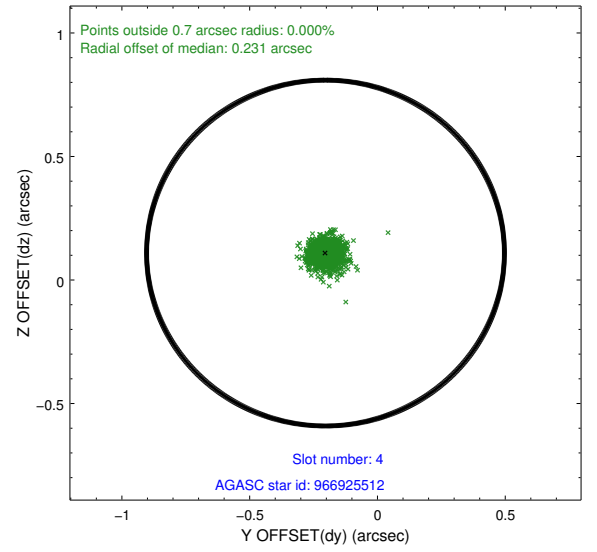
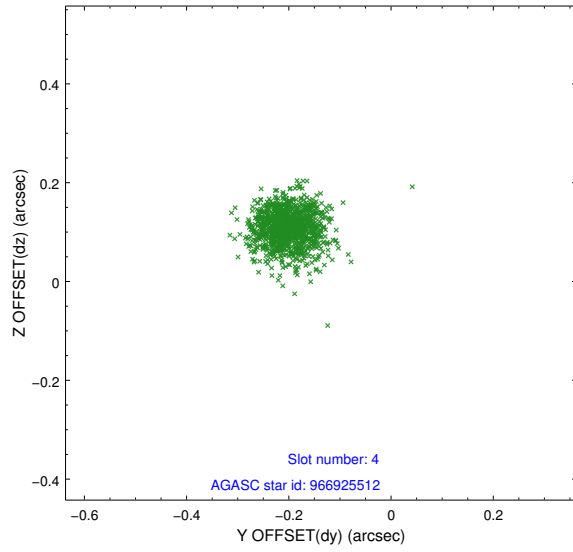


## 2.4 Star Slots

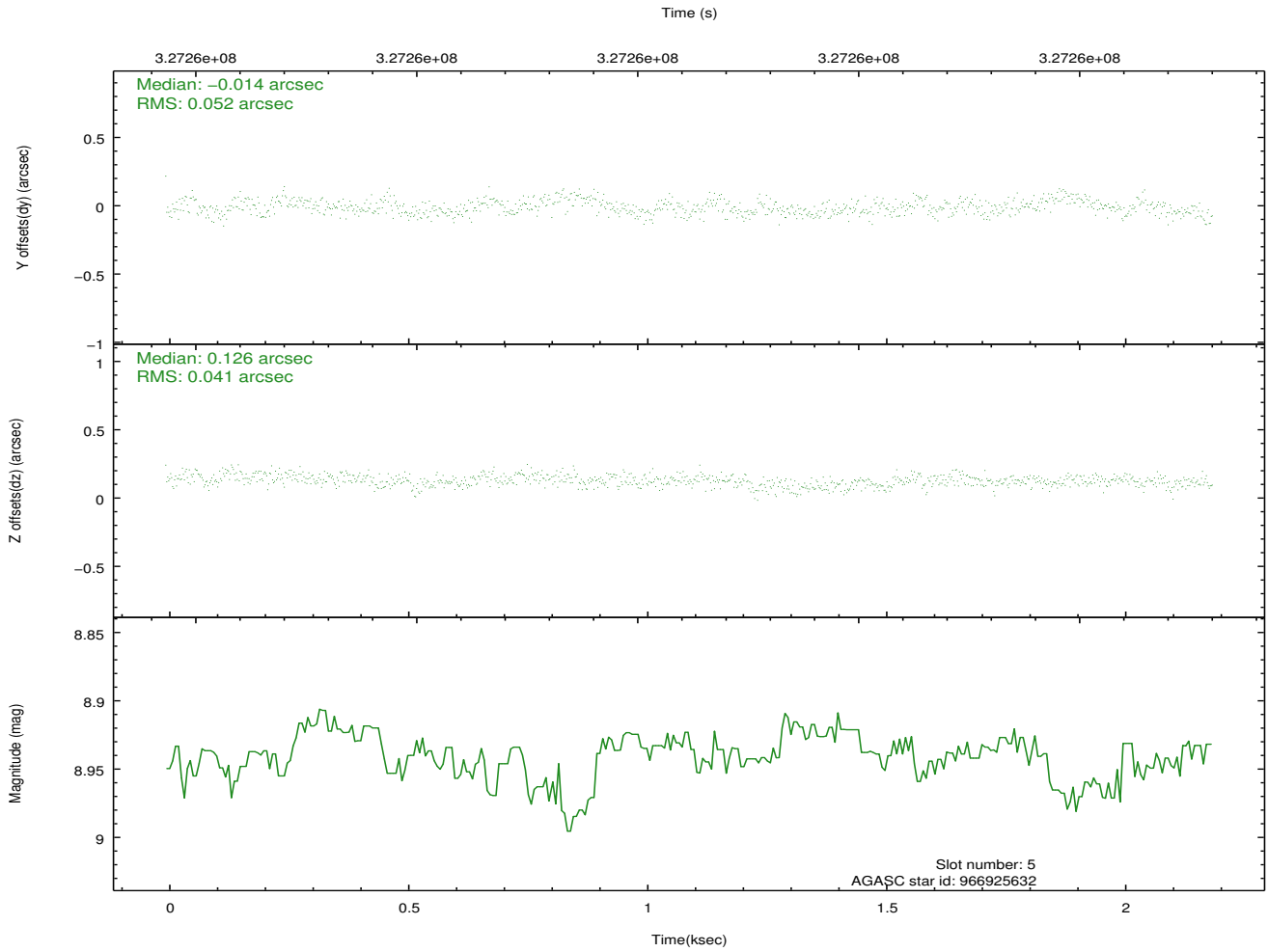
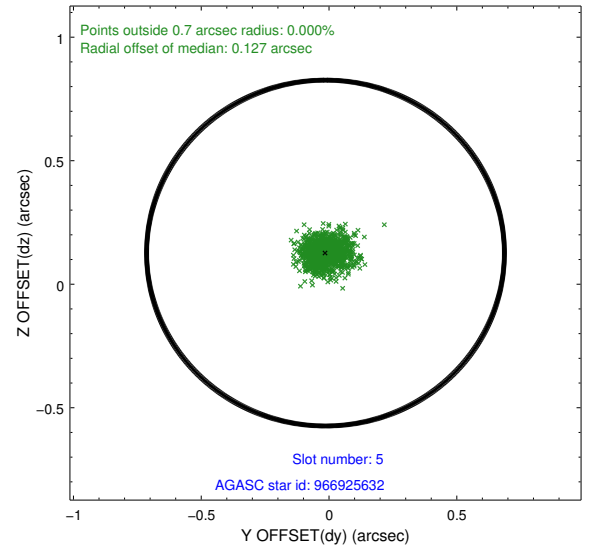
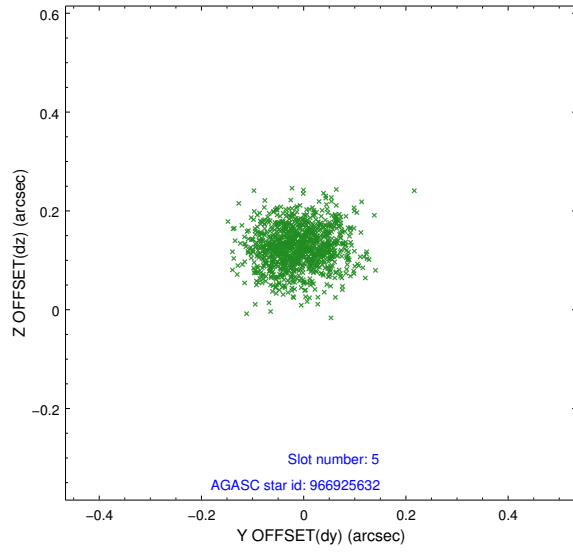
### 2.4.1 Slot 3



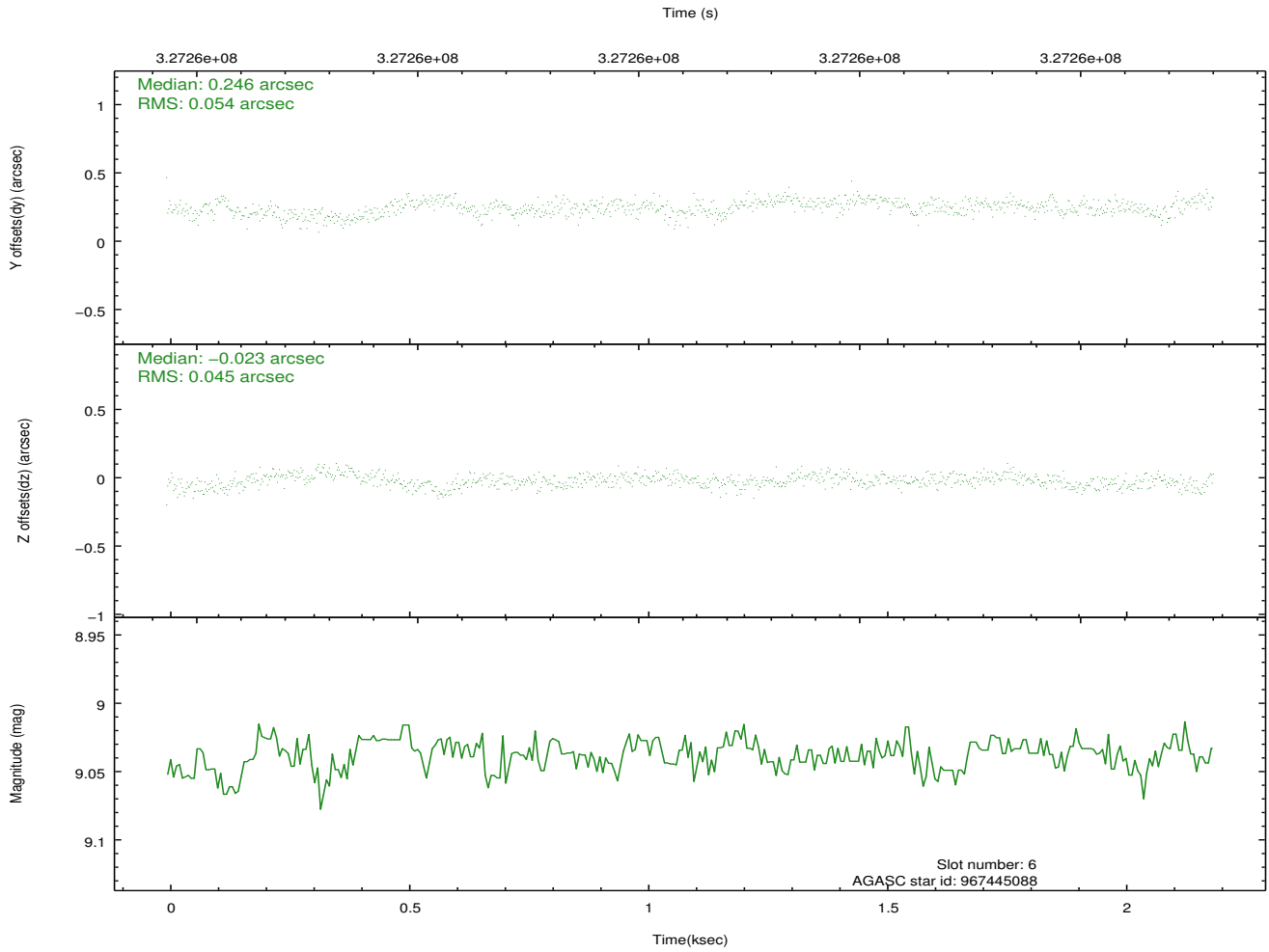
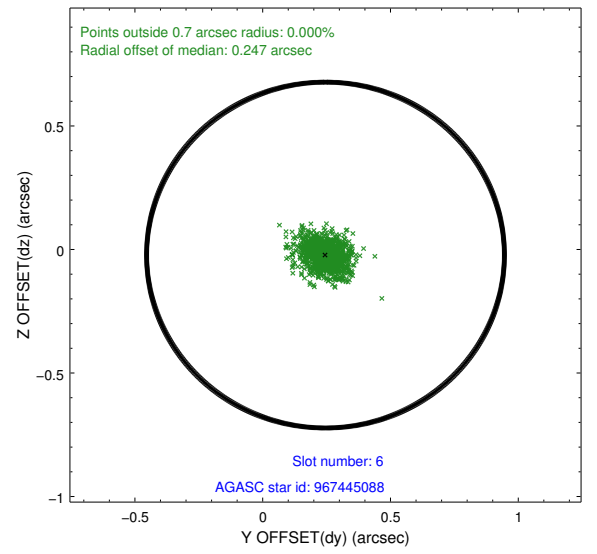
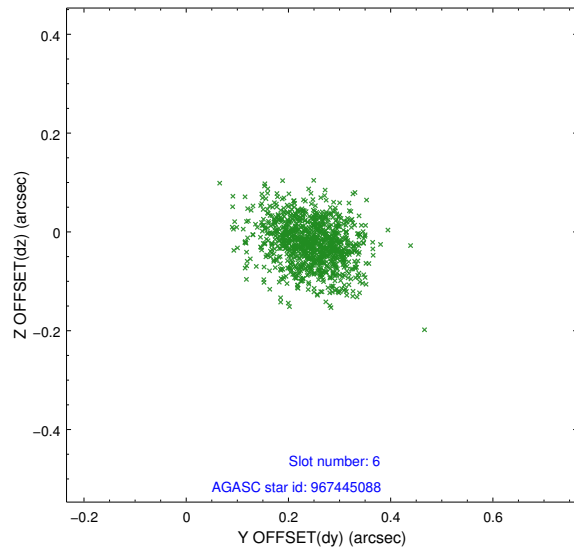
## 2.4.2 Slot 4



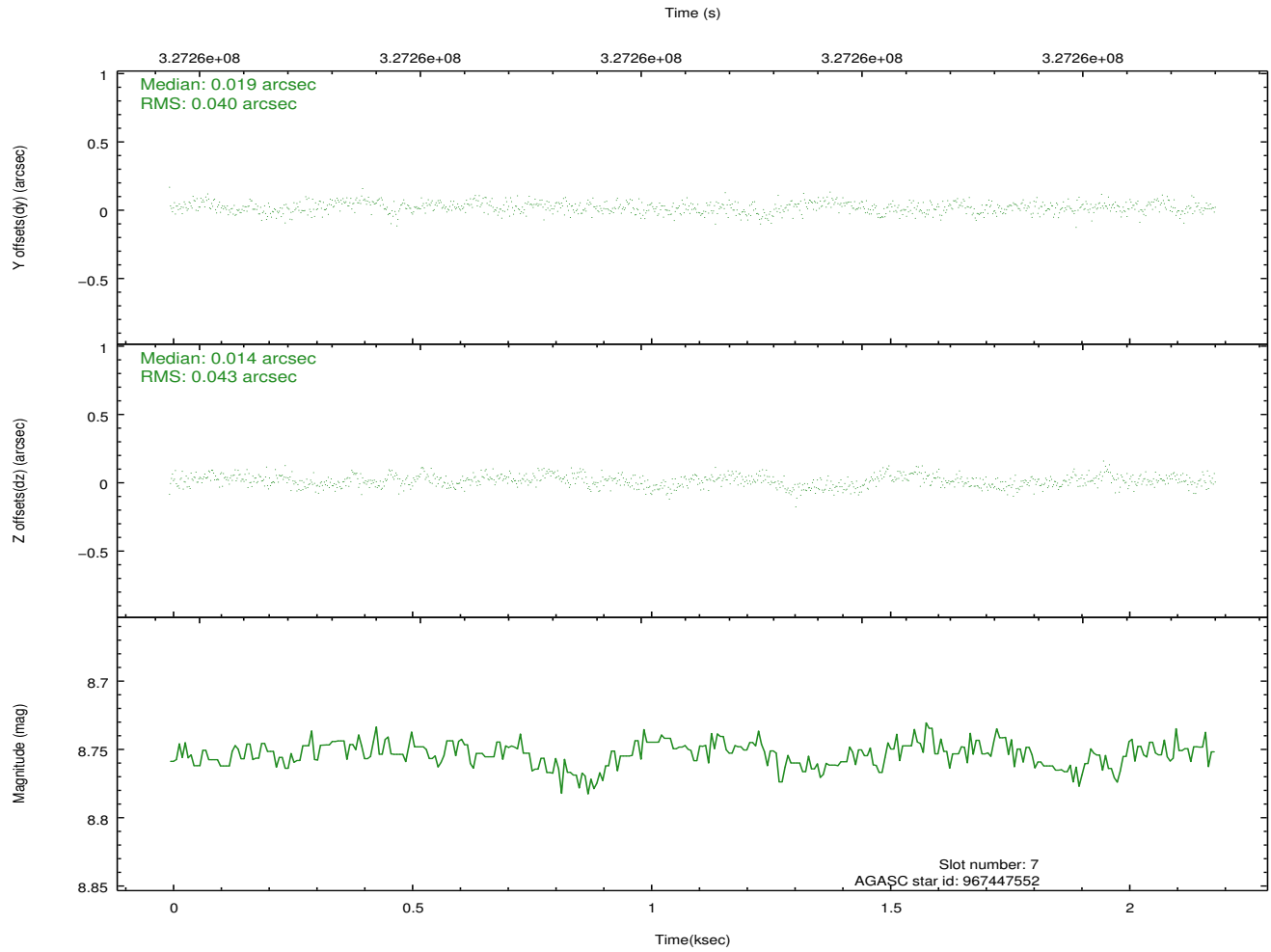
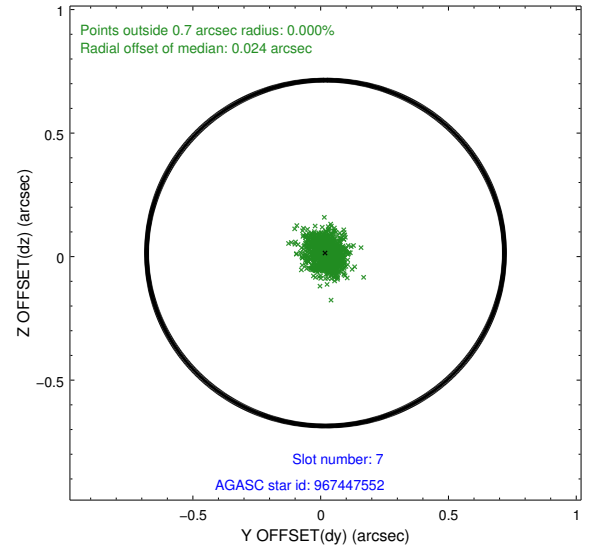
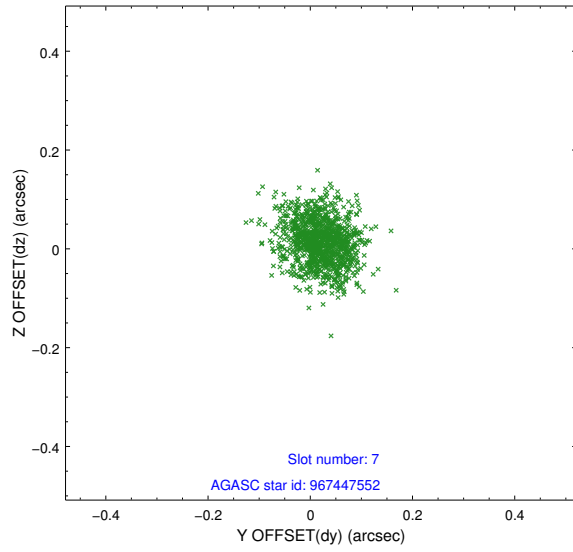
### 2.4.3 Slot 5



## 2.4.4 Slot 6

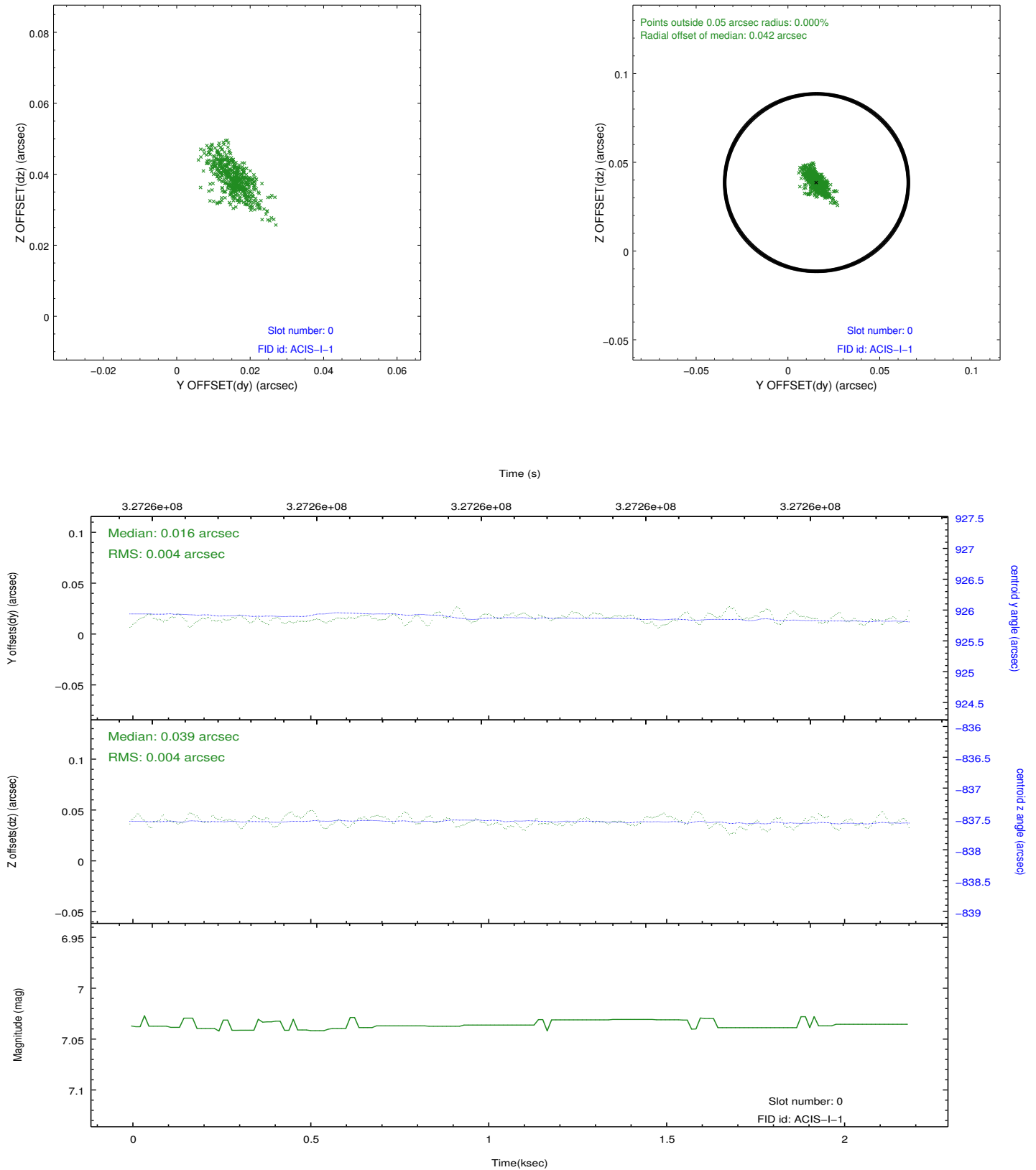


## 2.4.5 Slot 7

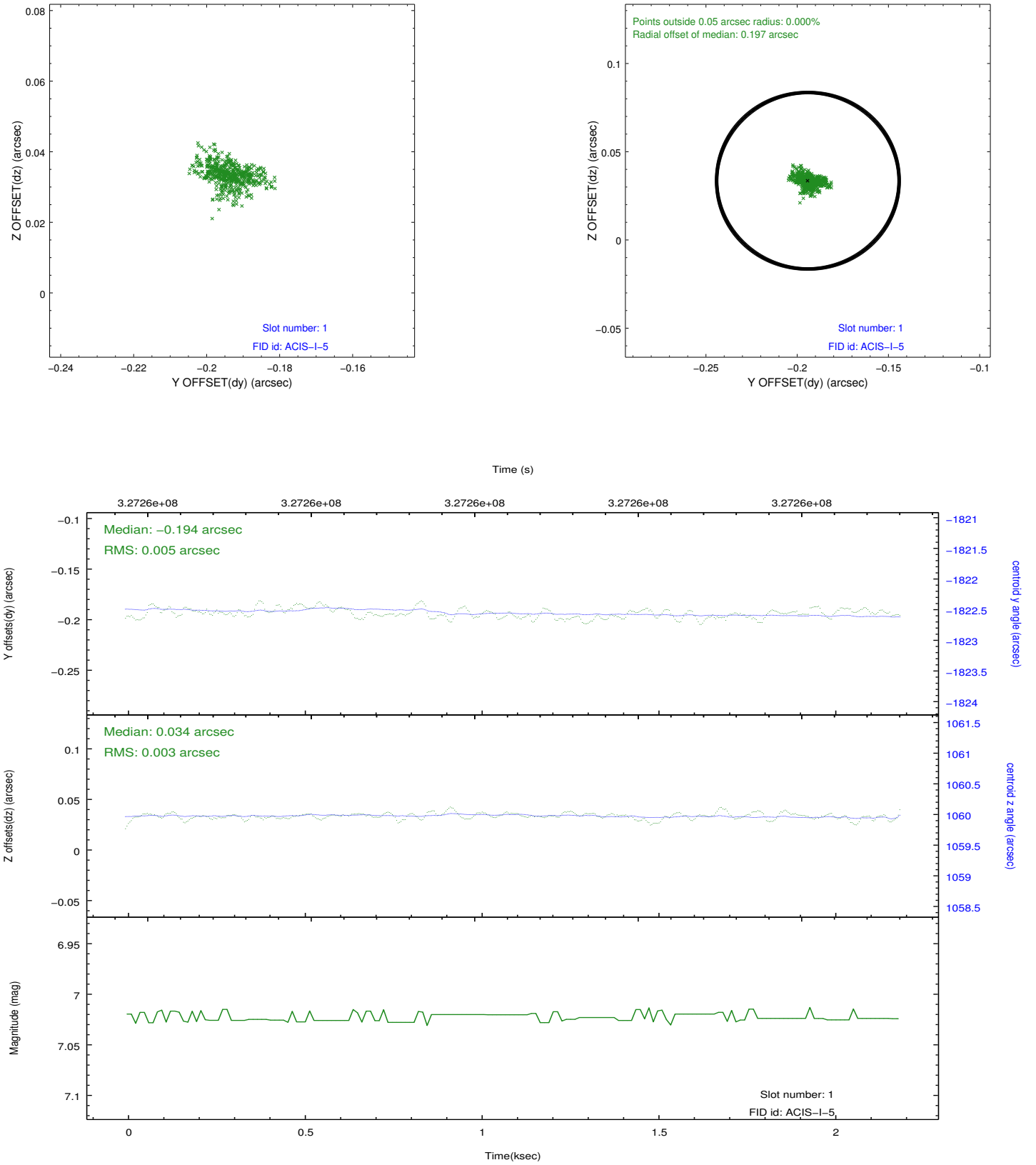


## 2.5 FID Slots

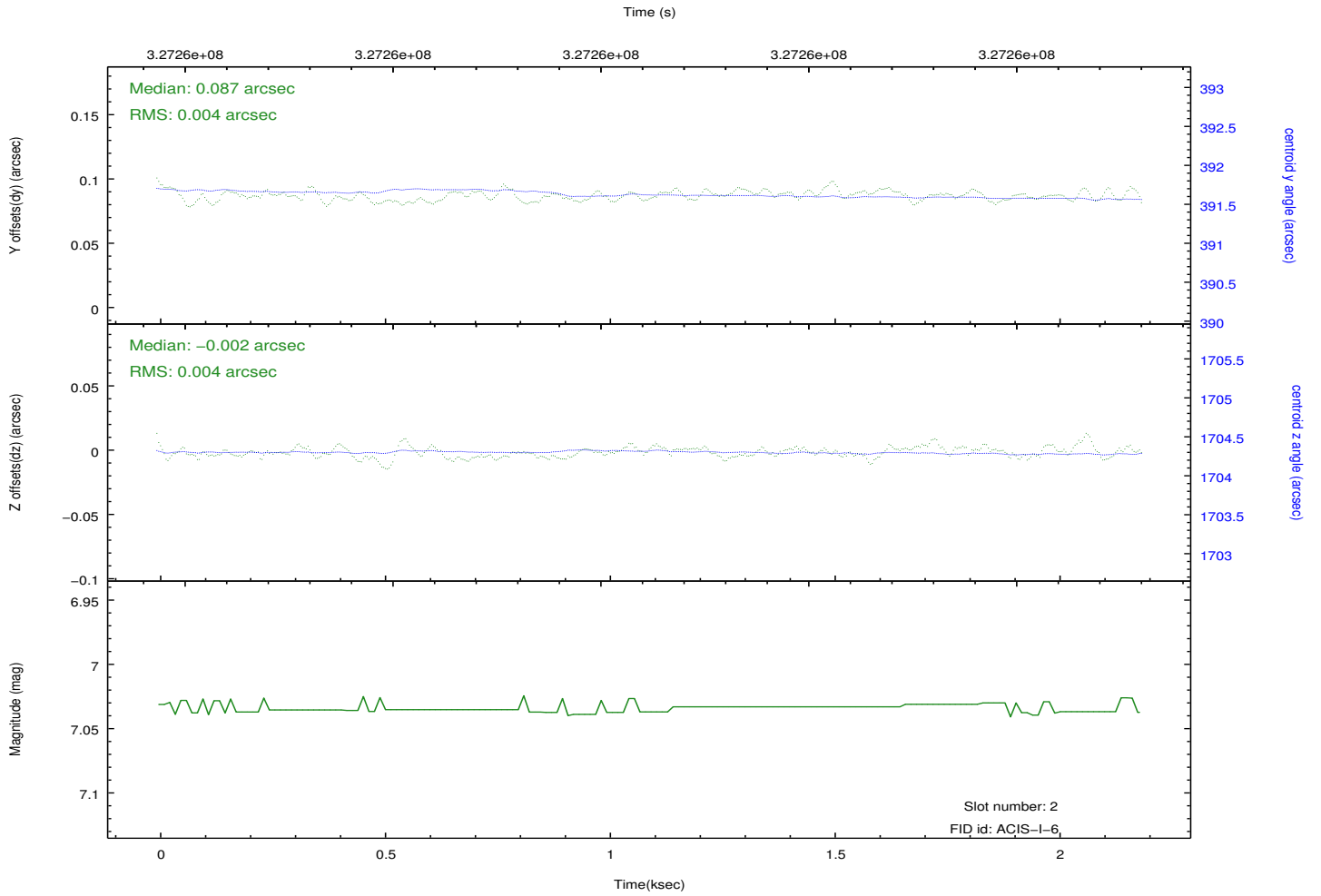
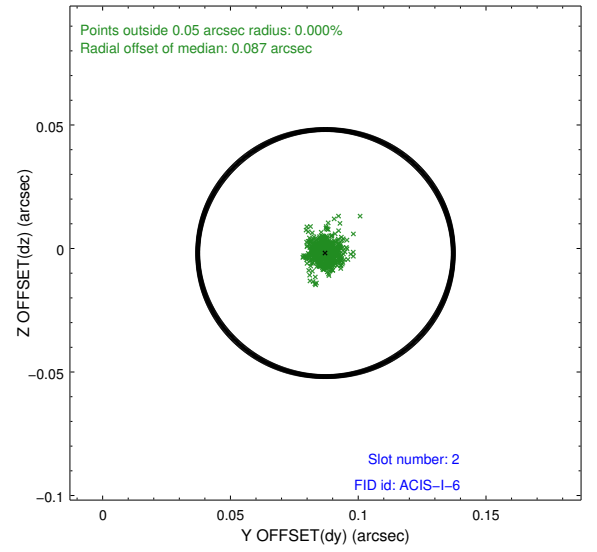
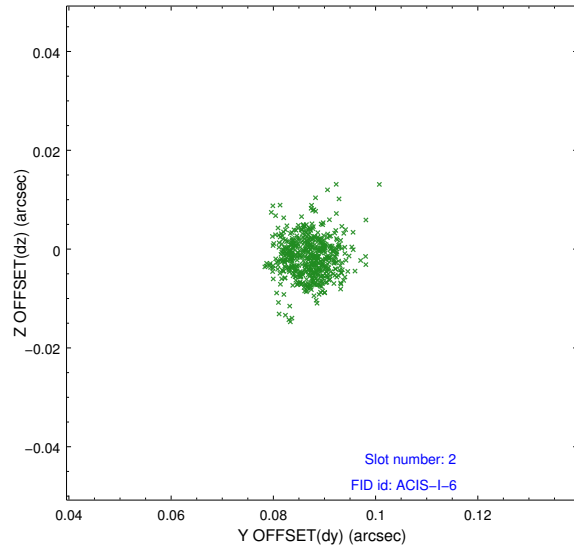
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18860001

## A.2 Comments

Joint proposal with NOAO.