

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8736 - L2 Version 2  
Chandra X-Ray Center

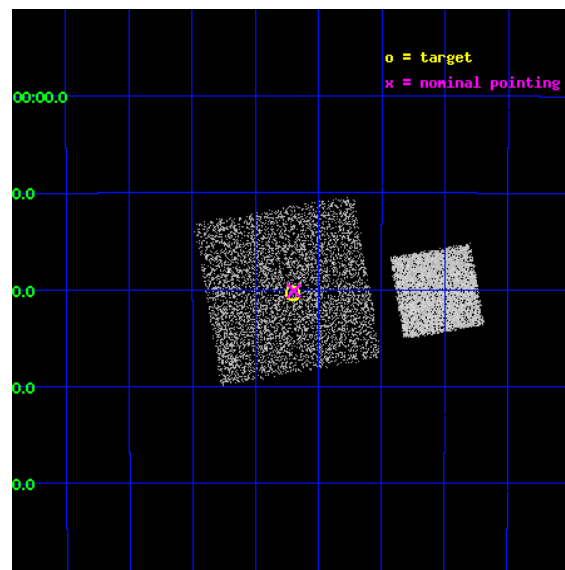
L2 Processing Date : May 14 2012

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# 1 Front

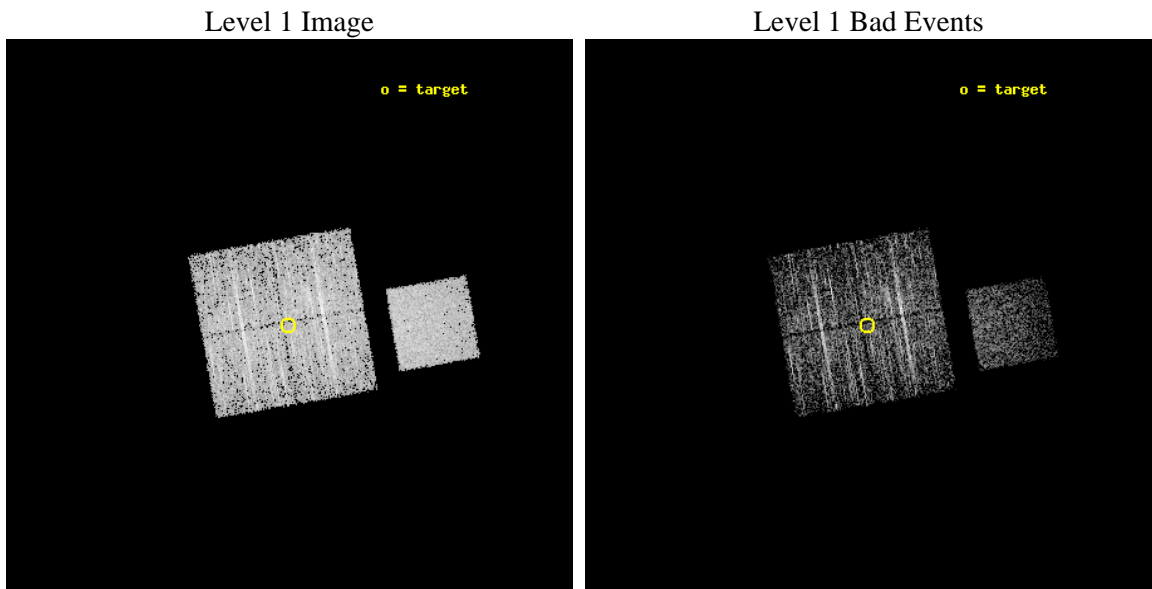
seq_num	400787	Sequence number
obs_id	8736	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.800793	Observer's specified target RA [deg]
dec_targ	-28.340086	Observer's specified target Dec [deg]
ra_nom	268.79883094283	Nominal RA [deg]
dec_nom	-28.335514778996	Nominal Dec [deg]
roll_nom	80.207785602308	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.4000167847	Sum of GTIs [s]
livetime	2153.8853539059	Livetime [s]
ontime0	2182.4000167847	Sum of GTIs [s]
ontime1	2182.4000167847	Sum of GTIs [s]
ontime2	2179.2591059208	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	16298	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	2182.4000167847	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-14T23:38:17	Date and time of file creation	ontime1	2182.4000167847	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2179.2591059208	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	102654	Number of level 1 events

### 2.1.4 Events

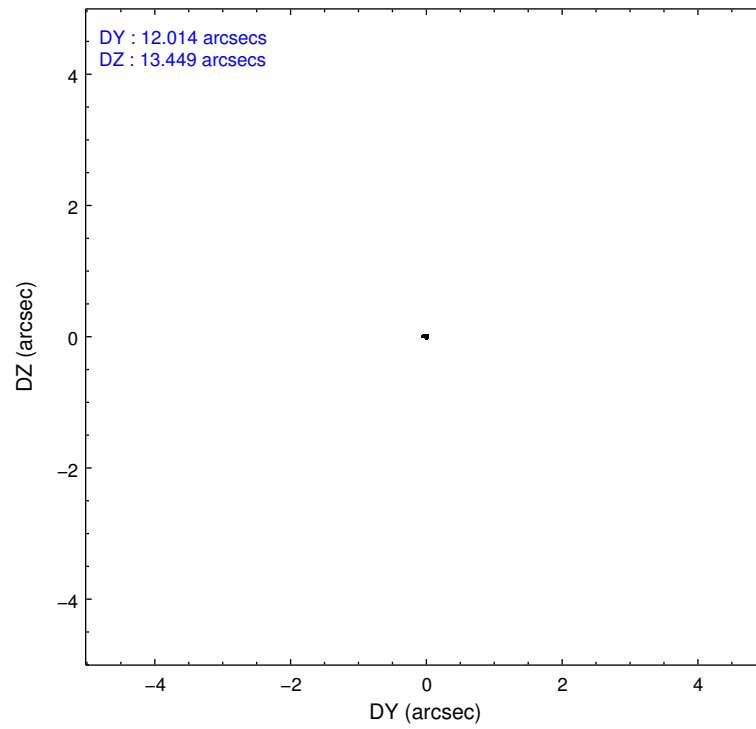
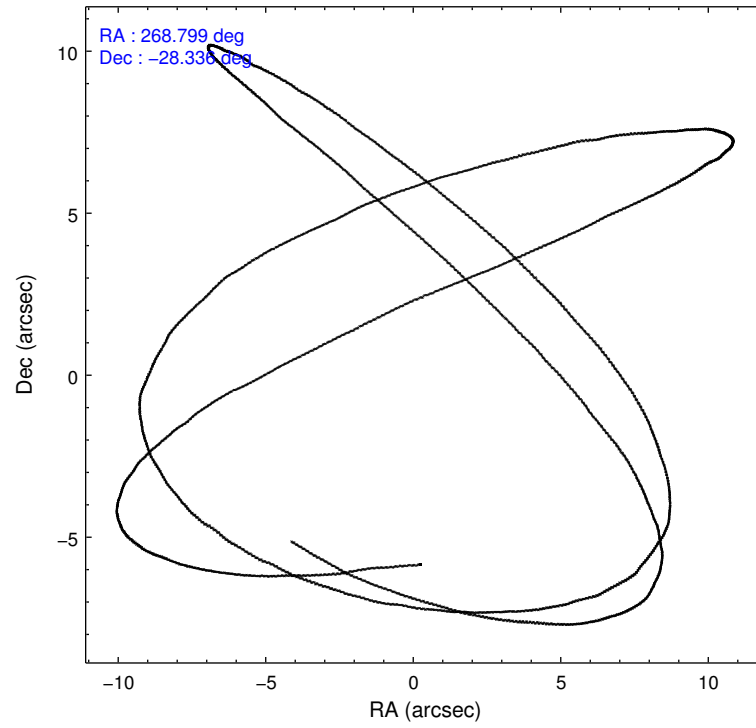
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18559	19632	21283	20195	22985
rejected events	16438	17320	19152	18254	13626
rejected %	88%	88%	89%	90%	59%

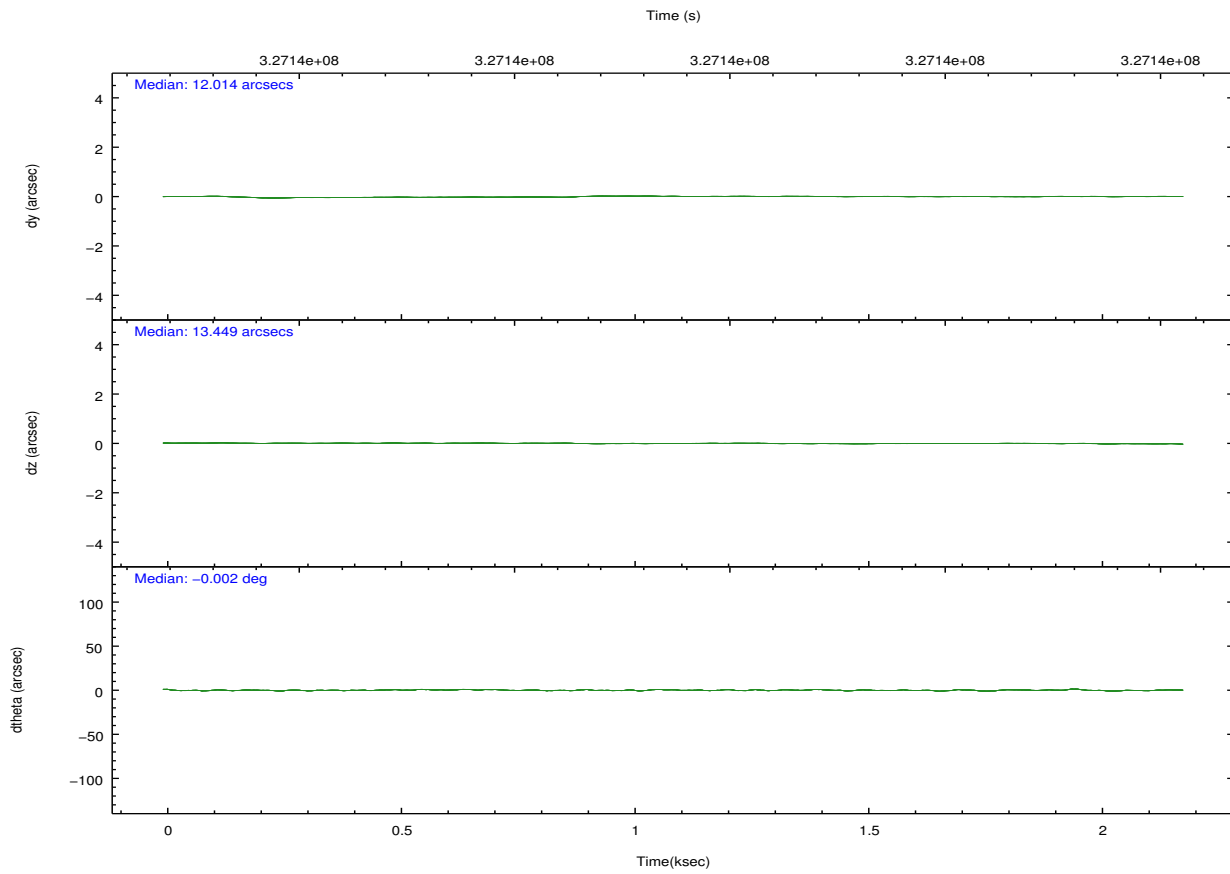
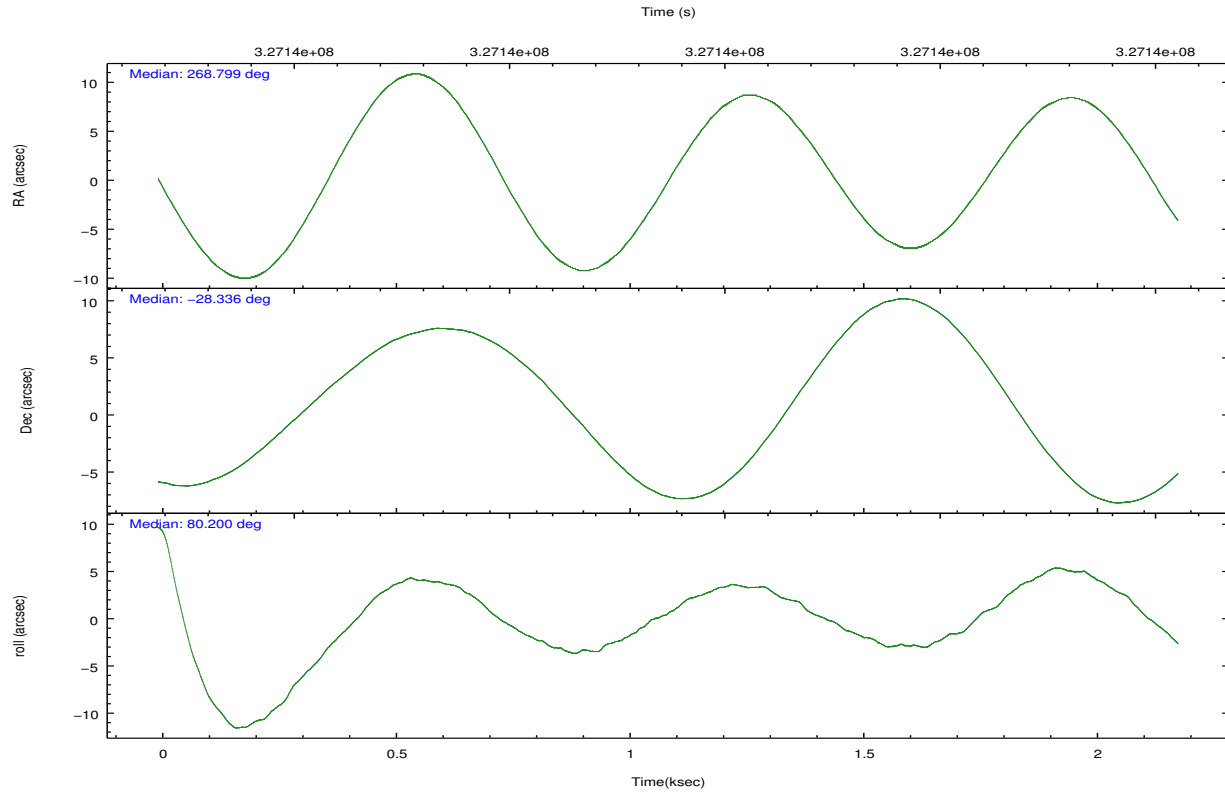
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1055	1169	1053	976	1094
	5%	5%	4%	4%	4%
grade 1 events	9	12	10	18	24
	0%	0%	0%	0%	0%
grade 2 events	469	544	516	468	2293
	2%	2%	2%	2%	9%
grade 3 events	244	235	231	230	955
	1%	1%	1%	1%	4%
grade 4 events	226	240	235	231	1045
	1%	1%	1%	1%	4%
grade 5 events	668	753	674	844	2401
	3%	3%	3%	4%	10%
grade 6 events	432	450	390	364	5403
	2%	2%	1%	1%	23%
grade 7 events	15456	16229	18174	17064	9770
	83%	82%	85%	84%	42%

## 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	268.809852	268.79883094283	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.361120	-28.33551477899628	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004306	80.20778560230799	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)	327141452.184000	327141075.84201	CCD S5 on	N	N
Observation start date	2008-05-14T08:36:27	2008-05-14T08:31:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327143452.184000	327143586.06713	On-chip summing requested	N	N
Observation end date	2008-05-14T09:09:47	2008-05-14T09:13:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





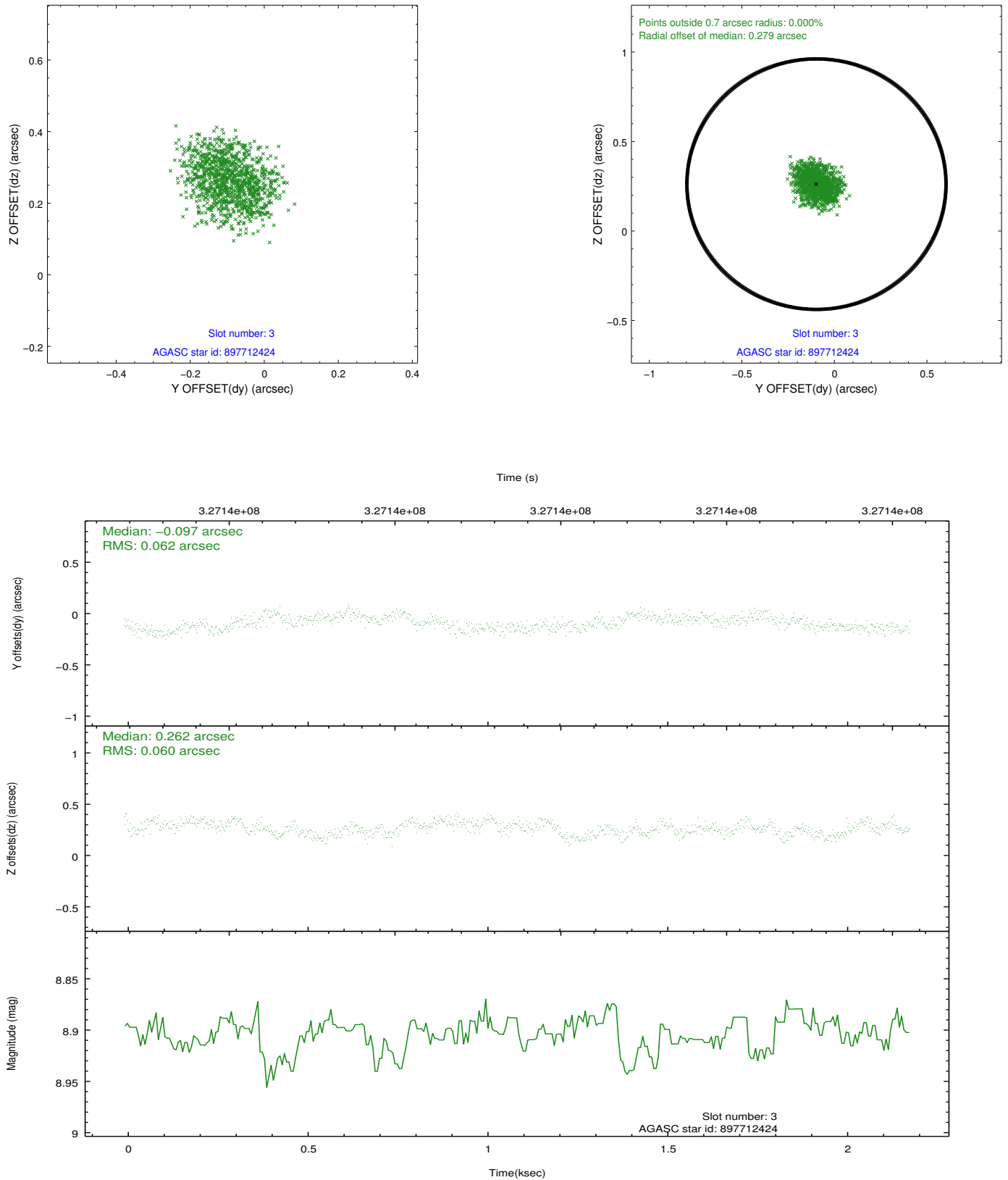
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	533	0.007	0.042	0.006	0.011	0.000000	0.000000	927.55	-836.96
1	FID	ACIS-I-5	7.05	533	-0.153	0.036	0.006	0.011	0.000000	0.000000	-1819.08	1059.02
2	FID	ACIS-I-6	7.06	533	0.055	-0.007	0.007	0.014	0.000000	0.000000	389.89	1706.87
3	GUIDE	897712424	8.90	1066	-0.097	0.262	0.096	0.140	269.567786	-28.090711	1370.21	-2202.74
4	GUIDE	897720600	8.24	1065	0.000	-0.100	0.064	0.104	268.319864	-27.628963	2323.19	1994.22
5	GUIDE	897721112	8.70	1066	0.049	-0.148	0.079	0.122	268.338159	-28.057278	817.13	1666.77
6	GUIDE	898238128	7.70	1065	-0.018	-0.141	0.061	0.096	268.450740	-28.688500	-1357.71	913.06
7	GUIDE	898258992	8.00	1064	0.061	0.132	0.061	0.093	269.435214	-28.570389	-403.89	-2078.08

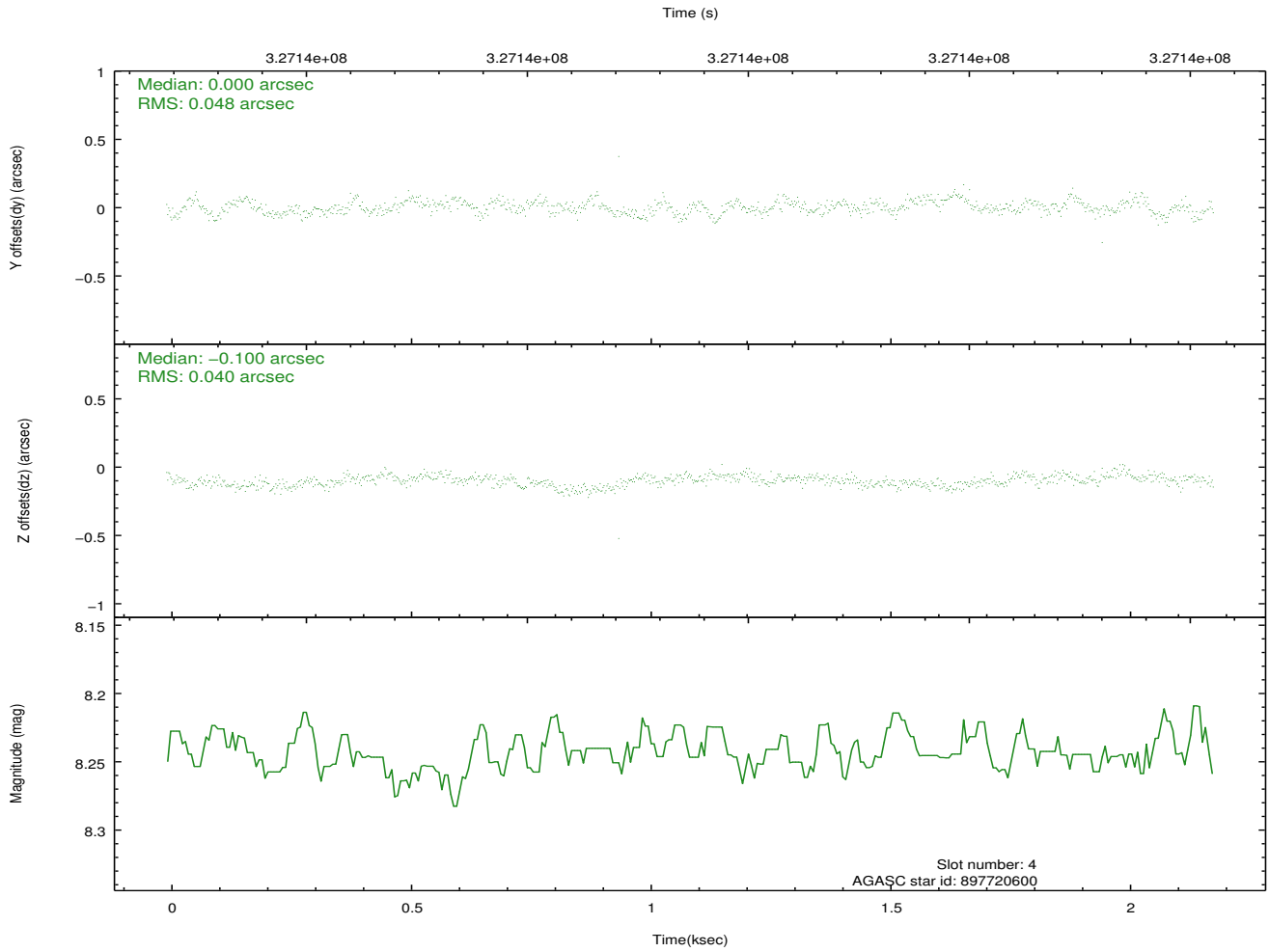
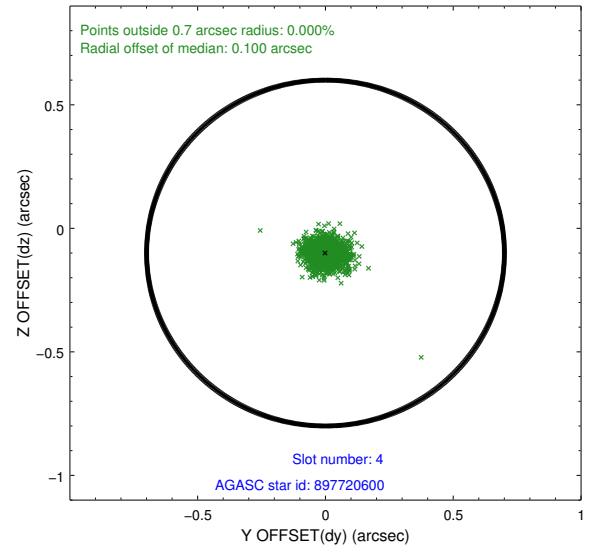
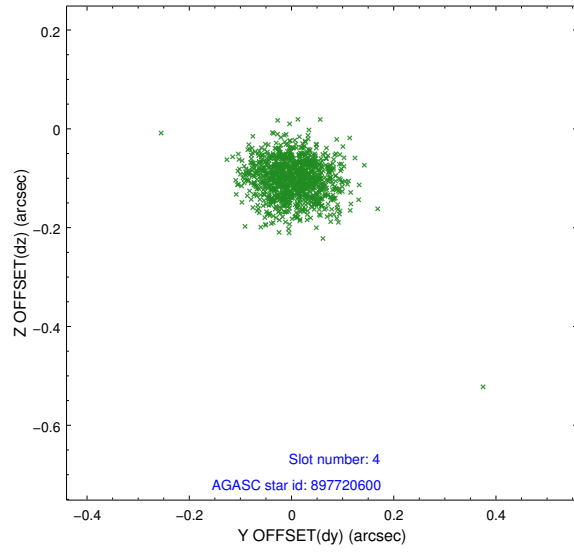


## 2.4 Star Slots

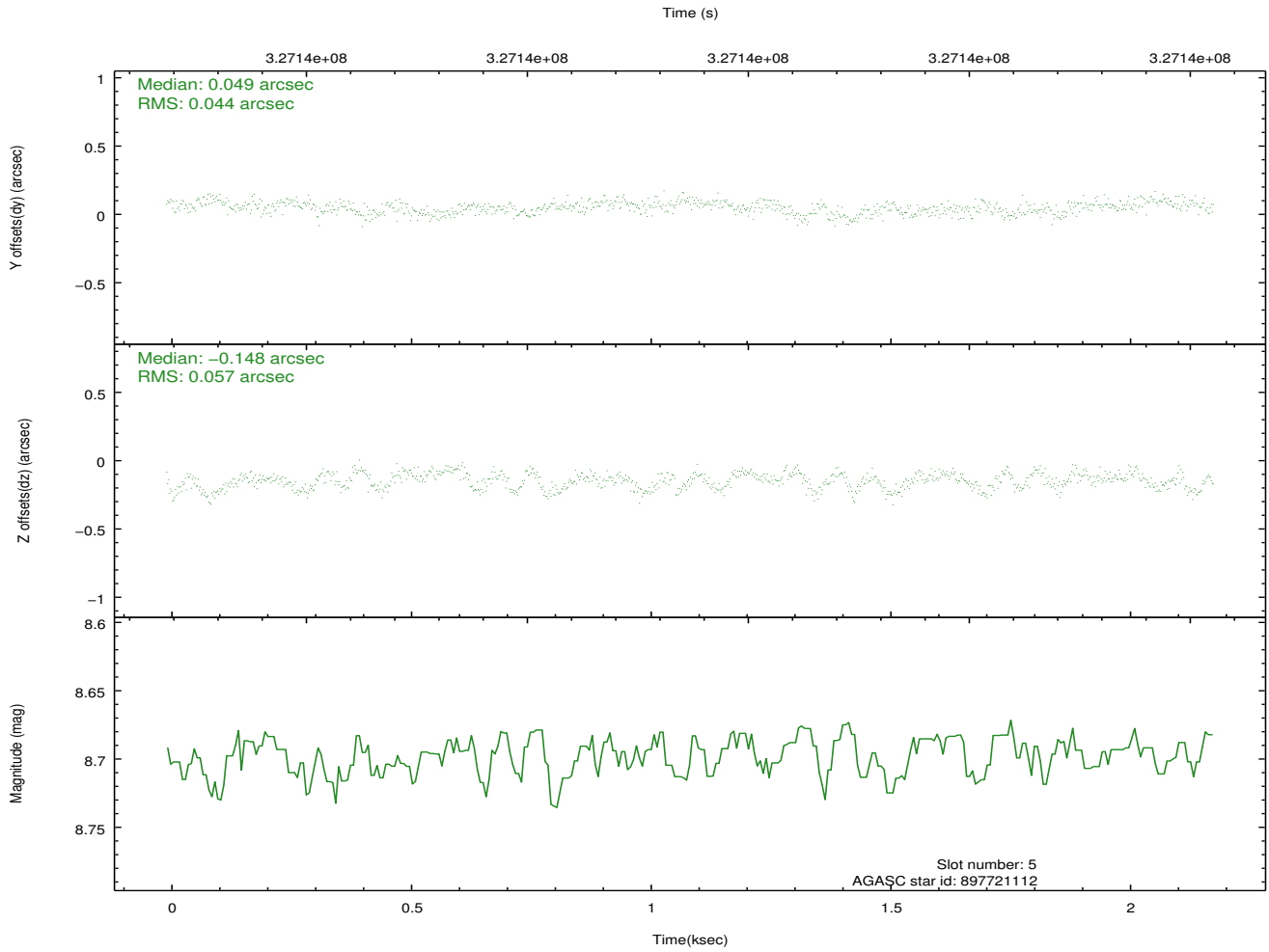
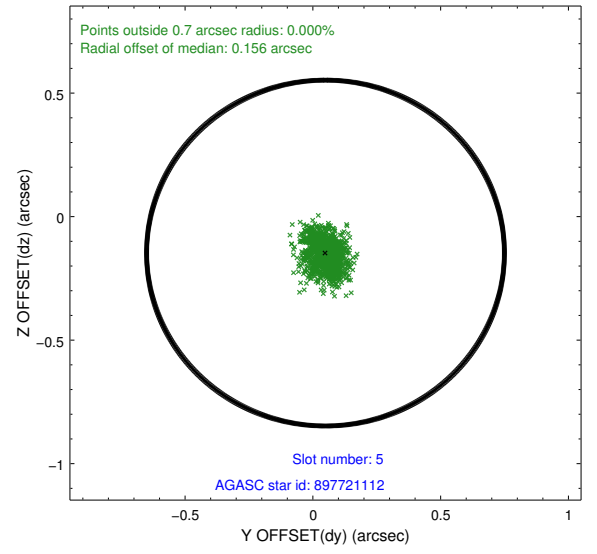
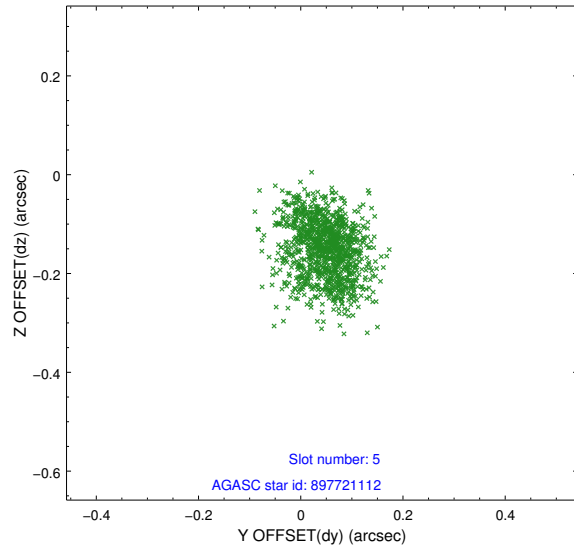
### 2.4.1 Slot 3



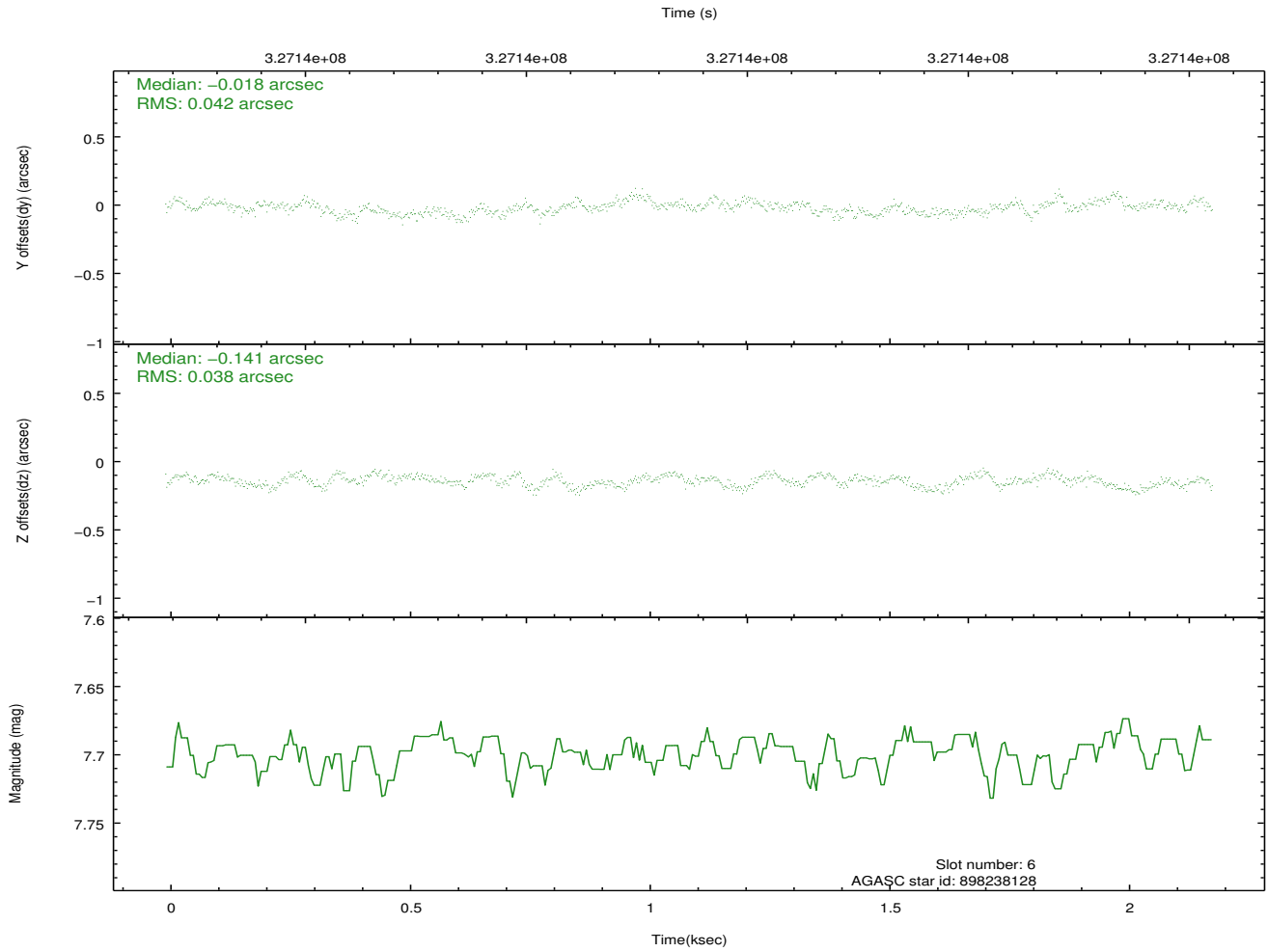
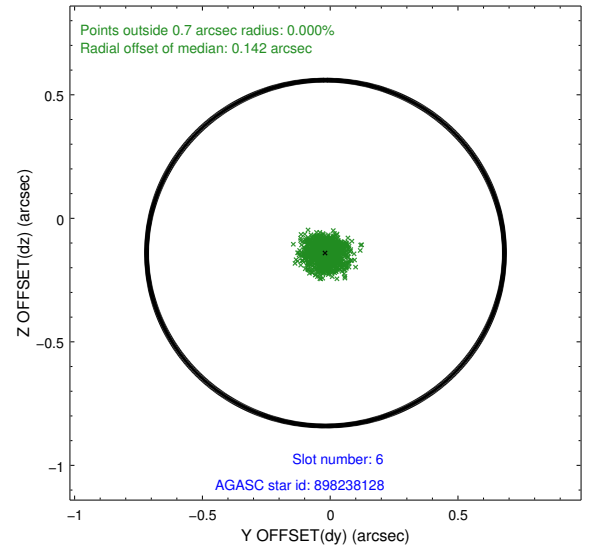
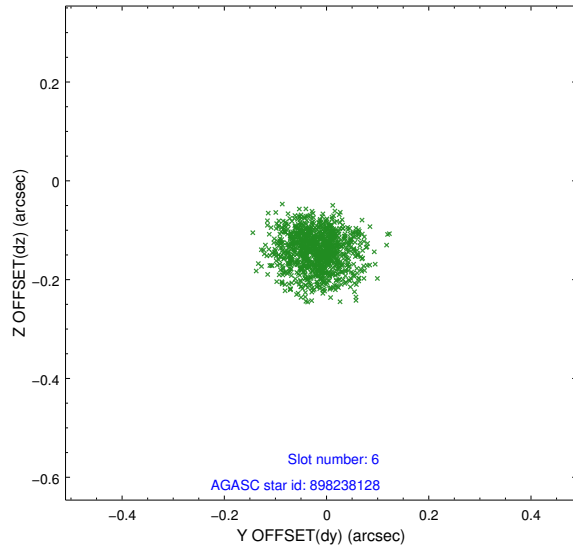
## 2.4.2 Slot 4



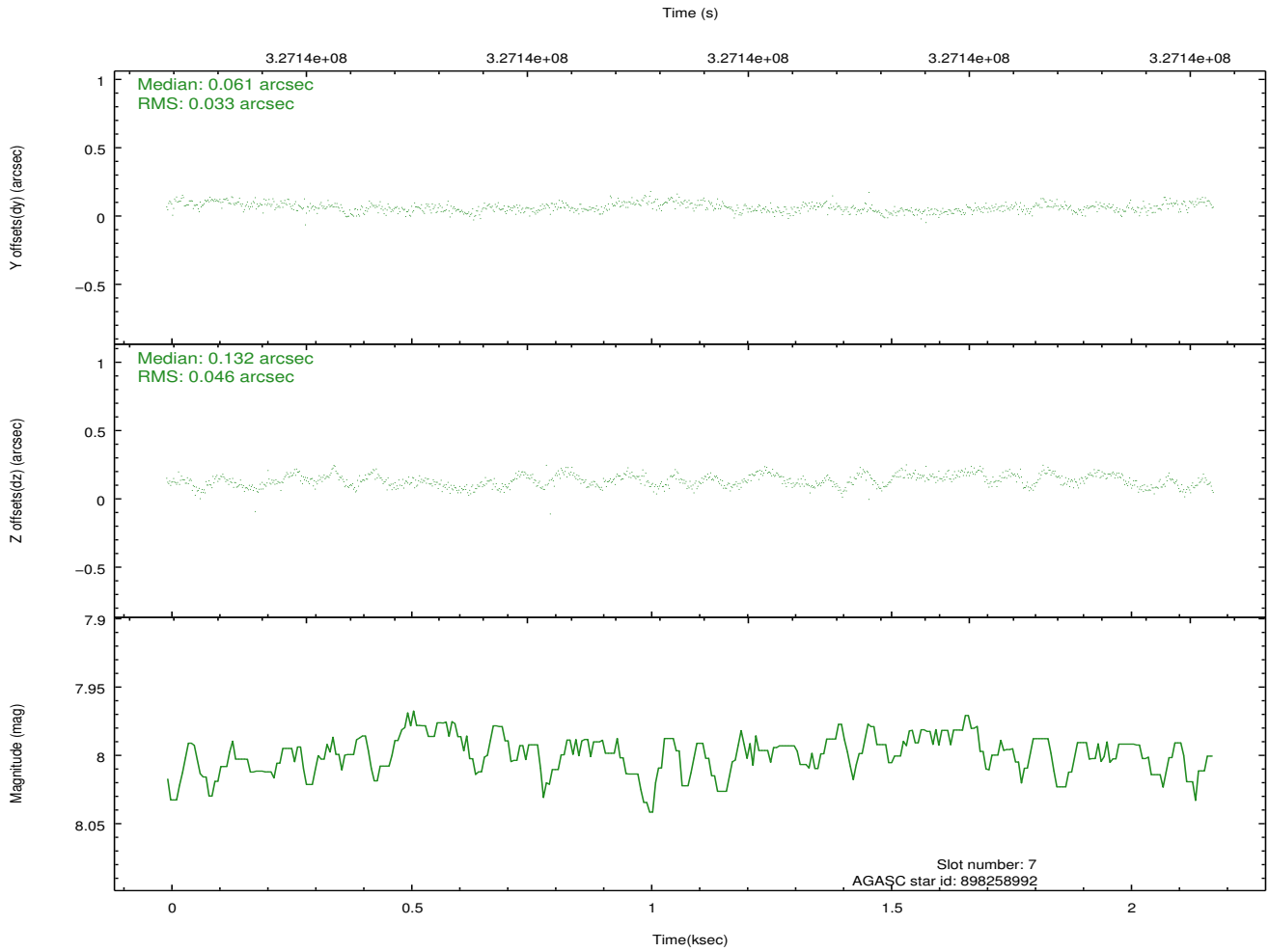
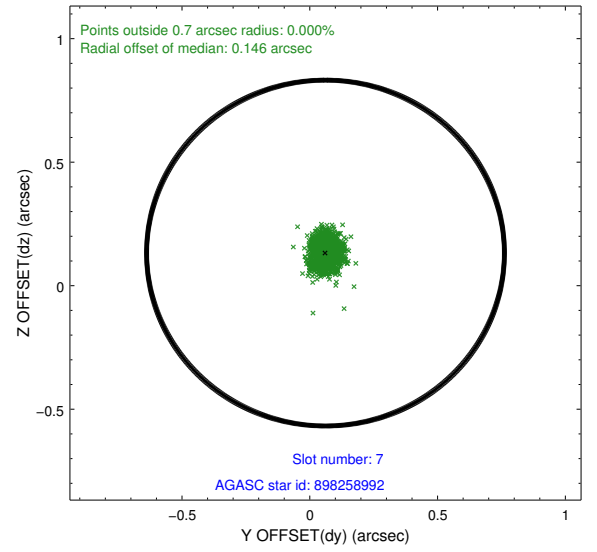
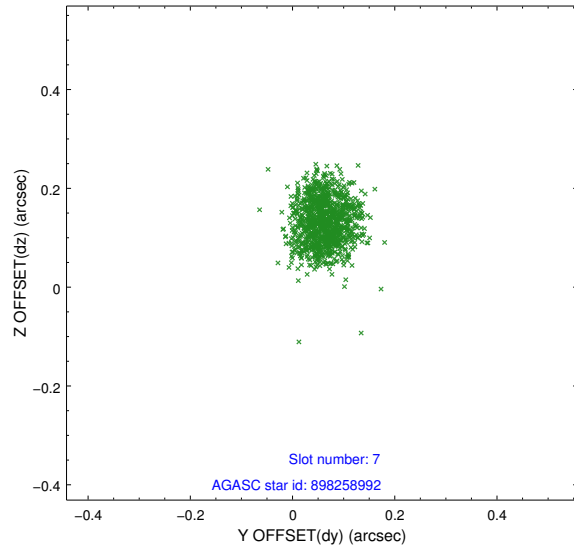
### 2.4.3 Slot 5



## 2.4.4 Slot 6

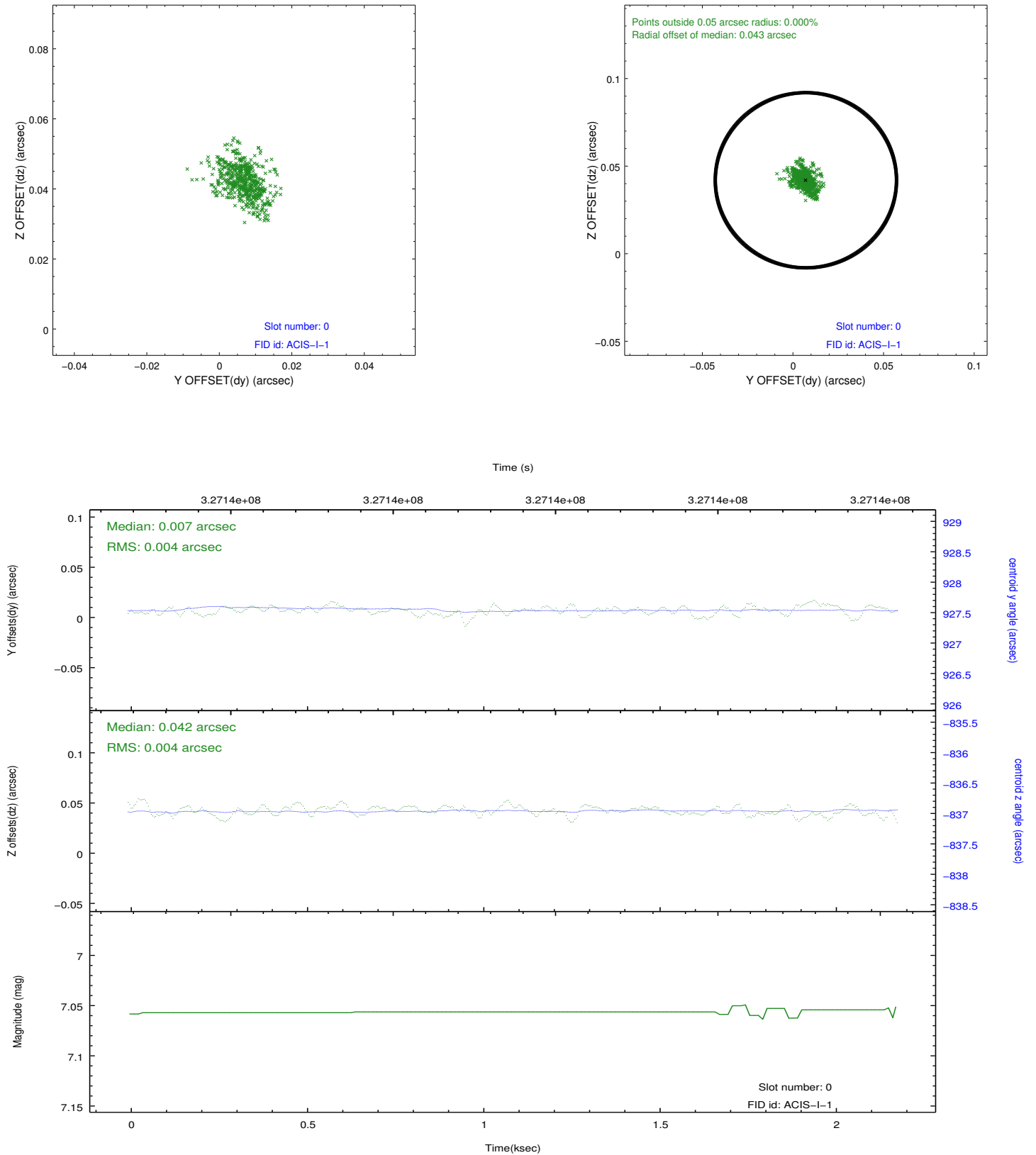


## 2.4.5 Slot 7

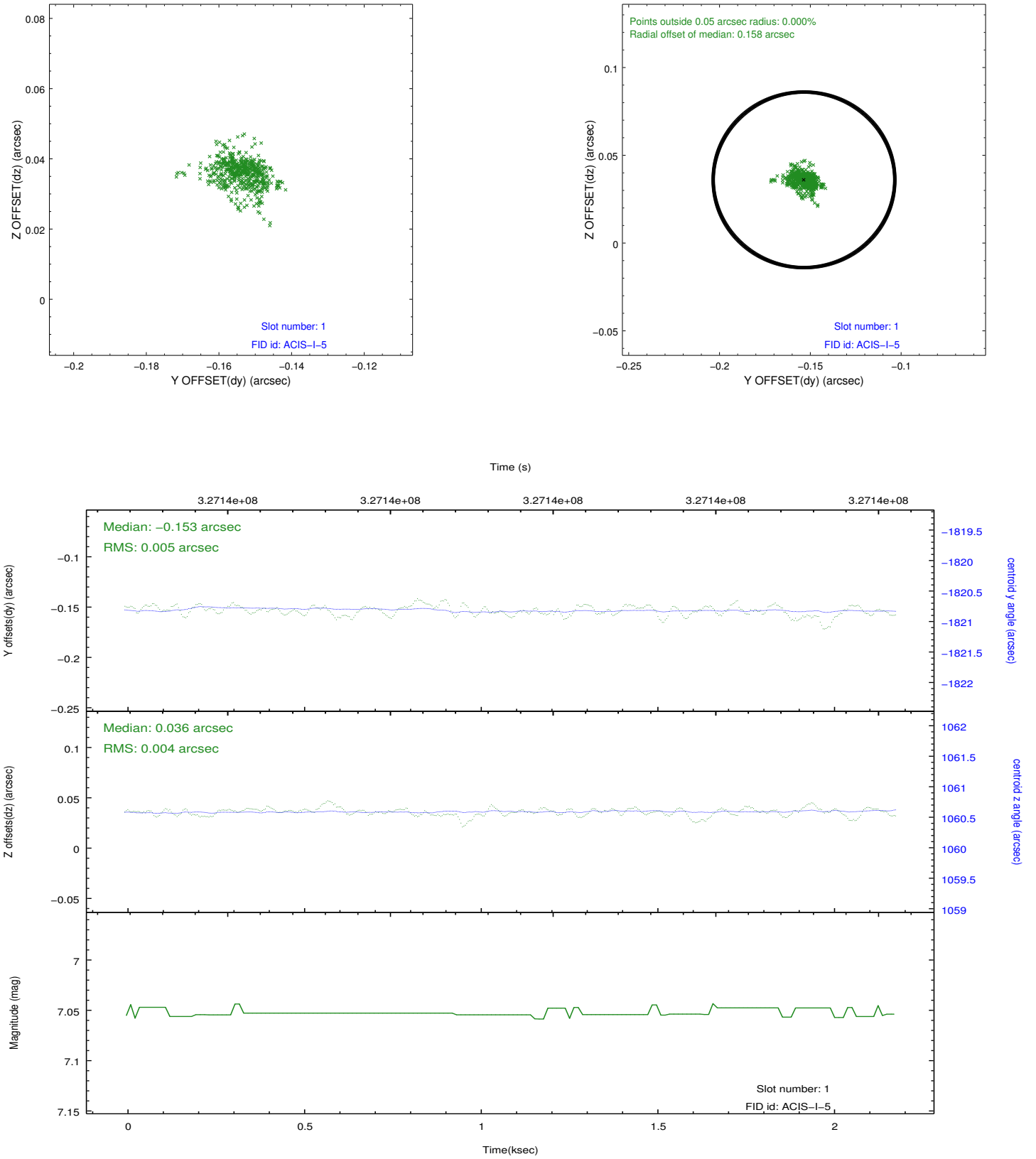


## 2.5 FID Slots

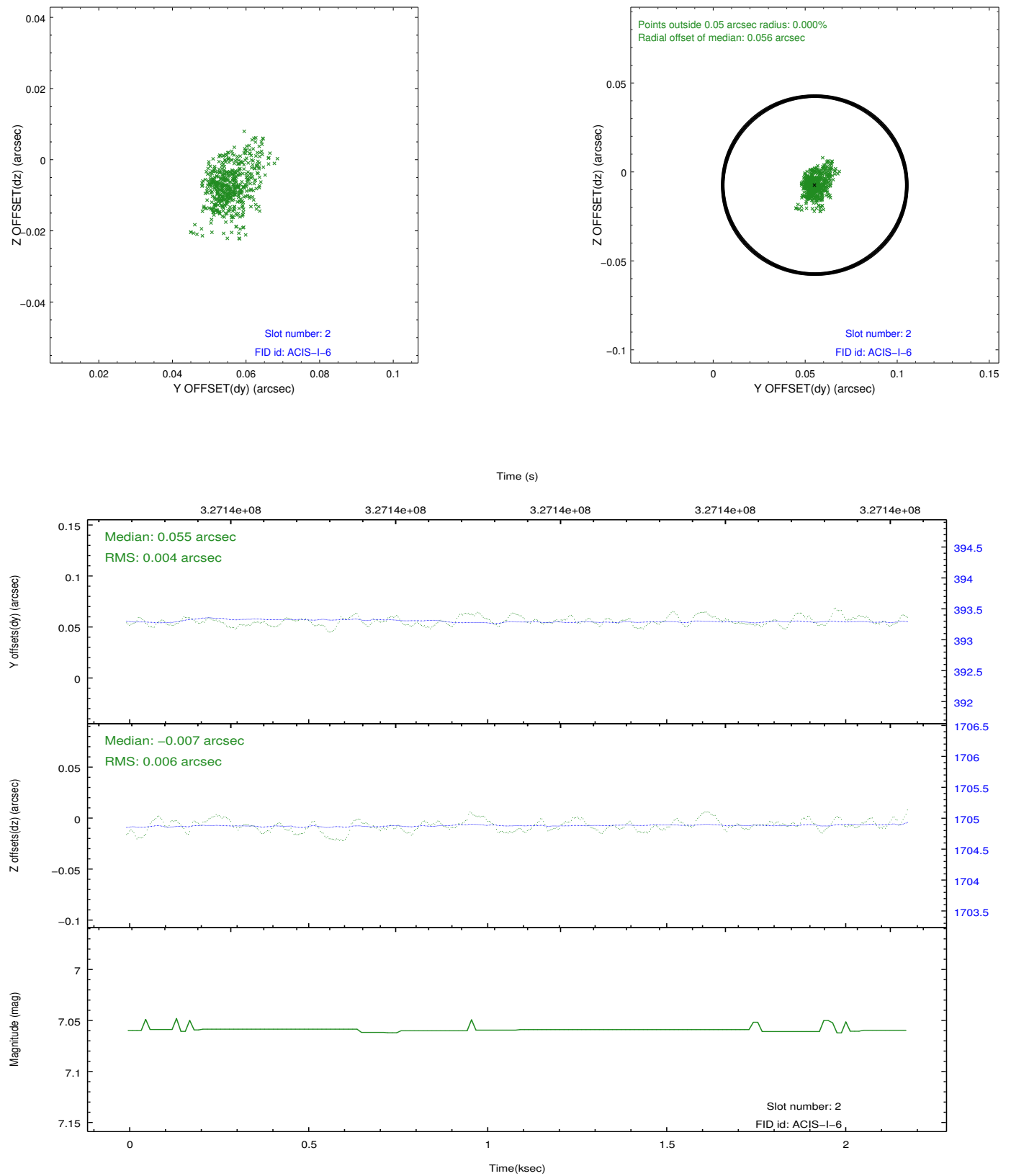
### 2.5.1 Slot 0



## 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)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18240001

### A.2 Comments

Joint proposal with NOAO.