

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8669 - L2 Version 2  
Chandra X-Ray Center

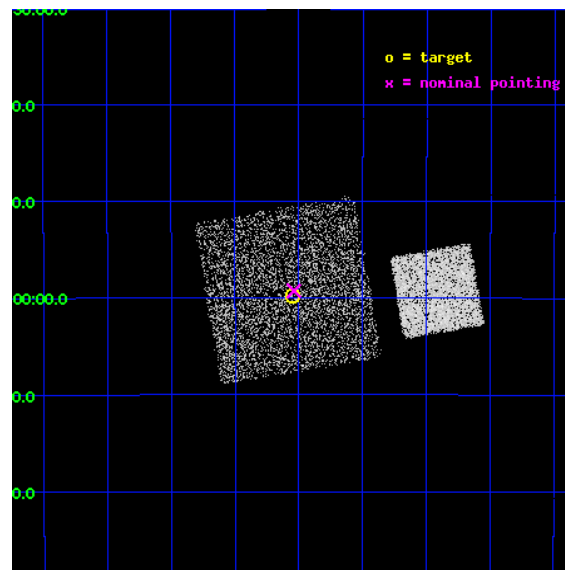
L2 Processing Date : May 15 2012

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# 1 Front

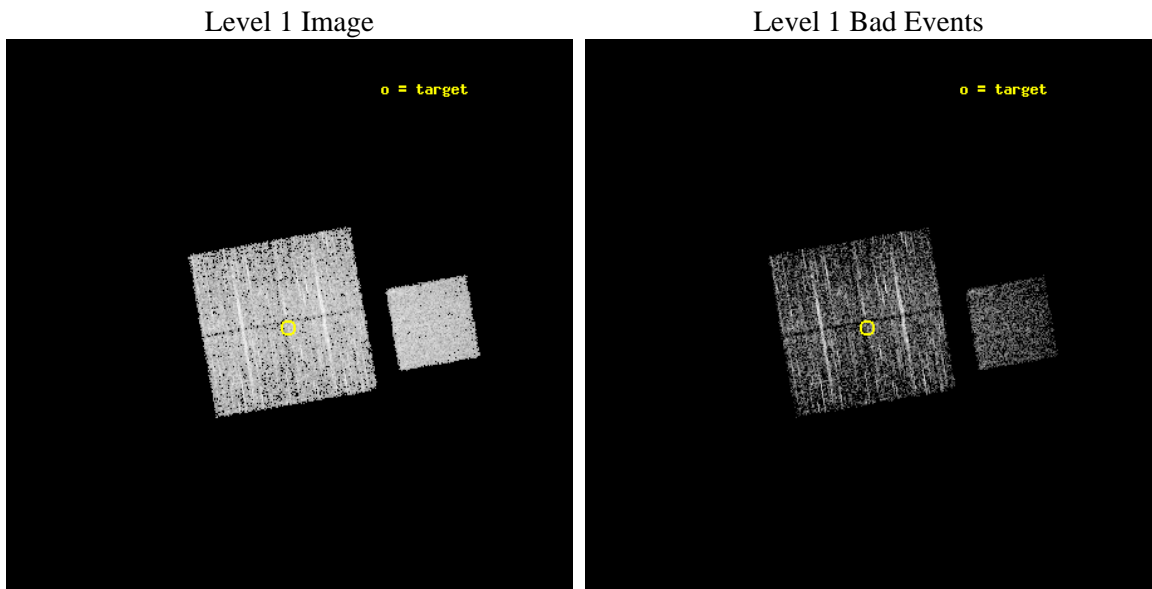
seq_num	400720	Sequence number
obs_id	8669	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.761039	Observer's specified target RA [deg]
dec_targ	-26.995608	Observer's specified target Dec [deg]
ra_nom	265.75977453493	Nominal RA [deg]
dec_nom	-26.987700461509	Nominal Dec [deg]
roll_nom	80.208133521835	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.4590364099	Sum of GTIs [s]
livetime	2156.9044051876	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2188.6000168324	Sum of GTIs [s]
ontime3	2185.4590364099	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	15255	Number of level 2 events



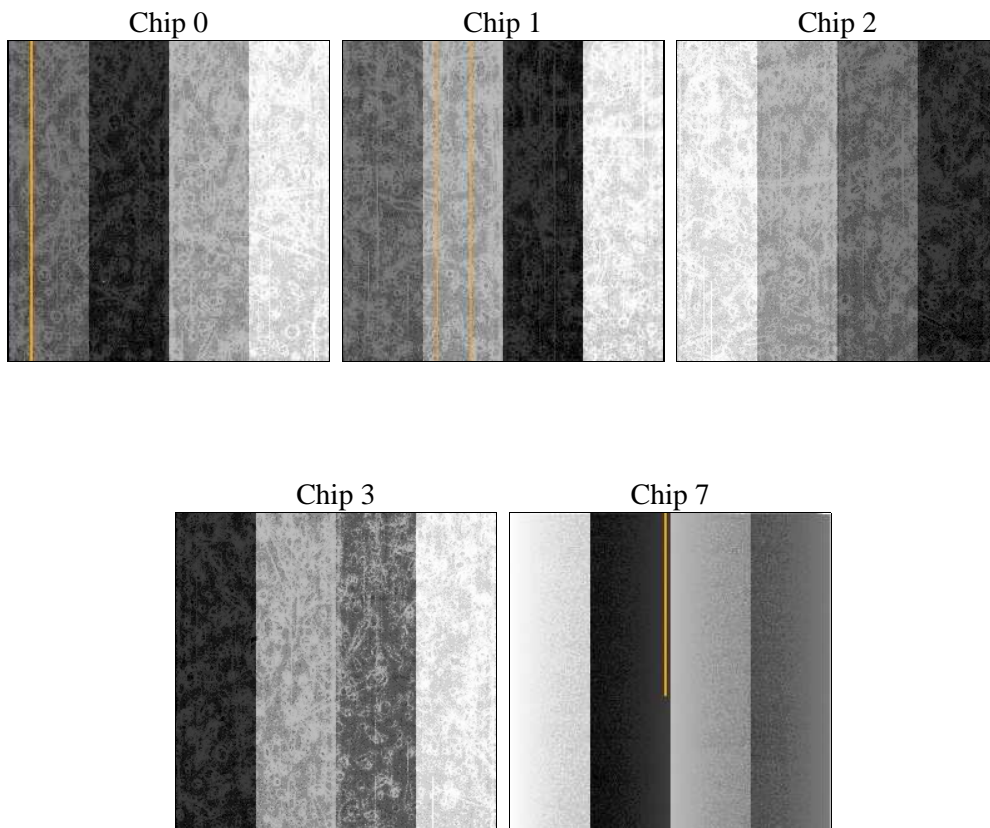
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2185.4590364099	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-15T03:07:27	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2188.6000168324	Sum of GTIs [s]
			ontime3	2185.4590364099	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	101036	Number of level 1 events

### 2.1.4 Events

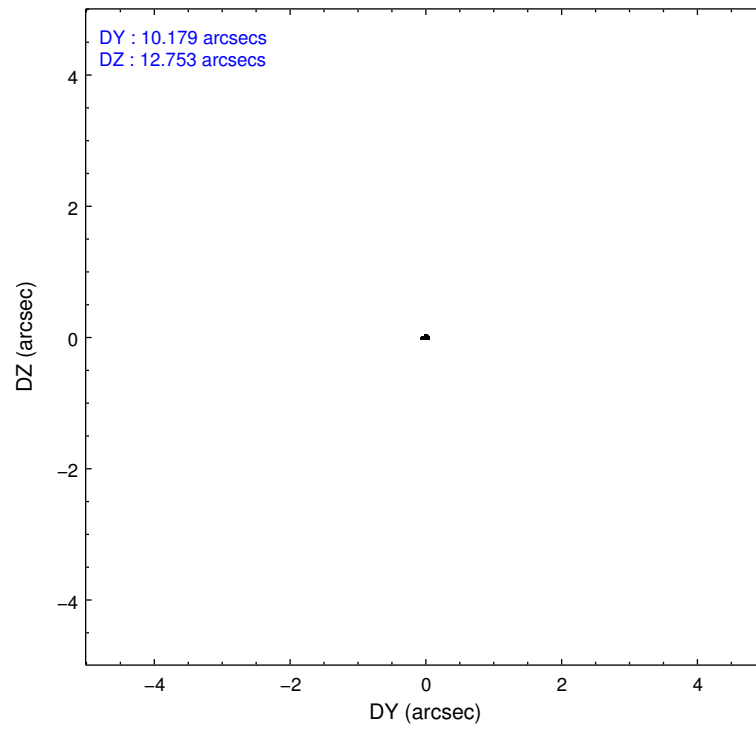
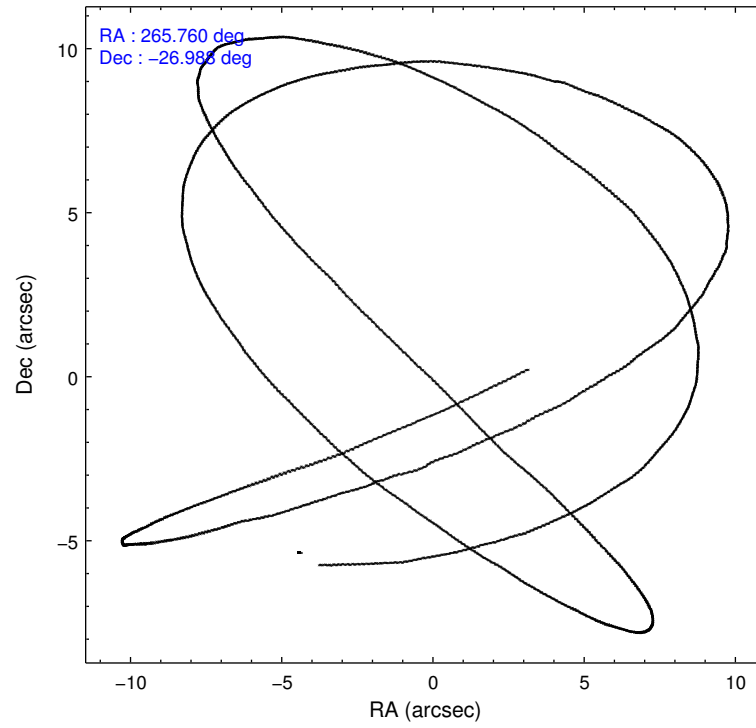
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19229	18505	21276	19555	22471
rejected events	17249	16332	19293	17720	13539
rejected %	89%	88%	90%	90%	60%

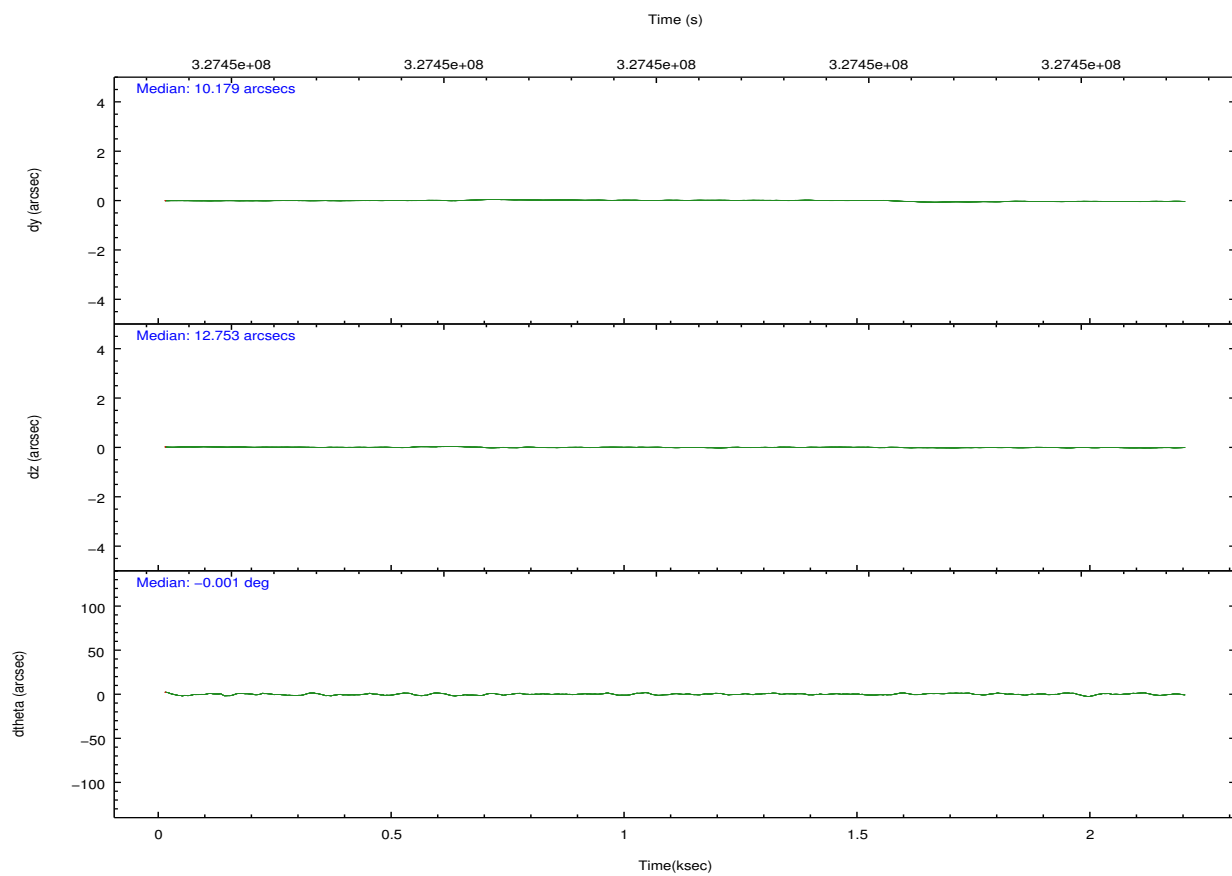
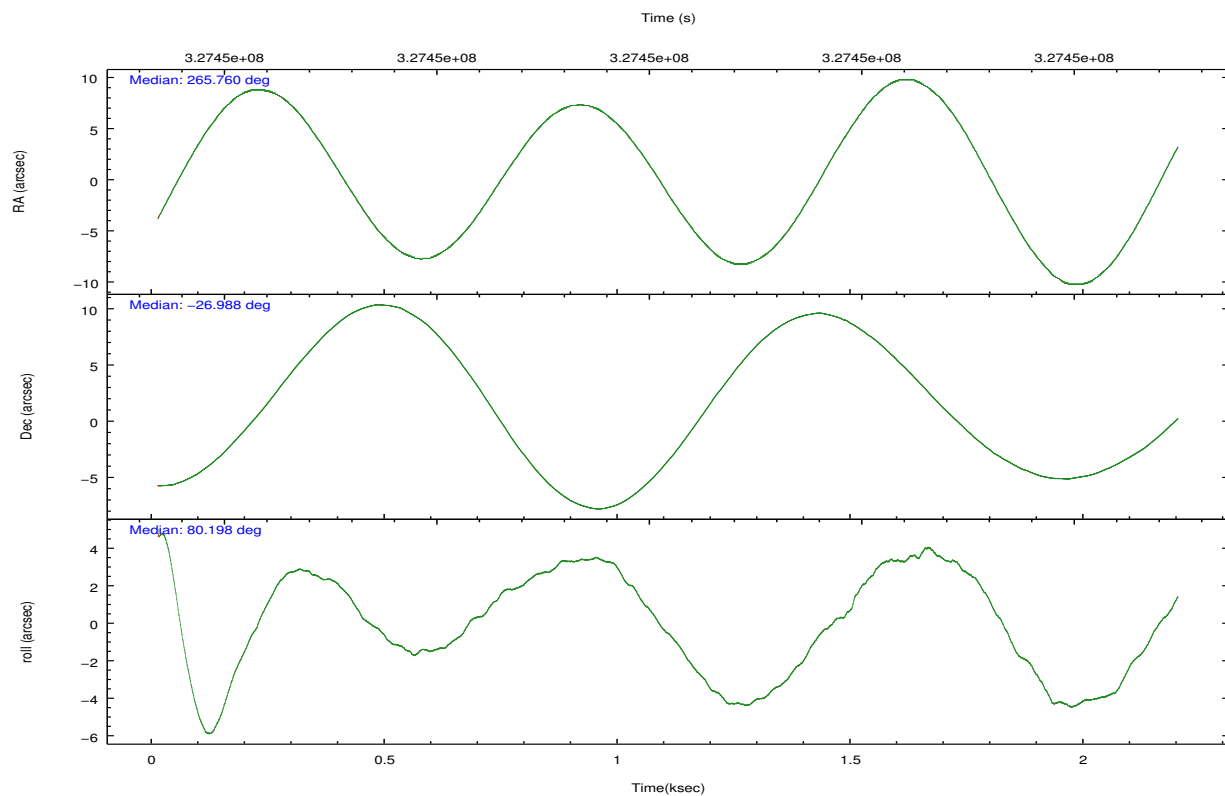
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	853	970	941	838	961
	4%	5%	4%	4%	4%
grade 1 events	15	16	14	10	28
	0%	0%	0%	0%	0%
grade 2 events	602	479	508	471	2108
	3%	2%	2%	2%	9%
grade 3 events	238	260	222	213	940
	1%	1%	1%	1%	4%
grade 4 events	226	292	225	226	919
	1%	1%	1%	1%	4%
grade 5 events	672	780	660	724	2357
	3%	4%	3%	3%	10%
grade 6 events	357	481	367	367	5322
	1%	2%	1%	1%	23%
grade 7 events	16266	15227	18339	16706	9836
	84%	82%	86%	85%	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	265.770630	265.7597745349345	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.013359	-26.98770046150949	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004359	80.20813352183504	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)	327449644.184000	327449267.73203	CCD S5 on	N	N
Observation start date	2008-05-17T22:12:59	2008-05-17T22:07:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327451644.184000	327451777.95715	On-chip summing requested	N	N
Observation end date	2008-05-17T22:46:19	2008-05-17T22:49:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





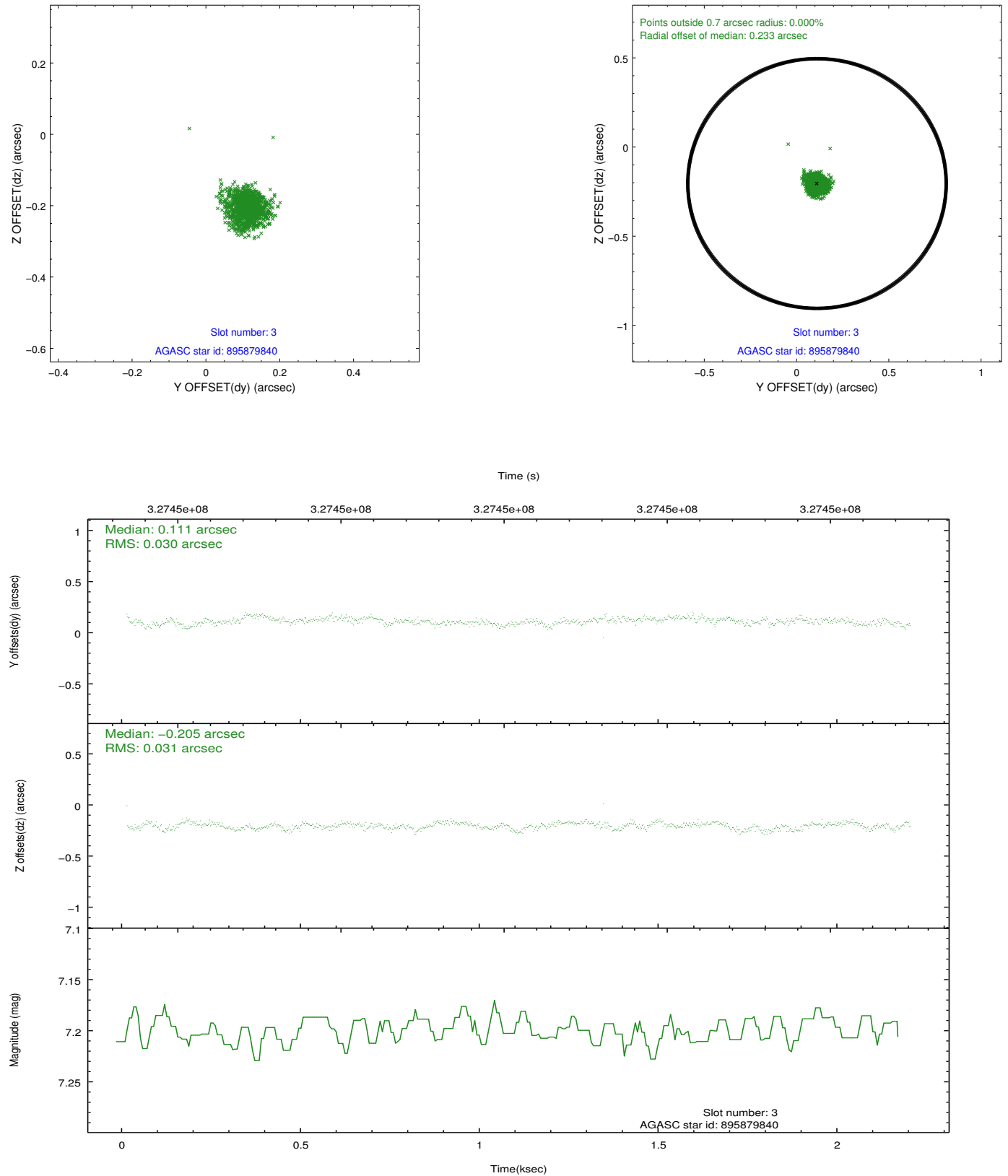
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	535	-0.011	0.053	0.008	0.014	0.000000	0.000000	929.40	-836.25
1	FID	ACIS-I-2	6.92	535	-0.166	-0.067	0.006	0.010	0.000000	0.000000	-763.19	-844.27
2	FID	ACIS-I-4	6.96	535	0.079	0.080	0.006	0.010	0.000000	0.000000	2148.05	1062.06
3	GUIDE	895879840	7.20	1069	0.111	-0.205	0.045	0.073	265.218397	-27.395778	-1665.66	1498.36
4	GUIDE	896013040	7.35	1069	-0.118	0.185	0.061	0.096	266.506589	-26.972299	548.06	-2299.26
5	GUIDE	896014680	8.78	1069	0.059	0.210	0.086	0.141	266.460330	-27.216583	-341.58	-2304.53
6	GUIDE	896015344	9.09	1068	-0.001	-0.013	0.083	0.139	265.913290	-26.611586	1504.26	-203.09
7	GUIDE	895882464	8.79	1068	-0.057	-0.182	0.074	0.114	265.568948	-26.820420	572.96	758.32

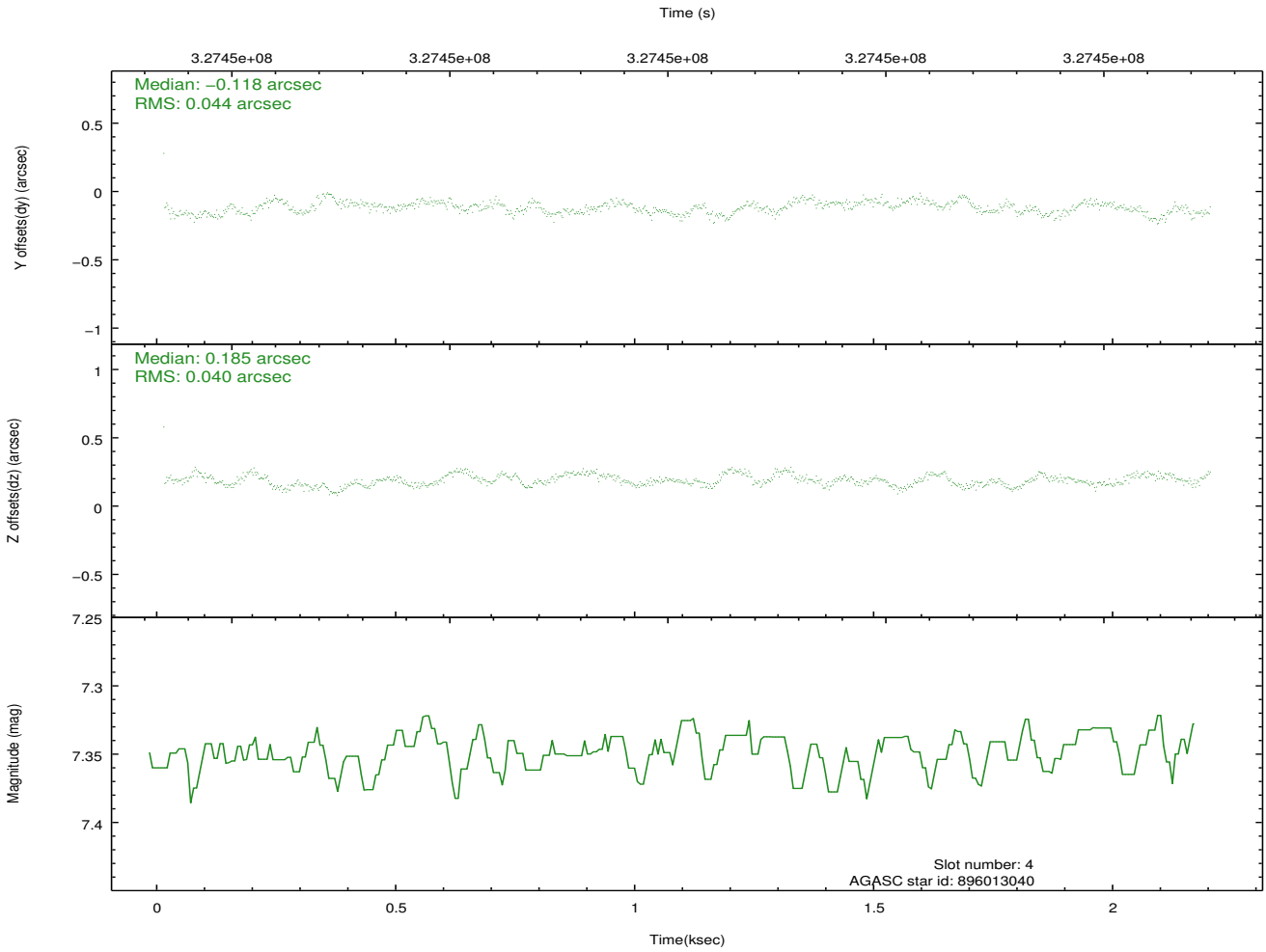
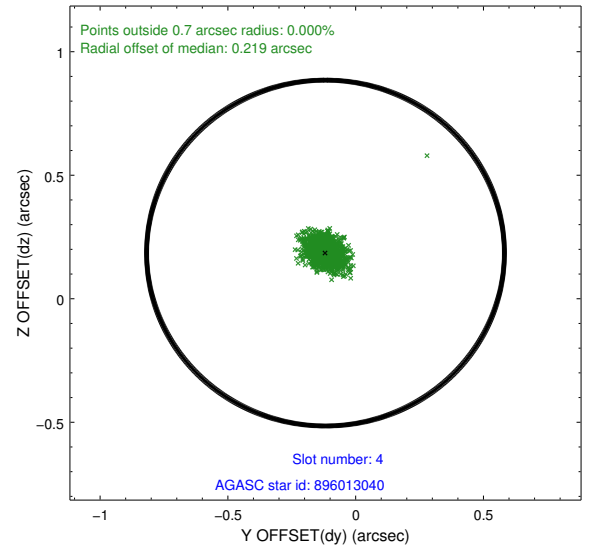
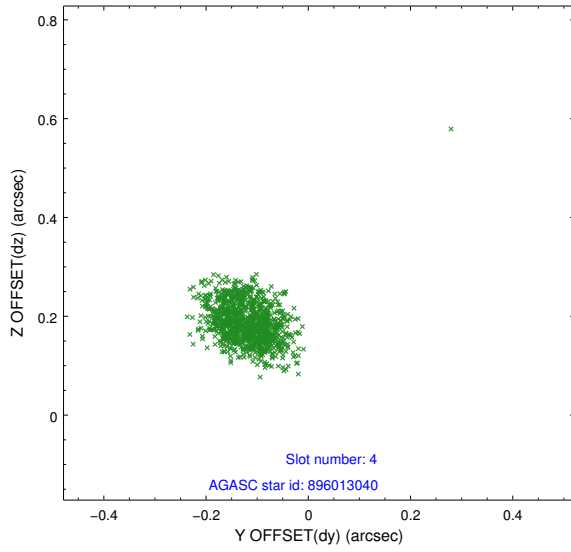


## 2.4 Star Slots

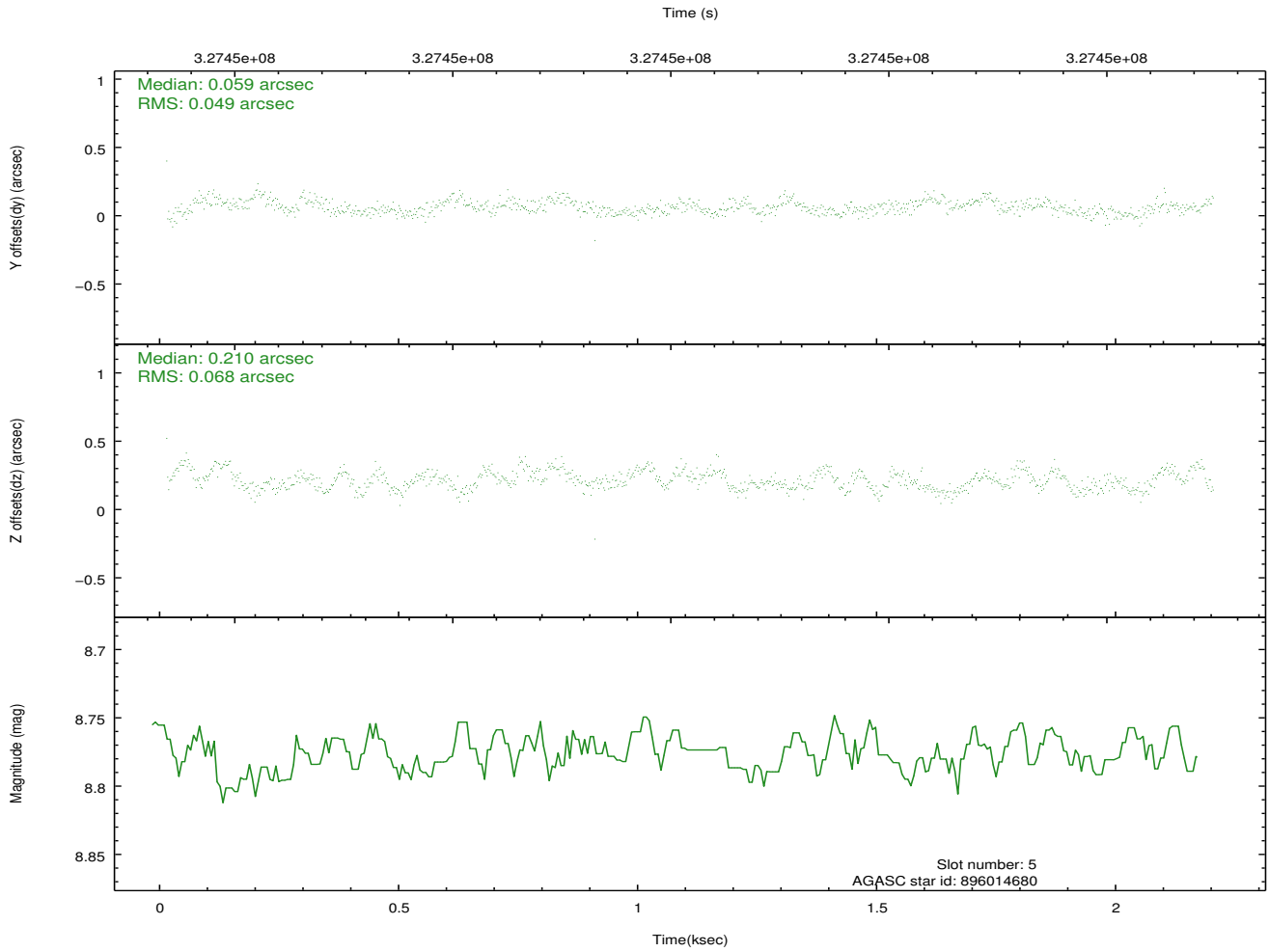
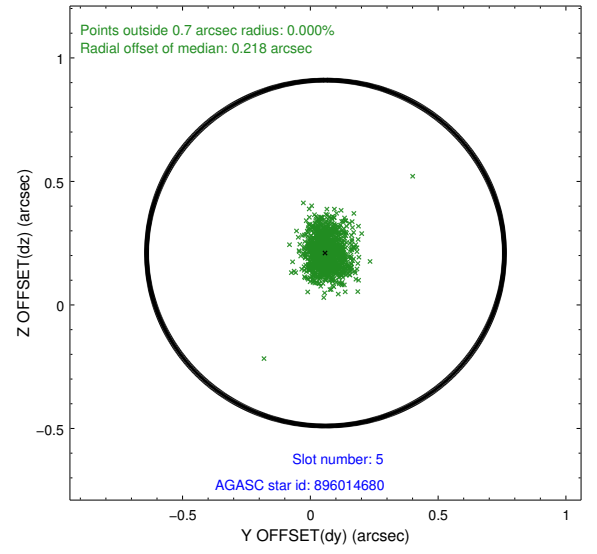
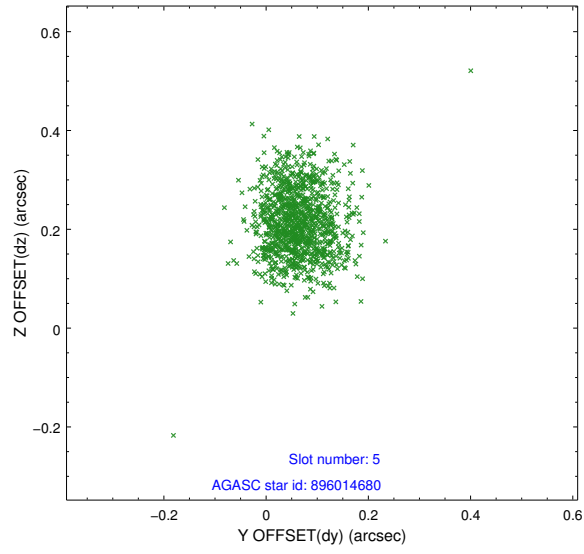
### 2.4.1 Slot 3



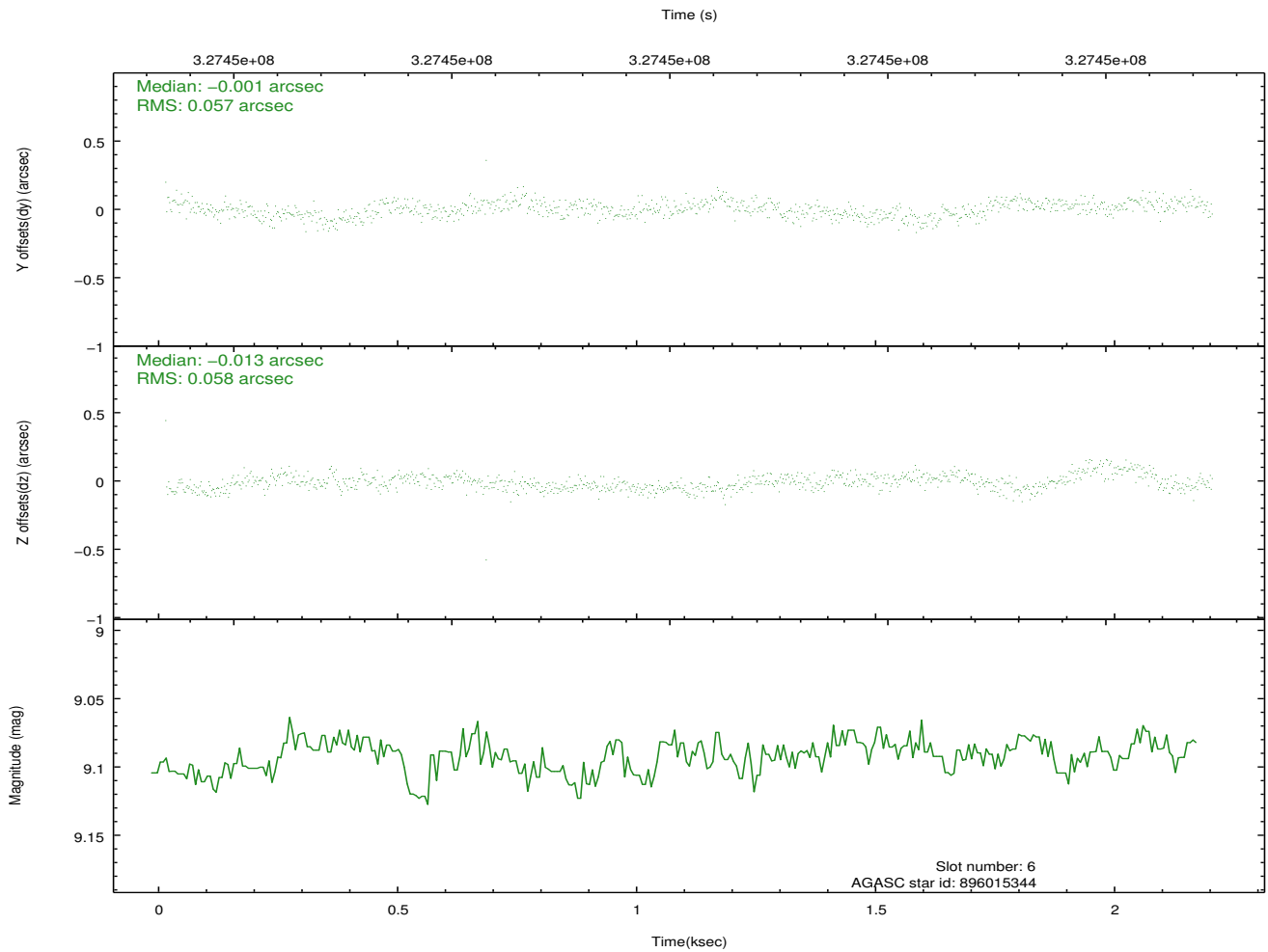
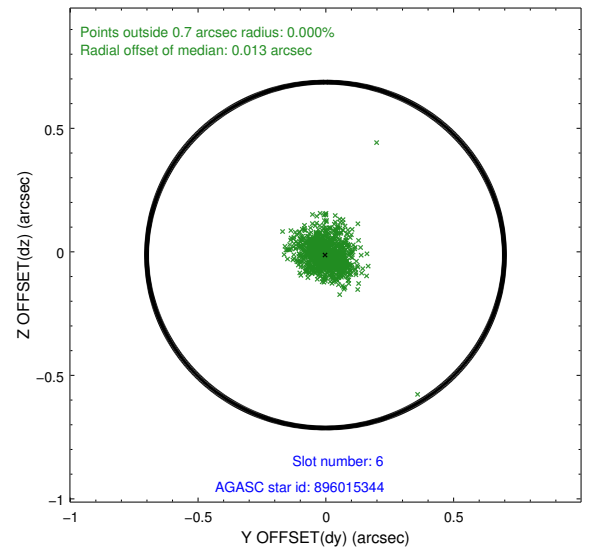
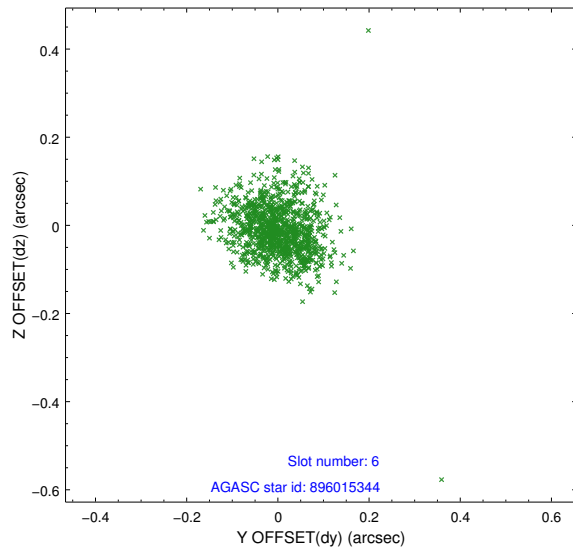
## 2.4.2 Slot 4



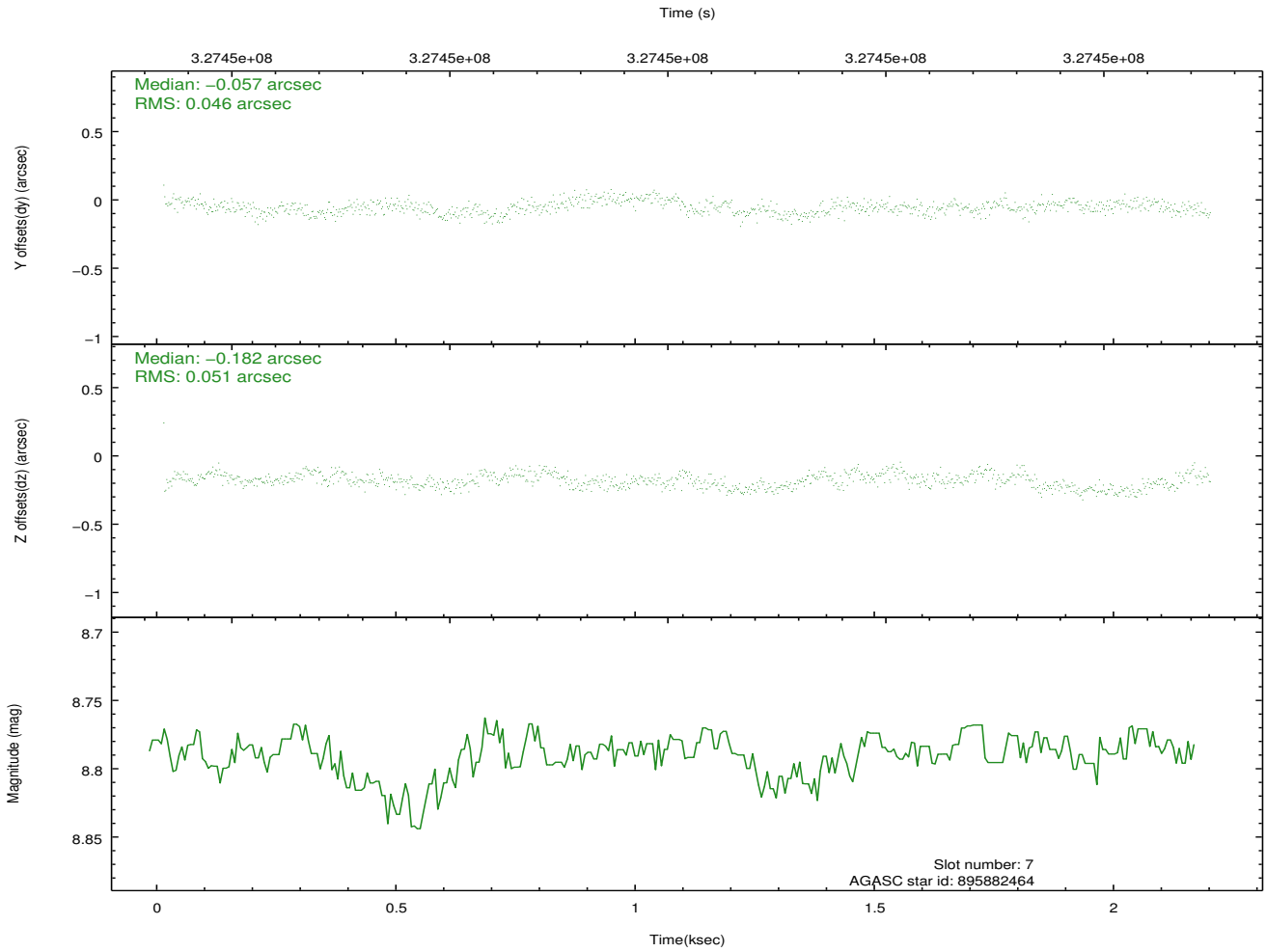
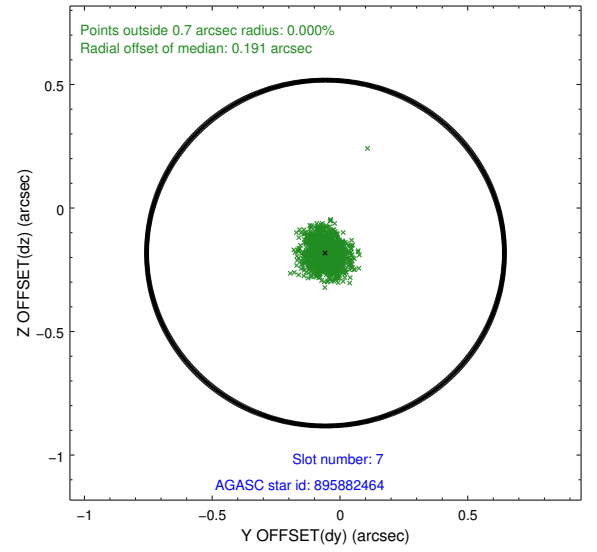
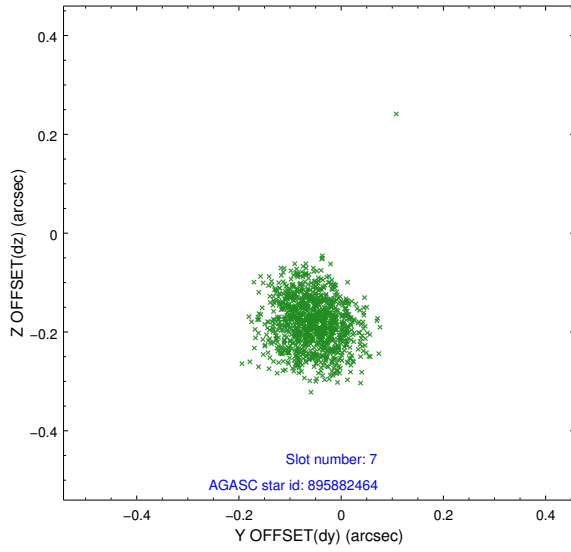
### 2.4.3 Slot 5



## 2.4.4 Slot 6

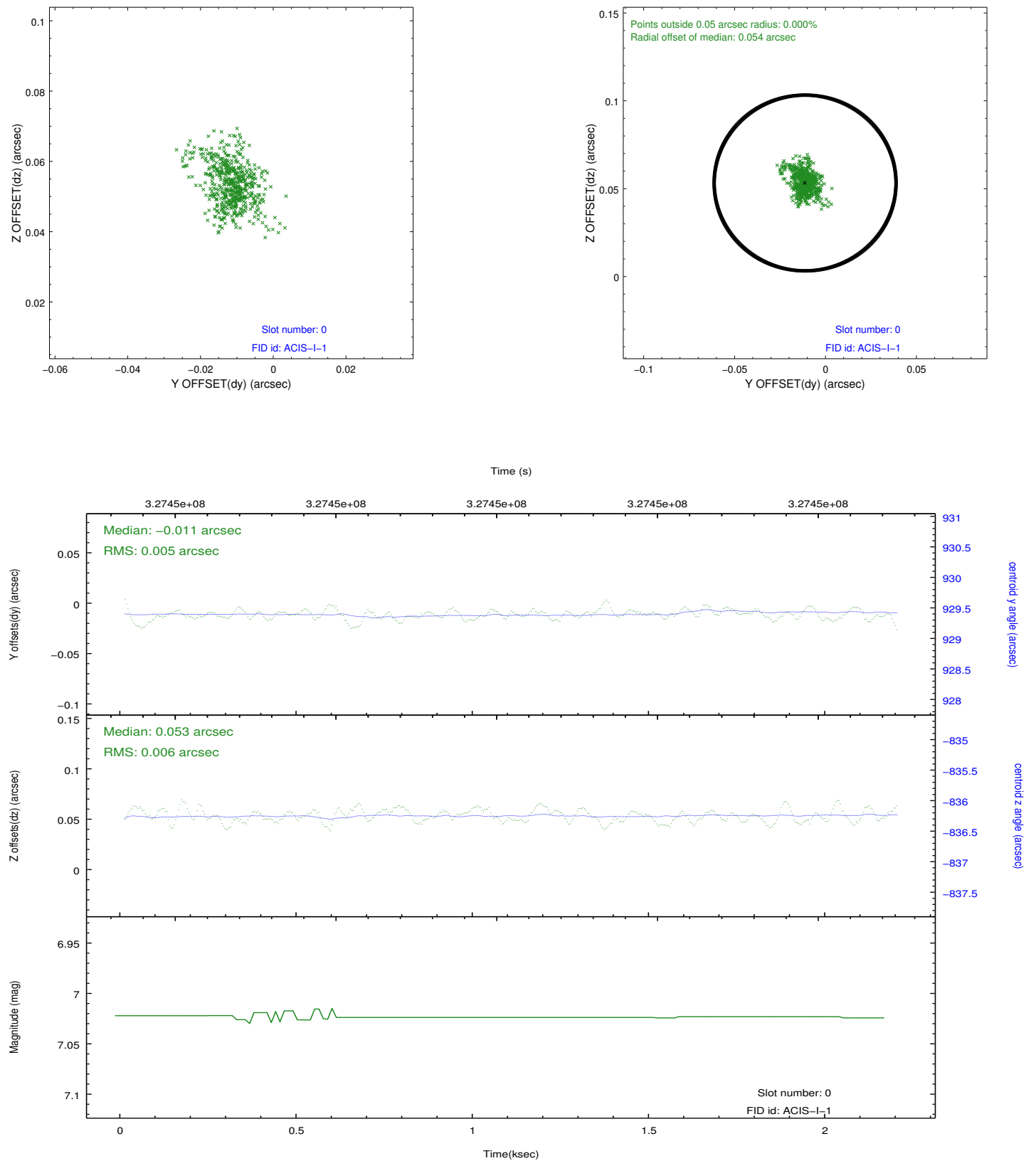


## 2.4.5 Slot 7

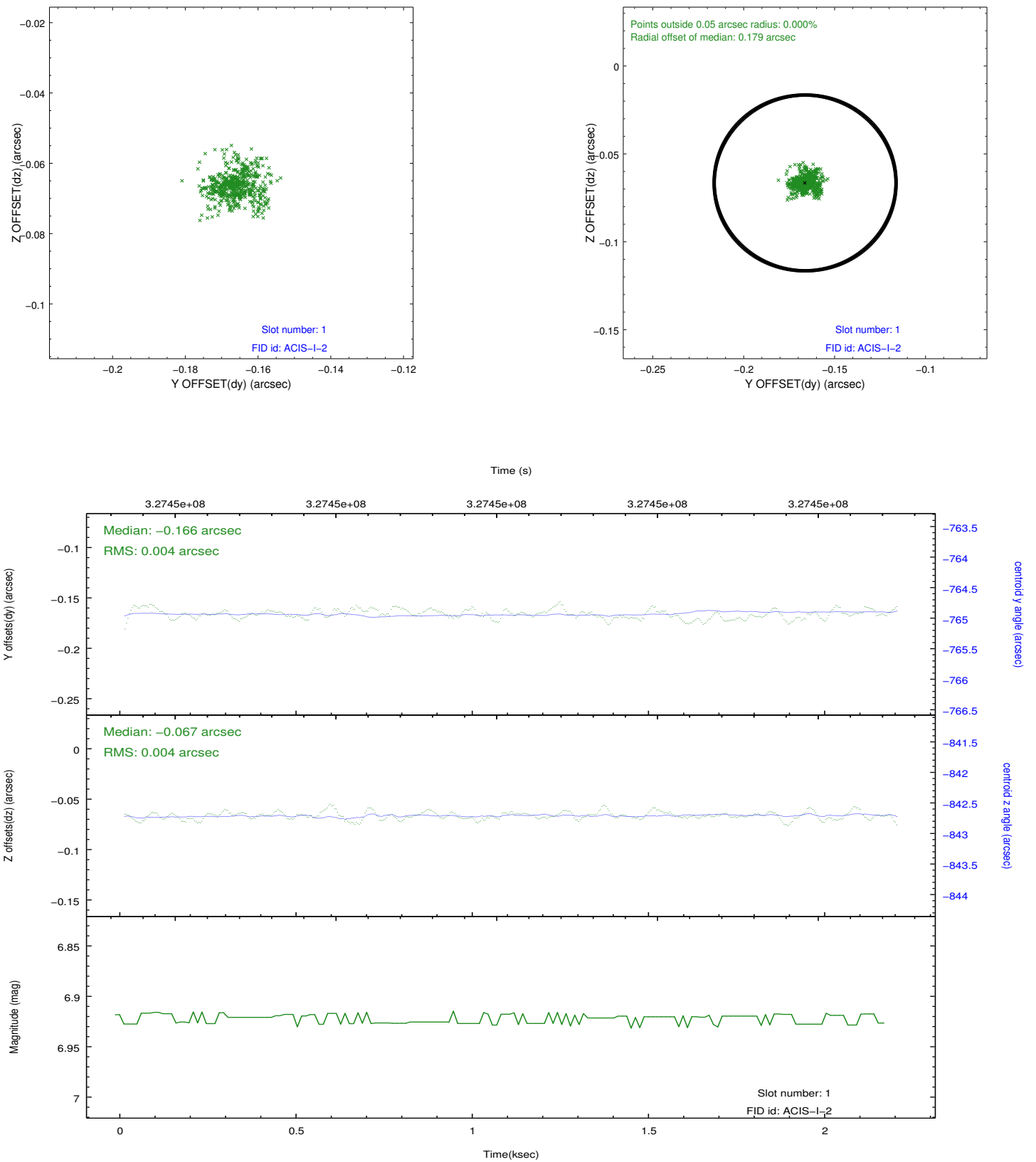


## 2.5 FID Slots

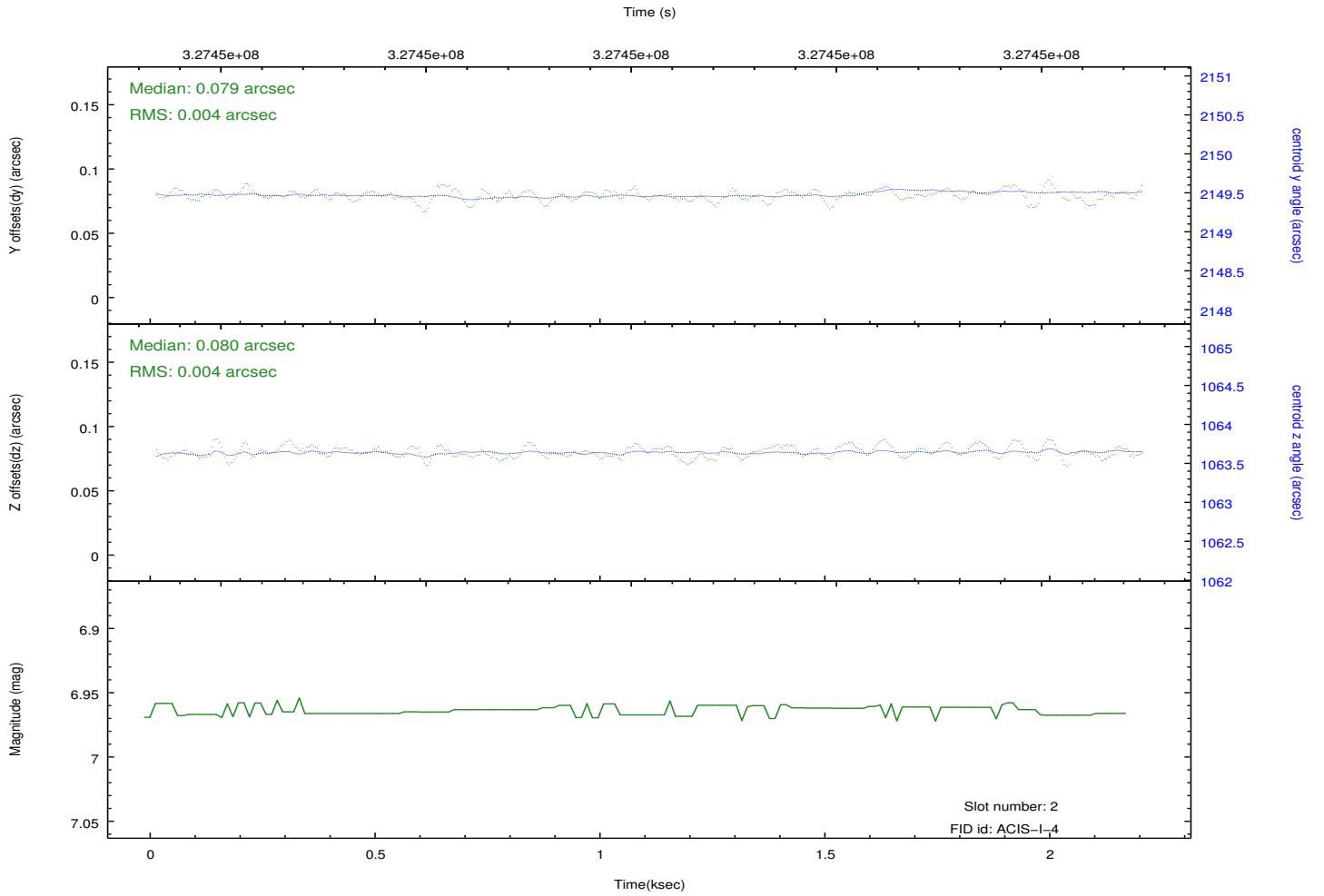
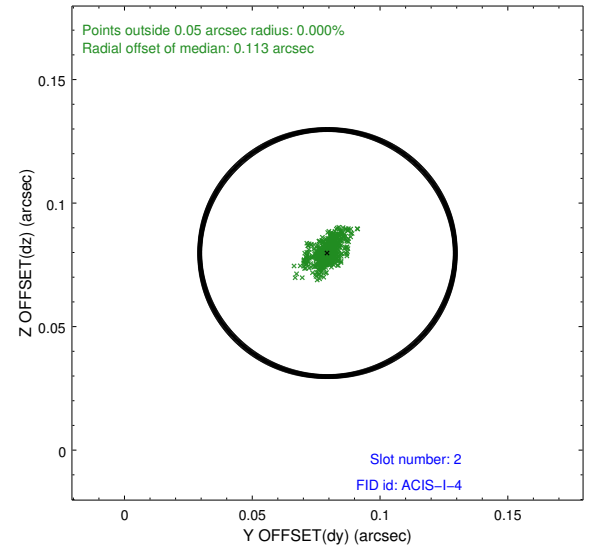
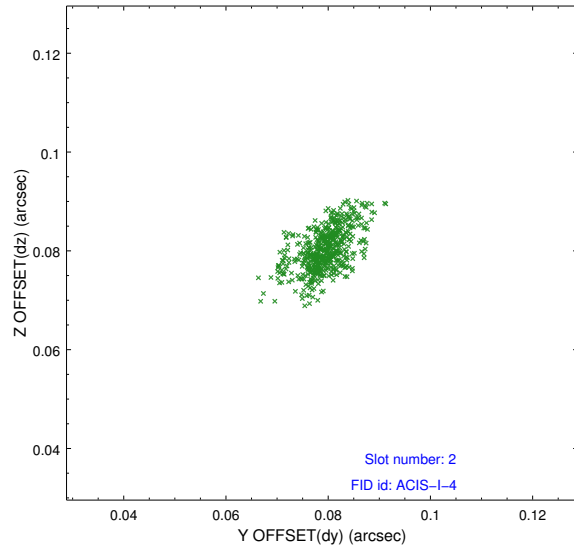
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18545903

### A.2 Comments