

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8716 - L2 Version 2  
Chandra X-Ray Center

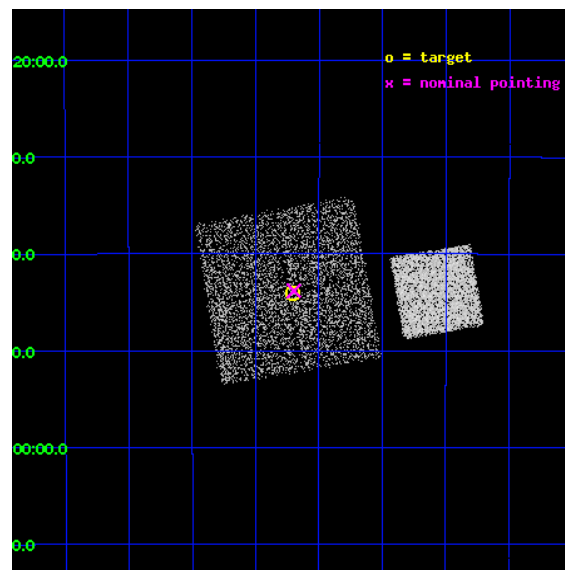
L2 Processing Date : May 14 2012

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# 1 Front

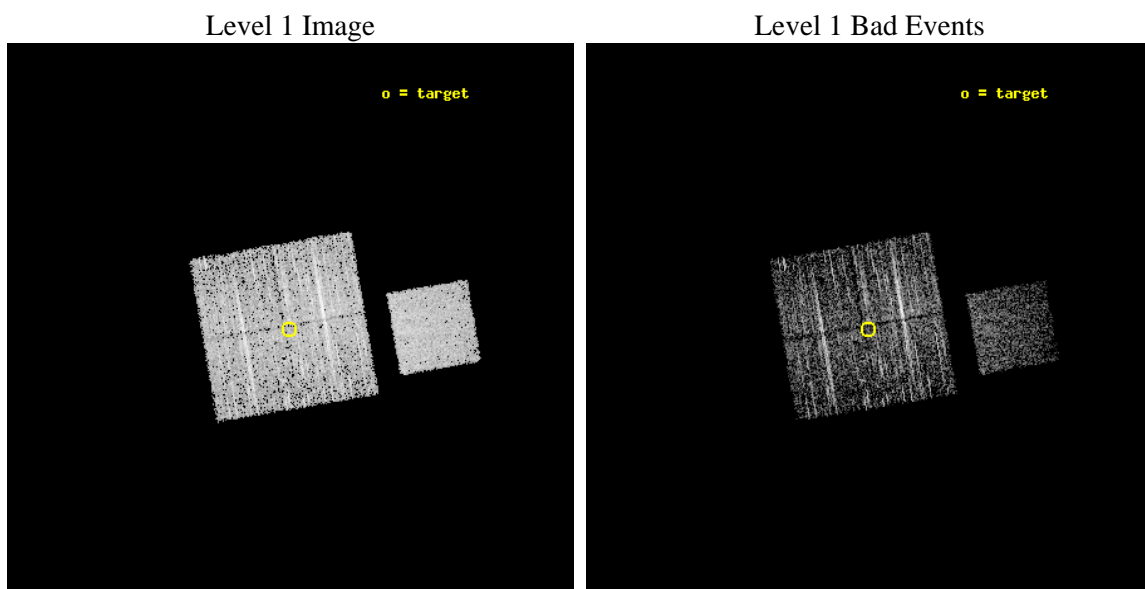
seq_num	400767	Sequence number
obs_id	8716	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.6763	Observer's specified target RA [deg]
dec_targ	-27.735445	Observer's specified target Dec [deg]
ra_nom	268.67437831402	Nominal RA [deg]
dec_nom	-27.73054329492	Nominal Dec [deg]
roll_nom	80.207837813681	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	2188.6000168324	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	15471	Number of level 2 events



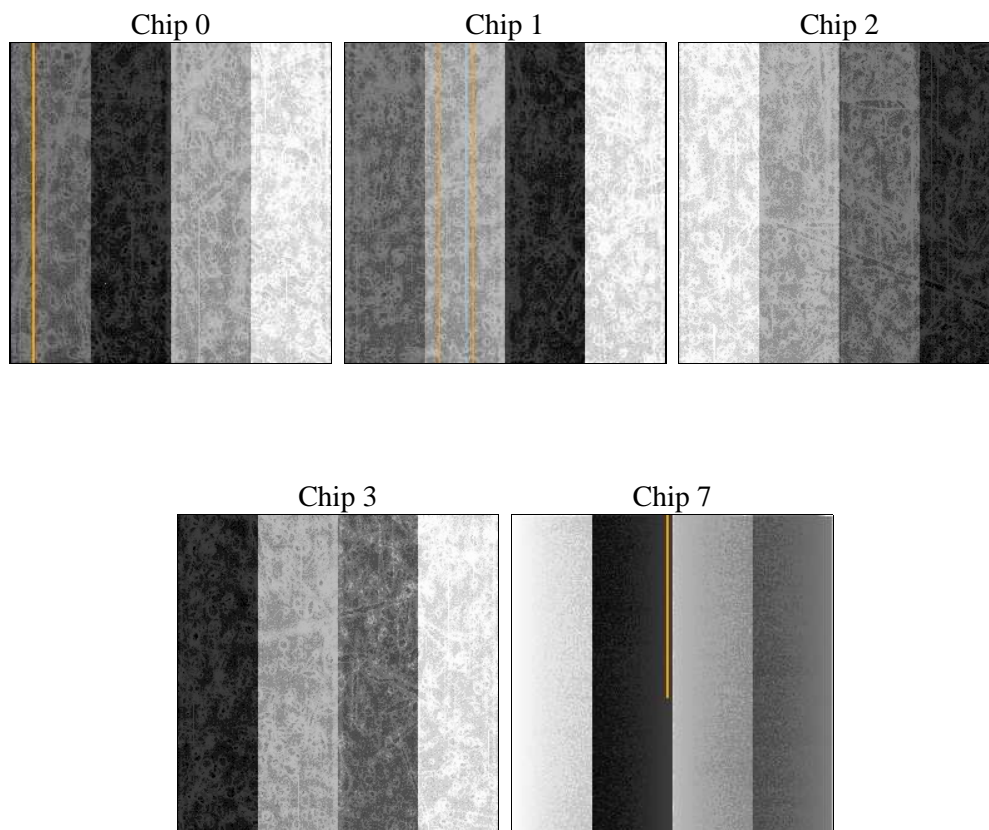
## 2 OBI

### 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	2012-05-14T23:31:53	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	2188.6000168324	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	101252	Number of level 1 events

### 2.1.4 Events

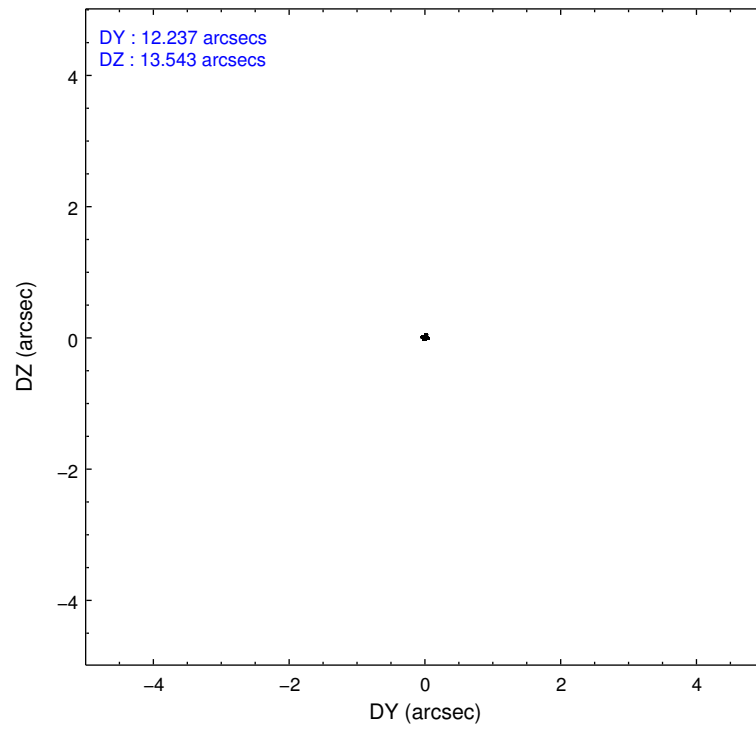
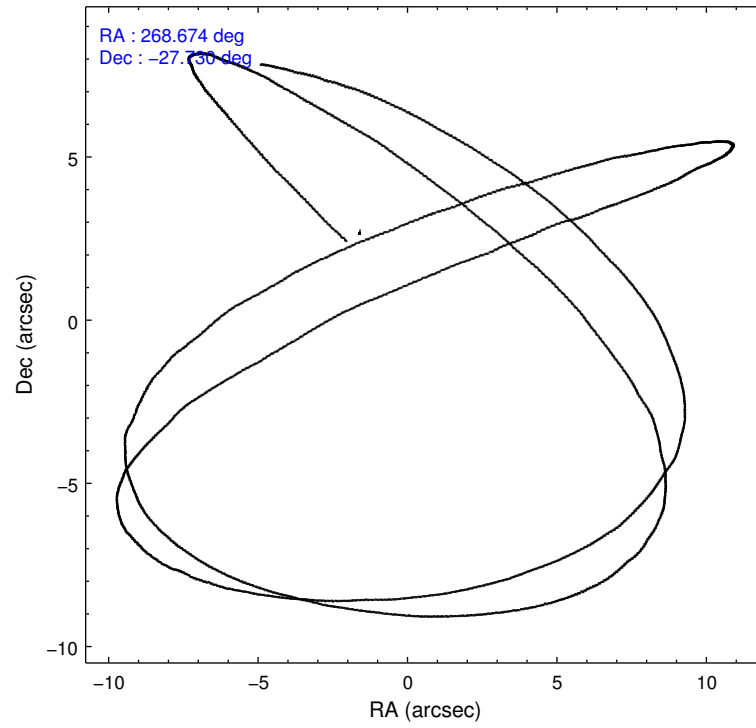
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	17738	18313	23033	19774	22394
rejected events	15843	16182	21008	17913	13368
rejected %	89%	88%	91%	90%	59%

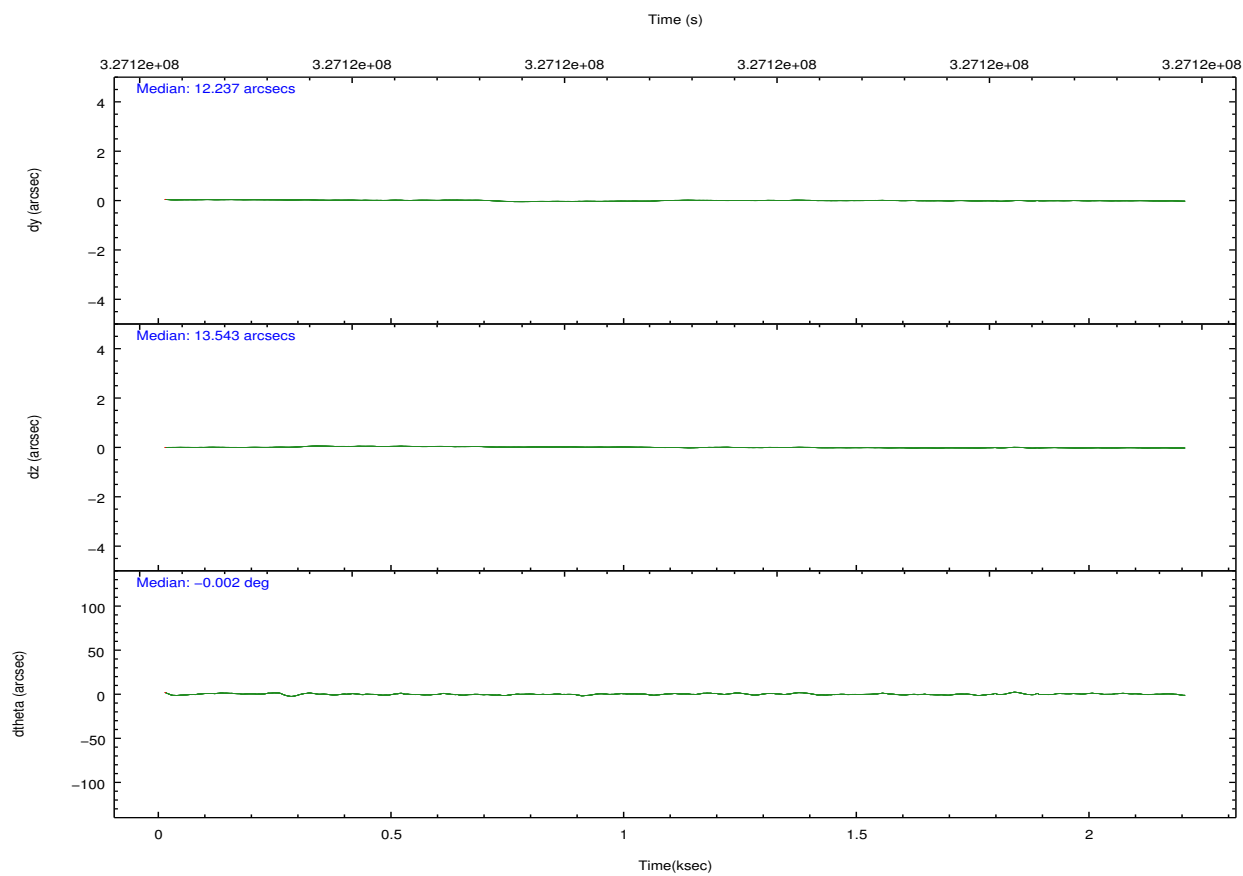
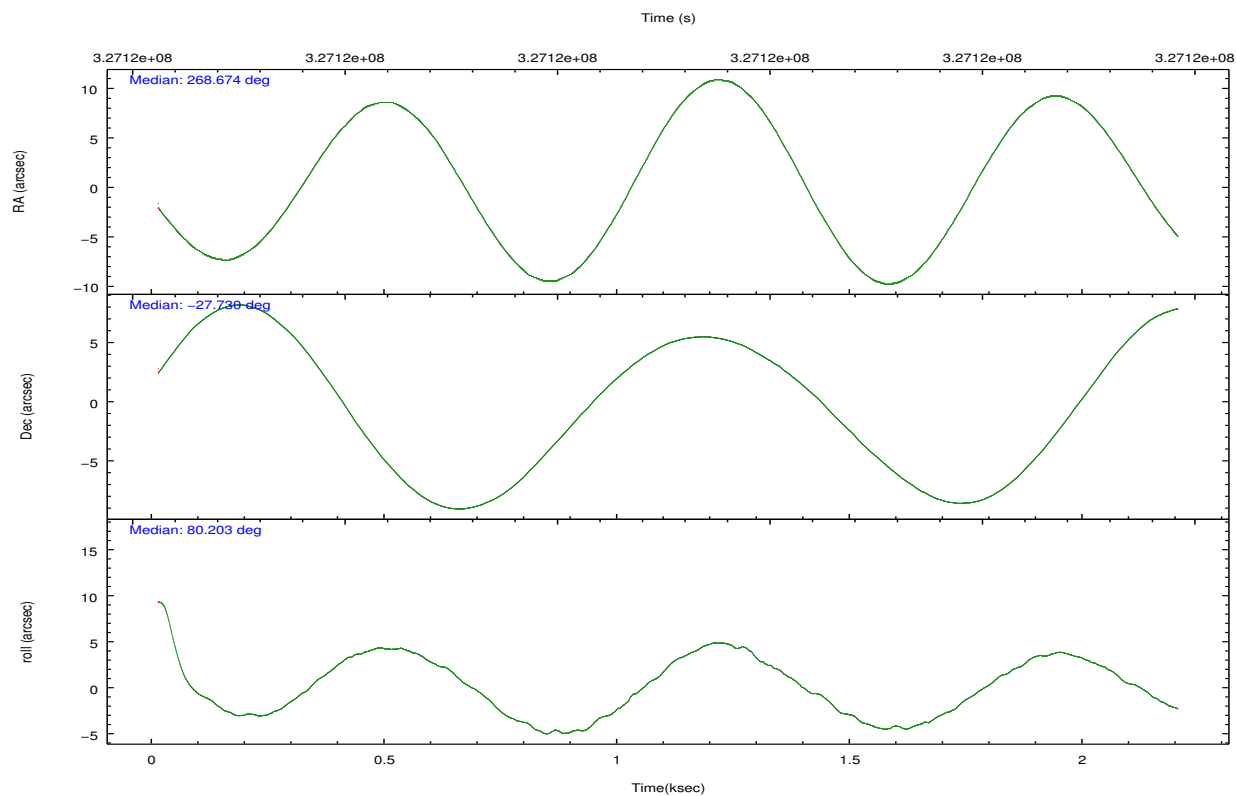
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	857	950	946	853	1013
	4%	5%	4%	4%	4%
grade 1 events	9	11	10	12	20
	0%	0%	0%	0%	0%
grade 2 events	491	537	536	473	2074
	2%	2%	2%	2%	9%
grade 3 events	227	244	231	217	973
	1%	1%	1%	1%	4%
grade 4 events	194	252	236	200	931
	1%	1%	1%	1%	4%
grade 5 events	635	731	674	783	2485
	3%	3%	2%	3%	11%
grade 6 events	359	473	387	394	5346
	2%	2%	1%	1%	23%
grade 7 events	14966	15115	20013	16842	9552
	84%	82%	86%	85%	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	268.685299	268.6743783140229	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.756482	-27.73054329492026	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004186	80.20783781368058	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)	327118862.184000	327118485.86591	CCD S5 on	N	N
Observation start date	2008-05-14T02:19:57	2008-05-14T02:14:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327120862.184000	327120996.09103	On-chip summing requested	N	N
Observation end date	2008-05-14T02:53:17	2008-05-14T02:56:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





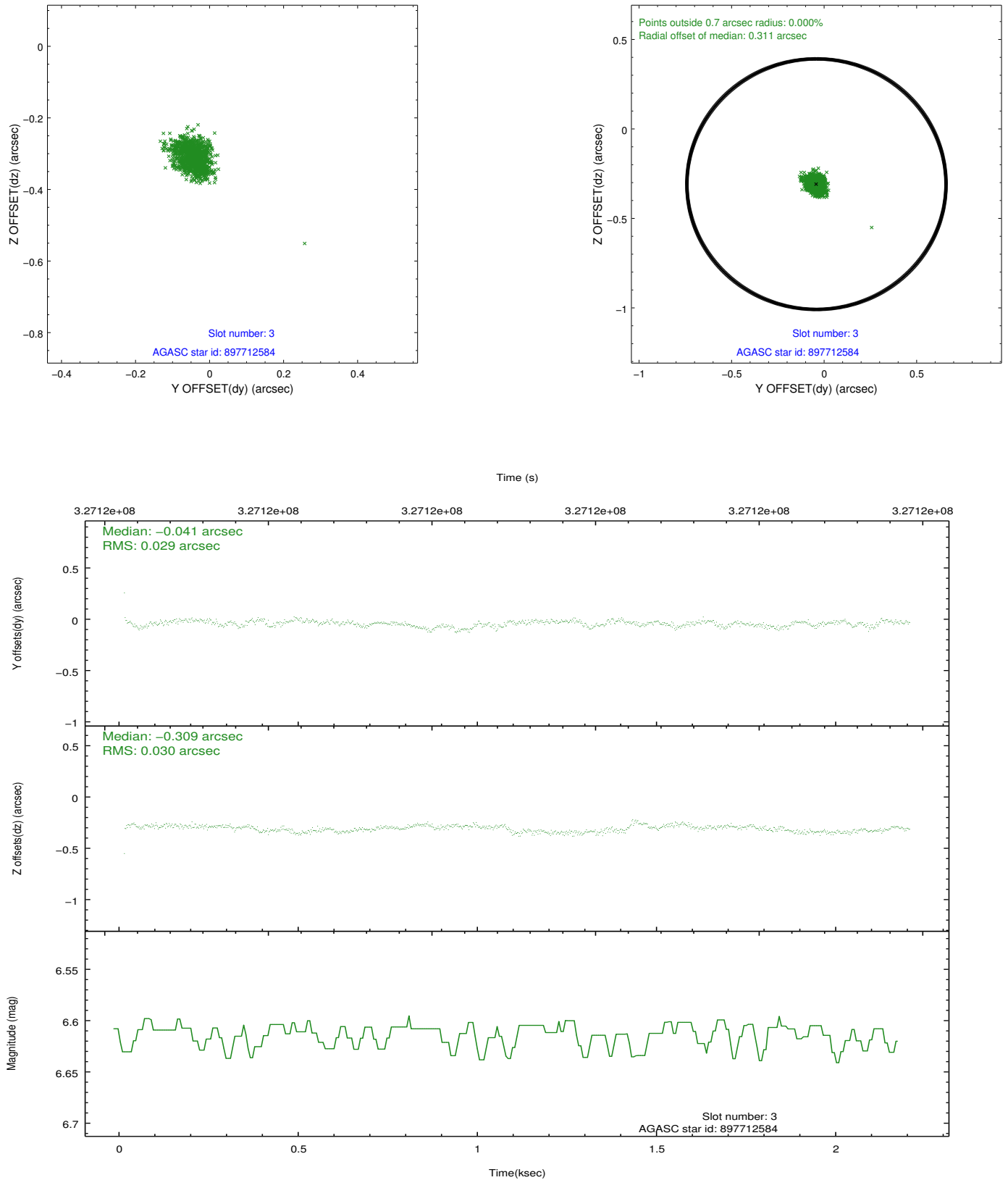
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-4	7.00	535	0.124	0.034	0.008	0.015	0.000000	0.000000	2147.39	1062.80
1	FID	ACIS-I-5	7.05	535	-0.215	0.030	0.006	0.010	0.000000	0.000000	-1817.09	1062.48
2	FID	ACIS-I-6	7.05	535	-0.008	0.003	0.009	0.015	0.000000	0.000000	389.61	1706.77
3	GUIDE	897712584	6.61	1070	-0.041	-0.309	0.043	0.067	268.003029	-28.022394	-1325.71	1967.48
4	GUIDE	897721048	7.76	1070	-0.039	0.211	0.059	0.099	268.989561	-28.030814	-807.56	-1122.05
5	GUIDE	897721112	8.70	1066	0.093	0.013	0.073	0.119	268.338159	-28.057278	-1260.56	896.52
6	GUIDE	898236640	9.01	1066	0.135	0.206	0.104	0.163	268.893541	-28.185549	-1408.80	-918.08
7	GUIDE	897717760	7.25	1069	-0.140	-0.126	0.068	0.101	268.392593	-27.282645	1514.31	1217.17

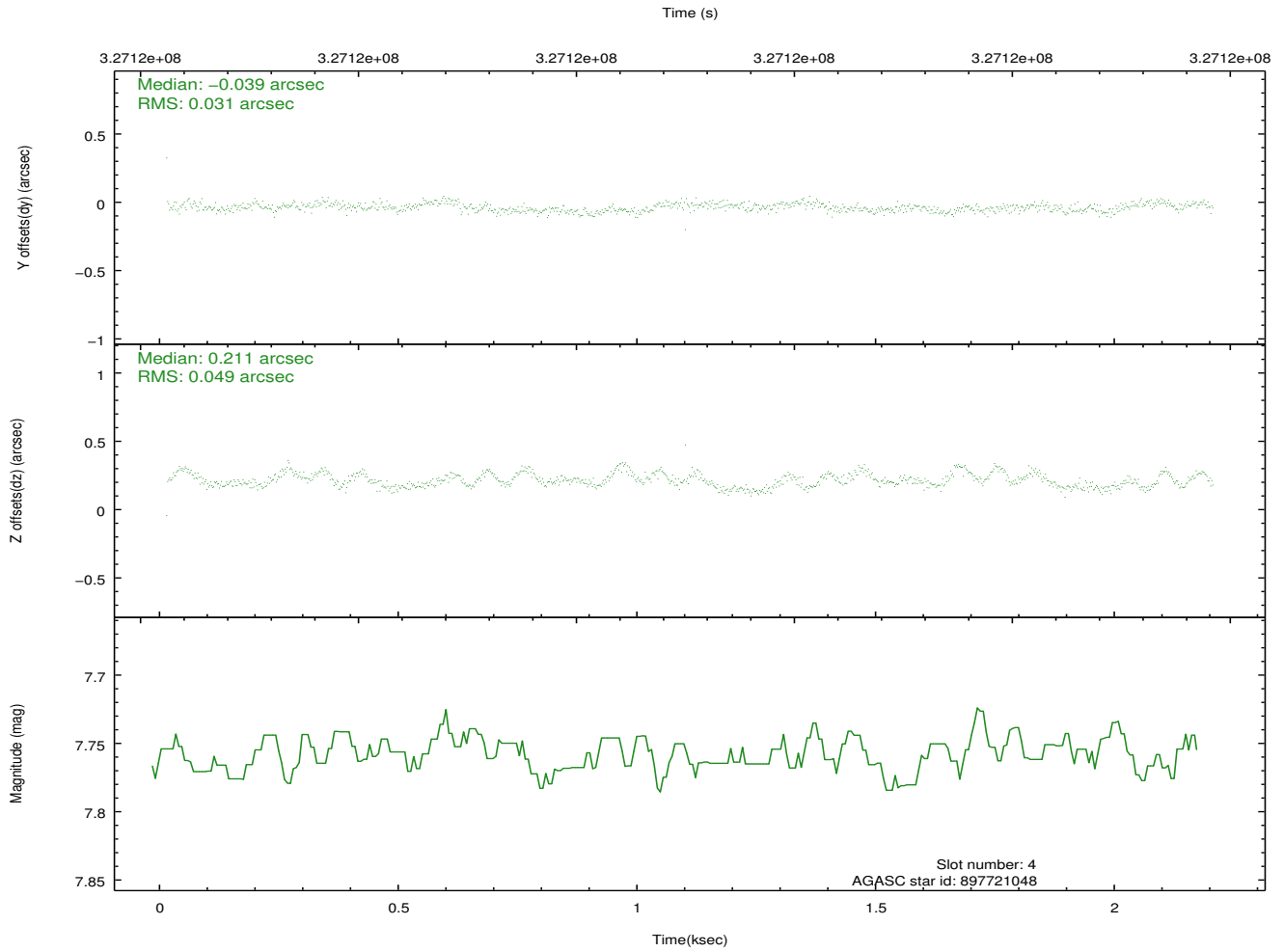
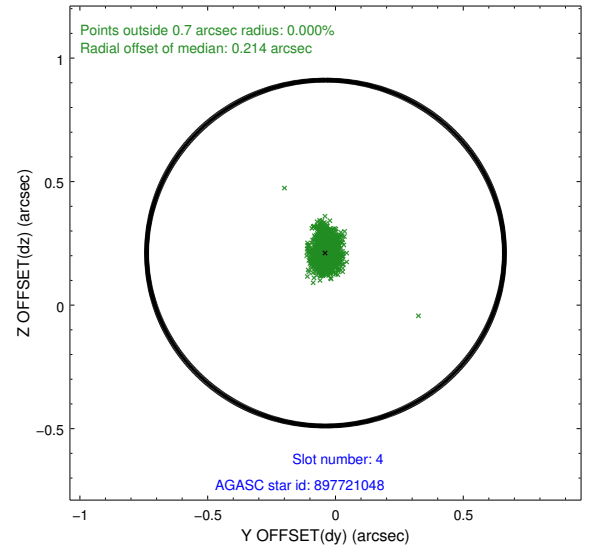
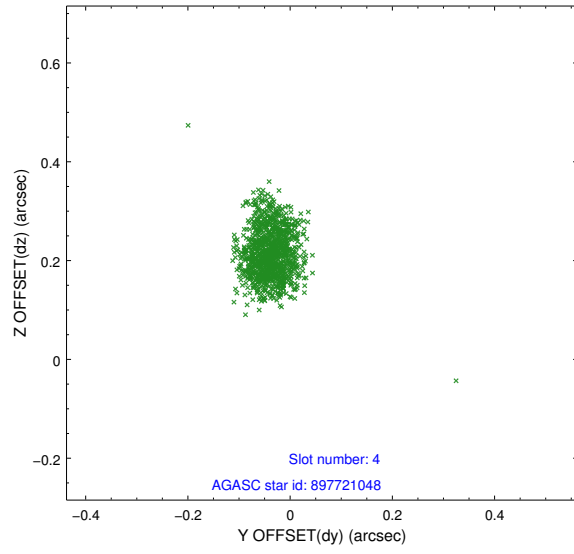


## 2.4 Star Slots

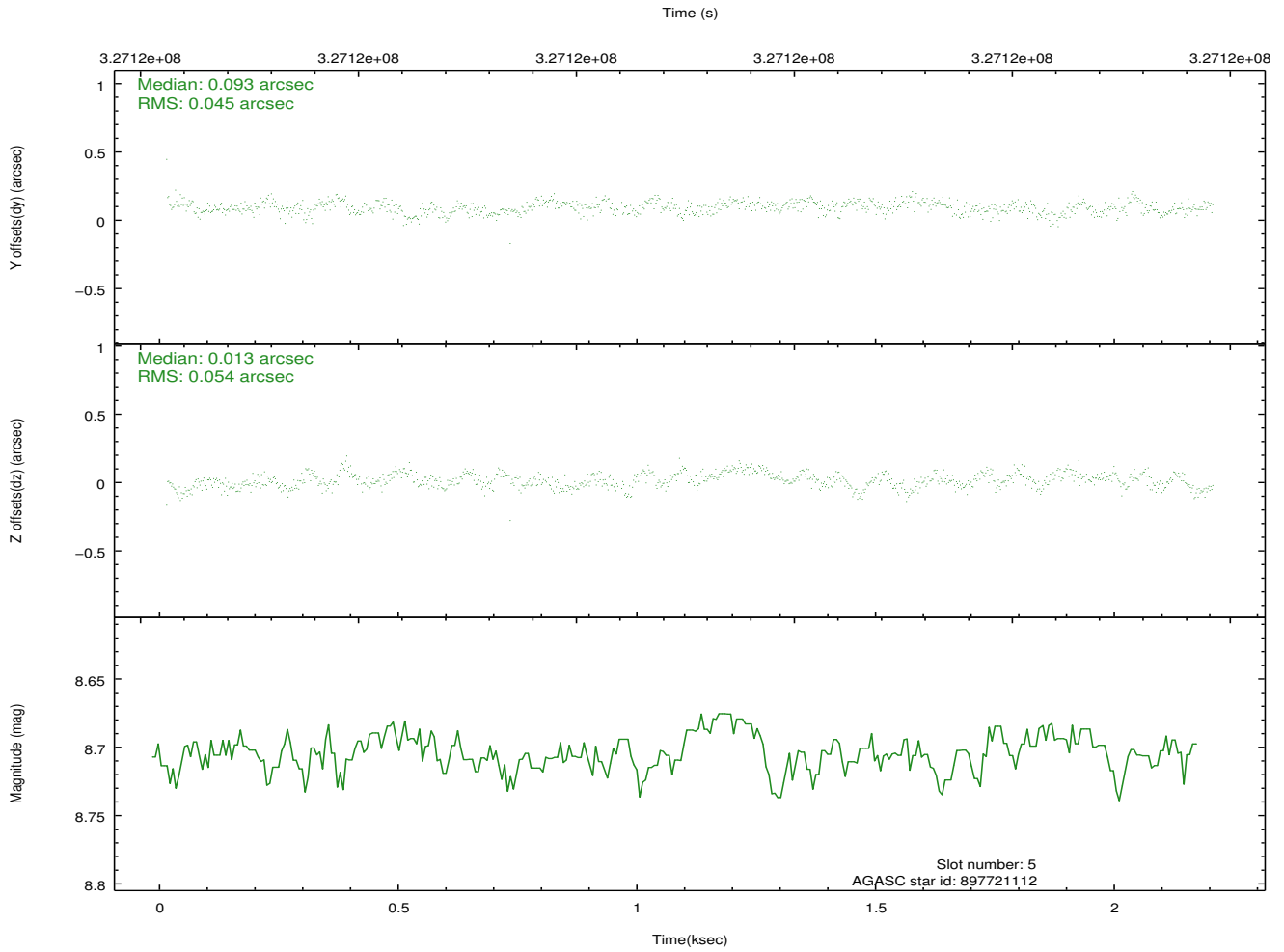
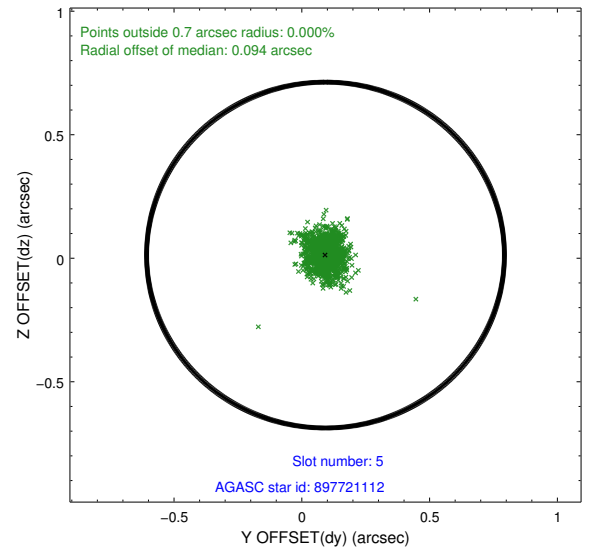
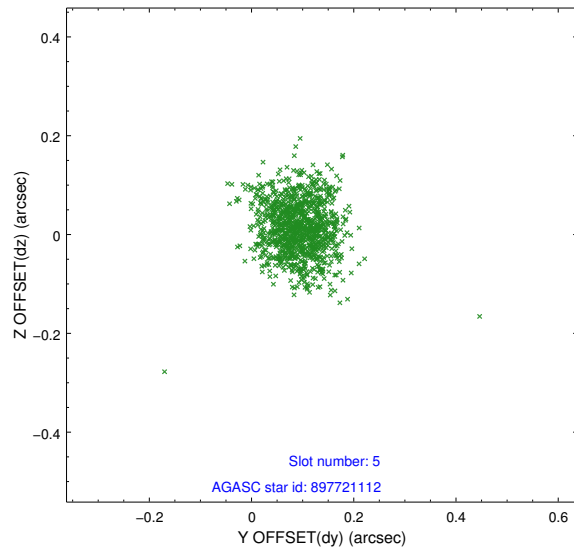
### 2.4.1 Slot 3



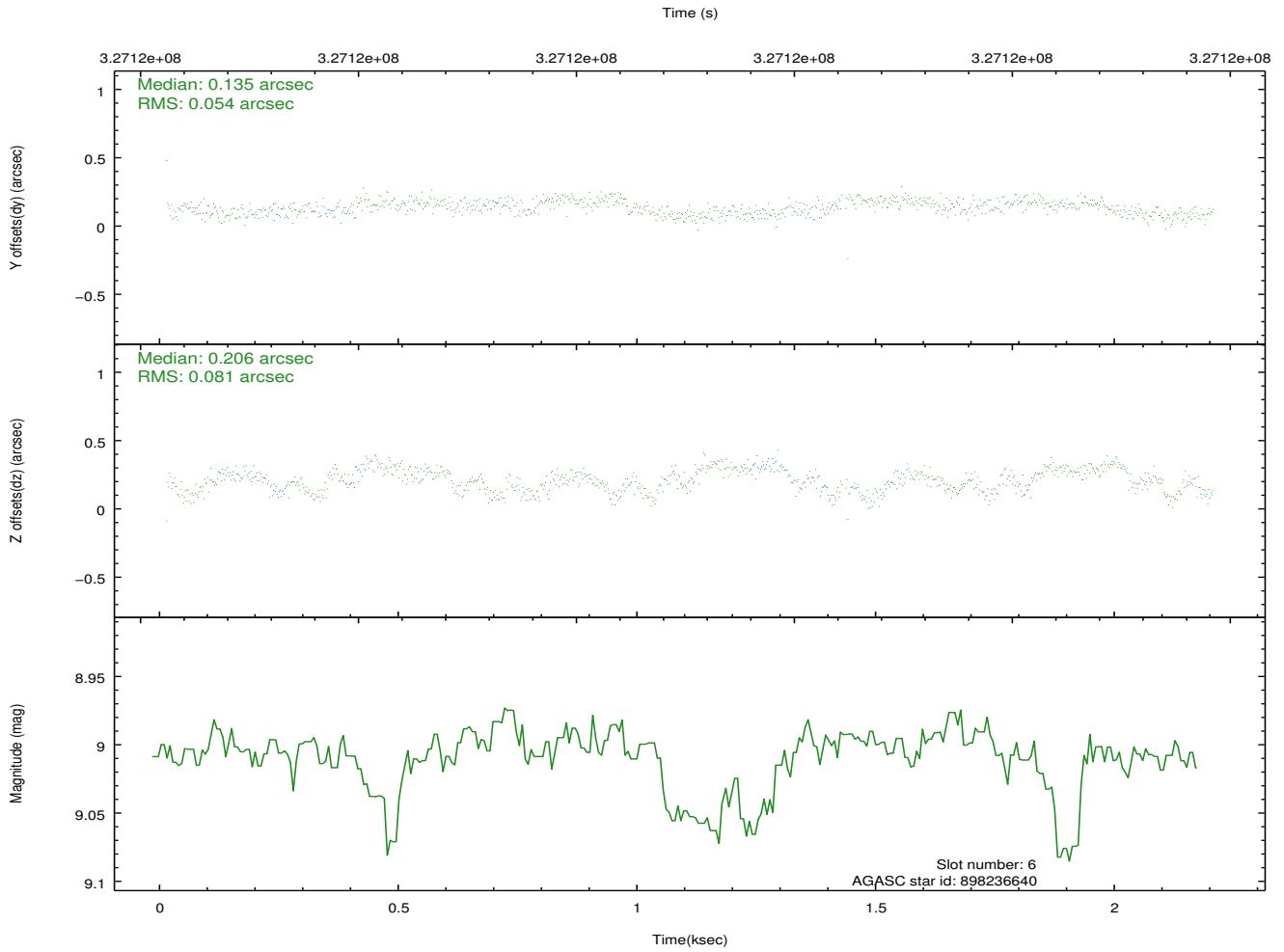
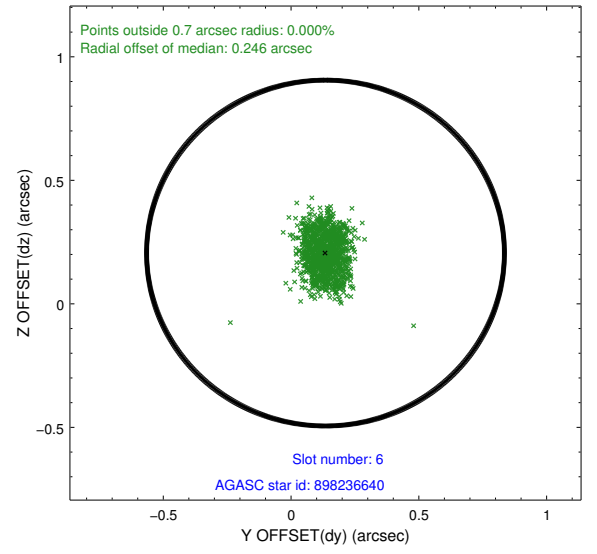
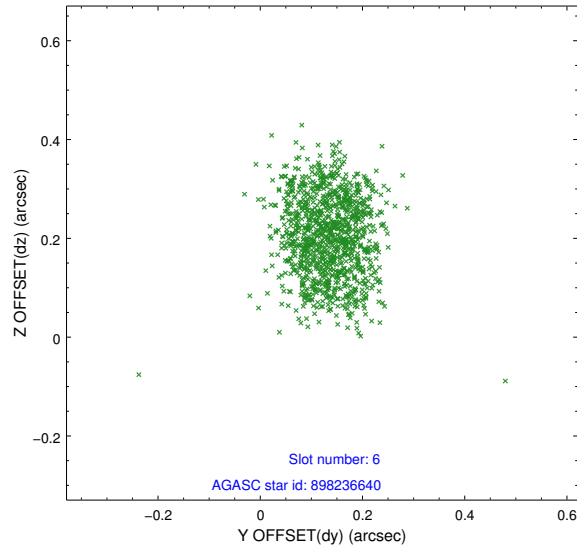
## 2.4.2 Slot 4



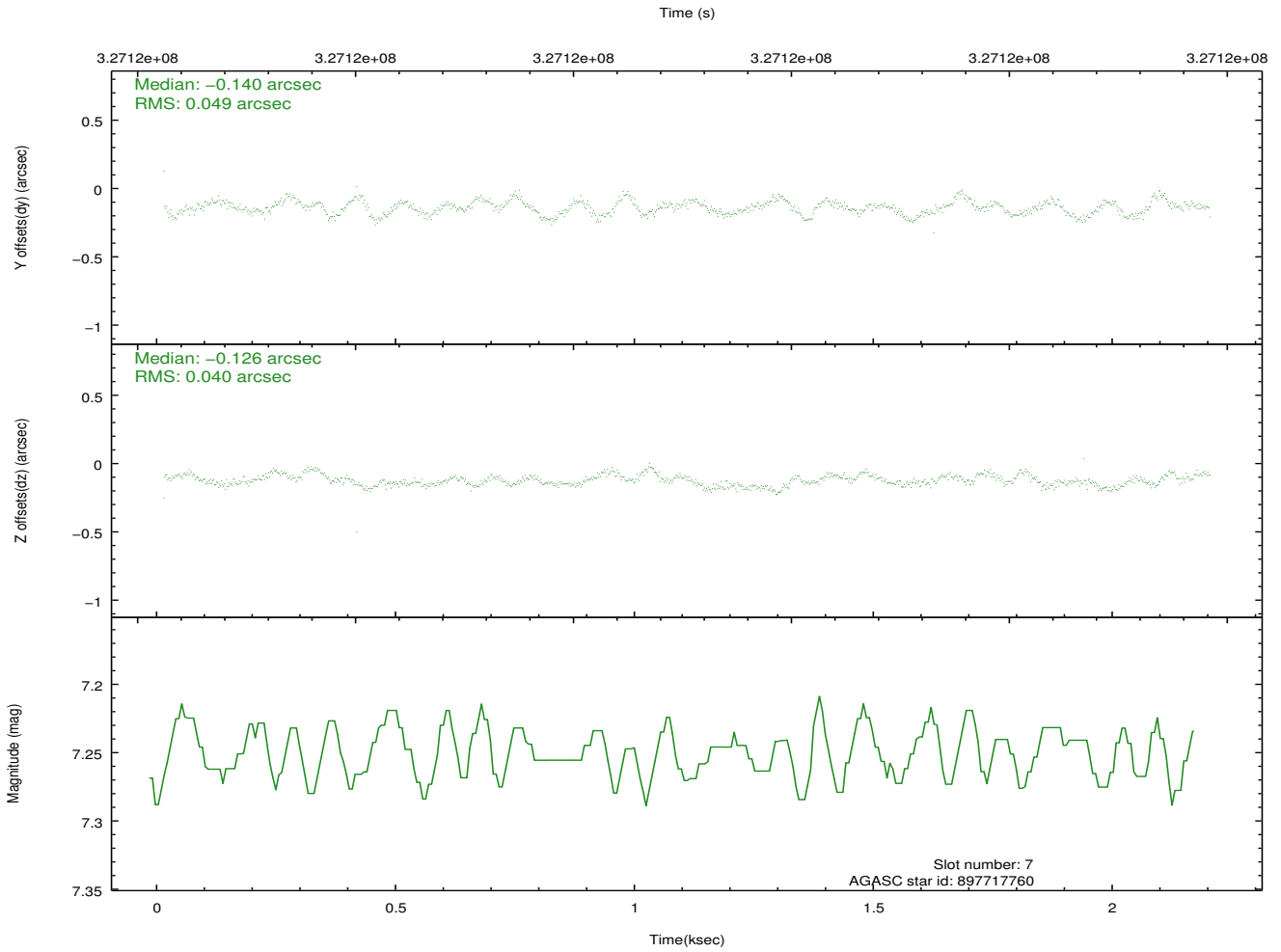
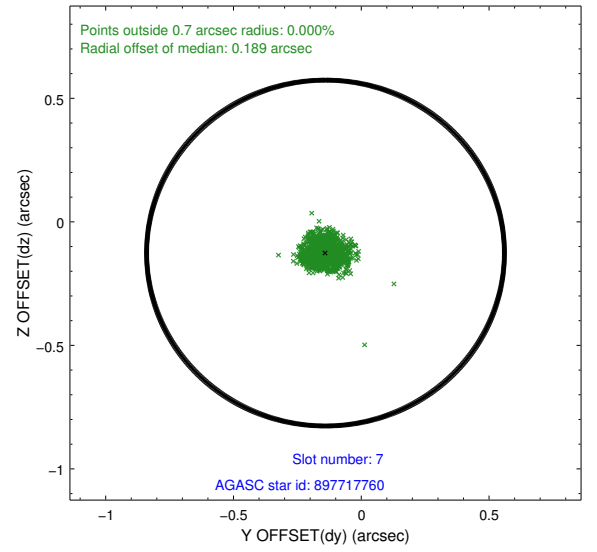
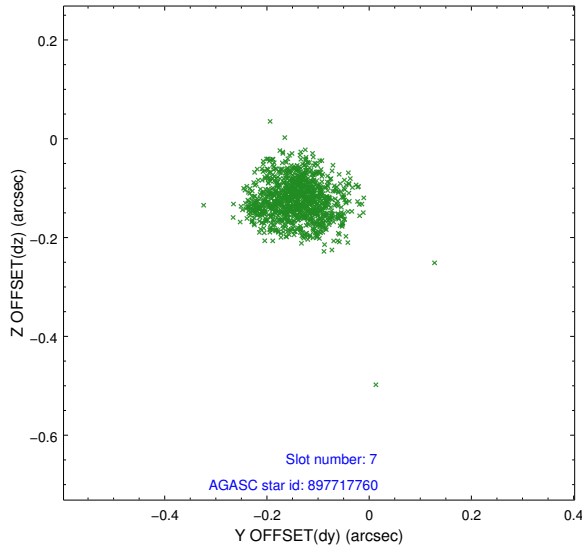
### 2.4.3 Slot 5



## 2.4.4 Slot 6

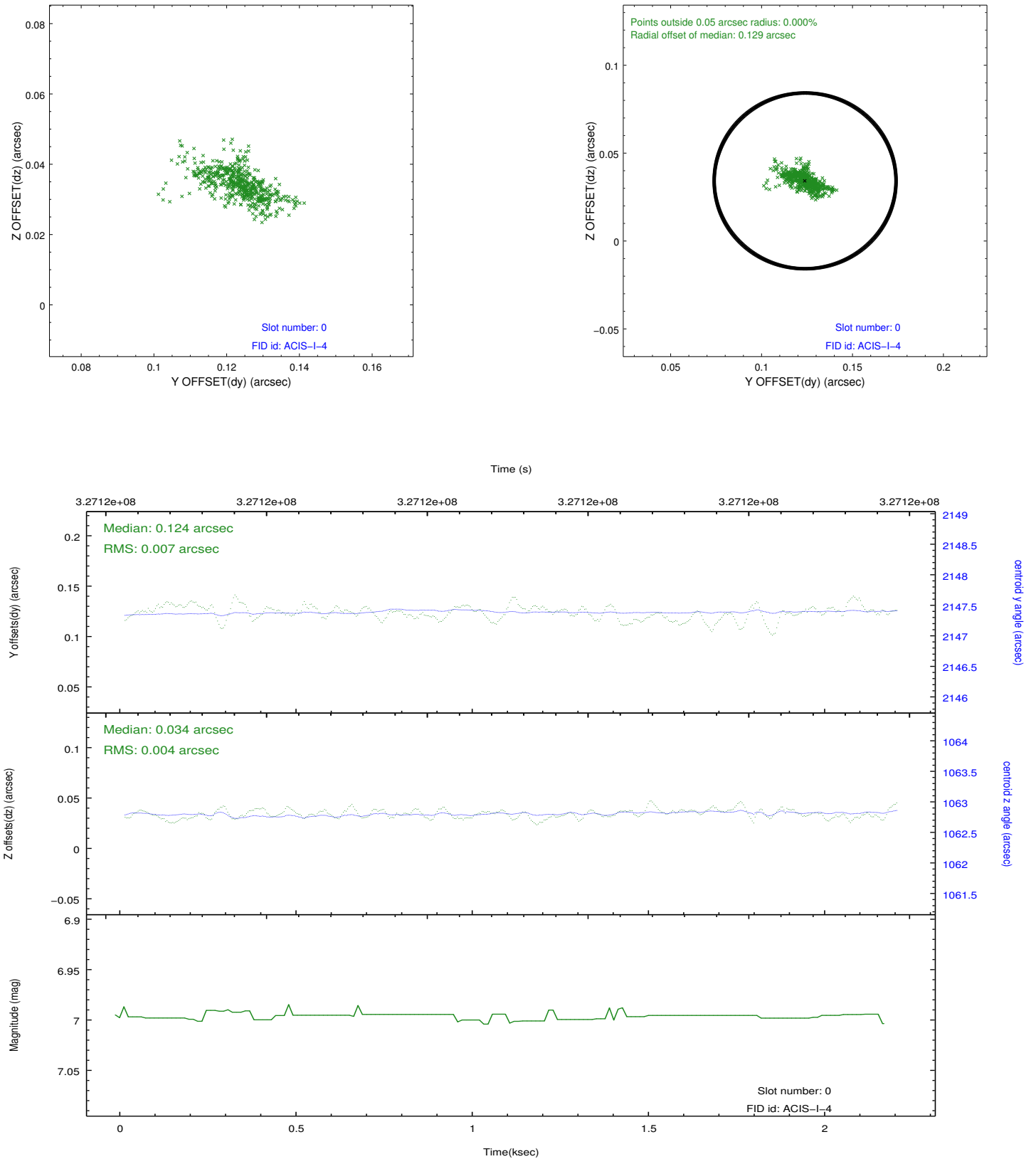


## 2.4.5 Slot 7

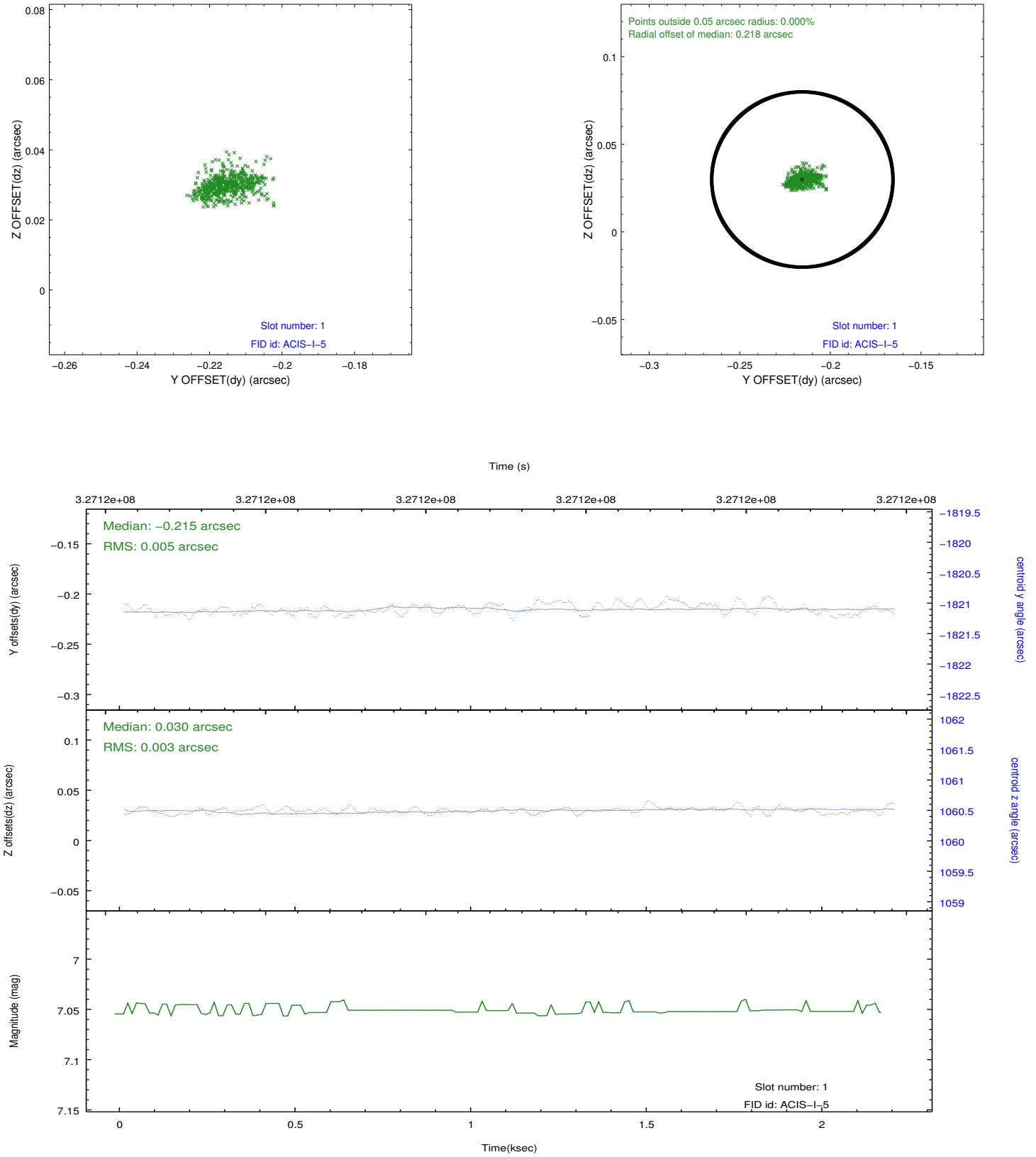


## 2.5 FID Slots

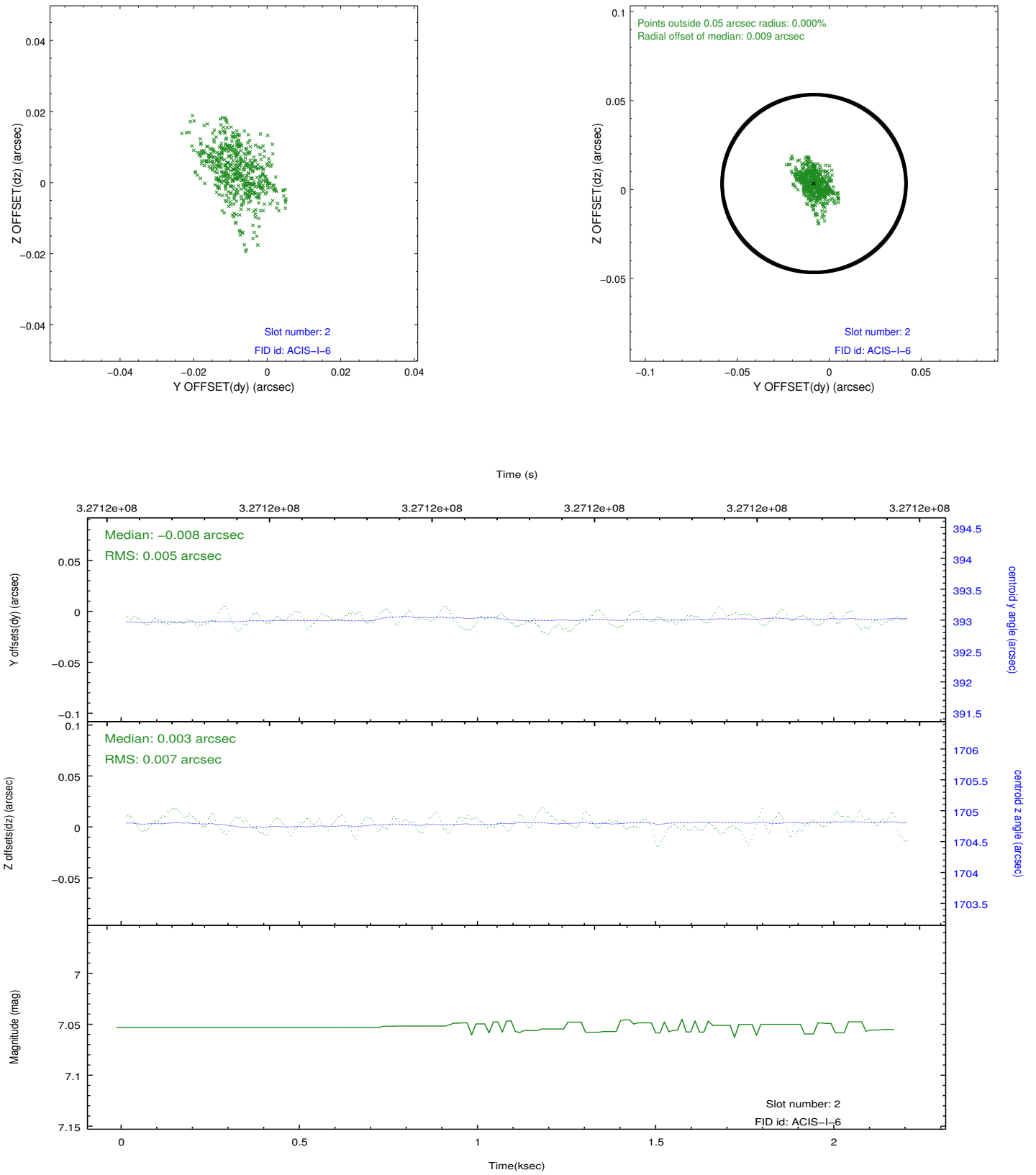
### 2.5.1 Slot 0



## 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.