

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9720 - L2 Version 2  
Chandra X-Ray Center

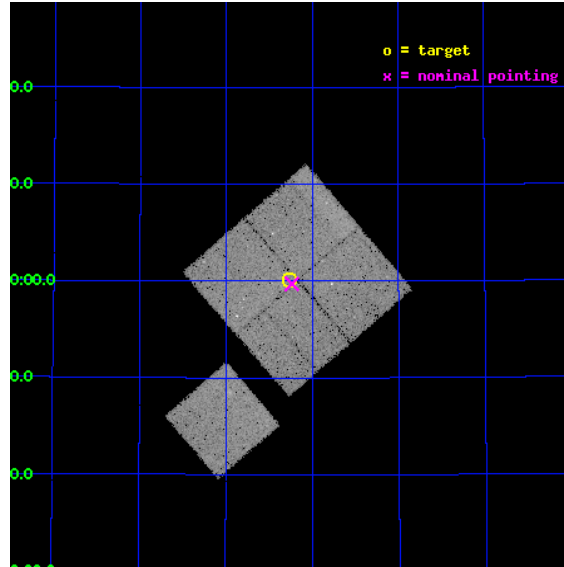
L2 Processing Date : May 16 2012

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# 1 Front

seq_num	900796	Sequence number
obs_id	9720	Observation id
title	The Evolution of Faint AGN at High Redshift	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	AEGIS-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.064583	Observer's specified target RA [deg]
dec_targ	53.002694	Observer's specified target Dec [deg]
ra_nom	215.05922360439	Nominal RA [deg]
dec_nom	52.99526804287	Nominal Dec [deg]
roll_nom	229.21297380093	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28157.300216556	Sum of GTIs [s]
livetime	27789.404360123	Livetime [s]
ontime0	28151.018266022	Sum of GTIs [s]
ontime1	28157.300216556	Sum of GTIs [s]
ontime2	28144.736384928	Sum of GTIs [s]
ontime3	28157.300216556	Sum of GTIs [s]
ontime6	28157.300216556	Sum of GTIs [s]
l2events	95020	Number of level 2 events

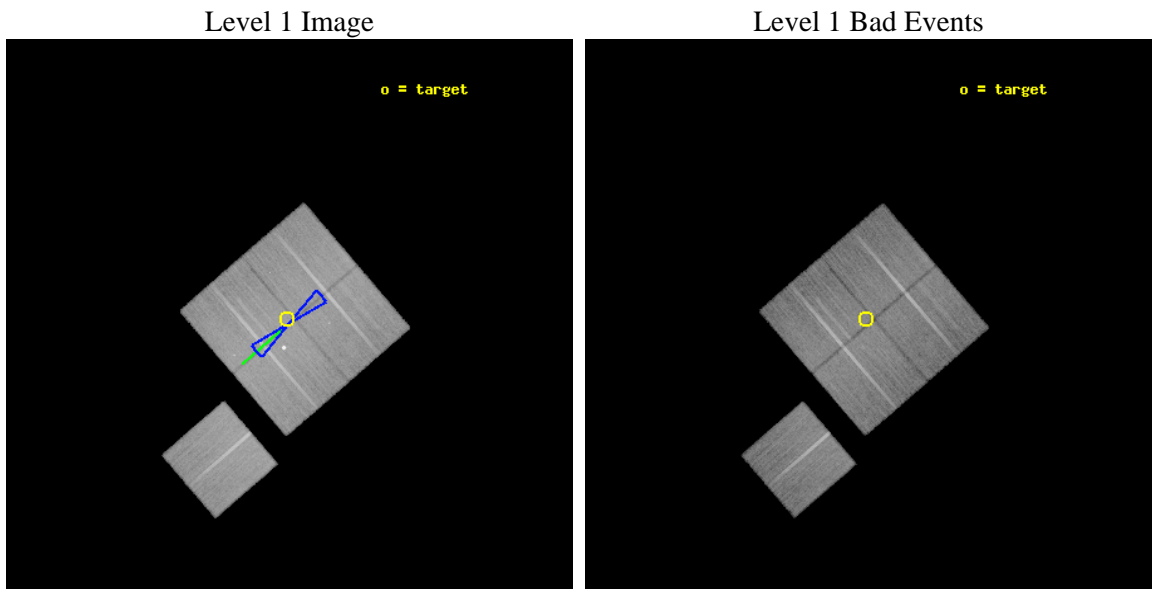




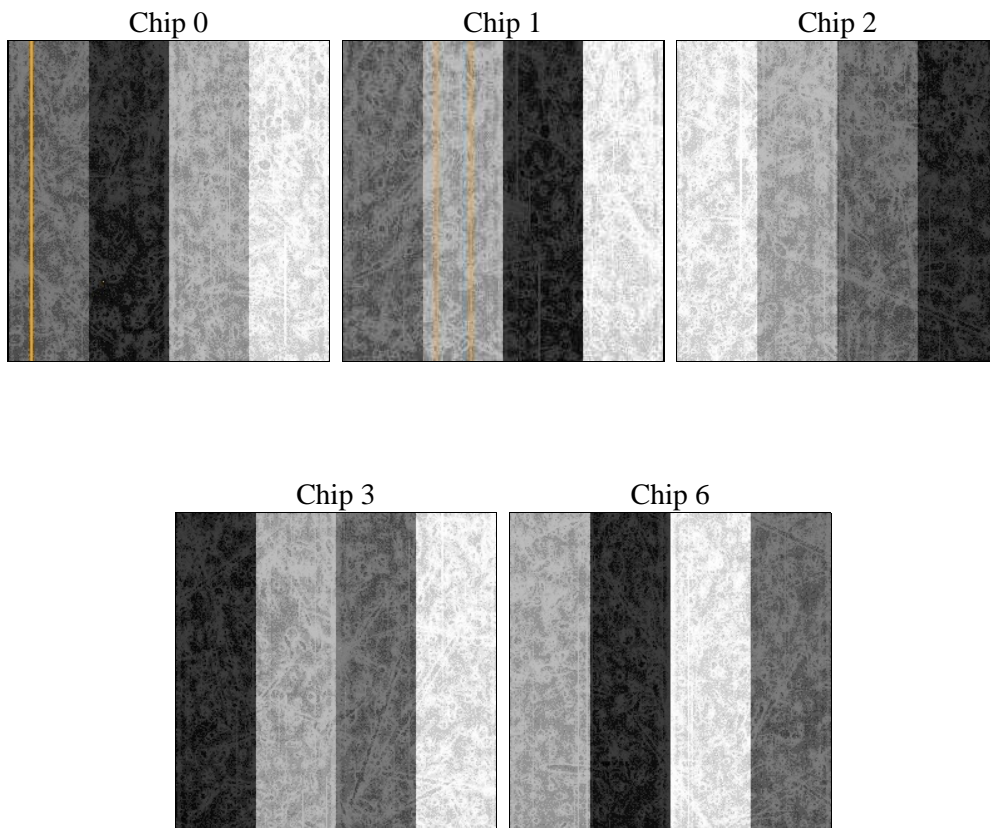
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	28157.300216556	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	28151.018266022	Sum of GTIs [s]
date	2012-05-16T15:16:08	Date and time of file creation	ontime1	28157.300216556	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	28144.736384928	Sum of GTIs [s]
			ontime3	28157.300216556	Sum of GTIs [s]
			ontime6	28157.300216556	Sum of GTIs [s]
			l1events	1103916	Number of level 1 events

### 2.1.4 Events

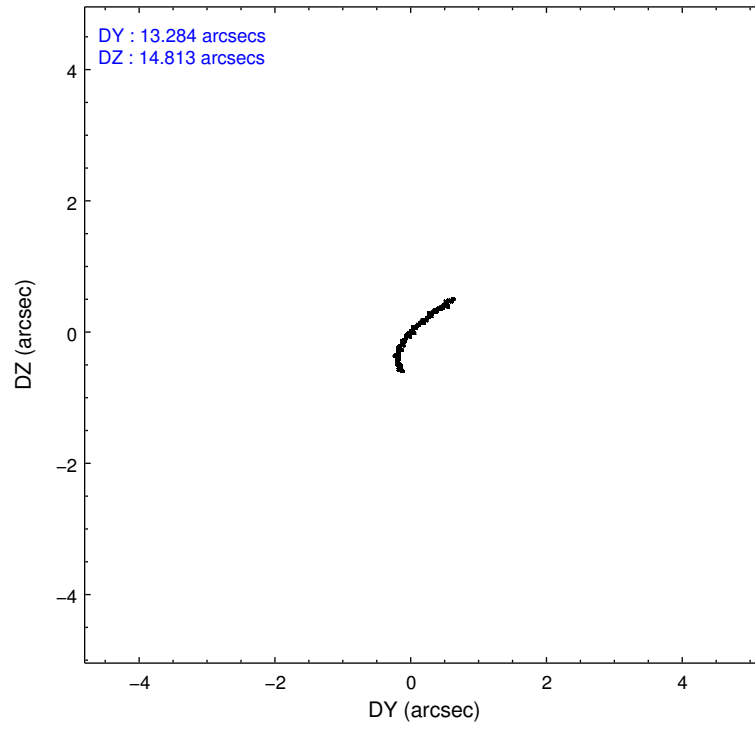
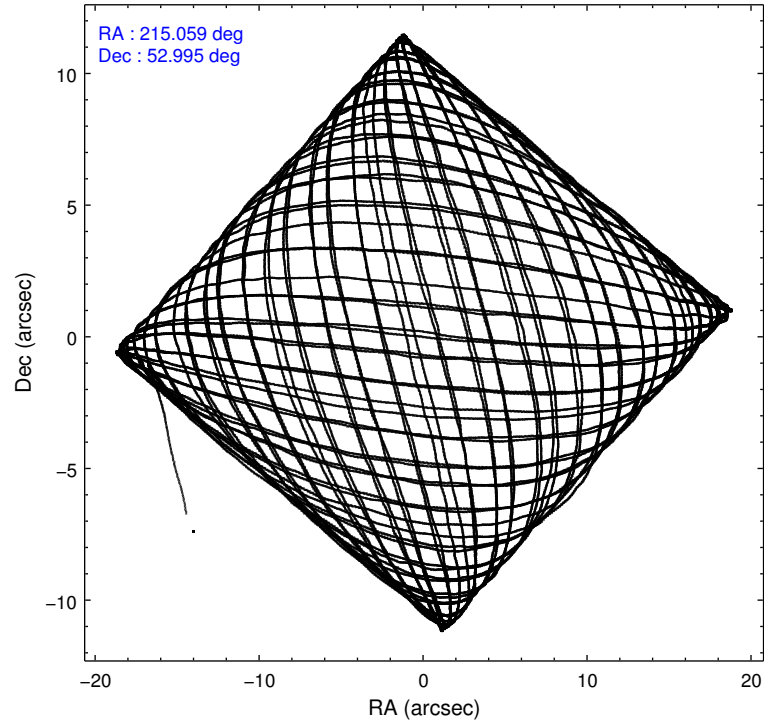
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	207734	209602	240373	223649	222558
rejected events	185104	184207	210173	201773	199766
rejected %	89%	87%	87%	90%	89%

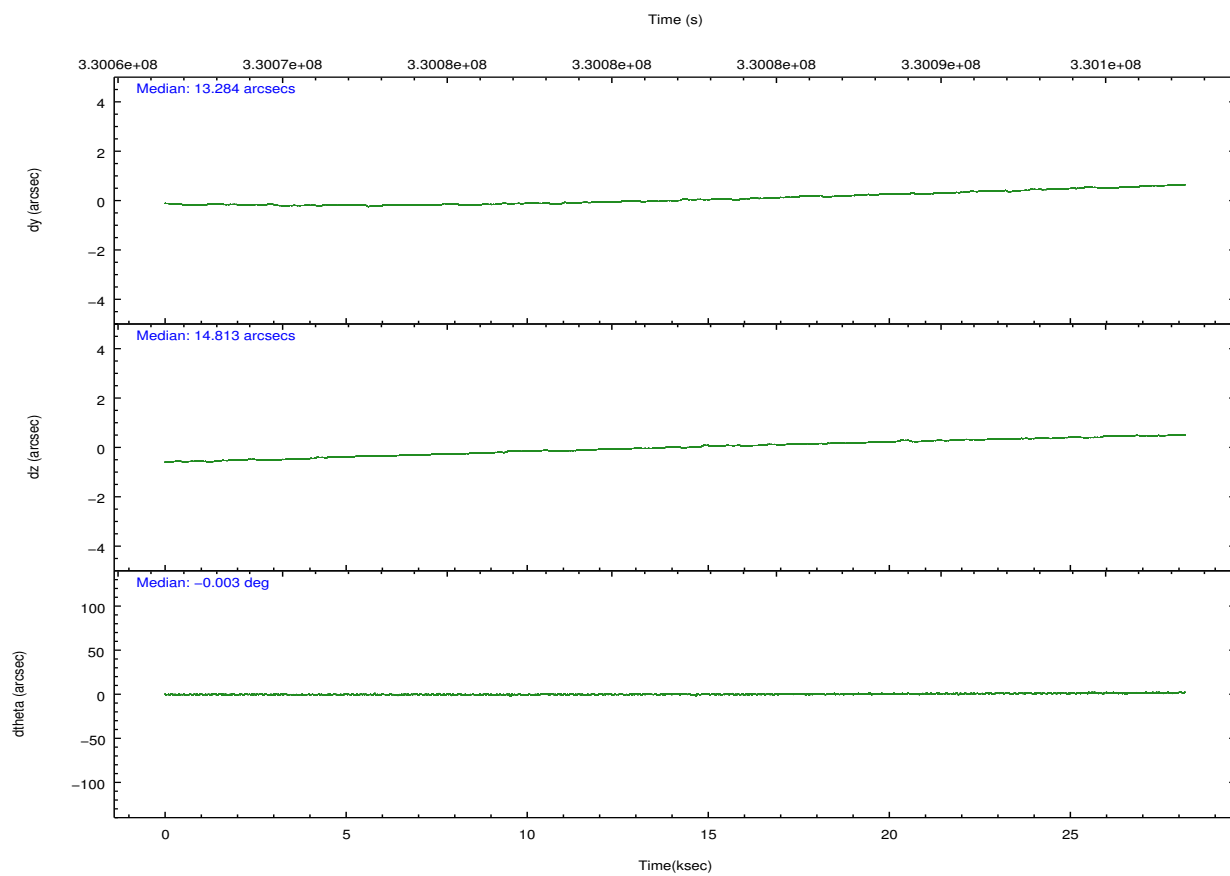
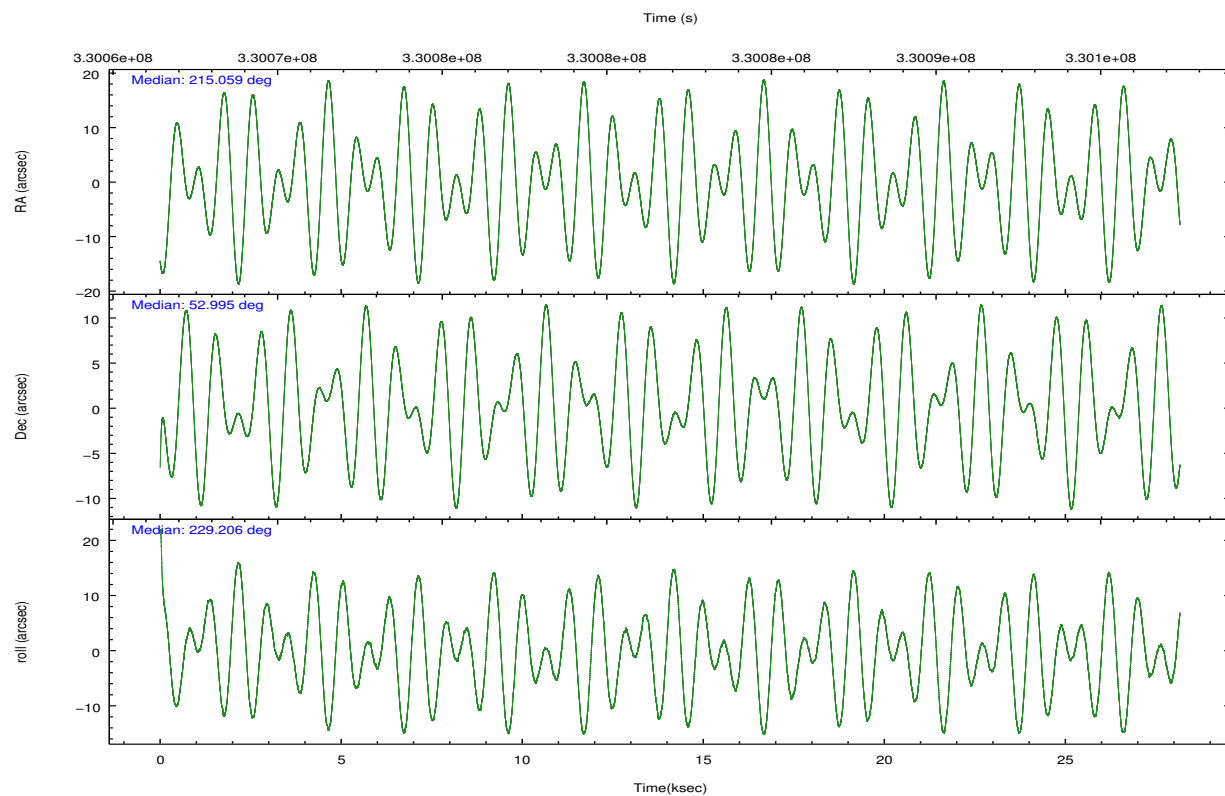
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8170	9317	7813	7976	8111
	3%	4%	3%	3%	3%
grade 1 events	132	121	124	130	100
	0%	0%	0%	0%	0%
grade 2 events	5569	5909	5411	4858	5053
	2%	2%	2%	2%	2%
grade 3 events	2486	2714	9385	2472	2524
	1%	1%	3%	1%	1%
grade 4 events	2363	2686	3815	2368	2478
	1%	1%	1%	1%	1%
grade 5 events	7955	8881	7628	9368	8806
	3%	4%	3%	4%	3%
grade 6 events	4340	5087	4141	4447	4935
	2%	2%	1%	1%	2%
grade 7 events	176719	174887	202056	192030	190551
	85%	83%	84%	85%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	215.067608	215.0592236043874	CCD I2 on	Y	Y
[deg] Pointing Dec	53.022319	52.99526804286958	CCD I3 on	Y	Y
[deg] Pointing Roll	228.997590	229.2129738009338	CCD S0 on	N	N
[deg] Roll angle	50.000000	50.000000	CCD S1 on	N	N
[deg] Roll tolerance	10.000000	10.000000	CCD S2 on	O1	Y
Roll constraint allows 180D rotation	Y	Y	CCD S3 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S4 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S5 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	Number of optional ACIS chips dropped	0	0
[mm] SIM translation stage offset	0	-0.005018542100998502	On-chip summing requested	N	N
[s] Observation start time (MET)	330068004.184000	330066842.64736	Subarray requested	NONE	NONE
Observation start date	2008-06-17T05:32:19	2008-06-17T05:14:02	Alternating exposures requested	N	N
[s] Observation end time (MET)	330096004.184000	330096662.97382	[s] Primary exposure time	0.000000	3.1
Observation end date	2008-06-17T13:18:59	2008-06-17T13:31:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect



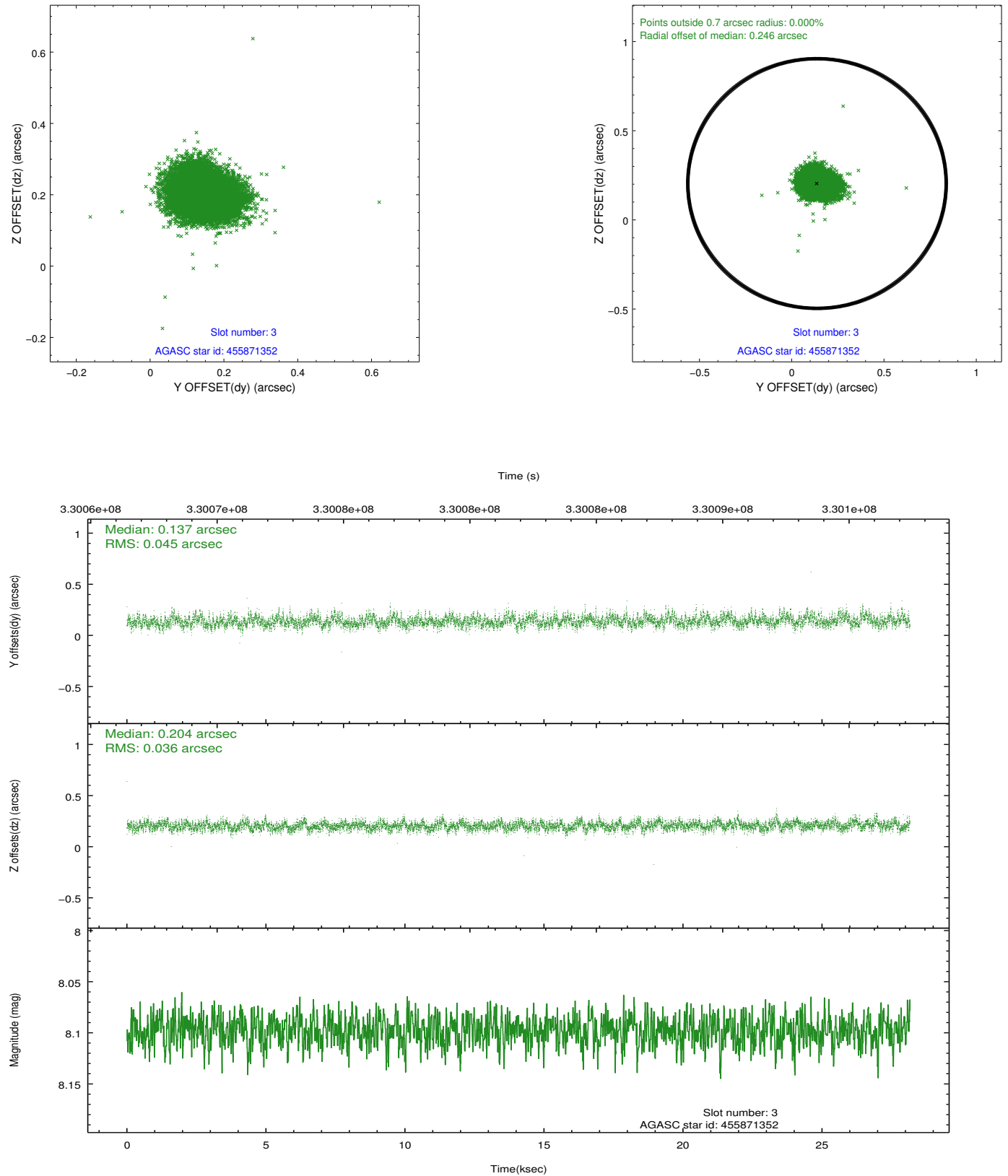


### Slot Statistics

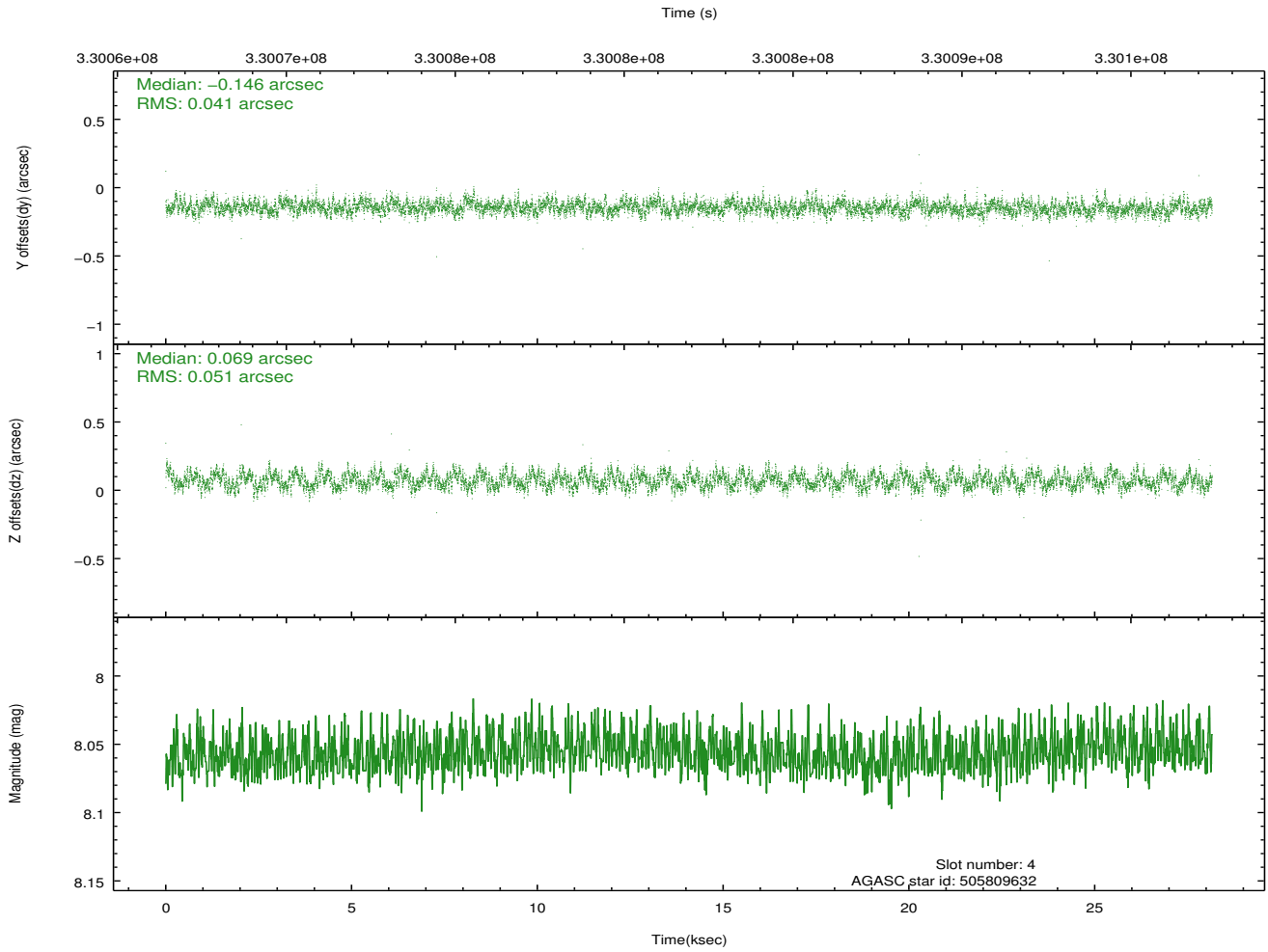
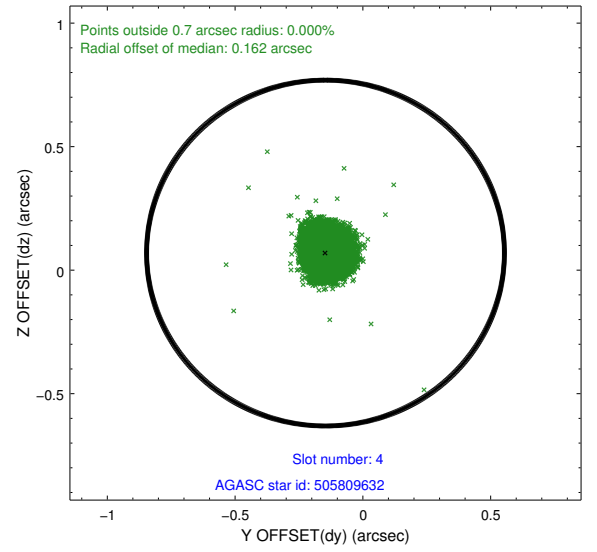
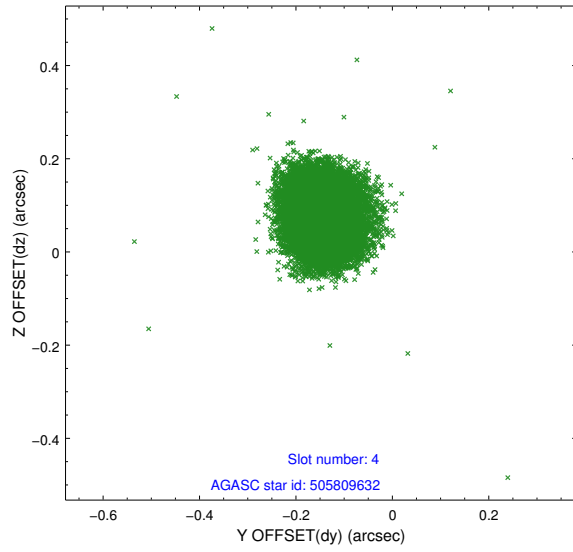
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	6868	0.016	0.014	0.018	0.032	0.000000	0.000000	926.16	-838.37
1	FID	ACIS-I-5	7.01	6868	-0.196	0.028	0.014	0.025	0.000000	0.000000	-1822.13	1059.06
2	FID	ACIS-I-6	7.02	6868	0.089	0.030	0.014	0.022	0.000000	0.000000	391.66	1703.69
3	GUIDE	455871352	8.10	13733	0.137	0.204	0.060	0.099	215.099961	52.172669	2261.68	2061.41
4	GUIDE	505809632	8.06	13733	-0.146	0.069	0.070	0.110	215.499426	53.521185	-1963.54	-482.52
5	GUIDE	505812088	8.14	13736	0.082	-0.110	0.062	0.103	214.186617	53.263562	580.78	-2009.01
6	GUIDE	505812376	7.65	13736	0.079	-0.216	0.050	0.080	214.039537	52.937930	1681.15	-1494.52
7	GUIDE	505815928	8.32	13659	-0.157	0.050	0.061	0.096	216.234742	53.074559	-1813.61	1767.98

## 2.4 Star Slots

### 2.4.1 Slot 3

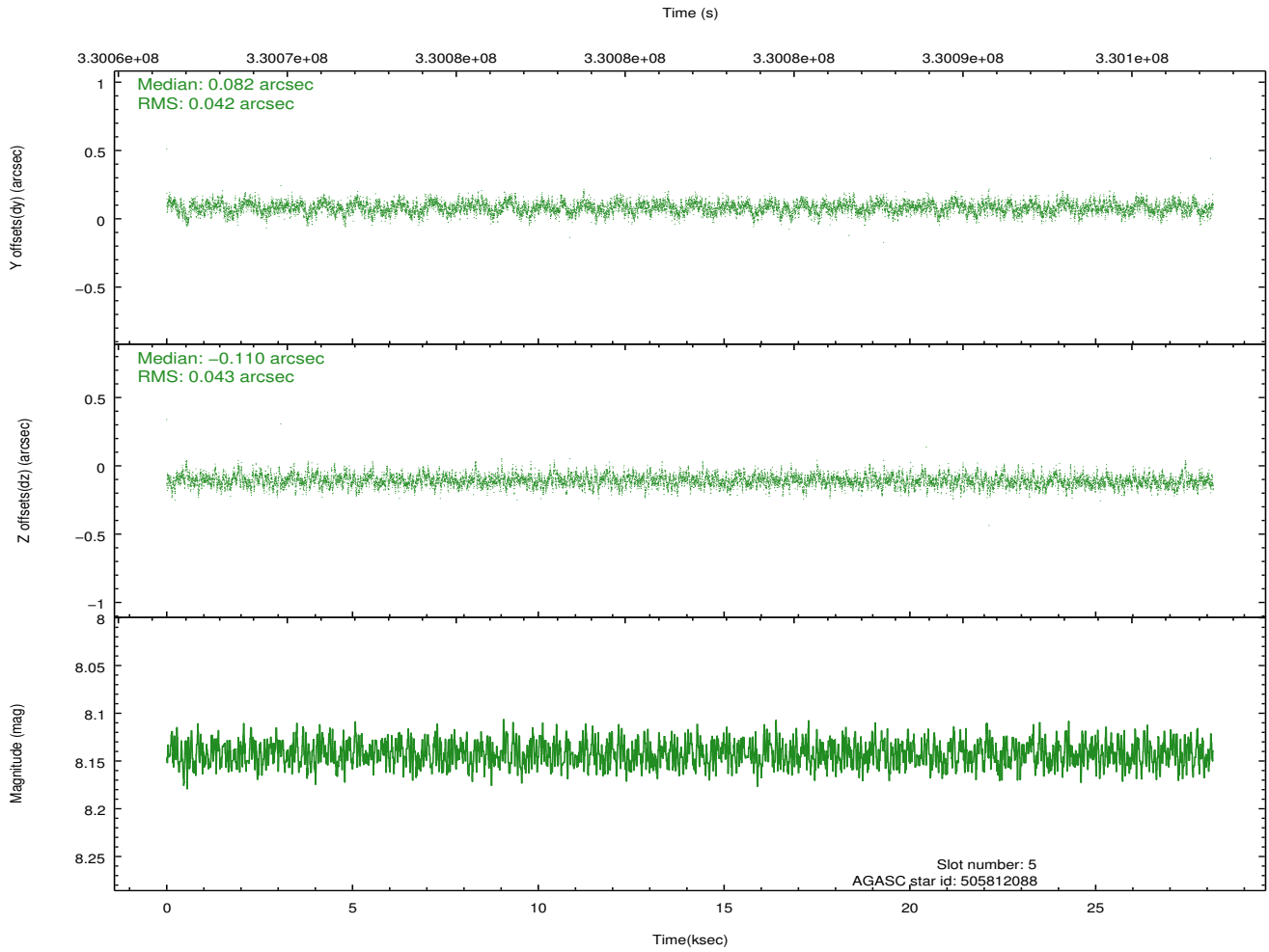
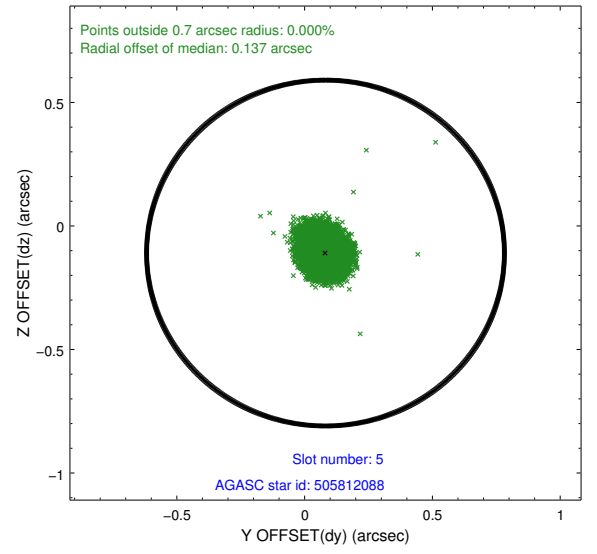
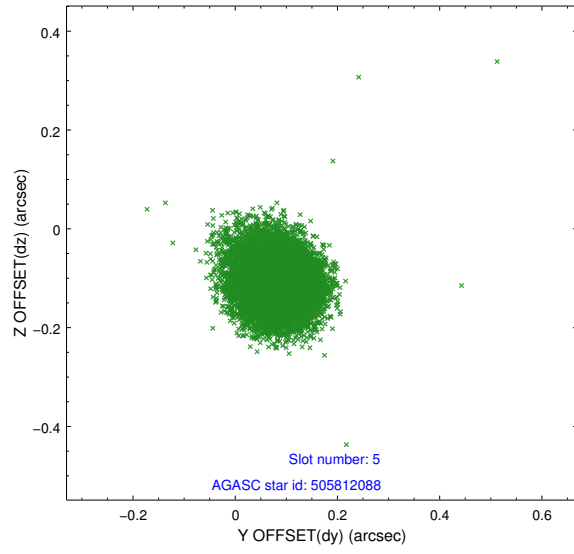


## 2.4.2 Slot 4

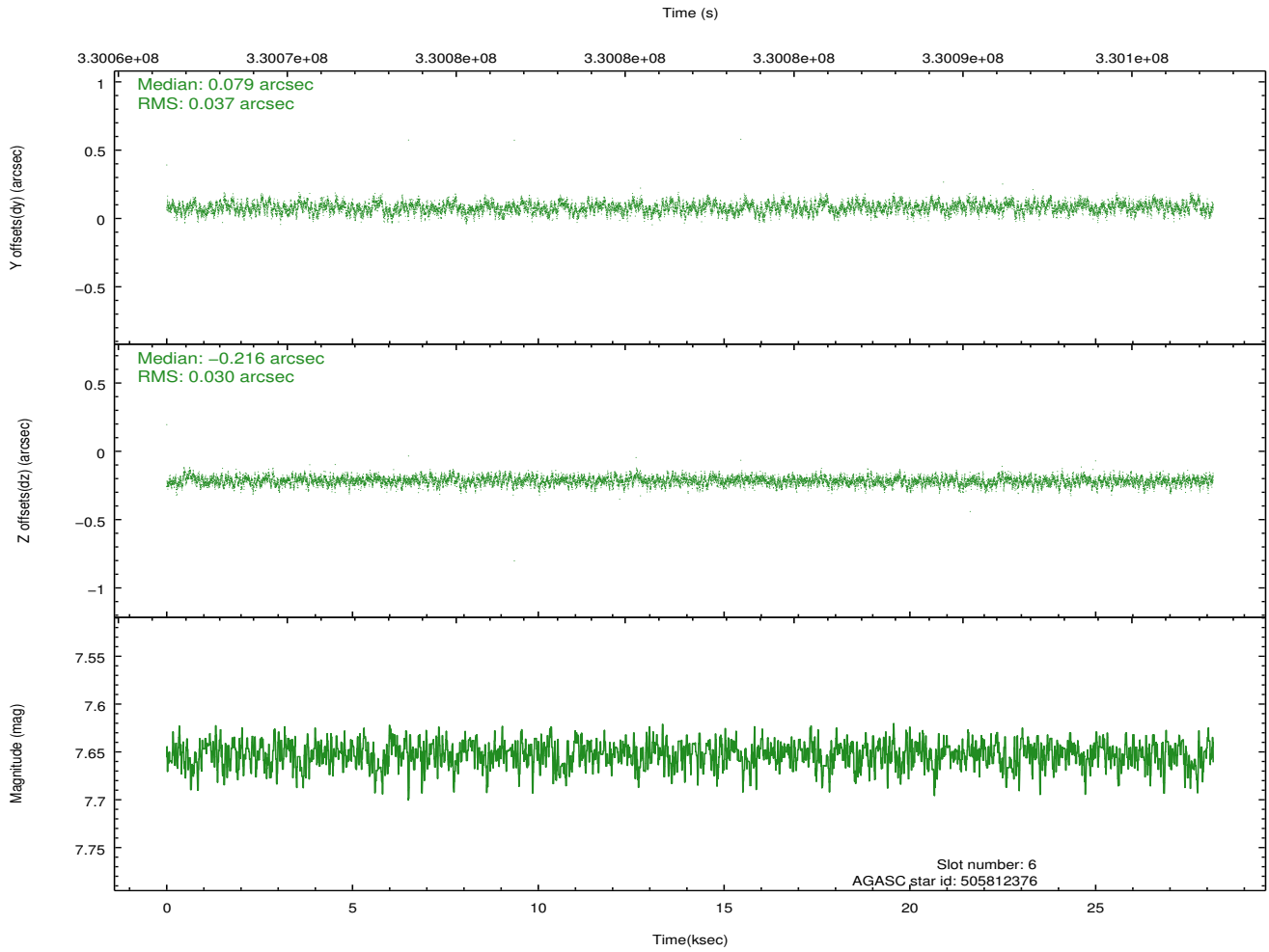
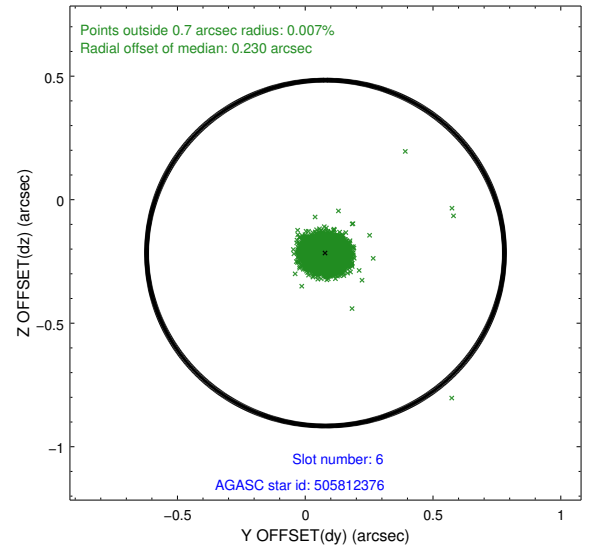
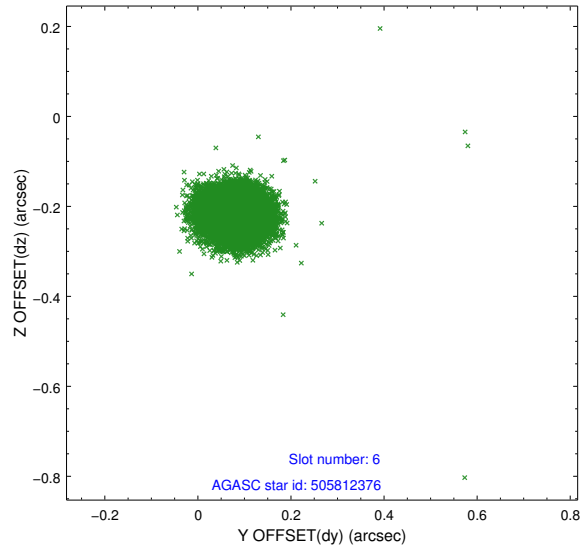




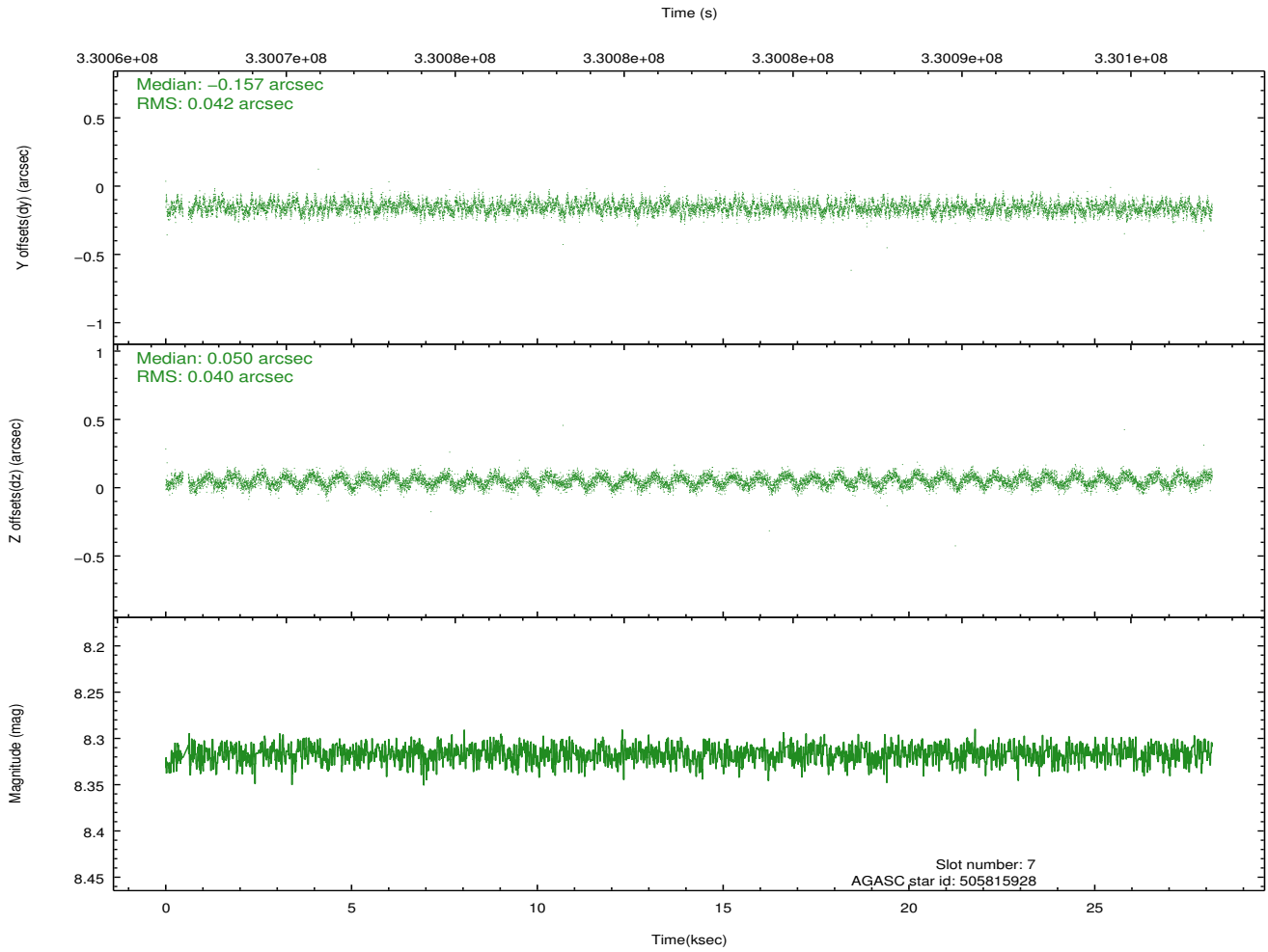
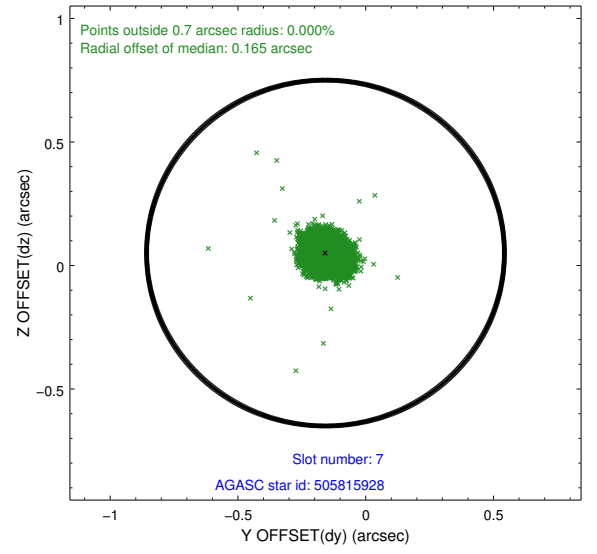
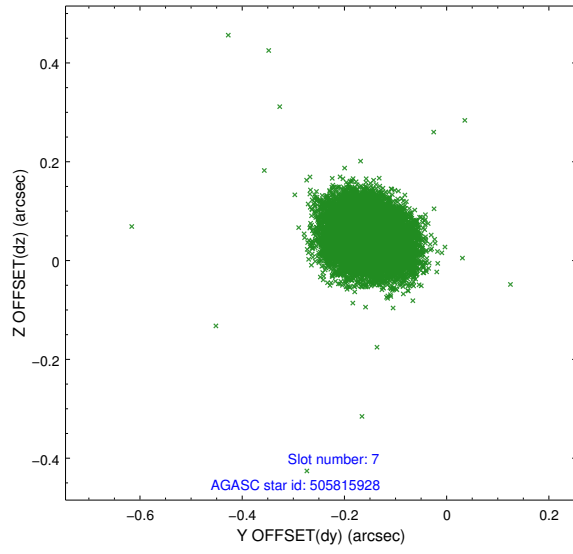
### 2.4.3 Slot 5



## 2.4.4 Slot 6

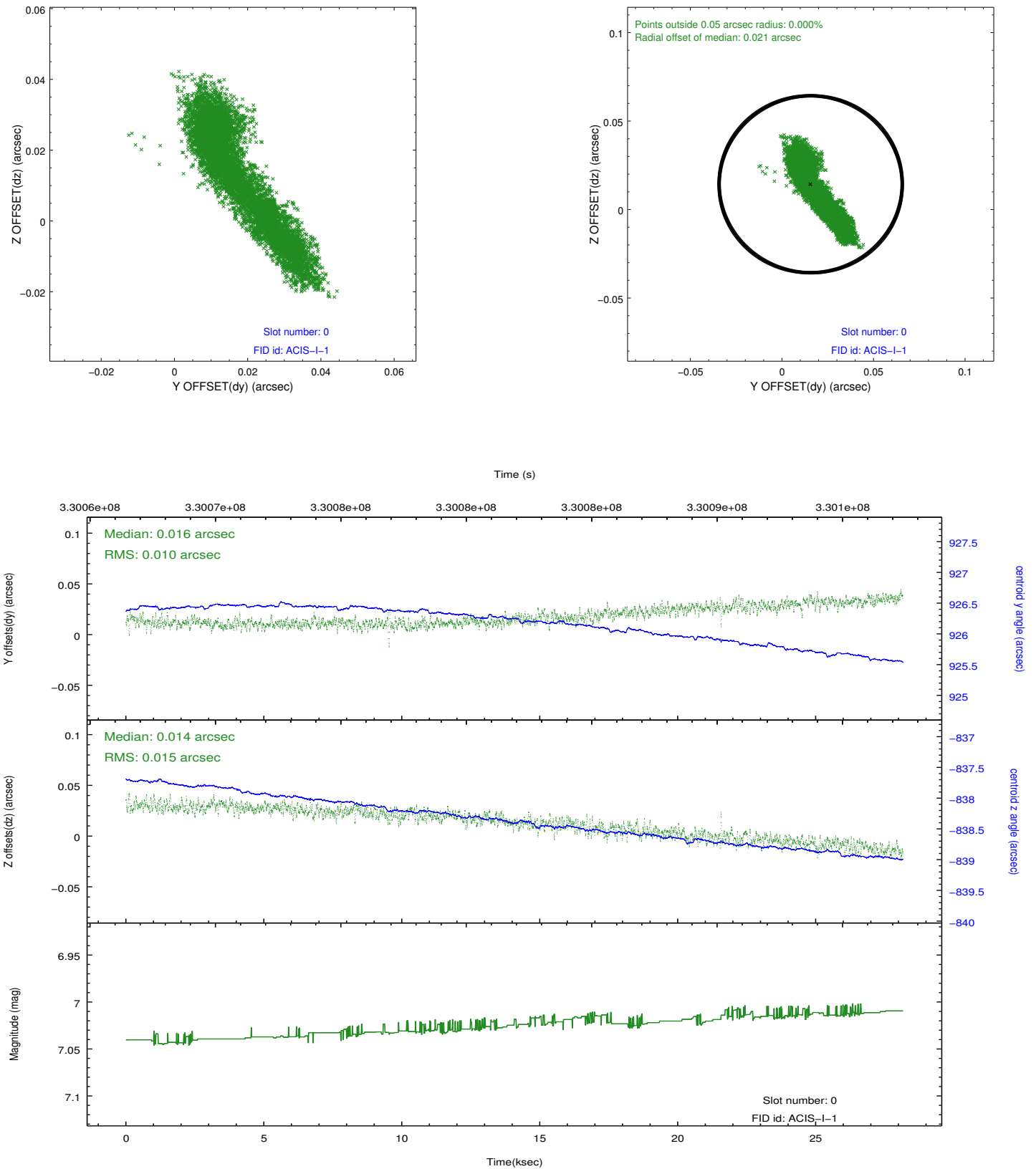


## 2.4.5 Slot 7

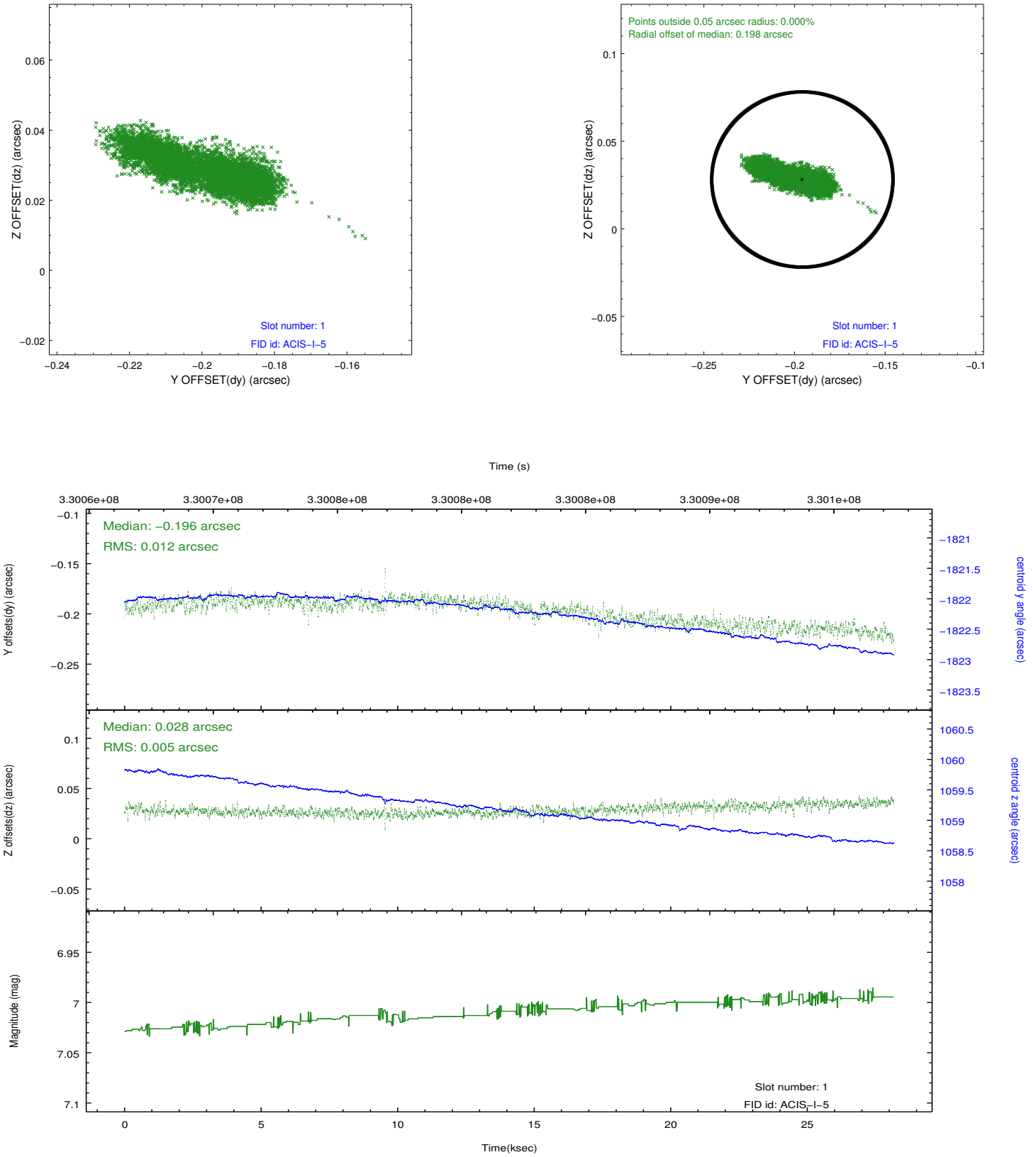


## 2.5 FID Slots

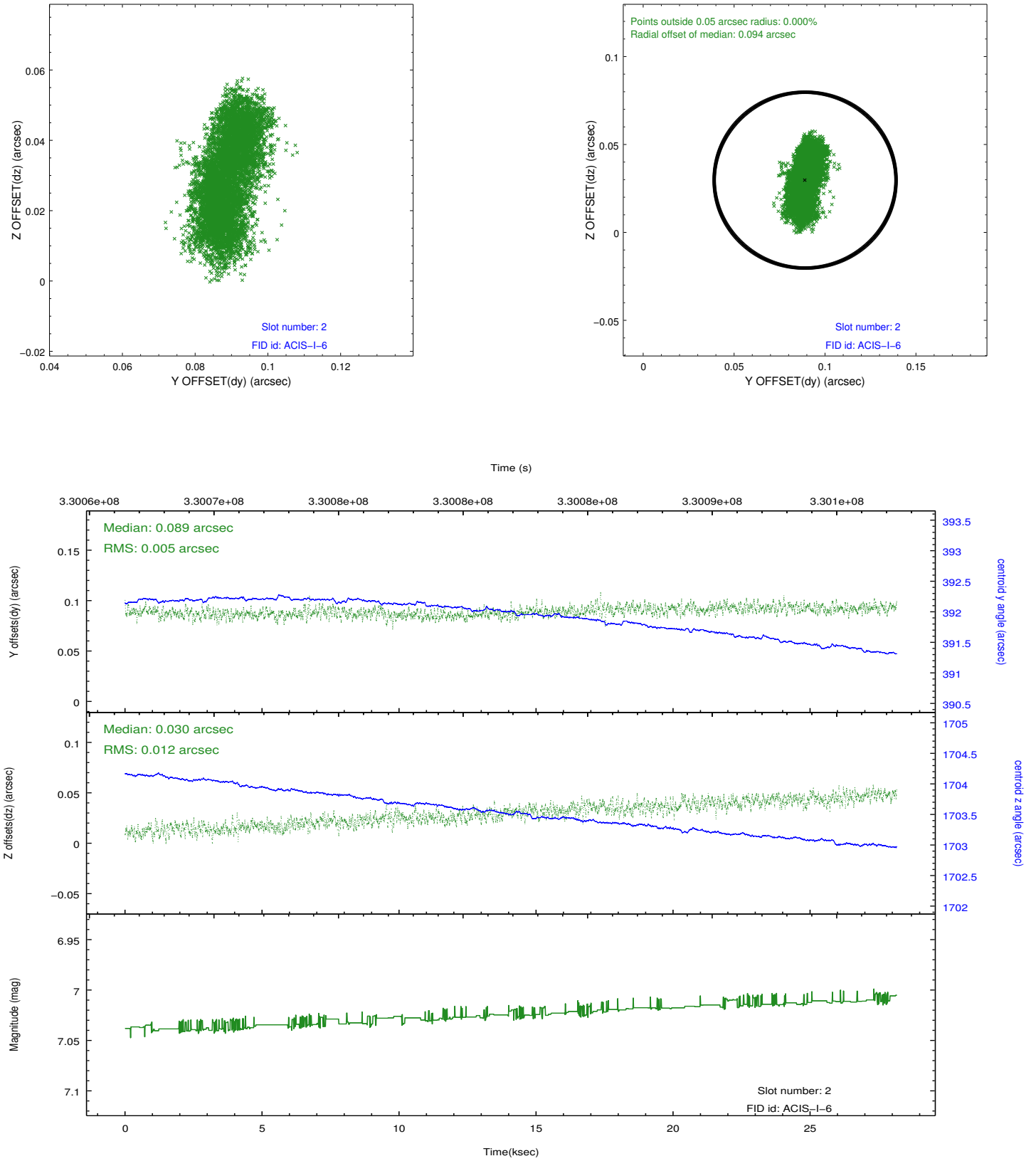
### 2.5.1 Slot 0



## 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)	2012.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.1573002

### A.2 Comments

Joint Proposal: Spitzer. Roll constraint met.