

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10432 - L2 Version 2  
Chandra X-Ray Center

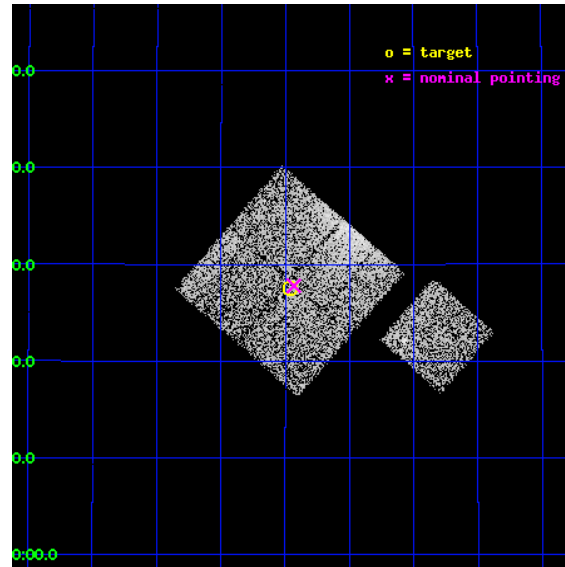
L2 Processing Date : Jun 2 2012

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# 1 Front

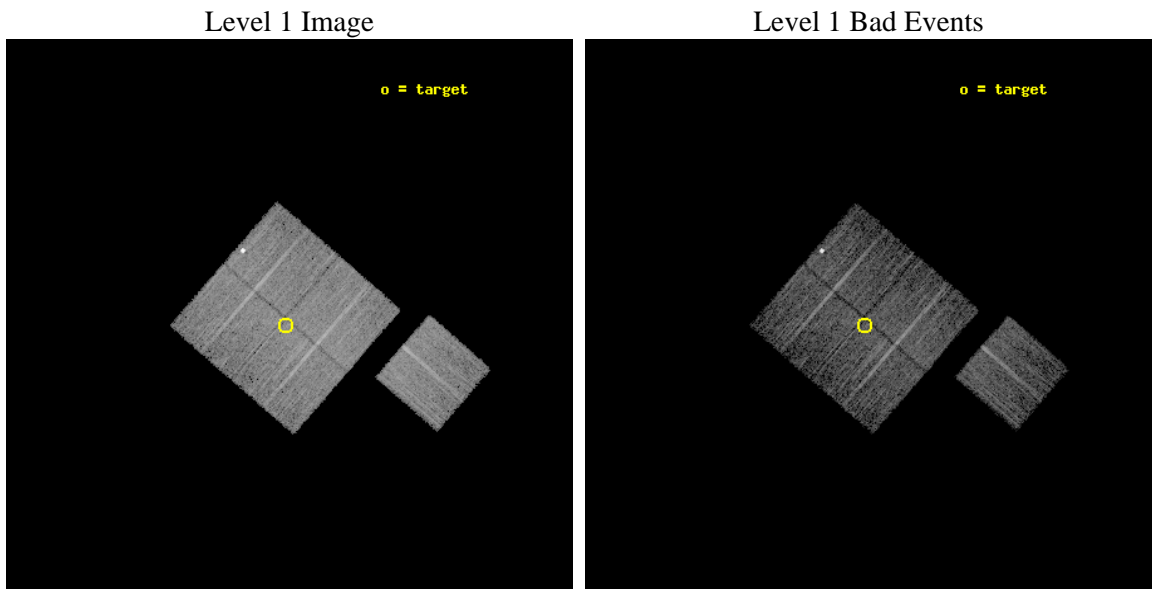
seq_num	800793	Sequence number
obs_id	10432	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A1795	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.365829	Observer's specified target RA [deg]
dec_targ	26.458973	Observer's specified target Dec [deg]
ra_nom	207.35800502371	Nominal RA [deg]
dec_nom	26.463204537455	Nominal Dec [deg]
roll_nom	130.96219029838	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5170.8000397682	Sum of GTIs [s]
livetime	5103.239730561	Livetime [s]
ontime0	5167.6590095758	Sum of GTIs [s]
ontime1	5167.6590095758	Sum of GTIs [s]
ontime2	5170.8000397682	Sum of GTIs [s]
ontime3	5170.8000397682	Sum of GTIs [s]
ontime6	5170.8000397682	Sum of GTIs [s]
l2events	23697	Number of level 2 events



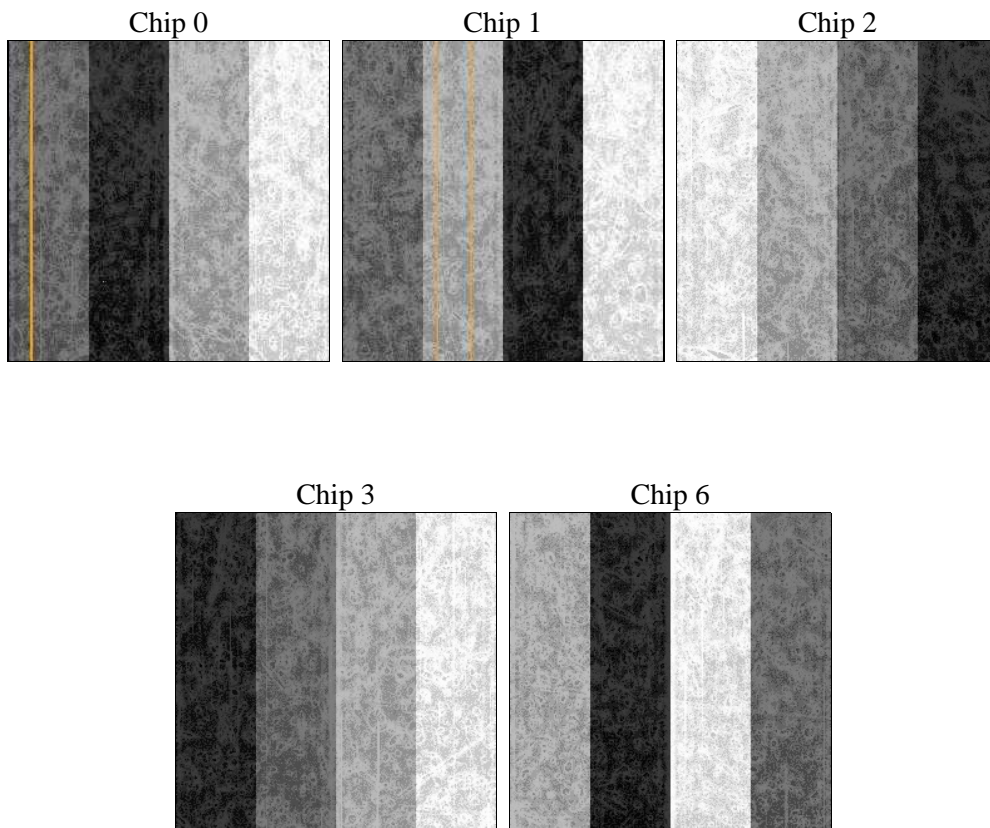
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5170.8000397682	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	5167.6590095758	Sum of GTIs [s]
date	2012-06-02T14:29:32	Date and time of file creation	ontime1	5167.6590095758	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5170.8000397682	Sum of GTIs [s]
			ontime3	5170.8000397682	Sum of GTIs [s]
			ontime6	5170.8000397682	Sum of GTIs [s]
			l1events	264797	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	55181	48620	58167	51767	51062
rejected events	47658	43414	50600	47391	46282
rejected %	86%	89%	86%	91%	90%

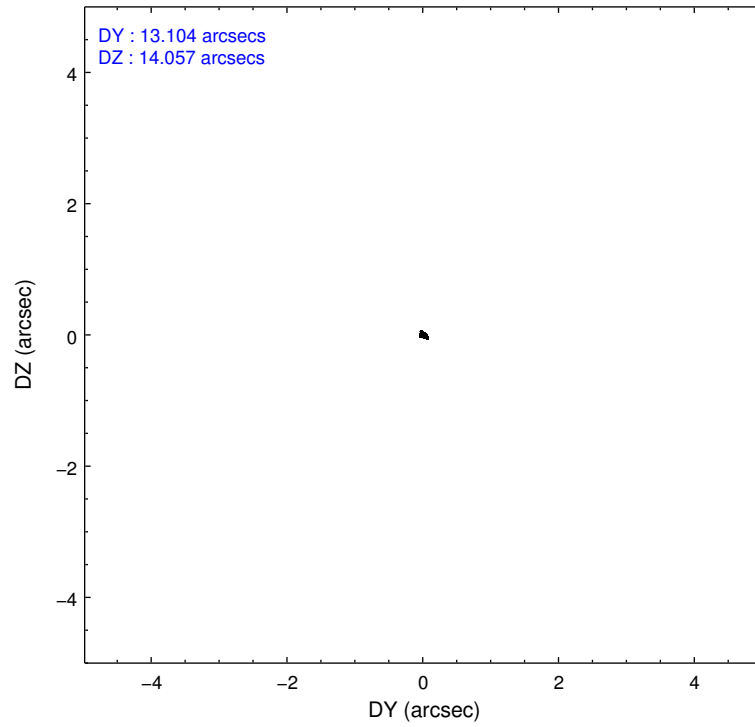
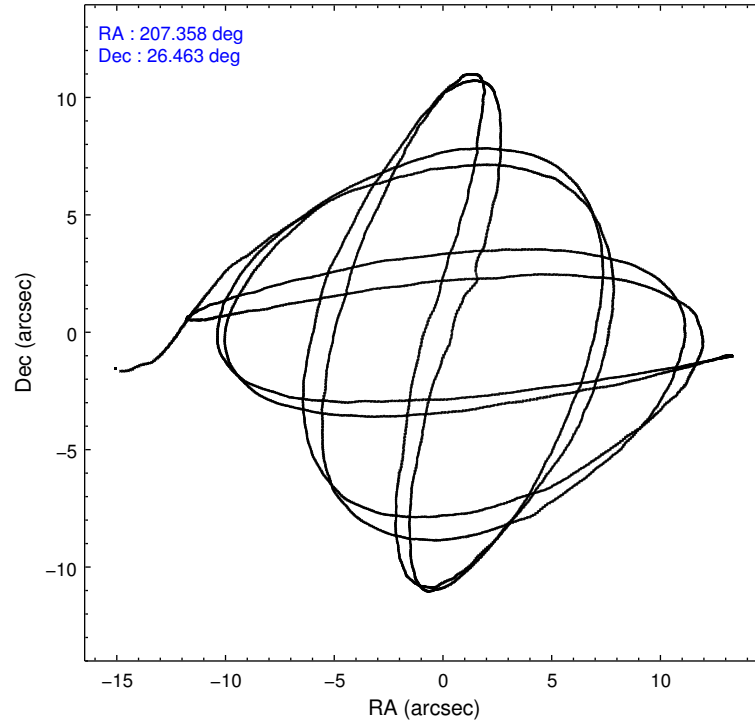
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4875	2358	4635	1979	2038
	8%	4%	7%	3%	3%
grade 1 events	3578	29	46	31	27
	6%	0%	0%	0%	0%
grade 2 events	1443	1239	1697	1120	1185
	2%	2%	2%	2%	2%
grade 3 events	666	628	663	561	545
	1%	1%	1%	1%	1%
grade 4 events	611	592	666	530	614
	1%	1%	1%	1%	1%
grade 5 events	2069	2066	1787	2080	2133
	3%	4%	3%	4%	4%
grade 6 events	1052	1263	1008	984	1136
	1%	2%	1%	1%	2%
grade 7 events	40887	40445	47665	44482	43384
	74%	83%	81%	85%	84%

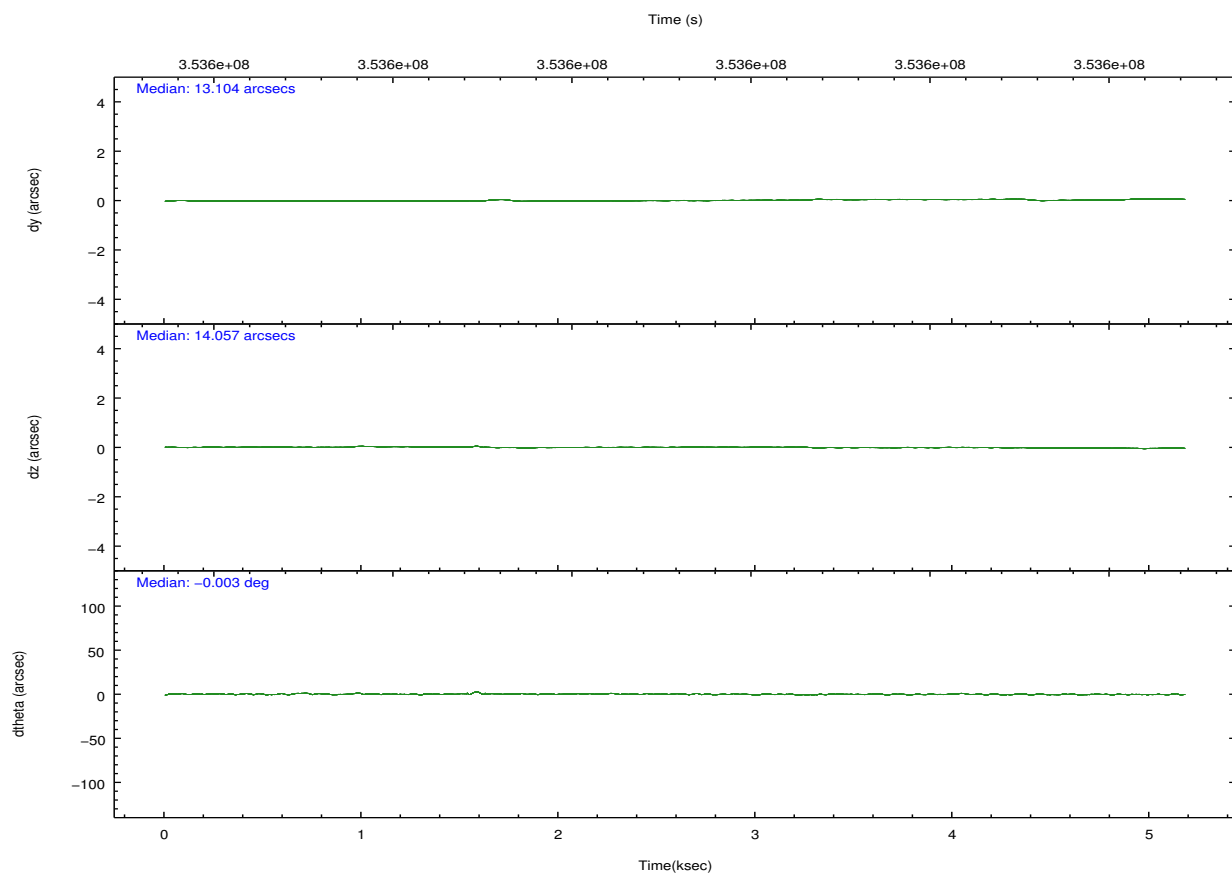
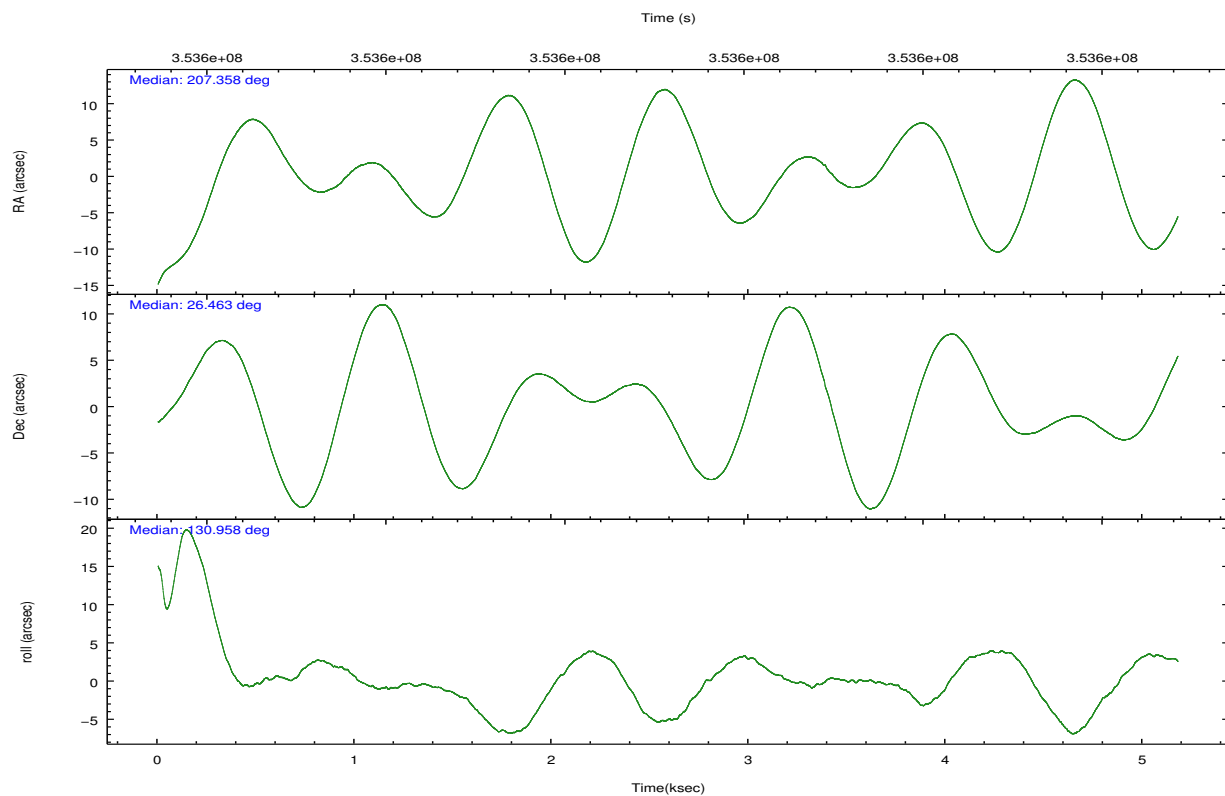


## 2.2 Compared Parameters

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	207.387227	207.3580050237089	CCD I2 on	Y	Y
[deg] Pointing Dec	26.454355	26.46320453745528	CCD I3 on	Y	Y
[deg] Pointing Roll	130.740472	130.9621902983809	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	353598167.184000	353596762.54196	CCD S5 on	N	N
Observation start date	2009-03-16T13:41:41	2009-03-16T13:19:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	353603167.184000	353604151.76733	On-chip summing requested	N	N
Observation end date	2009-03-16T15:05:01	2009-03-16T15:22:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



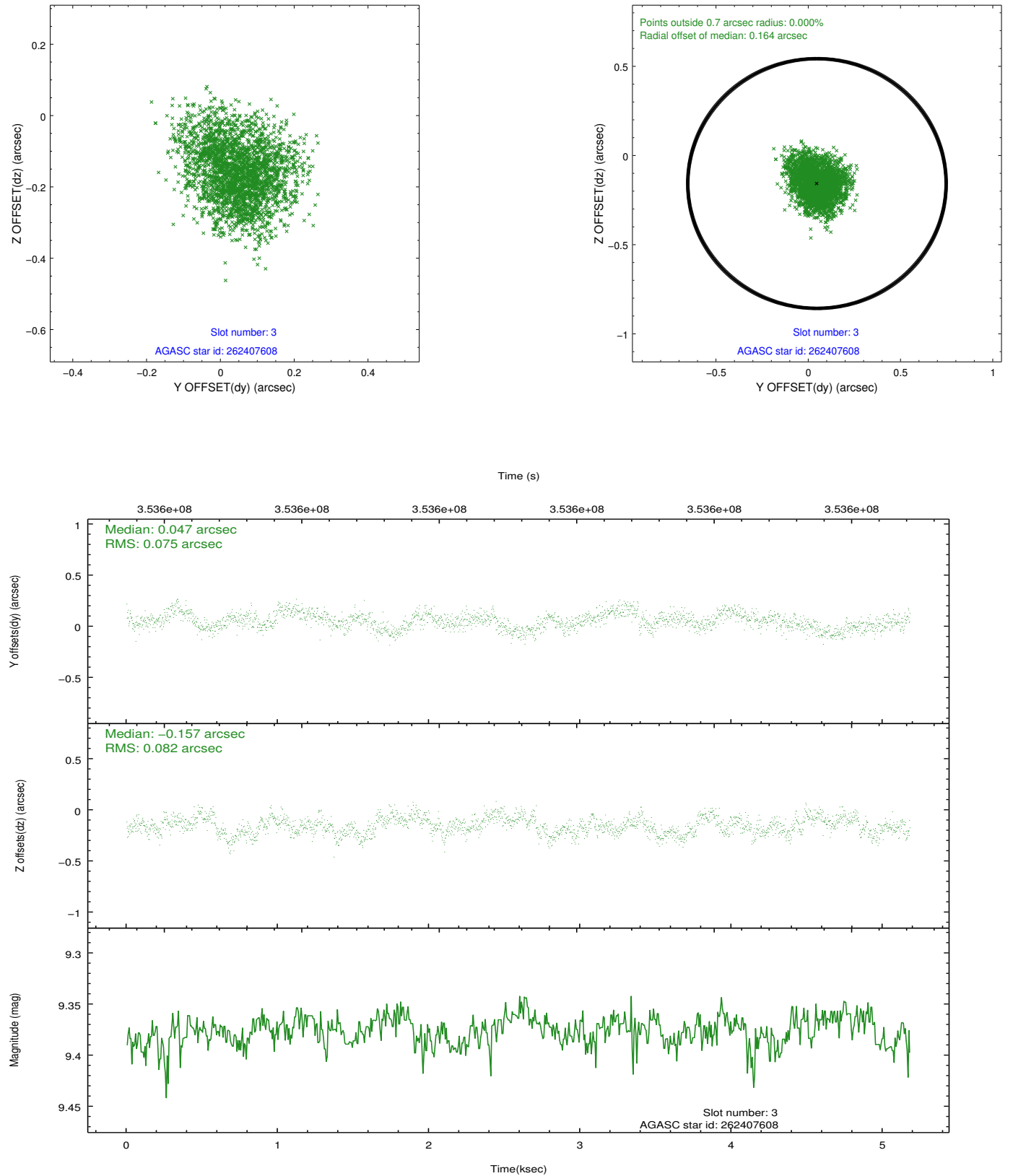


### Slot Statistics

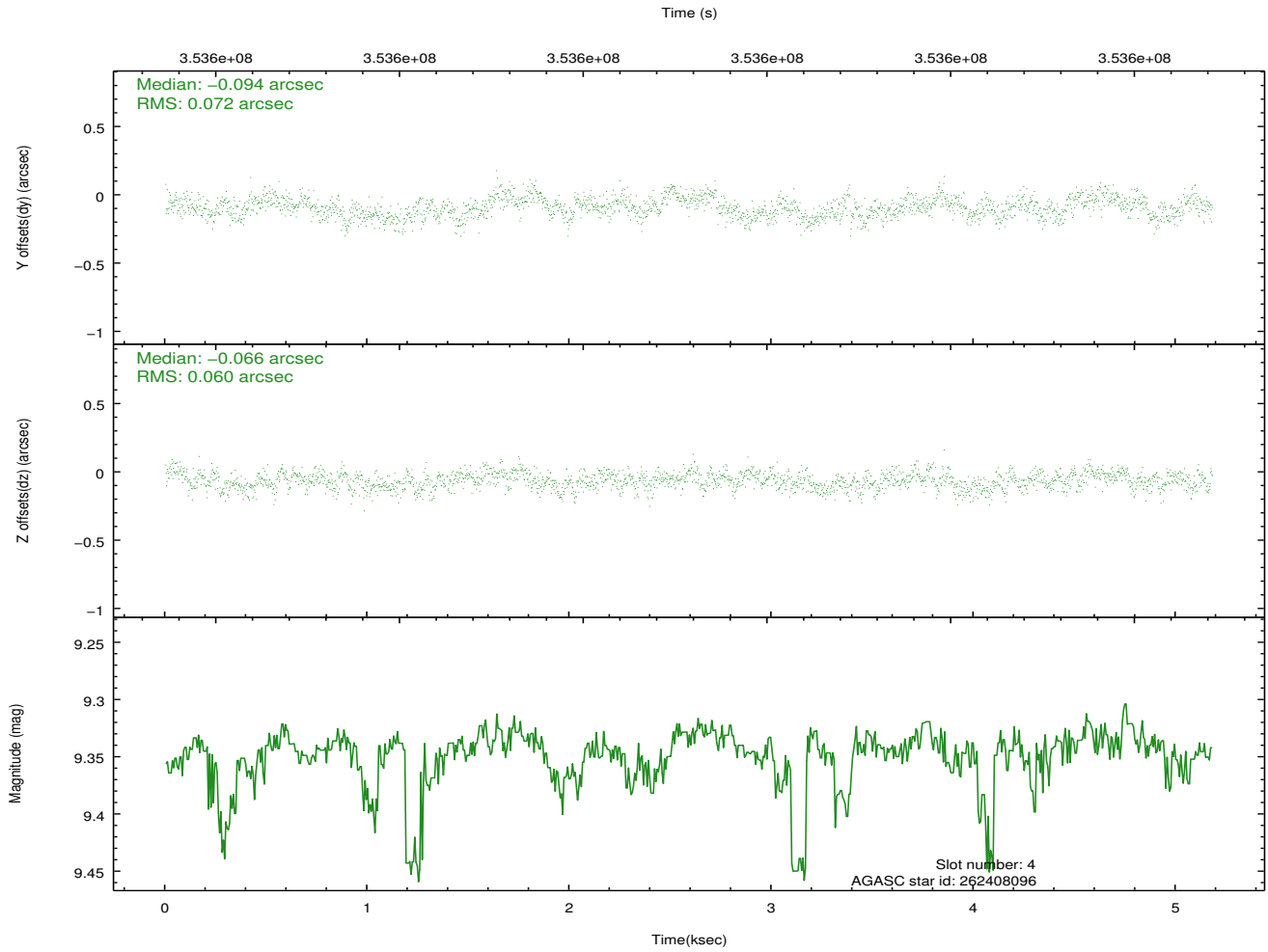
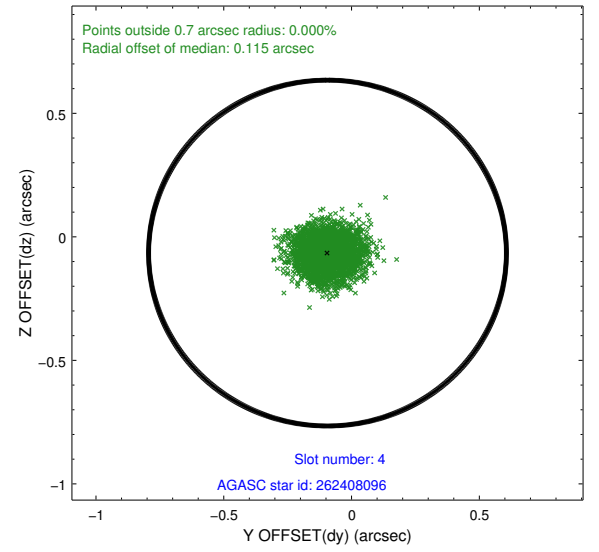
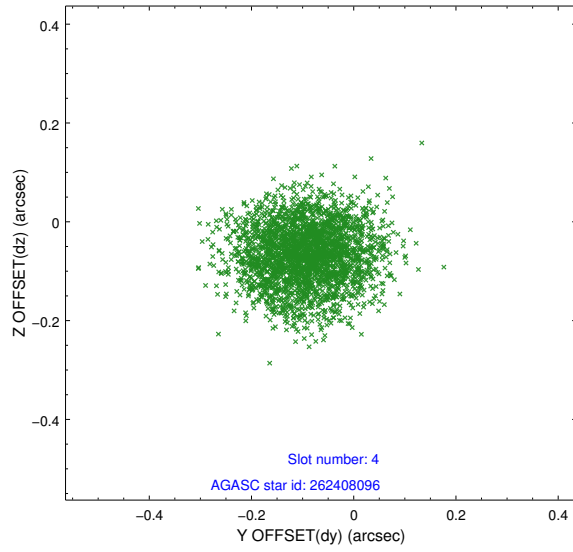
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.12	1263	0.024	0.030	0.006	0.011	0.000000	0.000000	926.44	-837.59
1	FID	ACIS-I-5	7.11	1263	-0.190	0.042	0.006	0.010	0.000000	0.000000	-1821.27	1059.29
2	FID	ACIS-I-6	7.11	1263	0.075	-0.001	0.007	0.011	0.000000	0.000000	390.72	1705.11
3	GUIDE	262407608	9.38	2522	0.047	-0.157	0.121	0.189	207.378401	26.435507	-32.89	65.41
4	GUIDE	262408096	9.35	2514	-0.094	-0.066	0.101	0.158	207.011678	26.515421	957.64	771.95
5	GUIDE	262408936	9.71	2521	0.029	0.113	0.125	0.209	207.154731	26.726554	1231.11	-73.31
6	GUIDE	262411960	9.68	2518	-0.047	-0.011	0.108	0.184	207.327895	25.881727	-1436.09	1490.61
7	GUIDE	262414456	9.29	2525	0.063	0.130	0.099	0.165	208.043290	26.129682	-2265.97	-846.96

## 2.4 Star Slots

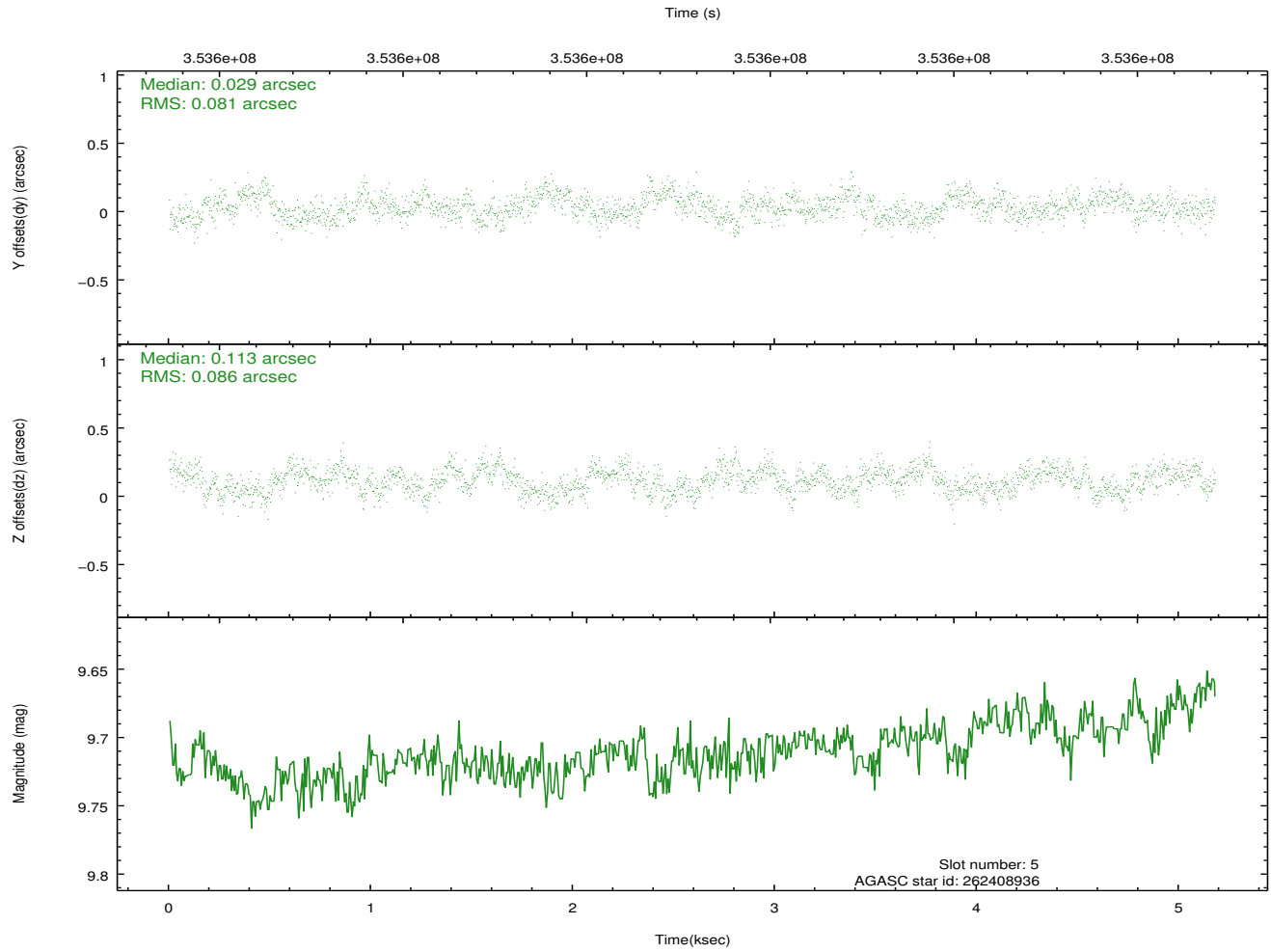
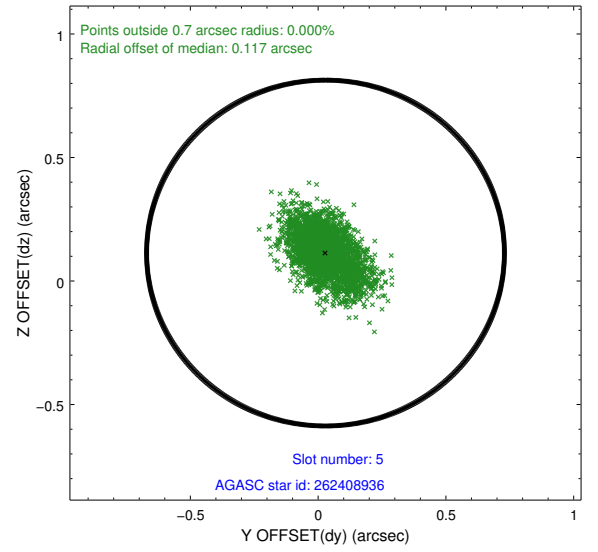
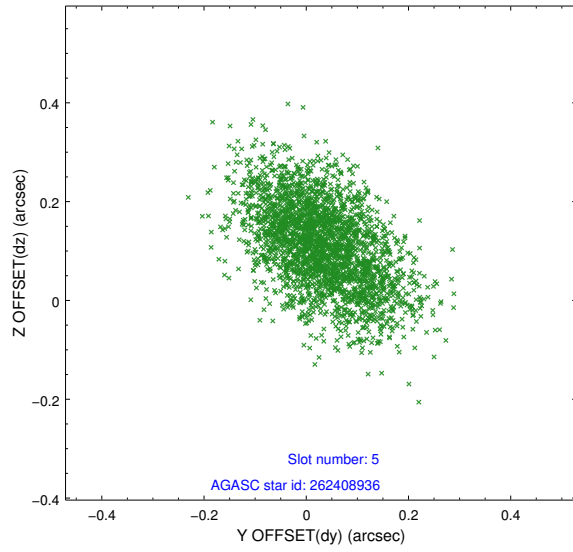
### 2.4.1 Slot 3



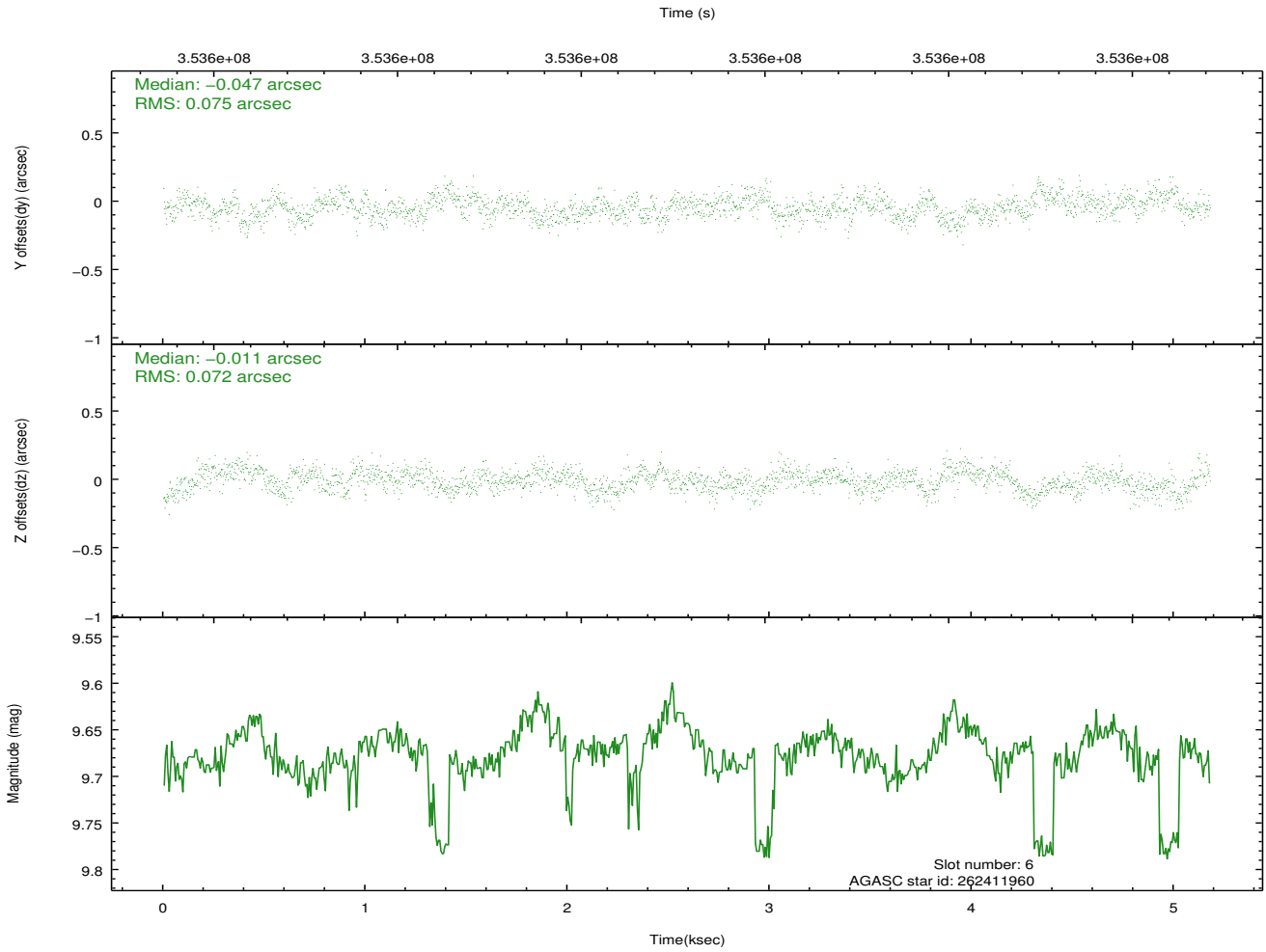
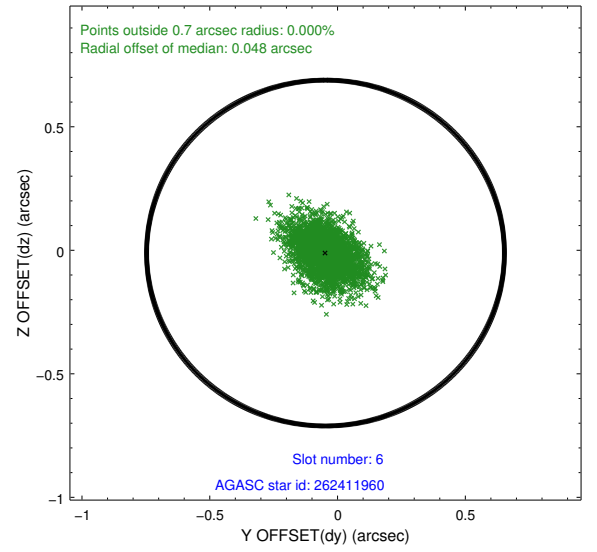
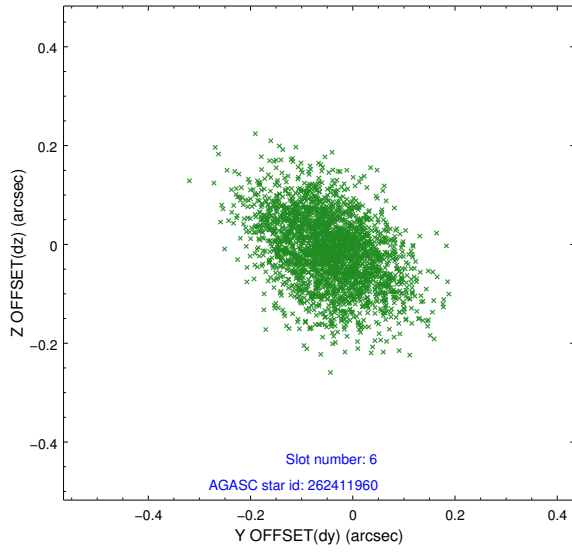
## 2.4.2 Slot 4



### 2.4.3 Slot 5

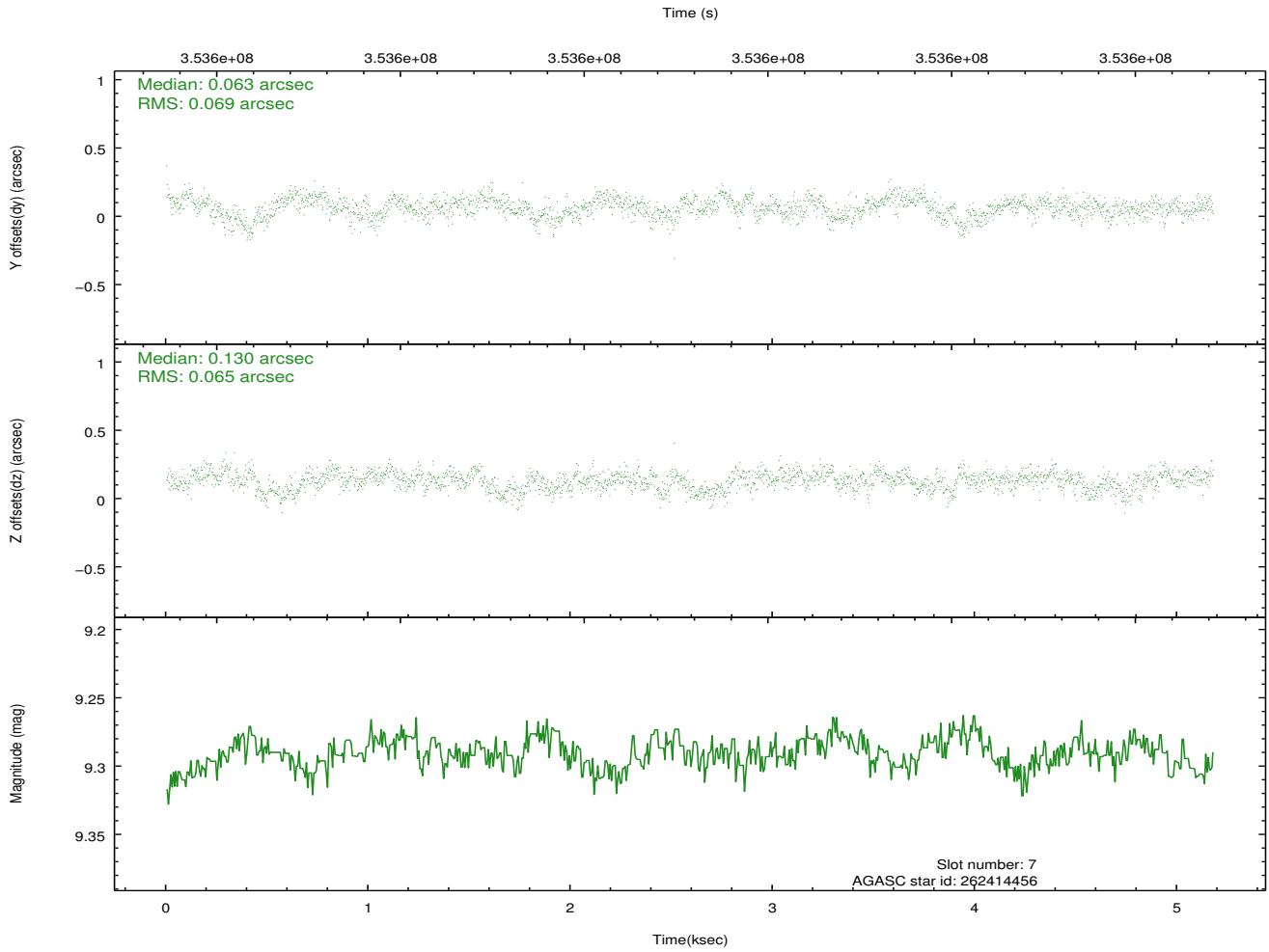
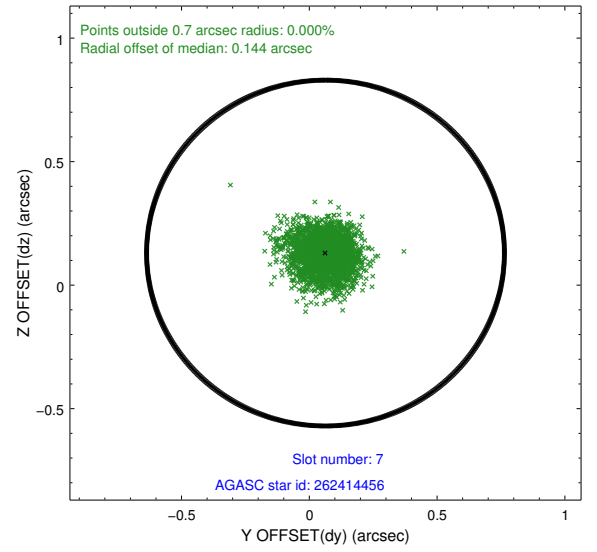
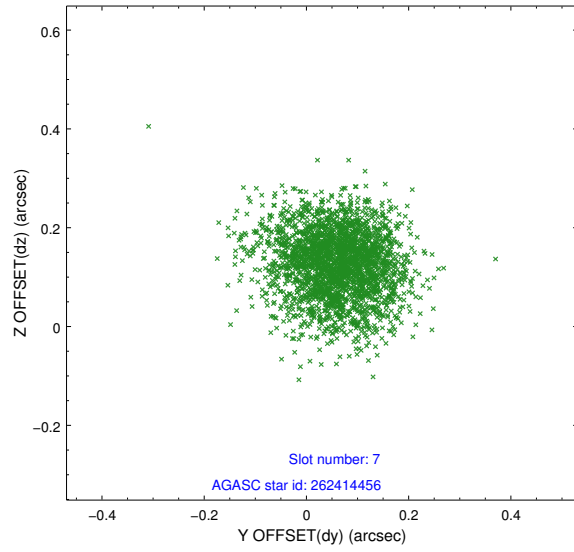


## 2.4.4 Slot 6



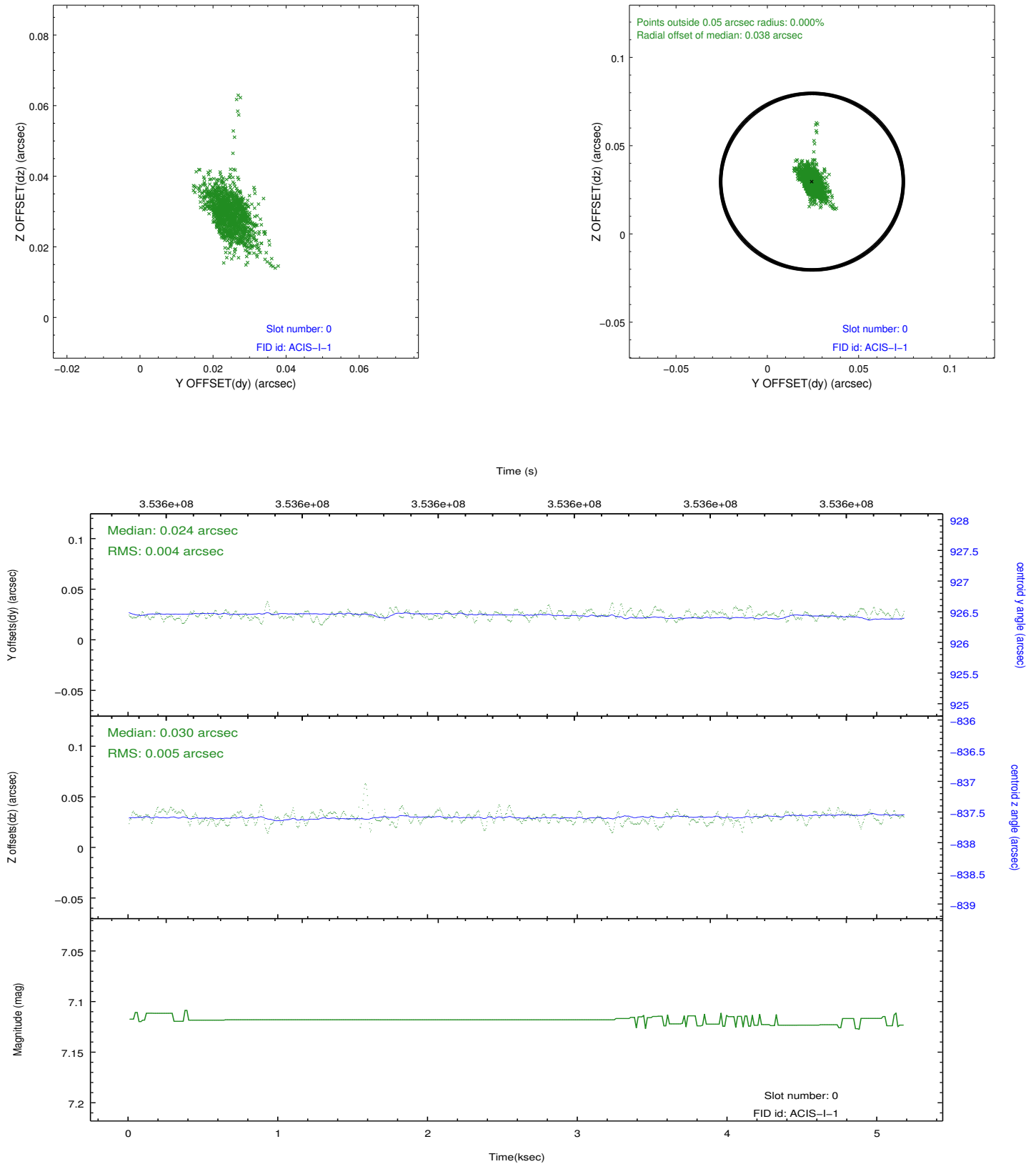


## 2.4.5 Slot 7

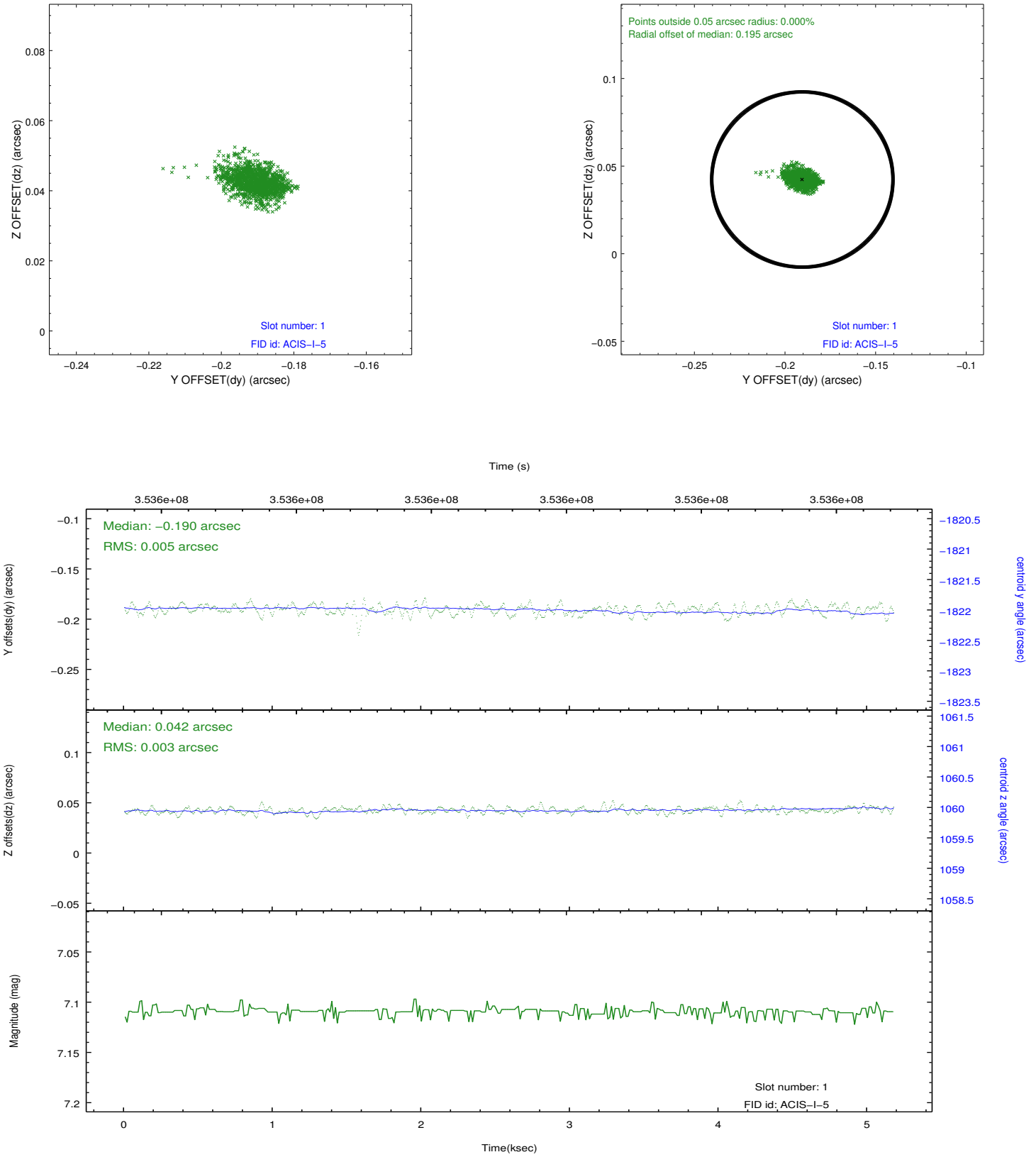


## 2.5 FID Slots

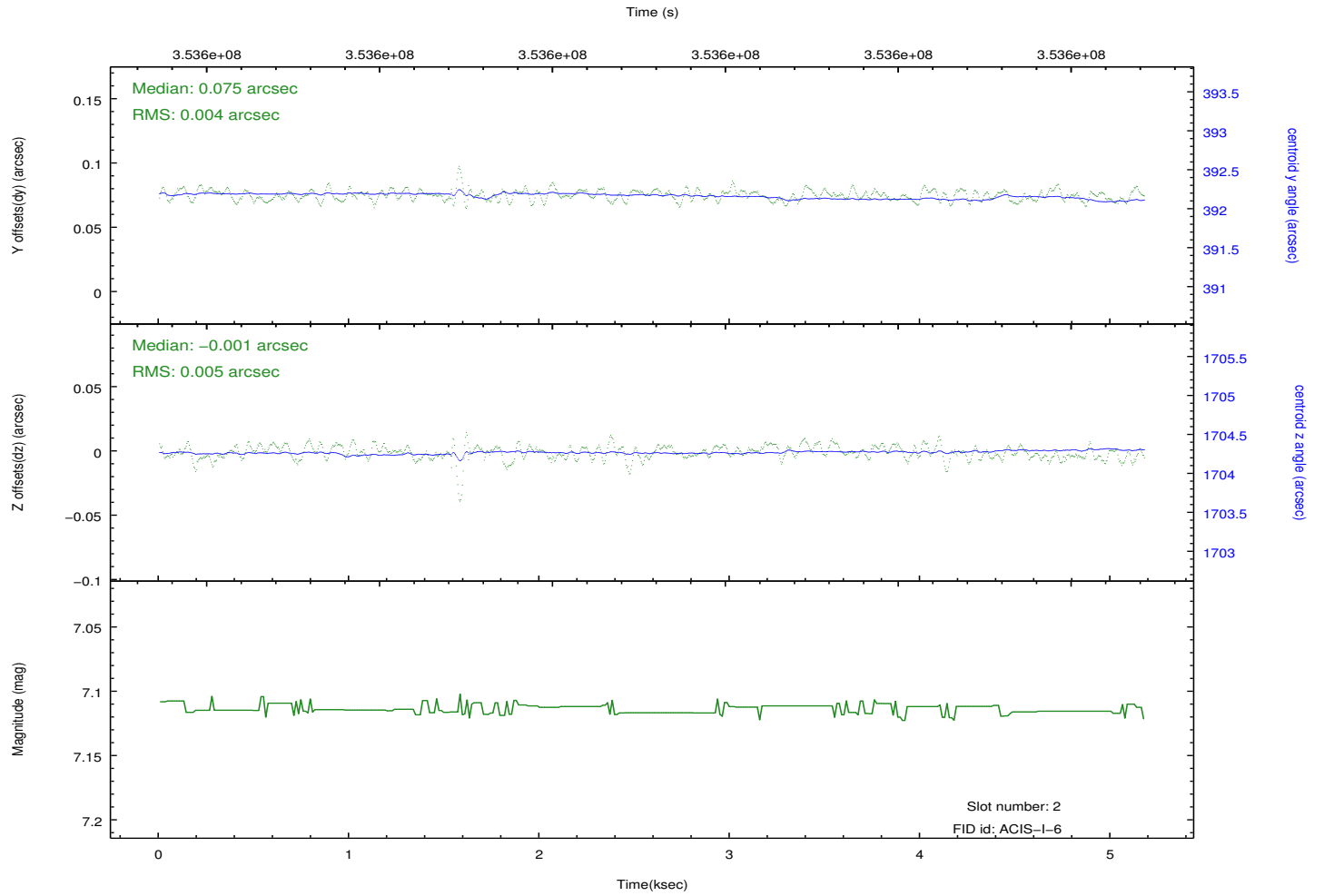
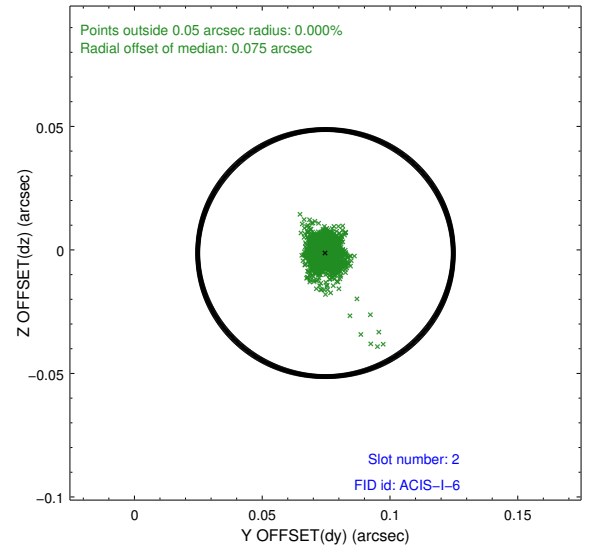
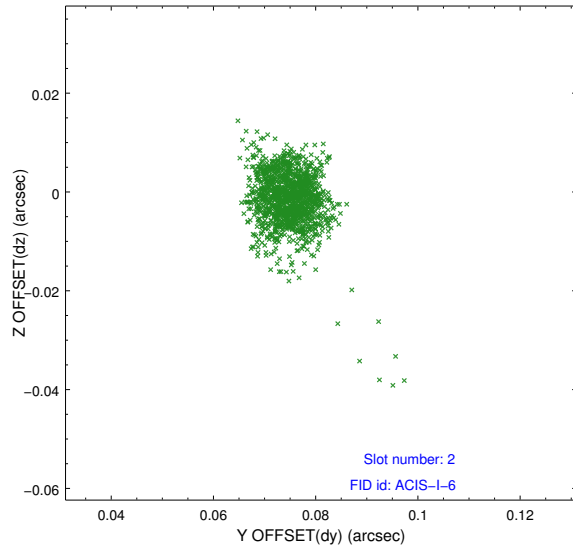
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17080003

### A.2 Comments