

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8622 - L2 Version 2  
Chandra X-Ray Center

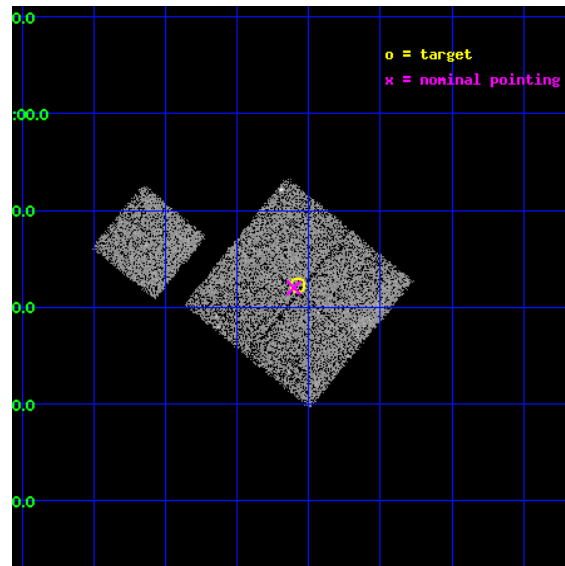
L2 Processing Date : May 5 2012

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# 1 Front

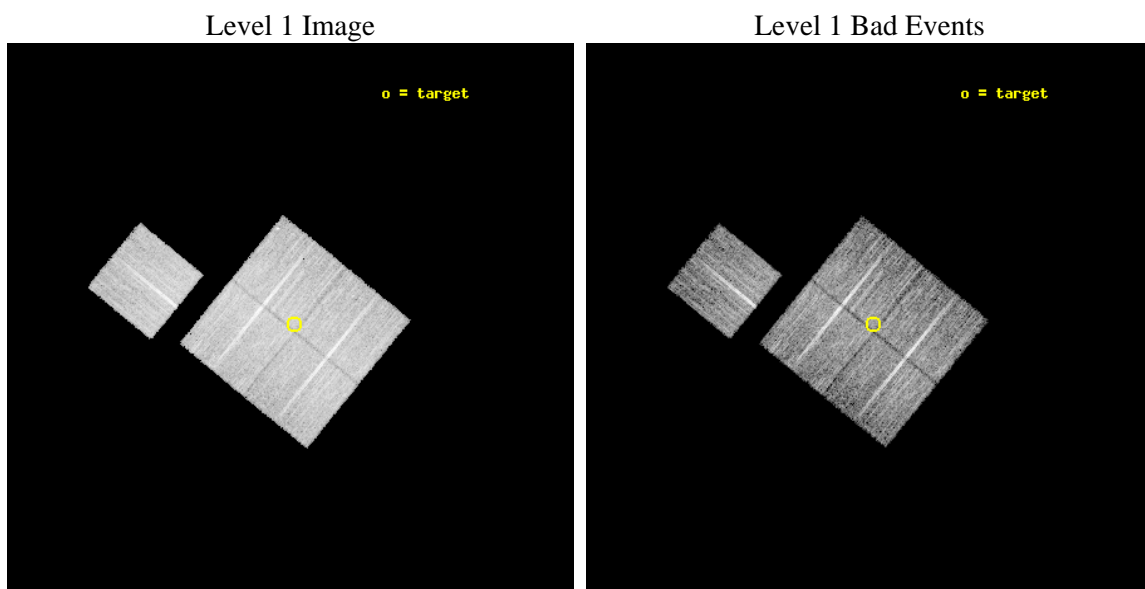
seq_num	900759	Sequence number
obs_id	8622	Observation id
title	Chandra Observations of the DEEP2 Fields	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	DEEP2 Field 4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	37.144074	Observer's specified target RA [deg]
dec_targ	0.704467	Observer's specified target Dec [deg]
ra_nom	37.150810323552	Nominal RA [deg]
dec_nom	0.70005308153987	Nominal Dec [deg]
roll_nom	309.23860749623	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8772.2254297733	Sum of GTIs [s]
livetime	8657.6098465149	Livetime [s]
ontime0	8772.1023097634	Sum of GTIs [s]
ontime1	8772.1433497667	Sum of GTIs [s]
ontime2	8769.0433994532	Sum of GTIs [s]
ontime3	8772.2254297733	Sum of GTIs [s]
ontime6	8772.0612697601	Sum of GTIs [s]
l2events	30095	Number of level 2 events



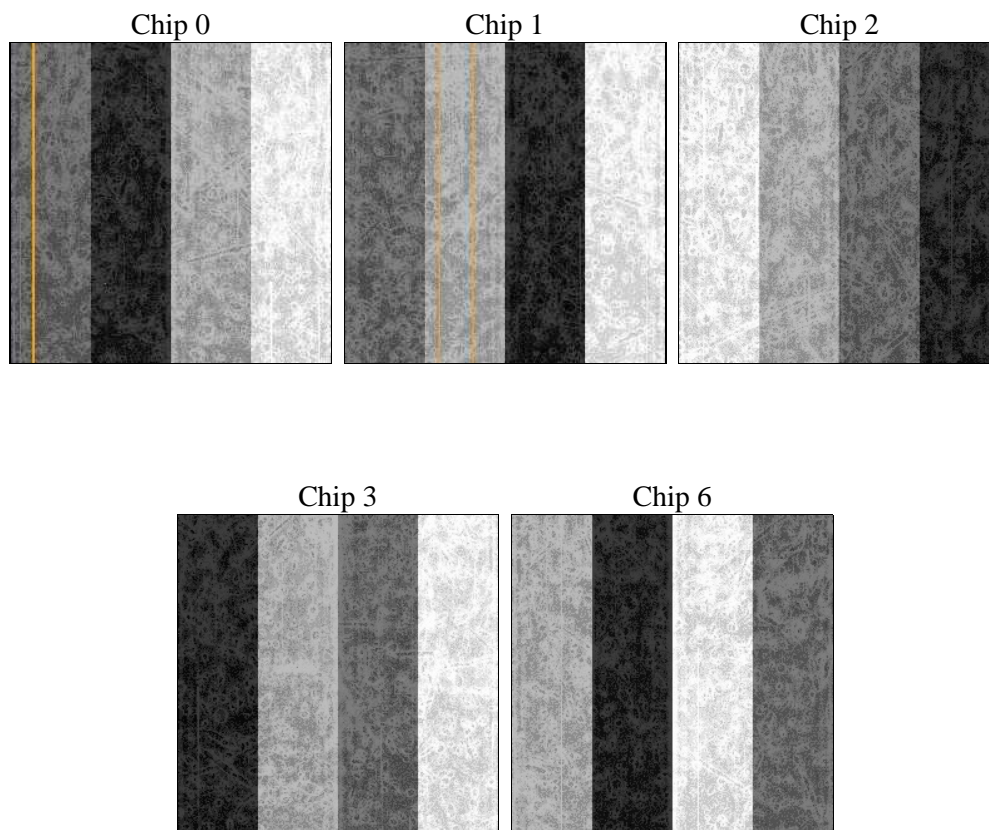
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8772.2254297733	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	8772.1023097634	Sum of GTIs [s]
date	2012-05-05T06:21:27	Date and time of file creation	ontime1	8772.1433497667	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8769.0433994532	Sum of GTIs [s]
			ontime3	8772.2254297733	Sum of GTIs [s]
			ontime6	8772.0612697601	Sum of GTIs [s]
			l1events	358070	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	67145	69708	78111	70858	72248
rejected events	60011	61774	71119	64078	64927
rejected %	89%	88%	91%	90%	89%

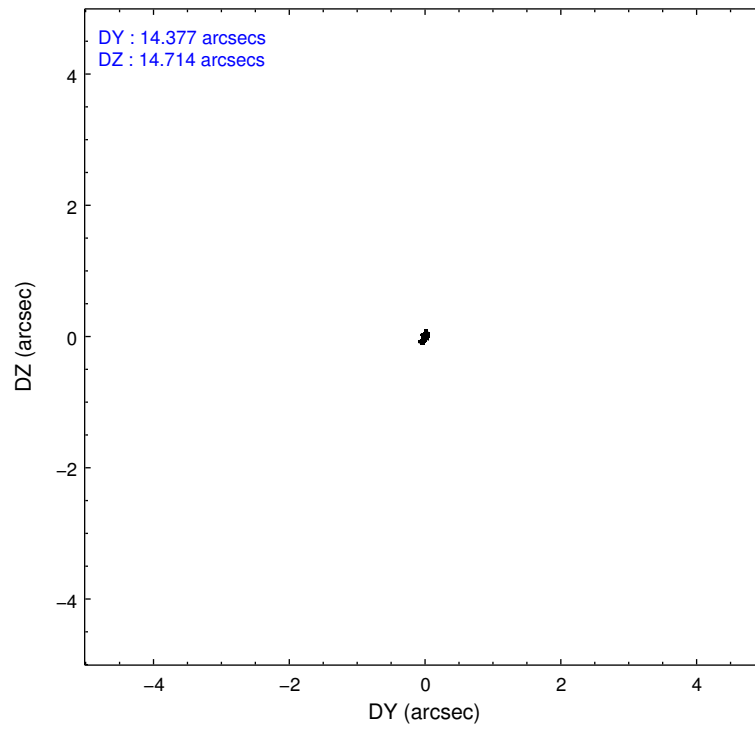
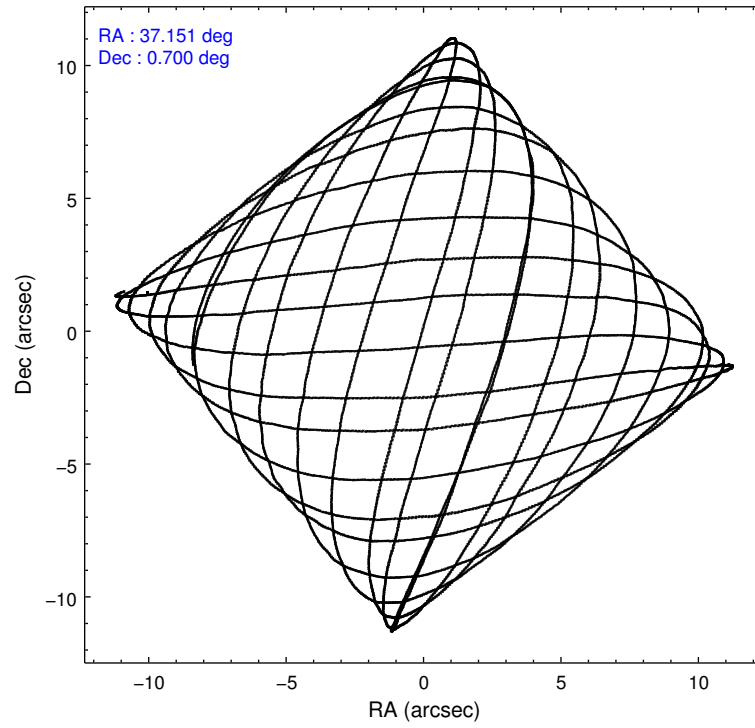
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2552	2801	2541	2396	2575
	3%	4%	3%	3%	3%
grade 1 events	51	46	47	36	35
	0%	0%	0%	0%	0%
grade 2 events	1661	1831	1722	1501	1570
	2%	2%	2%	2%	2%
grade 3 events	795	877	744	779	846
	1%	1%	0%	1%	1%
grade 4 events	761	853	711	760	832
	1%	1%	0%	1%	1%
grade 5 events	2533	2680	2353	2921	2880
	3%	3%	3%	4%	3%
grade 6 events	1368	1575	1277	1349	1501
	2%	2%	1%	1%	2%
grade 7 events	57424	59045	68716	61116	62009
	85%	84%	87%	86%	85%

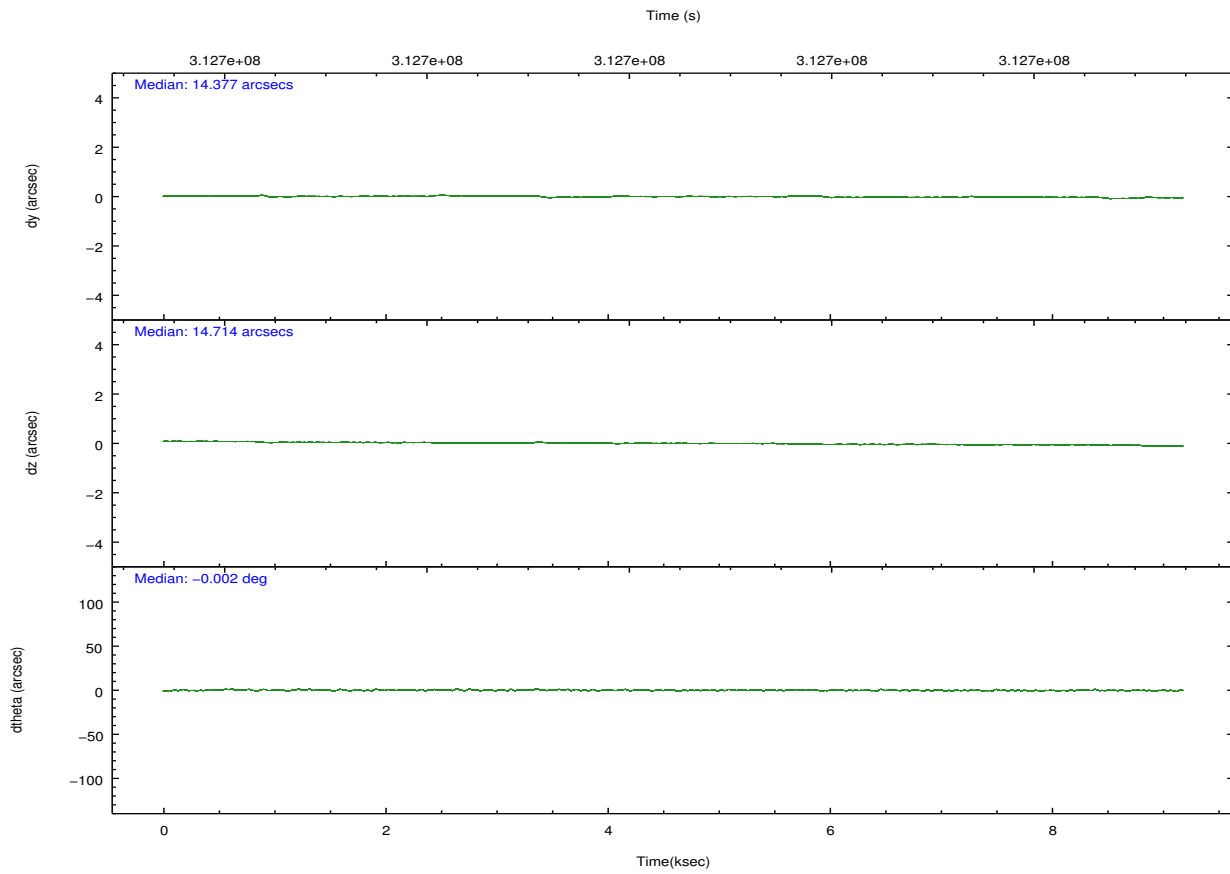
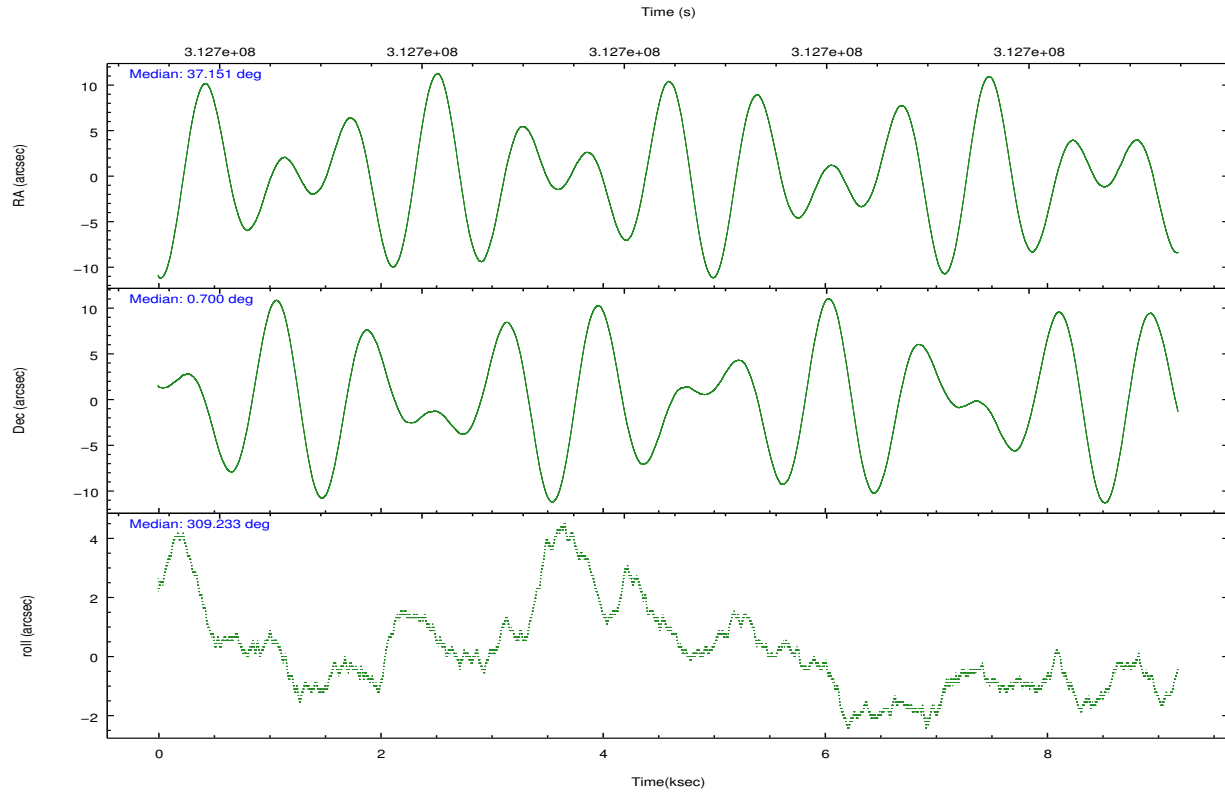


## 2.2 Compared Parameters

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	37.125069	37.1508103235521	CCD I2 on	Y	Y
[deg] Pointing Dec	0.709654	0.7000530815398687	CCD I3 on	Y	Y
[deg] Pointing Roll	309.030238	309.2386074962273	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)	312696015.184000	312695639.44068	CCD S5 on	N	N
Observation start date	2007-11-29T03:59:10	2007-11-29T03:53:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	312705015.184000	312705148.87864	On-chip summing requested	N	N
Observation end date	2007-11-29T06:29:10	2007-11-29T06:32:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



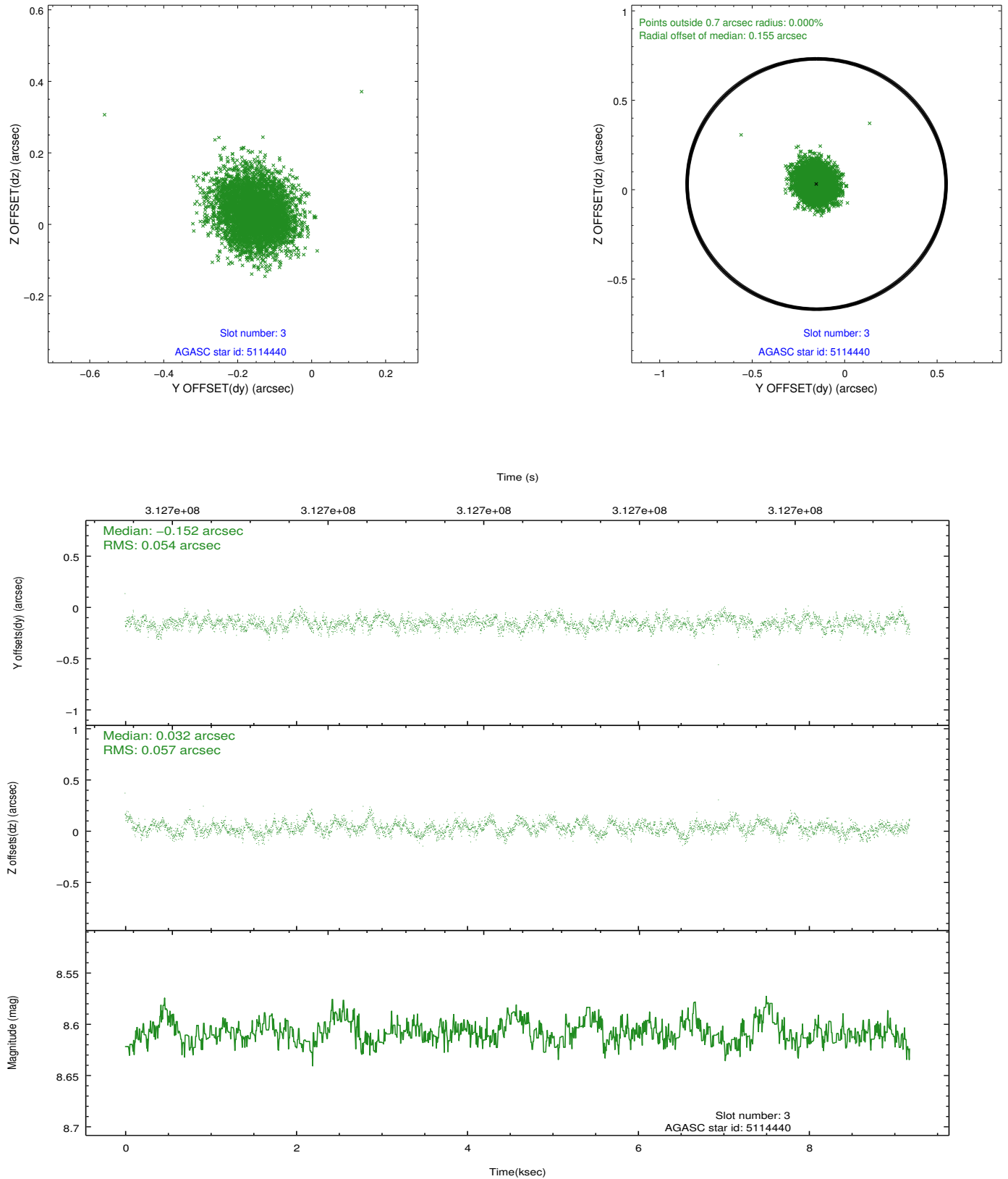


### Slot Statistics

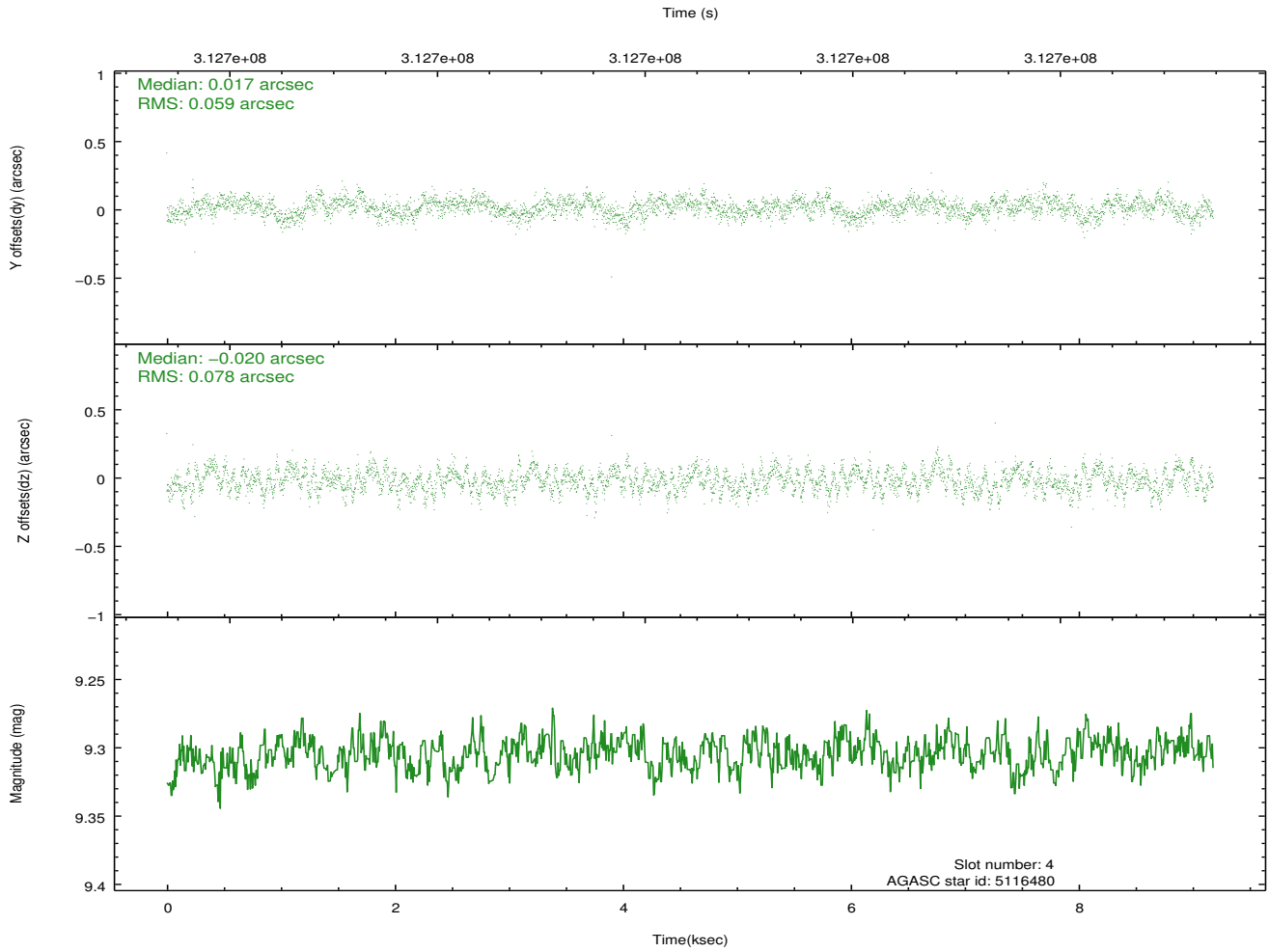
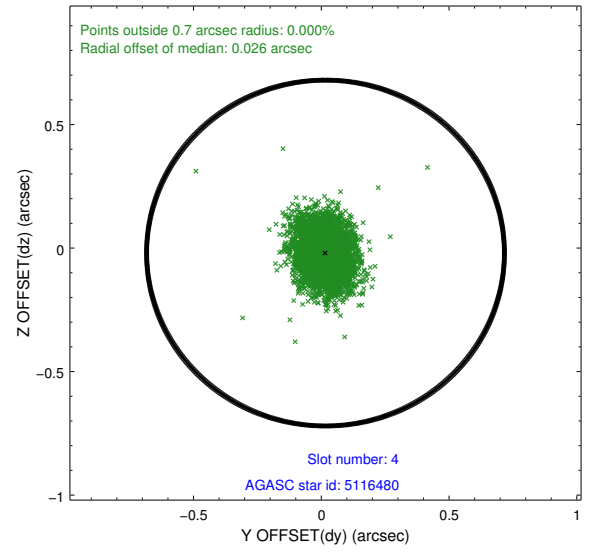
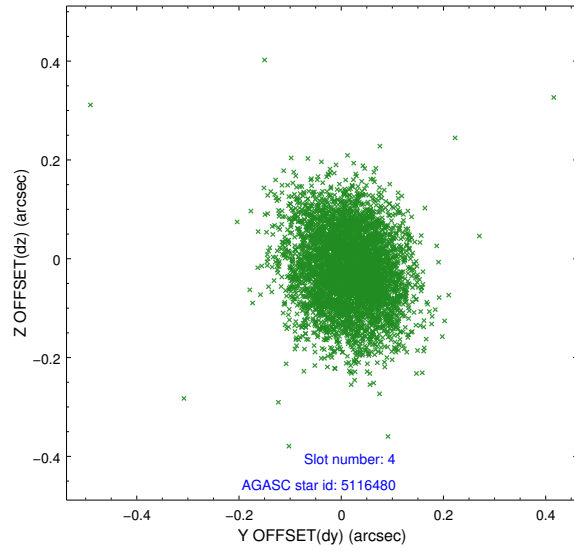
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	2240	0.022	0.009	0.006	0.012	0.000000	0.000000	925.13	-838.29
1	FID	ACIS-I-5	7.23	2240	-0.213	0.028	0.006	0.010	0.000000	0.000000	-1822.89	1058.91
2	FID	ACIS-I-6	7.24	2240	0.100	0.033	0.007	0.011	0.000000	0.000000	390.10	1704.10
3	GUIDE	5114440	8.61	4475	-0.152	0.032	0.084	0.134	37.095498	1.481540	-2225.11	1666.60
4	GUIDE	5116480	9.30	4476	0.017	-0.020	0.102	0.167	36.624607	0.603451	-837.29	-1639.67
5	GUIDE	5119056	9.54	4463	0.036	-0.063	0.148	0.259	36.799344	0.156256	809.58	-2165.77
6	GUIDE	6033288	9.01	4476	0.082	-0.033	0.088	0.137	37.919400	0.743225	1706.90	2297.15
7	GUIDE	6033872	9.44	4473	0.029	0.077	0.126	0.209	37.689972	0.822033	967.08	1835.37

## 2.4 Star Slots

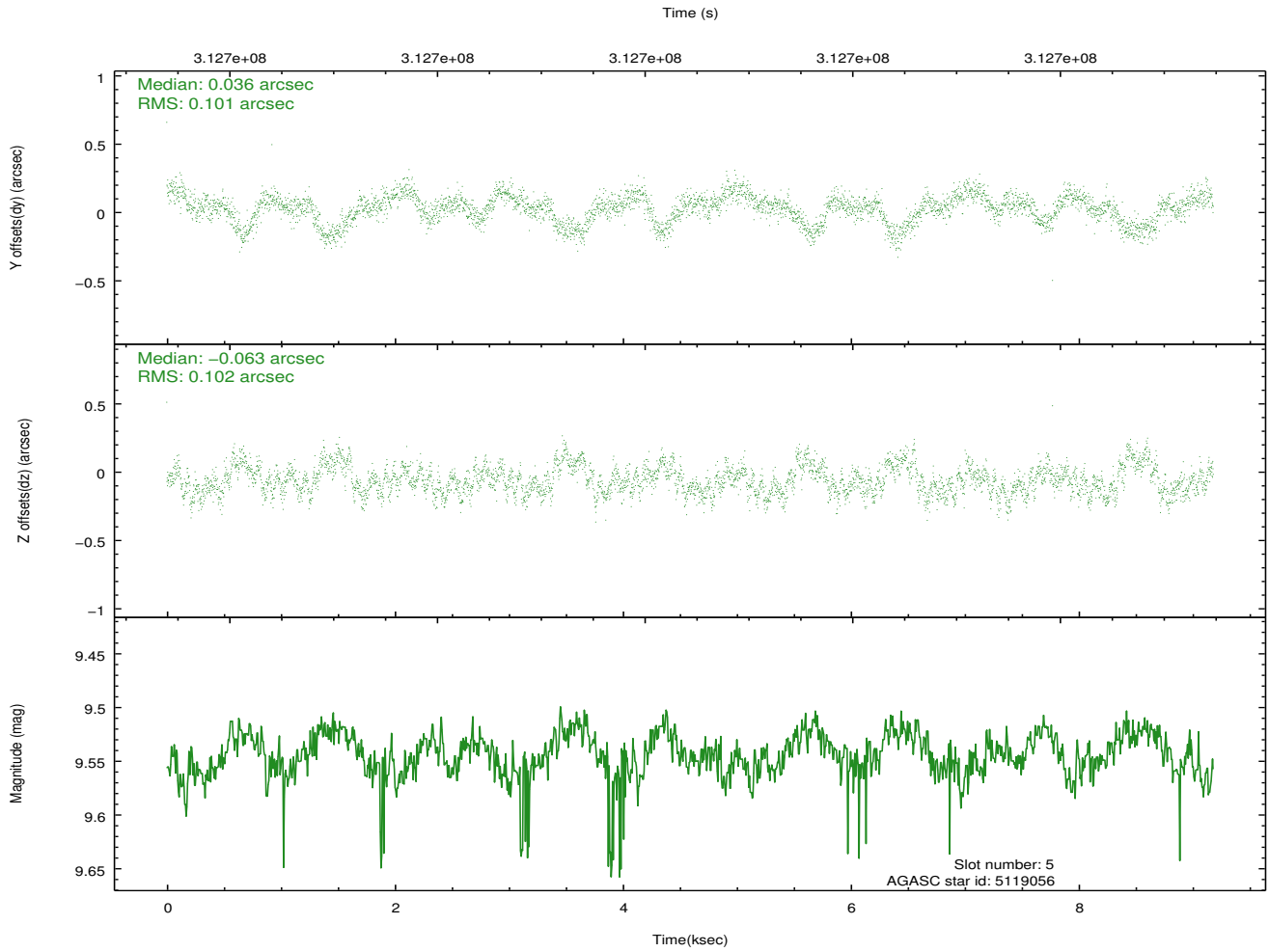
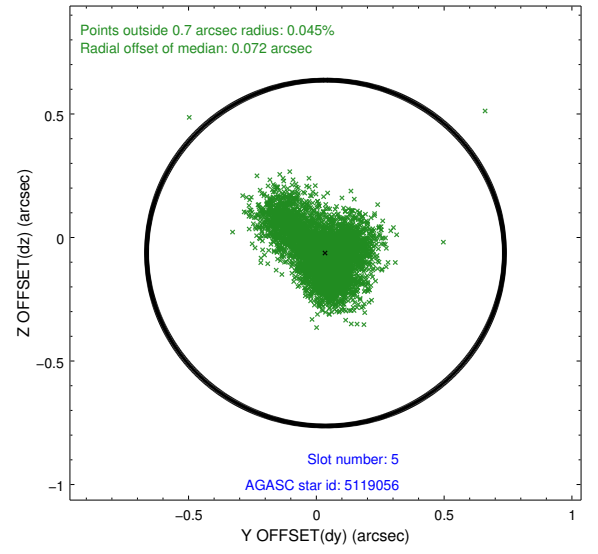
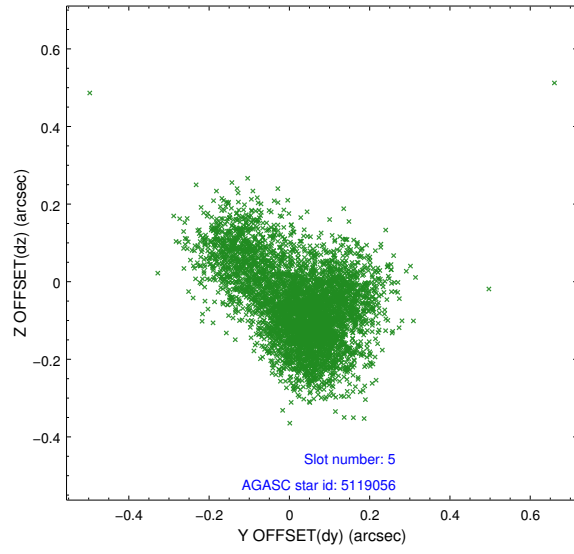
### 2.4.1 Slot 3



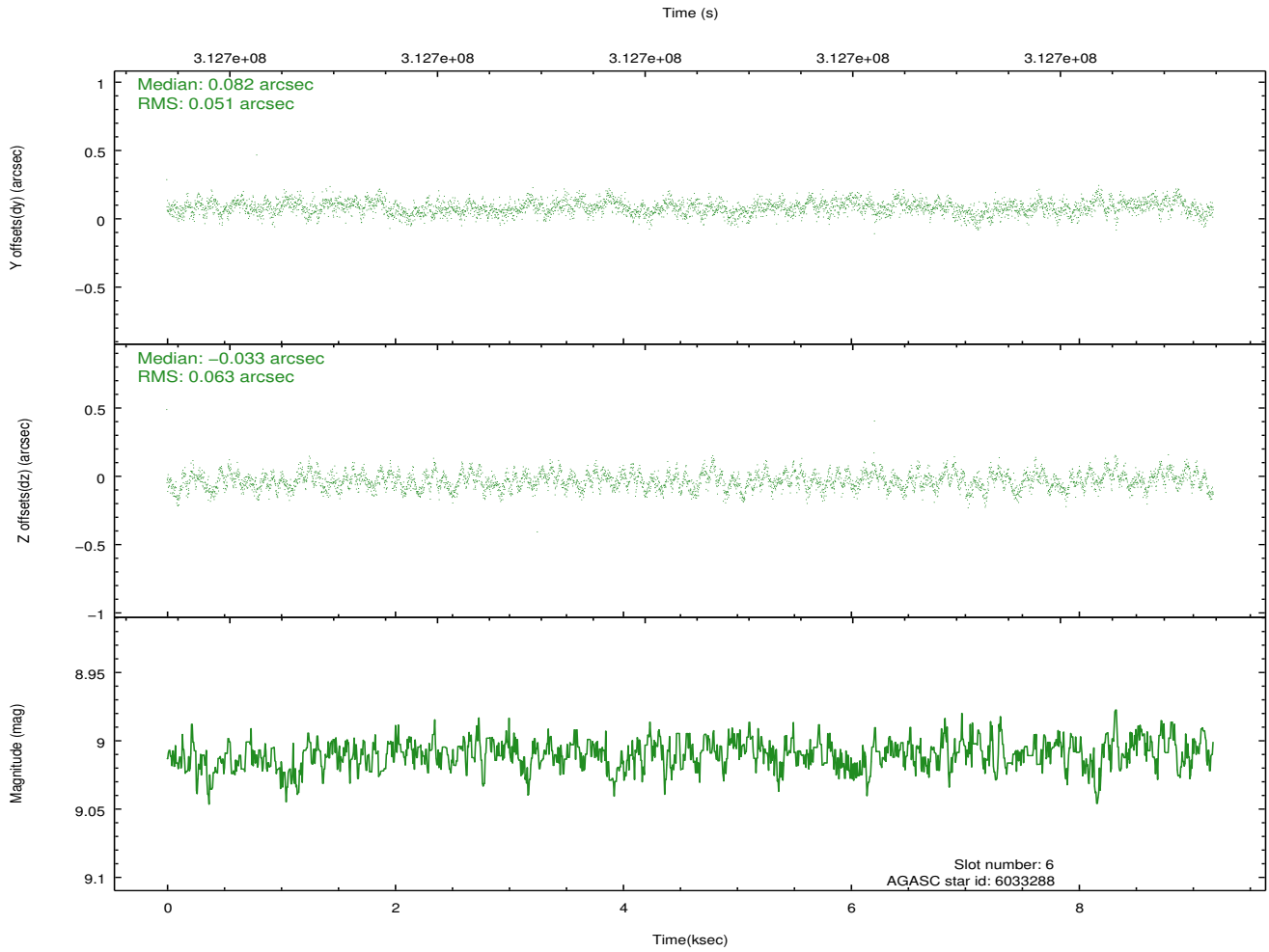
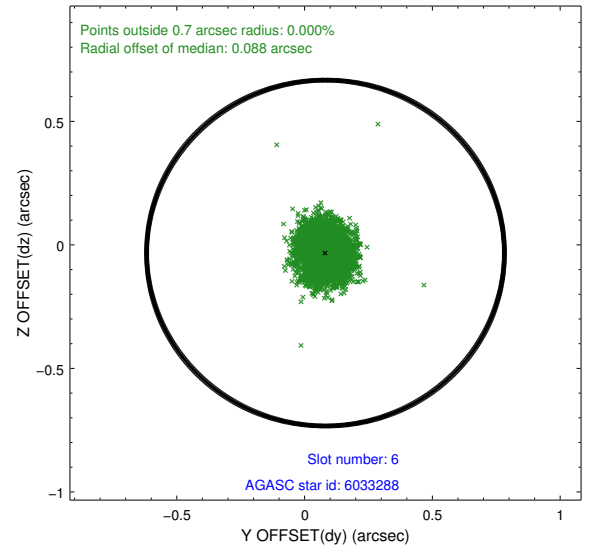
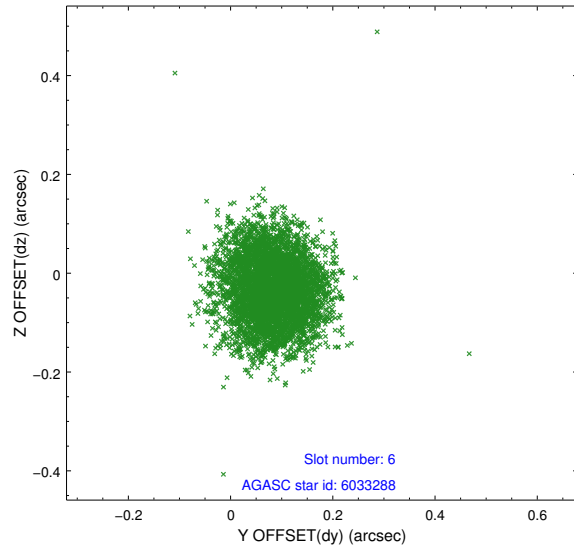
## 2.4.2 Slot 4



### 2.4.3 Slot 5

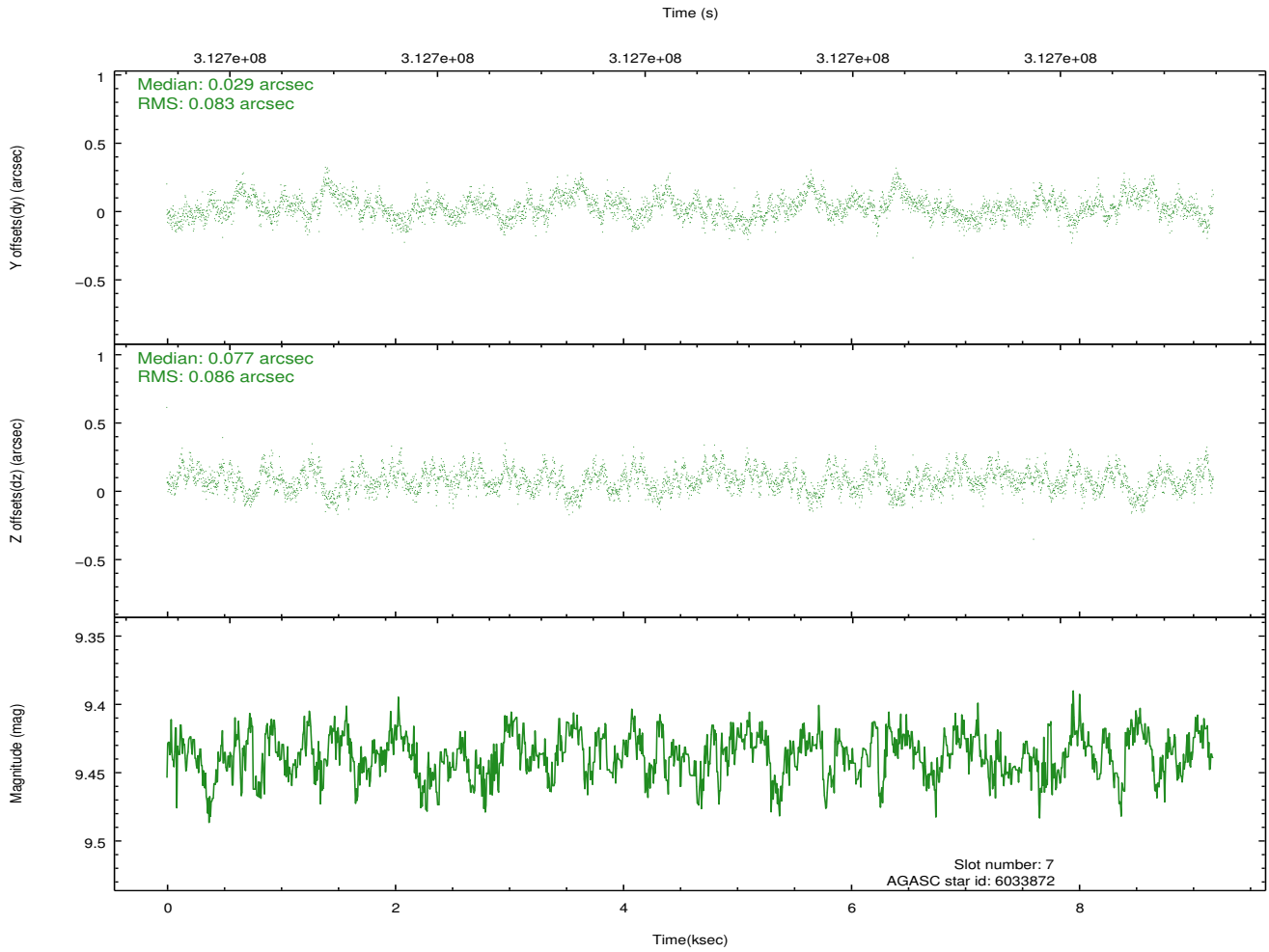
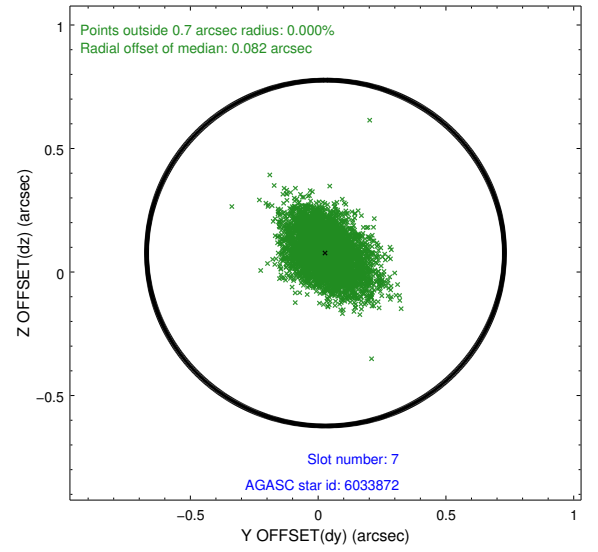
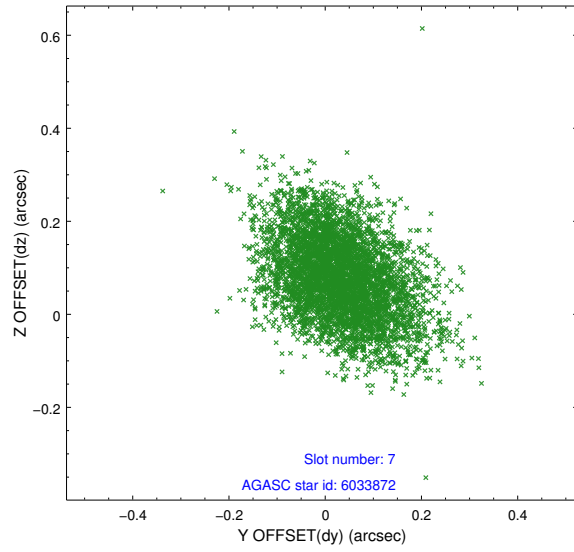


## 2.4.4 Slot 6



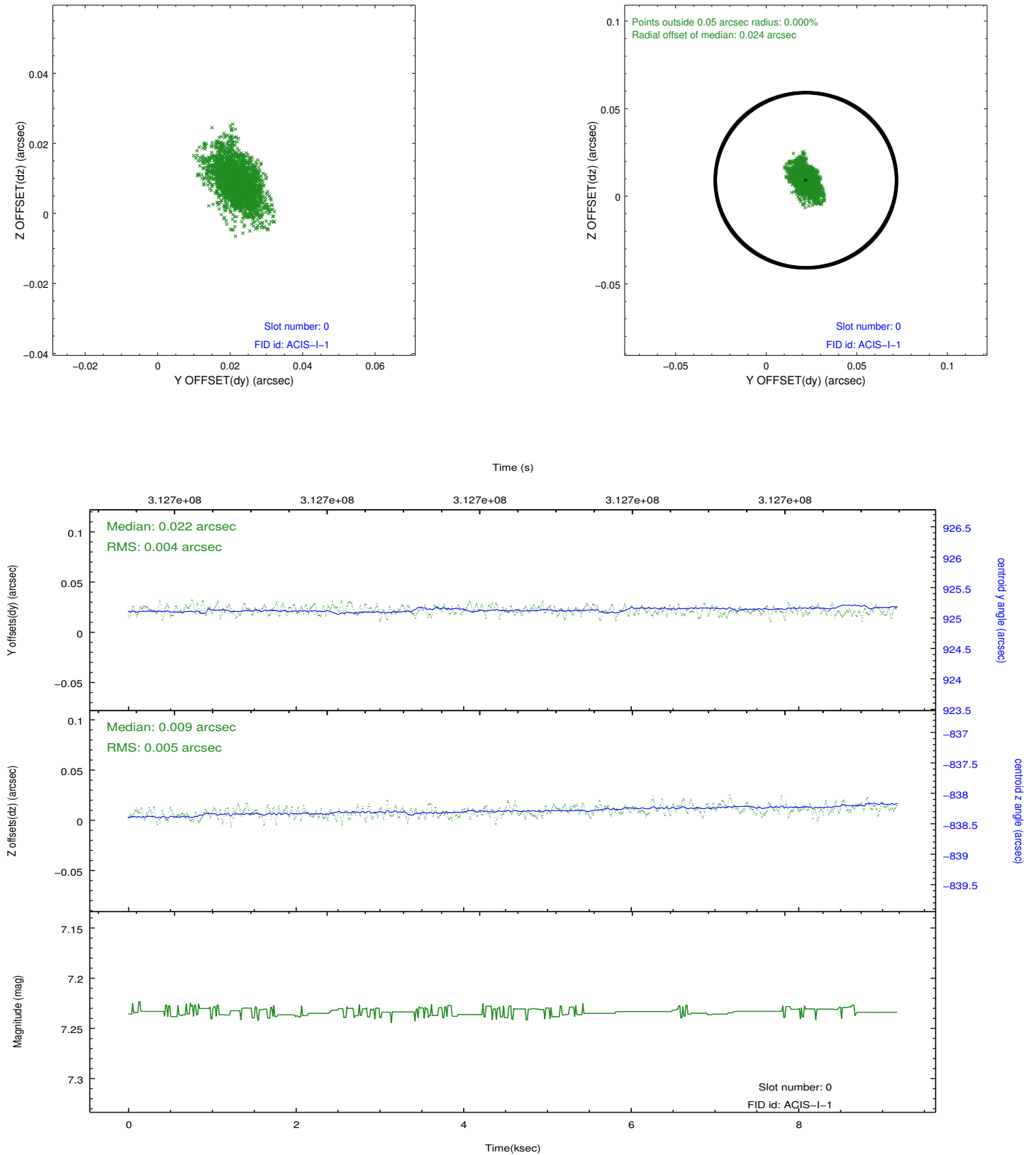


## 2.4.5 Slot 7

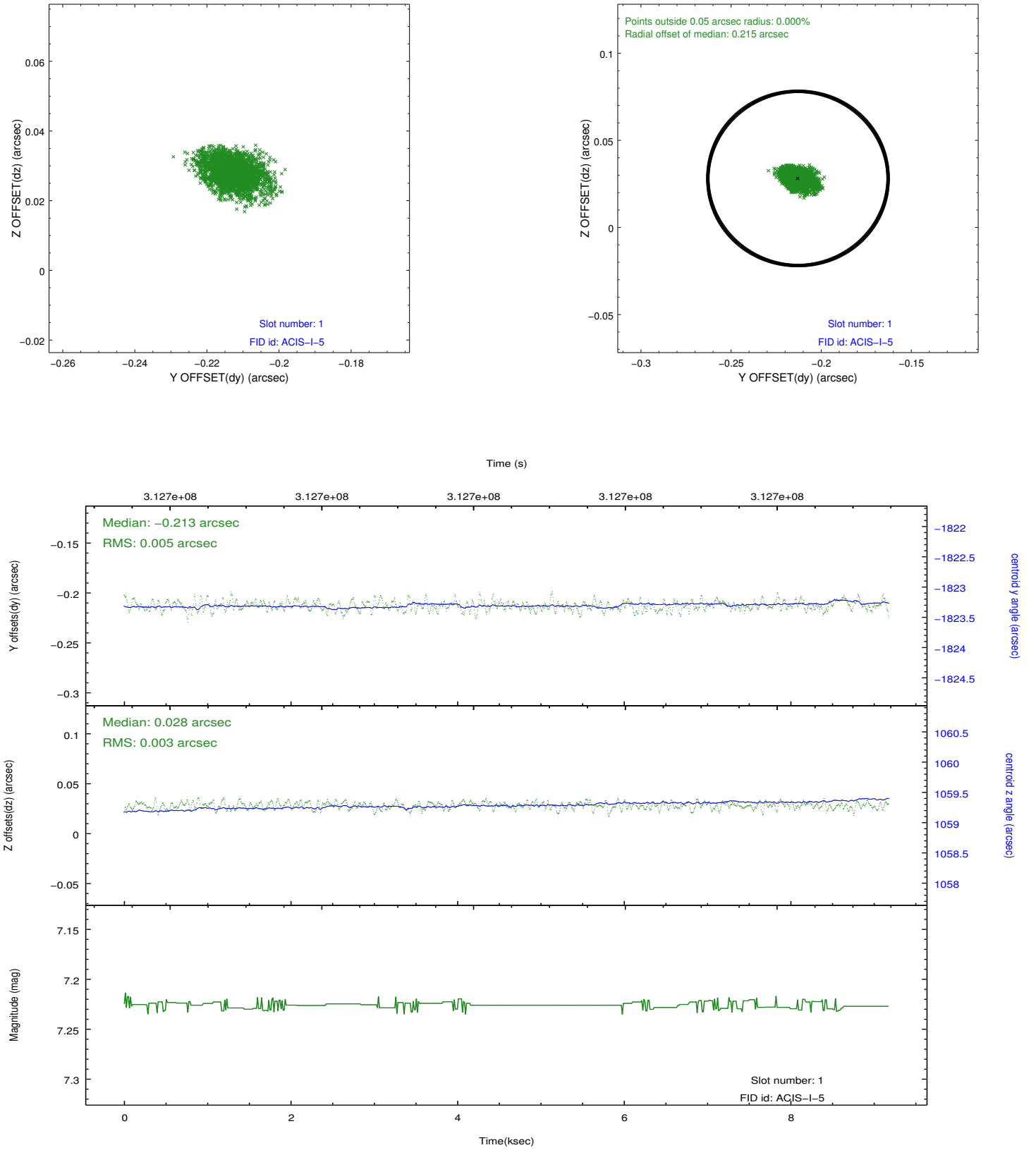


## 2.5 FID Slots

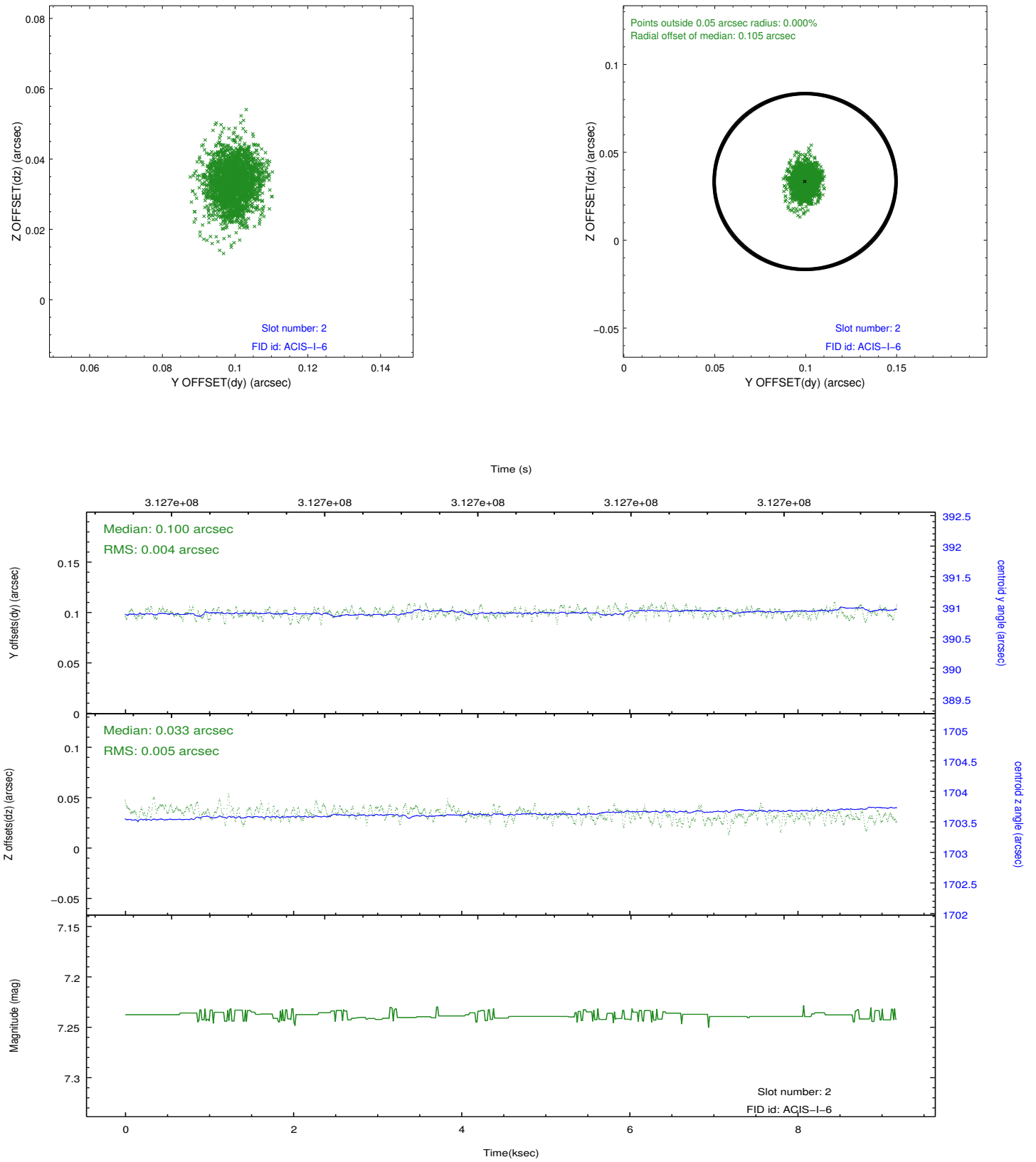
### 2.5.1 Slot 0



## 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)	2012.05.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.77300006

### A.2 Comments