

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2994 - L2 Version 002  
Chandra X-Ray Center

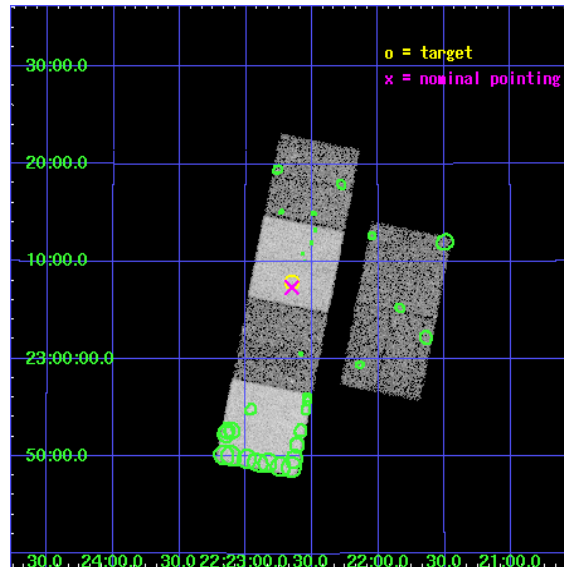
L2 Processing Date : Oct 19 2006

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# 1 Front

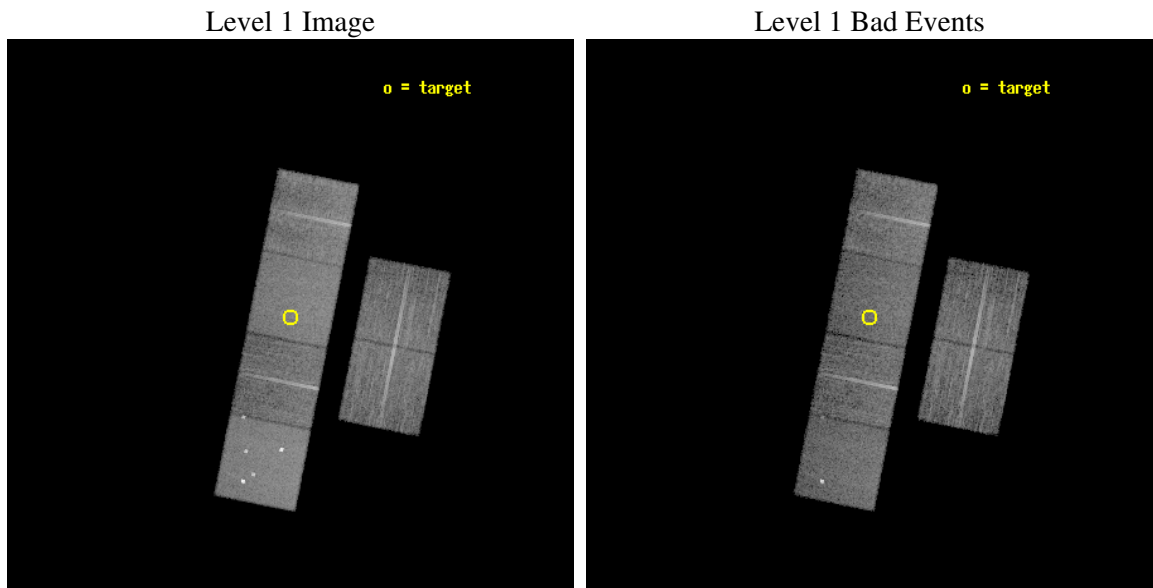
seq_num	700433
obs_id	2994
title	CHANDRA OBSERVATIONS OF A POPULATION OF TYPE 2 QUASARS DISCOVERED IN THE DPOSS
observer	PROF. S. DJORGOVSKI
object	PSS 2222+2307
dtcycle	0
cycle	P
ra_targ	335.662917
dec_targ	23.132222
ra_nom	335.66313044245
dec_nom	23.122551046777
roll_nom	281.24614324938
revision	4
ontime	13718.317998439
livetime	13544.608395763
ontime2	13721.559038401
ontime3	13721.559008509
ontime5	13718.317998439
ontime6	13724.799948871
ontime7	13718.317998439
ontime8	13715.077077985
l2events	124177



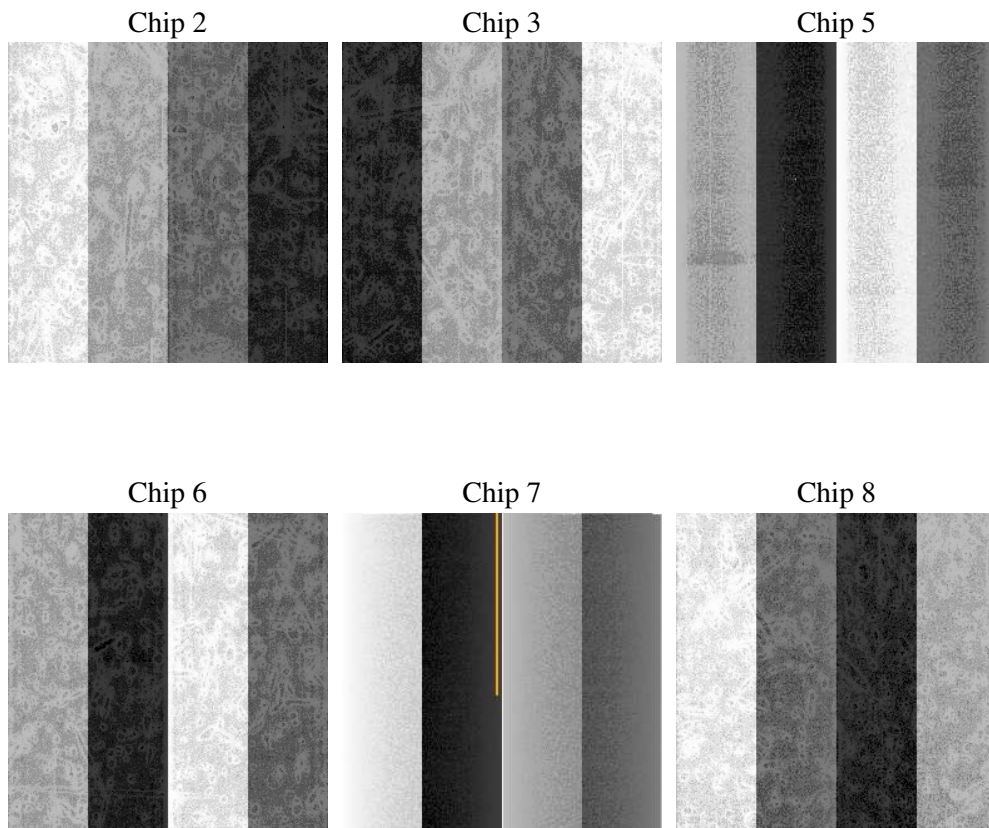
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-19T17:53:11
revision	4

sched_exp_time	14000.000000
ontime	13722.399700493
ontime2	13725.640710533
ontime3	13725.640680641
ontime5	13722.399700493
ontime6	13728.881621003
ontime7	13722.399700493
ontime8	13719.158650458
l1events	594650

### 2.1.4 Events

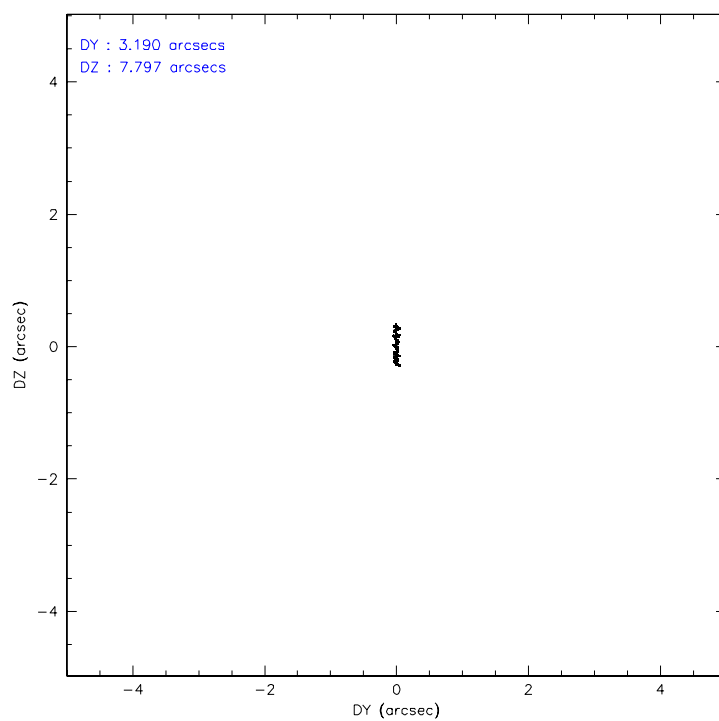
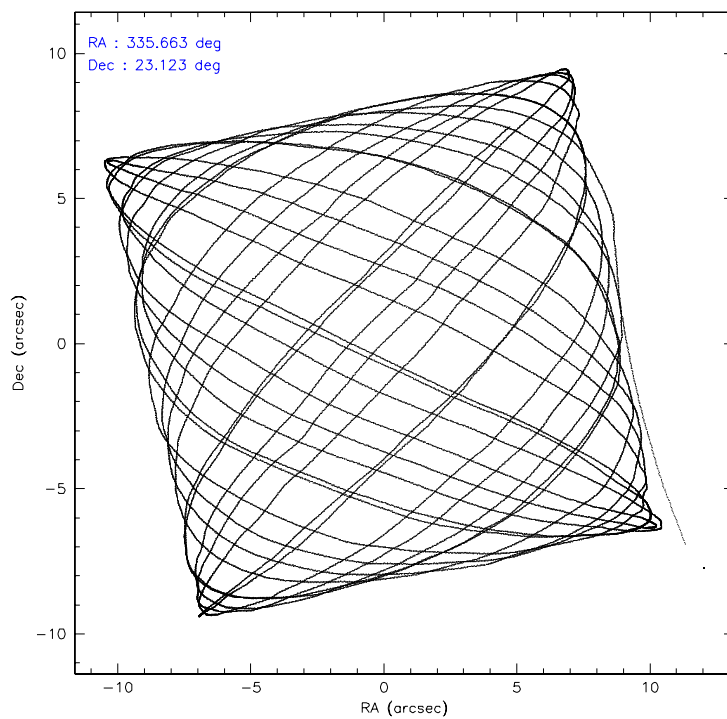
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	87374	82338	128084	81250	108902	106702
rejected events	77572	72818	69464	71488	68020	85166
rejected %	88%	88%	54%	87%	62%	79%

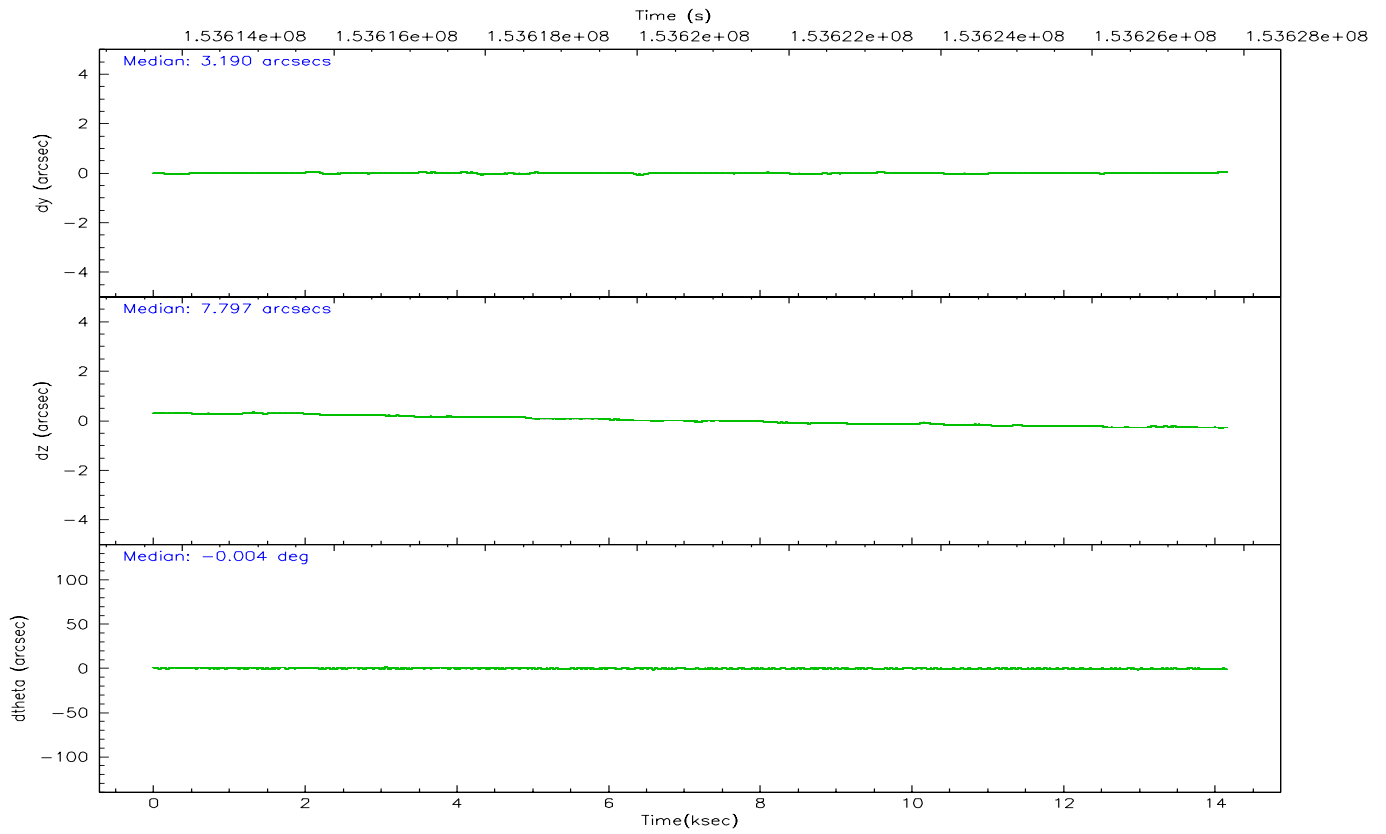
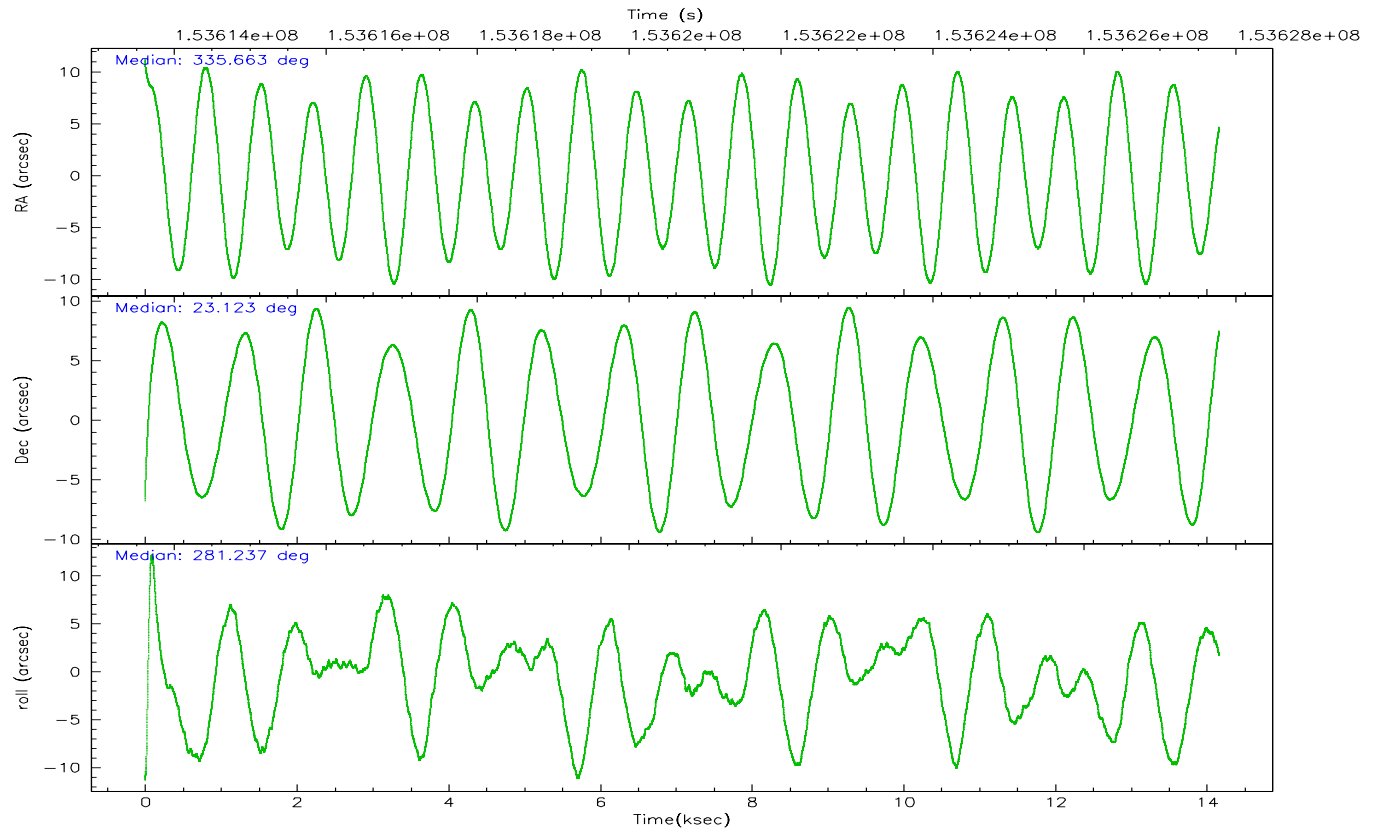
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4389	4209	8346	3903	2217	6958
	5%	5%	6%	4%	2%	6%
grade 1 events	47	53	159	43	59	79
	0%	0%	0%	0%	0%	0%
grade 2 events	1912	1772	17560	1968	10180	4460
	2%	2%	13%	2%	9%	4%
grade 3 events	945	896	1228	1028	2031	2380
	1%	1%	0%	1%	1%	2%
grade 4 events	972	979	1150	938	2012	2290
	1%	1%	0%	1%	1%	2%
grade 5 events	3118	3536	5841	3629	7093	4788
	3%	4%	4%	4%	6%	4%
grade 6 events	1588	1666	30355	1927	24452	5451
	1%	2%	23%	2%	22%	5%
grade 7 events	74403	69227	63445	67814	60858	80296
	85%	84%	49%	83%	55%	75%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	335.643302	335.663130442449	Subarray requested	NONE	NONE
Pointing Dec	23.142786	23.12255104677746	Alternating exposures requested	N	N
Pointing Roll	281.097334	281.2461432493752	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	153613774.184000	153612975.94408			
Observation start date	2002-11-13T22:28:30	2002-11-13T22:16:15			
Observation end time	153627774.184000	153628658.95723			
Observation end date	2002-11-14T02:21:50	2002-11-14T02:37:38			
Read mode	TIMED	TIMED			

## 2.3 Aspect





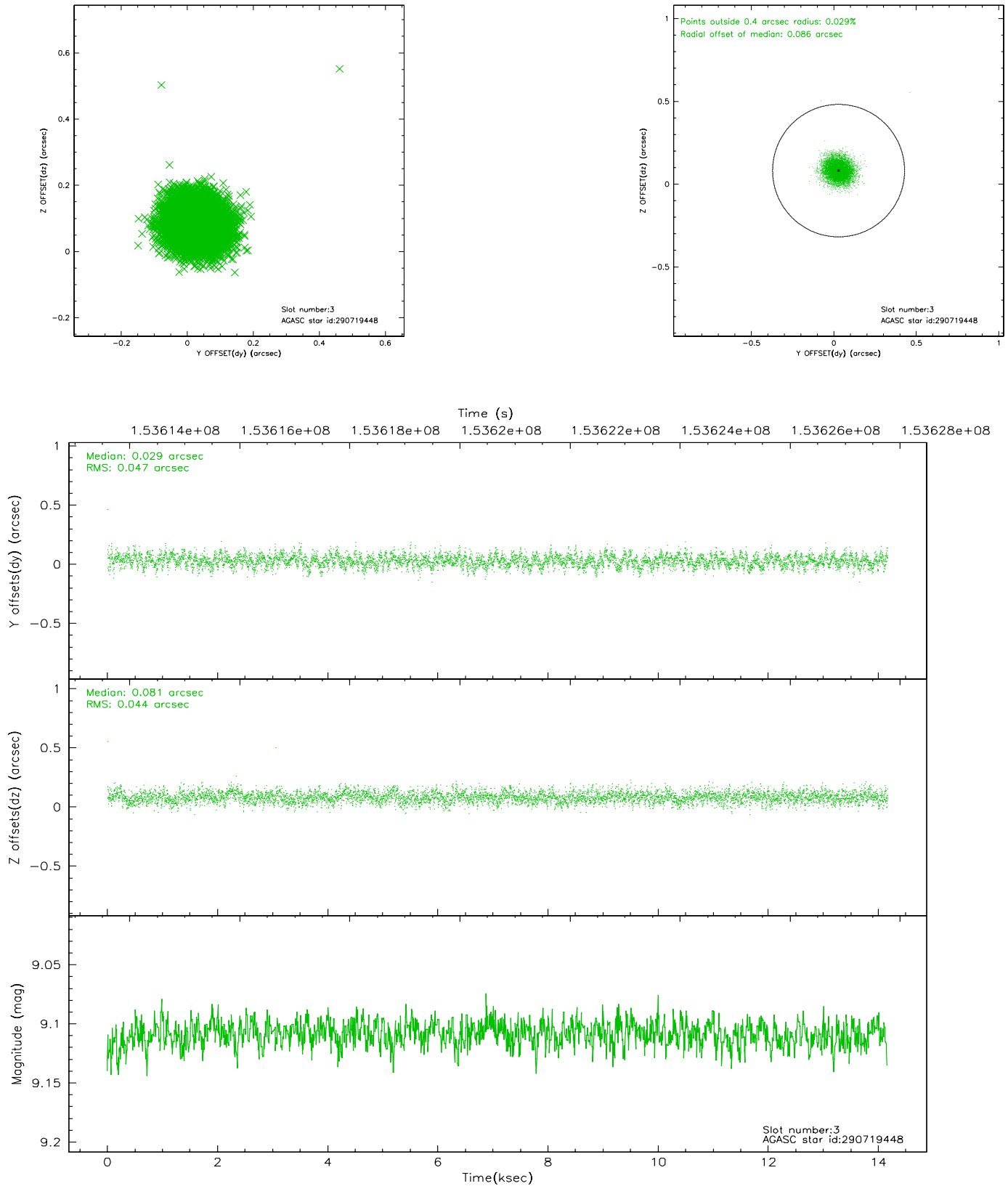
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	3452	0.000	0.013	0.007	0.012	0.000000	0.000000	-755.84	-1728.93
1	FID	ACIS-S-4	7.20	3450	-0.035	-0.004	0.005	0.008	0.000000	0.000000	2157.26	179.18
2	FID	ACIS-S-5	7.24	3450	0.004	-0.001	0.007	0.011	0.000000	0.000000	-1808.25	173.25
3	GUIDE	290719448	9.11	6903	0.029	0.081	0.068	0.110	336.372154	22.824814	1582.92	2153.85
4	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	290721992	7.95	6907	-0.065	-0.187	0.054	0.089	335.178568	23.060909	-8.69	-1567.29
6	GUIDE	290731928	9.49	6883	0.126	0.087	0.088	0.140	336.296969	22.861667	1405.91	1933.60
7	GUIDE	290724624	9.03	6906	-0.092	0.016	0.076	0.123	336.156885	23.628362	-1392.24	1998.82

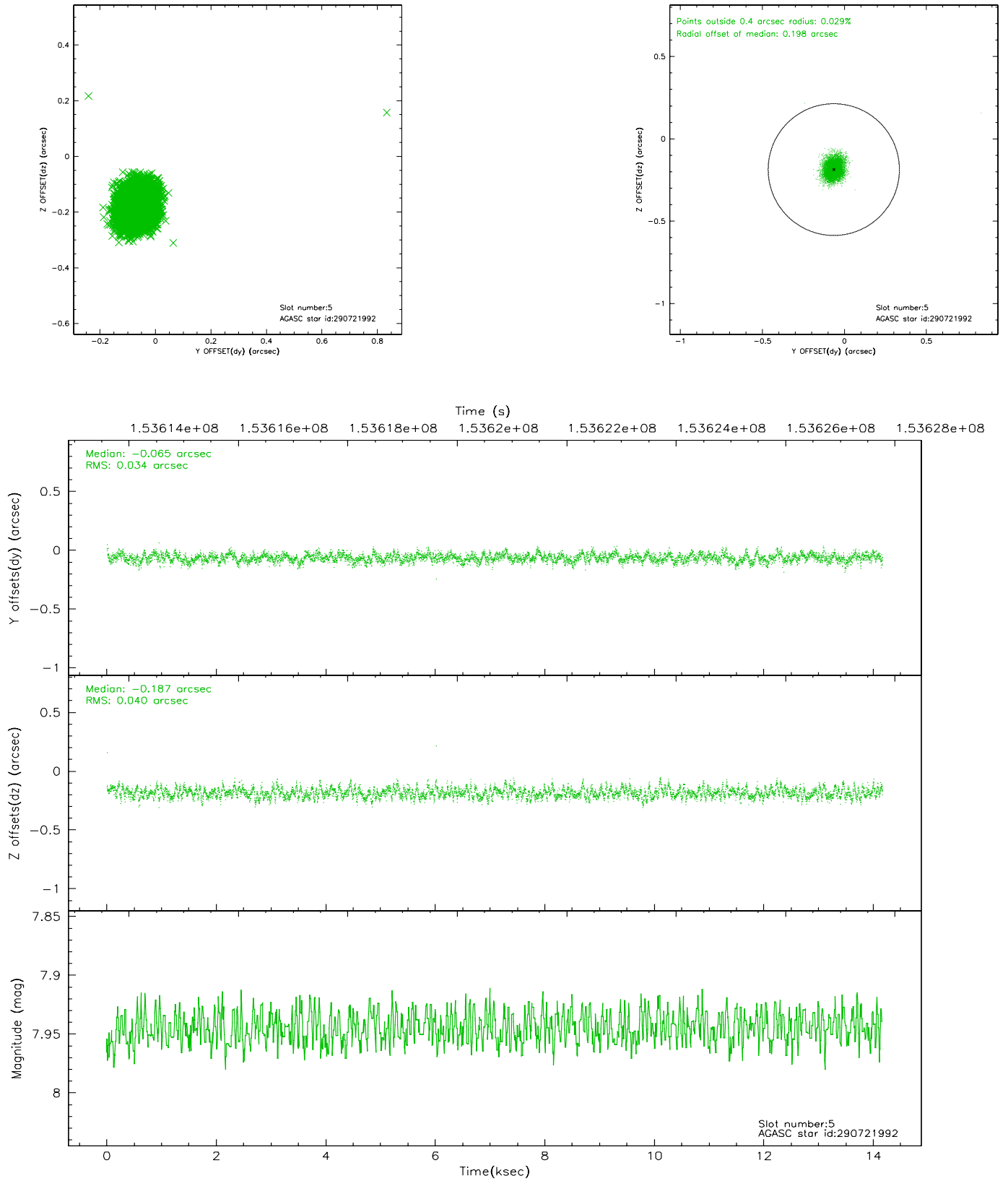


## 2.4 Star Slots

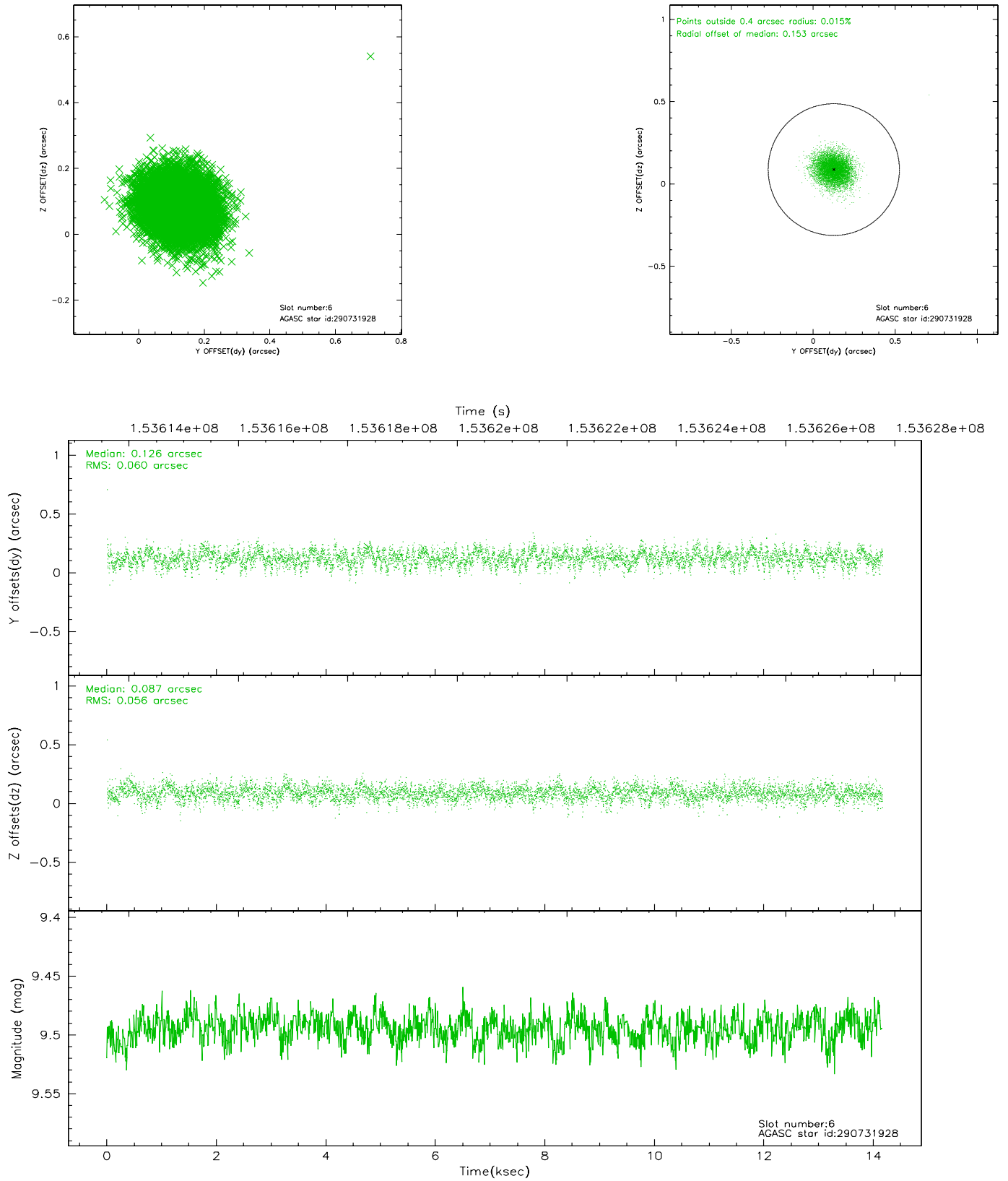
### 2.4.1 Slot 3



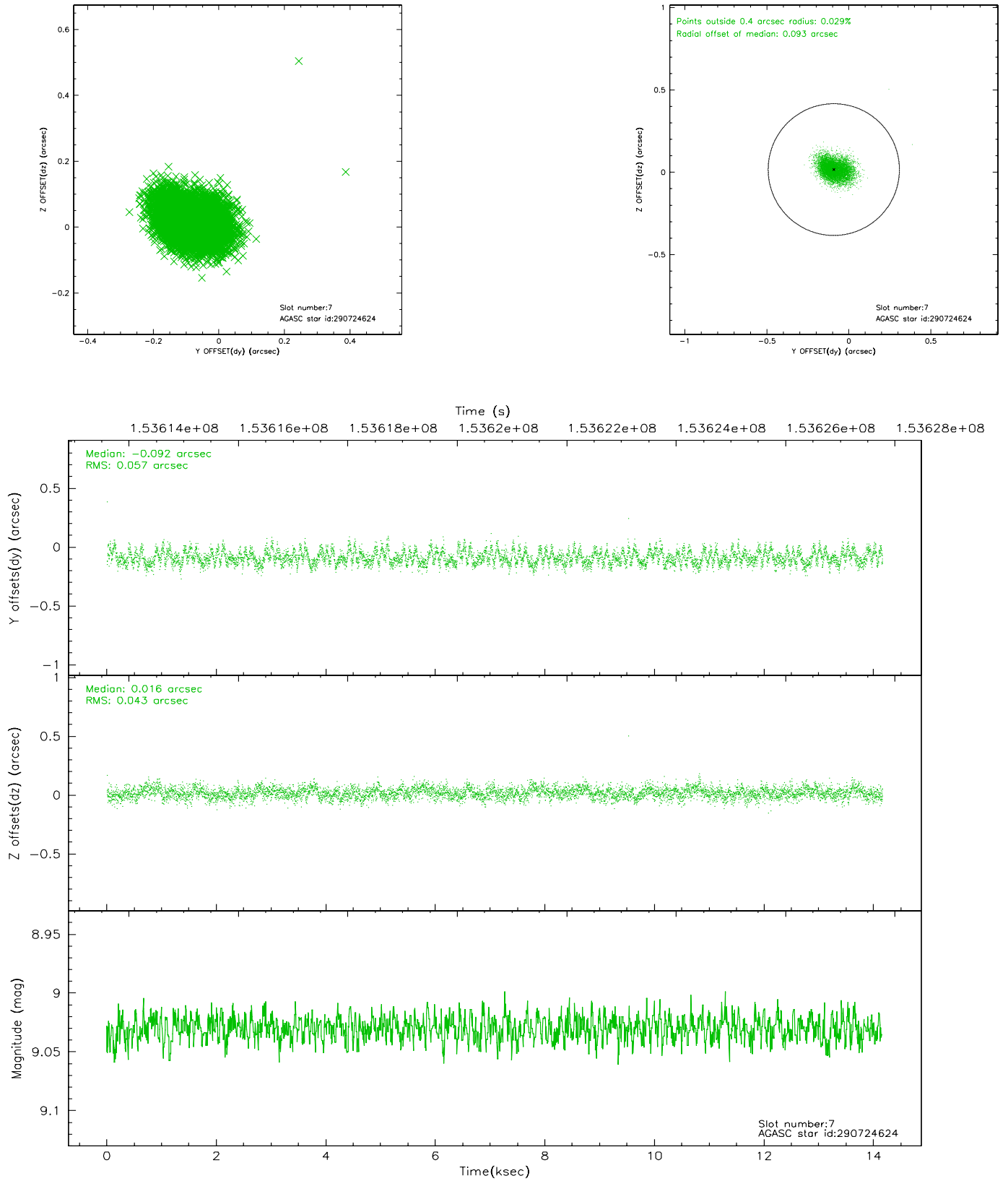
## 2.4.2 Slot 5



### 2.4.3 Slot 6

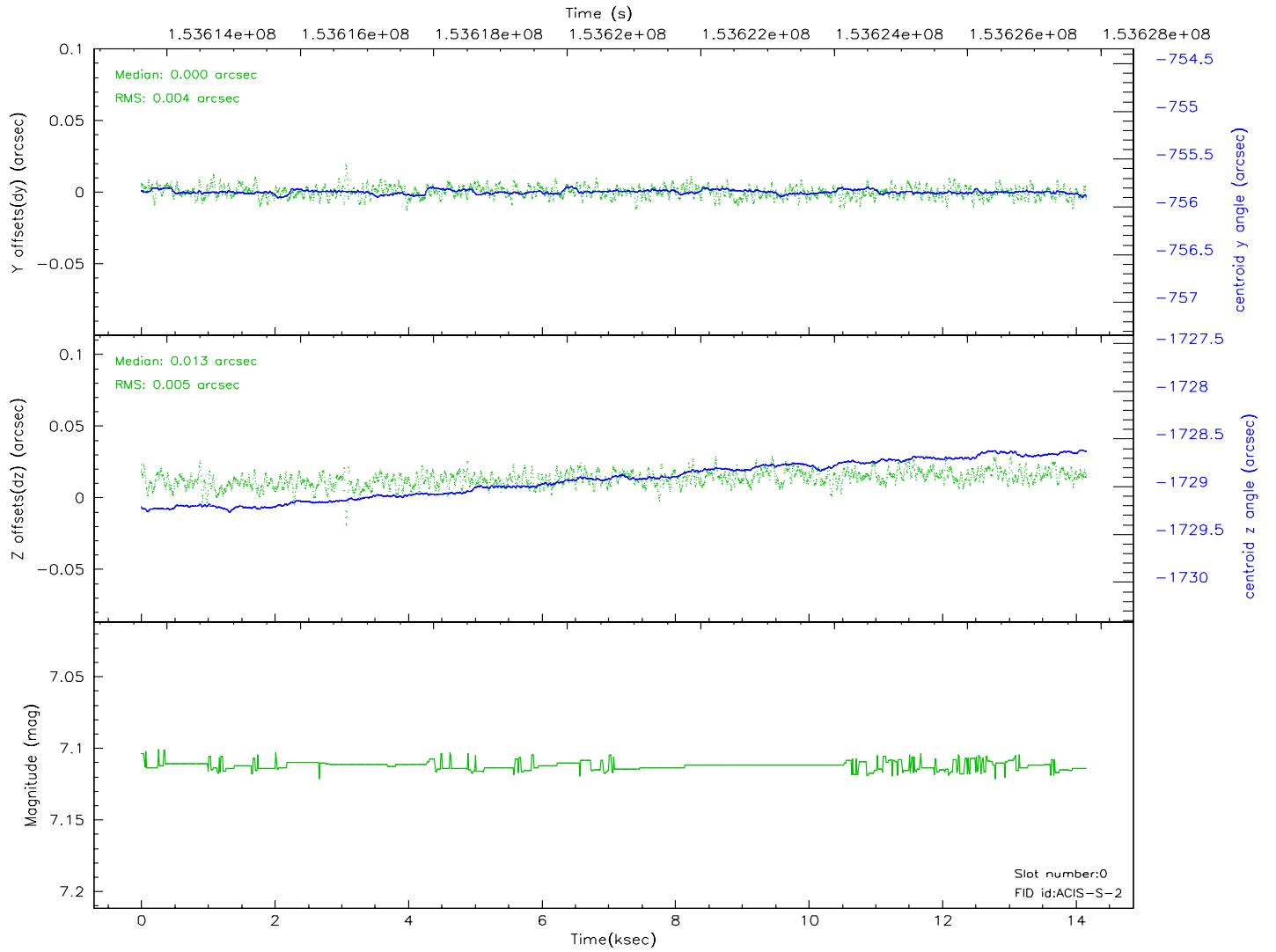
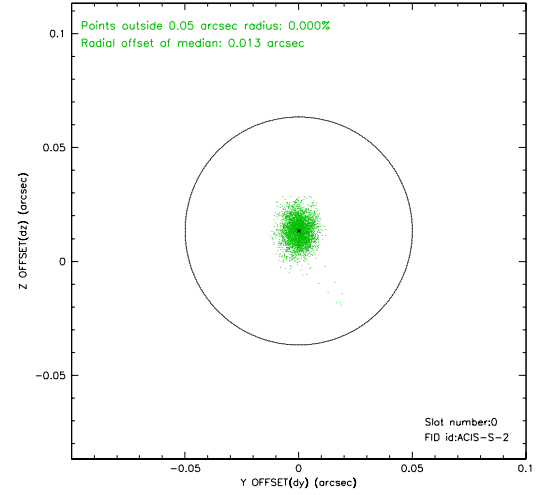
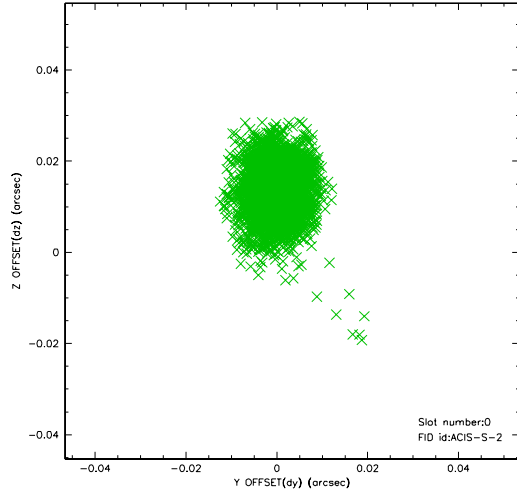


## 2.4.4 Slot 7

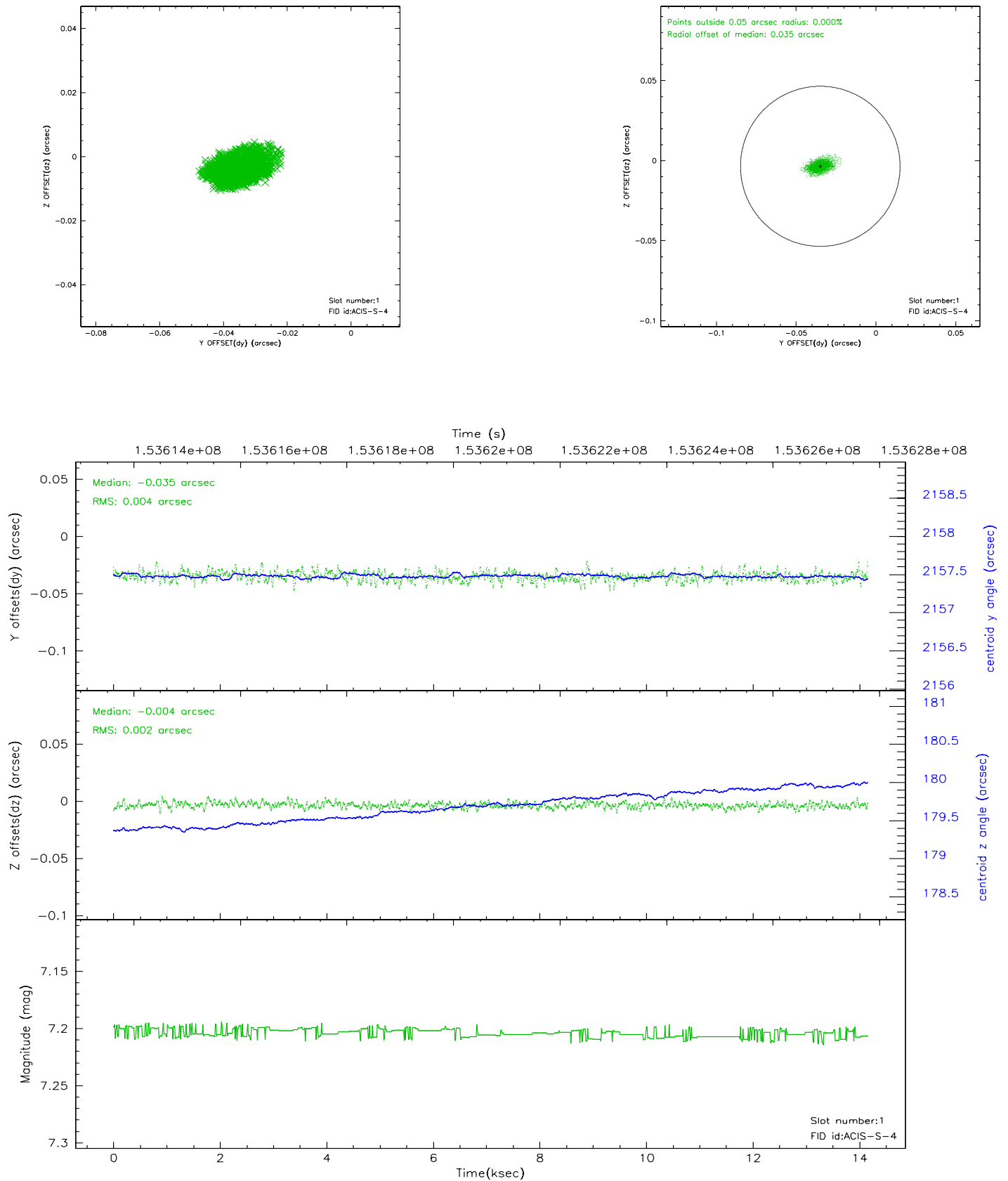


## 2.5 FID Slots

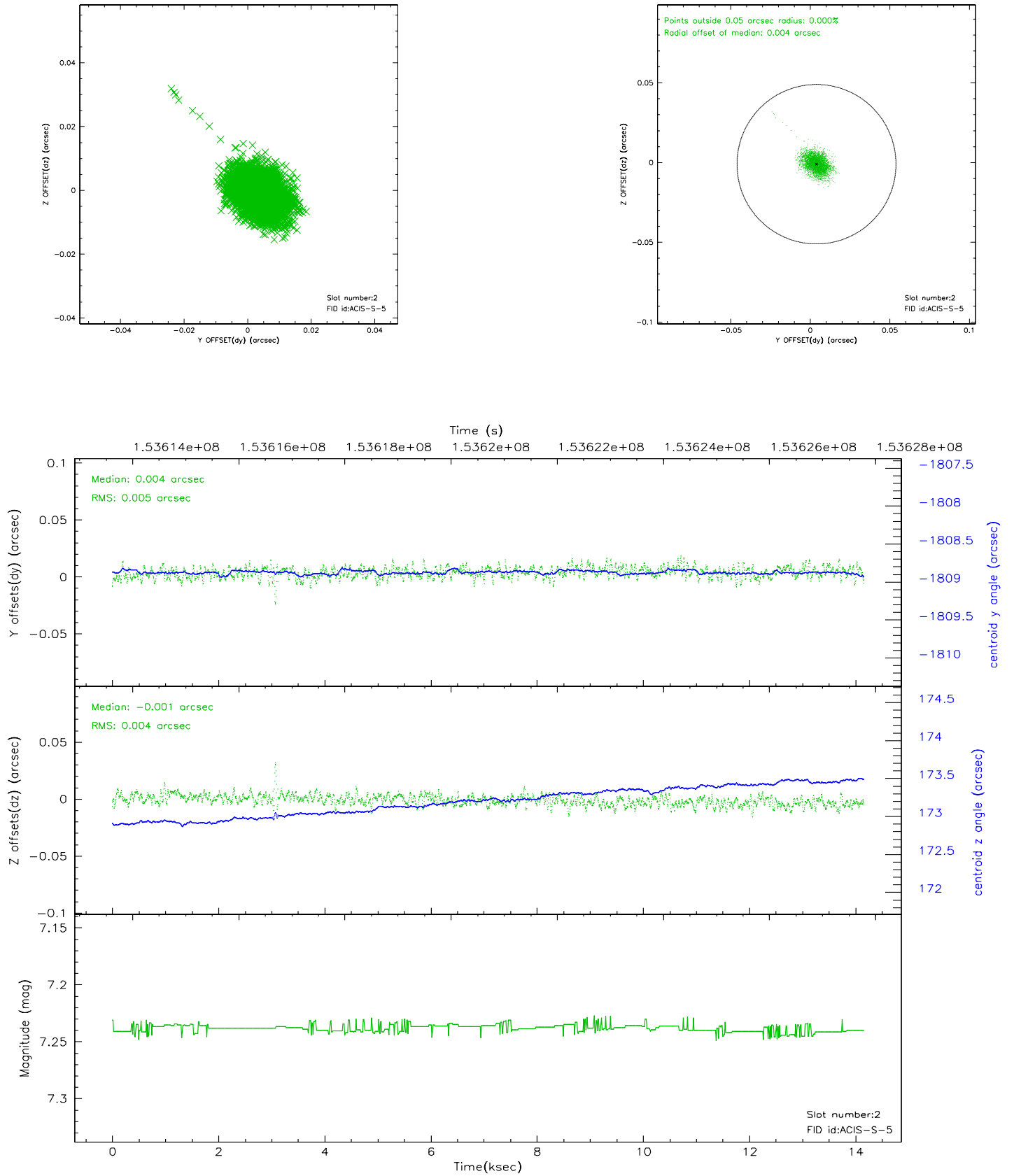
### 2.5.1 Slot 0



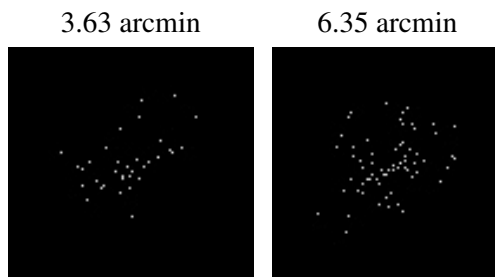
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources





# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.711

## A.2 Comments

The star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one star from the solution.