

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3157 - L2 Version 3  
Chandra X-Ray Center

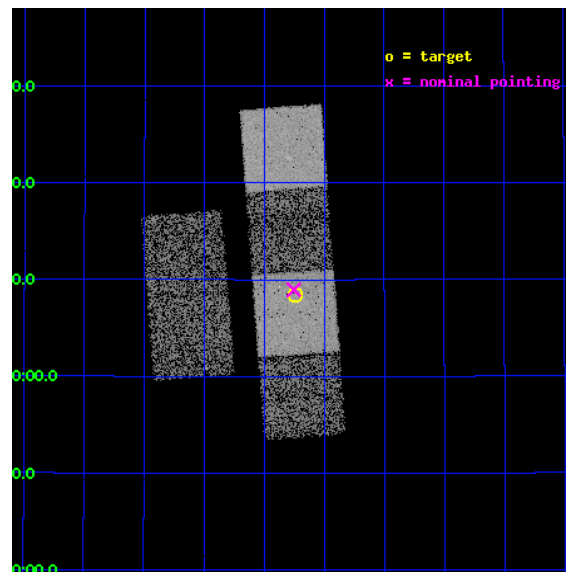
L2 Processing Date : Sep 29 2012

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# 1 Front

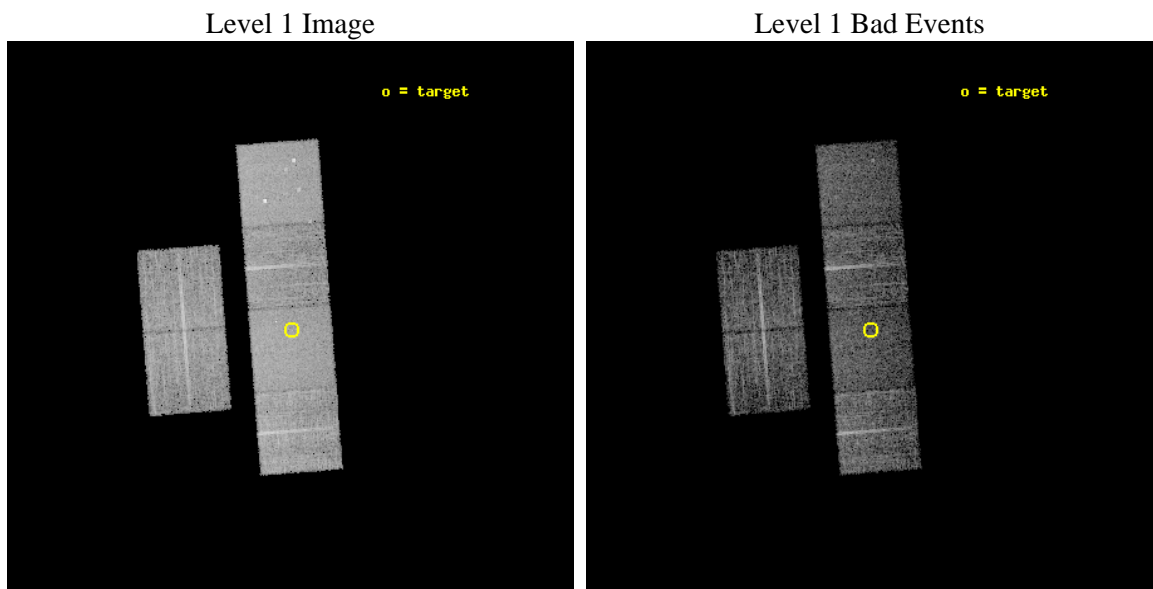
seq_num	700596	Sequence number
obs_id	3157	Observation id
title	A CHANDRA SURVEY OF THE MOST LUMINOUS QUASARS AT $Z > 4$	Proposal ti
observer	Professor Gordon Garmire	Principal investigator
object	PSS0957+3308	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.435417	Observer's specified target RA [deg]
dec_targ	33.139722	Observer's specified target Dec [deg]
ra_nom	149.43821482422	Nominal RA [deg]
dec_nom	33.14918412862	Nominal Dec [deg]
roll_nom	85.674556793554	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6112.0000056773	Sum of GTIs [s]
livetime	6034.6061814009	Livetime [s]
ontime2	6112.0000056773	Sum of GTIs [s]
ontime3	6112.0000056773	Sum of GTIs [s]
ontime5	6112.0000056773	Sum of GTIs [s]
ontime6	6112.0000056773	Sum of GTIs [s]
ontime7	6112.0000056773	Sum of GTIs [s]
ontime8	6112.0000056773	Sum of GTIs [s]
l2events	62843	Number of level 2 events



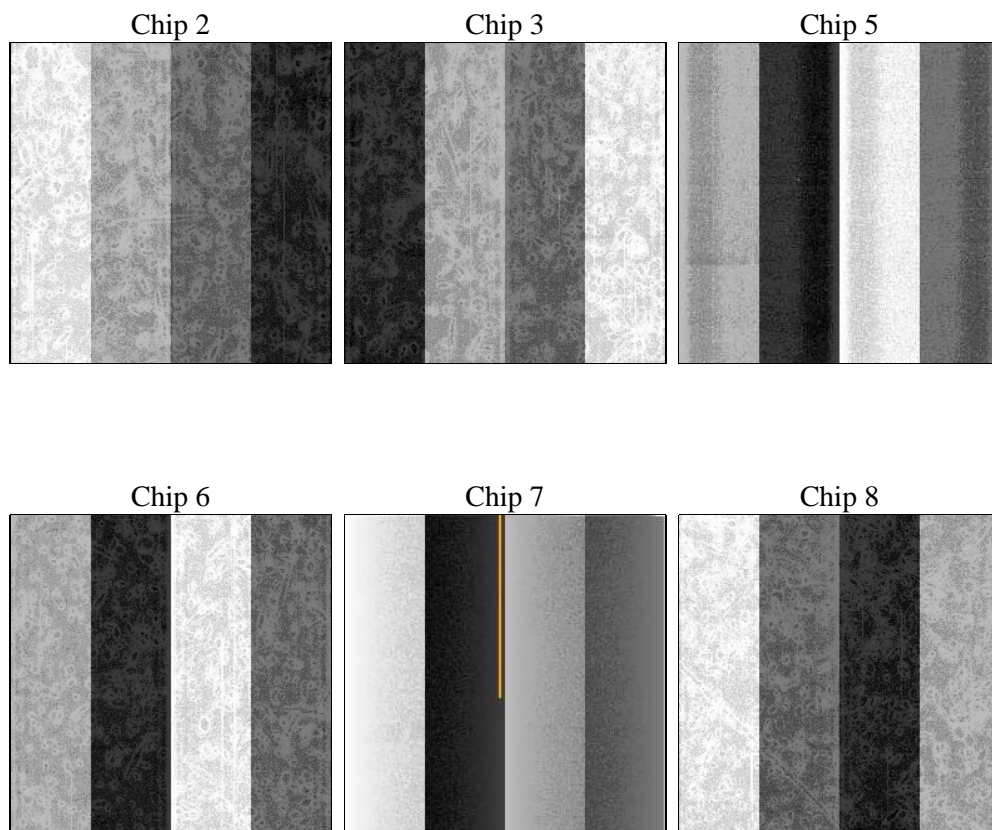
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6112.0000056773	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	6112.0000056773	Sum of GTIs [s]
date	2012-09-29T14:07:49	Date and time of file creation	ontime3	6112.0000056773	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	6112.0000056773	Sum of GTIs [s]
			ontime6	6112.0000056773	Sum of GTIs [s]
			ontime7	6112.0000056773	Sum of GTIs [s]
			ontime8	6112.0000056773	Sum of GTIs [s]
			l1events	285623	Number of level 1 events

### 2.1.4 Events

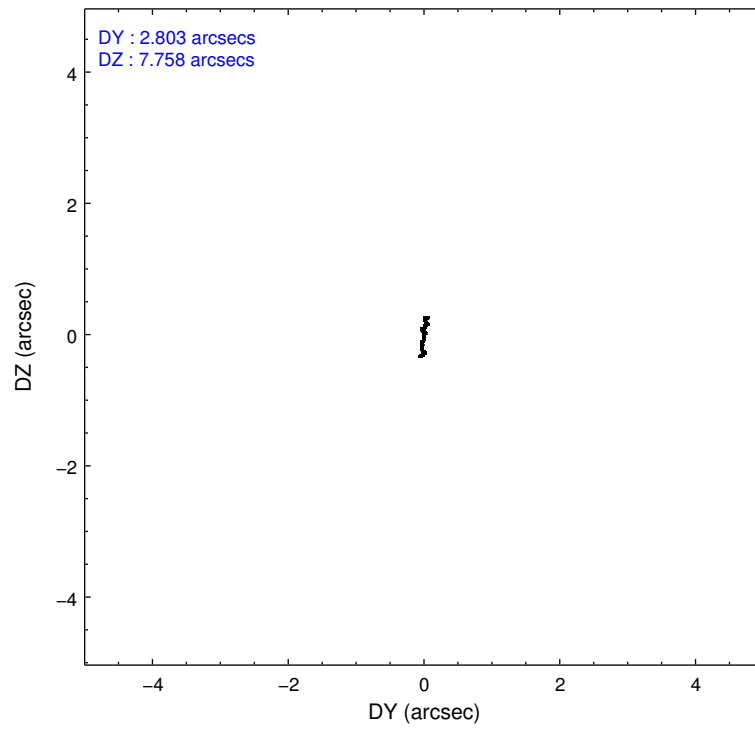
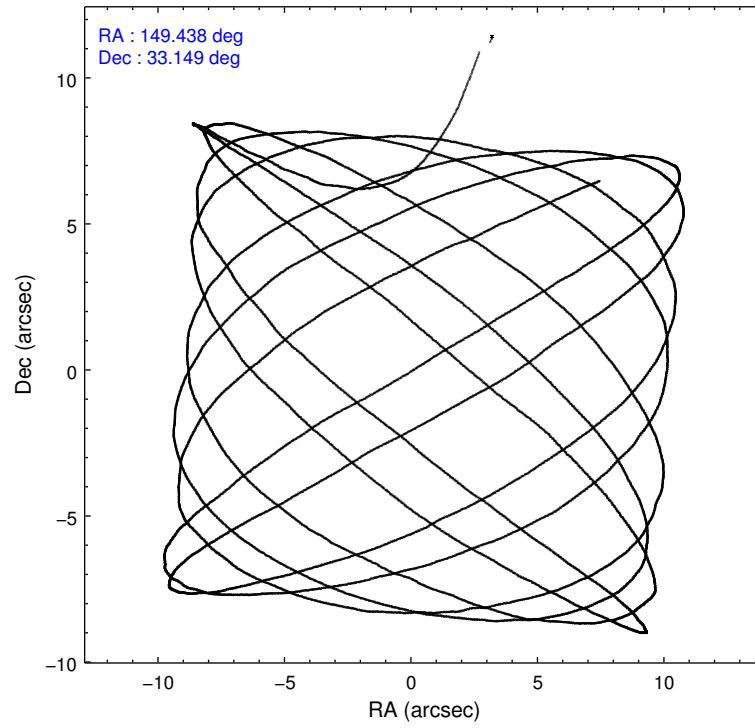
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	40641	40271	58943	40935	52387	52446	grade 0 events	1982	1975	4004	1907	2071	3215
rejected events	35899	35692	31313	36153	30554	42044		4%	4%	6%	4%	3%	6%
rejected %	88%	88%	53%	88%	58%	80%	grade 1 events	21	25	162	17	40	30
								0%	0%	0%	0%	0%	0%
							grade 2 events	1019	862	7643	955	4278	2259
								2%	2%	12%	2%	8%	4%
							grade 3 events	463	450	1075	472	1956	1139
								1%	1%	1%	1%	3%	2%
							grade 4 events	451	470	1123	489	2000	1080
								1%	1%	1%	1%	3%	2%
							grade 5 events	1361	1514	4426	1810	5048	2238
								3%	3%	7%	4%	9%	4%
							grade 6 events	832	824	13799	962	11538	2714
								2%	2%	23%	2%	22%	5%
							grade 7 events	34512	34151	26711	34323	25456	39771
								84%	84%	45%	83%	48%	75%

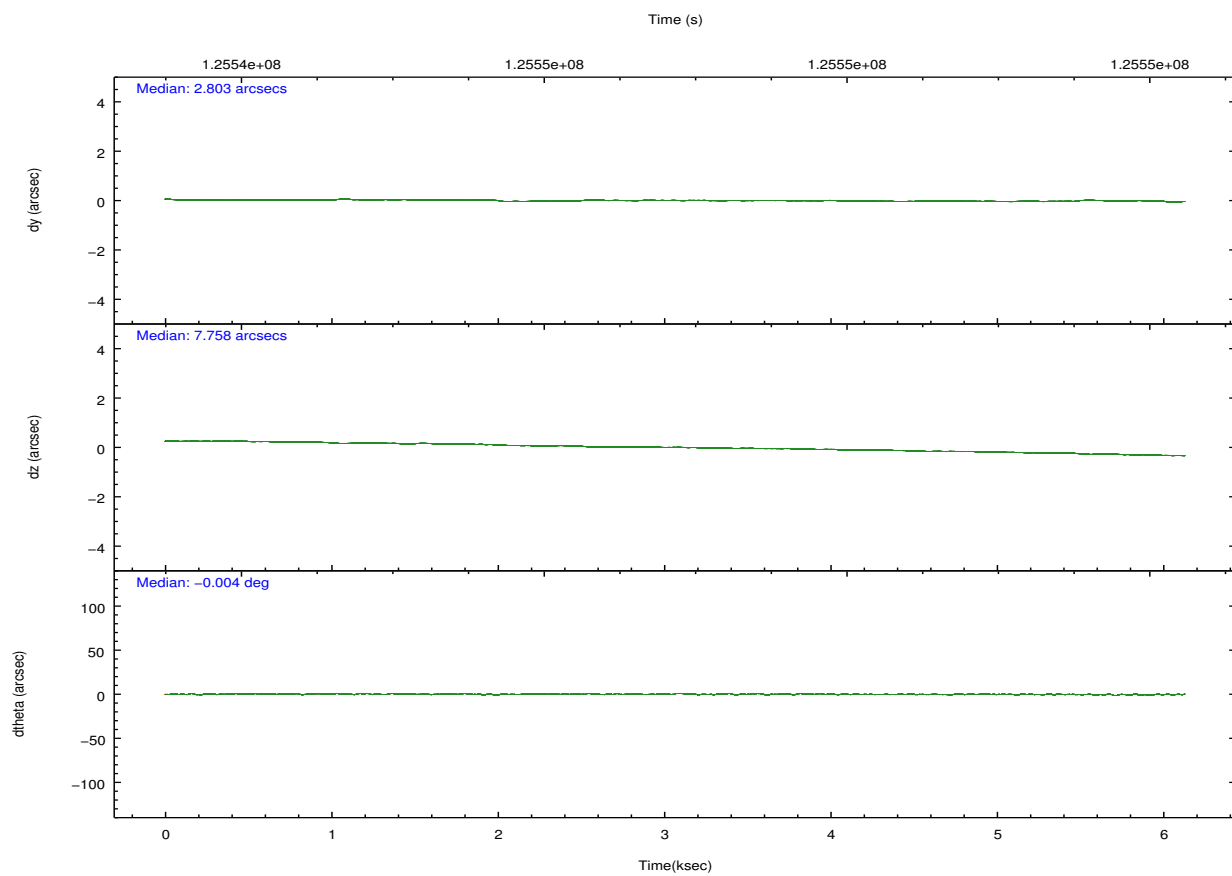
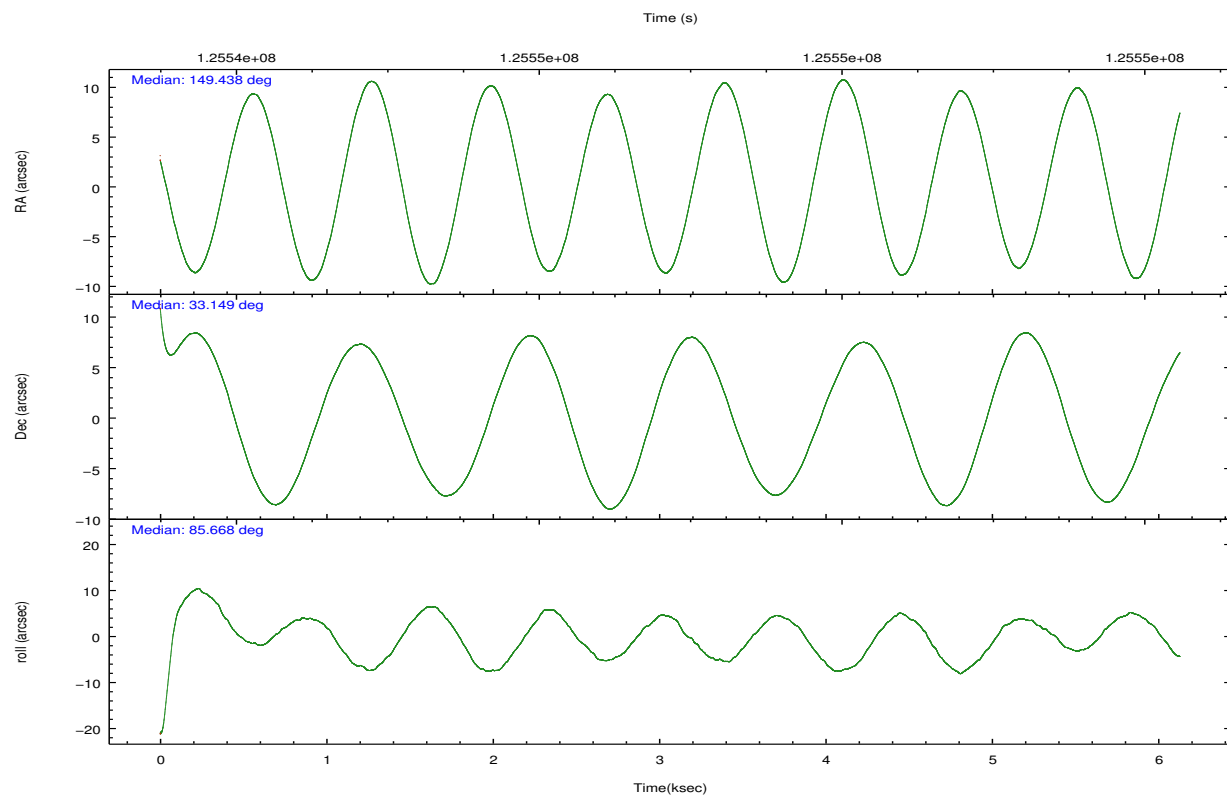


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	149.452771	149.4382148242173	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.124708	33.14918412861997	Alternating exposures requested	N	N
[deg] Pointing Roll	85.510006	85.67455679355365	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	125543928.184000	125542892.13425			
Observation start date	2001-12-24T01:17:44	2001-12-24T01:01:32			
[s] Observation end time (MET)	125549928.184000	125550624.22206			
Observation end date	2001-12-24T02:57:44	2001-12-24T03:10:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect



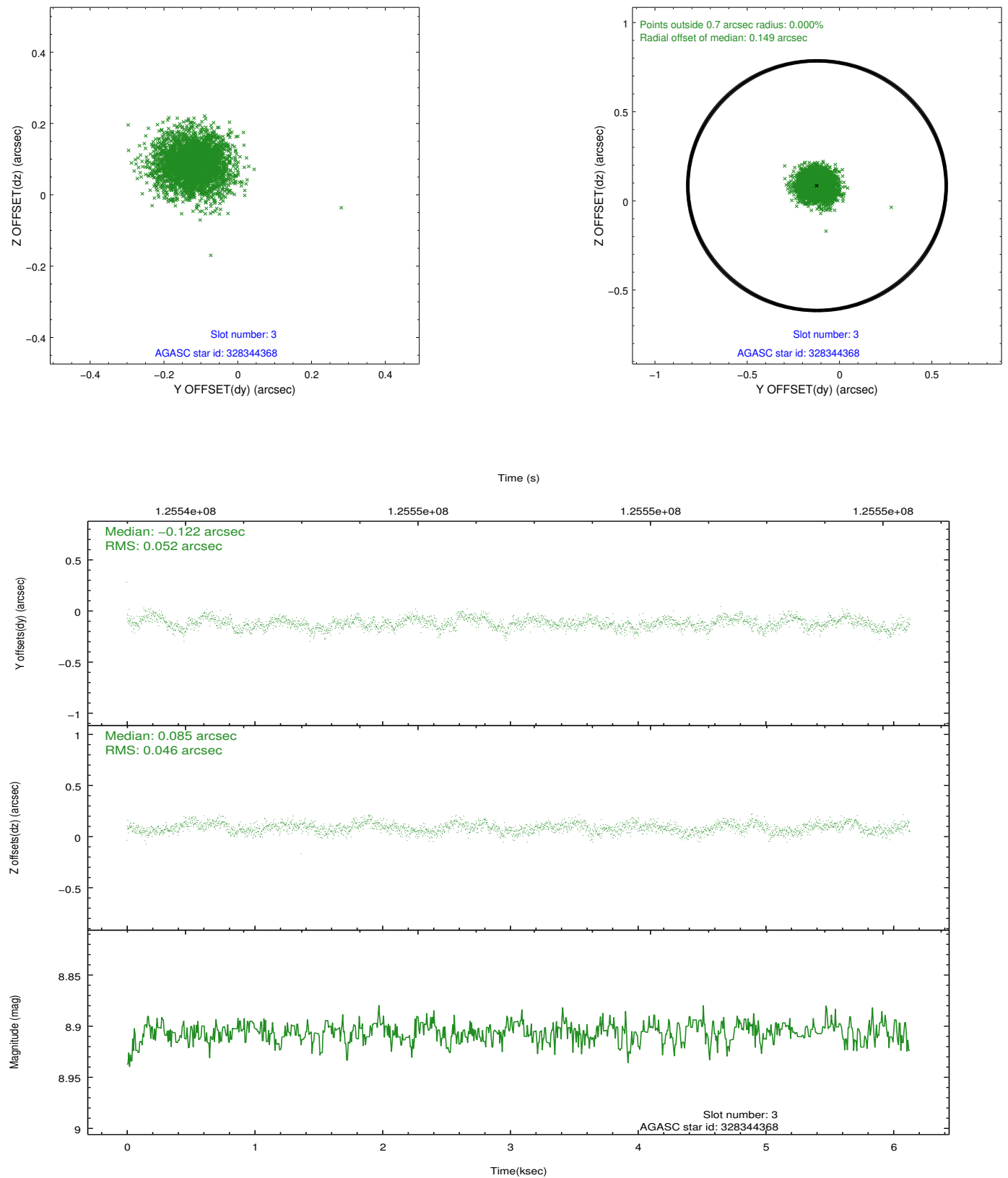


### Slot Statistics

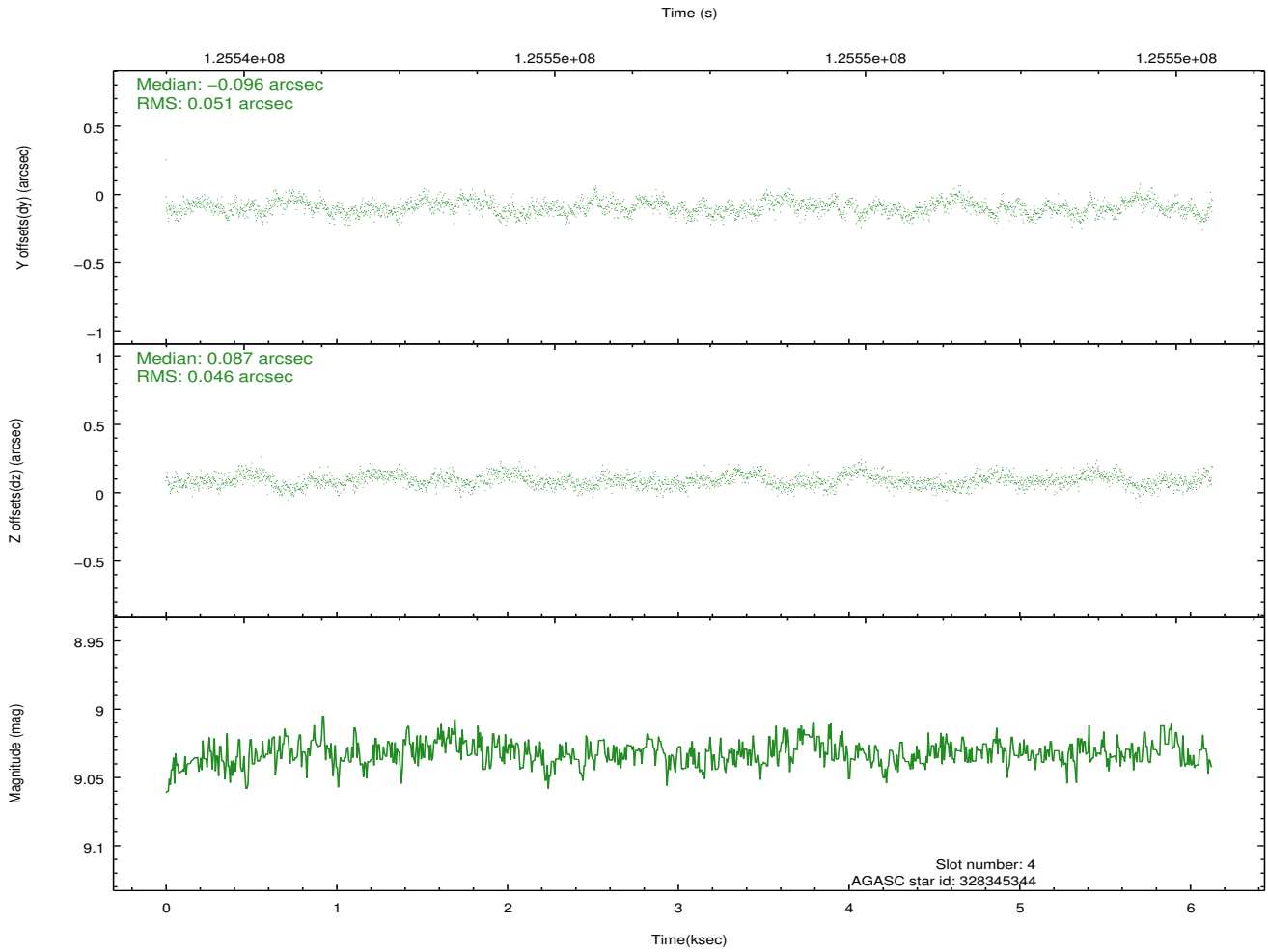
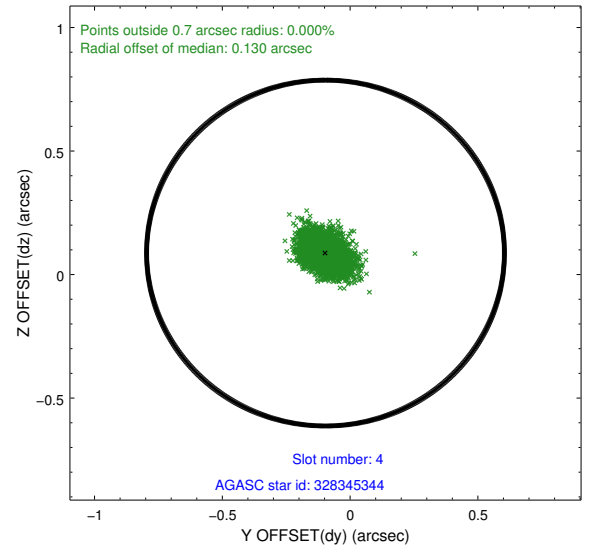
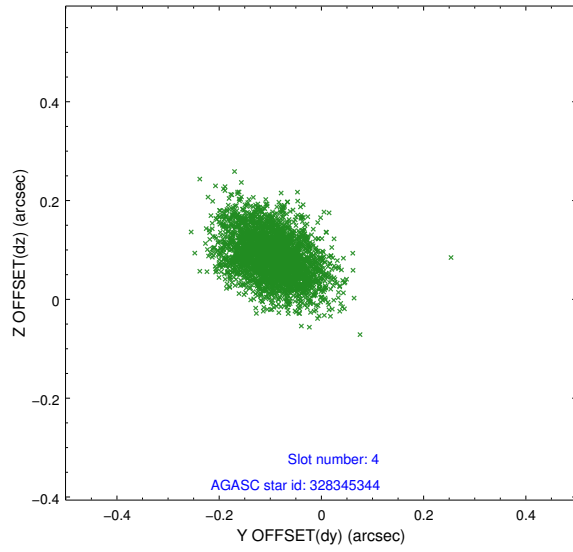
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1496	-0.001	0.007	0.007	0.011	0.000000	0.000000	-755.45	-1728.93
1	FID	ACIS-S-4	7.20	1496	-0.058	-0.001	0.005	0.009	0.000000	0.000000	2157.35	178.54
2	FID	ACIS-S-5	7.24	1496	0.028	0.003	0.007	0.012	0.000000	0.000000	-1807.01	173.33
3	GUIDE	328344368	8.91	2989	-0.122	0.085	0.073	0.119	149.773548	33.291354	675.28	-915.24
4	GUIDE	328345344	9.03	2990	-0.096	0.087	0.073	0.119	149.732704	33.386505	1006.89	-765.36
5	GUIDE	328346248	9.08	2988	-0.042	-0.067	0.071	0.119	149.076462	33.459911	1116.90	1221.05
6	GUIDE	328345960	9.51	2989	0.098	-0.266	0.101	0.164	148.640954	32.682689	-1769.22	2328.25
7	GUIDE	328346944	9.61	2990	0.158	0.161	0.081	0.131	149.688664	32.585419	-1878.85	-864.77

## 2.4 Star Slots

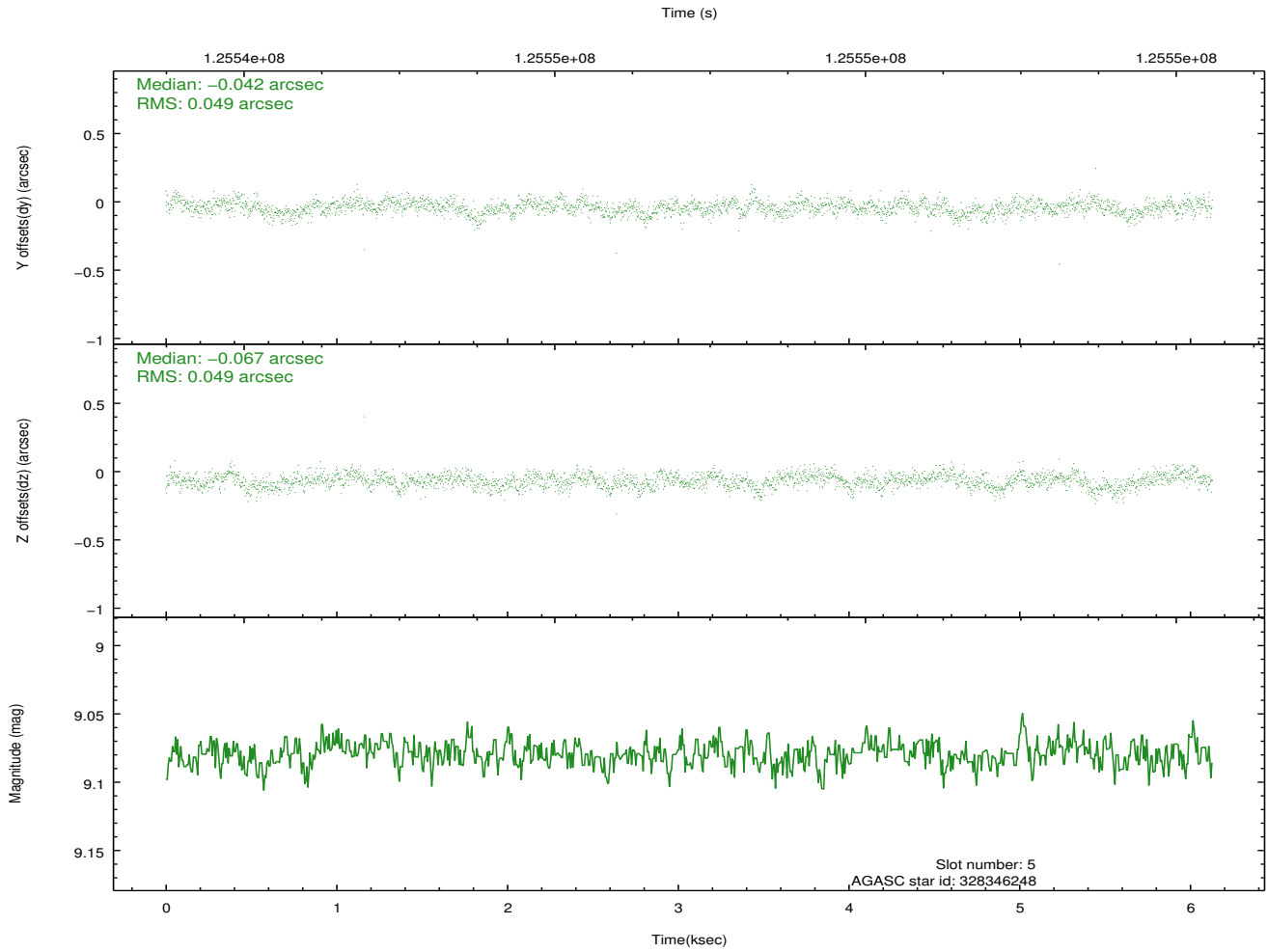
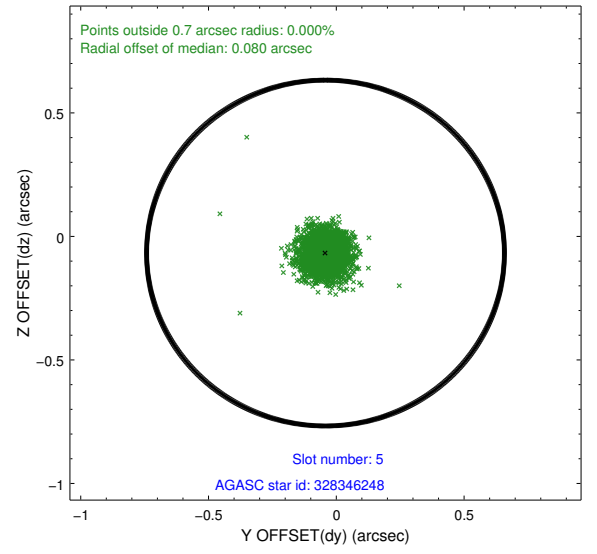
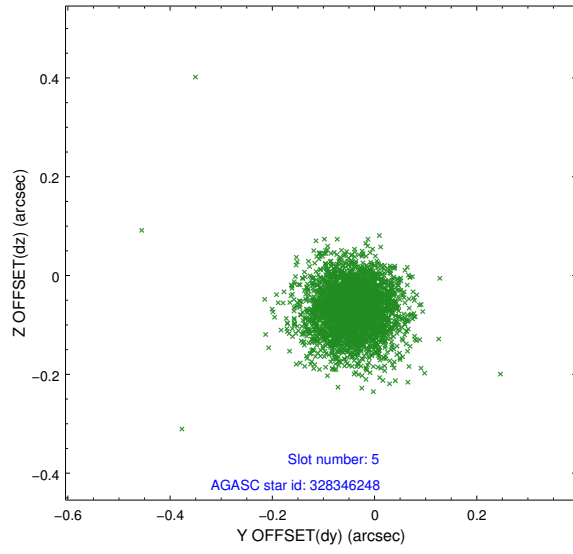
### 2.4.1 Slot 3



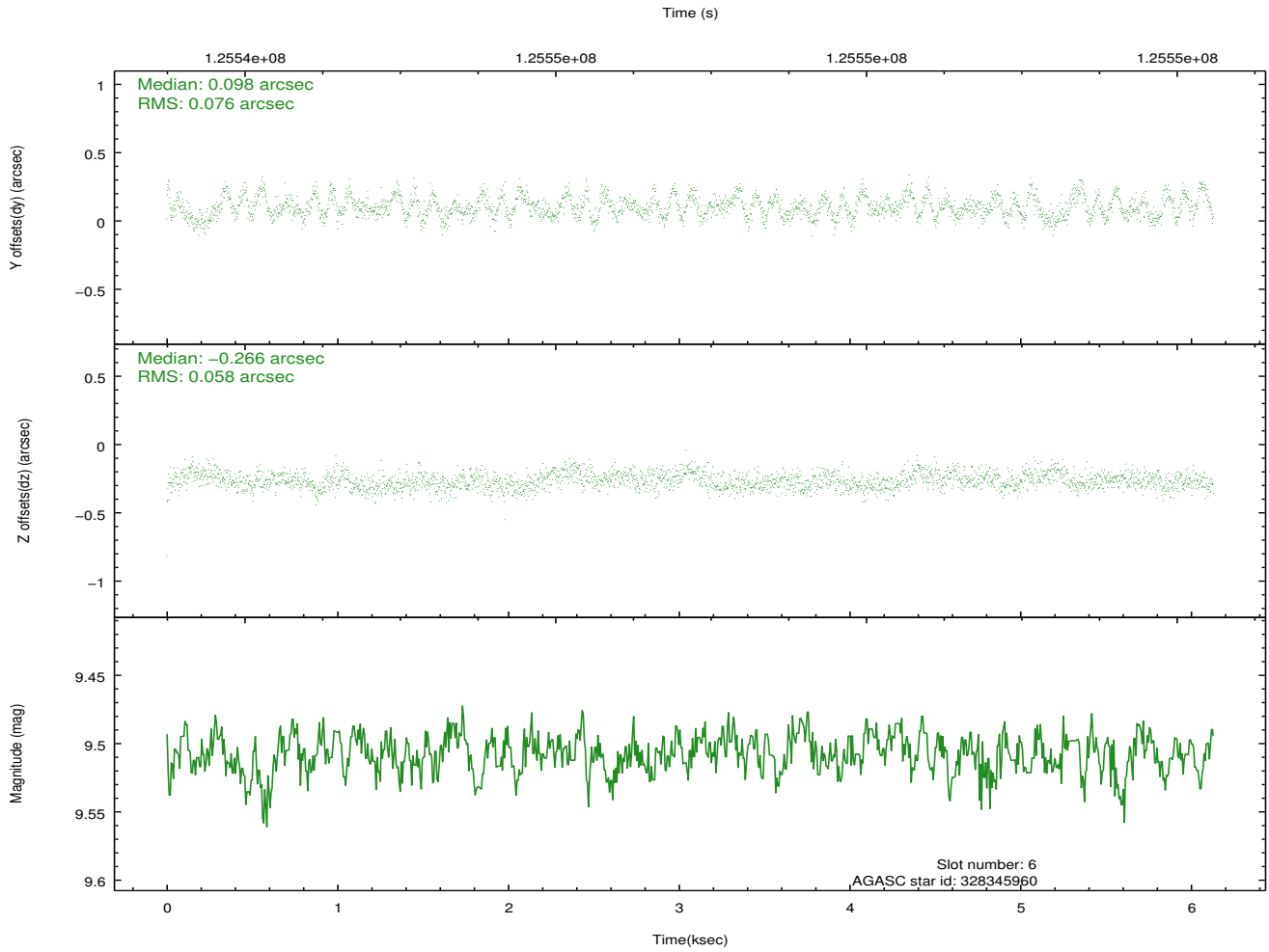
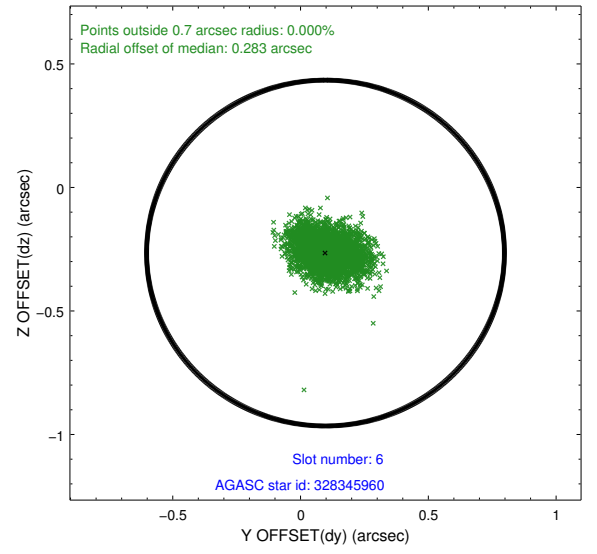
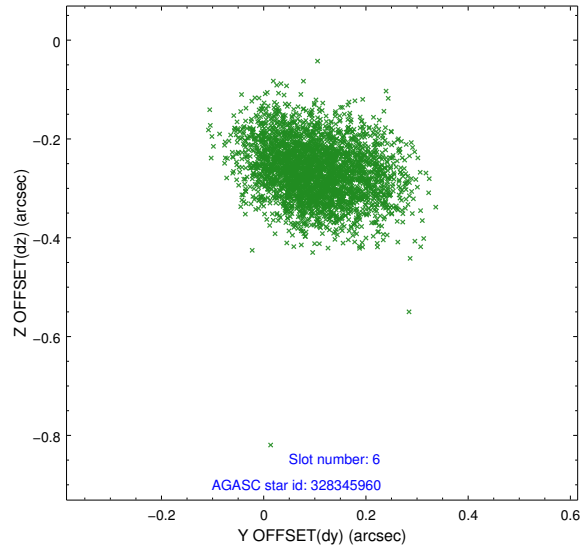
## 2.4.2 Slot 4



### 2.4.3 Slot 5

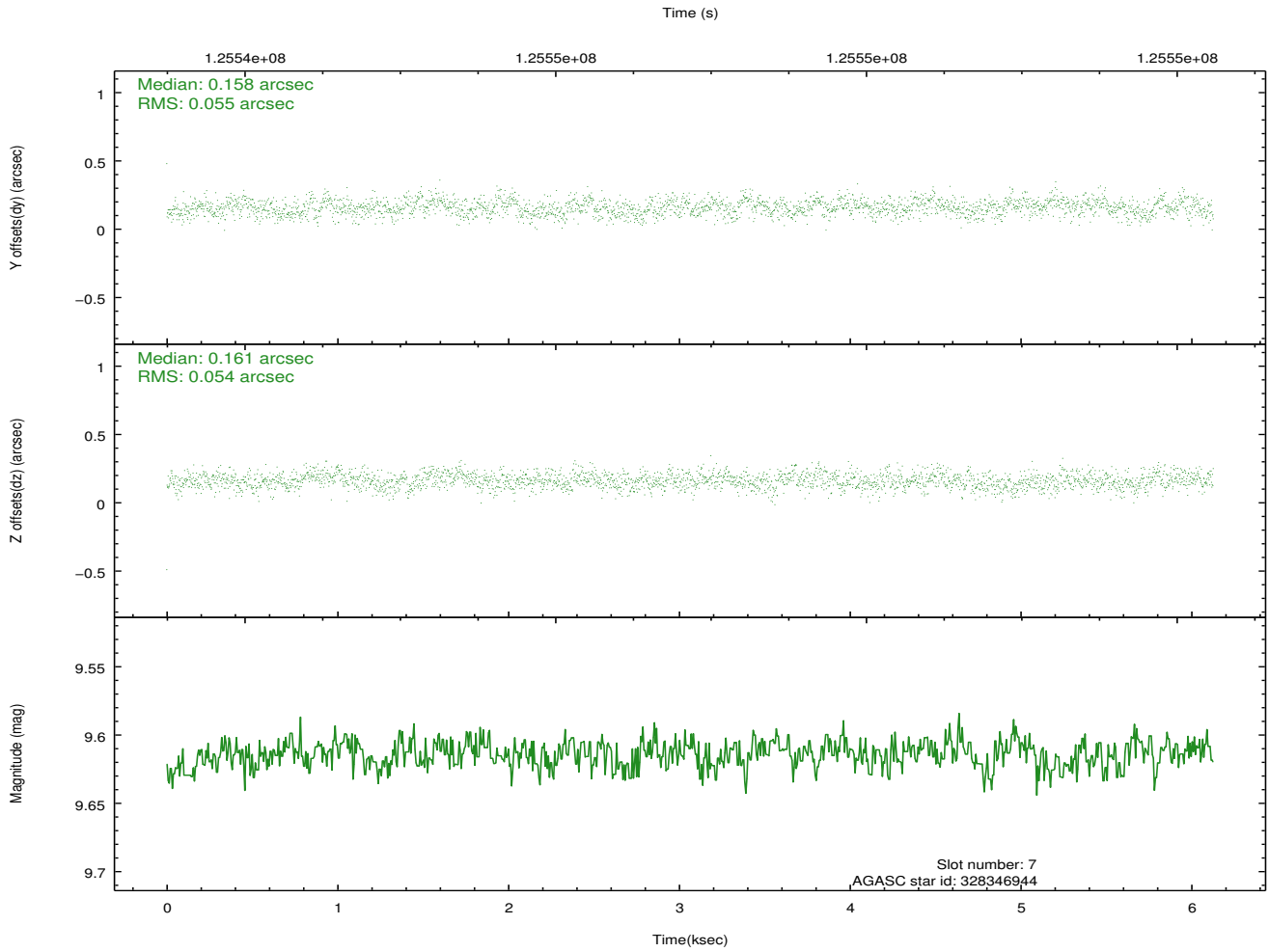
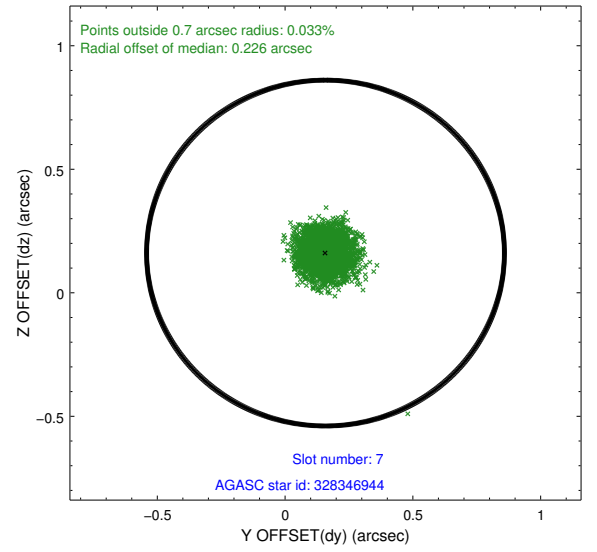
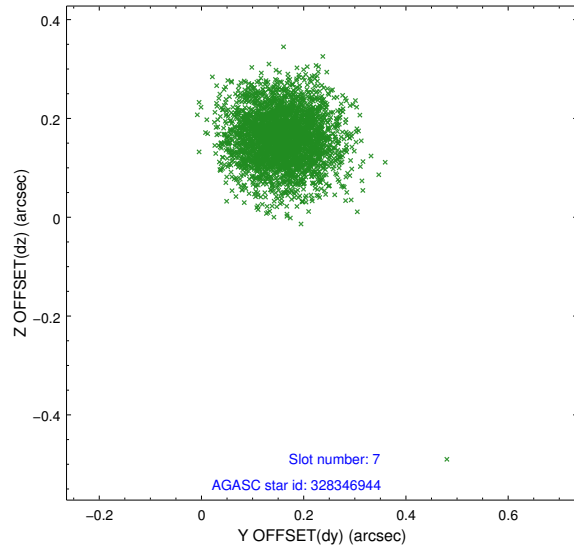


## 2.4.4 Slot 6



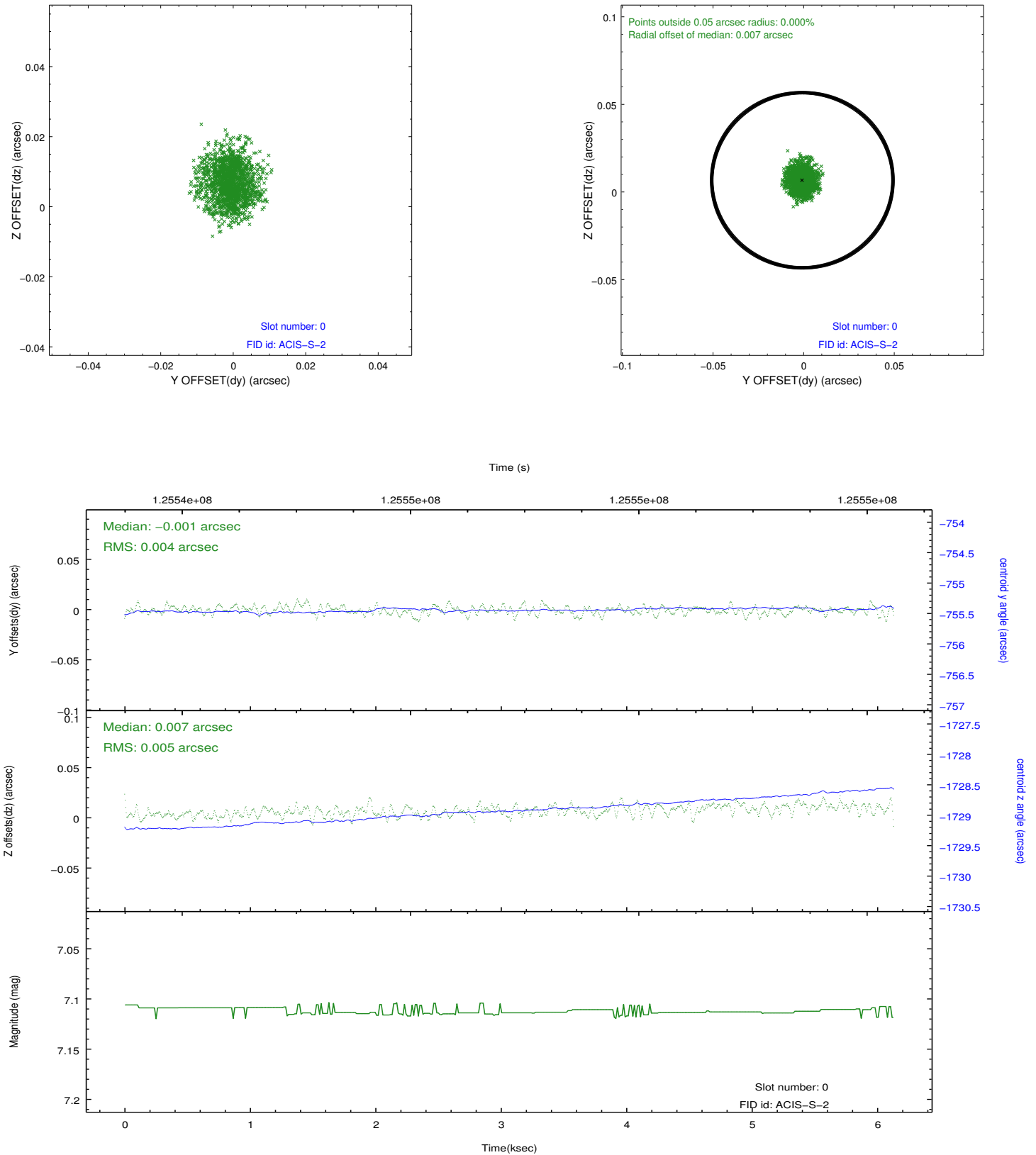


## 2.4.5 Slot 7

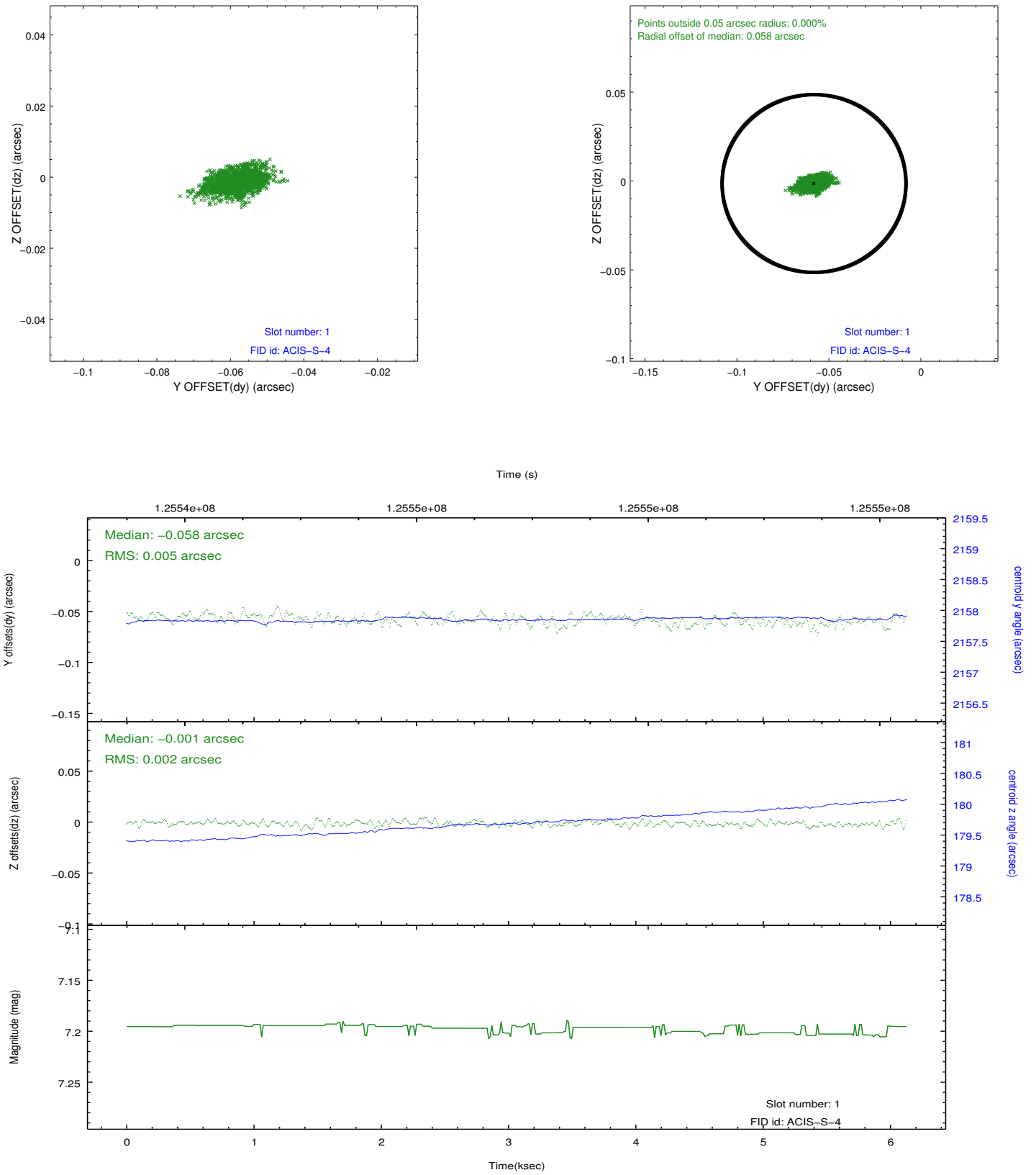


## 2.5 FID Slots

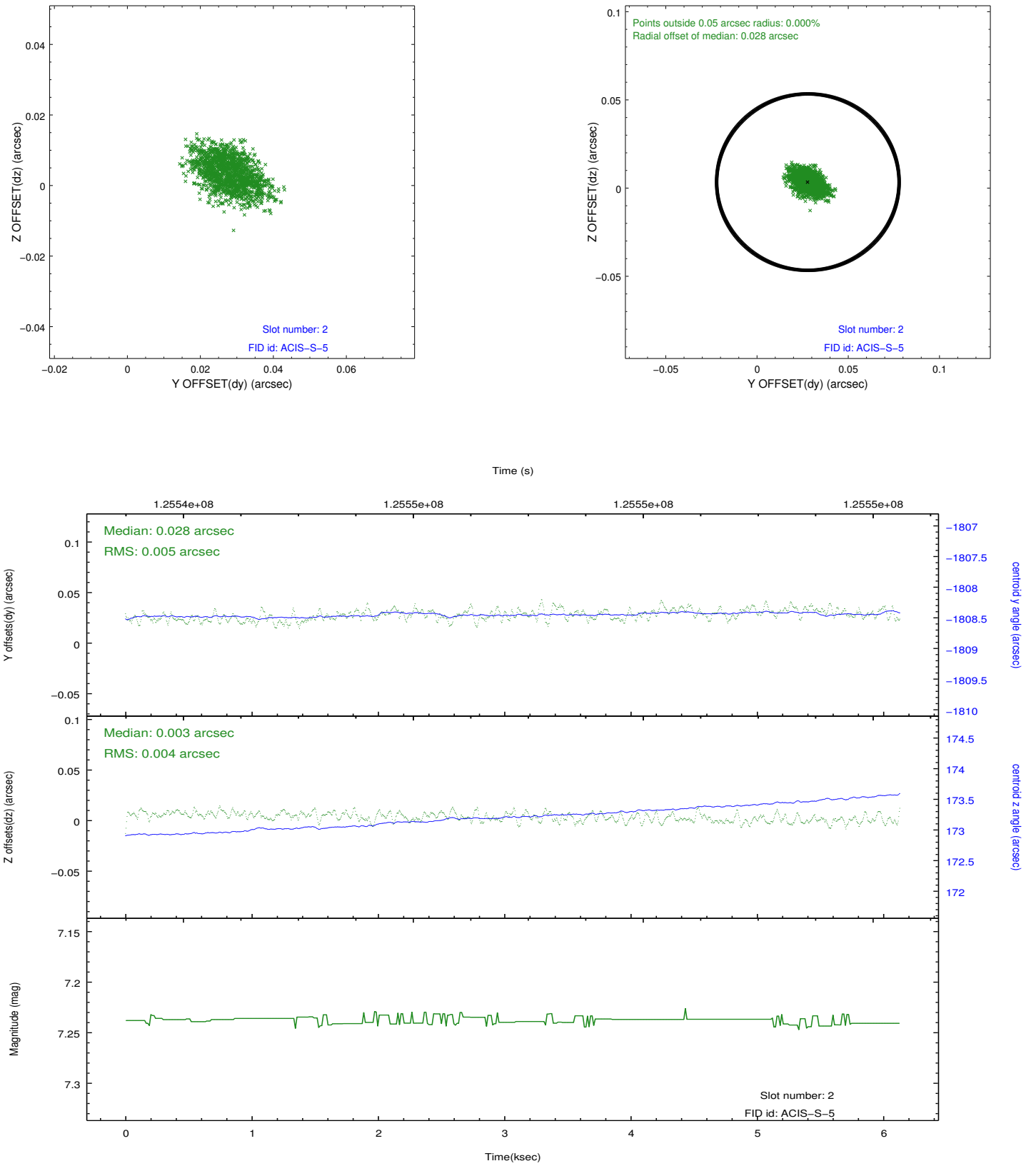
### 2.5.1 Slot 0



## 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)	2012.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.115

### A.2 Comments