

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1527 - L2 Version 3  
Chandra X-Ray Center

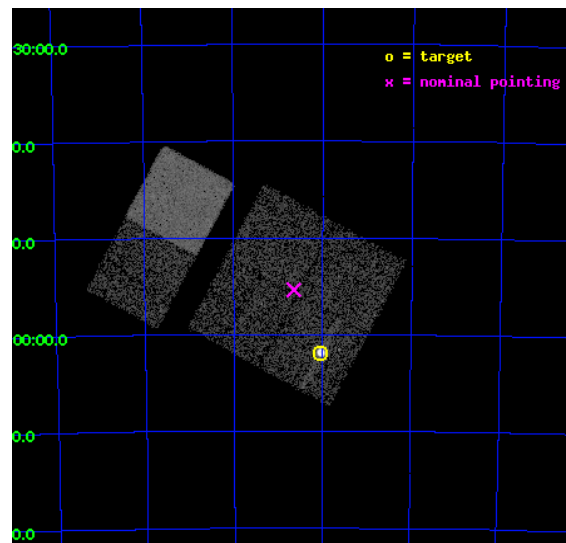
L2 Processing Date : Sep 4 2012

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# 1 Front

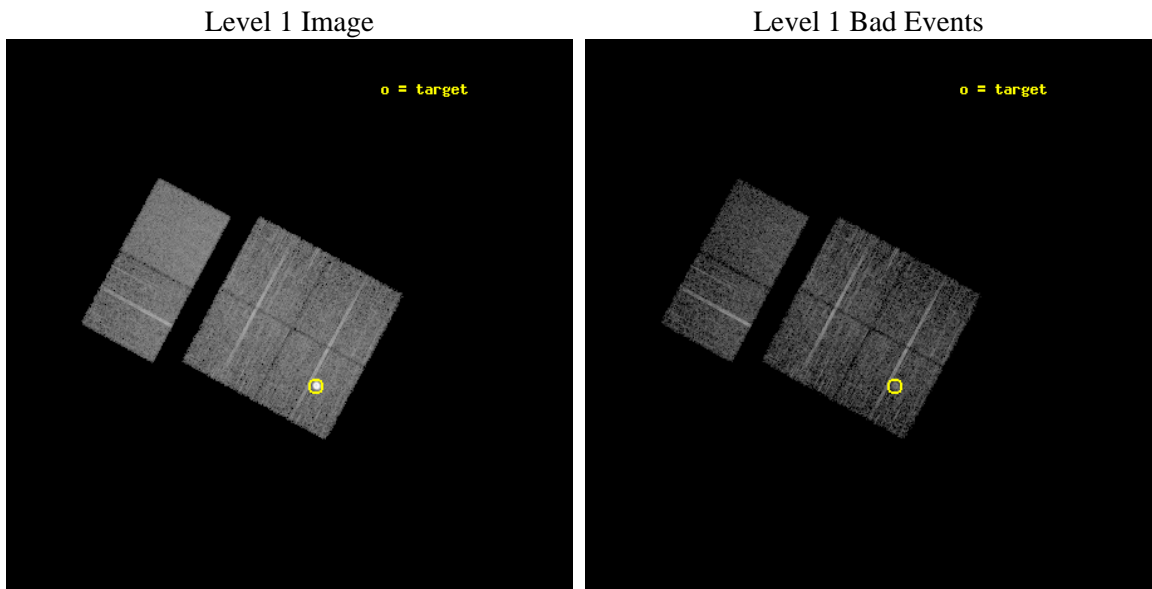
seq_num	590136	Sequence number
obs_id	1527	Observation id
title	ACIS CALIBRATION OBSERVATION OF THE SUPERNOVA REMNANT E0102-72 (DEC 2000)	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip I0, T=120, Offsets=4,-5,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.161816066376	Nominal RA [deg]
dec_nom	-71.923107794901	Nominal Dec [deg]
roll_nom	298.44895385727	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6960.0000064671	Sum of GTIs [s]
livetime	6871.8682955764	Livetime [s]
ontime0	6960.0000064671	Sum of GTIs [s]
ontime1	6960.0000064671	Sum of GTIs [s]
ontime2	6960.0000064671	Sum of GTIs [s]
ontime3	6960.0000064671	Sum of GTIs [s]
ontime6	6960.0000064671	Sum of GTIs [s]
ontime7	6960.0000064671	Sum of GTIs [s]
l2events	65419	Number of level 2 events



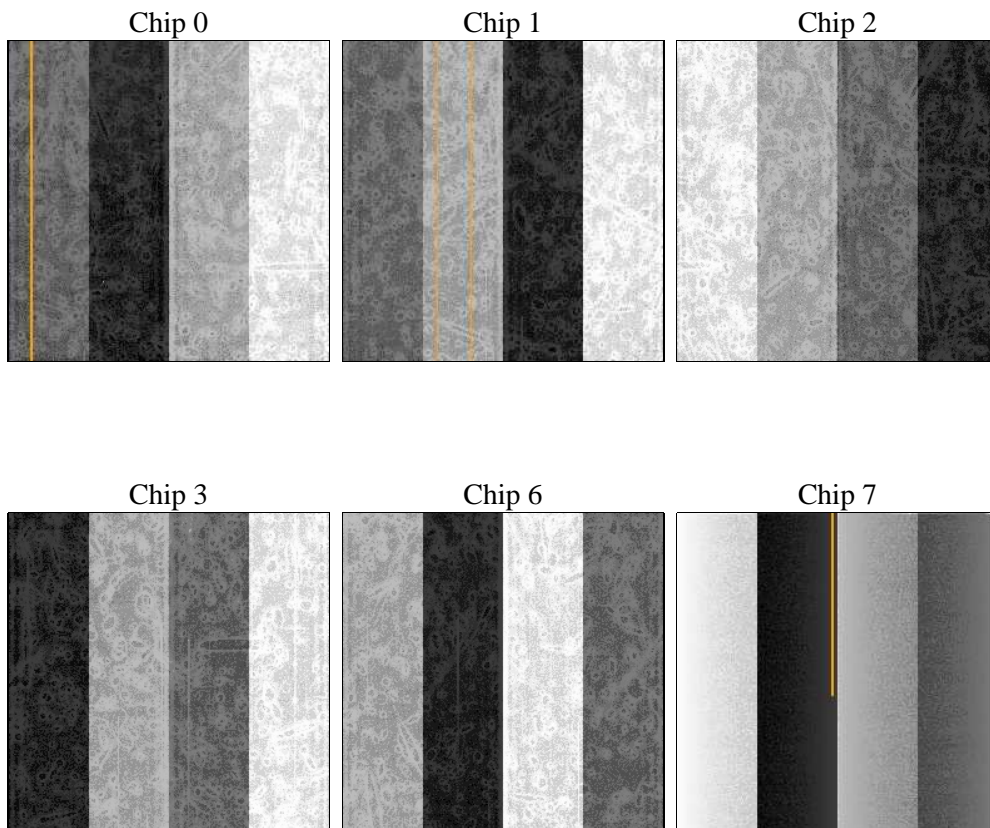
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6960.0000064671	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	6960.0000064671	Sum of GTIs [s]
date	2012-09-05T01:15:21	Date and time of file creation	ontime1	6960.0000064671	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6960.0000064671	Sum of GTIs [s]
			ontime3	6960.0000064671	Sum of GTIs [s]
			ontime6	6960.0000064671	Sum of GTIs [s]
			ontime7	6960.0000064671	Sum of GTIs [s]
			l1events	281041	Number of level 1 events

### 2.1.4 Events

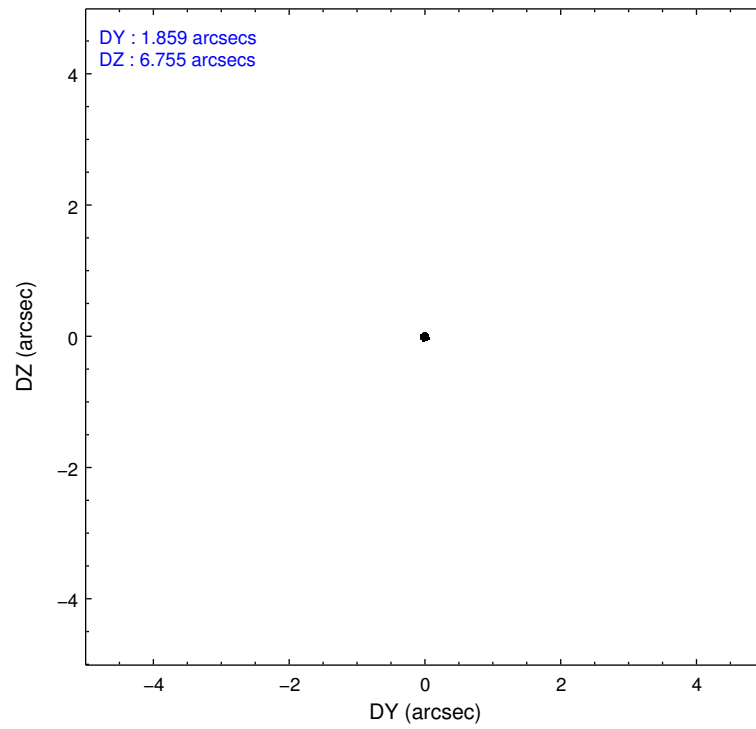
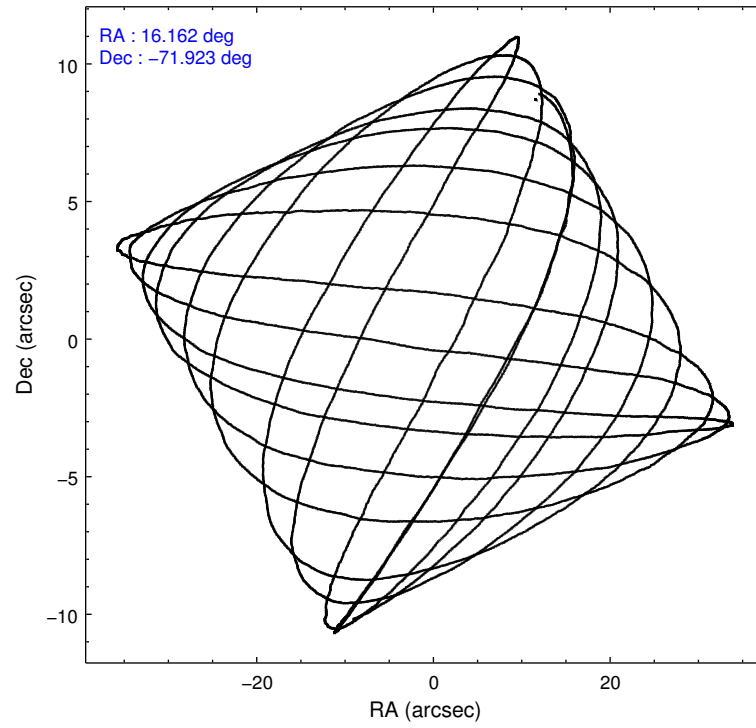
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	62587	37288	42111	43994	41844	53217	grade 0 events	22938	2171	2132	2030	2028	2061
rejected events	34430	32119	37286	39298	36875	31312		36%	5%	5%	4%	4%	3%
rejected %	55%	86%	88%	89%	88%	58%	grade 1 events	201	20	22	23	19	49
								0%	0%	0%	0%	0%	0%
							grade 2 events	2580	1061	960	852	956	4277
								4%	2%	2%	1%	2%	8%
							grade 3 events	834	499	432	482	497	2021
								1%	1%	1%	1%	1%	3%
							grade 4 events	859	497	473	461	497	1942
								1%	1%	1%	1%	1%	3%
							grade 5 events	1613	1555	1395	1528	1754	5146
								2%	4%	3%	3%	4%	9%
							grade 6 events	956	942	832	873	994	11615
								1%	2%	1%	1%	2%	21%
							grade 7 events	32606	30543	35865	37745	35099	26106
								52%	81%	85%	85%	83%	49%

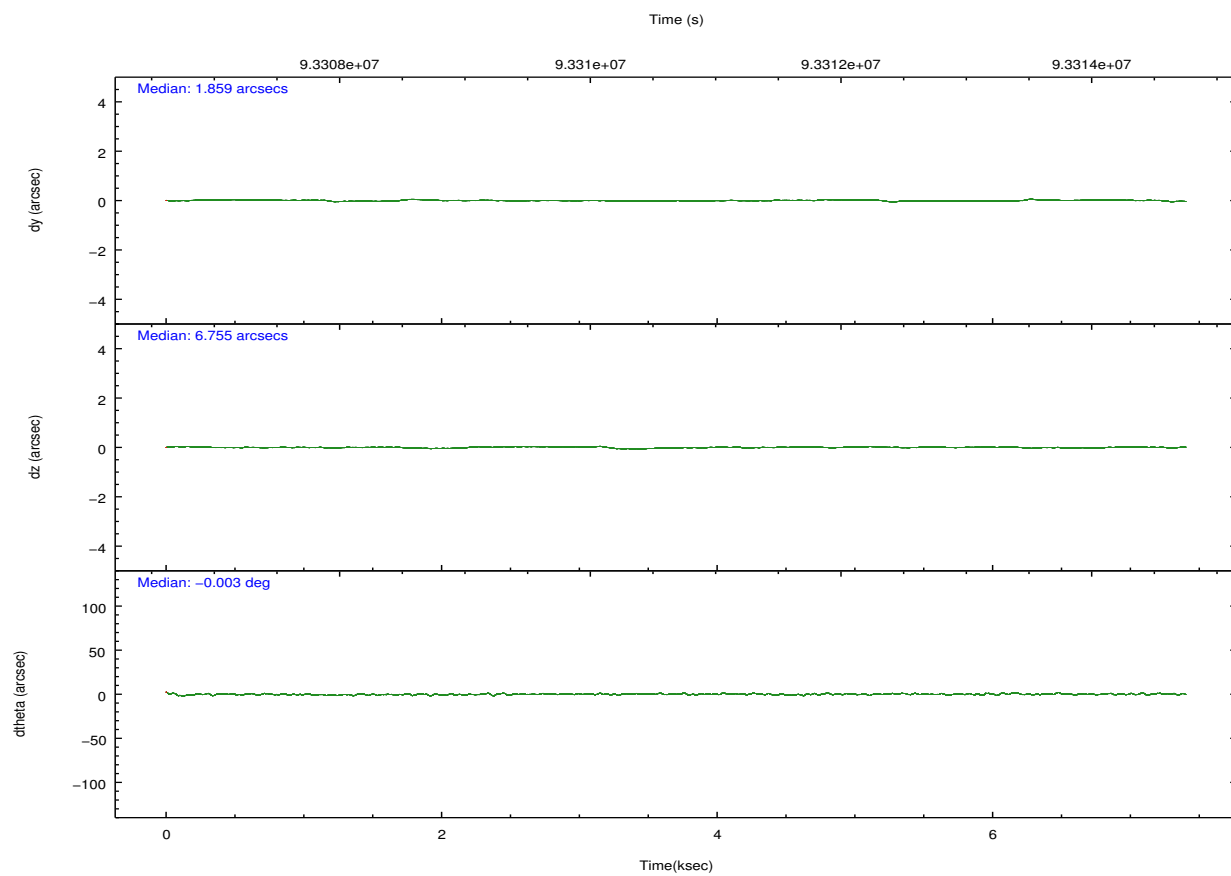
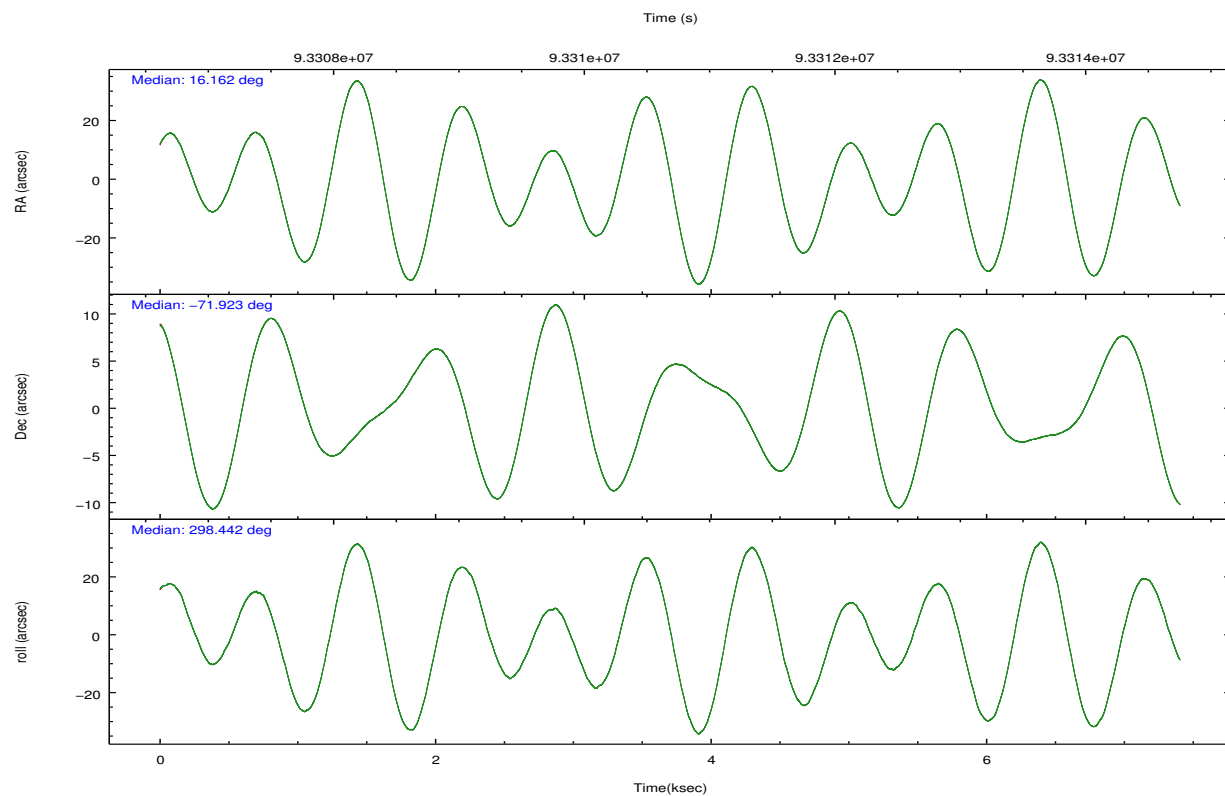


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	16.086327	16.1618160663755	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.908648	-71.92310779490082	Alternating exposures requested	N	N
[deg] Pointing Roll	298.168512	298.4489538572684	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	92016064.184000	92016064.184000			
[s] Window stop time (MET)	94608064.184000	94608064.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	93307187.184000	93306811.535669			
Observation start date	2000-12-15T22:38:43	2000-12-15T22:33:31			
[s] Observation end time (MET)	93314387.184000	93314521.58596399			
Observation end date	2000-12-16T00:38:43	2000-12-16T00:42:01			
Read mode	TIMED	TIMED			

## 2.3 Aspect



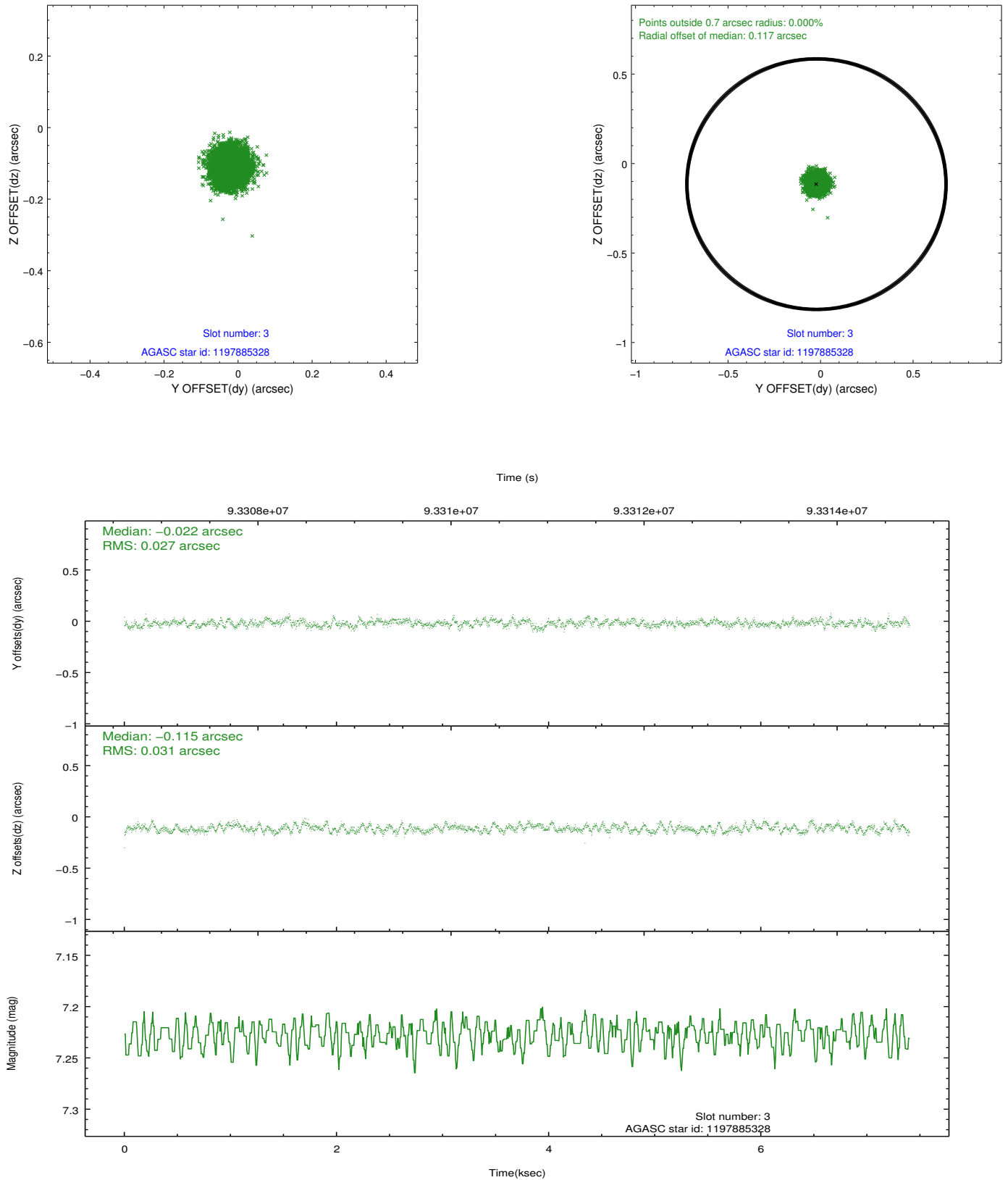


### Slot Statistics

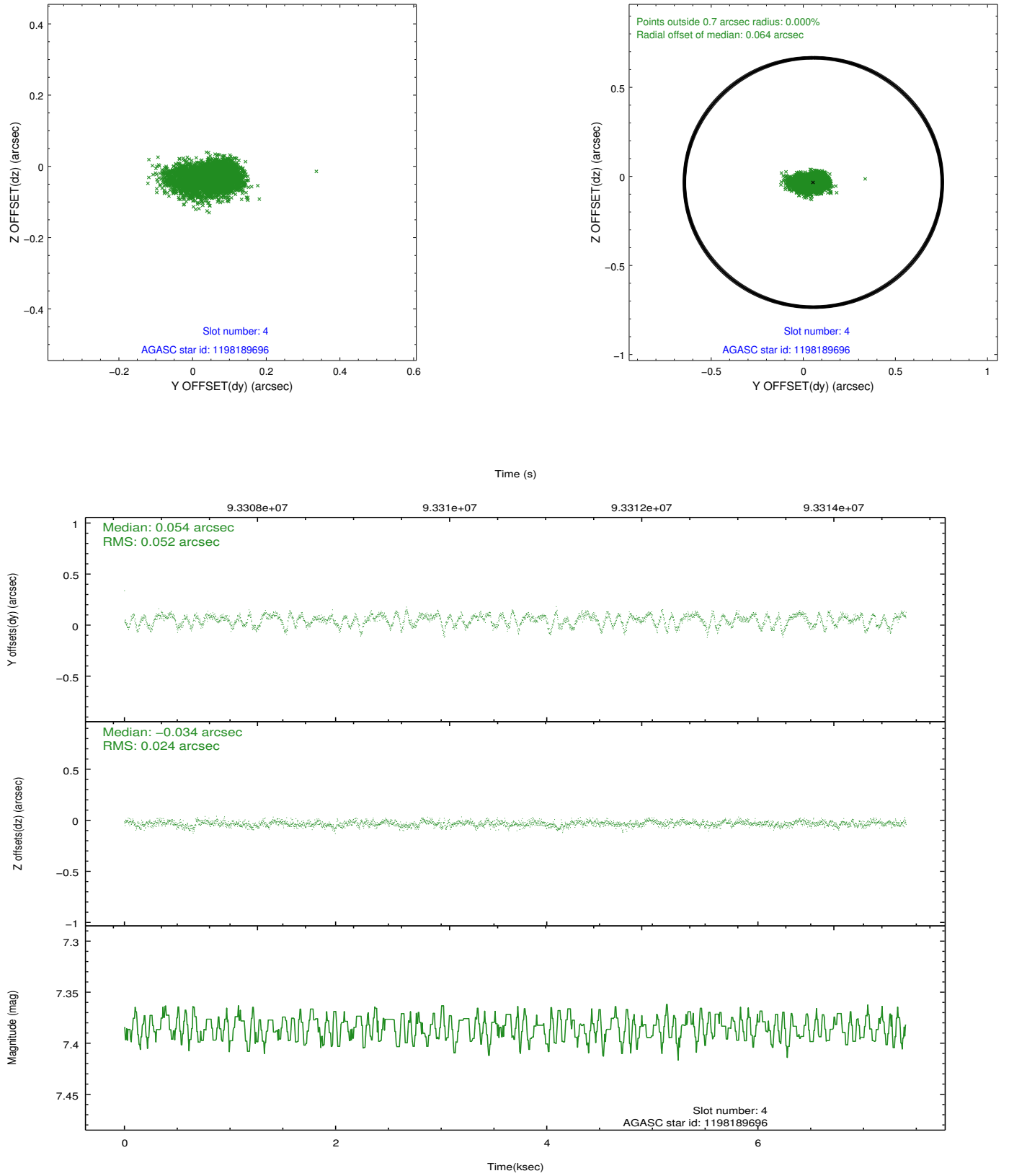
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.16	1805	-0.039	-0.072	0.009	0.015	0.000000	0.000000	-756.24	-836.58
1	FID	ACIS-I-4	7.18	1802	-0.029	0.049	0.006	0.010	0.000000	0.000000	2157.47	1069.34
2	FID	ACIS-I-5	7.23	1805	-0.032	0.091	0.009	0.014	0.000000	0.000000	-1809.08	1068.09
3	GUIDE	1197885328	7.23	3610	-0.022	-0.115	0.045	0.069	16.283090	-71.733943	-449.80	492.08
4	GUIDE	1198189696	7.39	3611	0.054	-0.034	0.059	0.106	15.223750	-72.697522	2073.32	-2157.96
5	GUIDE	1197750936	7.56	3611	-0.091	0.105	0.049	0.078	15.387940	-71.549550	-1511.07	-94.36
6	GUIDE	1197884536	8.49	3611	-0.014	0.044	0.061	0.096	17.160729	-71.835289	344.87	1182.28
7	GUIDE	1197884712	8.30	3610	0.080	0.001	0.055	0.088	16.087398	-72.252690	1092.27	-583.50

## 2.4 Star Slots

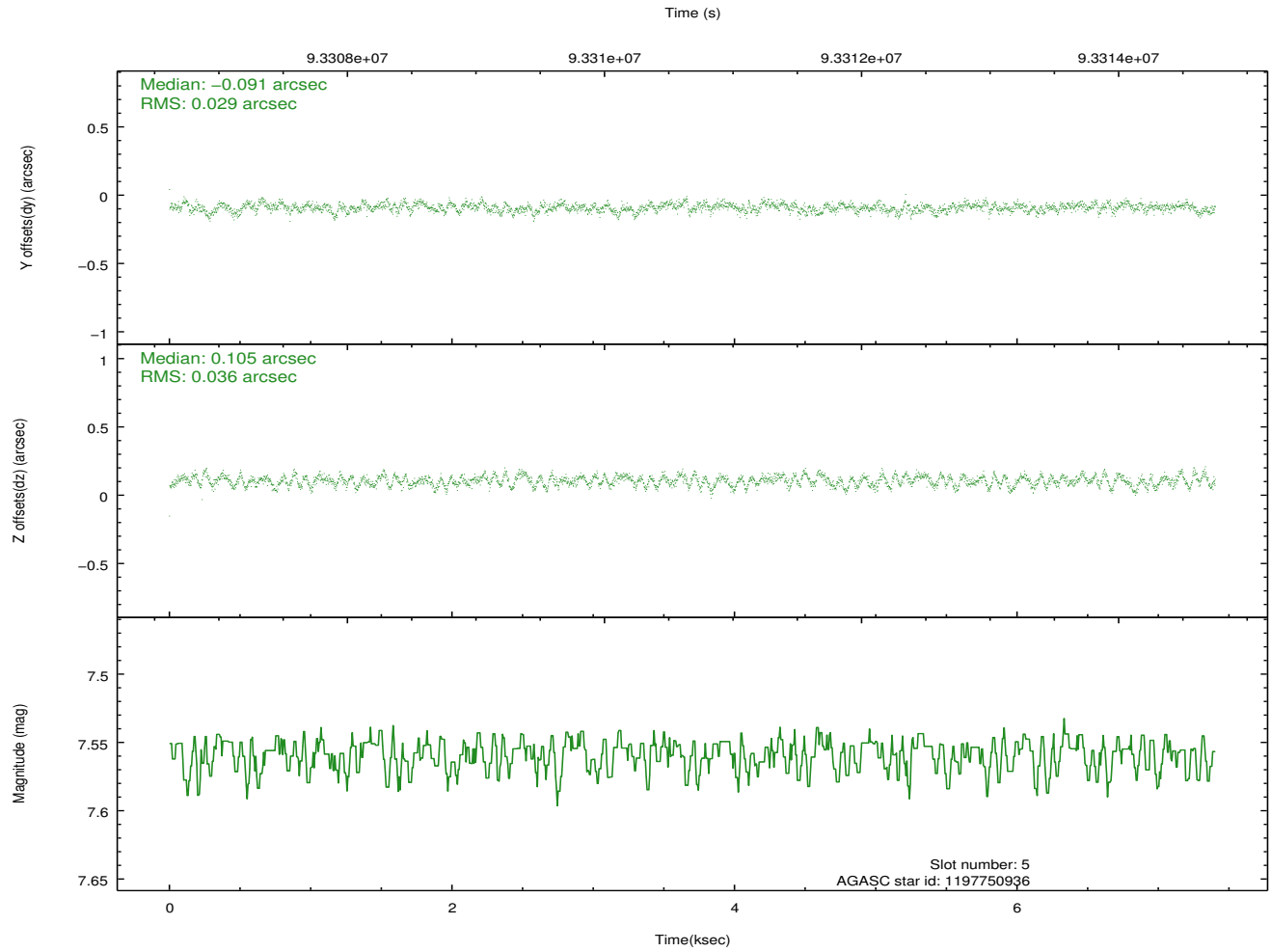
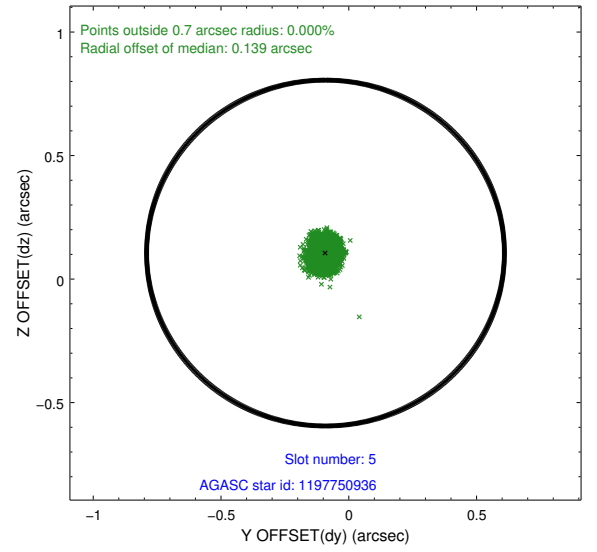
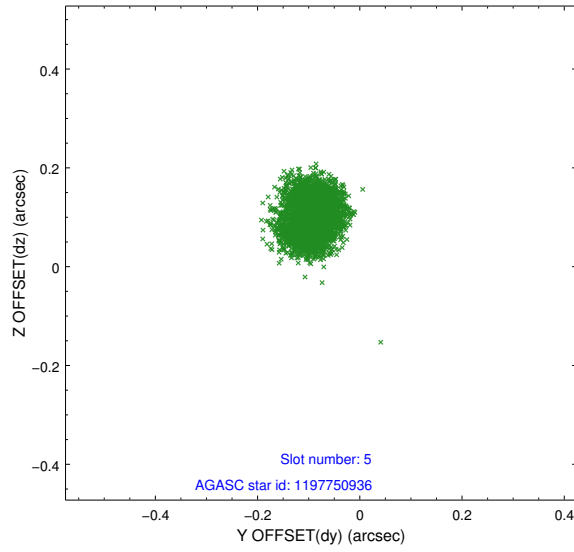
### 2.4.1 Slot 3



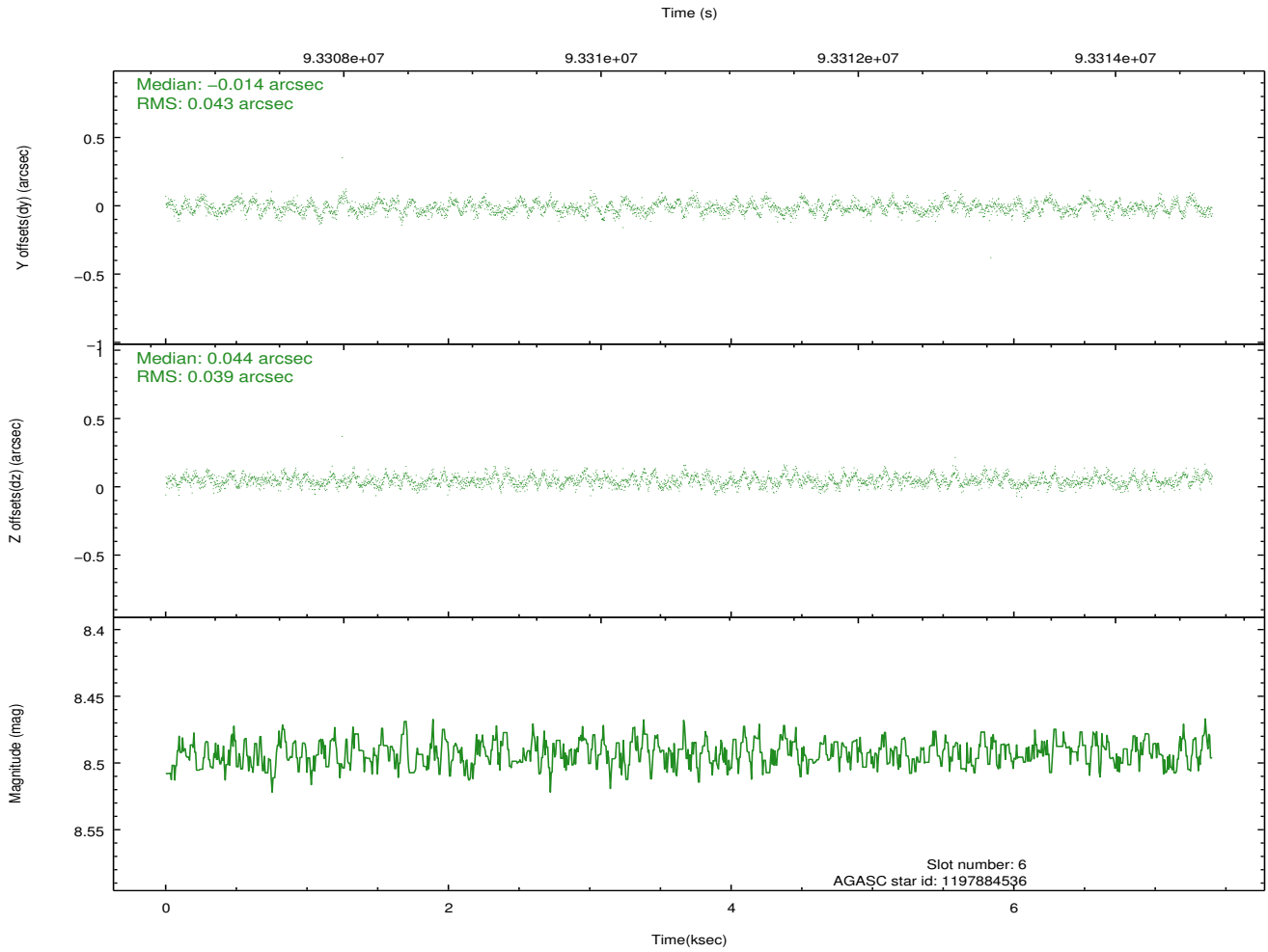
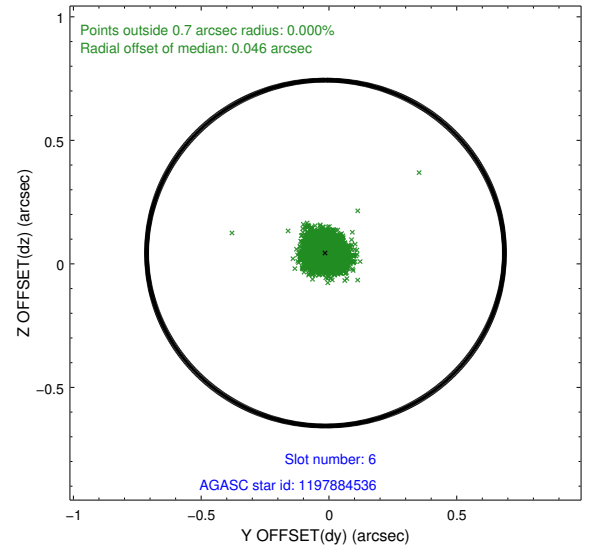
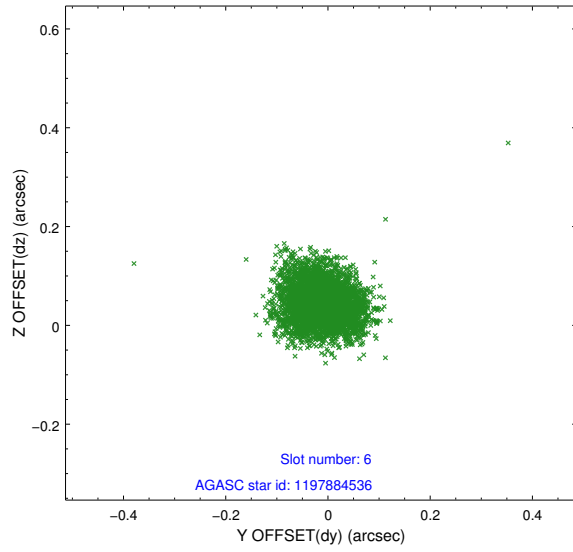
## 2.4.2 Slot 4



### 2.4.3 Slot 5

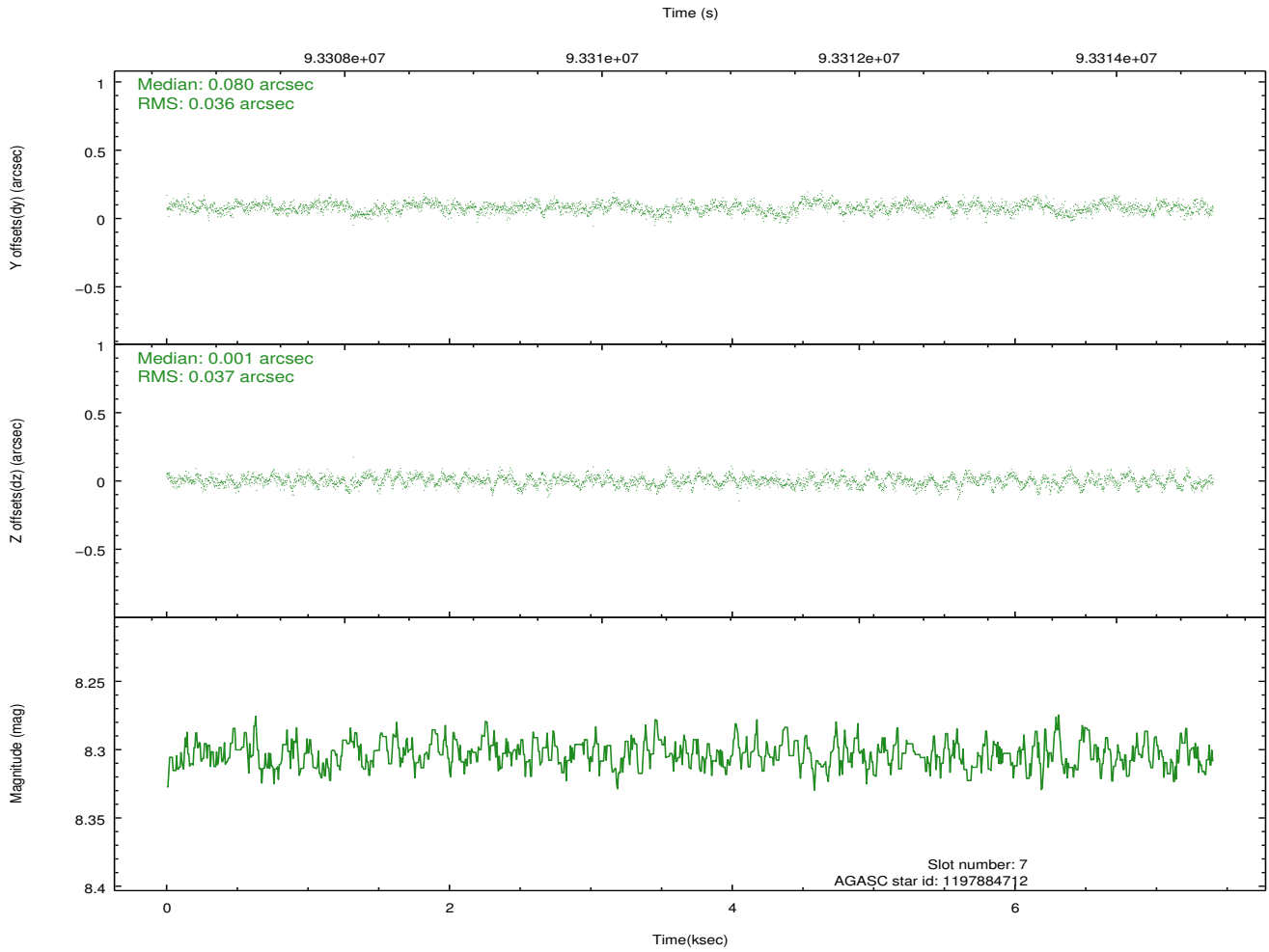
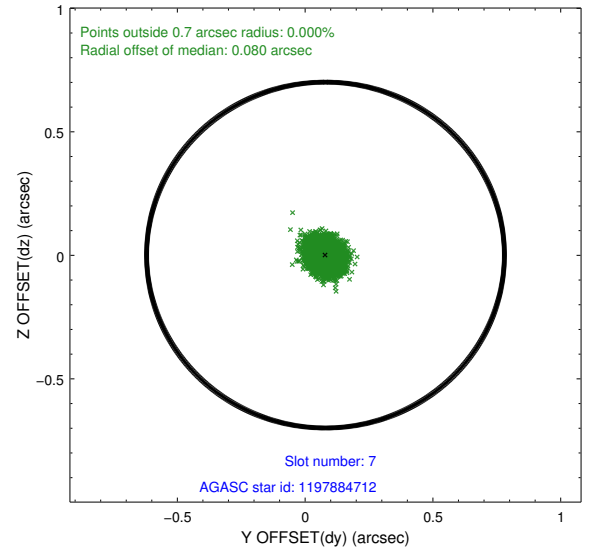
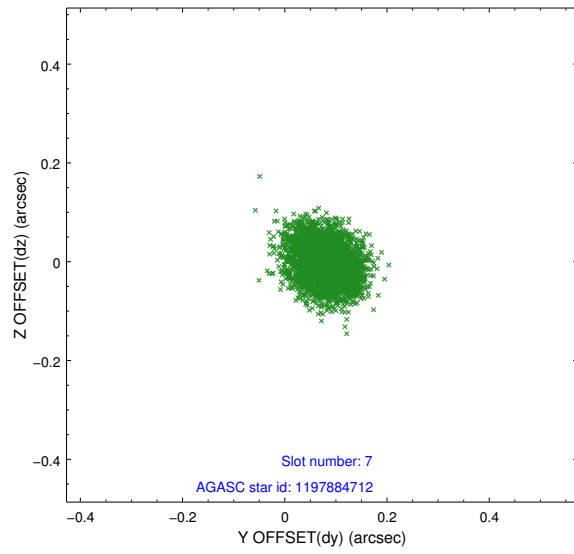


## 2.4.4 Slot 6



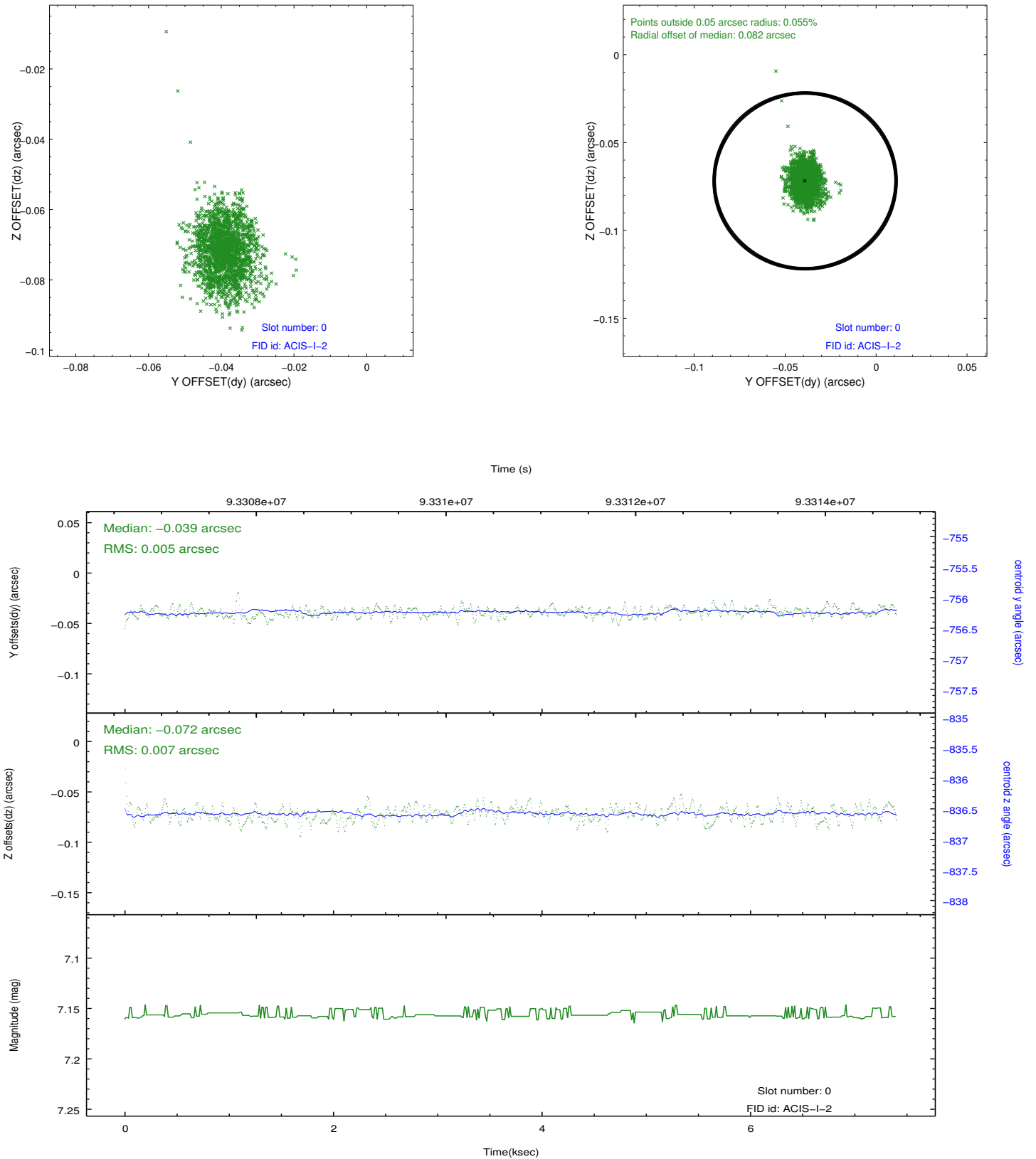


## 2.4.5 Slot 7

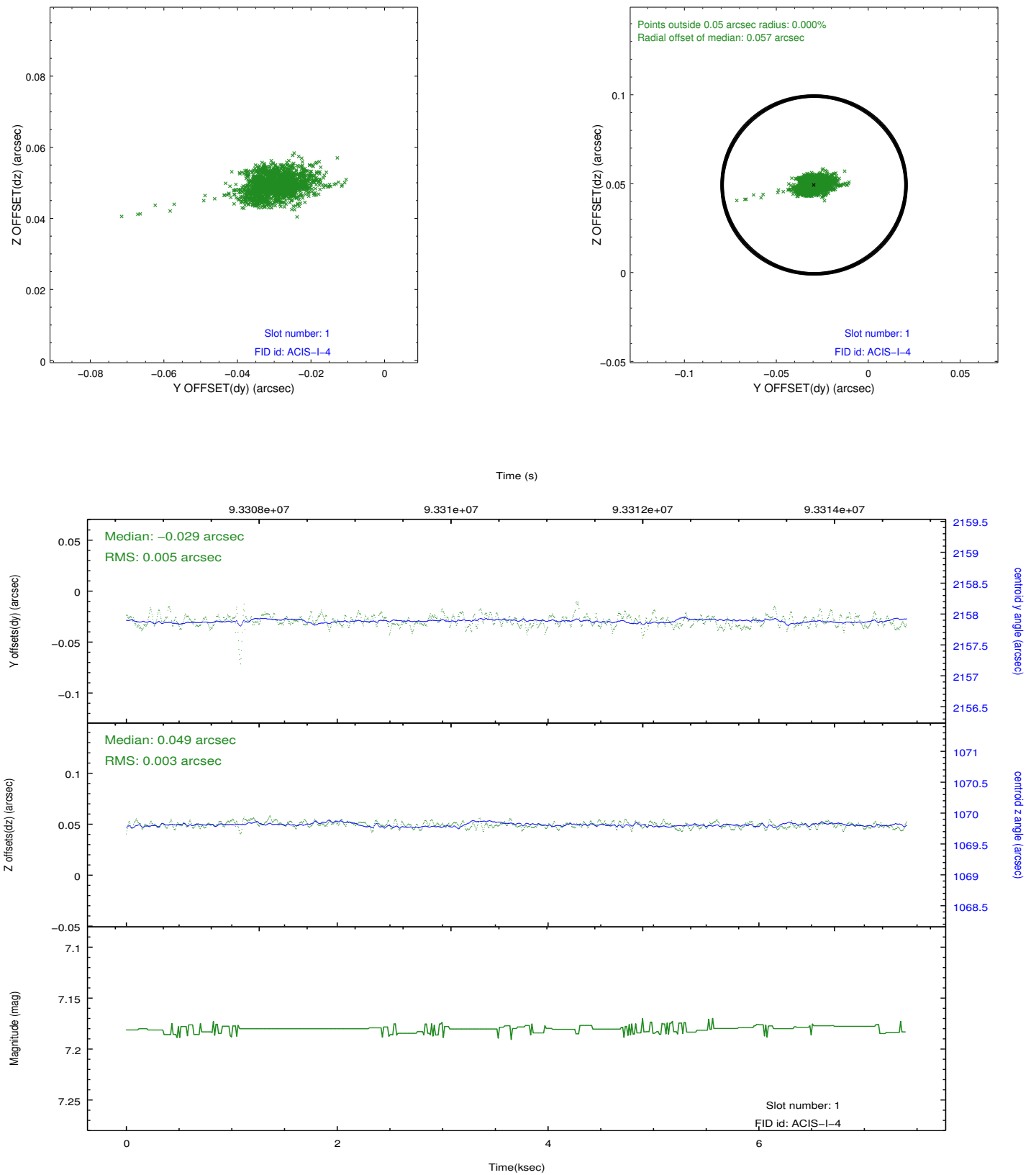


## 2.5 FID Slots

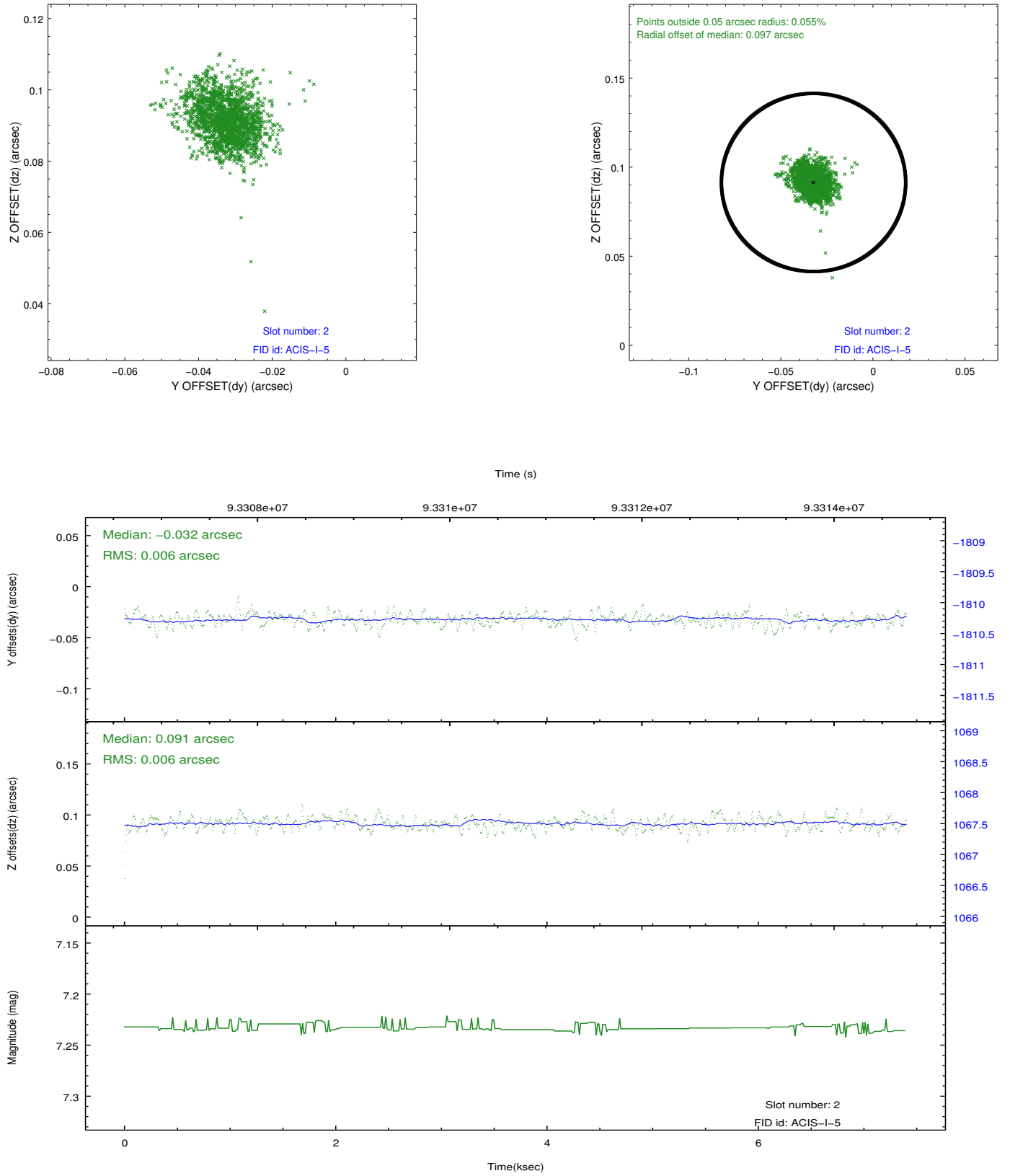
### 2.5.1 Slot 0



## 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)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.963

### A.2 Comments

Window constraint met.