

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4247 - L2 Version 3  
Chandra X-Ray Center

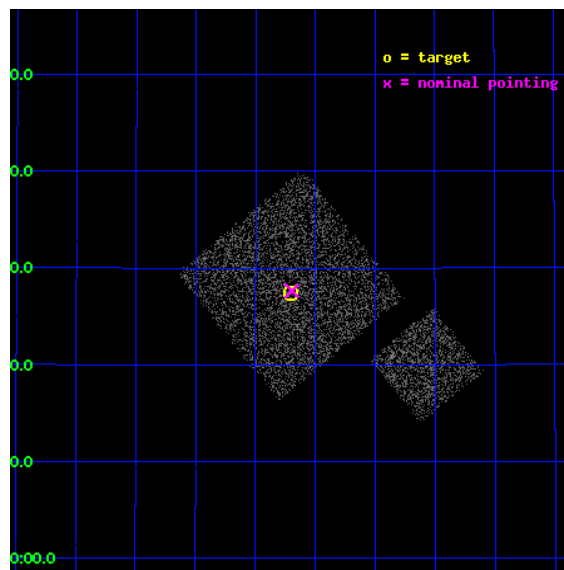
L2 Processing Date : Oct 25 2012

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# 1 Front

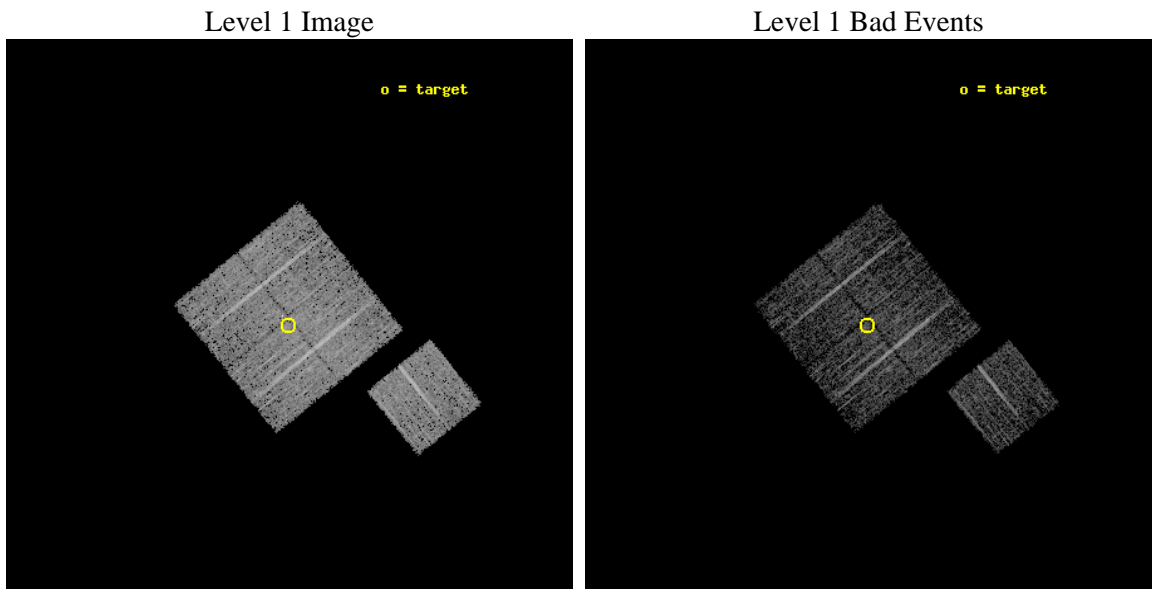
seq_num	900290	Sequence number
obs_id	4247	Observation id
title	A CHANDRA WIDE-FIELD SURVEY TO MAP THE COSMIC WEB AND INVESTIGATE THE EVOLUTION OF NUCLEAR ACCRETION	Proposal title
observer	Dr. Christine Jones	Principal investigator
object	SD50	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.676831	Observer's specified target RA [deg]
dec_targ	33.456918	Observer's specified target Dec [deg]
ra_nom	218.67407673835	Nominal RA [deg]
dec_nom	33.460965068081	Nominal Dec [deg]
roll_nom	141.01019326646	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4773.6473614573	Sum of GTIs [s]
livetime	4711.2761443718	Livetime [s]
ontime0	4776.6652415991	Sum of GTIs [s]
ontime1	4776.7062816024	Sum of GTIs [s]
ontime2	4776.7473016679	Sum of GTIs [s]
ontime3	4773.6473614573	Sum of GTIs [s]
ontime6	4776.624181658	Sum of GTIs [s]
l2events	9973	Number of level 2 events



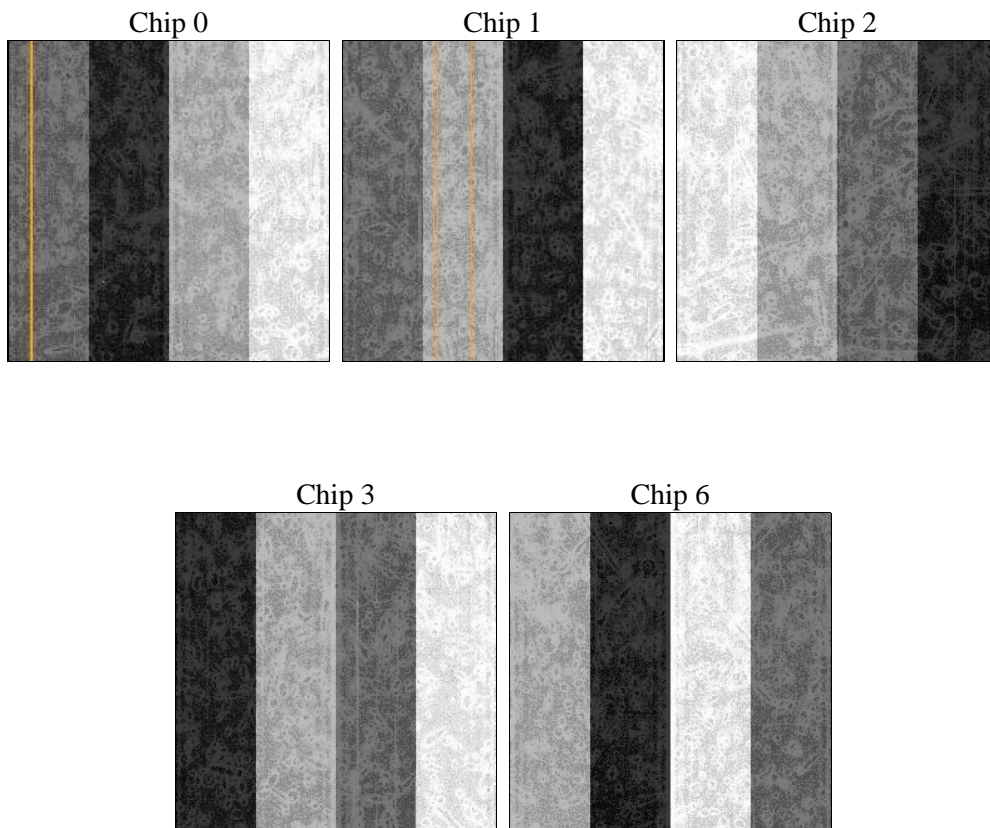
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4773.6473614573	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	4776.6652415991	Sum of GTIs [s]
date	2012-10-25T23:39:19	Date and time of file creation	ontime1	4776.7062816024	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4776.7473016679	Sum of GTIs [s]
			ontime3	4773.6473614573	Sum of GTIs [s]
			ontime6	4776.624181658	Sum of GTIs [s]
			l1events	120494	Number of level 1 events

### 2.1.4 Events

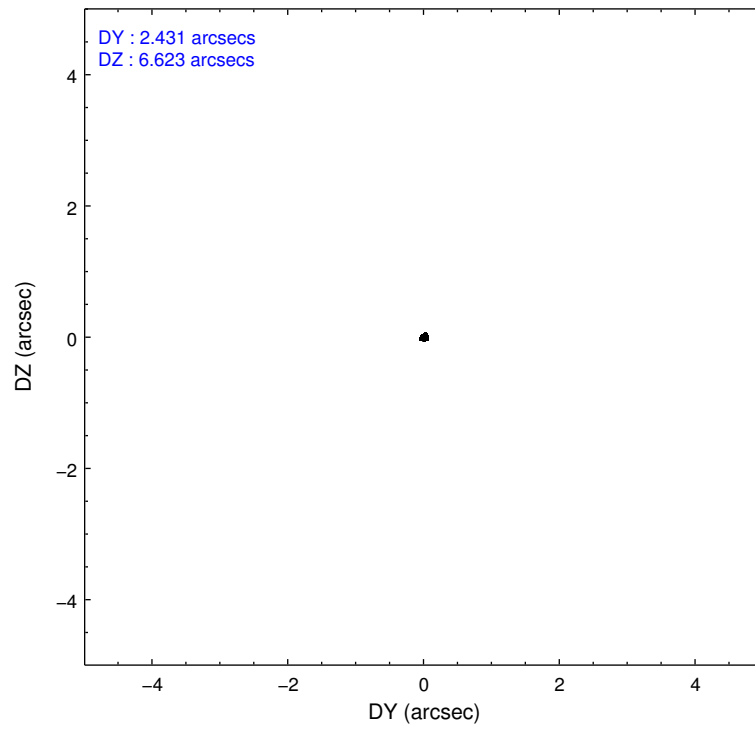
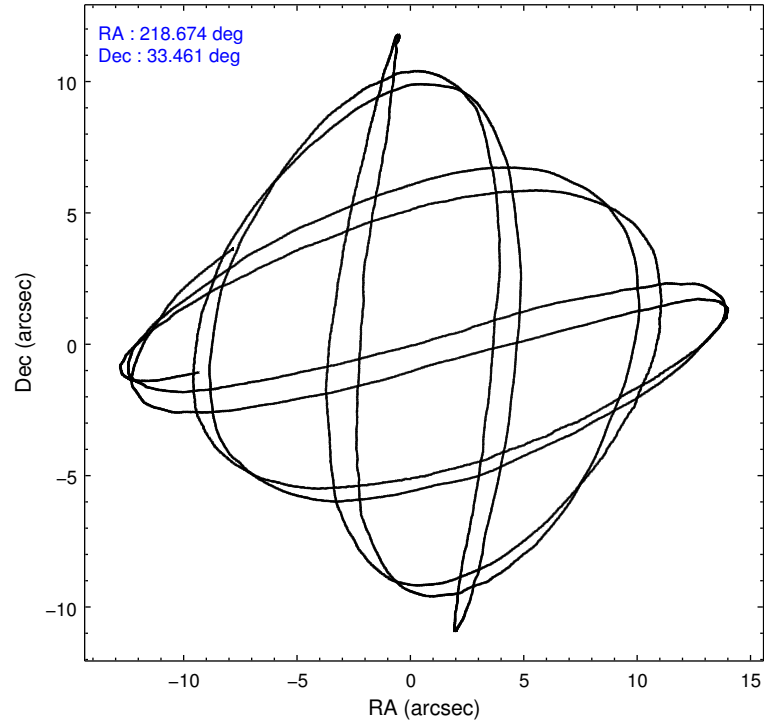
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	23014	22511	26310	24532	24127
rejected events	20657	19678	23816	22362	21755
rejected %	89%	87%	90%	91%	90%

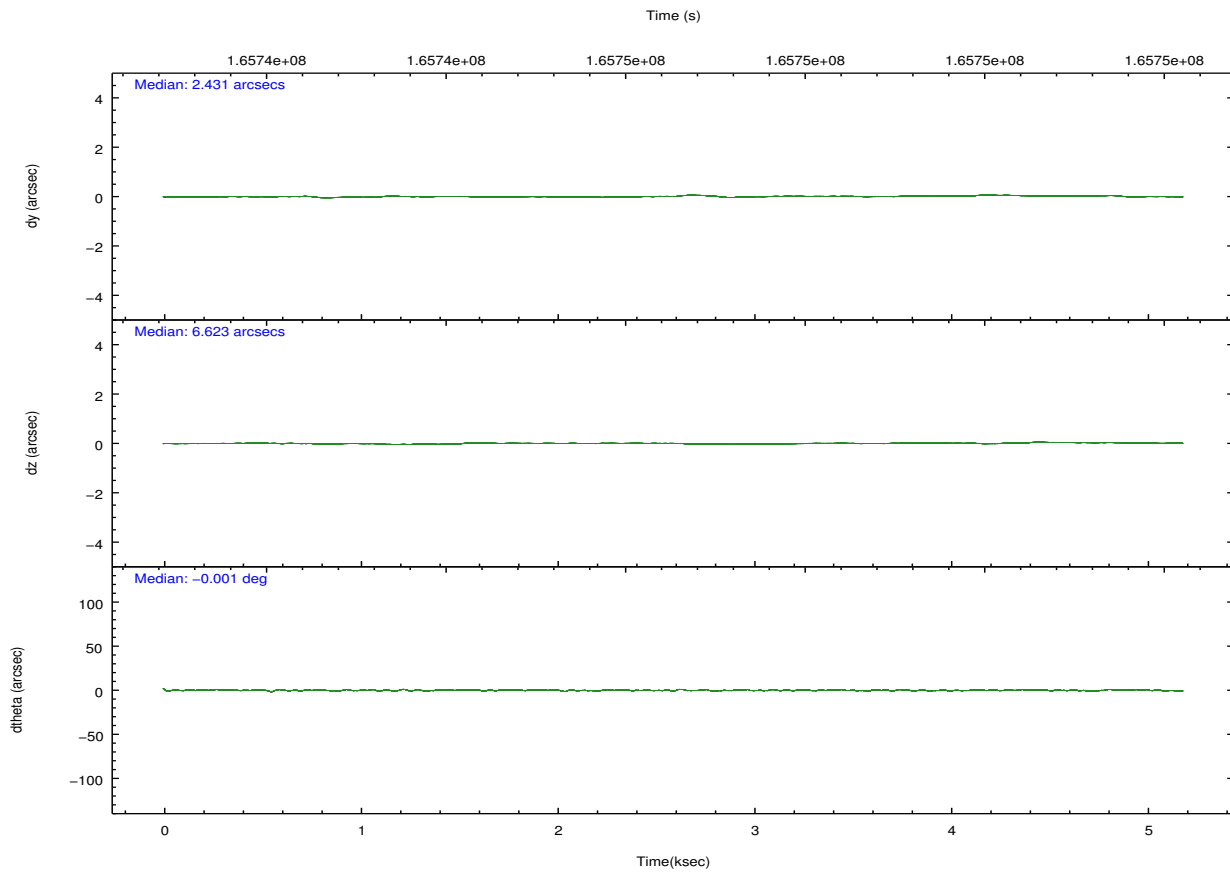
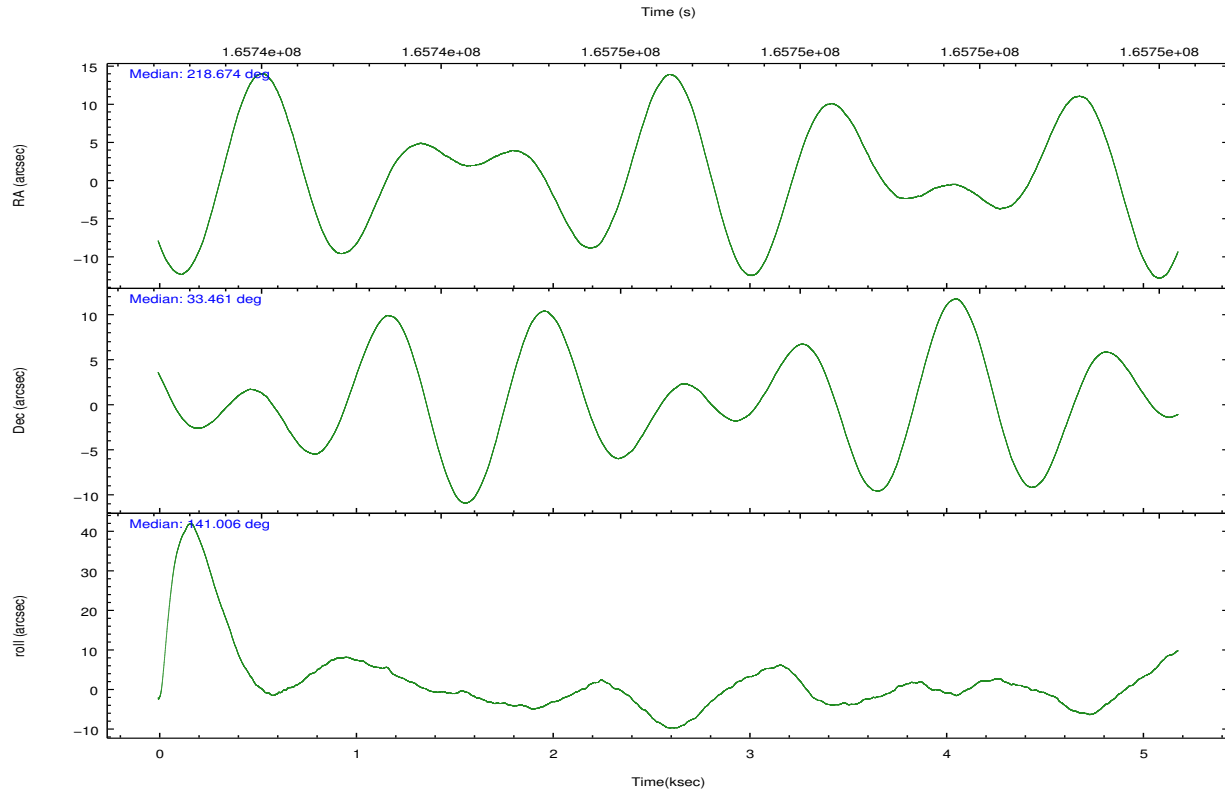
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	849	1128	978	819	839
	3%	5%	3%	3%	3%
grade 1 events	15	20	12	15	8
	0%	0%	0%	0%	0%
grade 2 events	564	582	544	447	502
	2%	2%	2%	1%	2%
grade 3 events	266	305	282	255	265
	1%	1%	1%	1%	1%
grade 4 events	236	300	281	238	272
	1%	1%	1%	0%	1%
grade 5 events	702	777	713	781	805
	3%	3%	2%	3%	3%
grade 6 events	444	520	411	412	495
	1%	2%	1%	1%	2%
grade 7 events	19938	18879	23089	21565	20941
	86%	83%	87%	87%	86%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	218.706655	218.6740767383482	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.456841	33.46096506808131	Alternating exposures requested	N	N
[deg] Pointing Roll	140.783553	141.0101932664644	[s] Primary exposure time	0.000000	3.1
[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)	165743855.184000	165743479.37732			
Observation start date	2003-04-03T07:56:31	2003-04-03T07:51:19			
[s] Observation end time (MET)	165748855.184000	165748989.26506			
Observation end date	2003-04-03T09:19:51	2003-04-03T09:23:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect



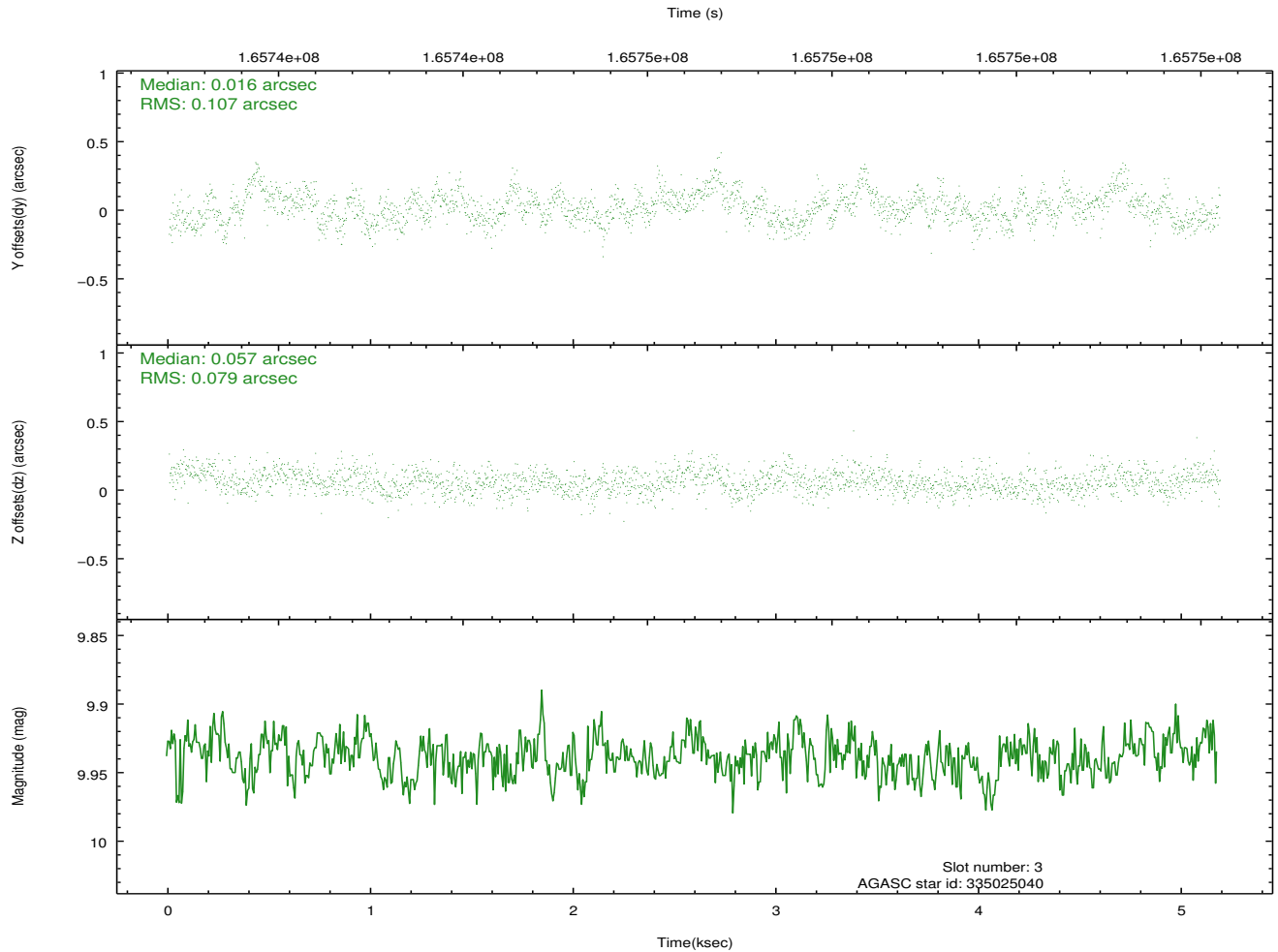
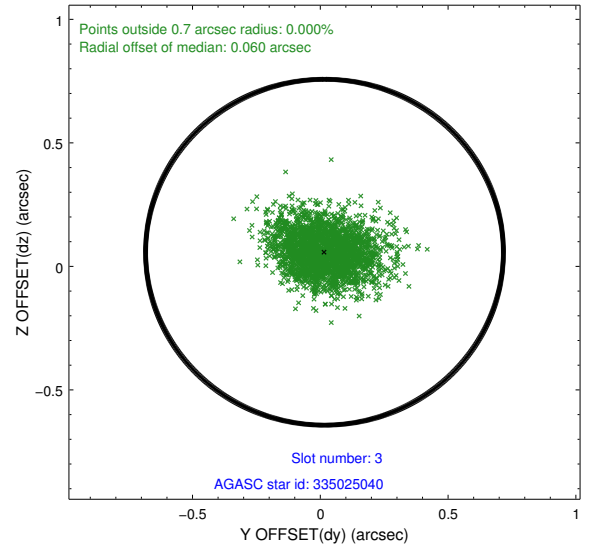
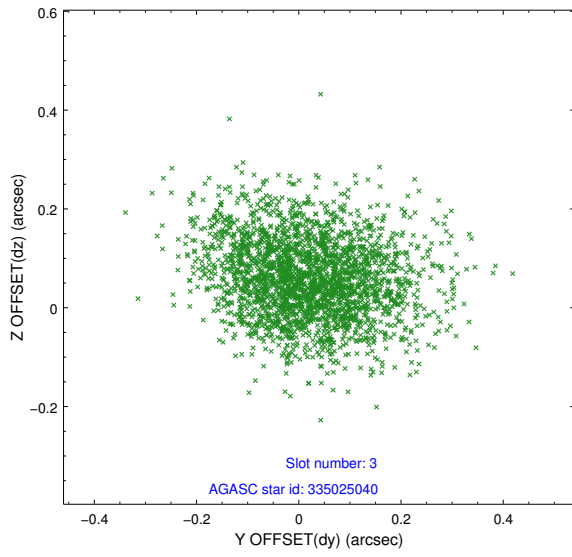


### Slot Statistics

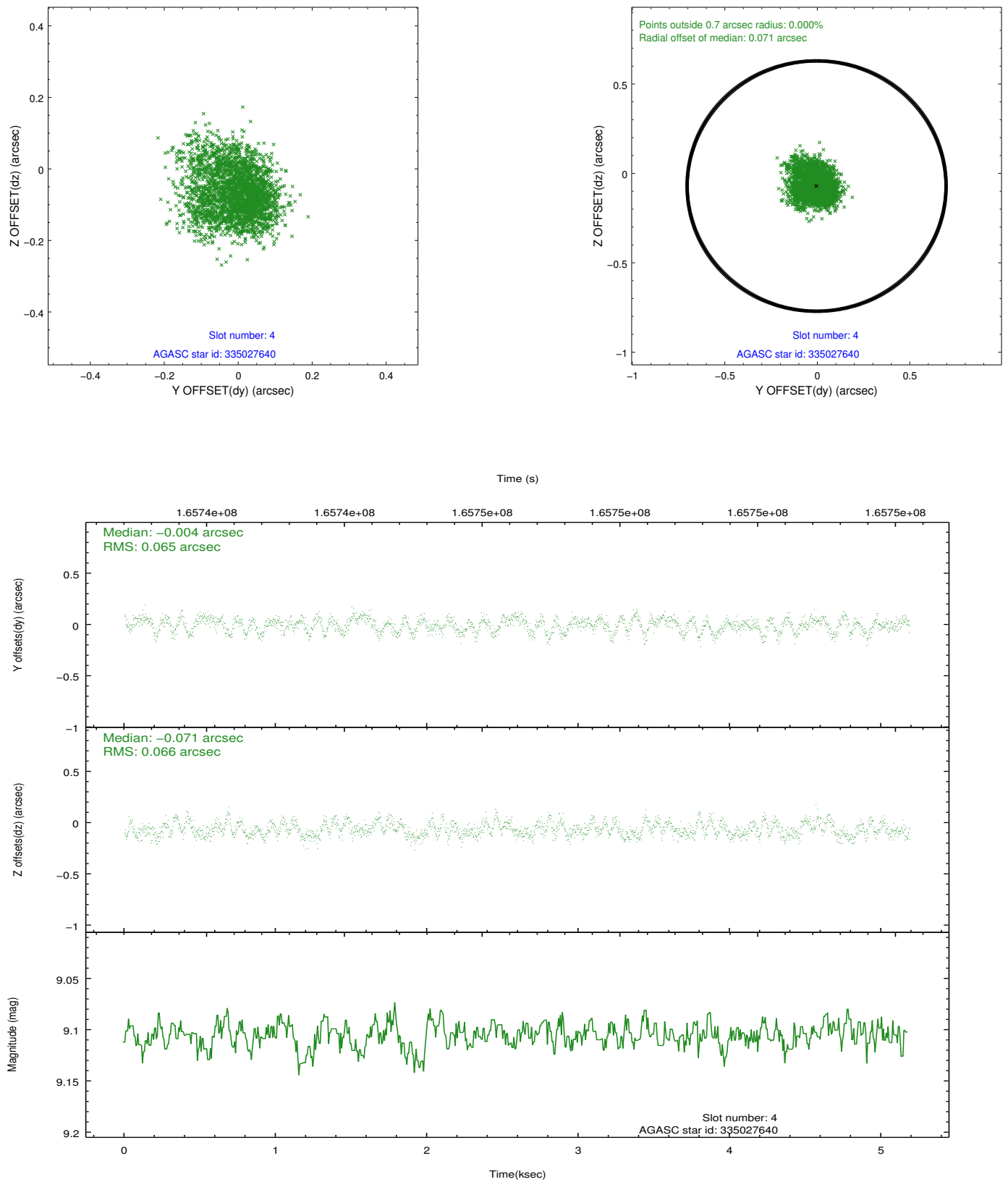
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1265	0.014	-0.006	0.006	0.010	0.000000	0.000000	937.37	-830.03
1	FID	ACIS-I-5	7.24	1265	-0.082	0.053	0.006	0.010	0.000000	0.000000	-1810.14	1066.99
2	FID	ACIS-I-6	7.26	1265	-0.023	0.023	0.007	0.011	0.000000	0.000000	401.67	1712.75
3	GUIDE	335025040	9.94	2528	0.016	0.057	0.139	0.235	218.601670	34.305240	2173.37	-2169.16
4	GUIDE	335027640	9.11	2527	-0.004	-0.071	0.099	0.160	218.092211	33.193770	839.67	1898.75
5	GUIDE	335152784	7.23	2529	-0.055	-0.081	0.066	0.101	219.280617	33.678221	-824.94	-1707.88
6	GUIDE	335154960	9.56	2528	0.054	0.071	0.111	0.180	219.209961	33.303073	-1521.65	-532.46
7	GUIDE	335157088	9.08	2528	-0.011	0.002	0.137	0.210	219.274029	33.726909	-698.99	-1831.39

## 2.4 Star Slots

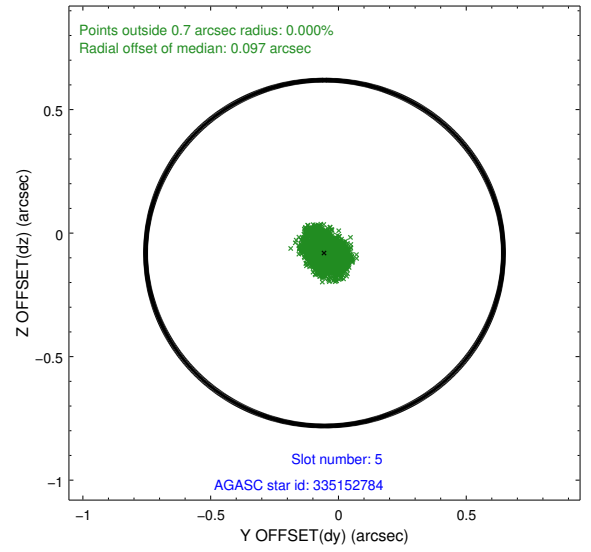
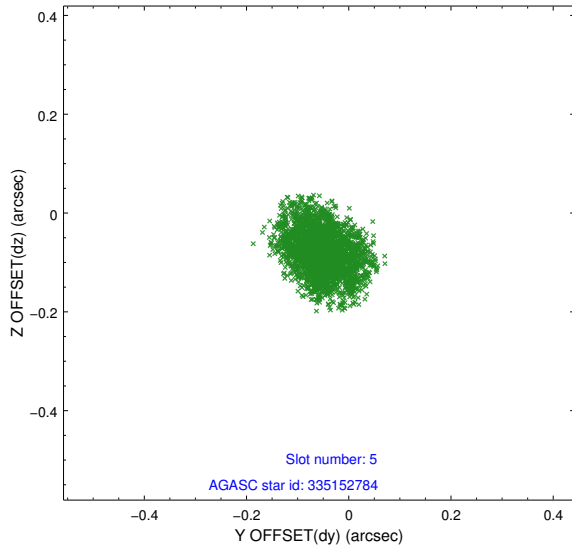
### 2.4.1 Slot 3



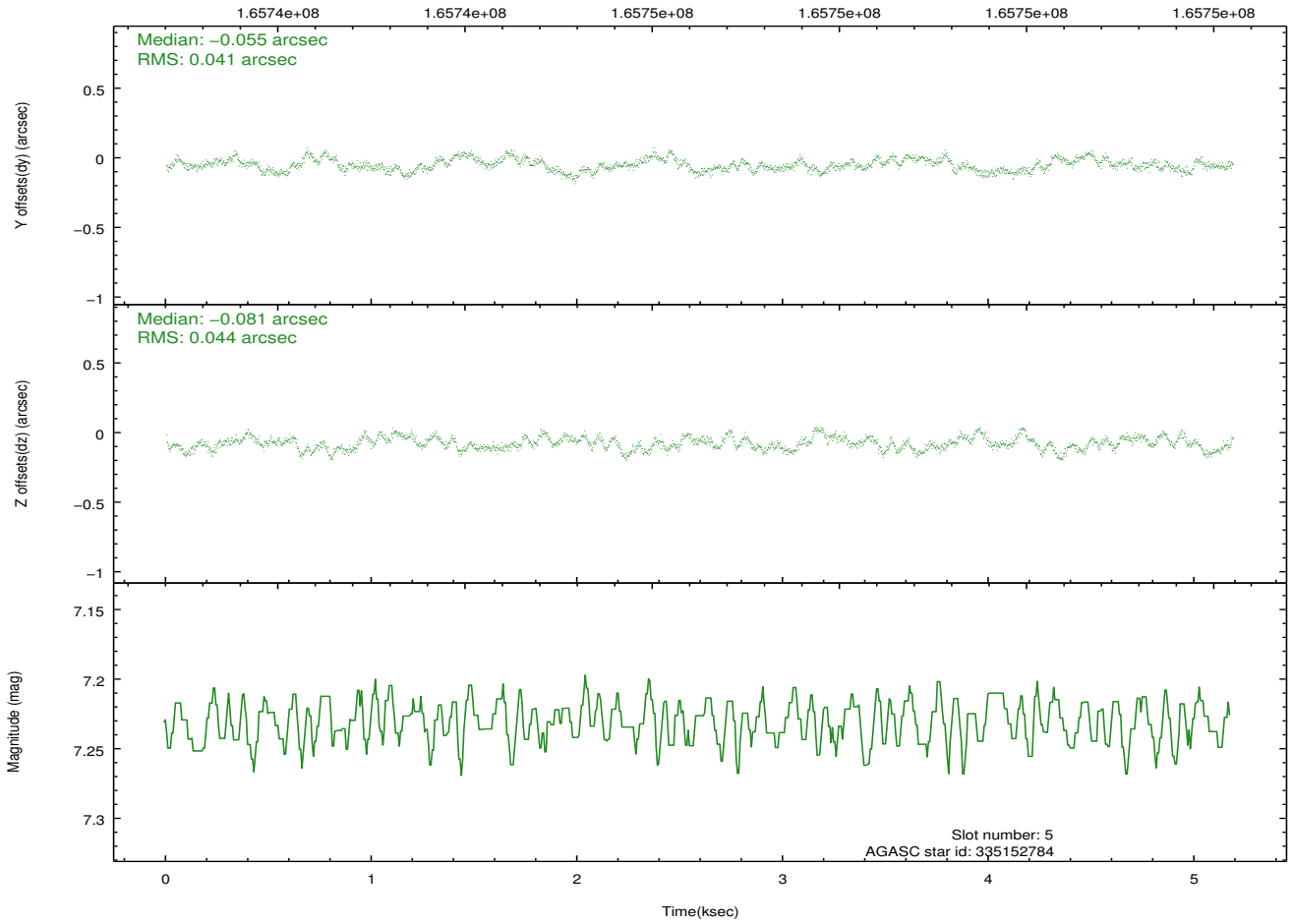
## 2.4.2 Slot 4



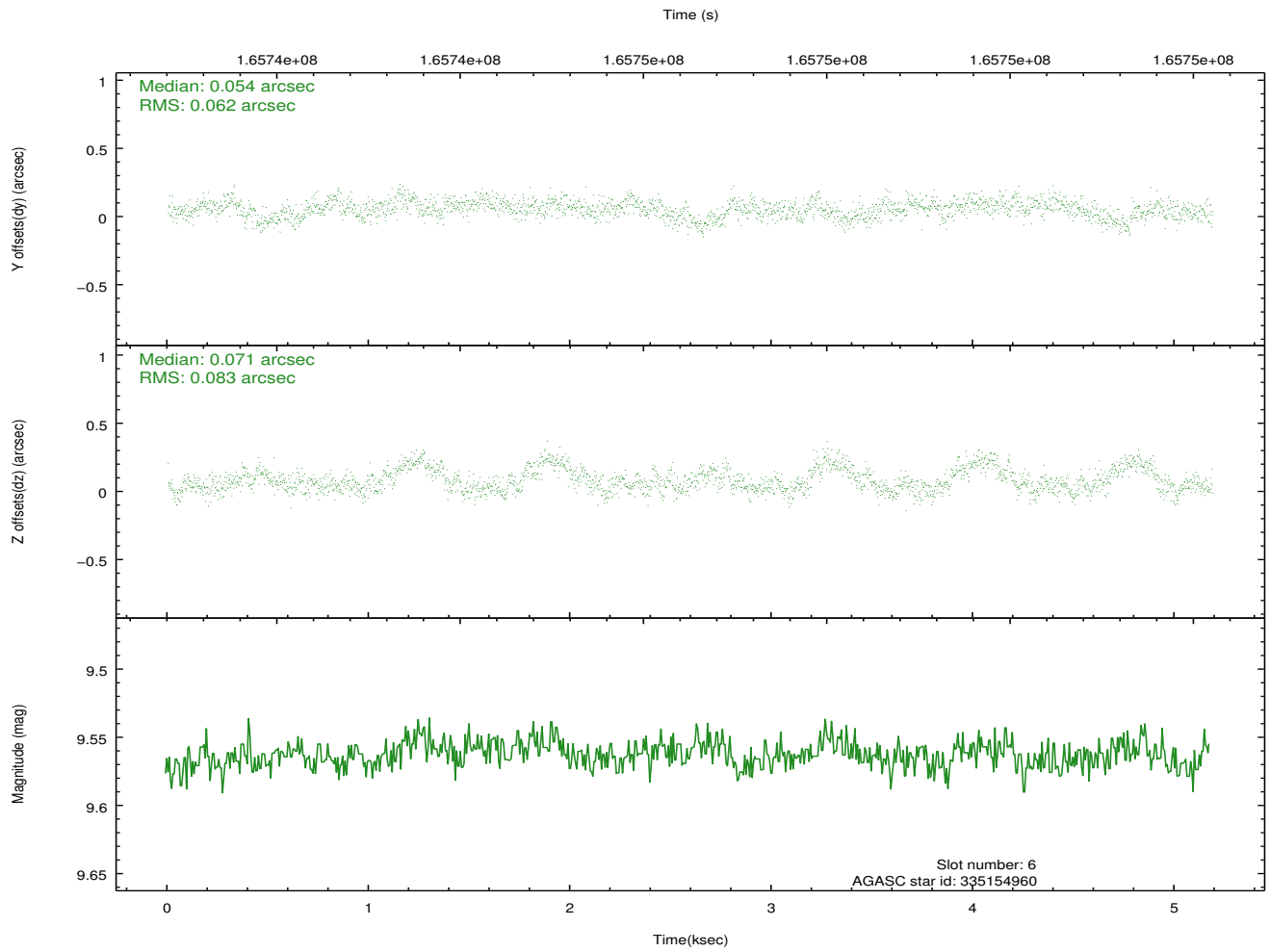
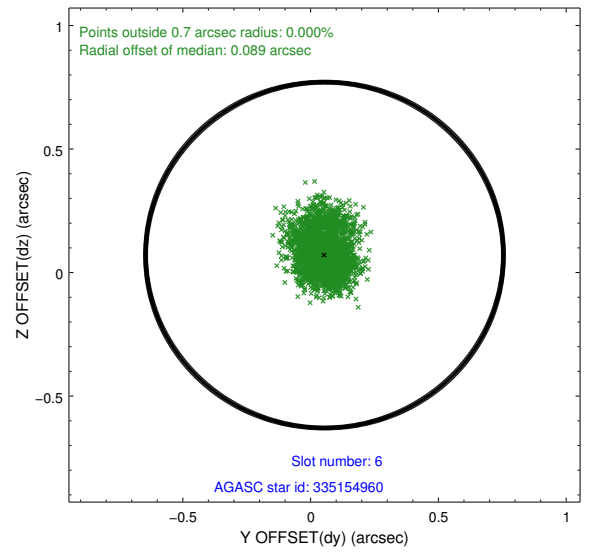
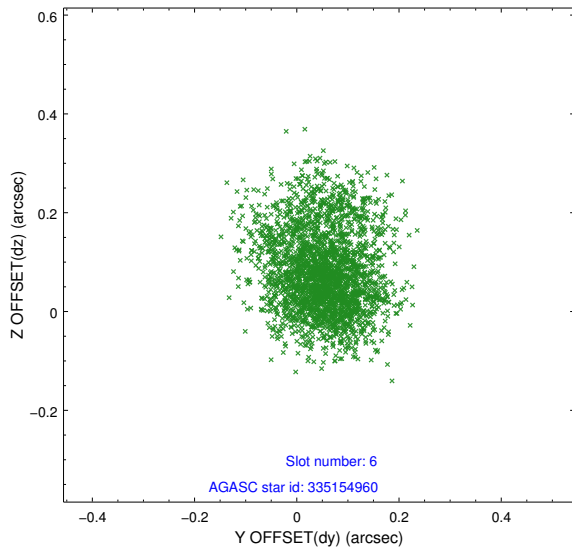
### 2.4.3 Slot 5



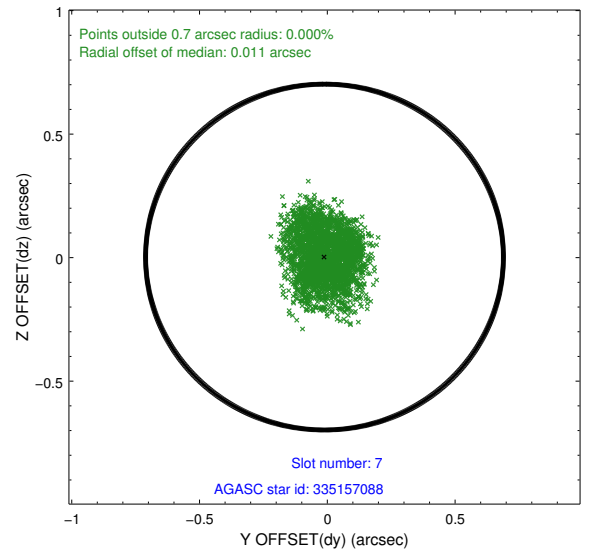
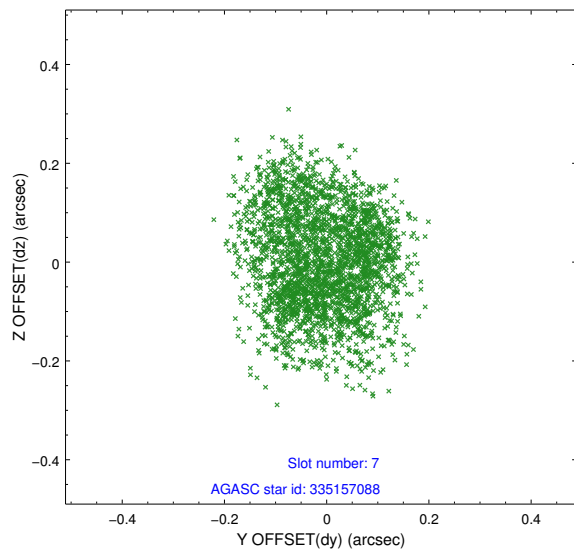
Time (s)



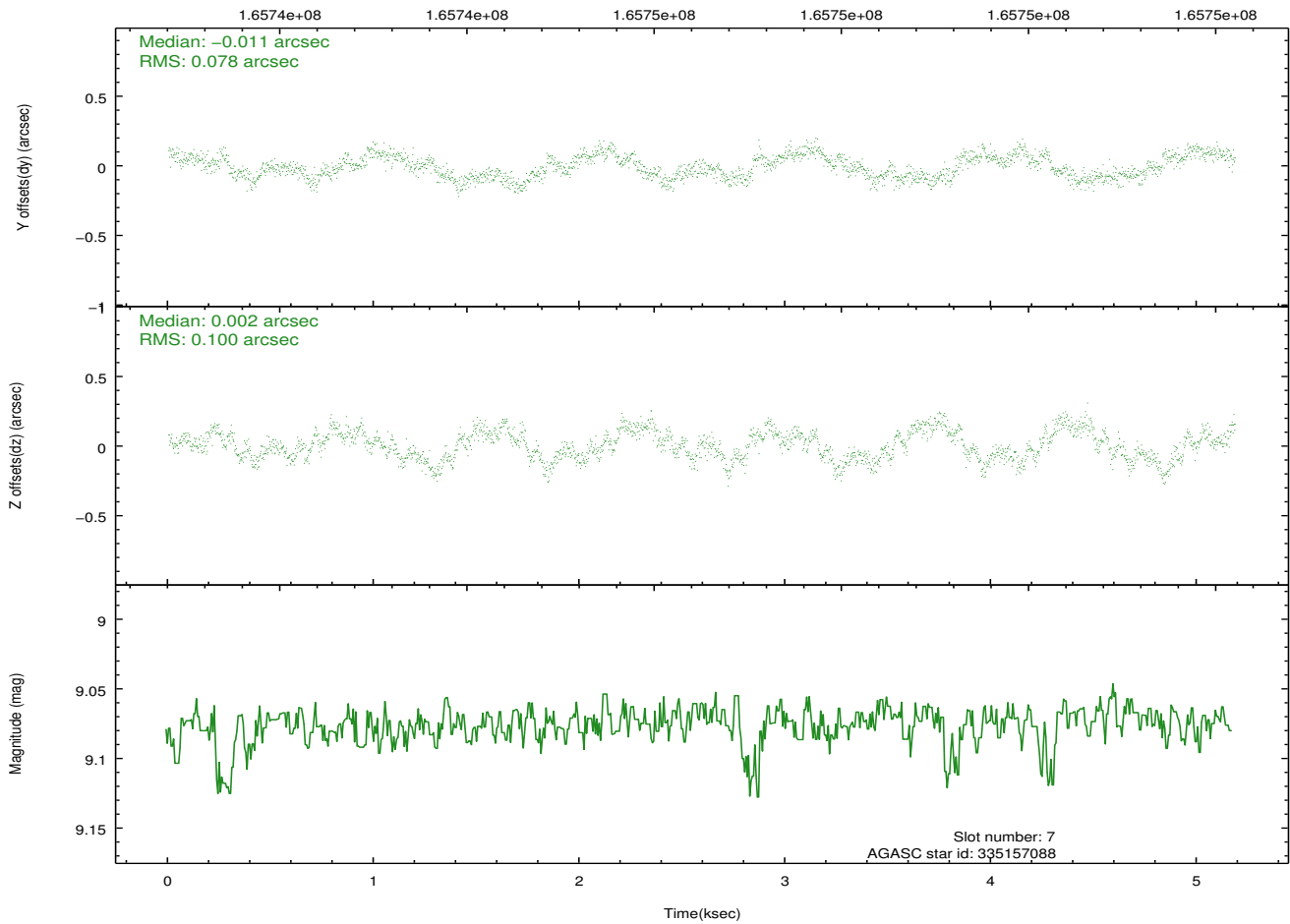
### 2.4.4 Slot 6



### 2.4.5 Slot 7

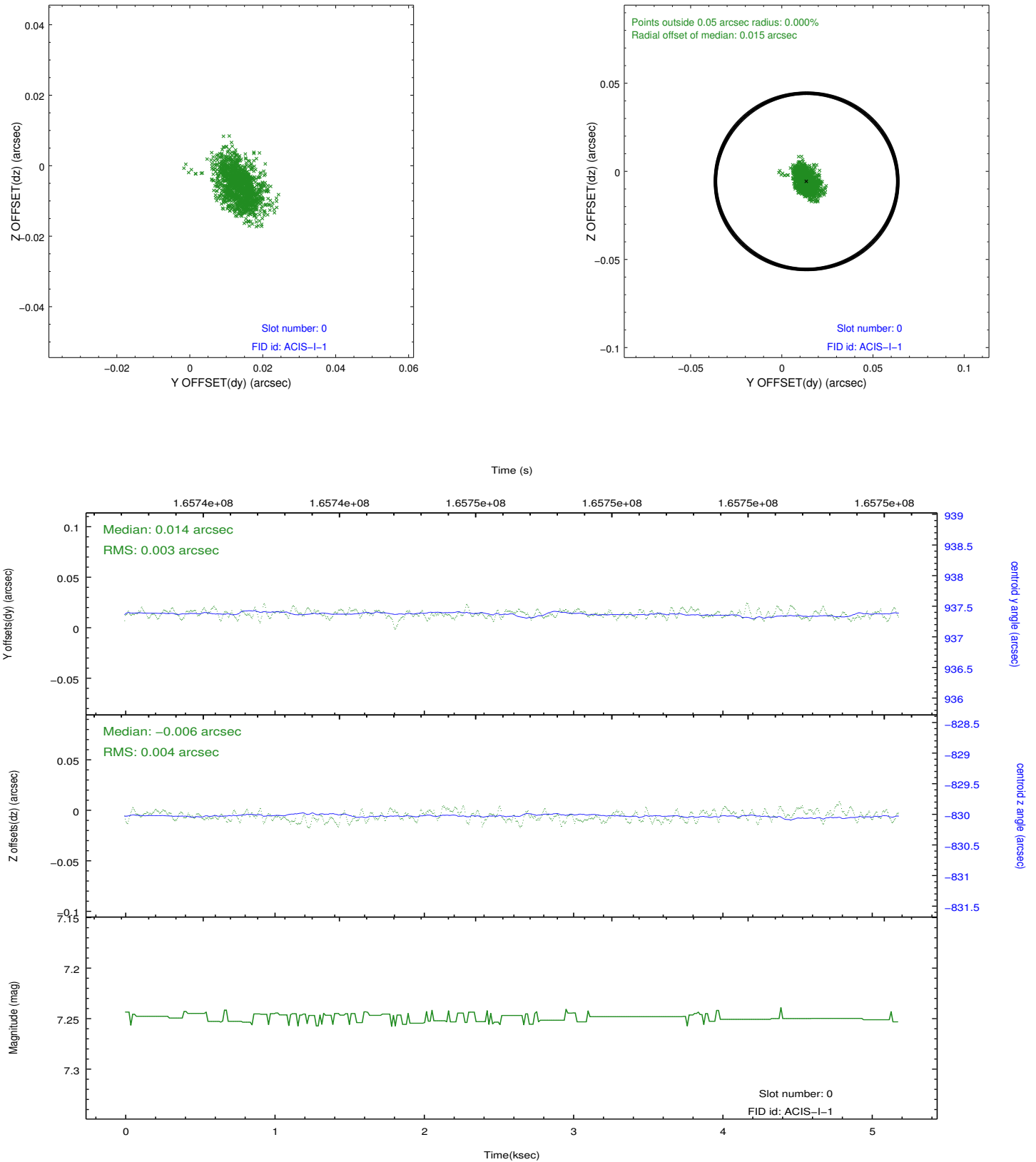


Time (s)

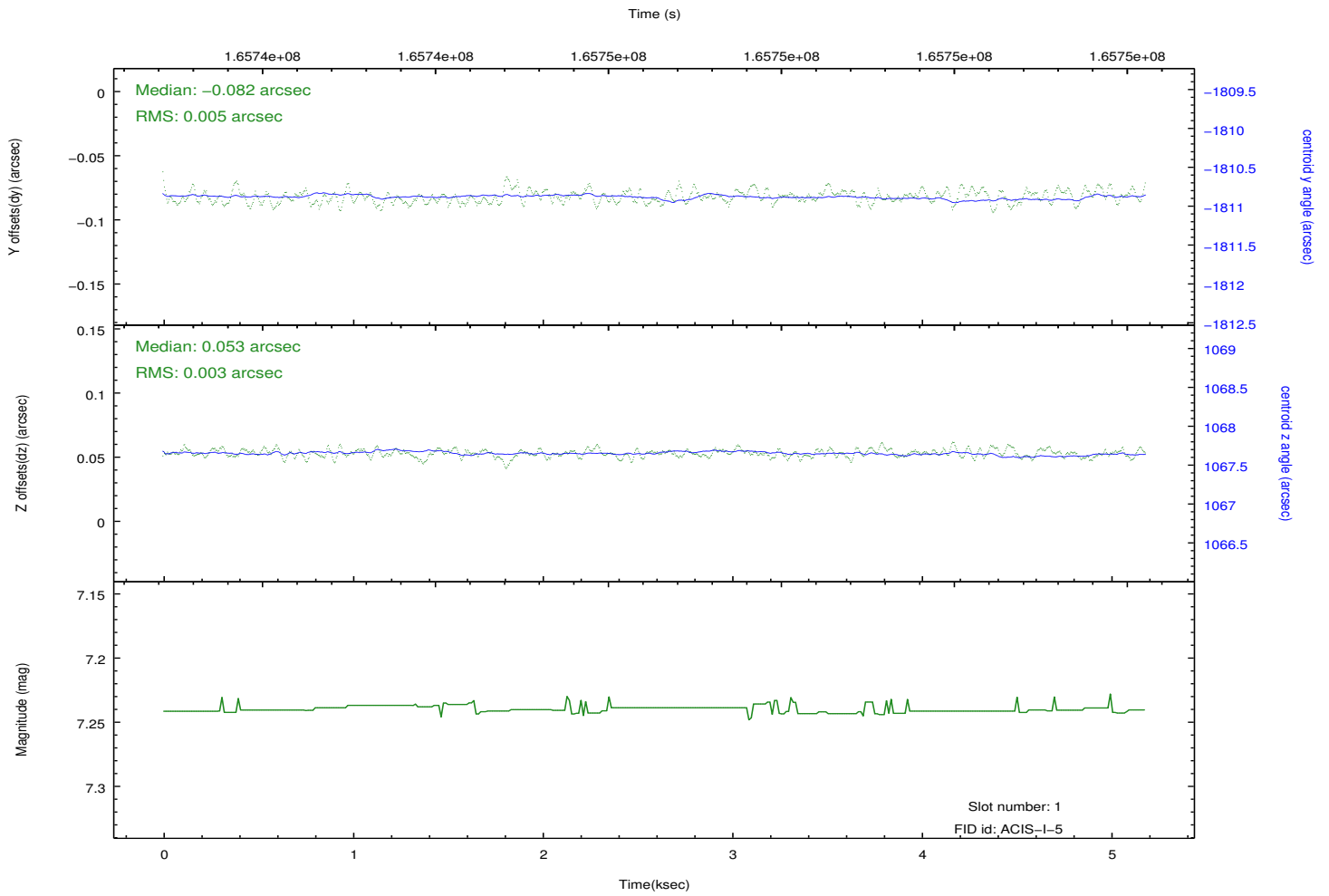
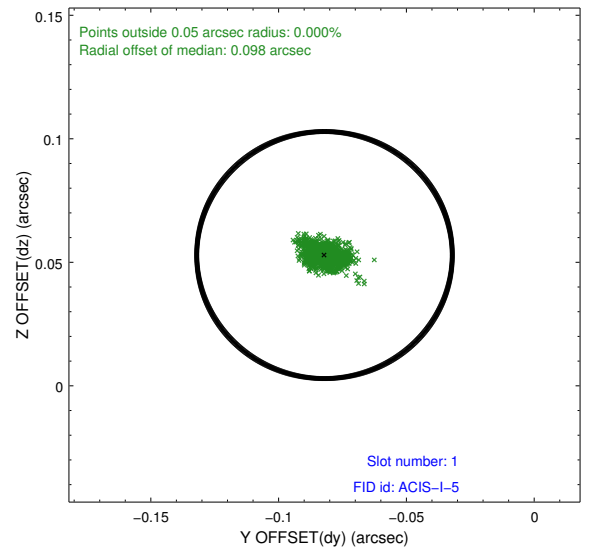
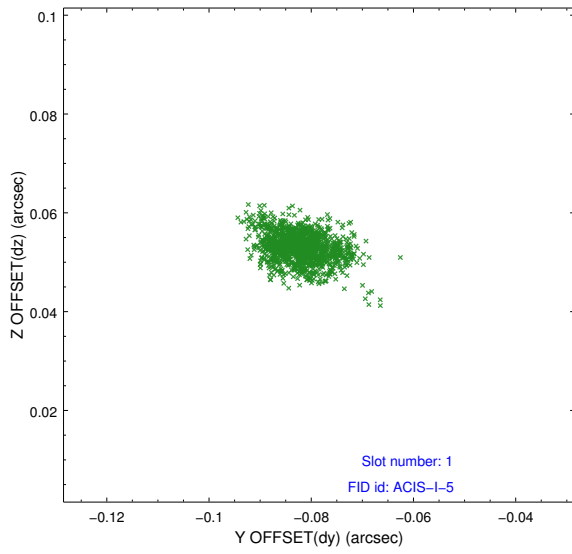


## 2.5 FID Slots

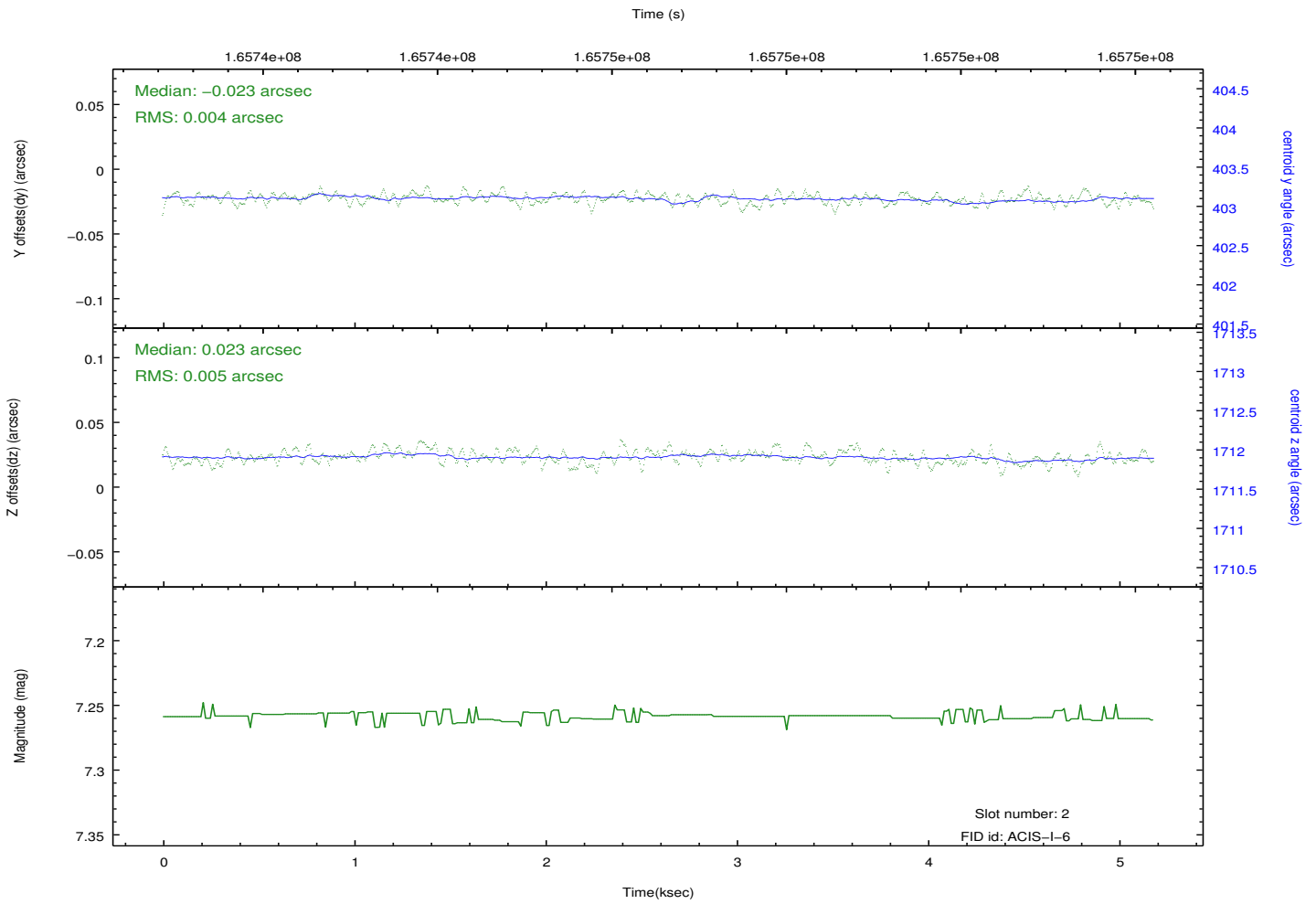
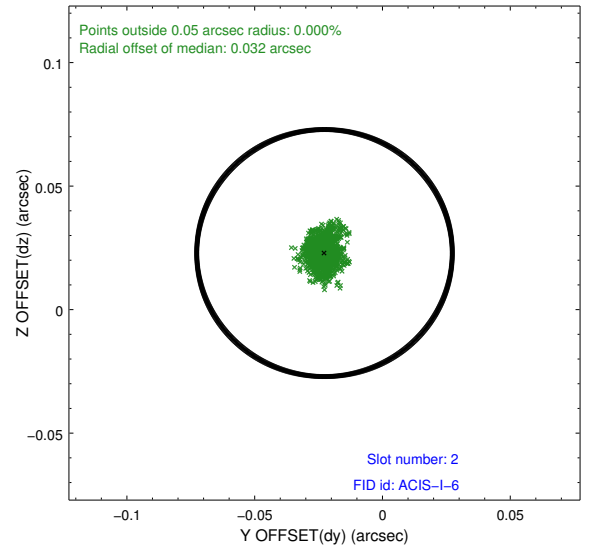
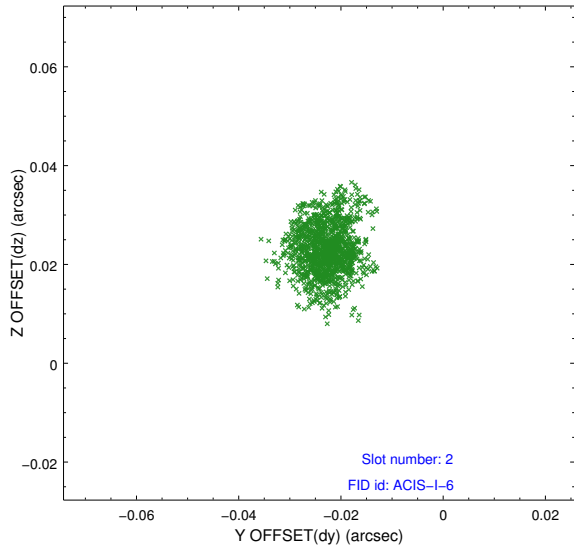
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.777

### A.2 Comments