

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11644 - L2 Version 2  
Chandra X-Ray Center

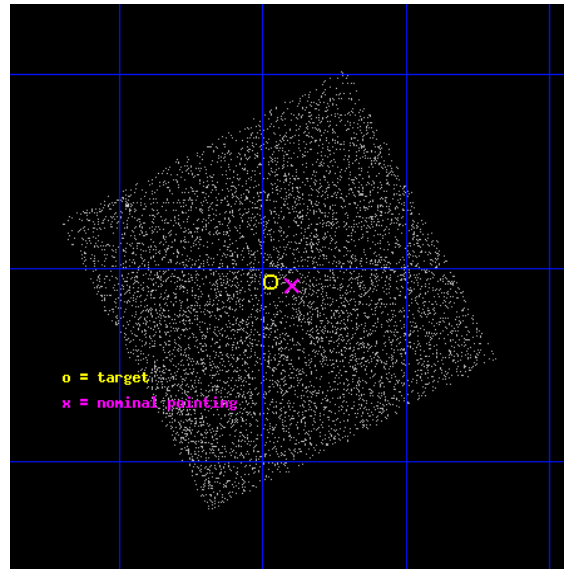
L2 Processing Date : Jun 18 2012

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# 1 Front

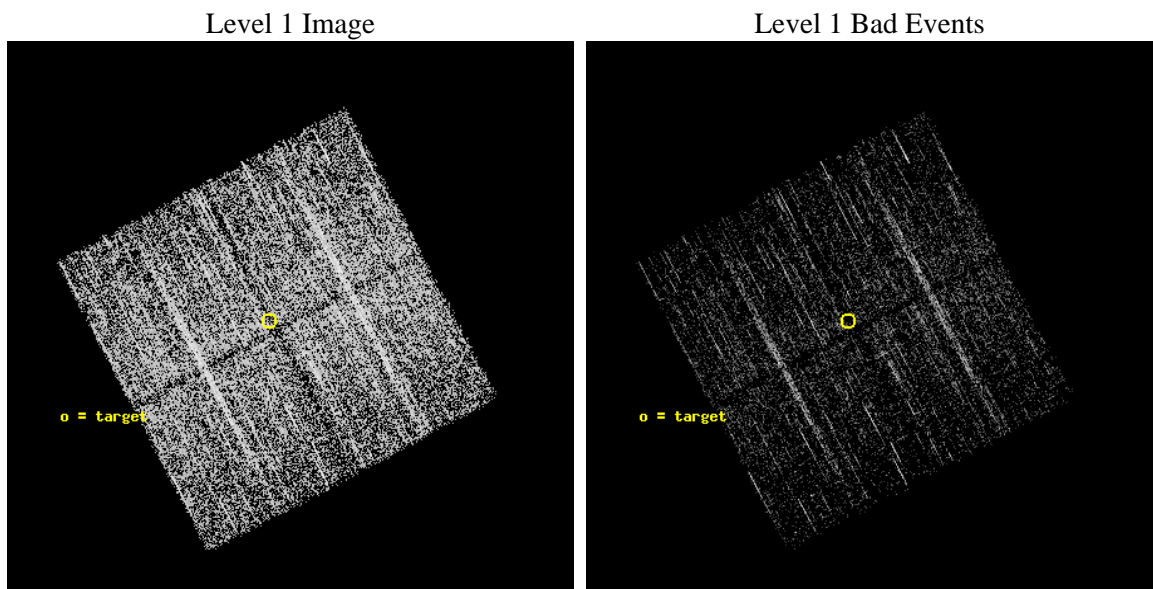
seq_num	702230	Sequence number
obs_id	11644	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1381	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.99375	Observer's specified target RA [deg]
dec_targ	-2.511556	Observer's specified target Dec [deg]
ra_nom	216.97483128239	Nominal RA [deg]
dec_nom	-2.51530290838	Nominal Dec [deg]
roll_nom	62.147771784916	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2470.700019002	Sum of GTIs [s]
livetime	2438.4185043508	Livetime [s]
ontime0	2470.700019002	Sum of GTIs [s]
ontime1	2470.700019002	Sum of GTIs [s]
ontime2	2470.700019002	Sum of GTIs [s]
ontime3	2470.700019002	Sum of GTIs [s]
l2events	7478	Number of level 2 events



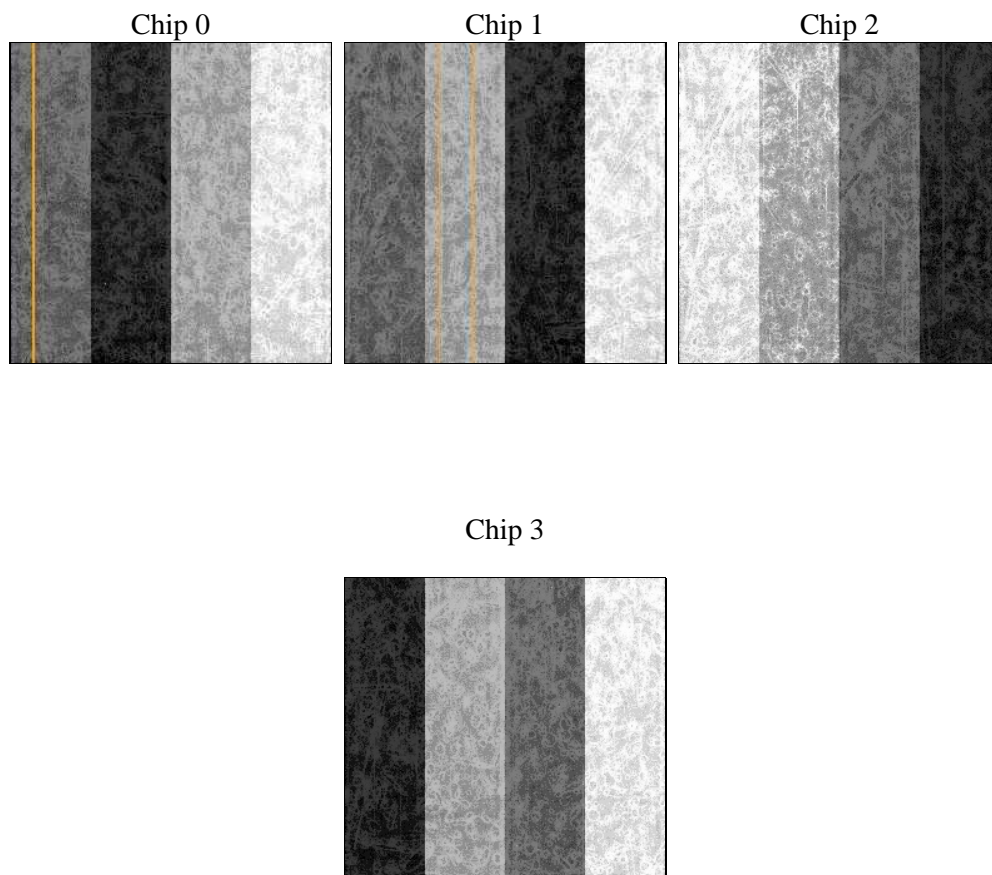
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2680.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2470.700019002	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	2470.700019002	Sum of GTIs [s]
date	2012-06-18T06:49:56	Date and time of file creation	ontime1	2470.700019002	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2470.700019002	Sum of GTIs [s]
			ontime3	2470.700019002	Sum of GTIs [s]
			l1events	82606	Number of level 1 events

### 2.1.4 Events

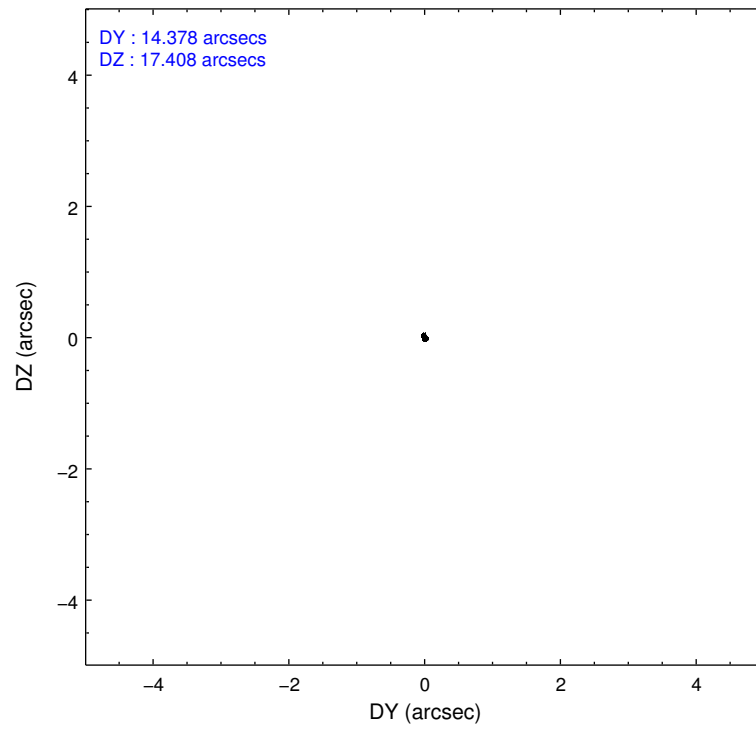
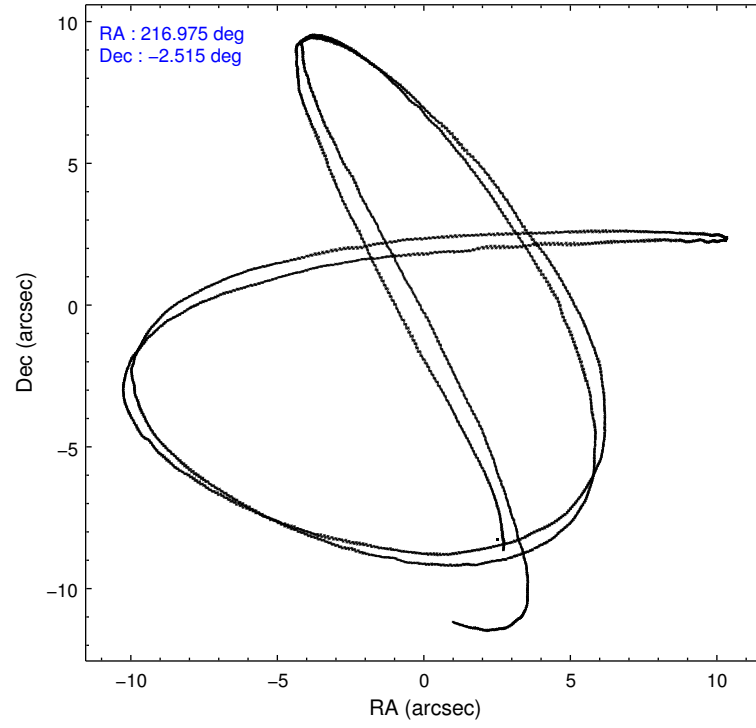
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	21123	19033	21328	21122
rejected events	18845	16580	19173	19015
rejected %	89%	87%	89%	90%

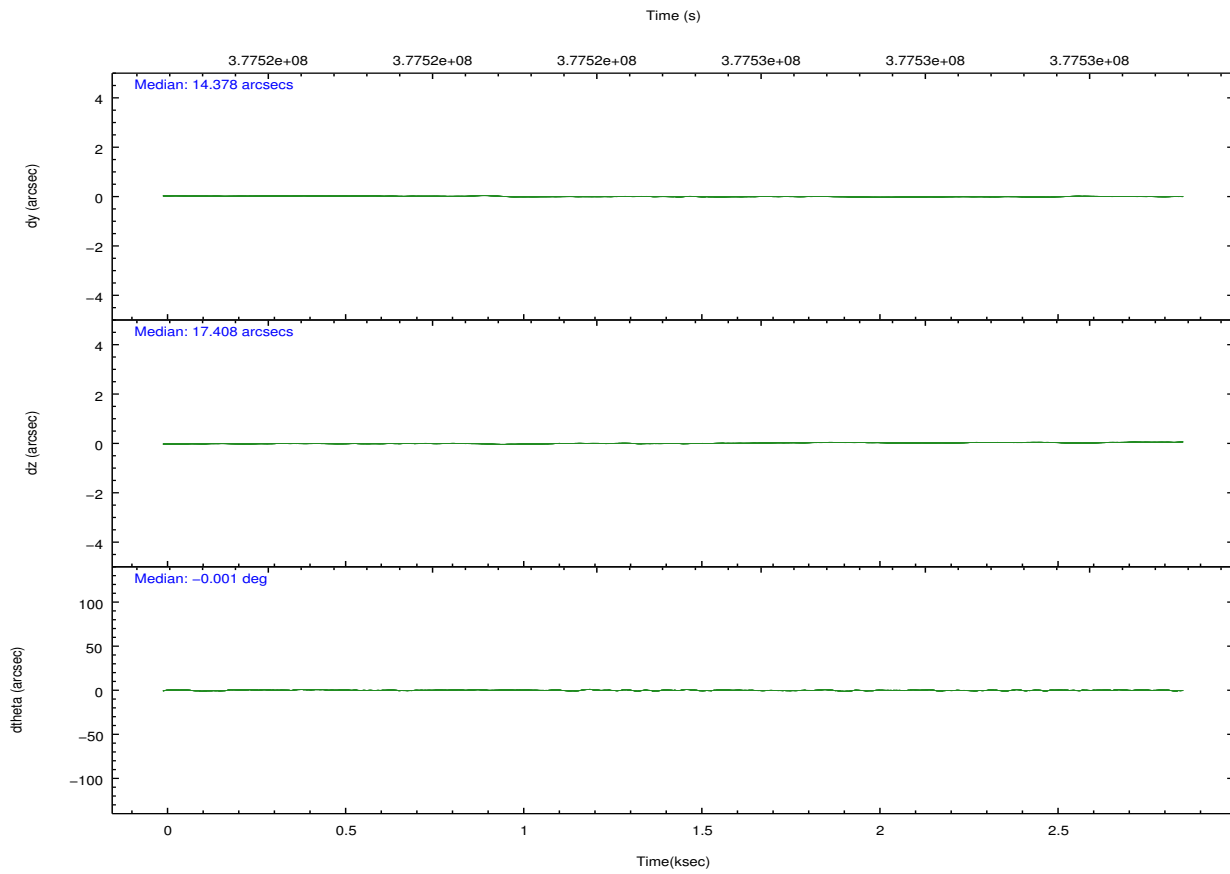
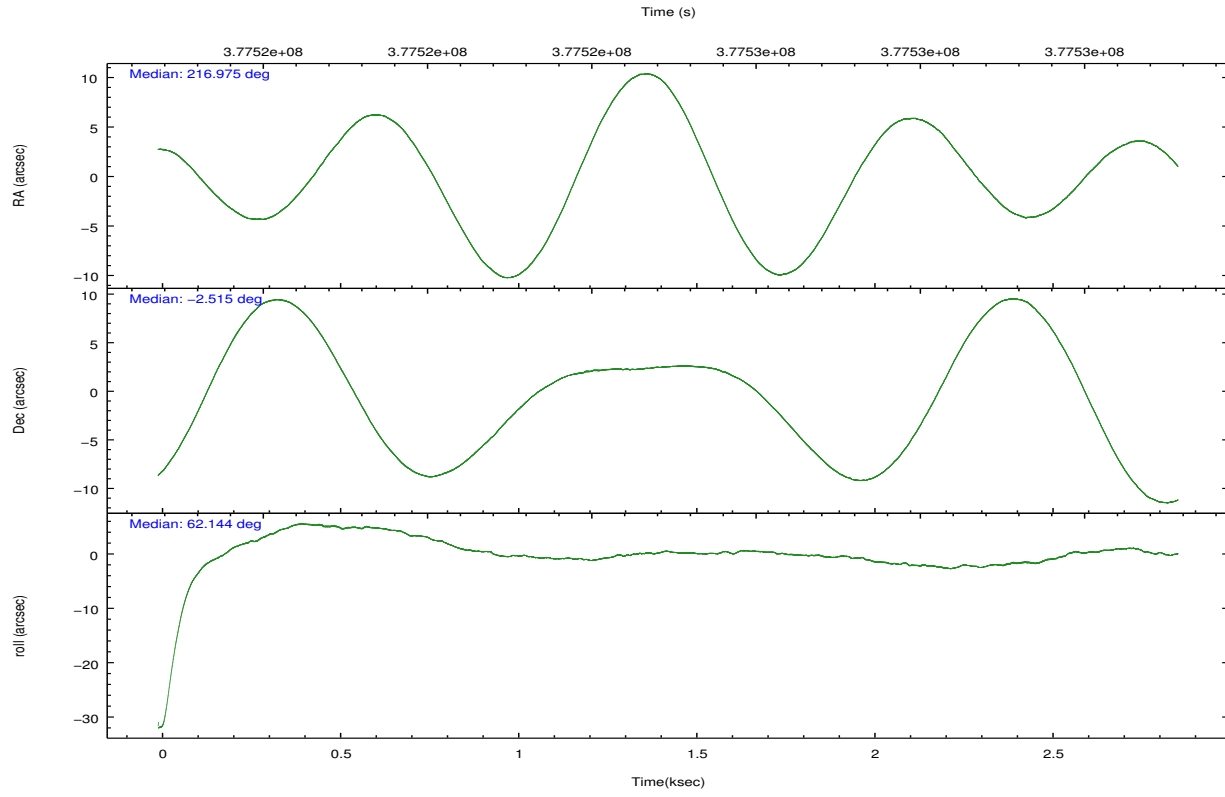
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	775	868	760	784
	3%	4%	3%	3%
grade 1 events	14	12	11	8
	0%	0%	0%	0%
grade 2 events	574	587	487	477
	2%	3%	2%	2%
grade 3 events	252	237	245	190
	1%	1%	1%	0%
grade 4 events	252	242	249	229
	1%	1%	1%	1%
grade 5 events	777	824	781	863
	3%	4%	3%	4%
grade 6 events	428	521	417	428
	2%	2%	1%	2%
grade 7 events	18051	15742	18378	18143
	85%	82%	86%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	216.975920	216.9748312823898	Subarray requested	NONE	NONE
[deg] Pointing Dec	-2.542857	-2.515302908379956	Alternating exposures requested	N	N
[deg] Pointing Roll	61.939161	62.147771784916	[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)	377523979.184000	377523528.36519			
Observation start date	2009-12-18T11:45:13	2009-12-18T11:38:48			
[s] Observation end time (MET)	377526659.184000	377527660.1404			
Observation end date	2009-12-18T12:29:53	2009-12-18T12:47:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect





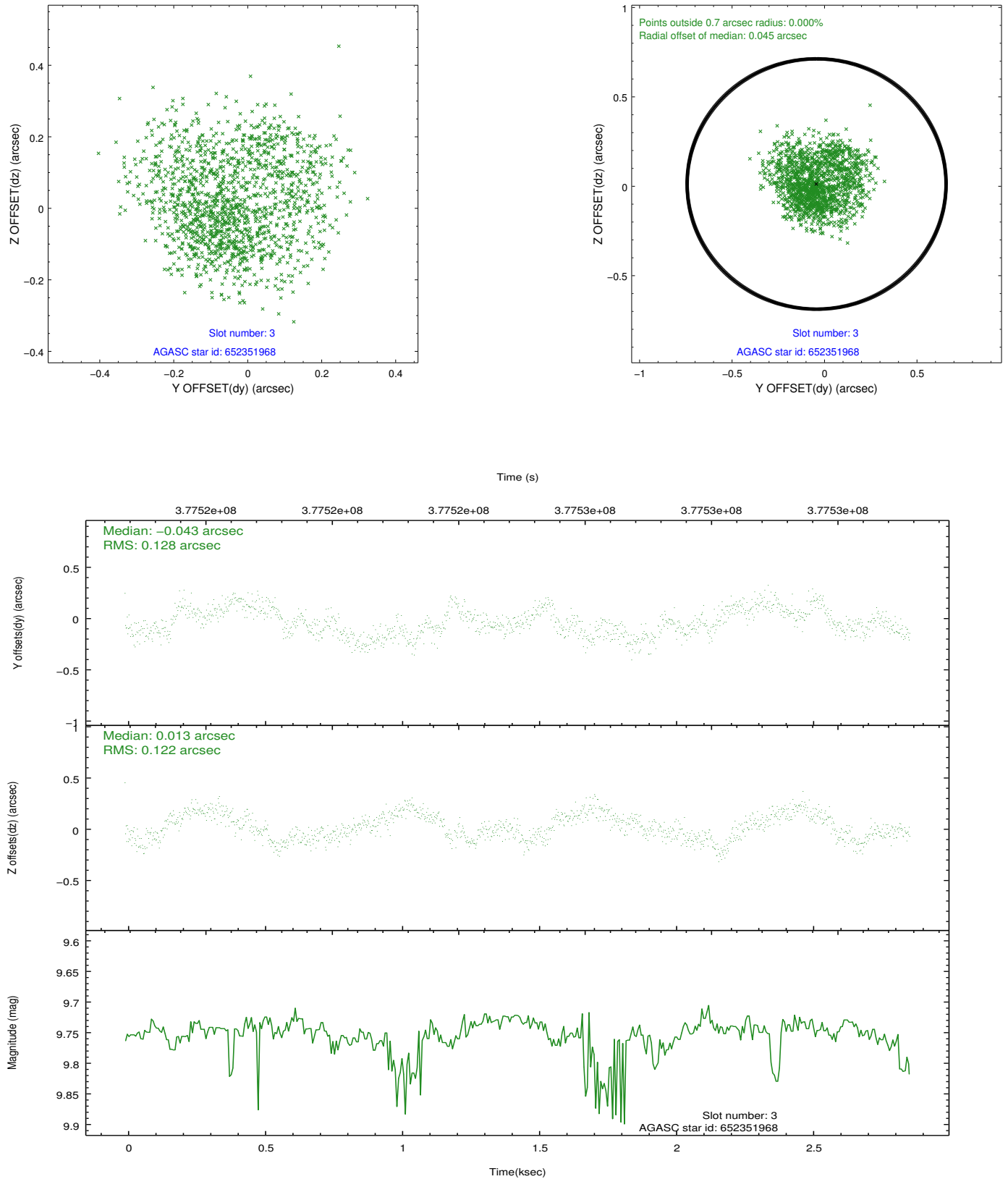
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.98	699	0.048	0.012	0.006	0.011	0.000000	0.000000	925.13	-841.08
1	FID	ACIS-I-5	6.97	699	-0.190	0.065	0.006	0.011	0.000000	0.000000	-1821.95	1055.38
2	FID	ACIS-I-6	6.98	699	0.051	-0.006	0.006	0.011	0.000000	0.000000	388.28	1702.31
3	GUIDE	652351968	9.75	1387	-0.043	0.013	0.193	0.287	217.366565	-2.169776	1844.95	-609.09
4	GUIDE	652354384	7.85	1398	-0.253	-0.168	0.109	0.156	216.833341	-1.739091	2313.00	1813.58
5	GUIDE	652740048	9.15	1397	0.115	-0.107	0.088	0.147	216.807916	-2.690840	-752.61	284.45
6	GUIDE	652741536	8.43	1397	0.121	0.185	0.120	0.175	216.950009	-3.079765	-1749.91	-826.70
7	GUIDE	652741808	9.56	1393	0.056	0.074	0.120	0.191	217.243448	-2.566828	375.07	-890.52

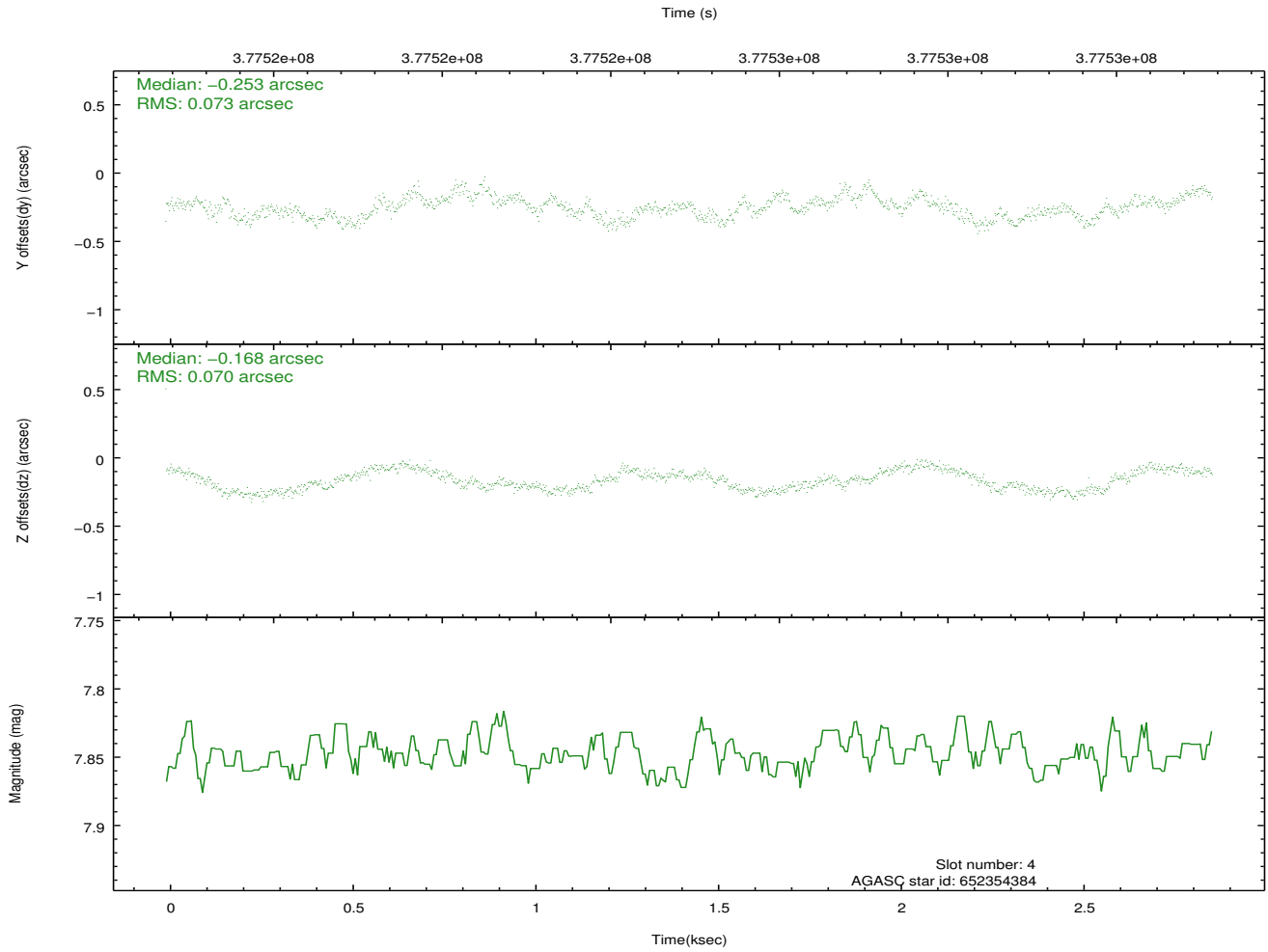
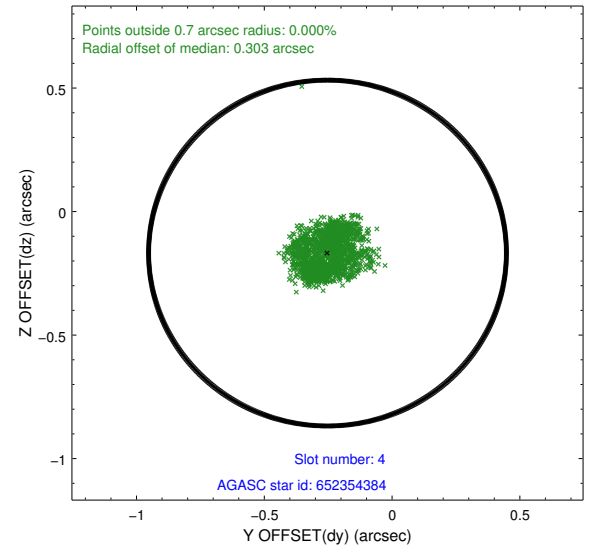
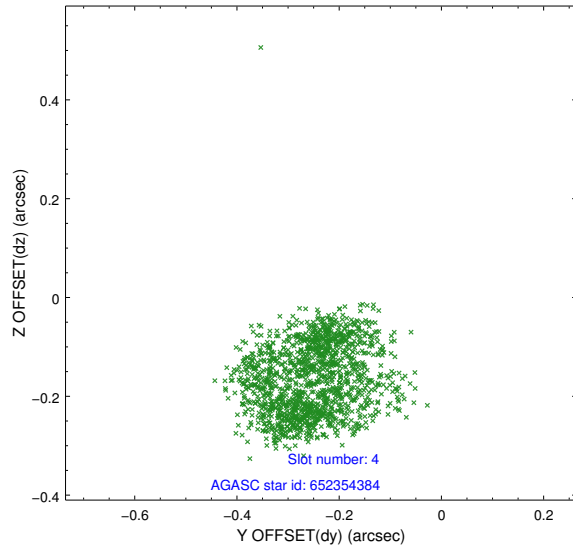


## 2.4 Star Slots

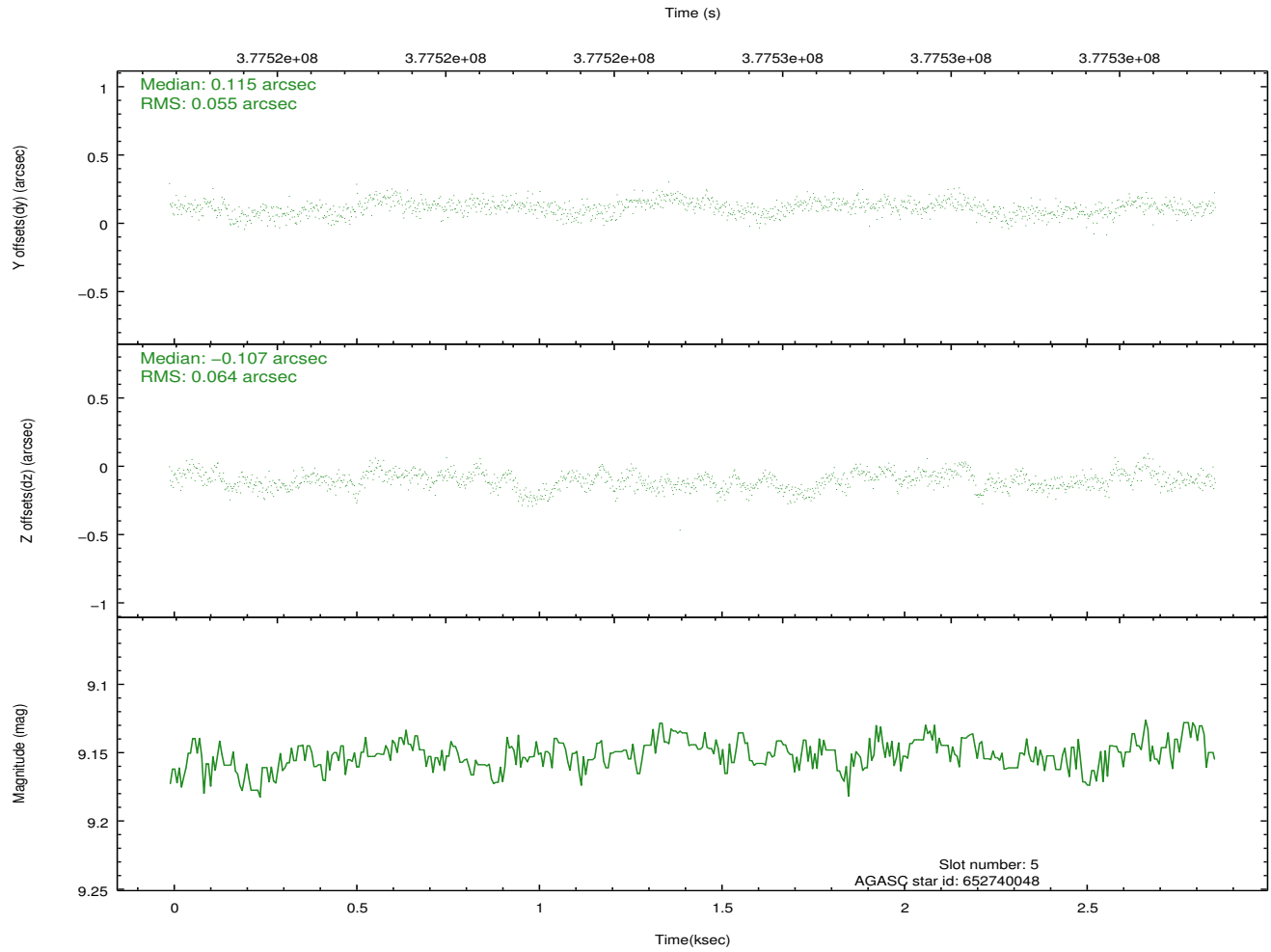
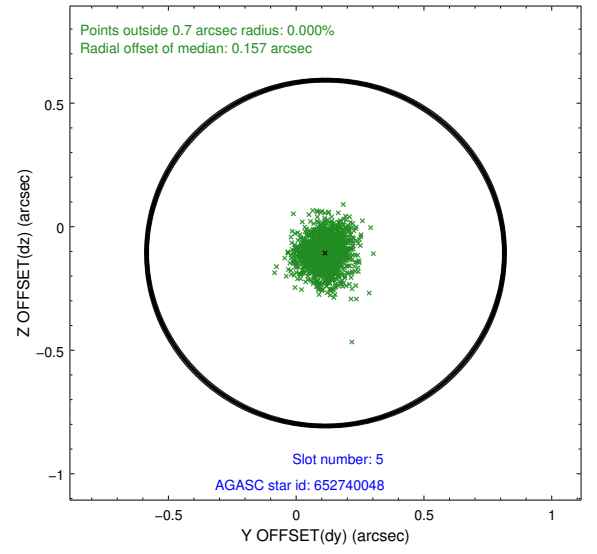
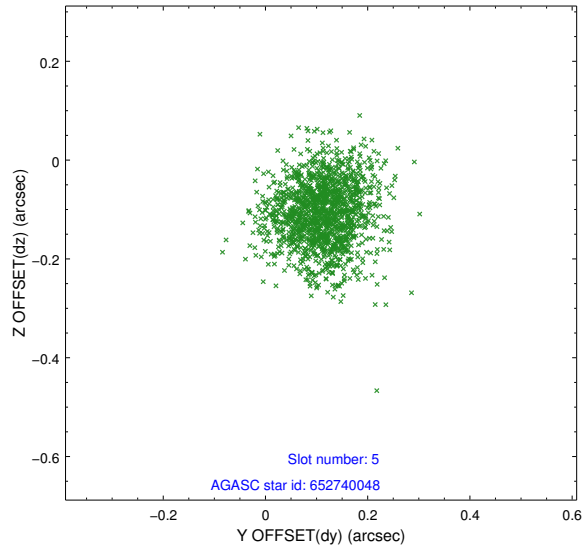
### 2.4.1 Slot 3



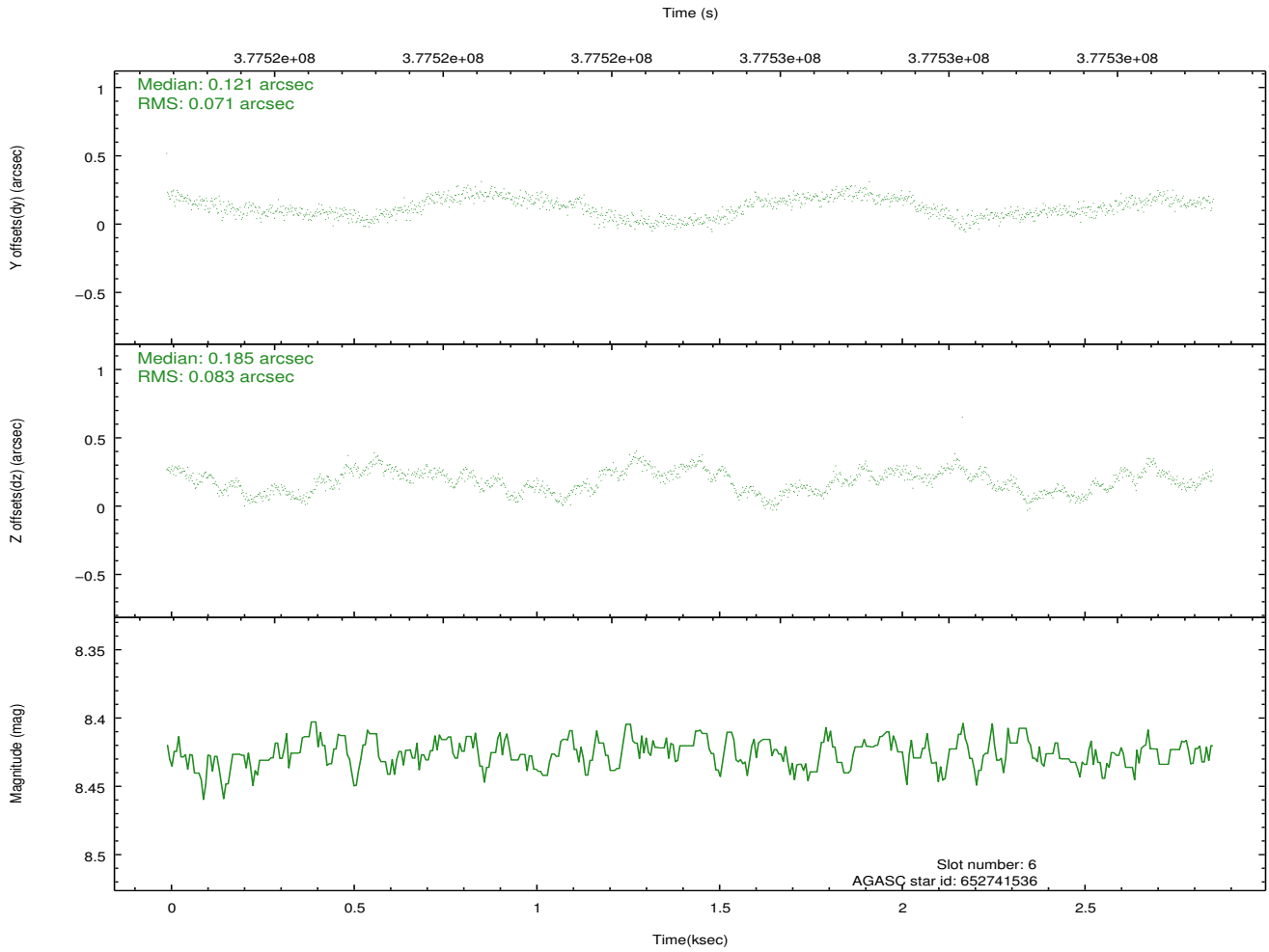
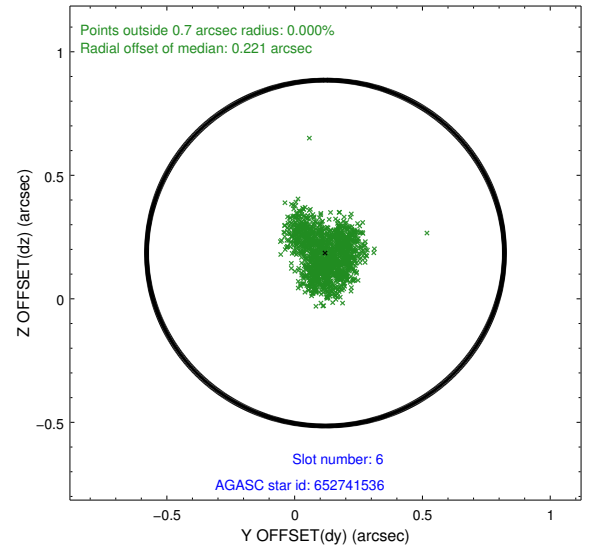
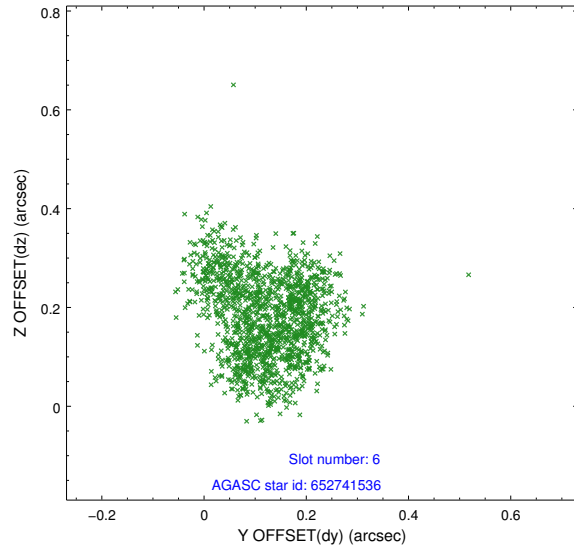
## 2.4.2 Slot 4



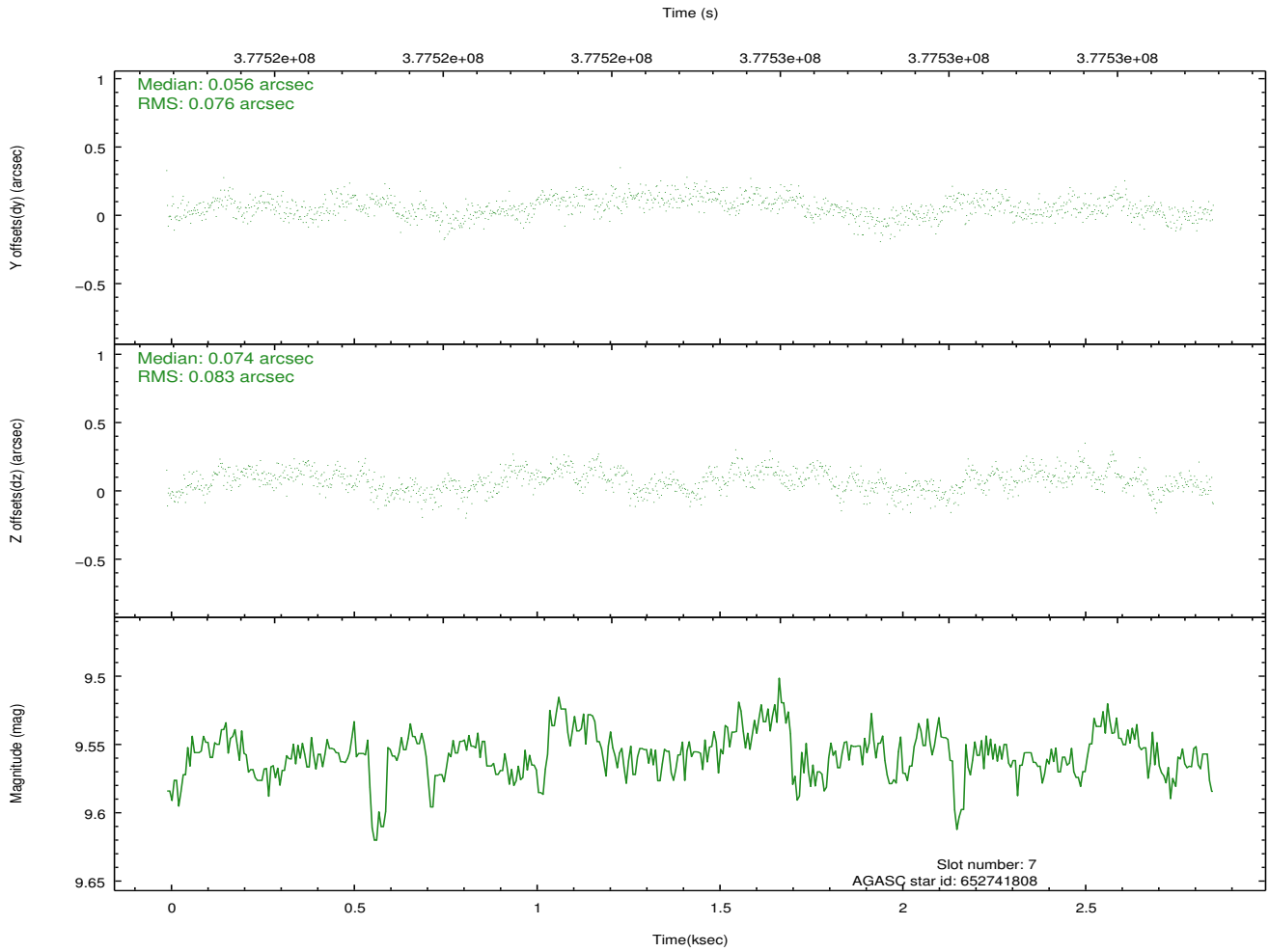
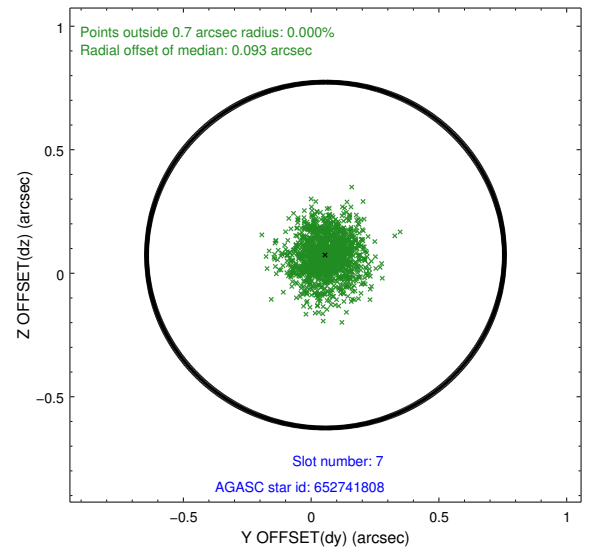
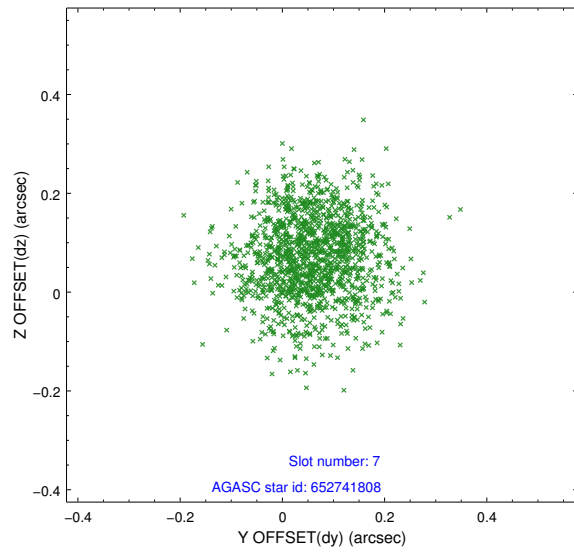
### 2.4.3 Slot 5



## 2.4.4 Slot 6

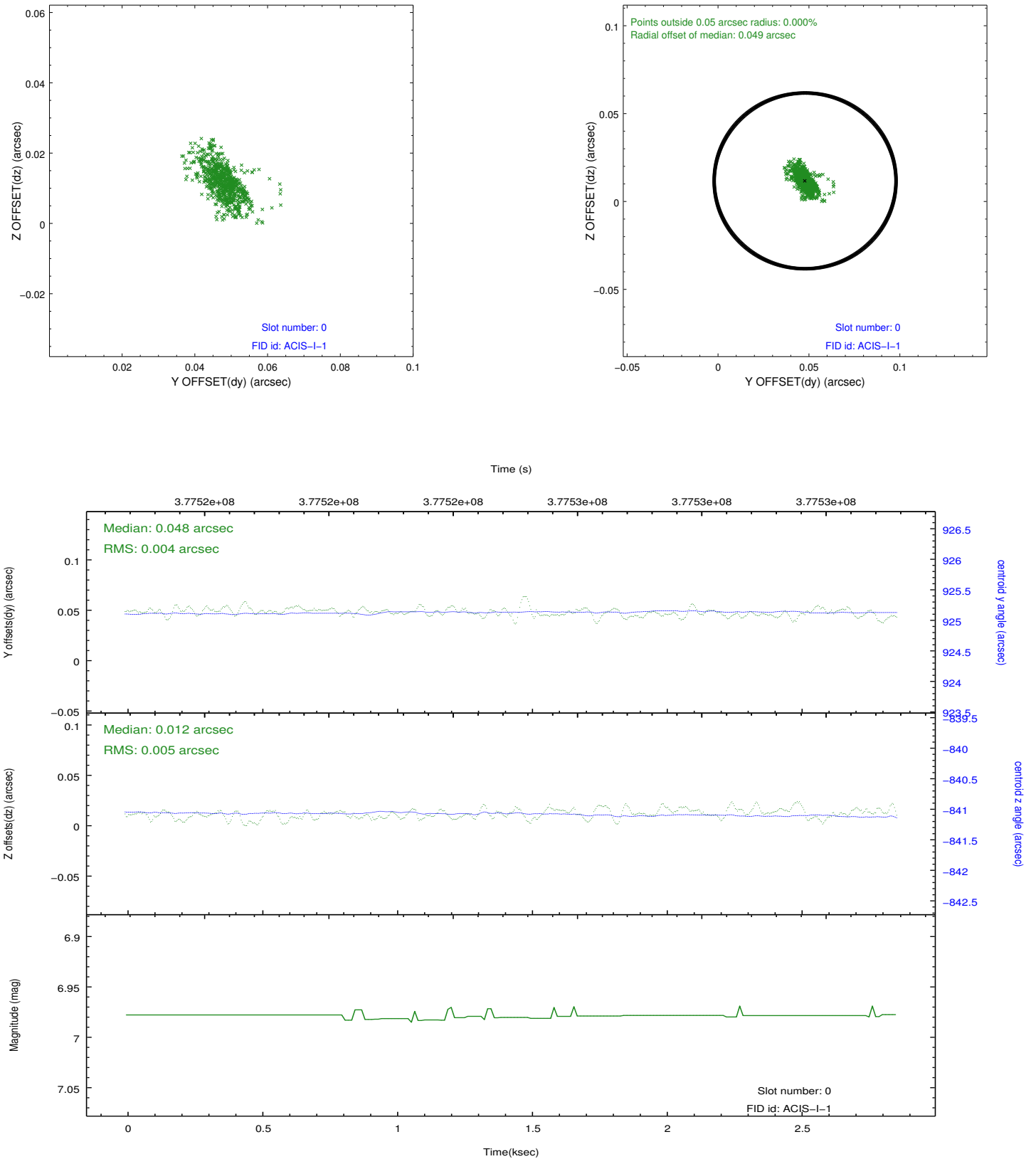


## 2.4.5 Slot 7

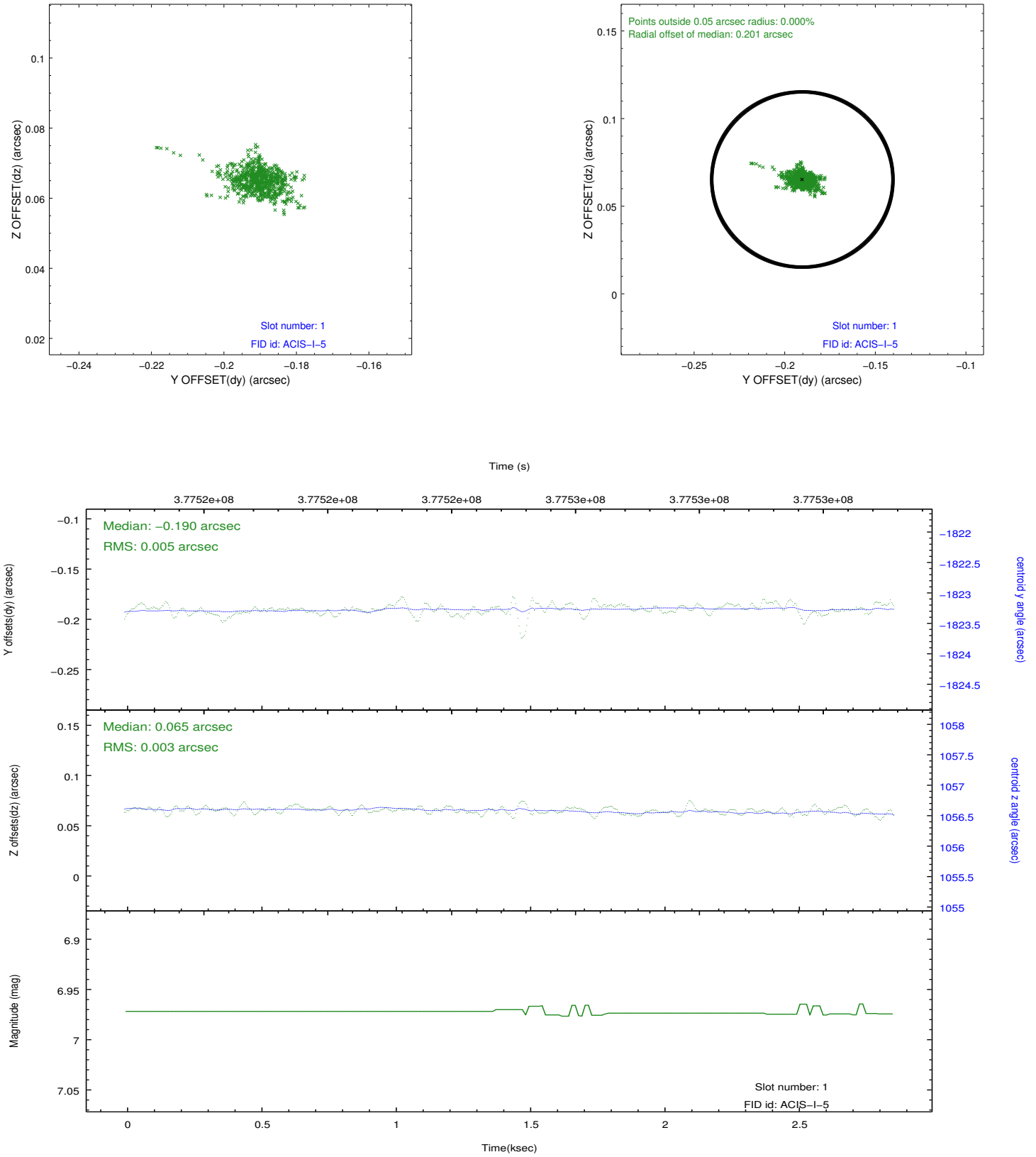


## 2.5 FID Slots

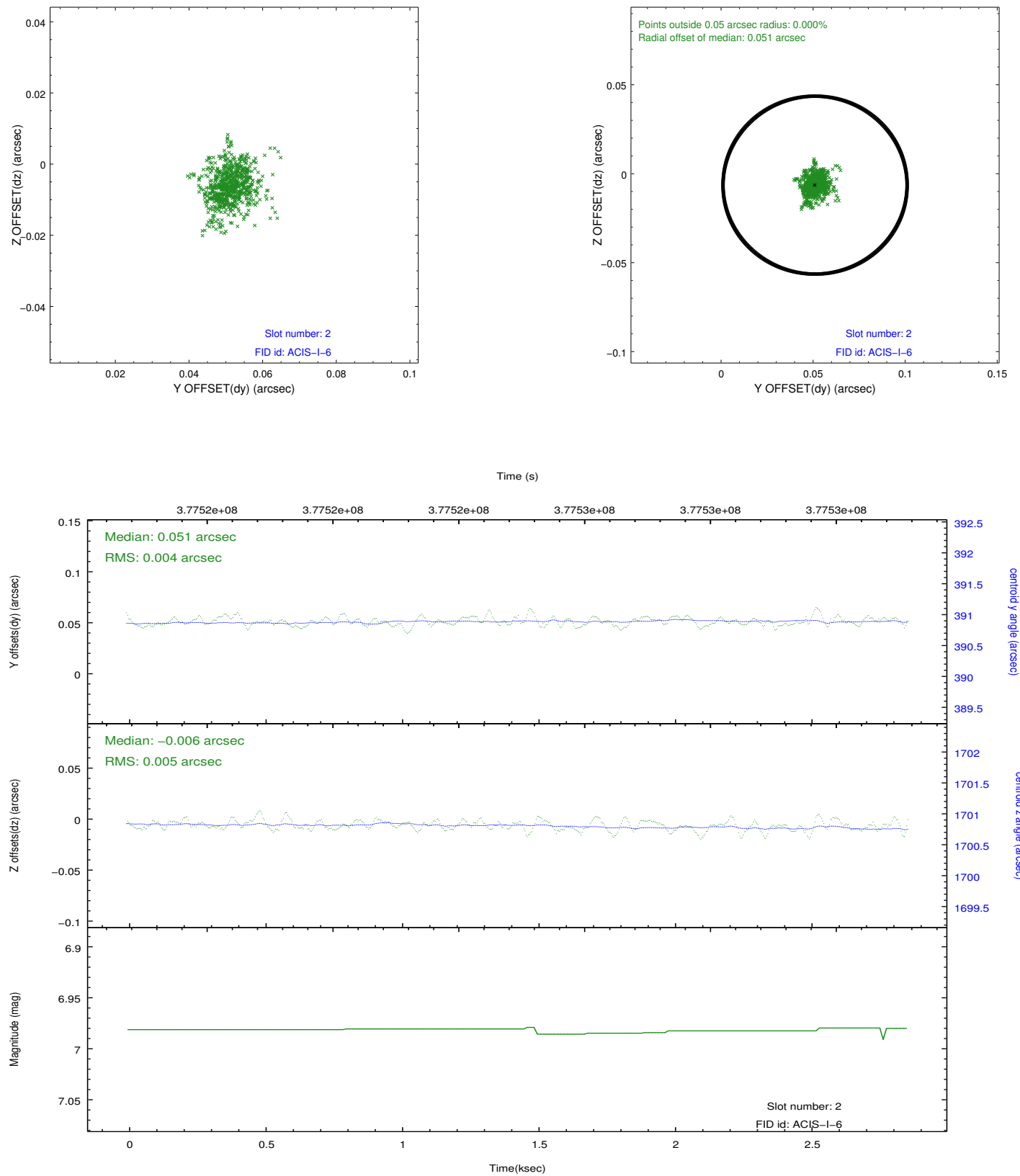
### 2.5.1 Slot 0



## 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)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.470700019002

### A.2 Comments