

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 414 - L2 Version 3

Chandra X-Ray Center

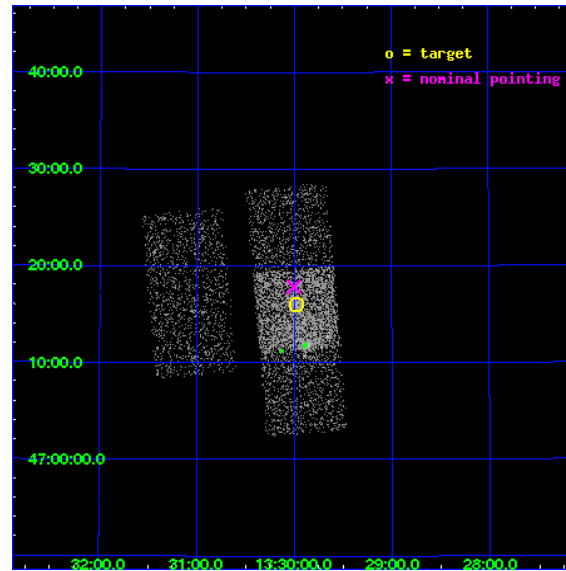
L2 Processing Date : Dec 5 2009

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1 Front

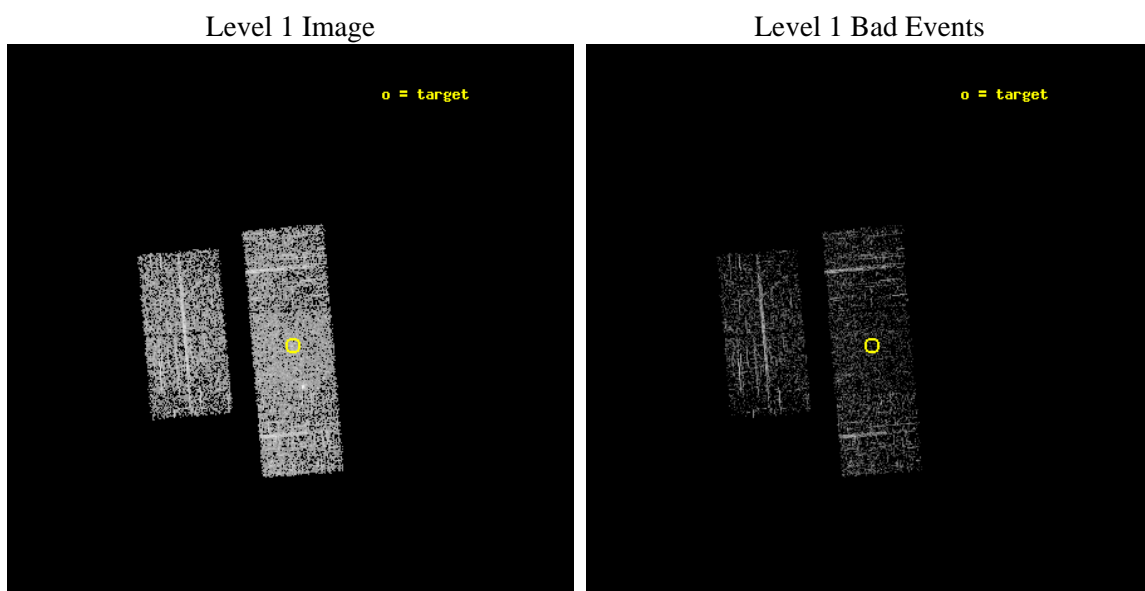
seq_num	700086	Sequence number
obs_id	414	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Prof Gordon Garmire	Principal investigator
object	NGC 5195	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.494583	Observer's specified target RA
dec_targ	47.267778	Observer's specified target Dec
ra_nom	202.50136526561	Nominal RA
dec_nom	47.297276831179	Nominal Dec
roll_nom	85.178092286944	Nominal Roll
revision	3	Processing version of data
ontime	1152.0000010729	Sum of GTIs [s]
livetime	1137.4126834082	Livetime [s]
ontime2	1152.0000010729	Sum of GTIs [s]
ontime3	1152.0000010729	Sum of GTIs [s]
ontime6	1152.0000010729	Sum of GTIs [s]
ontime7	1152.0000010729	Sum of GTIs [s]
ontime8	1152.0000010729	Sum of GTIs [s]
l2events	8509	Number of level 2 events



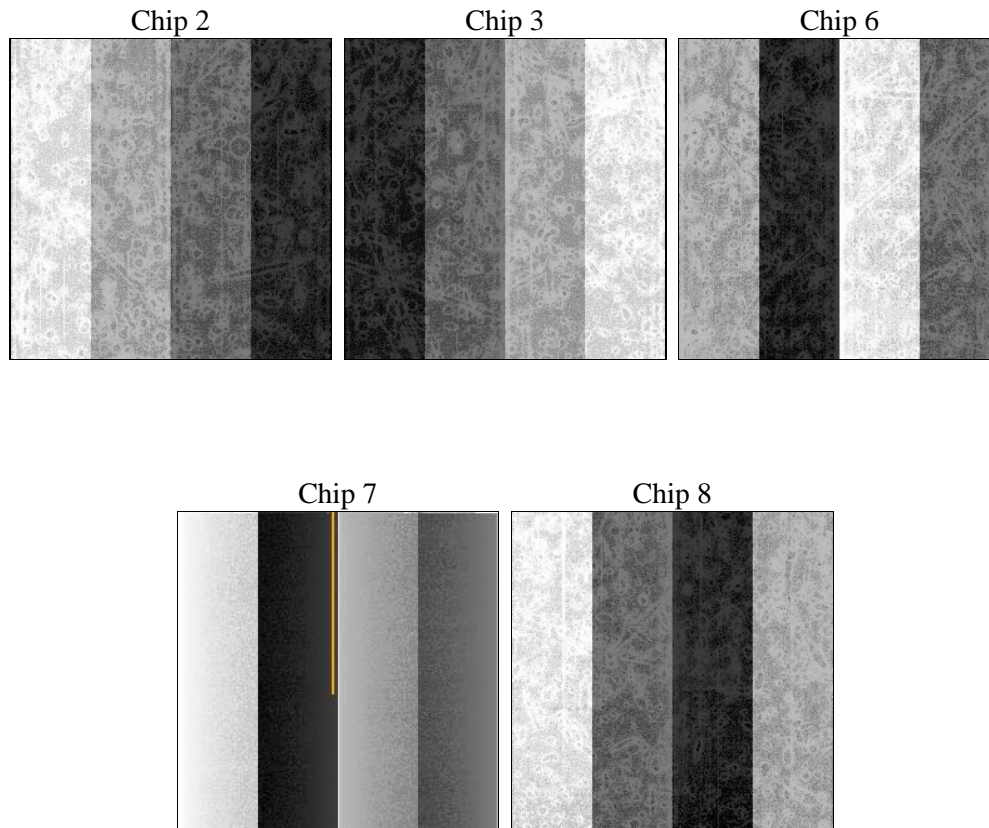
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	1152.0000010729	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	1152.0000010729	Sum of GTIs [s]
date	2009-12-05T06:43:43	Date and time of file creation	ontime3	1152.0000010729	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1152.0000010729	Sum of GTIs [s]
			ontime7	1152.0000010729	Sum of GTIs [s]
			ontime8	1152.0000010729	Sum of GTIs [s]
			l1events	50225	Number of level 1 events

2.1.4 Events

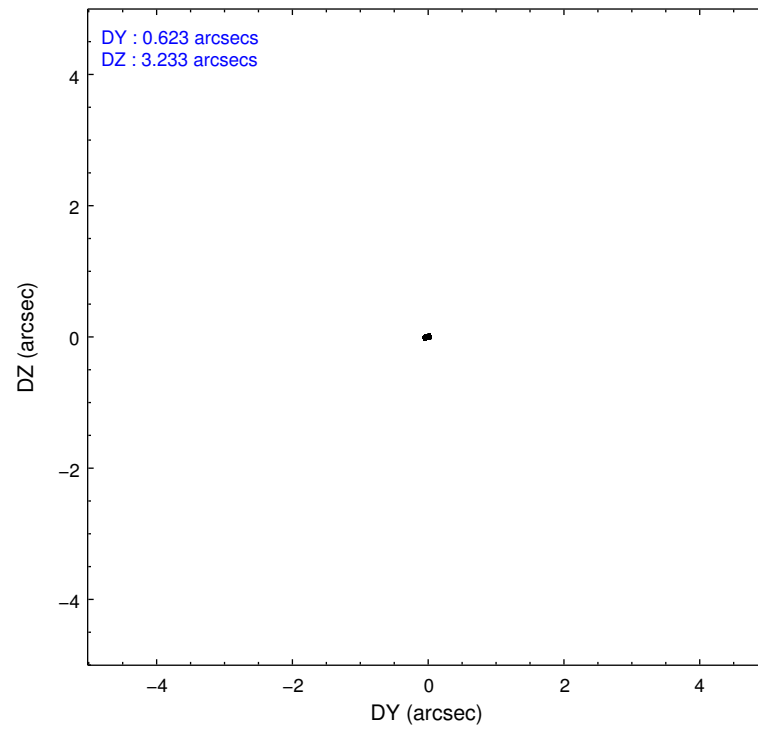
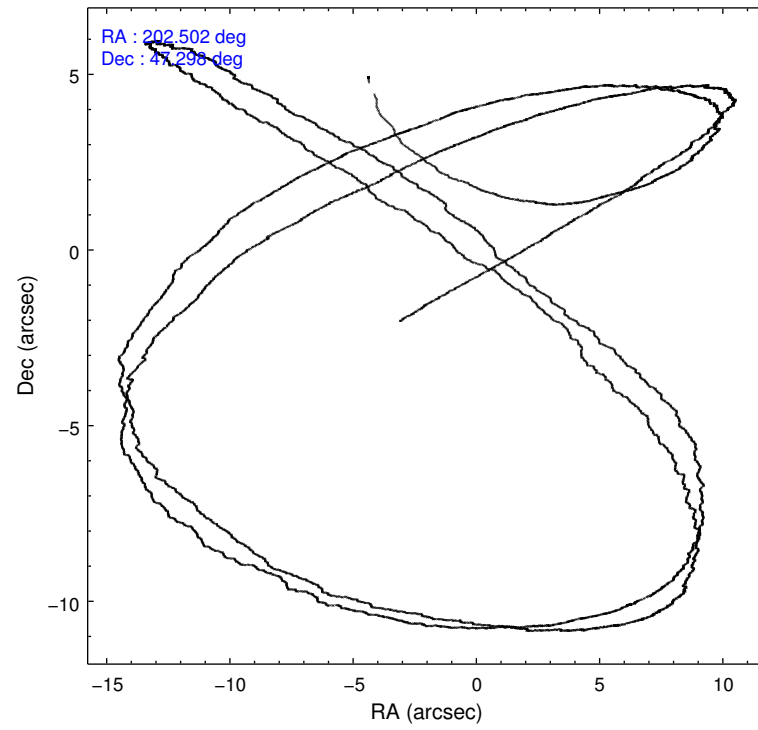
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	8993	9424	9410	11225	11173
rejected events	8146	8542	8379	6249	9082
rejected %	90%	90%	89%	55%	81%

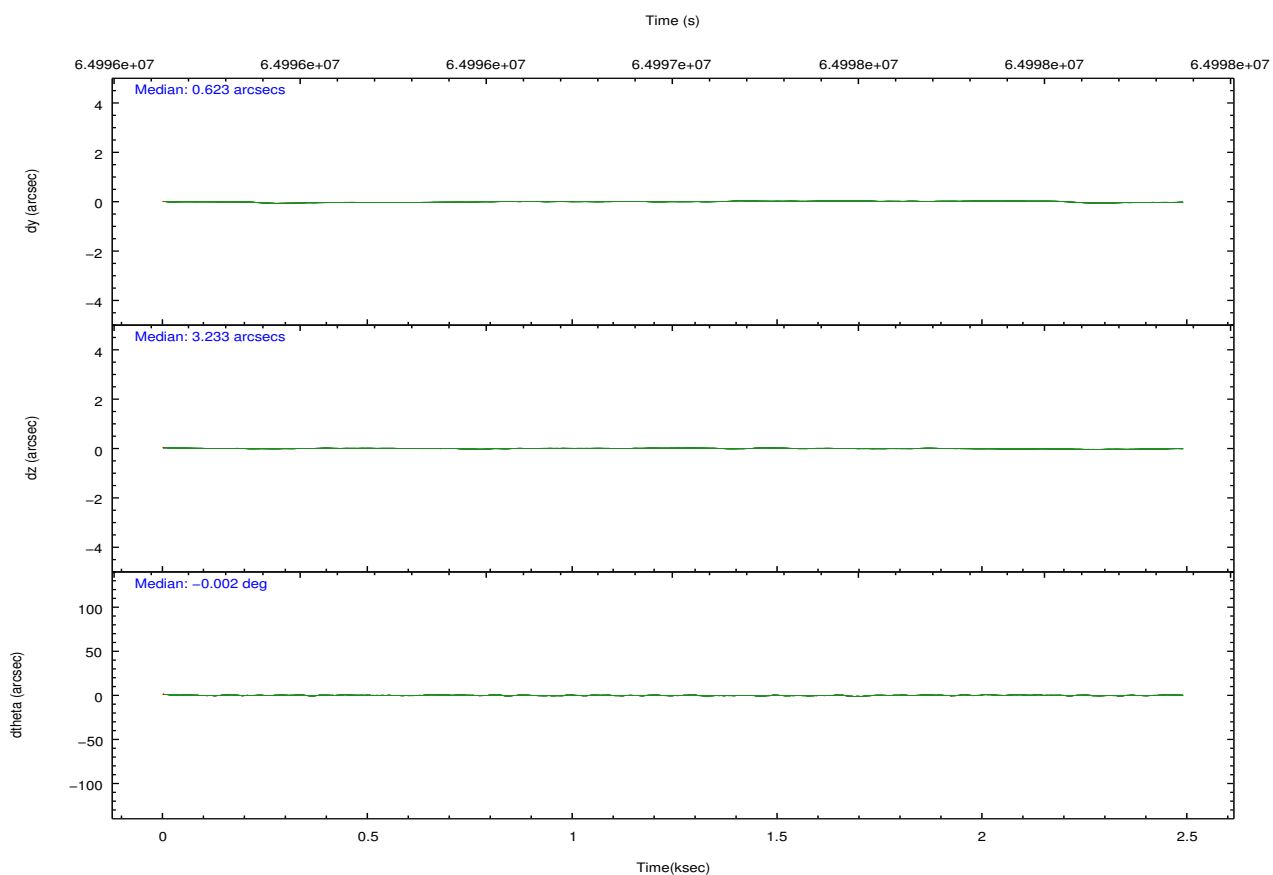
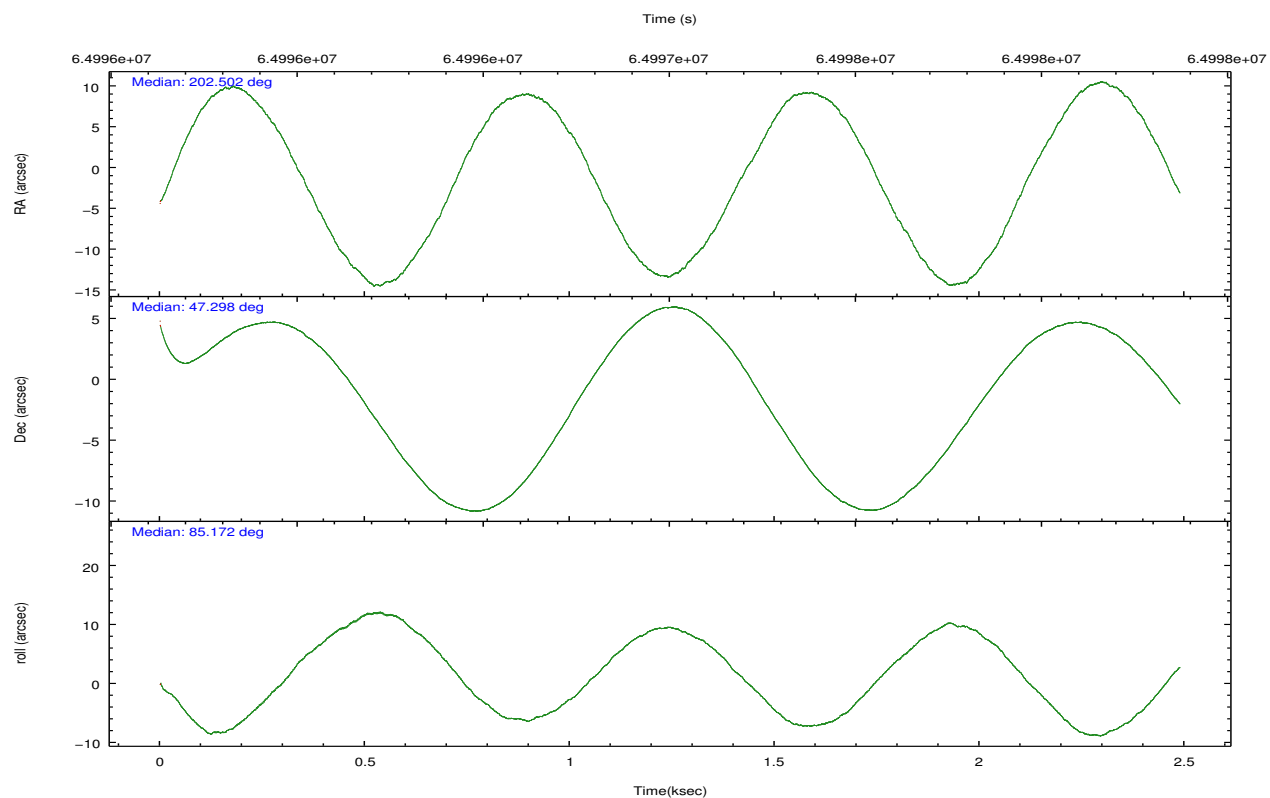
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	178	194	221	648	472
	1%	2%	2%	5%	4%
grade 1 events	3	3	3	5	4
	0%	0%	0%	0%	0%
grade 2 events	336	380	412	1111	715
	3%	4%	4%	9%	6%
grade 3 events	65	40	57	361	165
	0%	0%	0%	3%	1%
grade 4 events	50	65	59	323	128
	0%	0%	0%	2%	1%
grade 5 events	169	196	202	623	252
	1%	2%	2%	5%	2%
grade 6 events	220	210	284	2546	613
	2%	2%	3%	22%	5%
grade 7 events	7972	8336	8172	5608	8824
	88%	88%	86%	49%	78%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	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	202.518310	202.5013652656106	Subarray requested	NONE	NONE
Pointing Dec	47.272054	47.29727683117859	Alternating exposures requested	N	N
Pointing Roll	85.009013	85.17809228694429	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	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	64996247.184000	64995193.692714			
Observation start date	2000-01-23T06:29:43	2000-01-23T06:13:13			
Observation end time	64998247.184000	64998951.855351			
Observation end date	2000-01-23T07:03:03	2000-01-23T07:15:51			
Read mode	TIMED	TIMED			

2.3 Aspect



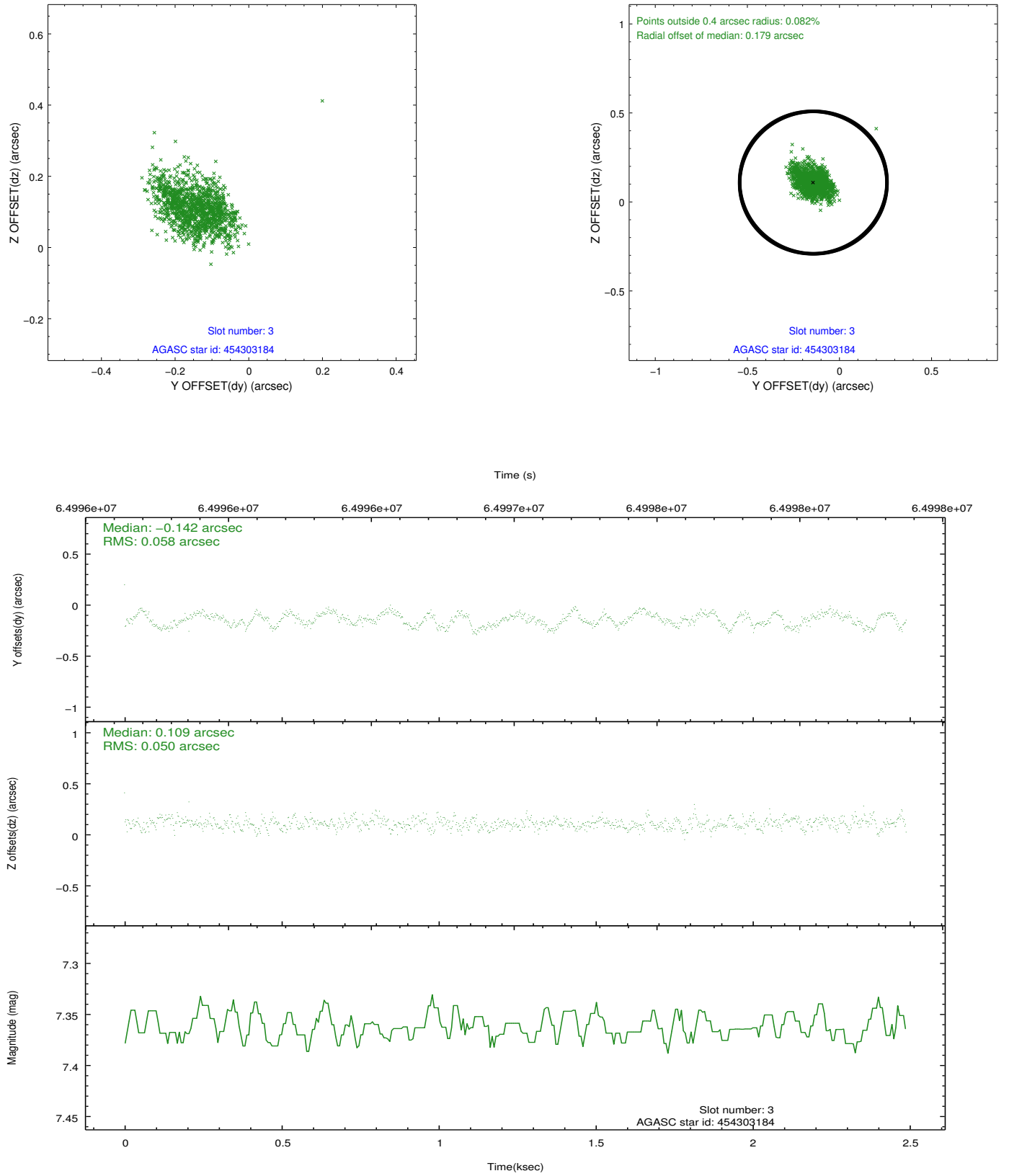


Slot Statistics

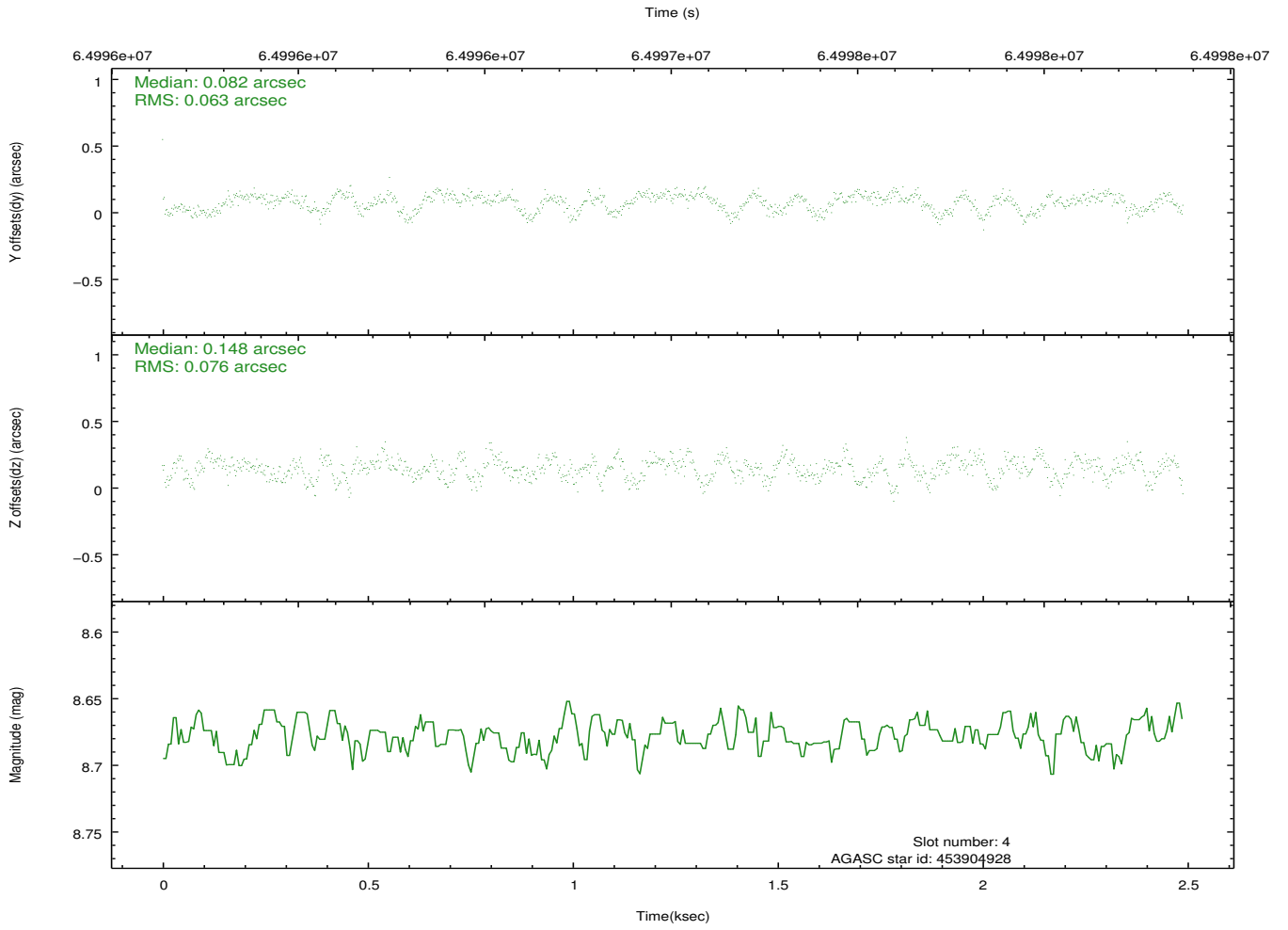
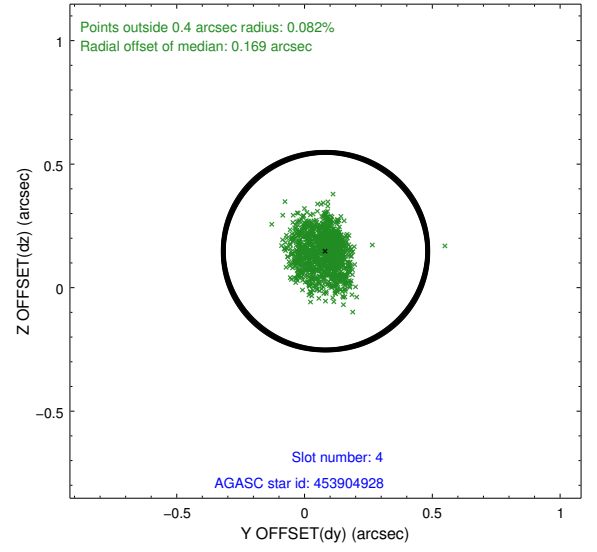
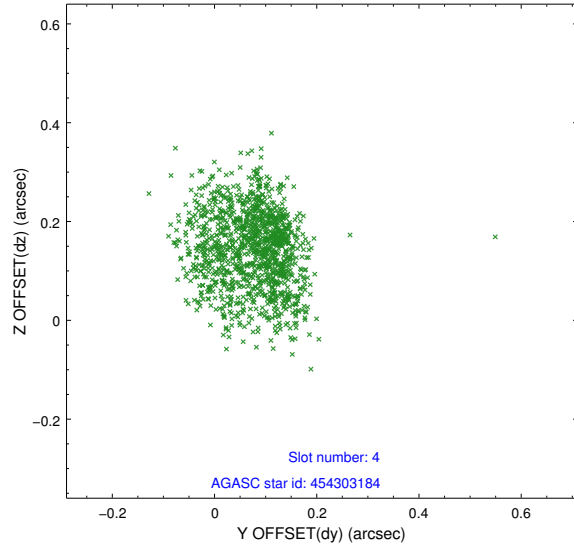
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	608	-0.008	-0.026	0.007	0.012	0.000000	0.000000	-753.26	-1724.30
1	FID	ACIS-S-4	7.21	608	0.038	0.011	0.006	0.011	0.000000	0.000000	2158.96	181.46
2	FID	ACIS-S-5	7.24	608	-0.061	0.024	0.007	0.013	0.000000	0.000000	-1802.74	178.22
3	GUIDE	454303184	7.36	1215	-0.142	0.109	0.080	0.131	203.304787	47.758729	1920.05	-1742.33
4	GUIDE	453904928	8.68	1215	0.082	0.148	0.106	0.165	203.391671	46.796779	-1504.03	-2293.25
5	GUIDE	453511800	9.18	1215	0.112	-0.083	0.109	0.168	201.825327	46.820165	-1763.53	1557.95
6	GUIDE	454303504	9.72	1214	0.012	0.056	0.105	0.175	202.757470	47.708424	1614.27	-438.63
7	GUIDE	453511320	9.75	1211	-0.054	-0.231	0.115	0.189	201.652270	47.423457	371.61	2149.52

2.4 Star Slots

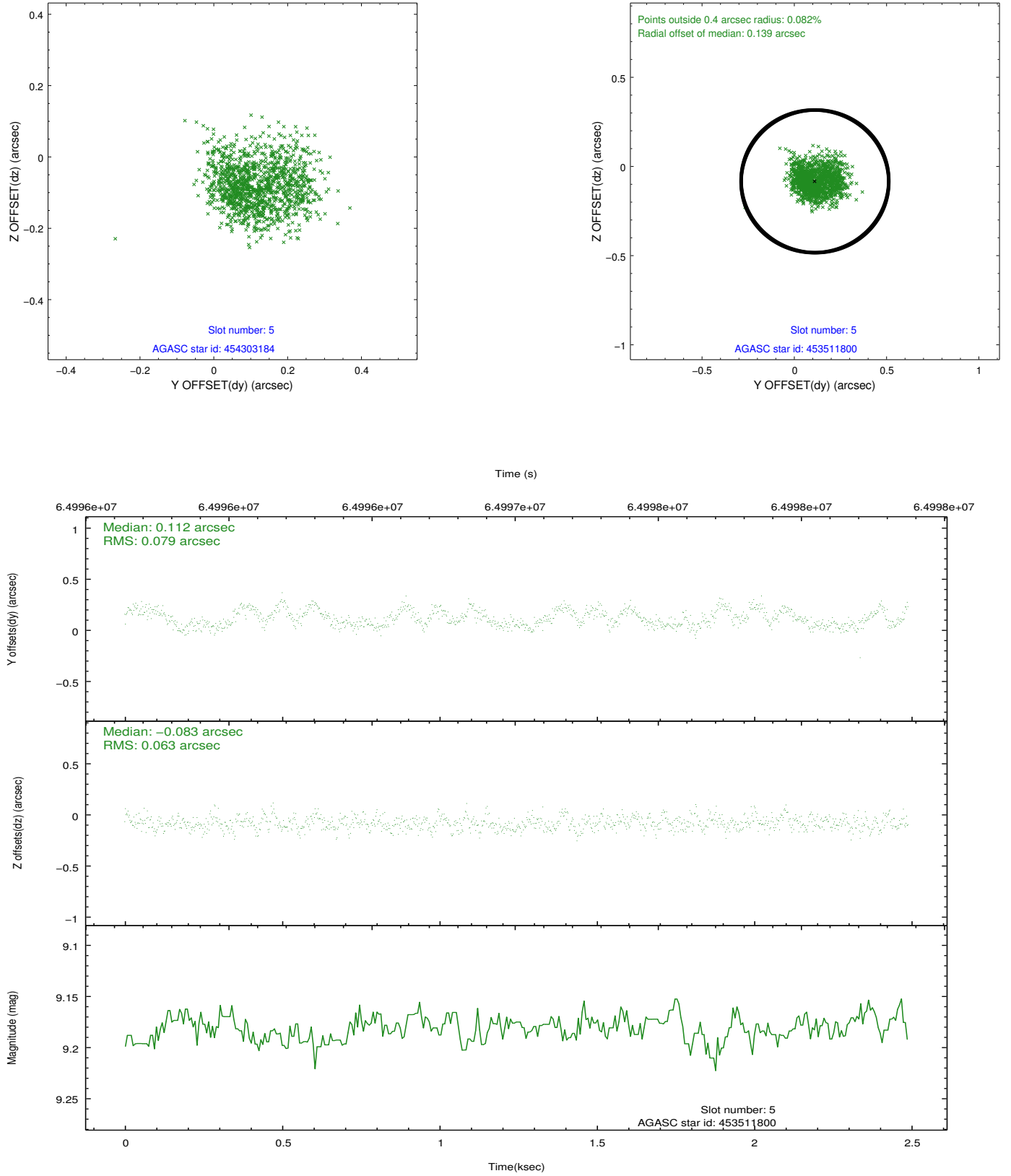
2.4.1 Slot 3



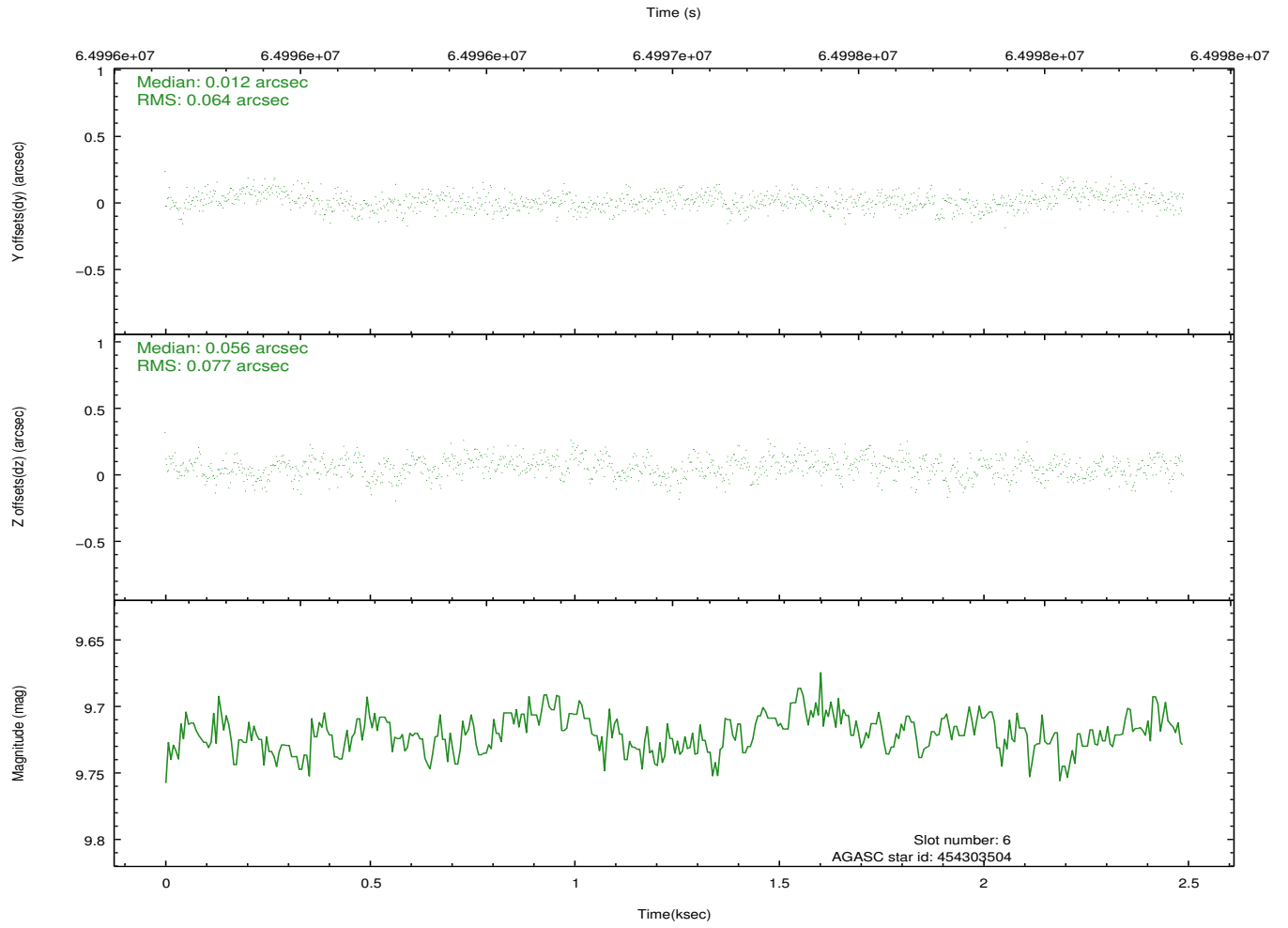
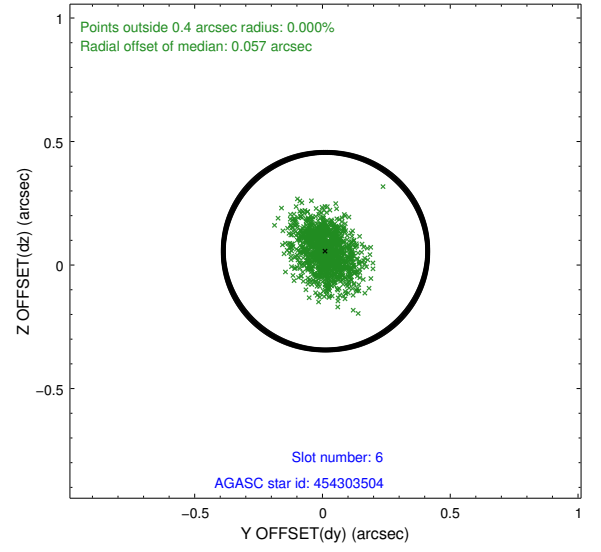
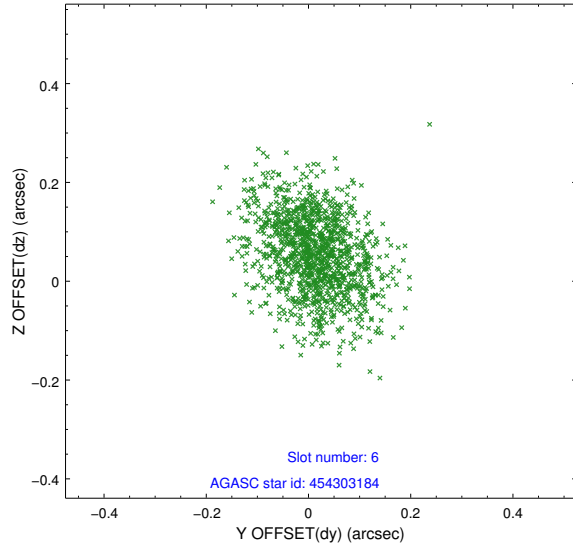
2.4.2 Slot 4



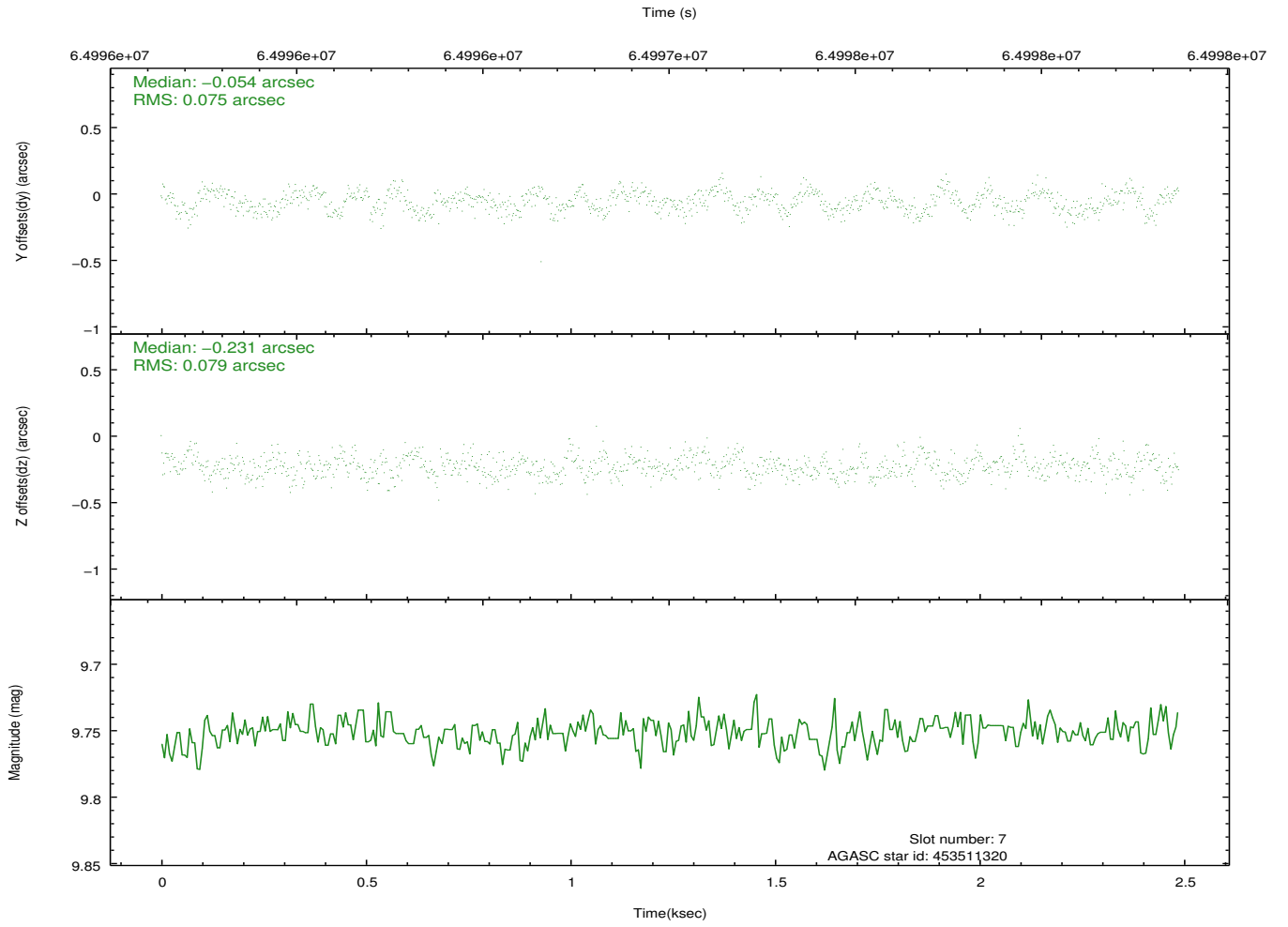
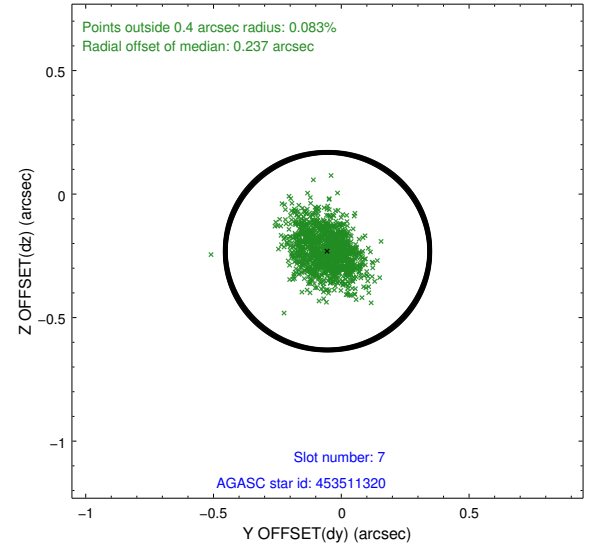
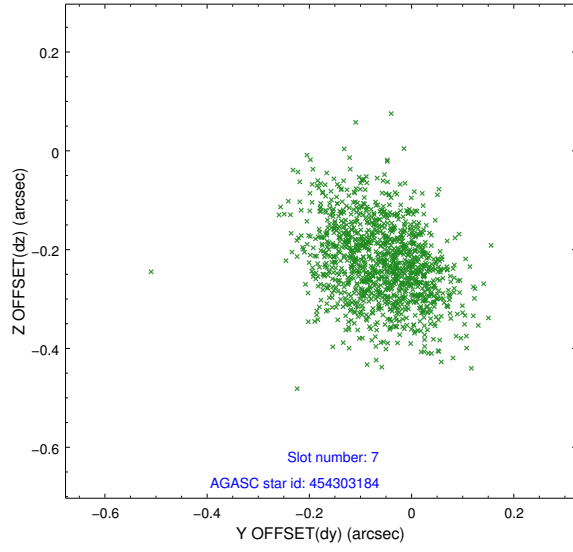
2.4.3 Slot 5



2.4.4 Slot 6

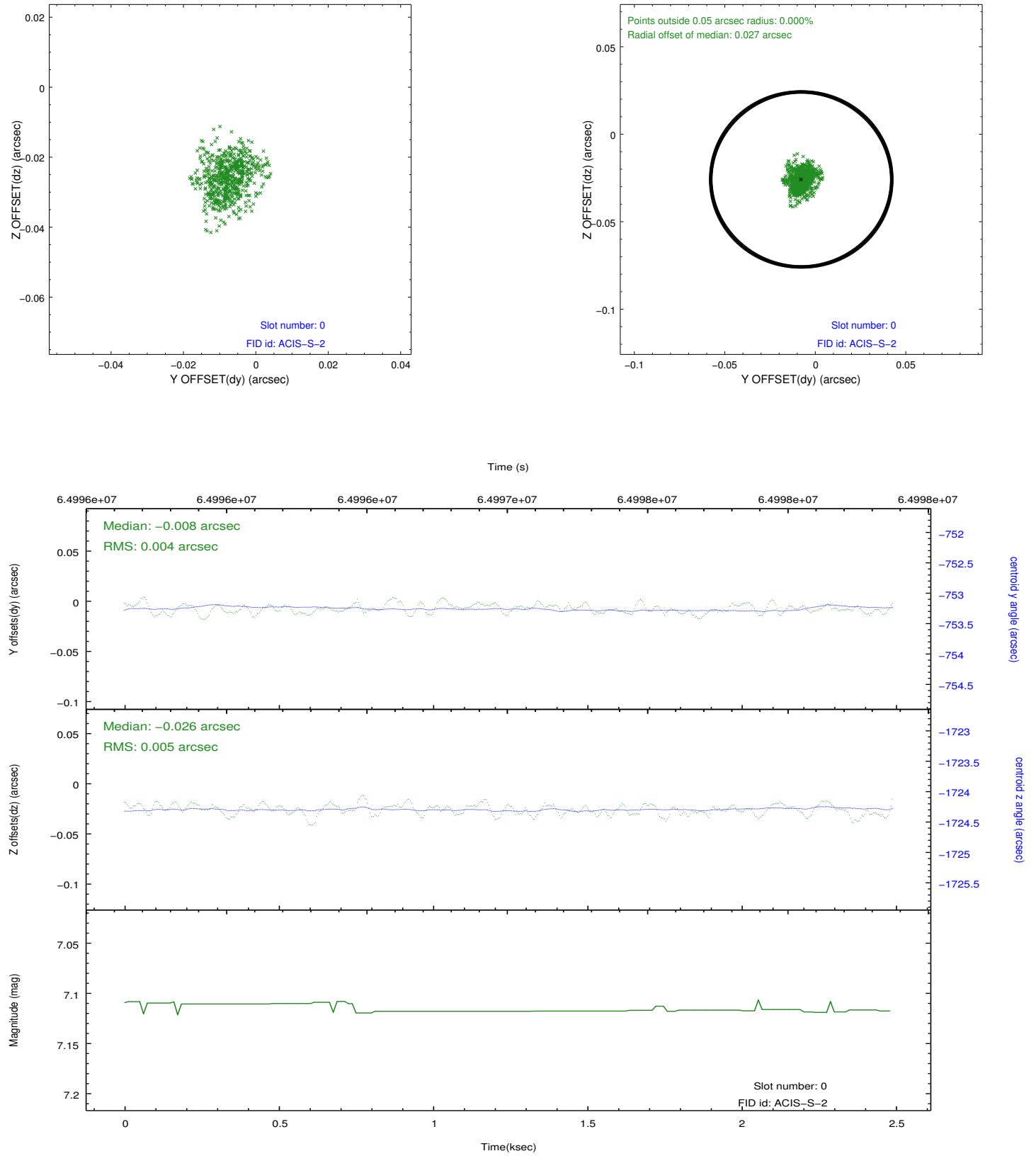


2.4.5 Slot 7

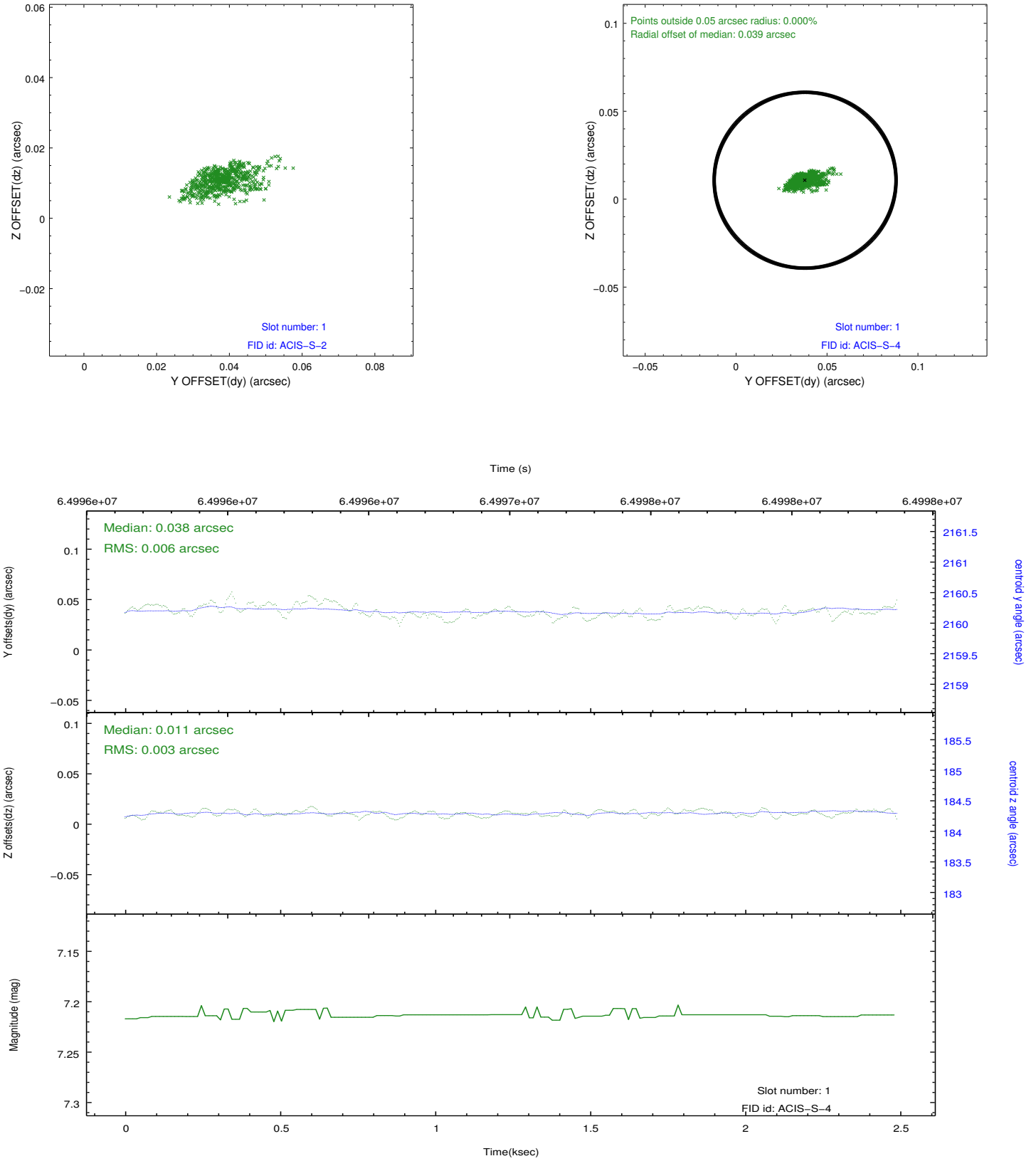


2.5 FID Slots

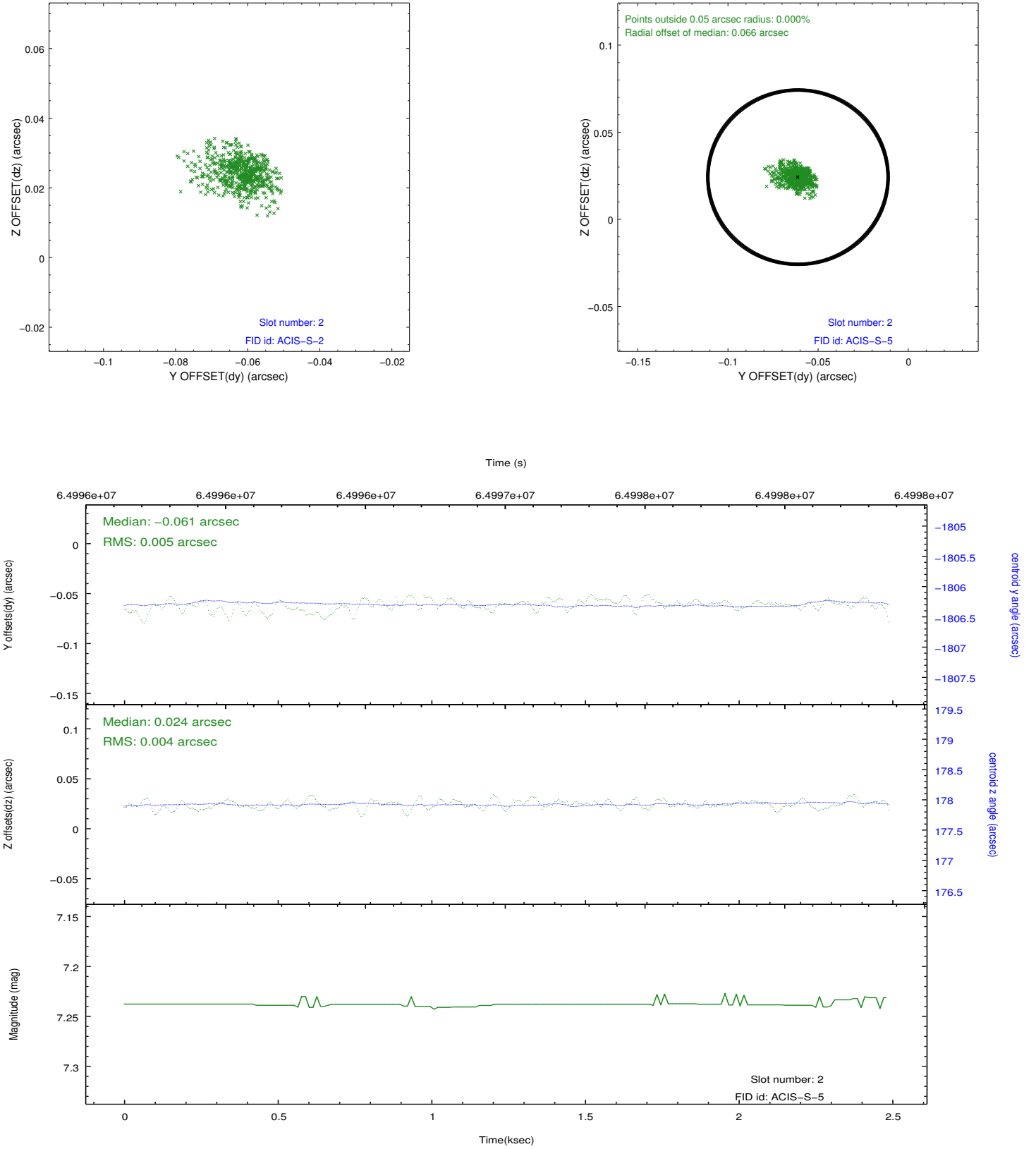
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

6.84 arcmin



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.152

A.2 Comments

Focal plane temperature is approximately -110 C degrees during this observation. ACIS has not been calibrated at this temperature, because the focal plan temperature of -119.7 C degrees became the standard shortly

after the start of the mission. Both front and back illuminated chips are affected.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend

on the most accurate spectral response (ie: fitting line-rich spectra) may

notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

This reprocessing

of the data applies no CTI correction because none is available for this temperature.