

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 388 - L2 Version 4

Chandra X-Ray Center

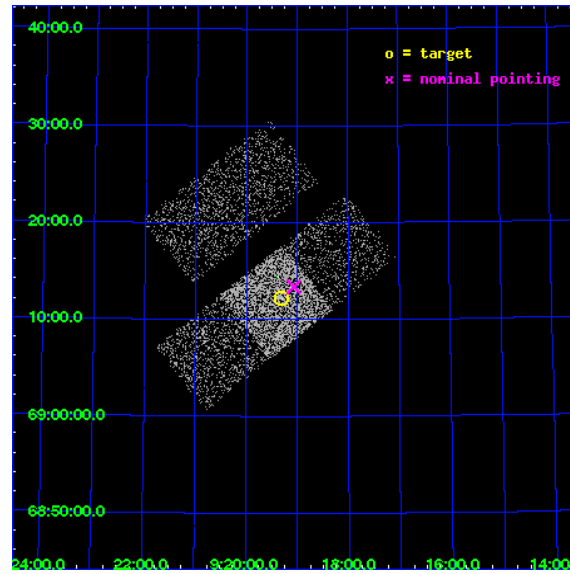
L2 Processing Date : Dec 2 2009

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1 Front

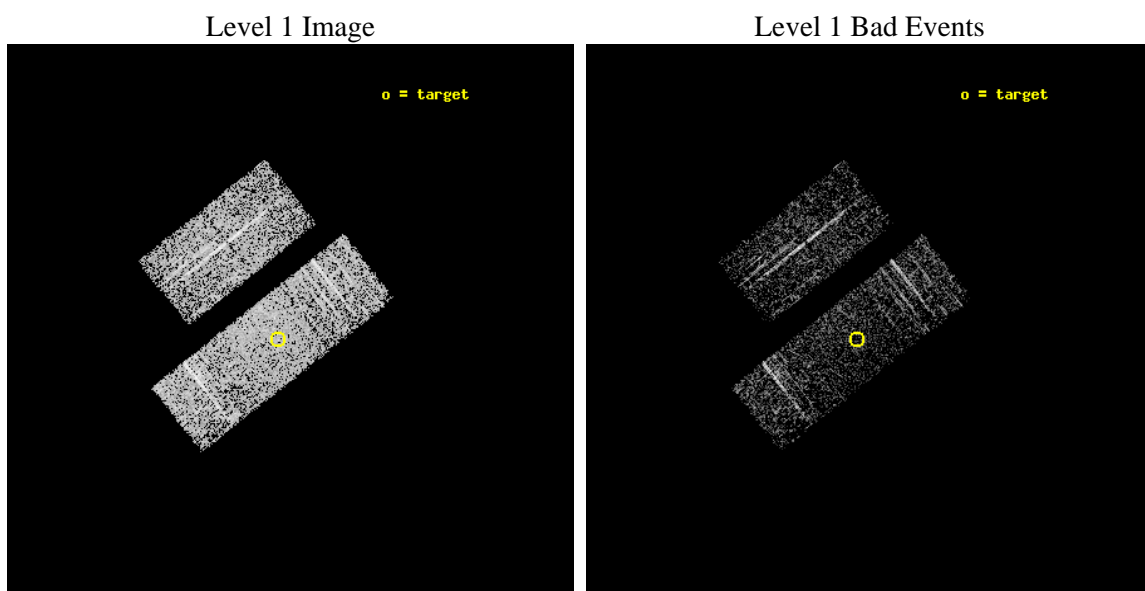
seq_num	700060	Sequence number
obs_id	388	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Prof Gordon Garmire	Principal investigator
object	NGC 2787	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.82875	Observer's specified target RA
dec_targ	69.202917	Observer's specified target Dec
ra_nom	139.76677691257	Nominal RA
dec_nom	69.223070037068	Nominal Dec
roll_nom	141.56473061661	Nominal Roll
revision	4	Processing version of data
ontime	1163.7836326286	Sum of GTIs [s]
livetime	1149.0471035259	Livetime [s]
ontime2	1163.7425926253	Sum of GTIs [s]
ontime3	1163.6605126262	Sum of GTIs [s]
ontime6	1163.7015526295	Sum of GTIs [s]
ontime7	1163.7836326286	Sum of GTIs [s]
ontime8	1163.6194726303	Sum of GTIs [s]
l2events	7486	Number of level 2 events



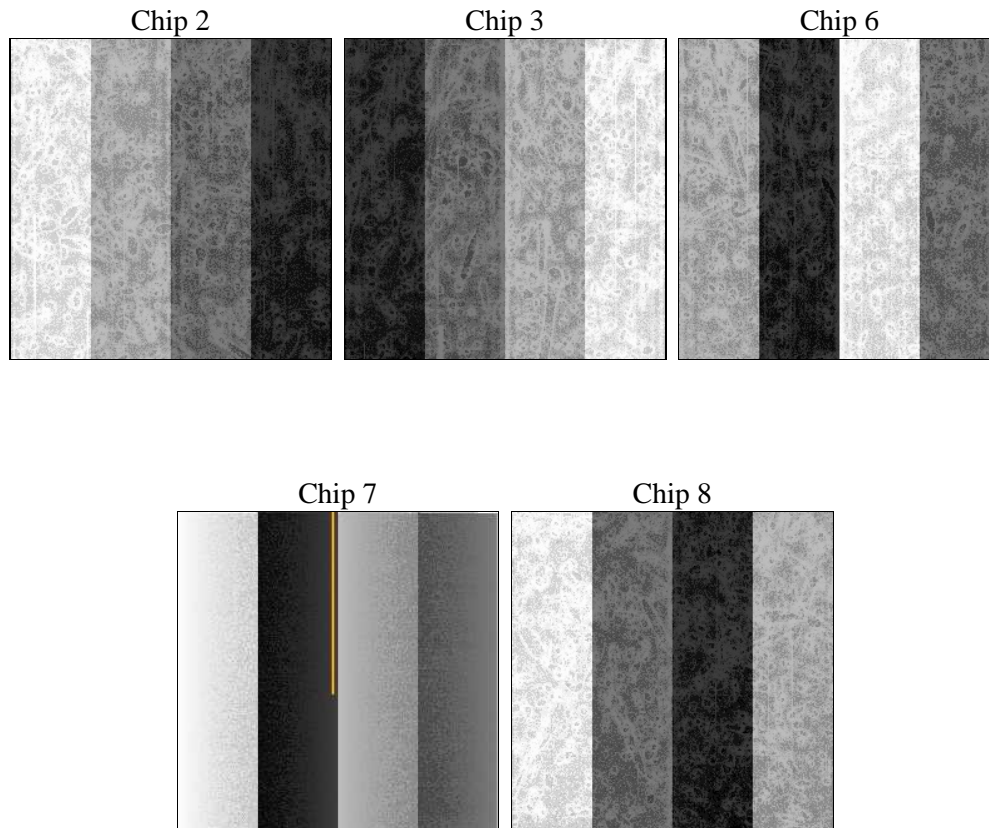
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	1163.7836326286	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	1163.7425926253	Sum of GTIs [s]
date	2009-12-02T06:16:10	Date and time of file creation	ontime3	1163.6605126262	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1163.7015526295	Sum of GTIs [s]
			ontime7	1163.7836326286	Sum of GTIs [s]
			ontime8	1163.6194726303	Sum of GTIs [s]
			l1events	50587	Number of level 1 events

2.1.4 Events

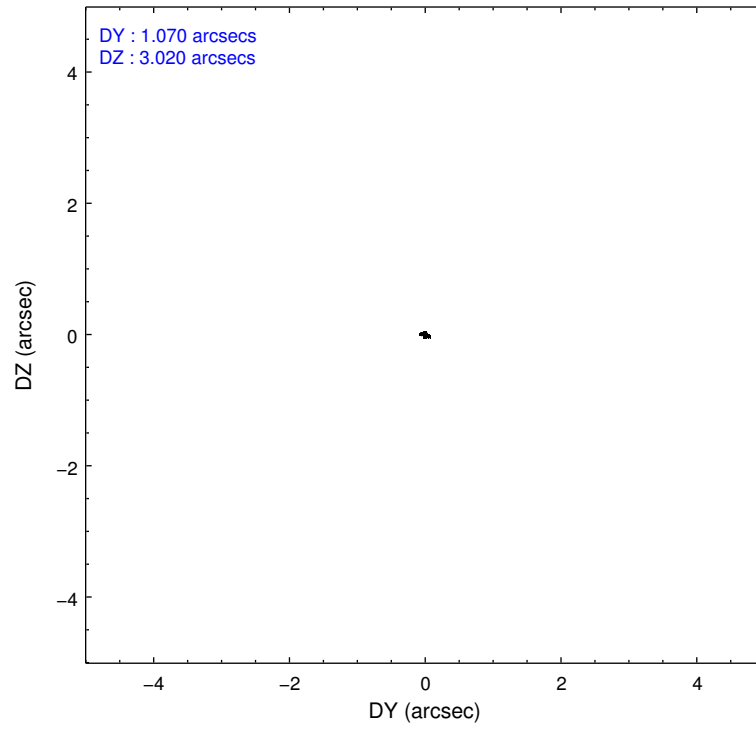
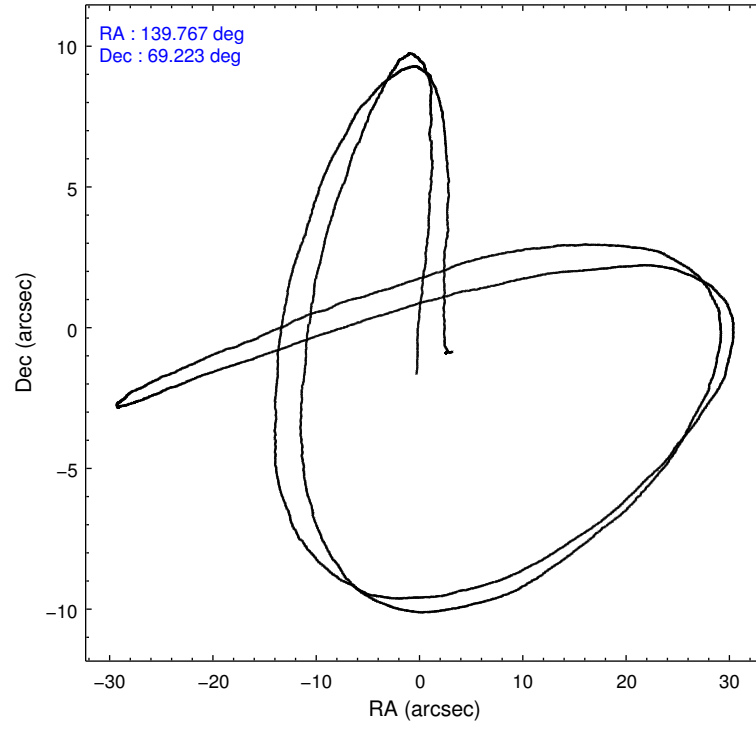
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	8903	9635	10325	10499	11225
rejected events	8050	8668	9449	6481	9312
rejected %	90%	89%	91%	61%	82%

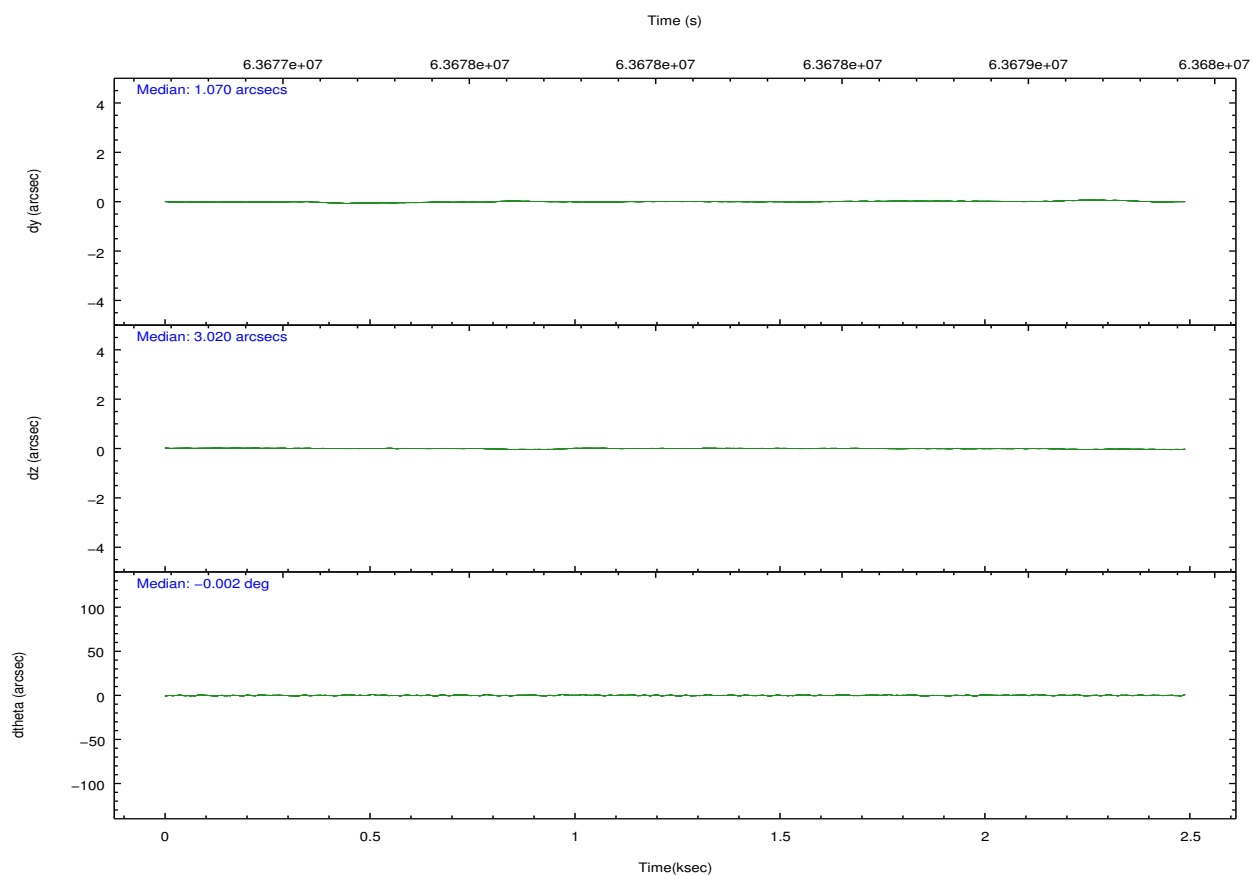
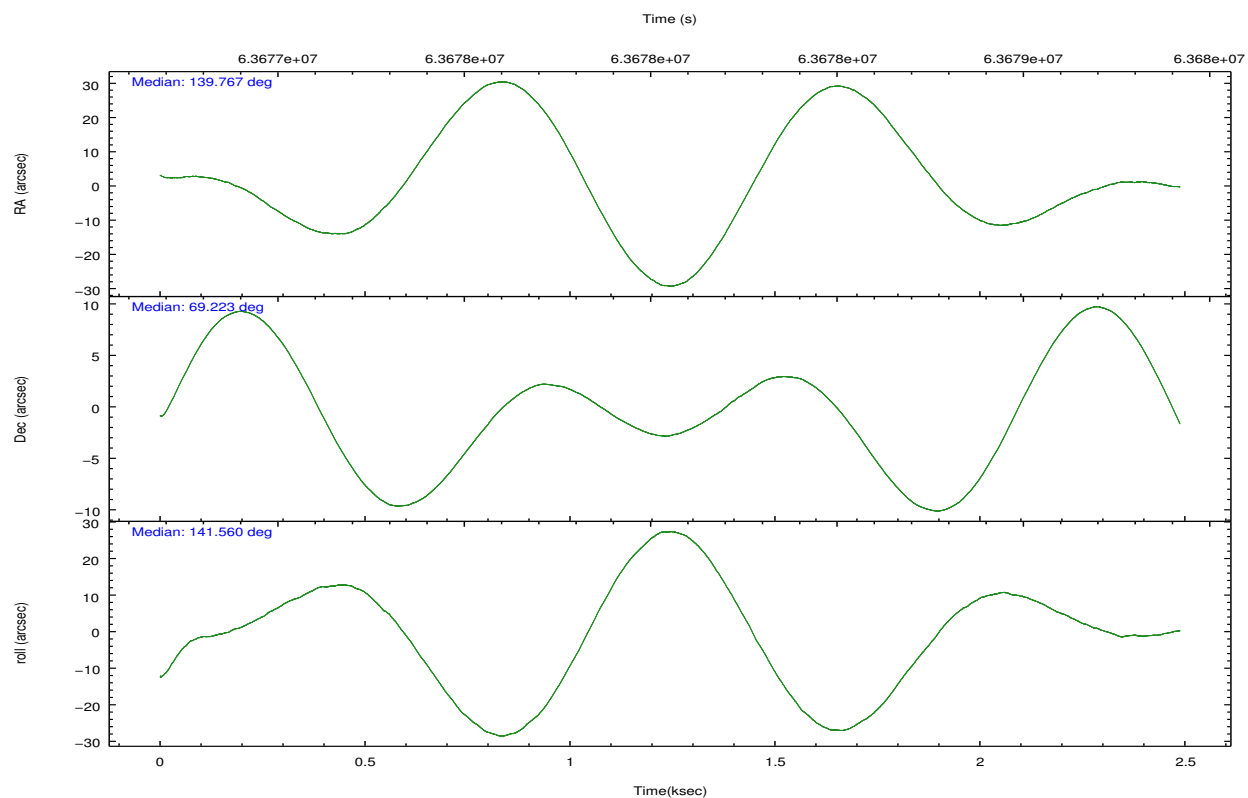
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	169	203	156	258	444
	1%	2%	1%	2%	3%
grade 1 events	1	0	1	6	1
	0%	0%	0%	0%	0%
grade 2 events	373	394	357	841	593
	4%	4%	3%	8%	5%
grade 3 events	44	71	55	222	151
	0%	0%	0%	2%	1%
grade 4 events	56	51	55	247	139
	0%	0%	0%	2%	1%
grade 5 events	188	189	207	612	309
	2%	1%	2%	5%	2%
grade 6 events	214	252	258	2476	589
	2%	2%	2%	23%	5%
grade 7 events	7858	8475	9236	5837	8999
	88%	87%	89%	55%	80%

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	139.843848	139.7667769125745	Subarray requested	NONE	NONE
Pointing Dec	69.218688	69.22307003706781	Alternating exposures requested	N	N
Pointing Roll	141.336027	141.5647306166057	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	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	63677297.184000	63676477.33231			
Observation start date	2000-01-08T00:07:13	2000-01-07T23:54:37			
Observation end time	63679297.184000	63679902.882435			
Observation end date	2000-01-08T00:40:33	2000-01-08T00:51:42			
Read mode	TIMED	TIMED			

2.3 Aspect



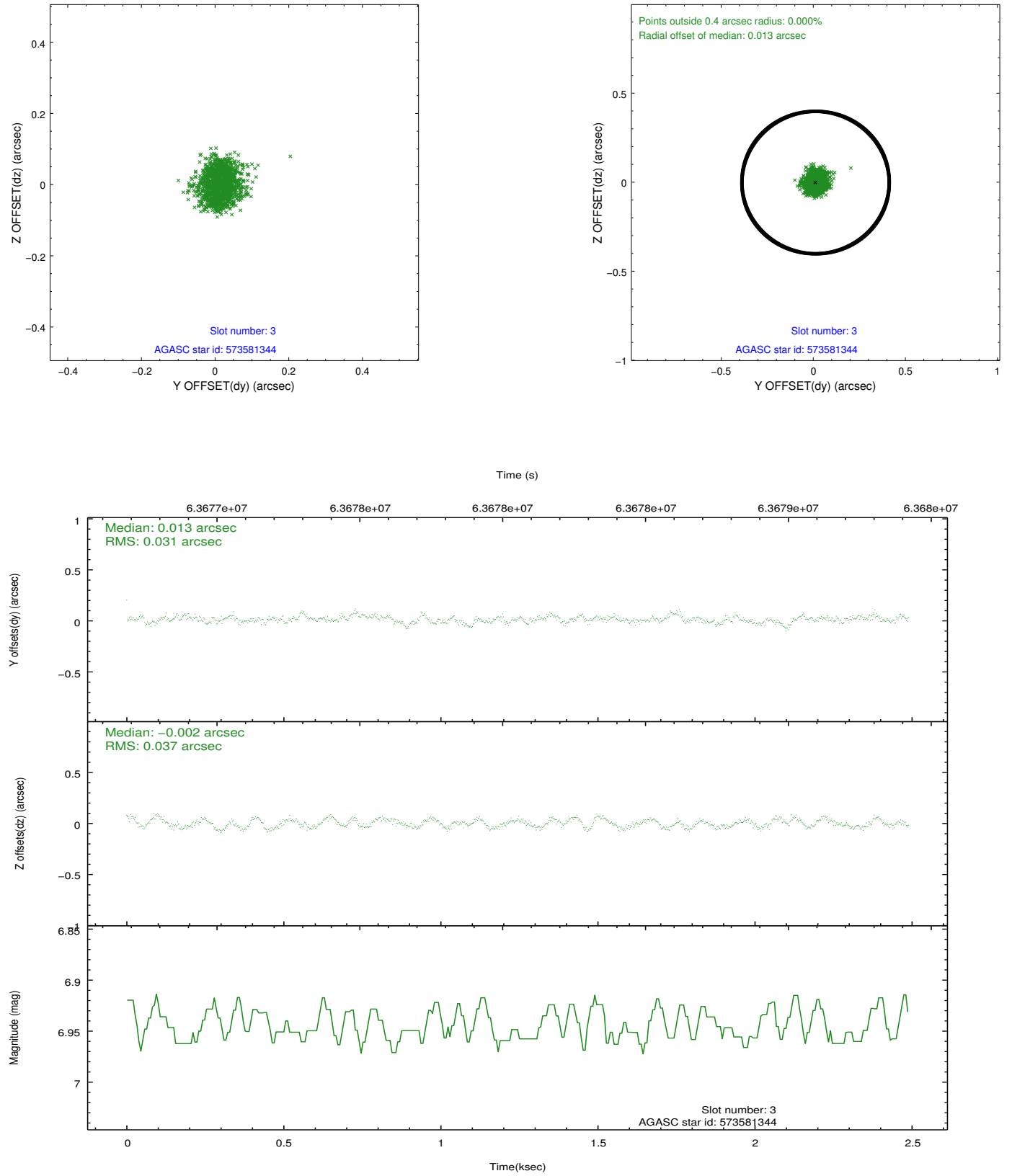


Slot Statistics

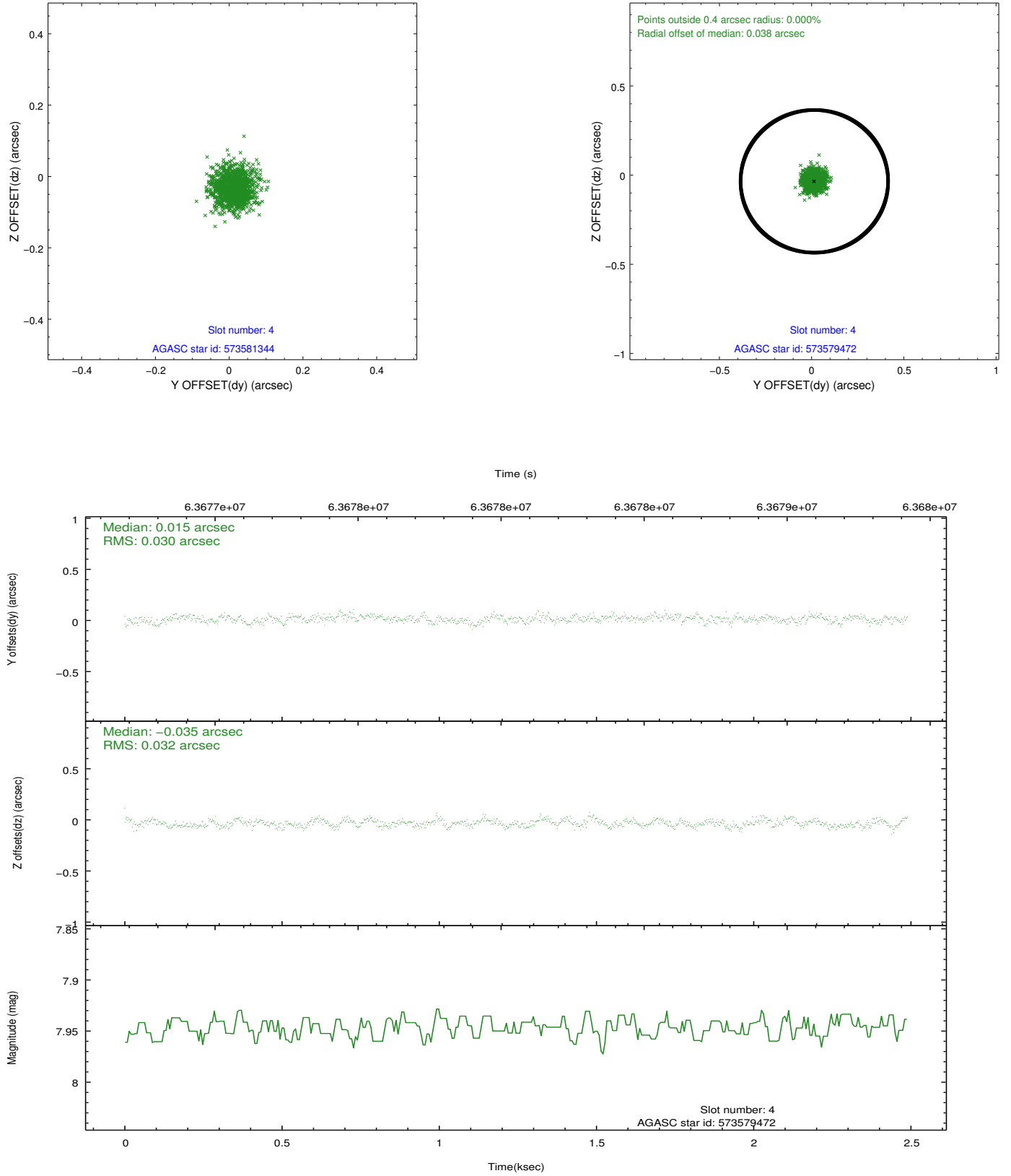
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	1215	0.013	-0.060	0.007	0.011	0.000000	0.000000	59.50	-1853.14
1	FID	ACIS-S-4	7.22	1215	-0.004	0.023	0.006	0.010	0.000000	0.000000	2159.74	183.06
2	FID	ACIS-S-5	7.24	1215	-0.037	0.047	0.006	0.010	0.000000	0.000000	-1804.96	178.37
3	GUIDE	573581344	6.95	1215	0.013	-0.002	0.053	0.080	140.819857	69.353253	-658.87	-1158.91
4	GUIDE	573579472	7.95	1215	0.015	-0.035	0.046	0.075	139.645675	69.091501	-88.01	516.36
5	GUIDE	573577312	8.06	1215	-0.016	0.056	0.047	0.078	137.496755	69.151142	2230.98	2025.04
6	GUIDE	573580824	8.50	1215	0.033	-0.033	0.054	0.090	139.317201	69.093462	249.80	775.15
7	GUIDE	573583384	9.41	1213	-0.043	0.010	0.096	0.150	142.247635	69.383402	-1970.98	-2411.33

2.4 Star Slots

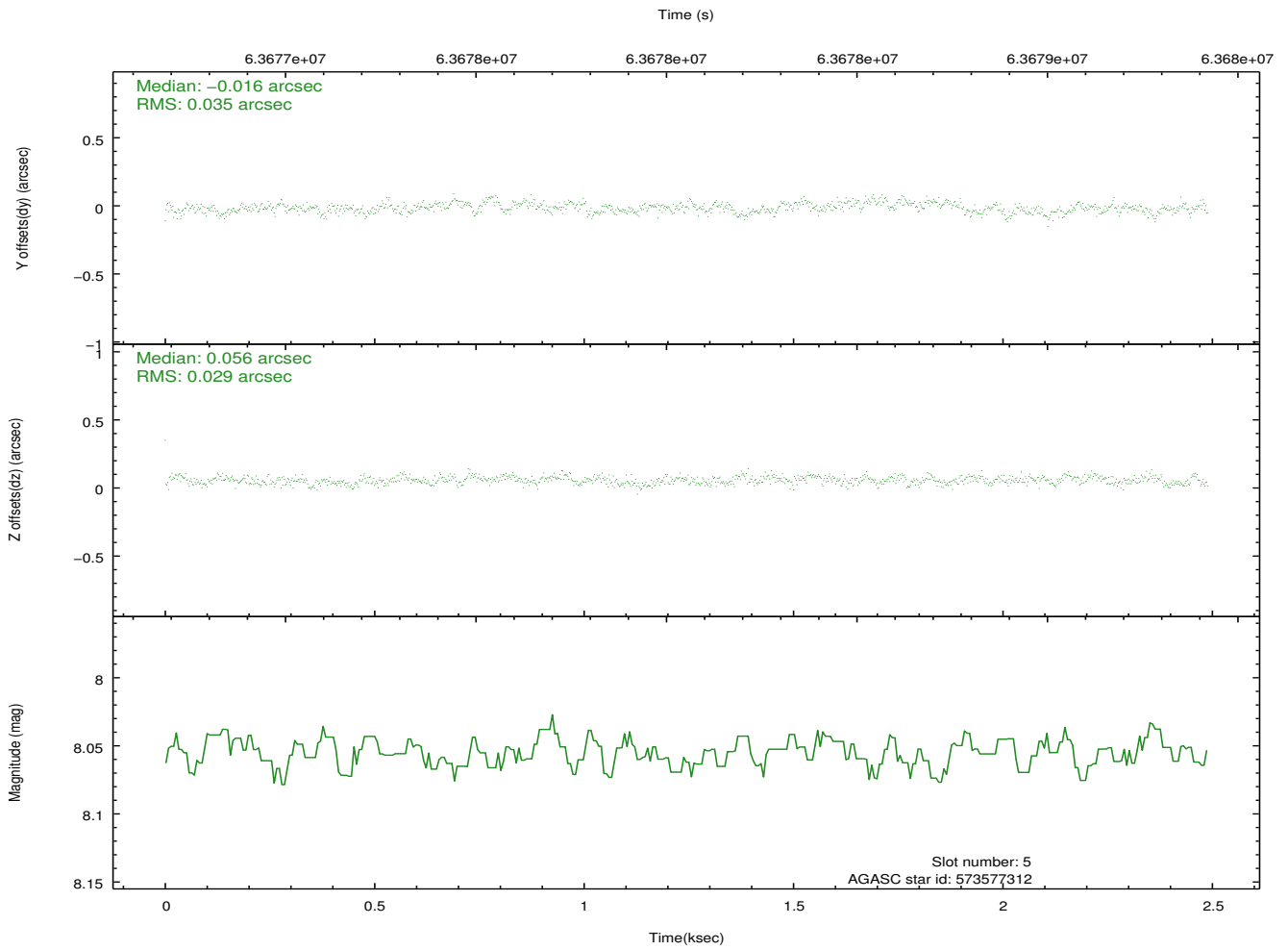
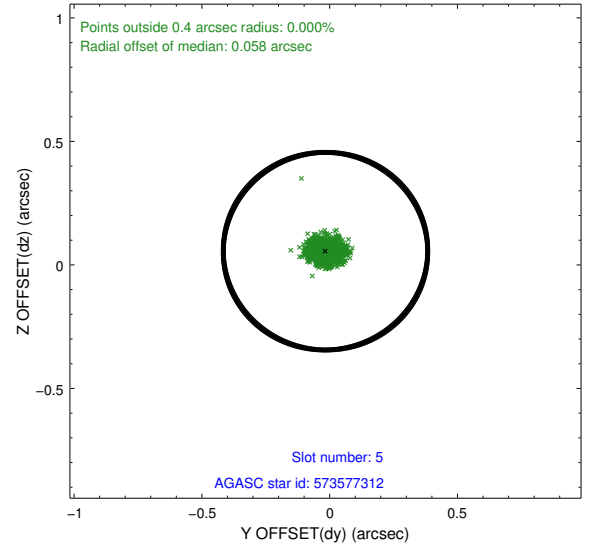
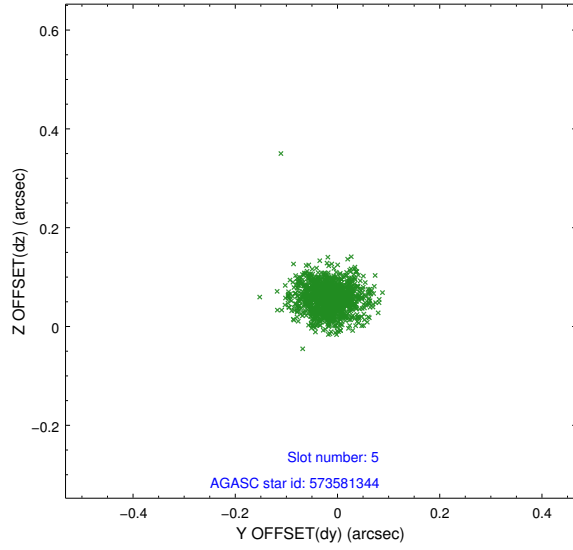
2.4.1 Slot 3



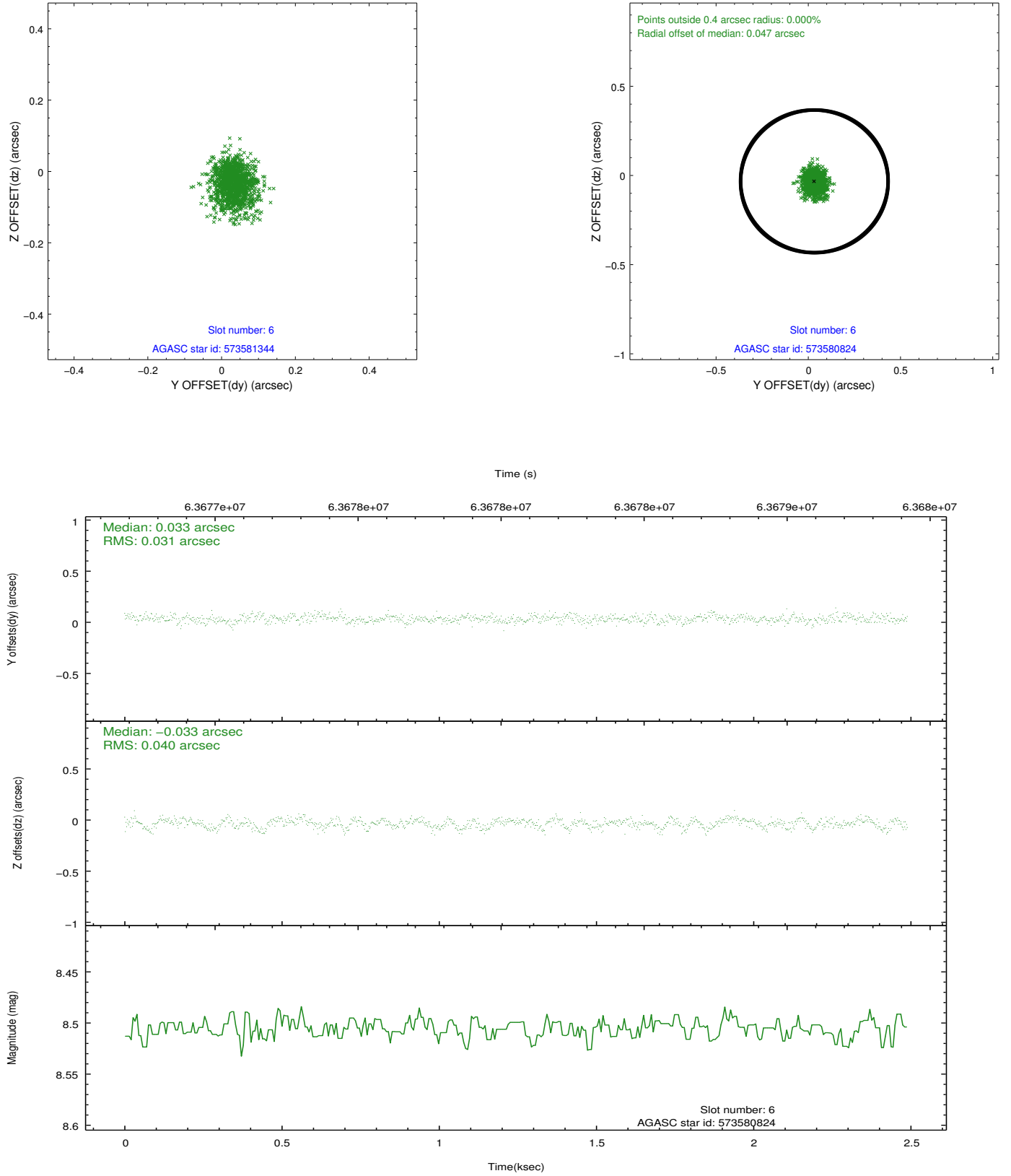
2.4.2 Slot 4



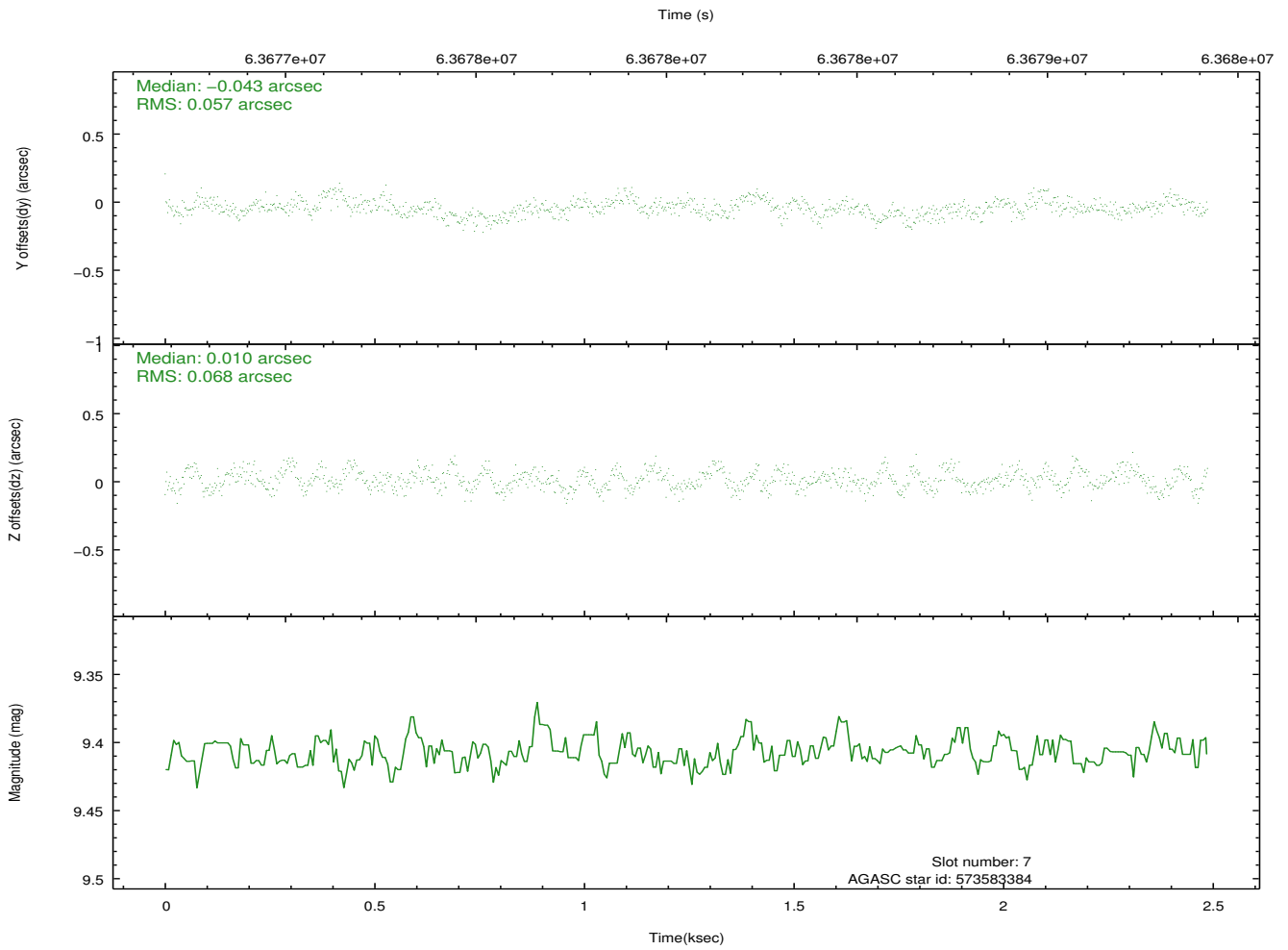
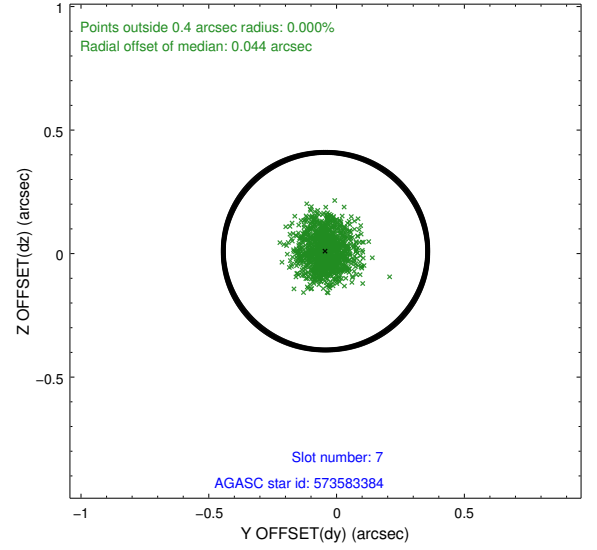
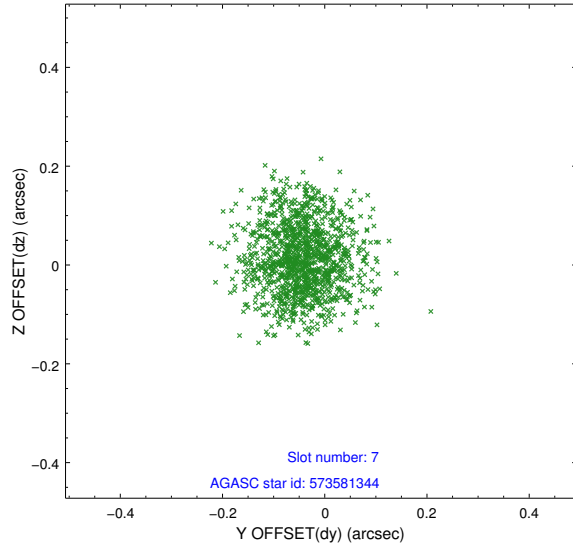
2.4.3 Slot 5



2.4.4 Slot 6

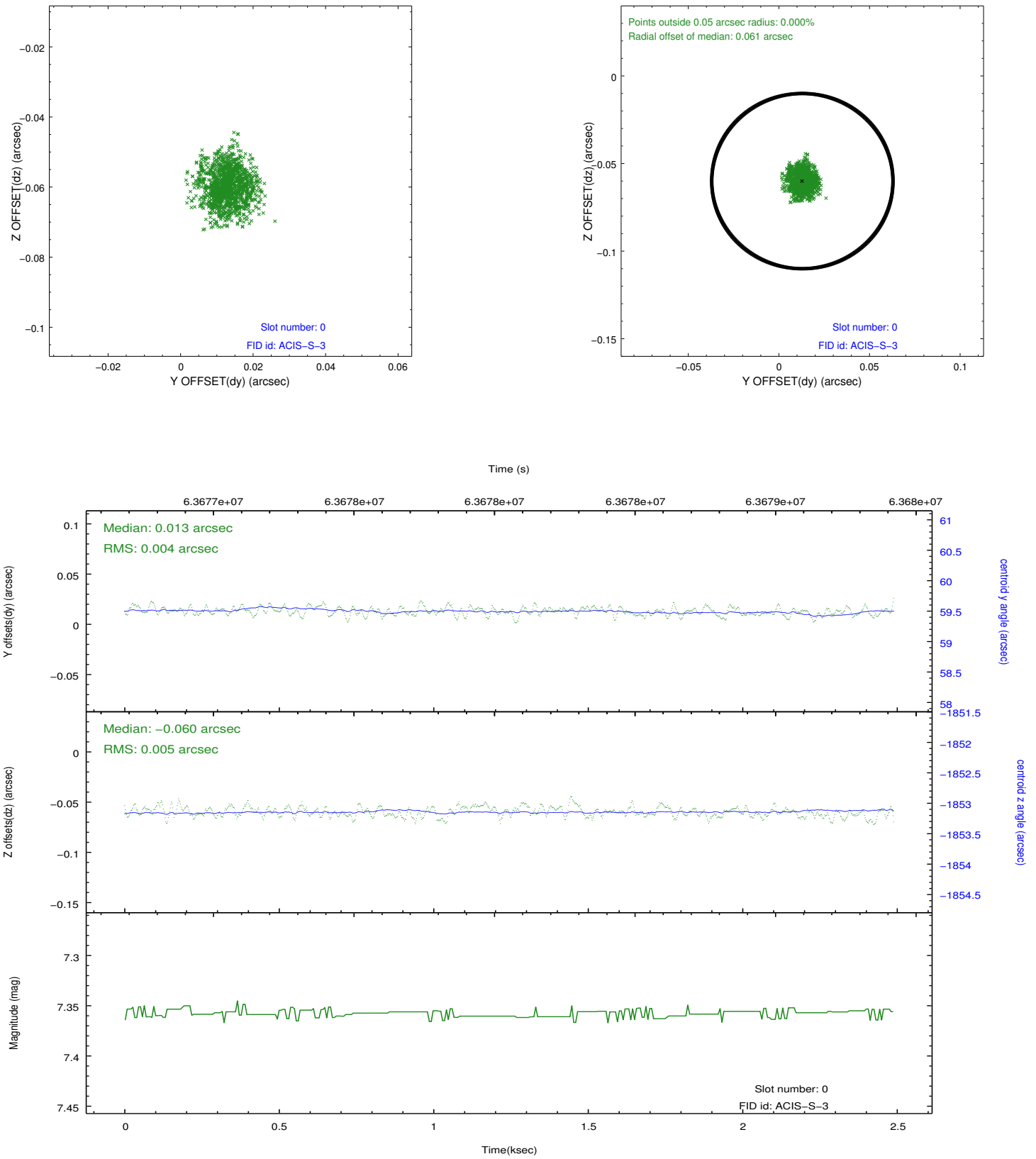


2.4.5 Slot 7

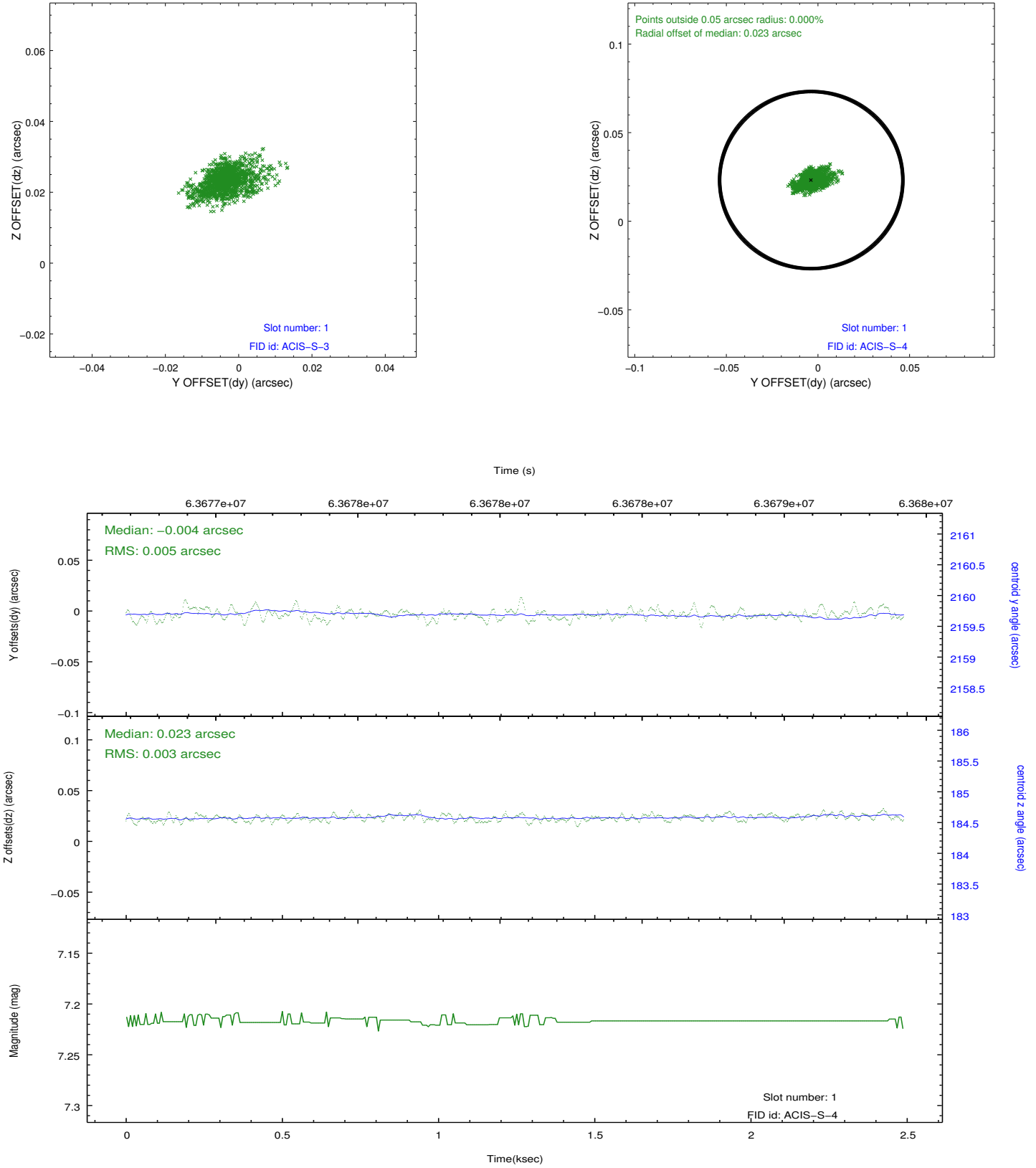


2.5 FID Slots

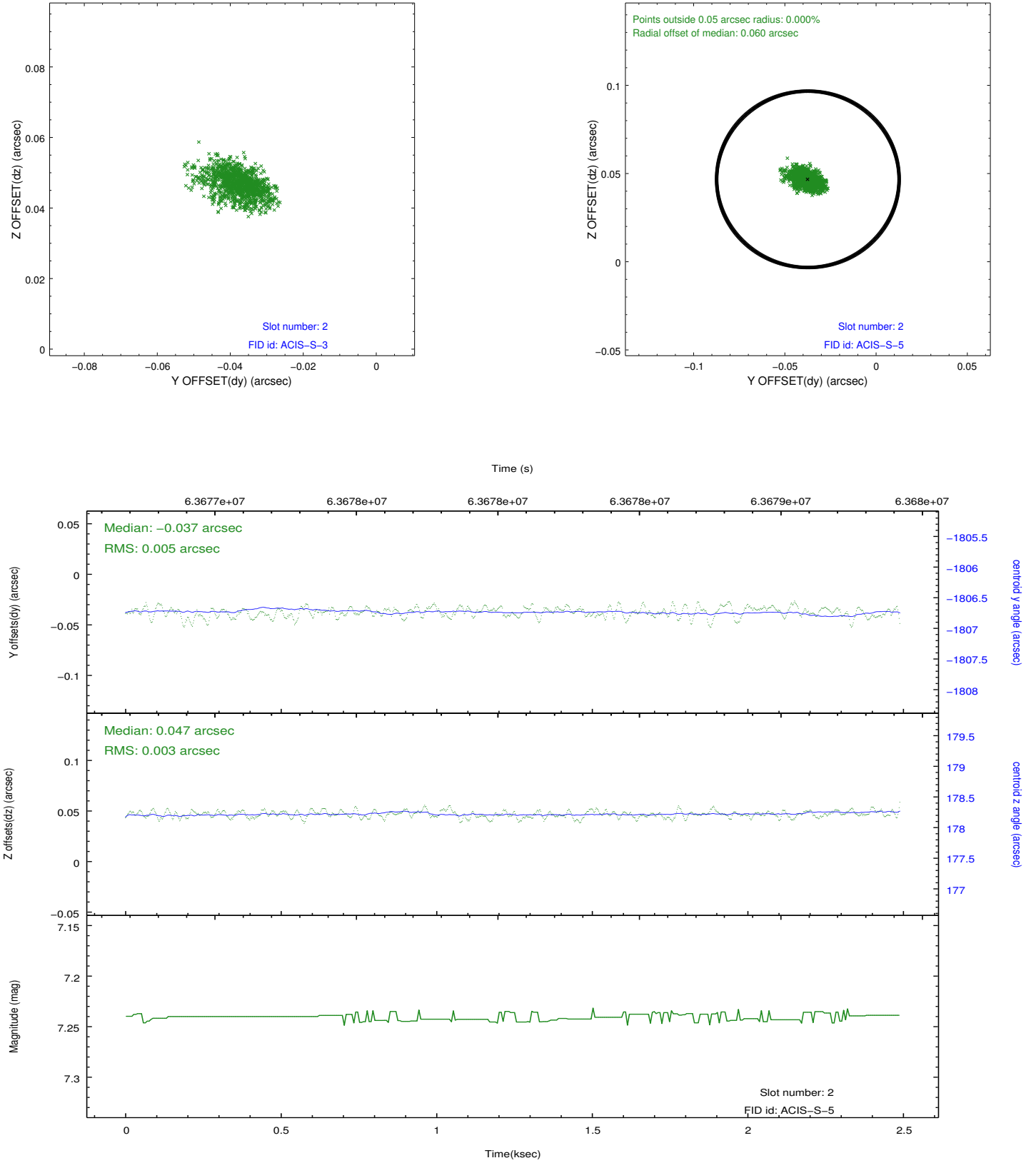
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.164

A.2 Comments

The focal plane temperature is approximately -110C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

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.