

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 472 - L2 Version 3

Chandra X-Ray Center

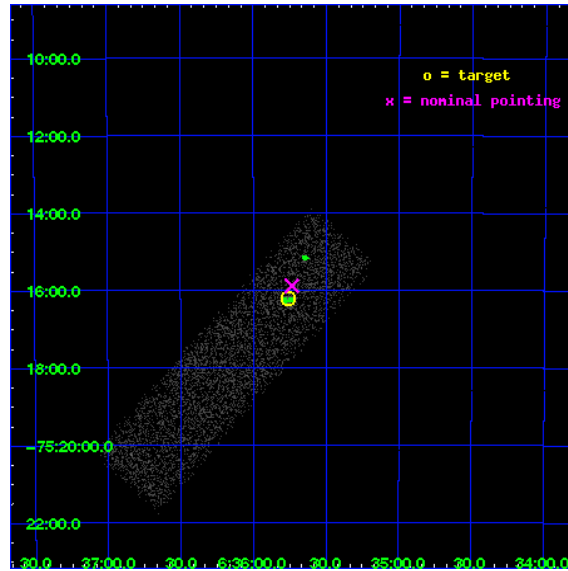
L2 Processing Date : Dec 16 2009

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1 Front

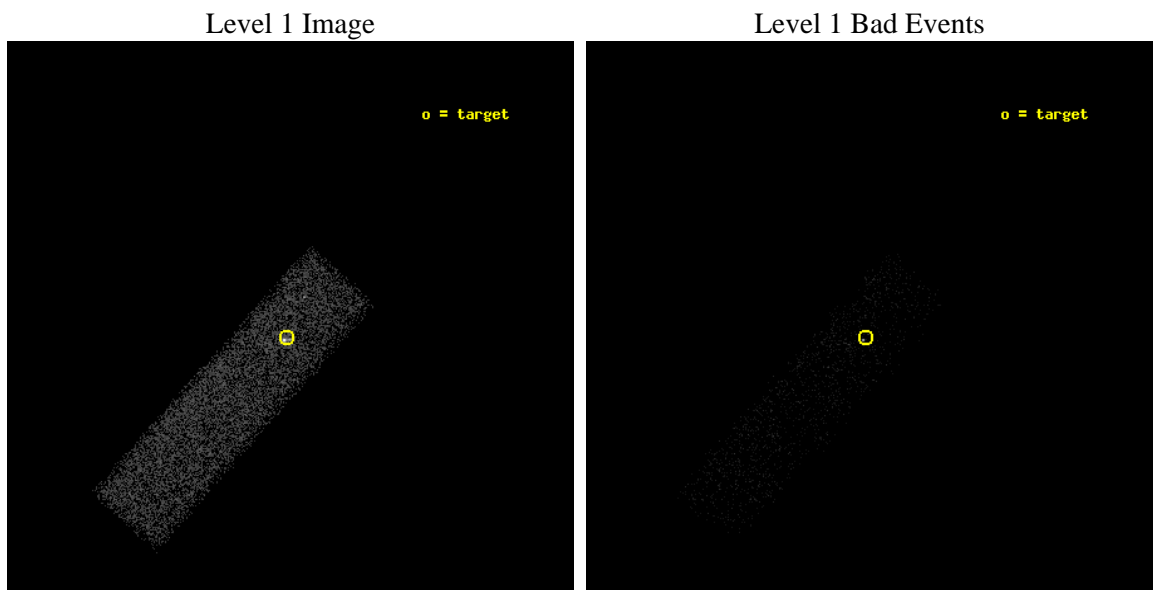
seq_num	790033	Sequence number
obs_id	472	Observation id
title	PKS0637-752, an AGN used for focussing	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS0637-752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.94	Observer's specified target RA
dec_targ	-75.27	Observer's specified target Dec
ra_nom	98.933837471259	Nominal RA
dec_nom	-75.264859660923	Nominal Dec
roll_nom	131.77855699773	Nominal Roll
revision	3	Processing version of data
ontime	5809.4999903738	Sum of GTIs [s]
livetime	5556.1400060959	Livetime [s]
ontime7	5809.4999903738	Sum of GTIs [s]
l2events	9698	Number of level 2 events



2 OBI

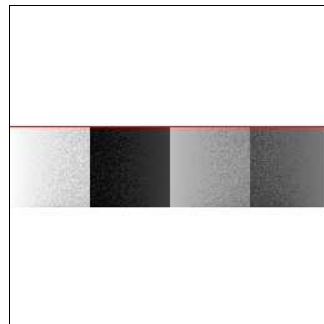
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	5809.4999903738	Sum of GTIs [s]
caldbver	4.1.4	 	ontime7	5809.4999903738	Sum of GTIs [s]
date	2009-12-16T04:13:06	Date and time of file creation	l1events	18200	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

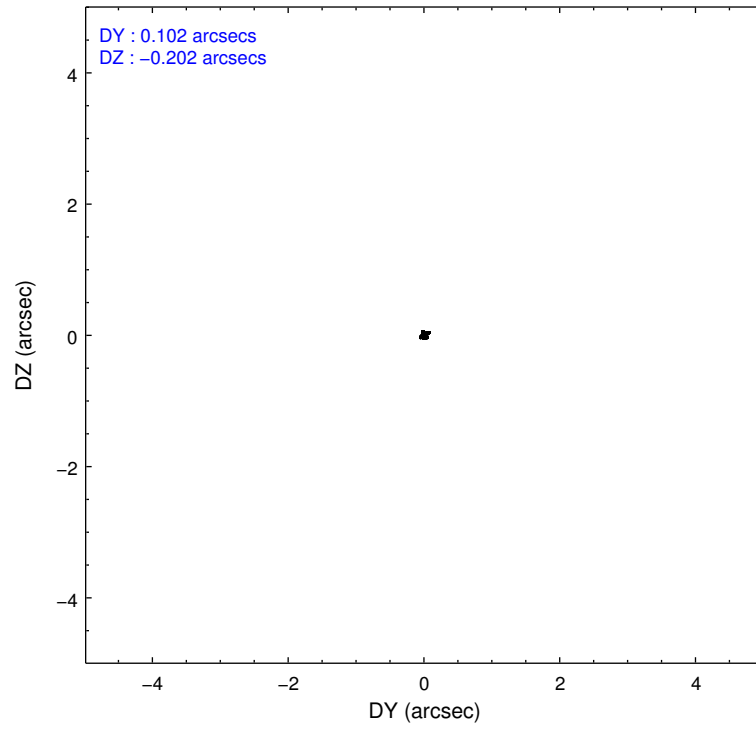
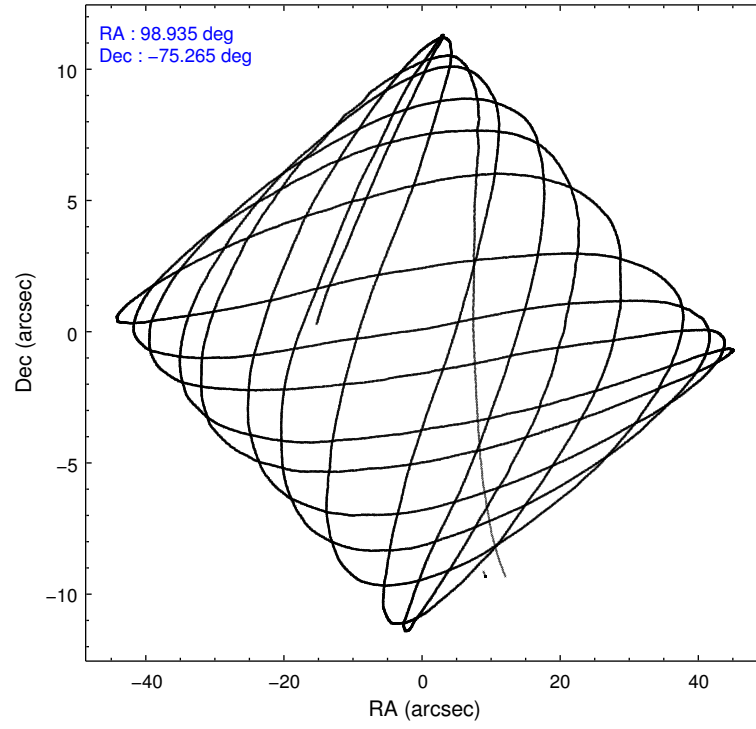
	ccd 7
level 1 events	18200
rejected events	8075
rejected %	44%

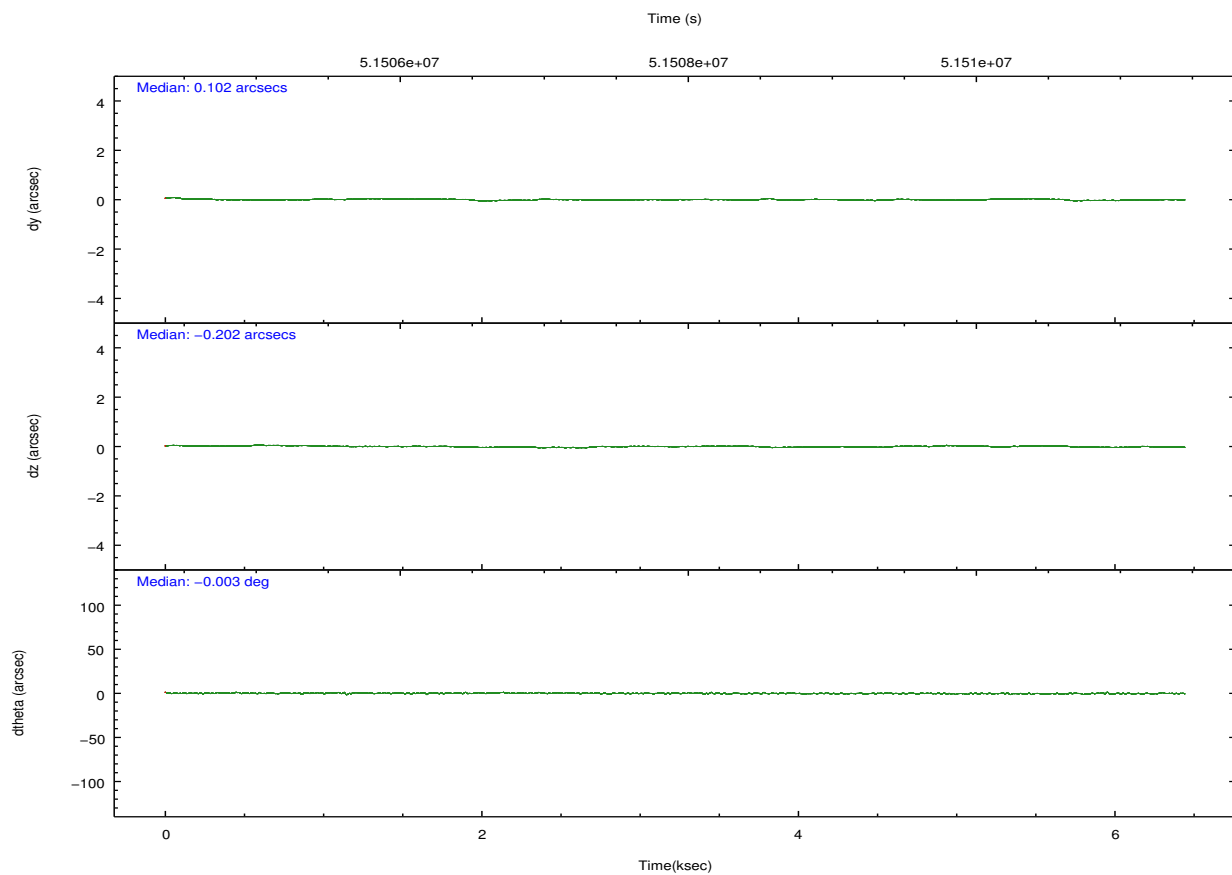
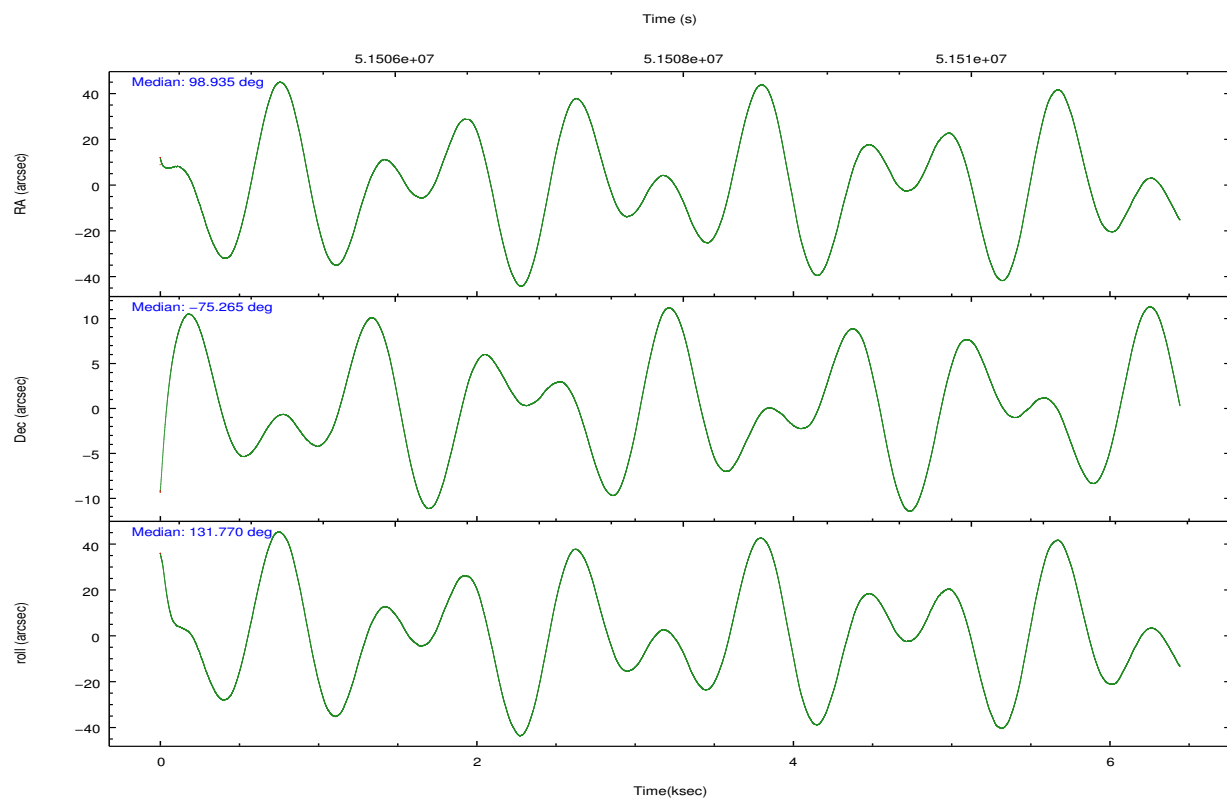
	ccd 7
grade 0 events	1471
	8%
grade 1 events	39
	0%
grade 2 events	1814
	9%
grade 3 events	1356
	7%
grade 4 events	1086
	5%
grade 5 events	1054
	5%
grade 6 events	4398
	24%
grade 7 events	6982
	38%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	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	99.036618	98.93383747125921	Subarray requested	CUSTOM	1/4
Pointing Dec	-75.274017	-75.26485966092292	Subarray start row	384	384
Pointing Roll	131.721274	131.7785569977333	Subarray row count	256	256
SIM focus pos (mm)	0.470721	0.2569426819643431	Alternating exposures requested	N	N
SIM defocus (mm)	1.154988	0.9412101432642392	Primary exposure time	0.000000	0.9
SIM translation stage pos (mm)	-190.132523	-190.1199515274594			
SIM translation stage offset (mm)	0	-0.012571055548392			
Observation start time	51505130.184000	51503198.662855			
Observation start date	1999-08-20T02:57:46	1999-08-20T02:26:38			
Observation end time	51511130.184000	51511256.700645			
Observation end date	1999-08-20T04:37:46	1999-08-20T04:40:56			
Read mode	TIMED	TIMED			

2.3 Aspect



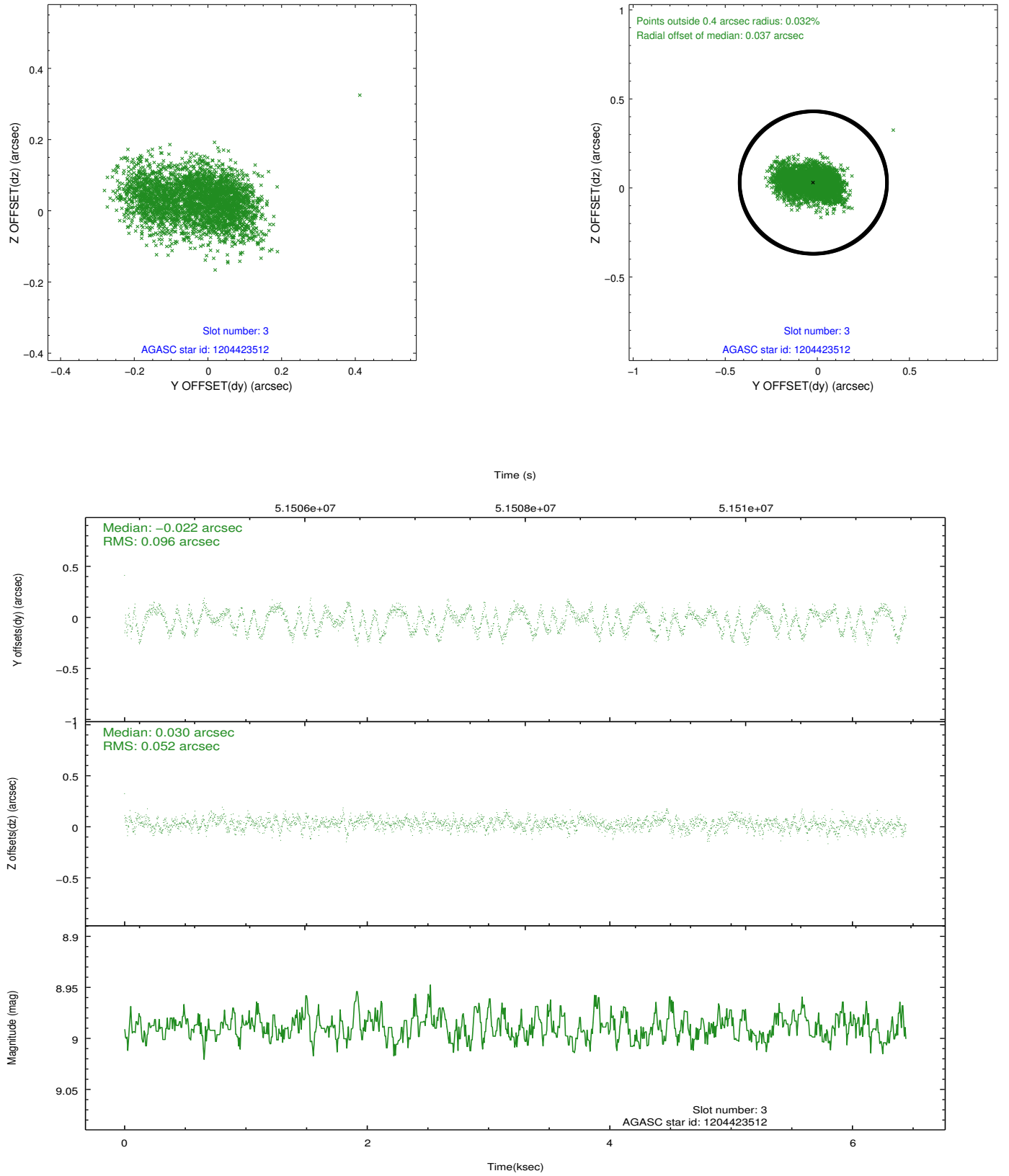


Slot Statistics

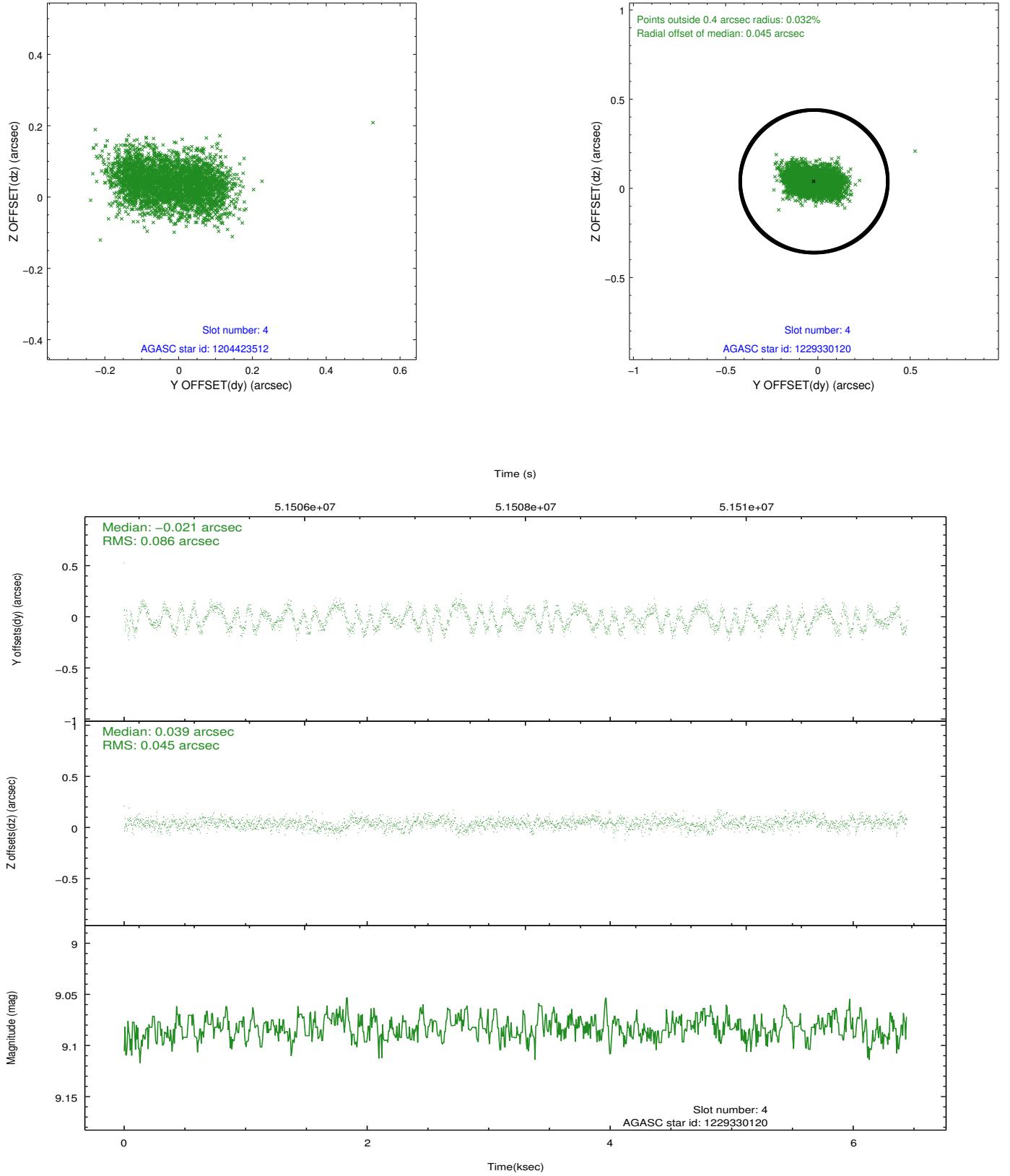
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.35	3144	-0.030	0.072	0.009	0.016	0.000000	0.000000	60.46	-1850.35
1	FID	ACIS-S-4	7.21	3143	0.082	-0.017	0.011	0.027	0.000000	0.000000	2160.99	186.82
2	FID	ACIS-S-5	7.25	3143	-0.081	-0.045	0.010	0.022	0.000000	0.000000	-1805.27	181.03
3	GUIDE	1204423512	8.99	3141	-0.022	0.030	0.118	0.188	100.368786	-74.674048	758.46	-2373.26
4	GUIDE	1229330120	9.08	3142	-0.021	0.039	0.106	0.160	98.874898	-75.821050	-1375.05	1416.82
5	GUIDE	1229331616	9.91	3072	-0.012	-0.026	0.102	0.167	96.182998	-75.347362	1484.44	2157.64
6	GUIDE	1204425200	9.79	3140	0.051	-0.039	0.119	0.199	100.052994	-74.556368	1274.77	-2439.62
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

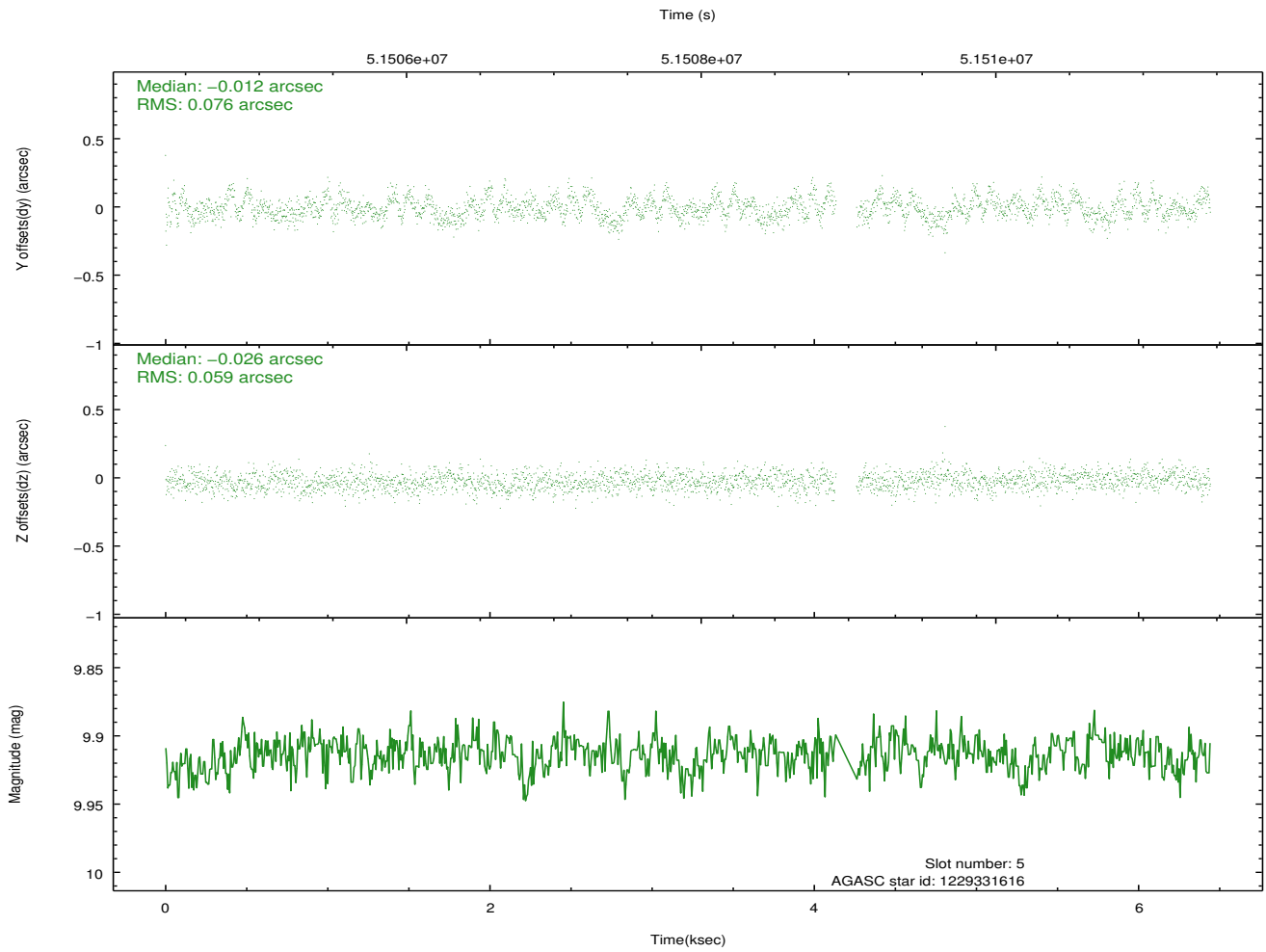
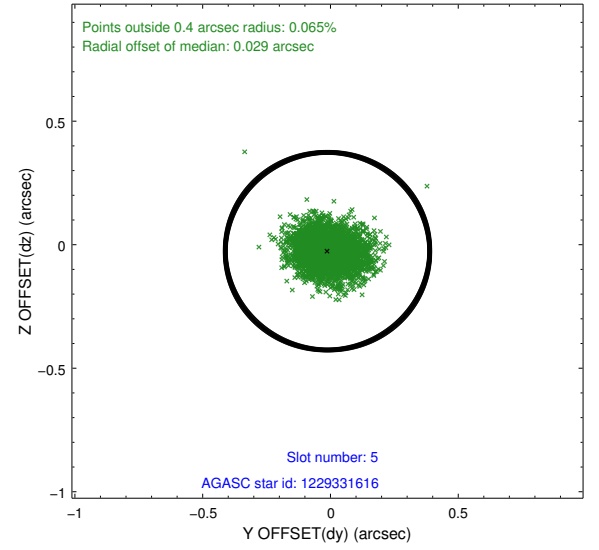
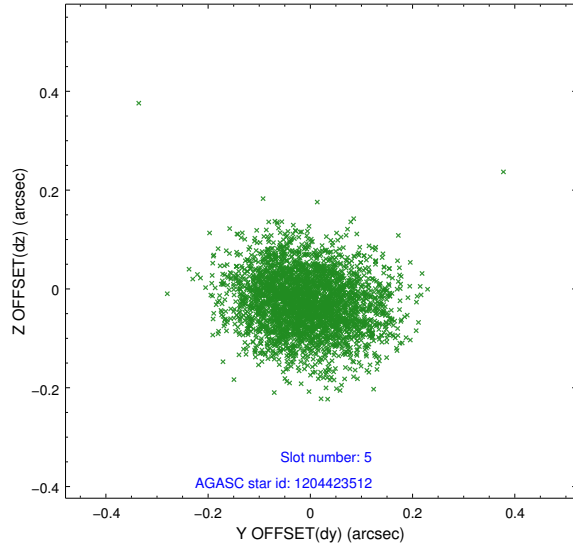
2.4.1 Slot 3



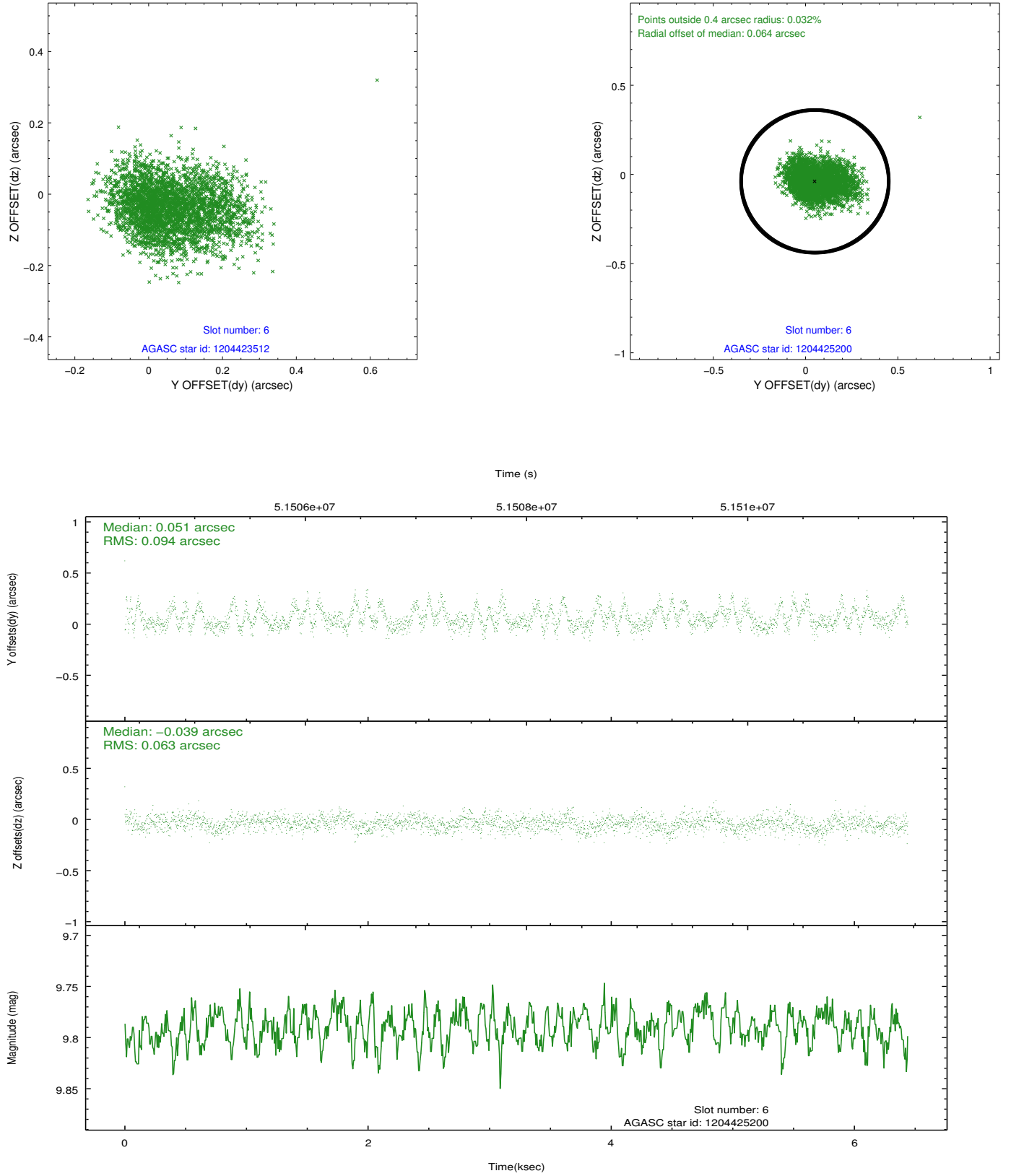
2.4.2 Slot 4



2.4.3 Slot 5

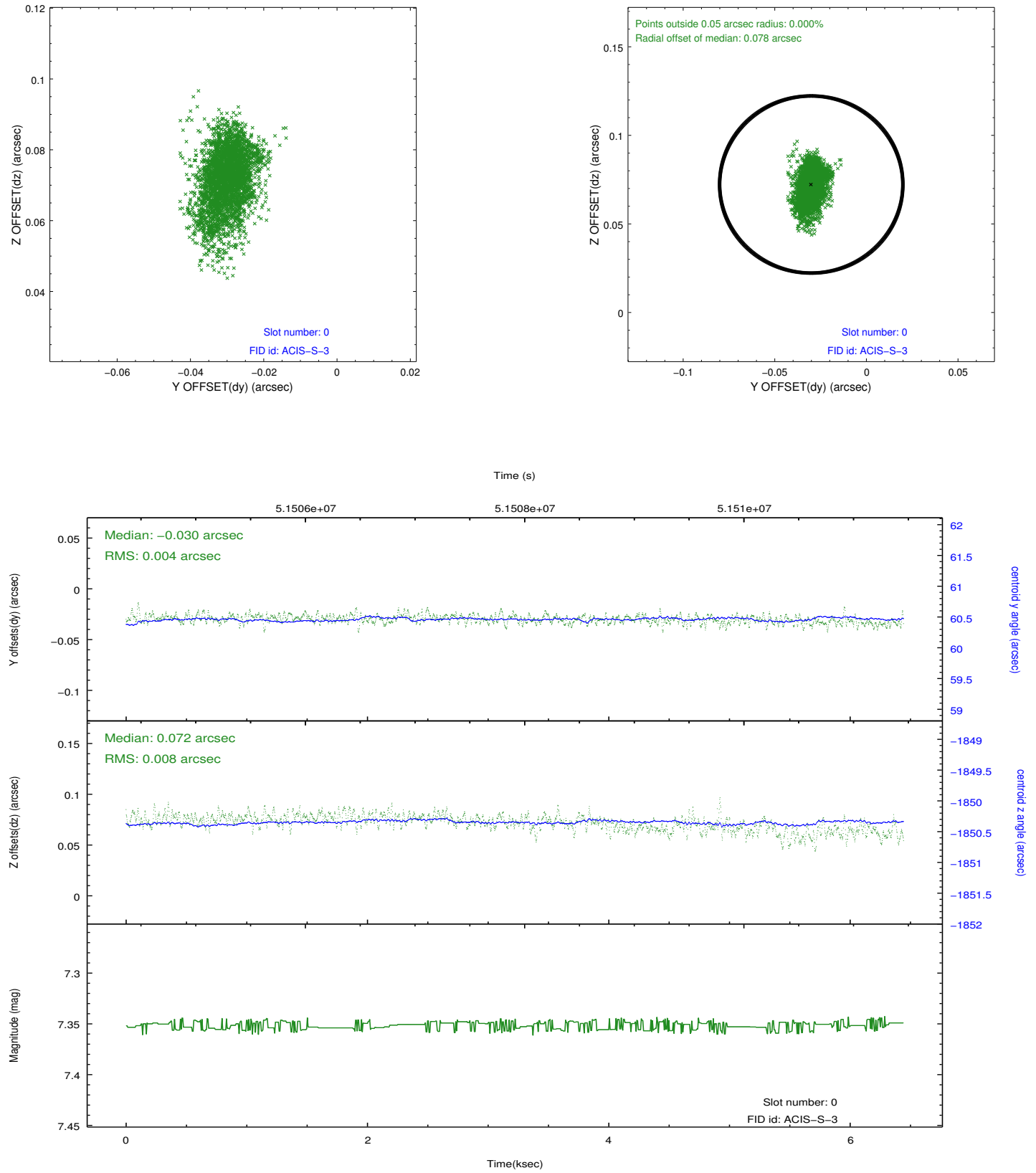


2.4.4 Slot 6

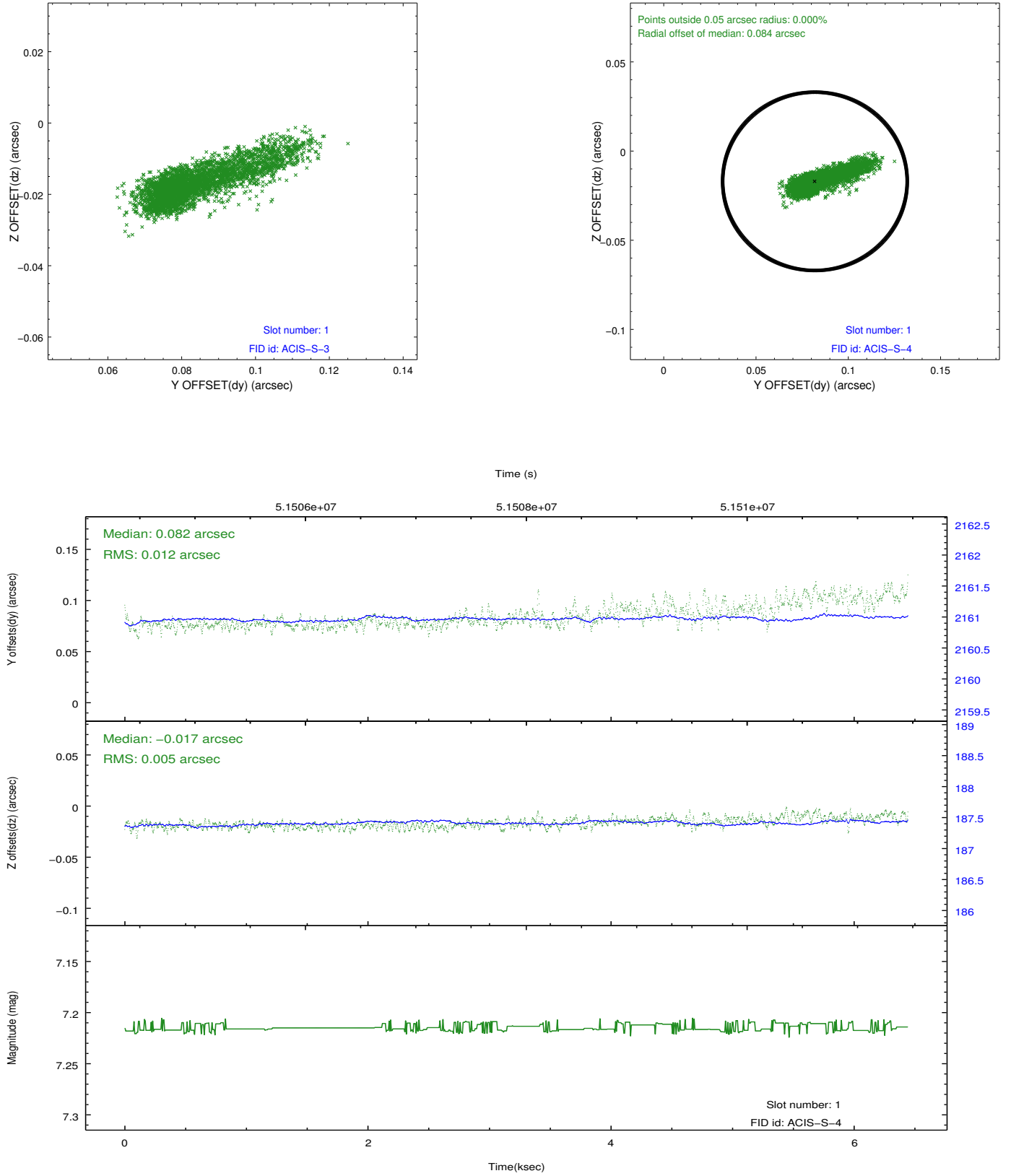


2.5 FID Slots

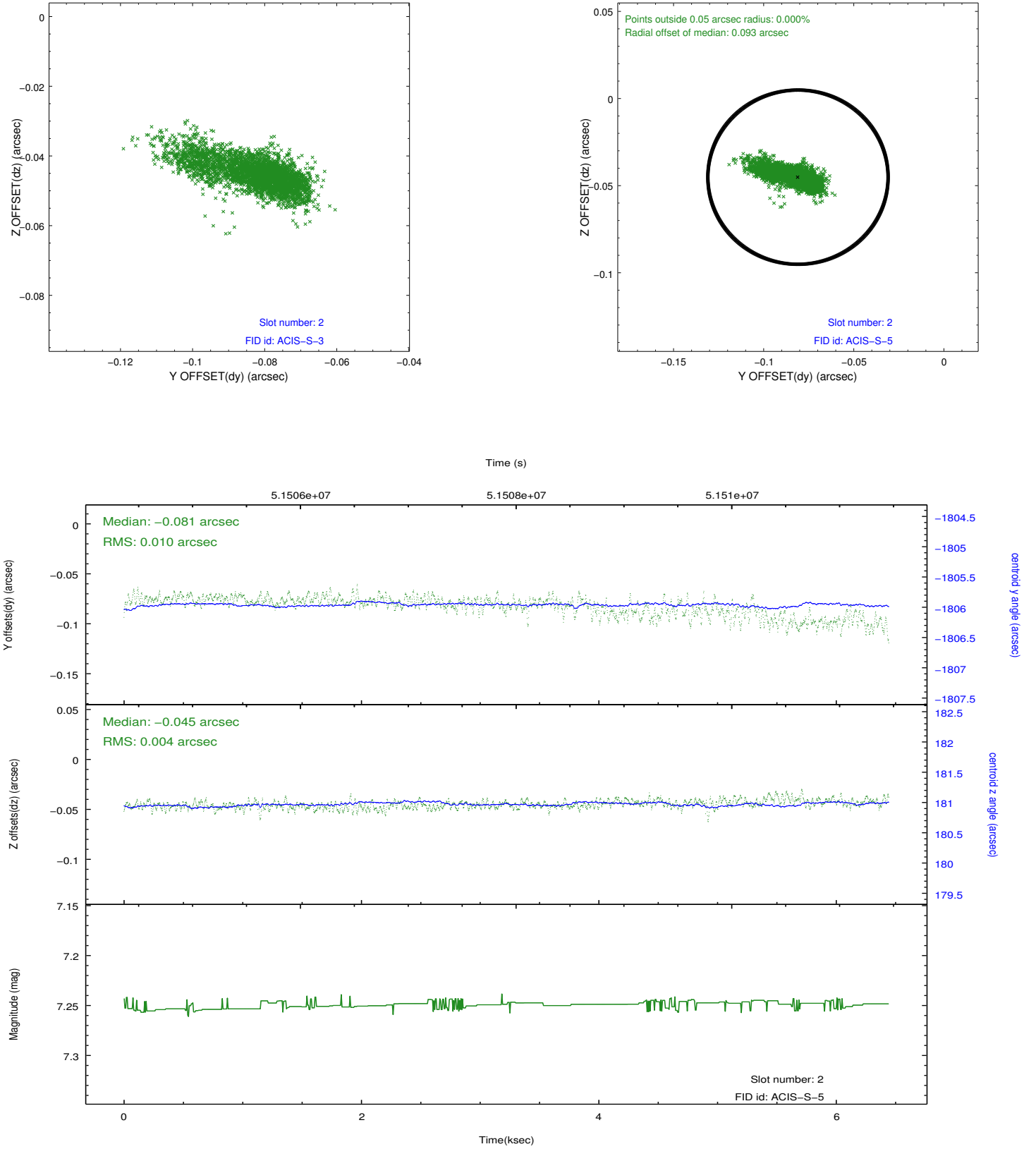
2.5.1 Slot 0



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)	2010.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.77

A.2 Comments

ACIS-S Plate Focus using PKS 0637-752.

SIM FA = 172 == (173 actual)

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Charge time for this ObsId remains at previous value of 5.77 ksec, although with the current processing the charge time would have been 5.80 ksec.

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Slot 7 was used as a monitoring window for a star.

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The focal plane temperature is approximately -100 C 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.