

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 476 - L2 Version 3

Chandra X-Ray Center

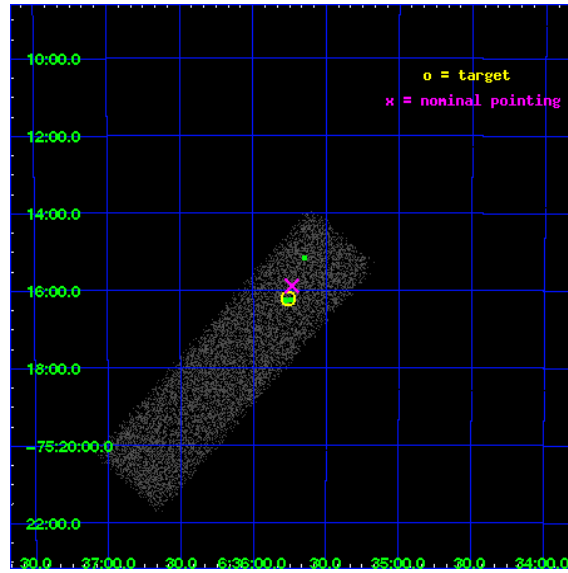
L2 Processing Date : Dec 16 2009

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1 Front

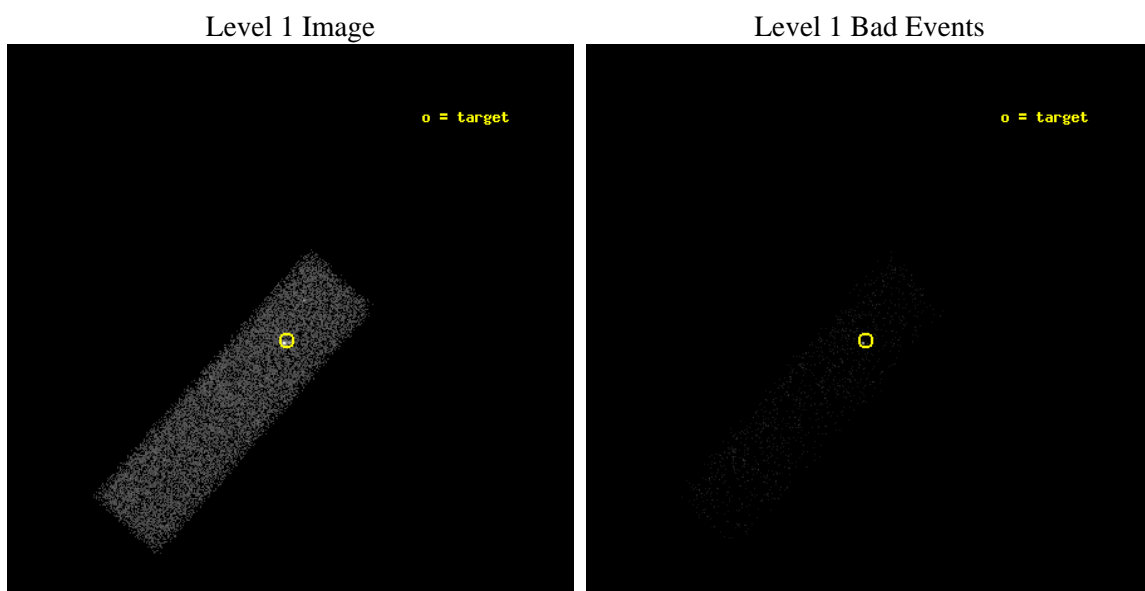
seq_num	790037	Sequence number
obs_id	476	Observation id
title	PKS0637-752, an AGN used for focussing	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS0637-752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.94	Observer's specified target RA
dec_targ	-75.27	Observer's specified target Dec
ra_nom	98.933666604866	Nominal RA
dec_nom	-75.2648613903	Nominal Dec
roll_nom	131.48041486915	Nominal Roll
revision	3	Processing version of data
ontime	4854.5999919549	Sum of GTIs [s]
livetime	4642.8844605536	Livetime [s]
ontime7	4854.5999919549	Sum of GTIs [s]
l2events	14287	Number of level 2 events



2 OBI

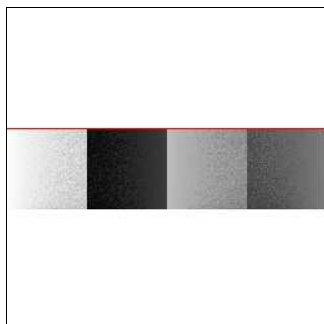
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	4854.5999919549	Sum of GTIs [s]
caldbver	4.1.4	 	ontime7	4854.5999919549	Sum of GTIs [s]
date	2009-12-16T04:35:03	Date and time of file creation	l1events	22205	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

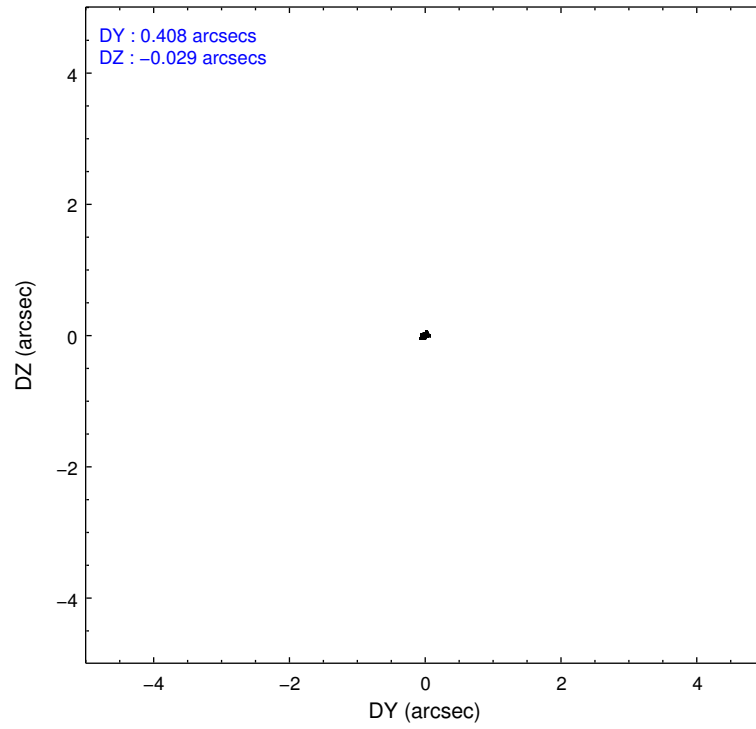
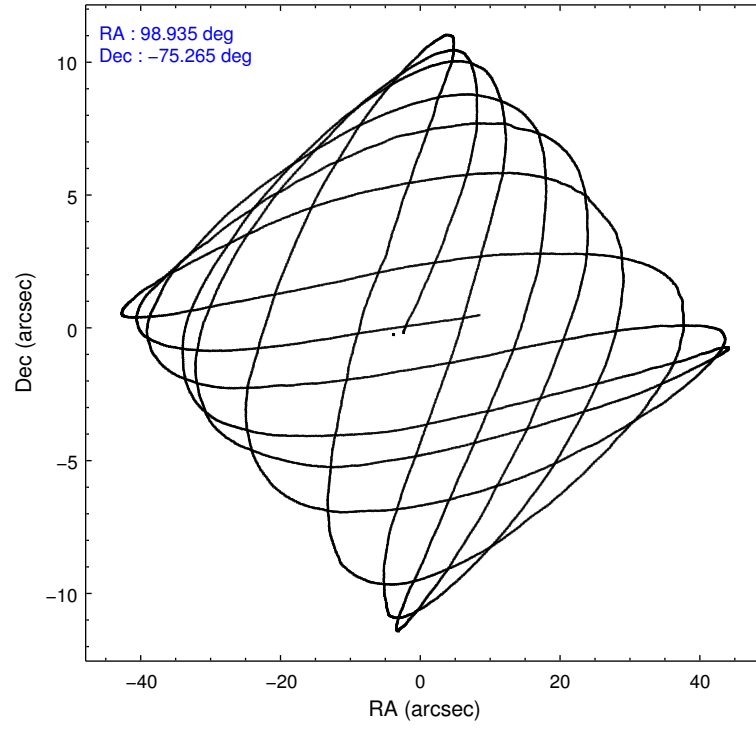
	ccd 7
level 1 events	22205
rejected events	7454
rejected %	33%

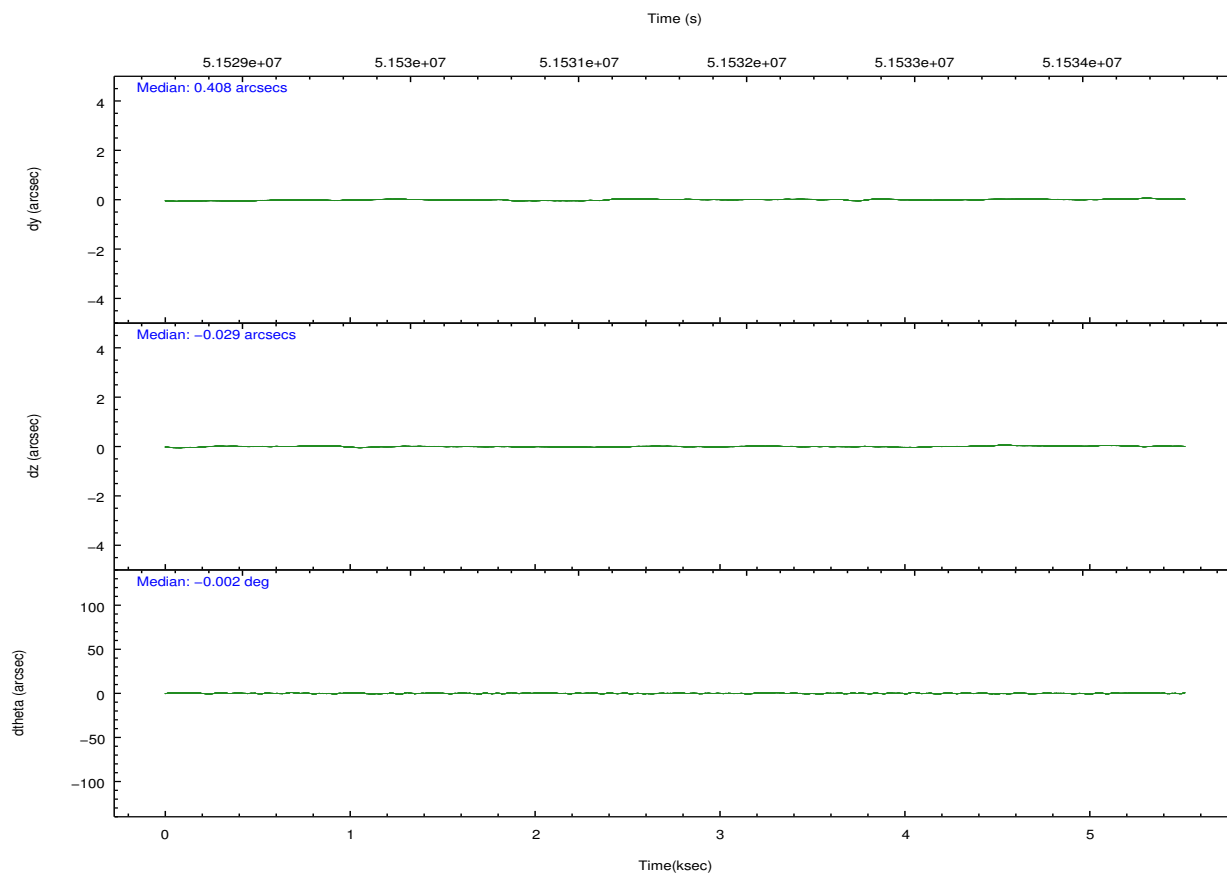
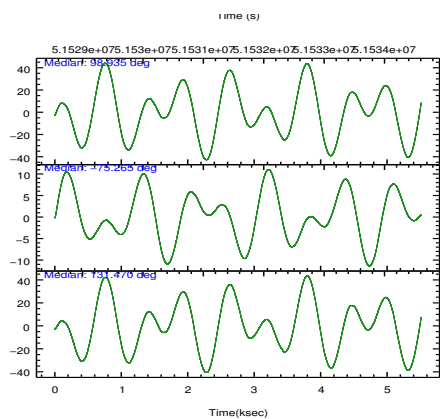
	ccd 7
grade 0 events	1954
	8%
grade 1 events	24
	0%
grade 2 events	2472
	11%
grade 3 events	1753
	7%
grade 4 events	1417
	6%
grade 5 events	927
	4%
grade 6 events	7156
	32%
grade 7 events	6502
	29%

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	99.036528	98.93366660486612	Subarray requested	CUSTOM	1/4
Pointing Dec	-75.274164	-75.26486139029986	Subarray start row	384	384
Pointing Roll	131.423269	131.4804148691542	Subarray row count	256	256
SIM focus pos (mm)	-1.580126	-1.733990519297212	Alternating exposures requested	N	N
SIM defocus (mm)	-0.895859	-1.049723057997316	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	51529330.184000	51528657.101272			
Observation start date	1999-08-20T09:41:06	1999-08-20T09:30:57			
Observation end time	51534330.184000	51535521.014019			
Observation end date	1999-08-20T11:04:26	1999-08-20T11:25:21			
Read mode	TIMED	TIMED			

2.3 Aspect



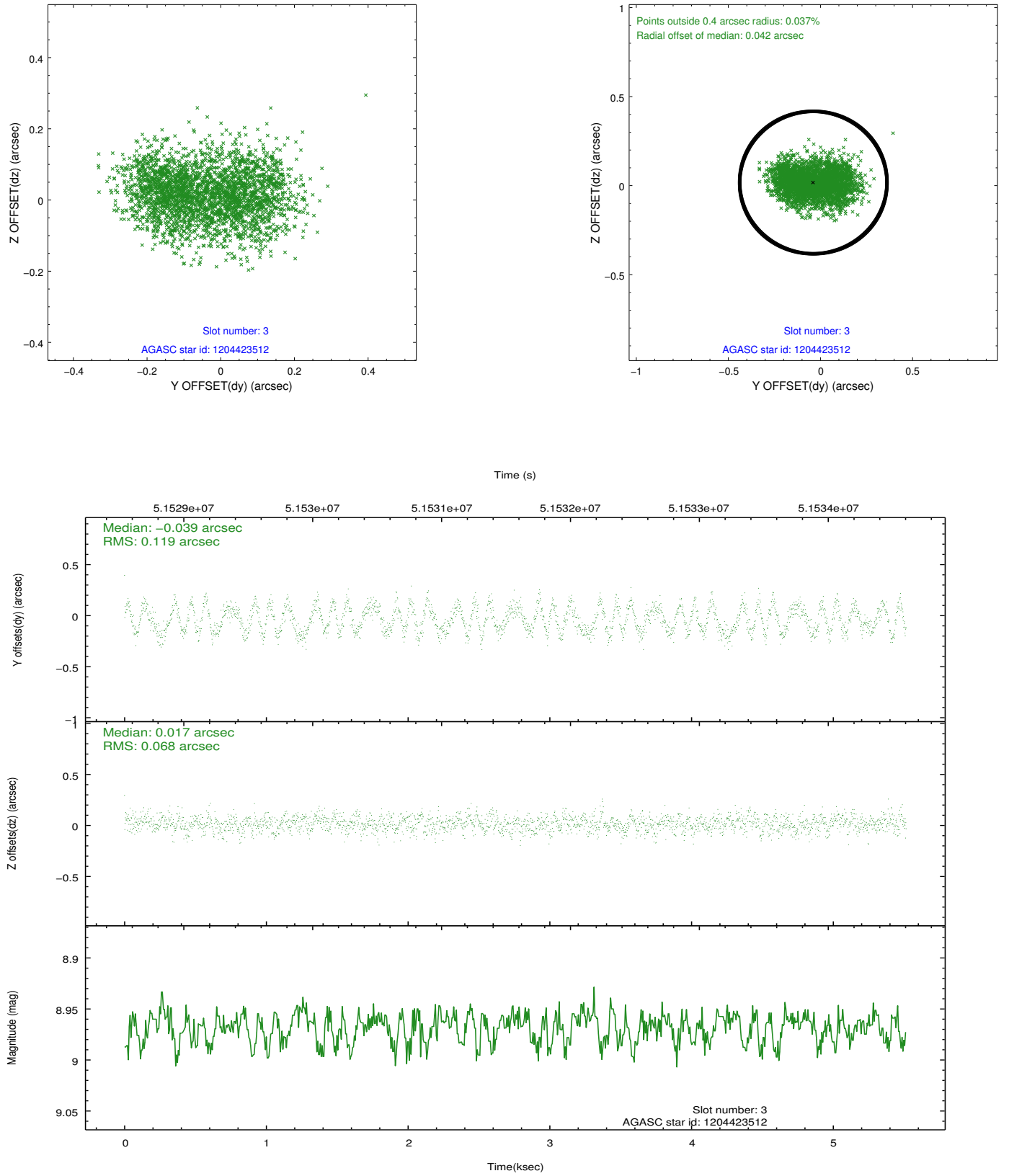


Slot Statistics

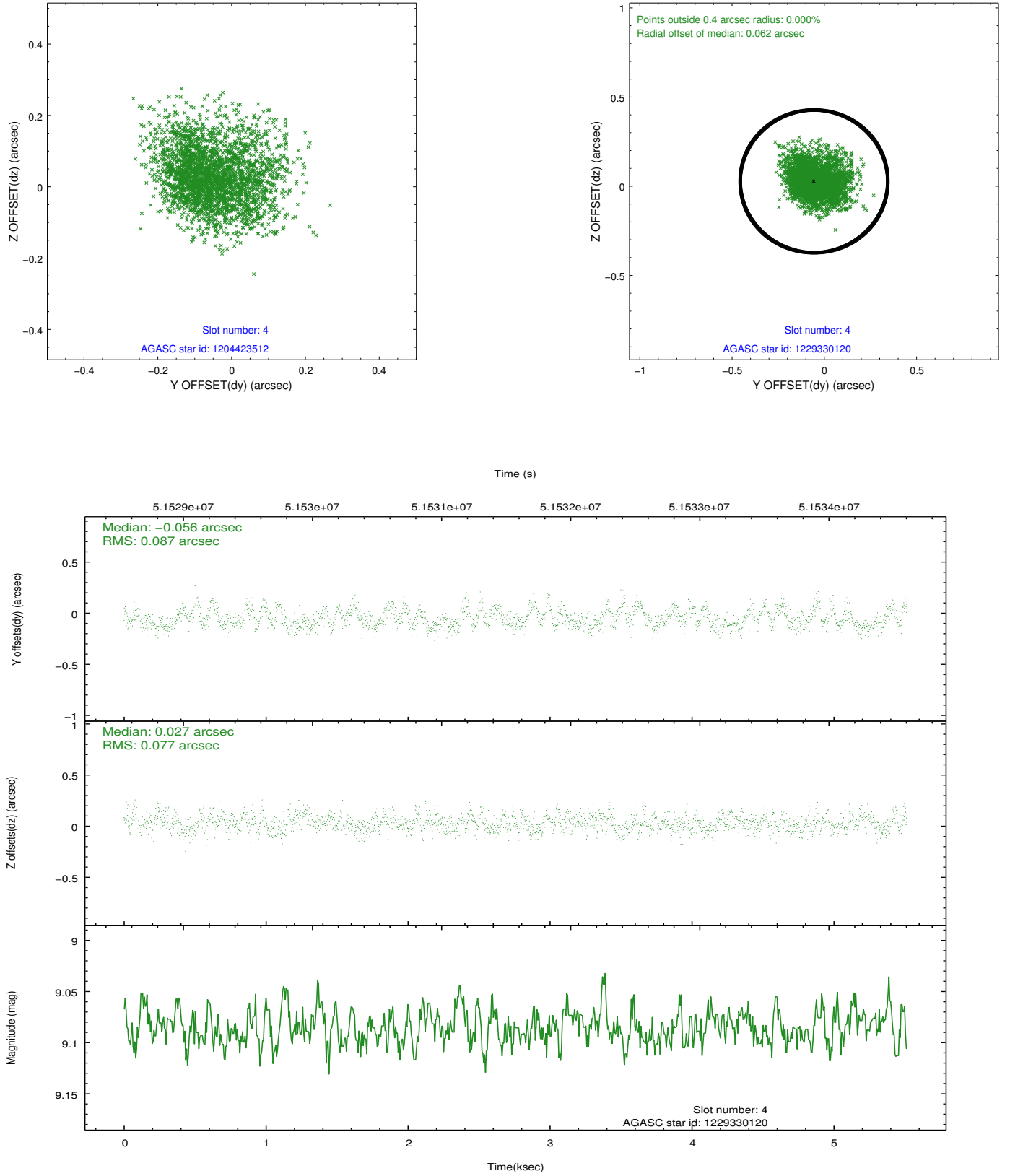
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.37	2690	-0.029	-0.028	0.006	0.010	0.000000	0.000000	60.13	-1850.25
1	FID	ACIS-S-4	7.23	2690	0.144	0.030	0.005	0.009	0.000000	0.000000	2160.33	186.54
2	FID	ACIS-S-5	7.26	2690	-0.144	0.008	0.005	0.009	0.000000	0.000000	-1805.16	180.91
3	GUIDE	1204423512	8.97	2689	-0.039	0.017	0.150	0.223	100.368786	-74.674048	771.17	-2370.04
4	GUIDE	1229330120	9.09	2689	-0.056	0.027	0.123	0.204	98.874898	-75.821050	-1382.12	1408.72
5	GUIDE	1229331616	9.92	2690	0.018	-0.027	0.145	0.230	96.182998	-75.347362	1473.26	2164.57
6	GUIDE	1204425200	9.80	2690	0.064	-0.022	0.178	0.283	100.052994	-74.556368	1287.91	-2433.54
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

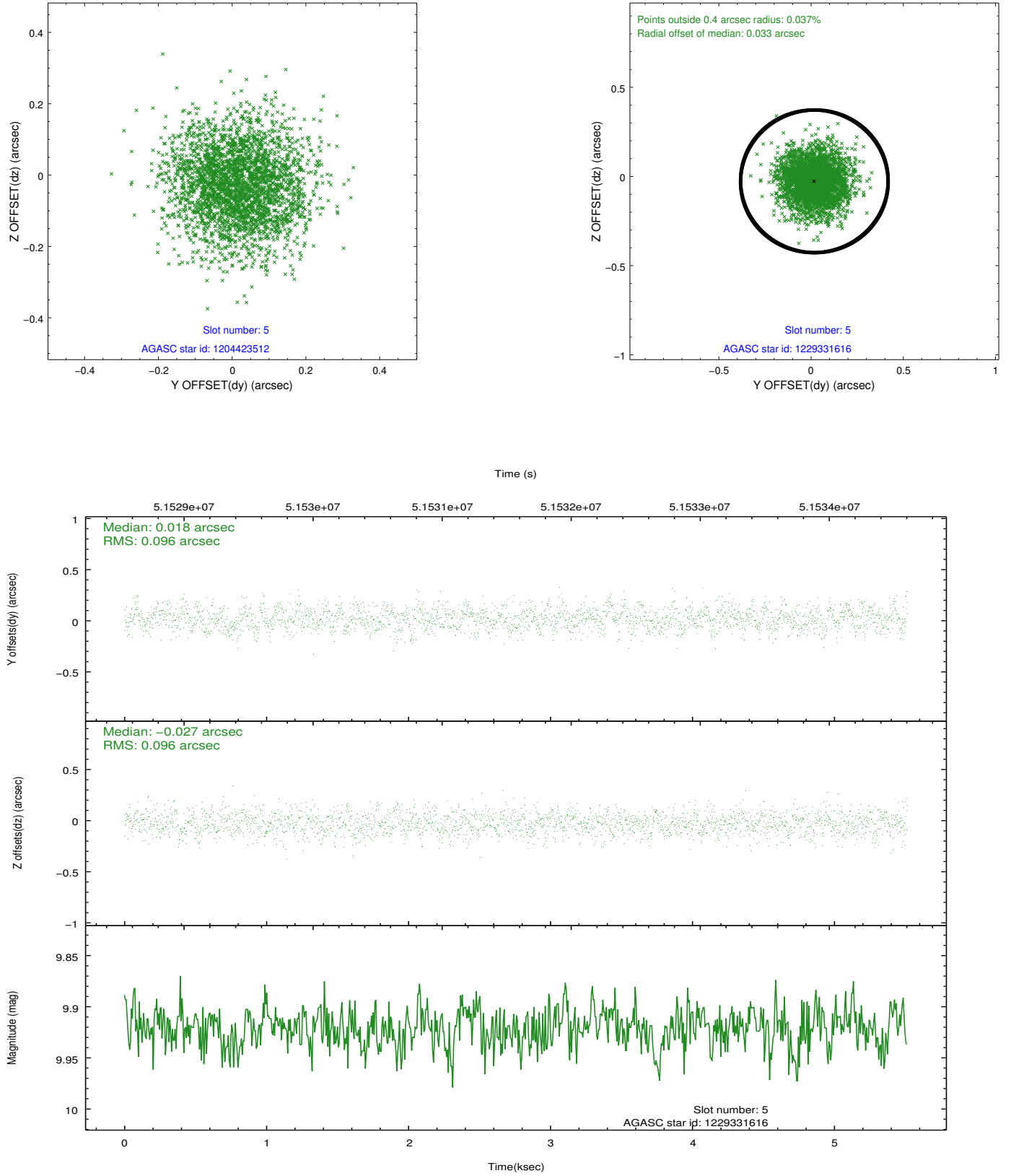
2.4.1 Slot 3



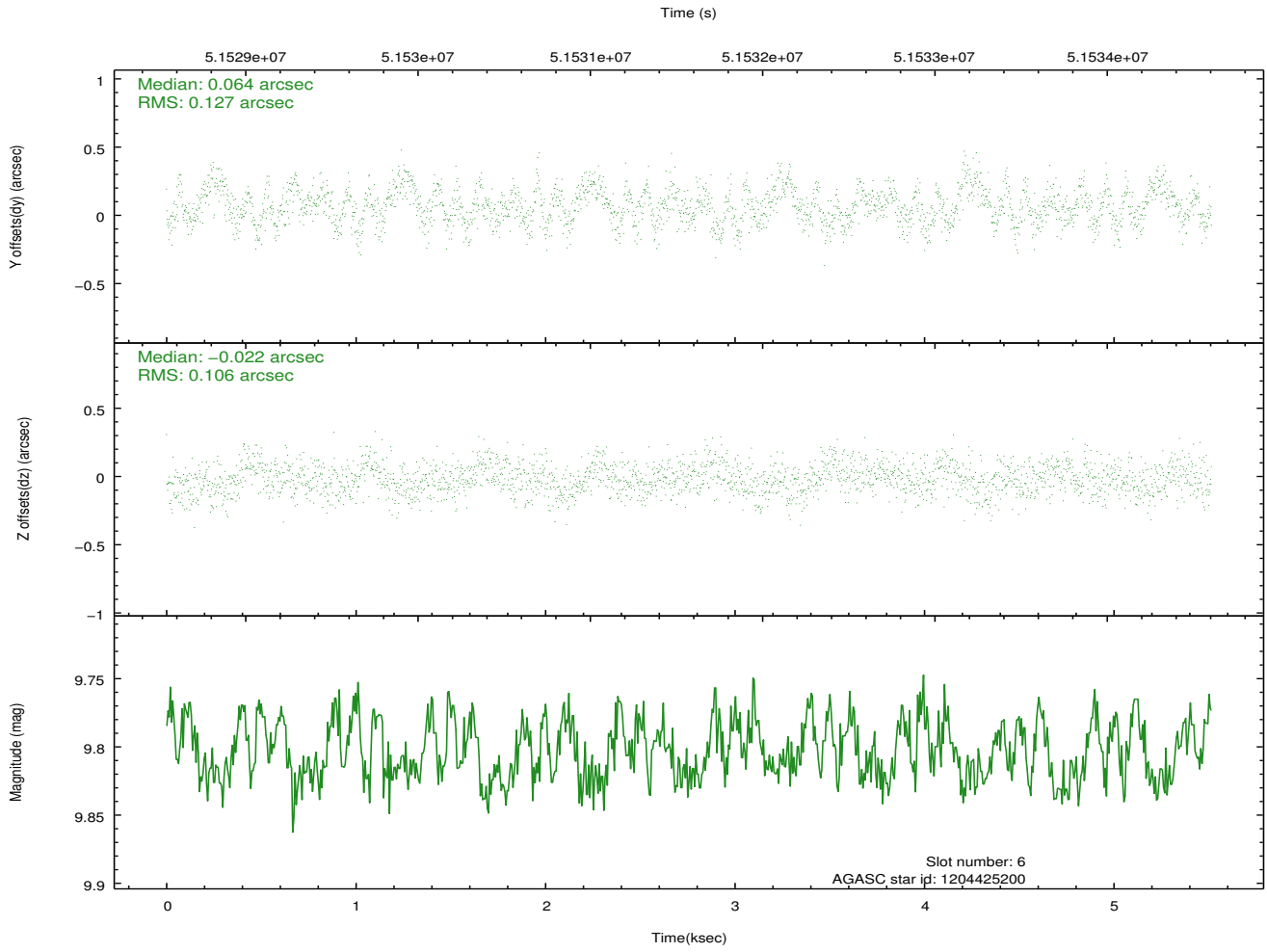
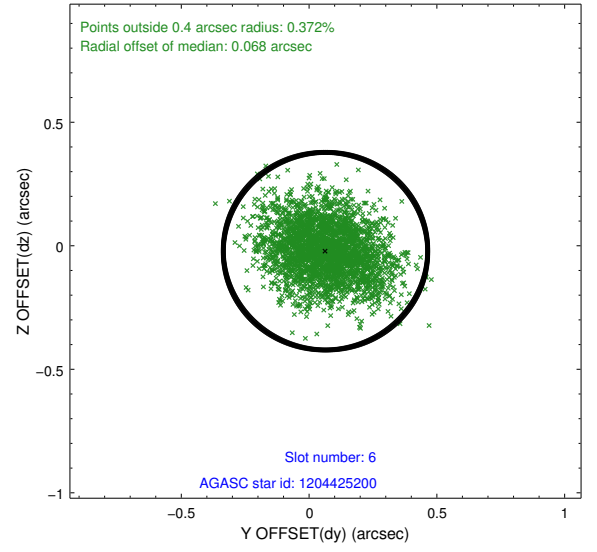
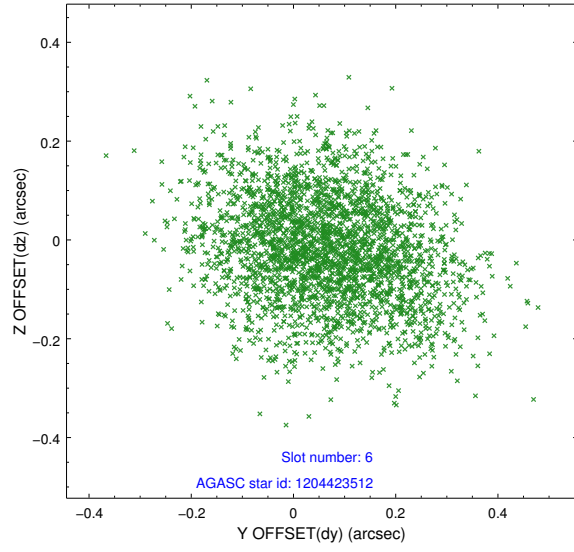
2.4.2 Slot 4



2.4.3 Slot 5

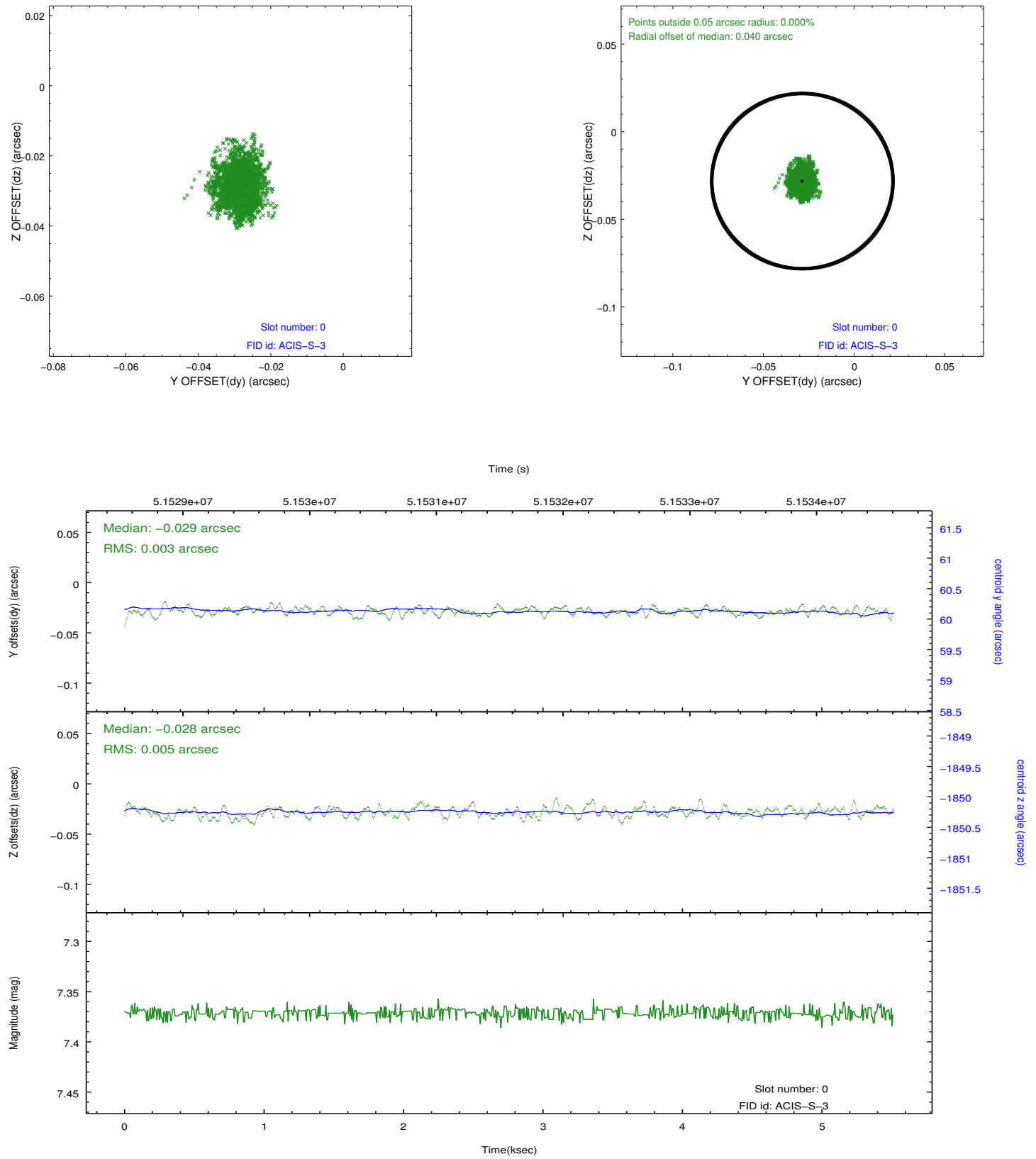


2.4.4 Slot 6

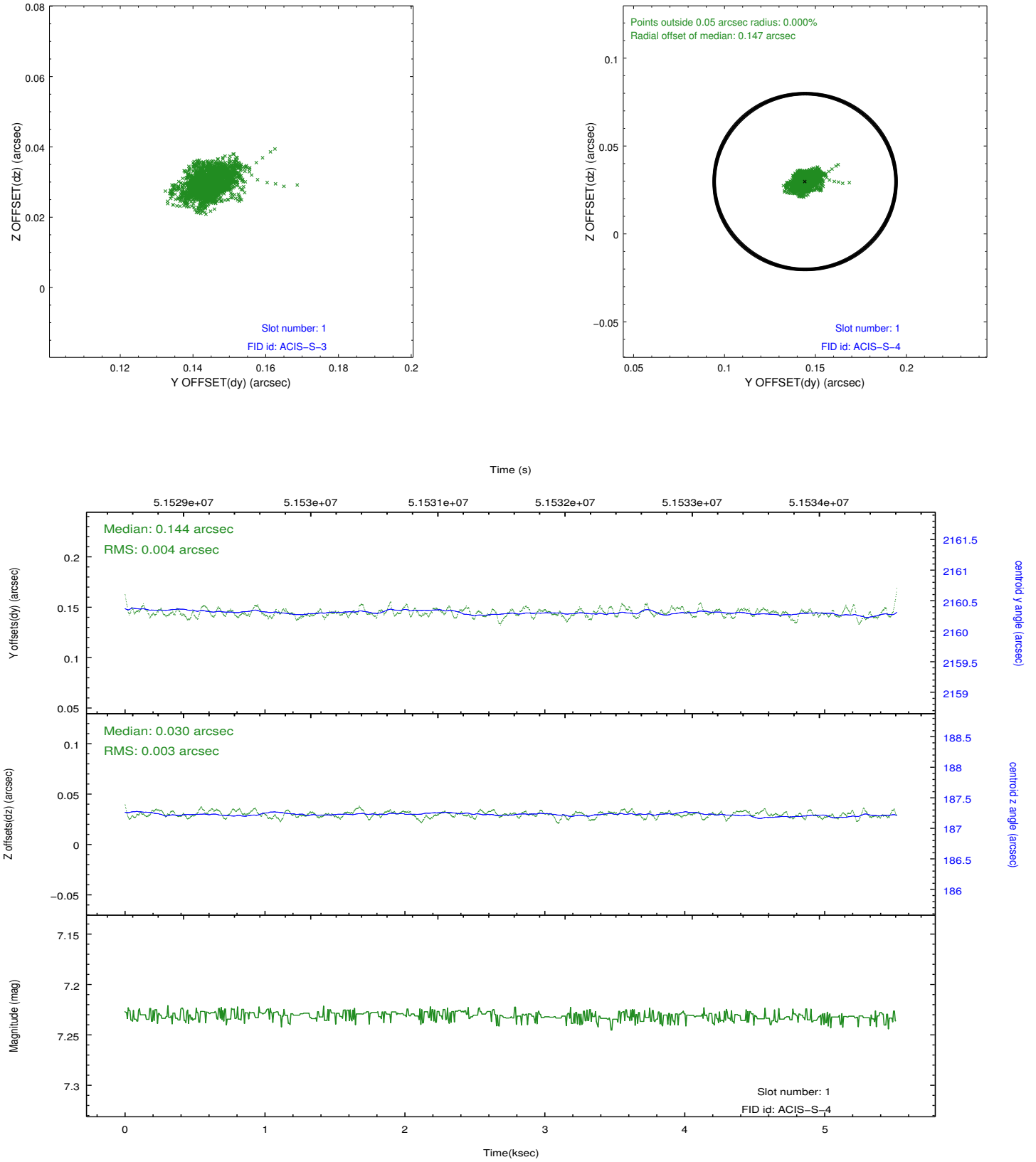


2.5 FID Slots

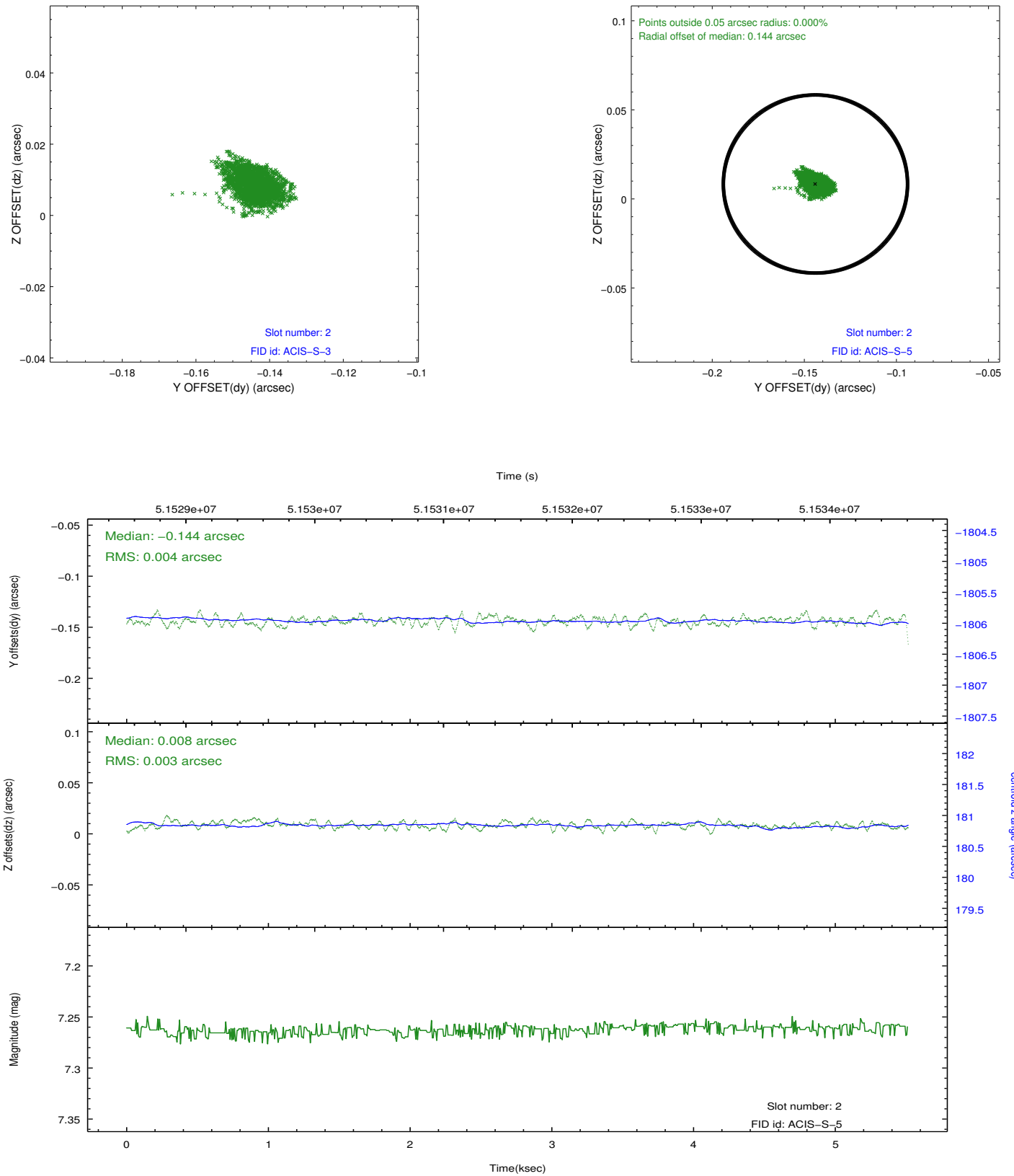
2.5.1 Slot 0



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)	2010.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.821

A.2 Comments

ACIS-S Plate Focus using PKS 0637-752

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SIM FA = -1210

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Charge time for this ObsId remains at previous value of 4.821 ksec, although with the current processing the charge time would have been 4.854 ksec.

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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.