

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1226 - L2 Version 3
Chandra X-Ray Center

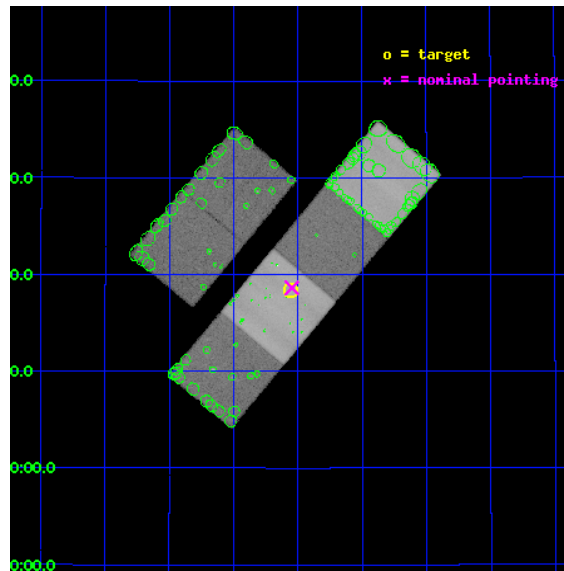
L2 Processing Date : Jul 10 2010

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1 Front

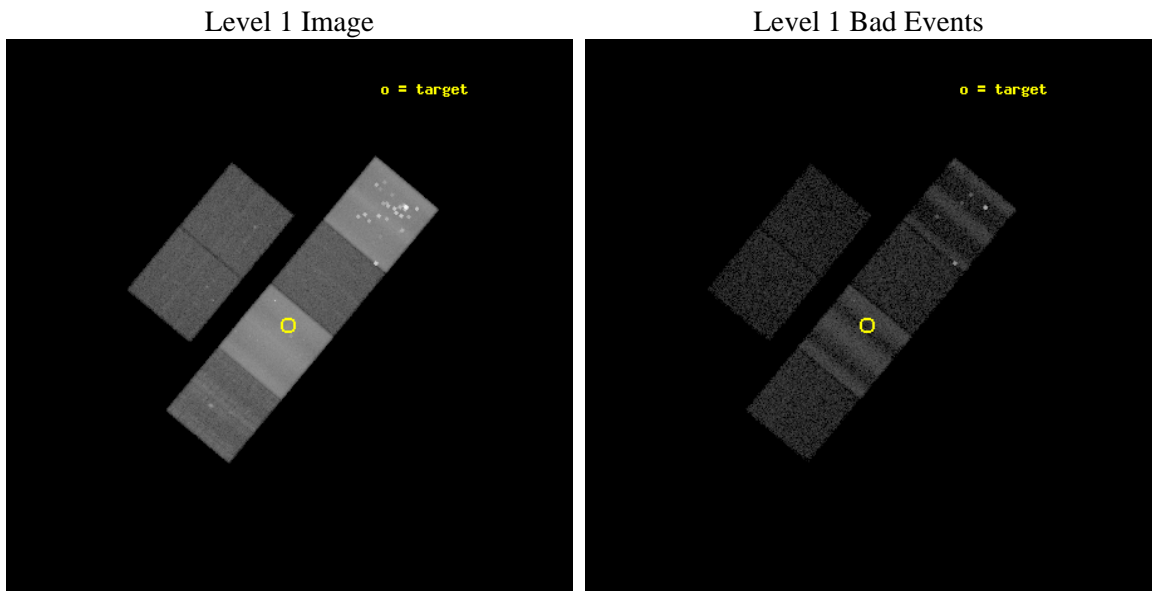
seq_num	880176	Sequence number
obs_id	1226	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	RXJ003033.2+261819	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	7.638333	Observer's specified target RA
dec_targ	26.305278	Observer's specified target Dec
ra_nom	7.636790175355	Nominal RA
dec_nom	26.3104489214	Nominal Dec
roll_nom	129.83710806699	Nominal Roll
revision	3	Processing version of data
ontime	24732.513371445	Sum of GTIs [s]
livetime	24419.335395004	Livetime [s]
ontime2	24742.236242063	Sum of GTIs [s]
ontime3	24735.75432165	Sum of GTIs [s]
ontime5	24735.754361577	Sum of GTIs [s]
ontime6	24738.995251931	Sum of GTIs [s]
ontime7	24732.513371445	Sum of GTIs [s]
ontime8	24745.477142423	Sum of GTIs [s]
l2events	830531	Number of level 2 events



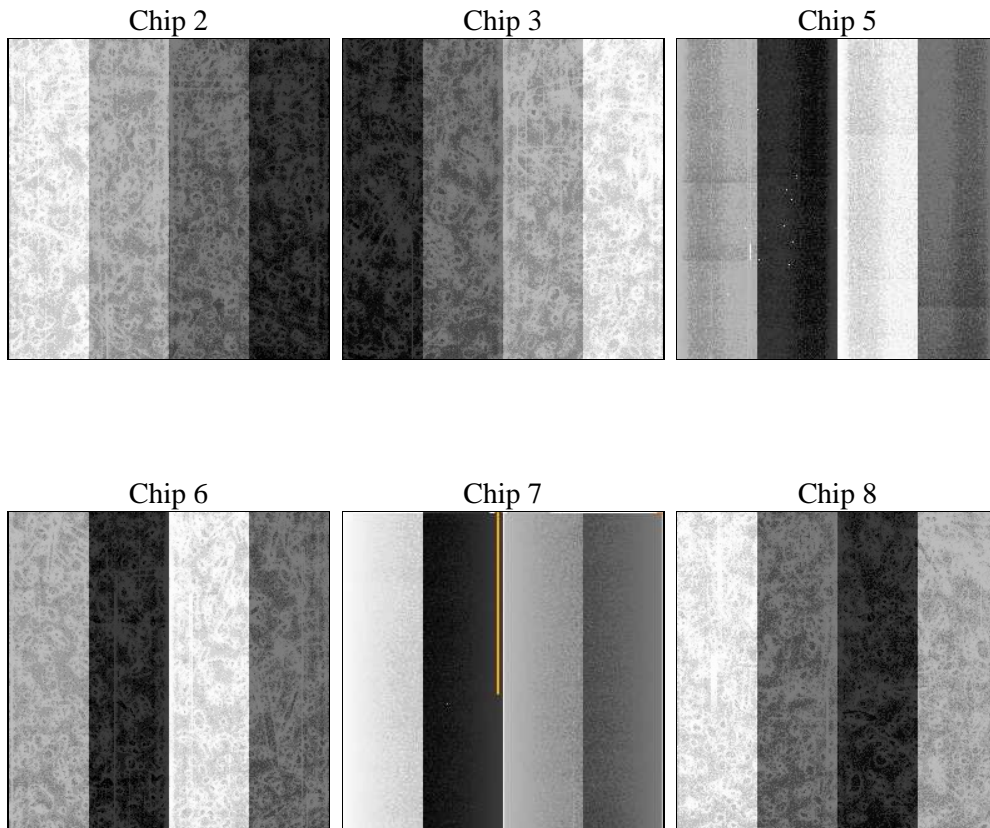
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	24732.513371445	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	24742.236242063	Sum of GTIs [s]
date	2009-12-14T09:30:04	Date and time of file creation	ontime3	24735.75432165	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	24735.754361577	Sum of GTIs [s]
			ontime6	24738.995251931	Sum of GTIs [s]
			ontime7	24732.513371445	Sum of GTIs [s]
			ontime8	24745.477142423	Sum of GTIs [s]
			l1events	1106271	Number of level 1 events

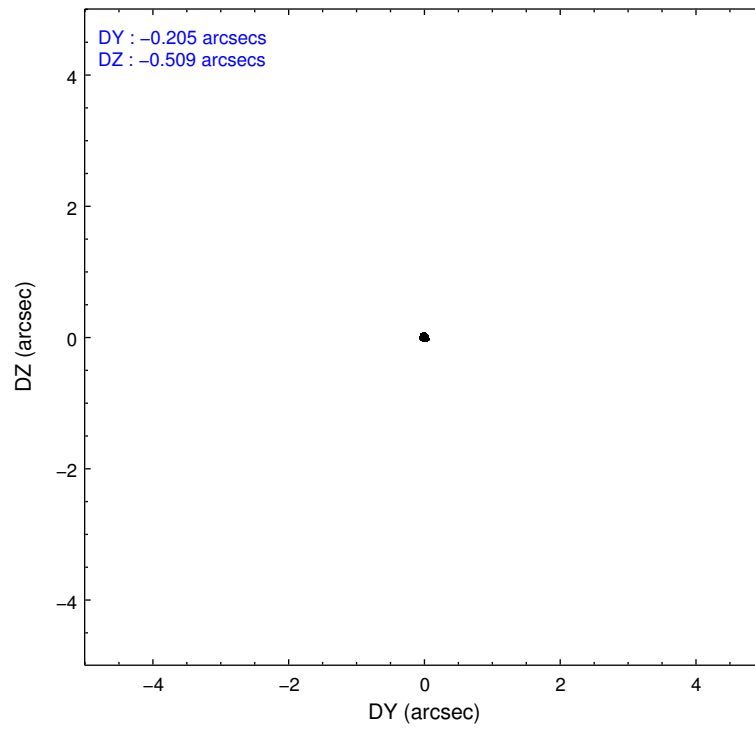
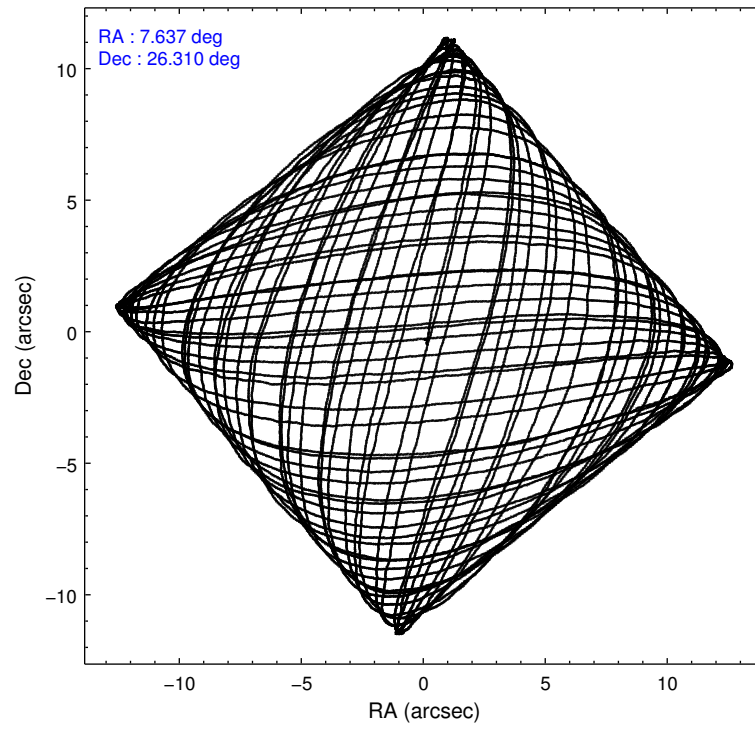
2.1.4 Events

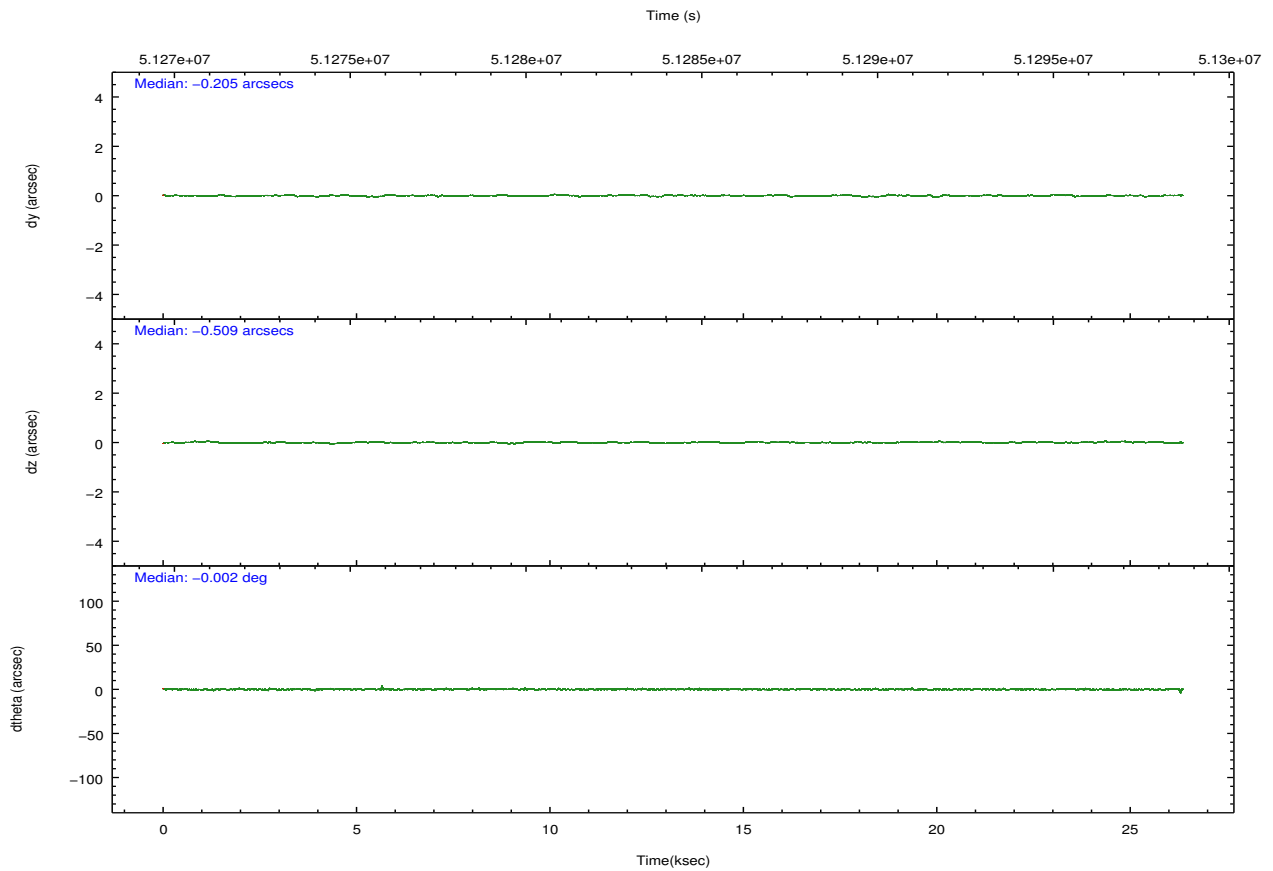
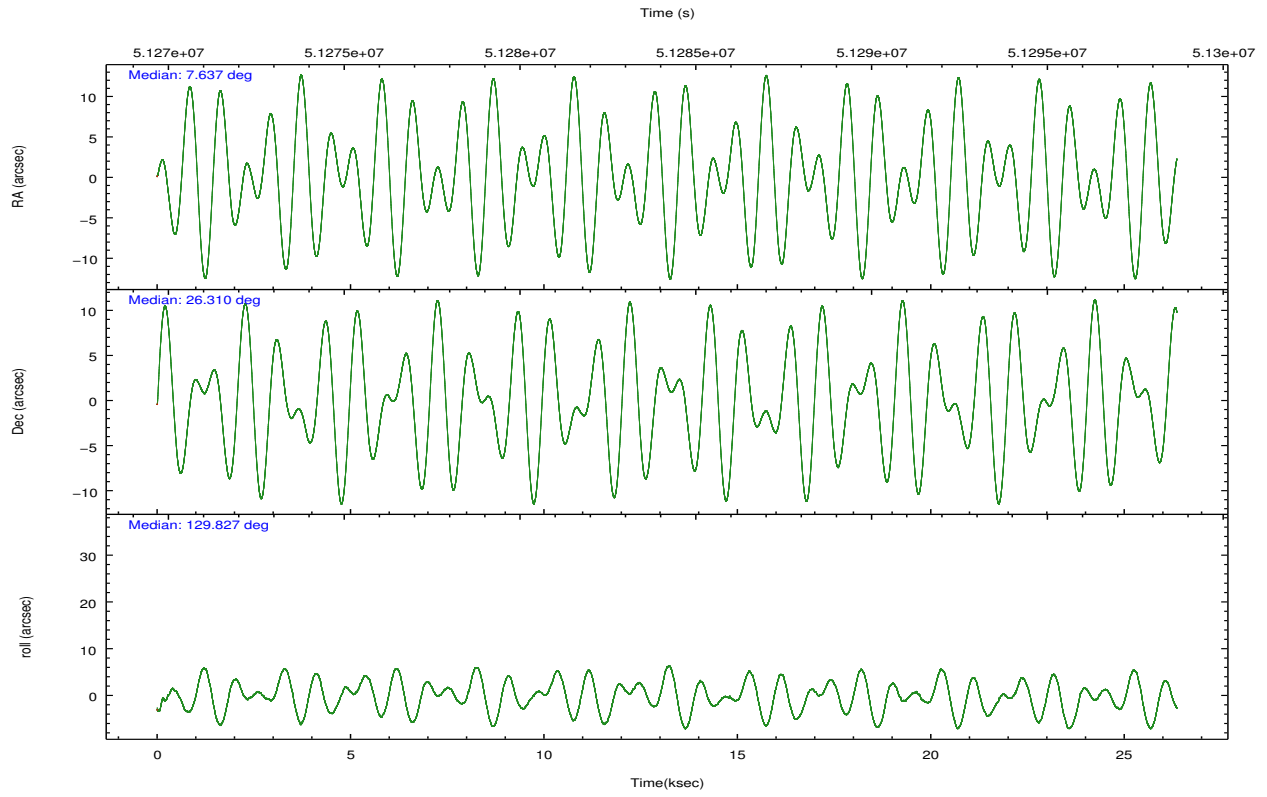
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	64354	64772	441558	77348	359595	98644	grade 0 events	16304	15822	99378	21295	22240	26463
rejected events	15043	15875	25665	18472	33574	19265		25%	24%	22%	27%	6%	26%
rejected %	23%	24%	5%	23%	9%	19%	grade 1 events	139	115	1101	118	178	215
								0%	0%	0%	0%	0%	0%
							grade 2 events	9869	9904	60072	11439	40113	17564
								15%	15%	13%	14%	11%	17%
							grade 3 events	4116	4091	22662	4481	23170	6517
								6%	6%	5%	5%	6%	6%
							grade 4 events	3752	3848	20232	3996	20442	6000
								5%	5%	4%	5%	5%	6%
							grade 5 events	14896	15753	22512	18344	33198	19039
								23%	24%	5%	23%	9%	19%
							grade 6 events	15278	15239	213654	17675	220191	22846
								23%	23%	48%	22%	61%	23%
							grade 7 events	0	0	1947	0	63	0
								0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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	7.665547	7.636790175354953	Subarray requested	NONE	NONE
Pointing Dec	26.300403	26.31044892139959	Alternating exposures requested	N	N
Pointing Roll	129.667735	129.8371080669941	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.865731118321573			
SIM defocus (mm)	0	-0.1814636570216768			
SIM translation stage pos (mm)	-190.132523	-190.1325231039672			
SIM translation stage offset (mm)	0	5.209593894051068e-07			
Observation start time	51271495.184000	51270830.183419			
Observation start date	1999-08-17T10:03:51	1999-08-17T09:53:50			
Observation end time	51296495.184000	51297490.434359			
Observation end date	1999-08-17T17:00:31	1999-08-17T17:18:10			
Read mode	TIMED	TIMED			

2.3 Aspect



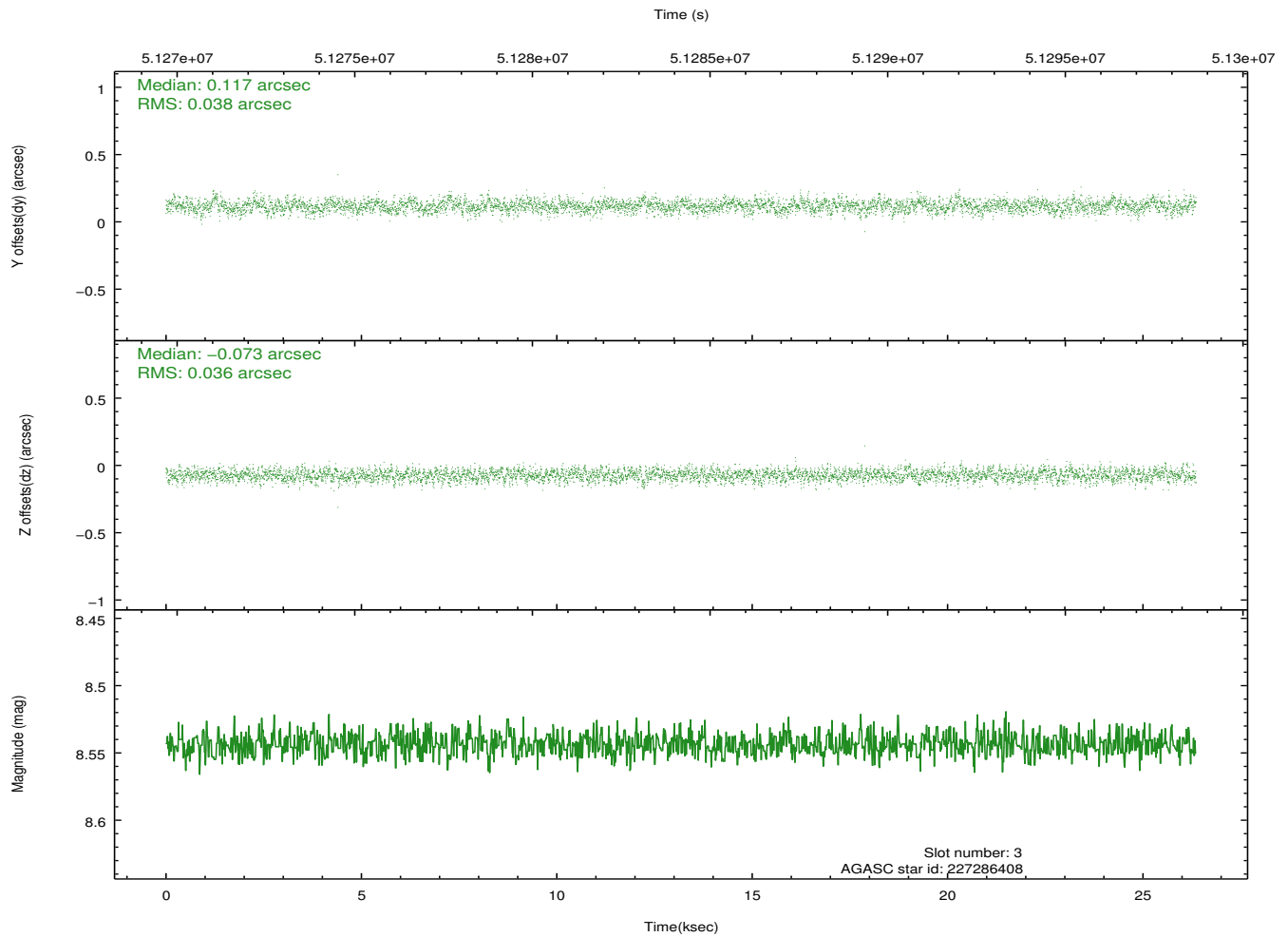
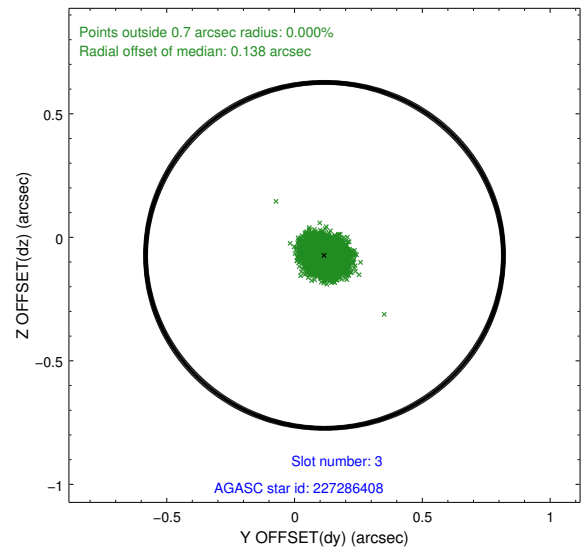
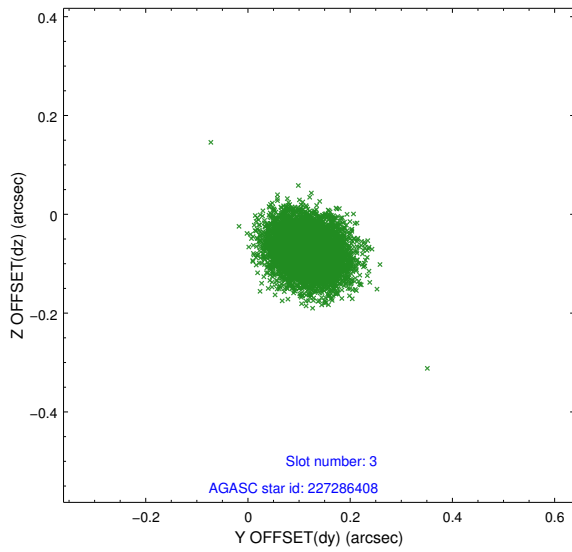


Slot Statistics

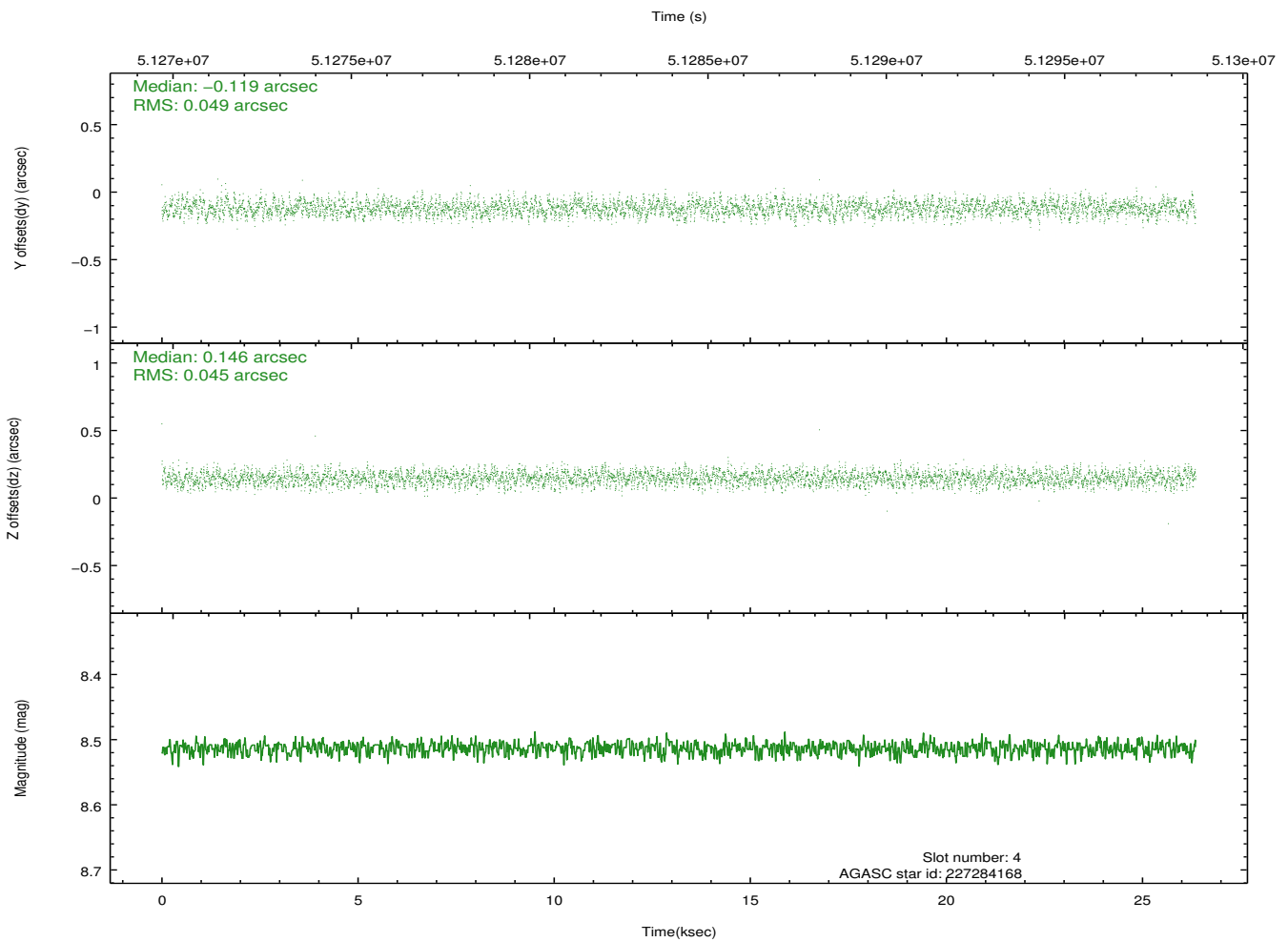
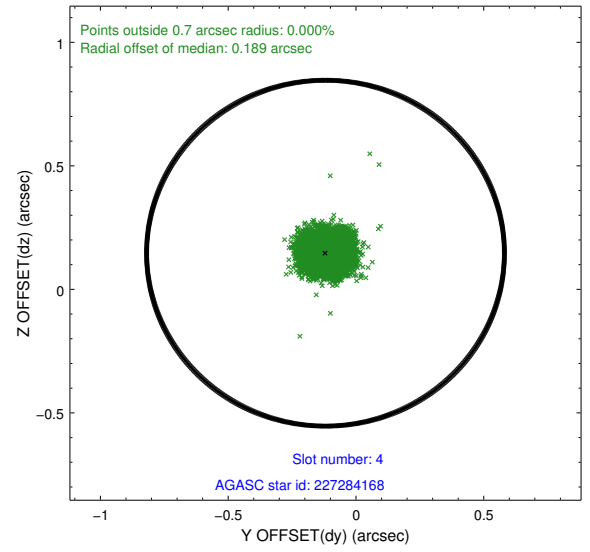
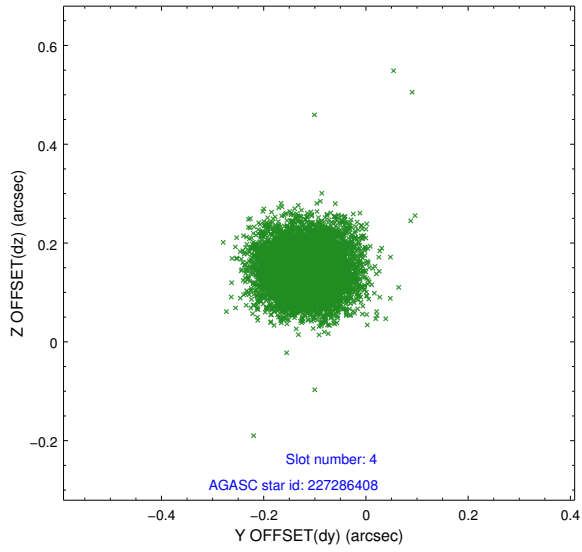
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
1	FID	ACIS-S-4	7.21	6420	0.135	0.005	0.005	0.009	0.000000	0.000000	2161.10	187.98
2	FID	ACIS-S-5	7.01	6420	-0.158	0.005	0.005	0.009	0.000000	0.000000	-1805.17	181.62
3	GUIDE	227286408	8.54	6419	0.117	-0.073	0.055	0.089	7.352499	26.495316	1185.21	327.89
4	GUIDE	227284168	8.51	6418	-0.119	0.146	0.071	0.112	7.338725	26.871683	2254.48	-505.14
5	GUIDE	227289528	9.24	6416	0.003	-0.073	0.080	0.126	6.878527	26.412714	1937.31	1690.52
6	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
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

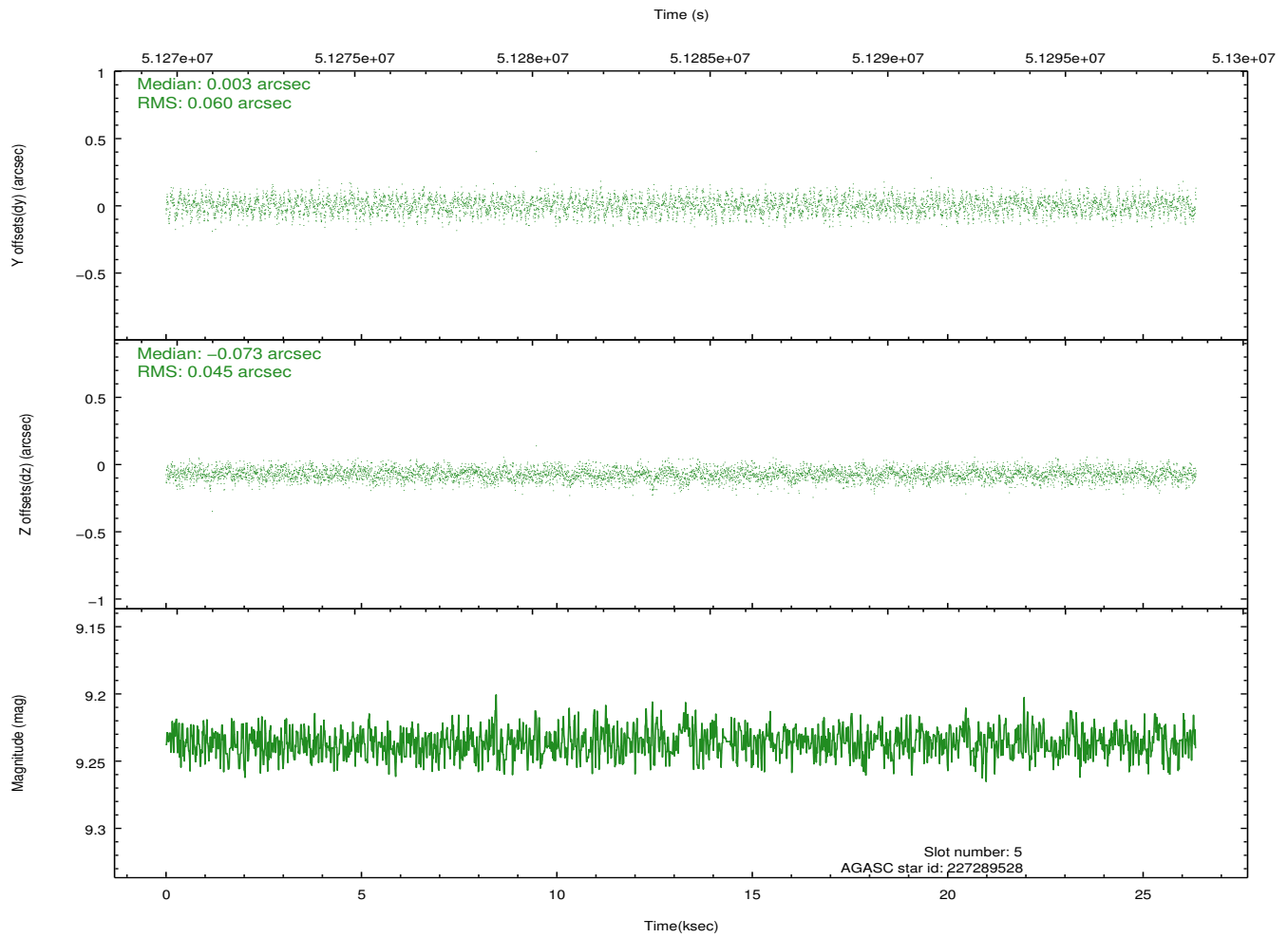
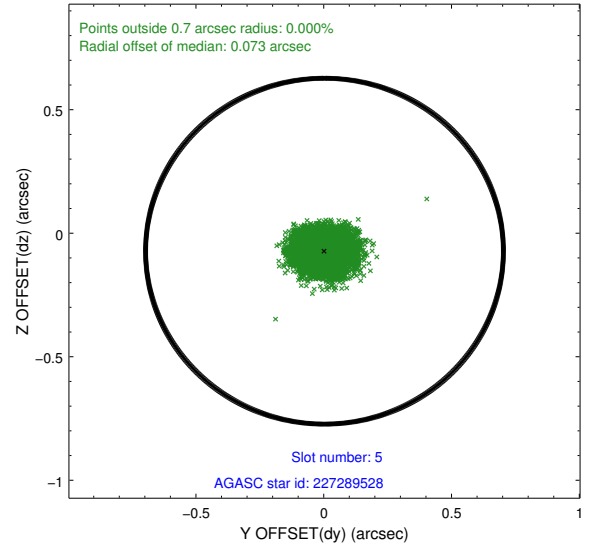
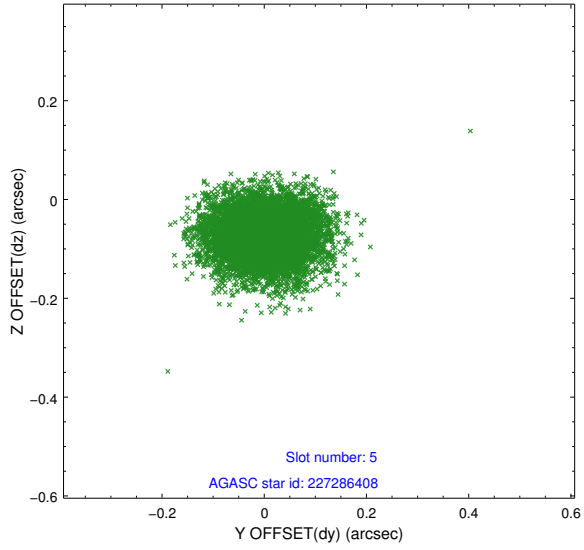
2.4.1 Slot 3



2.4.2 Slot 4

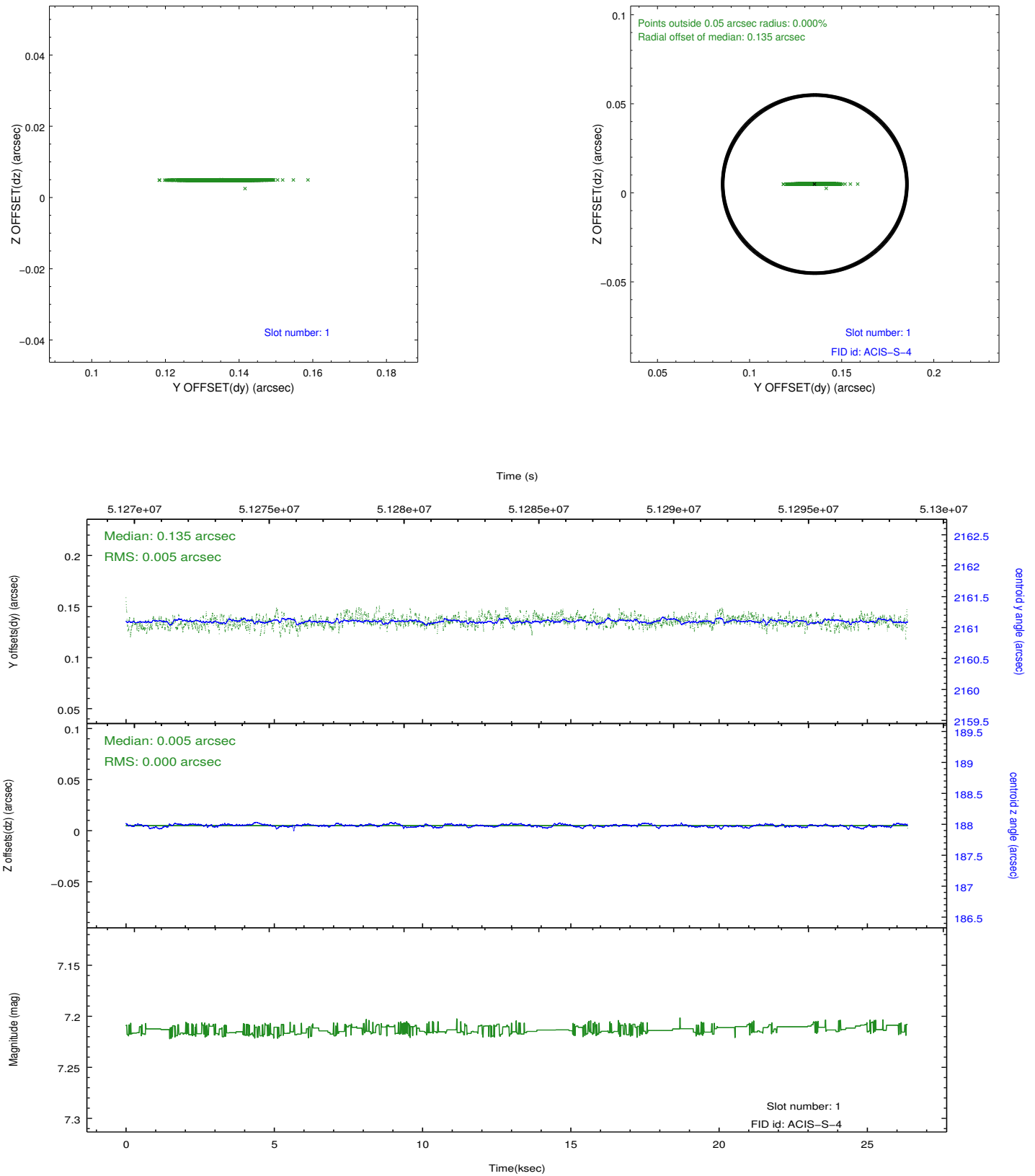


2.4.3 Slot 5

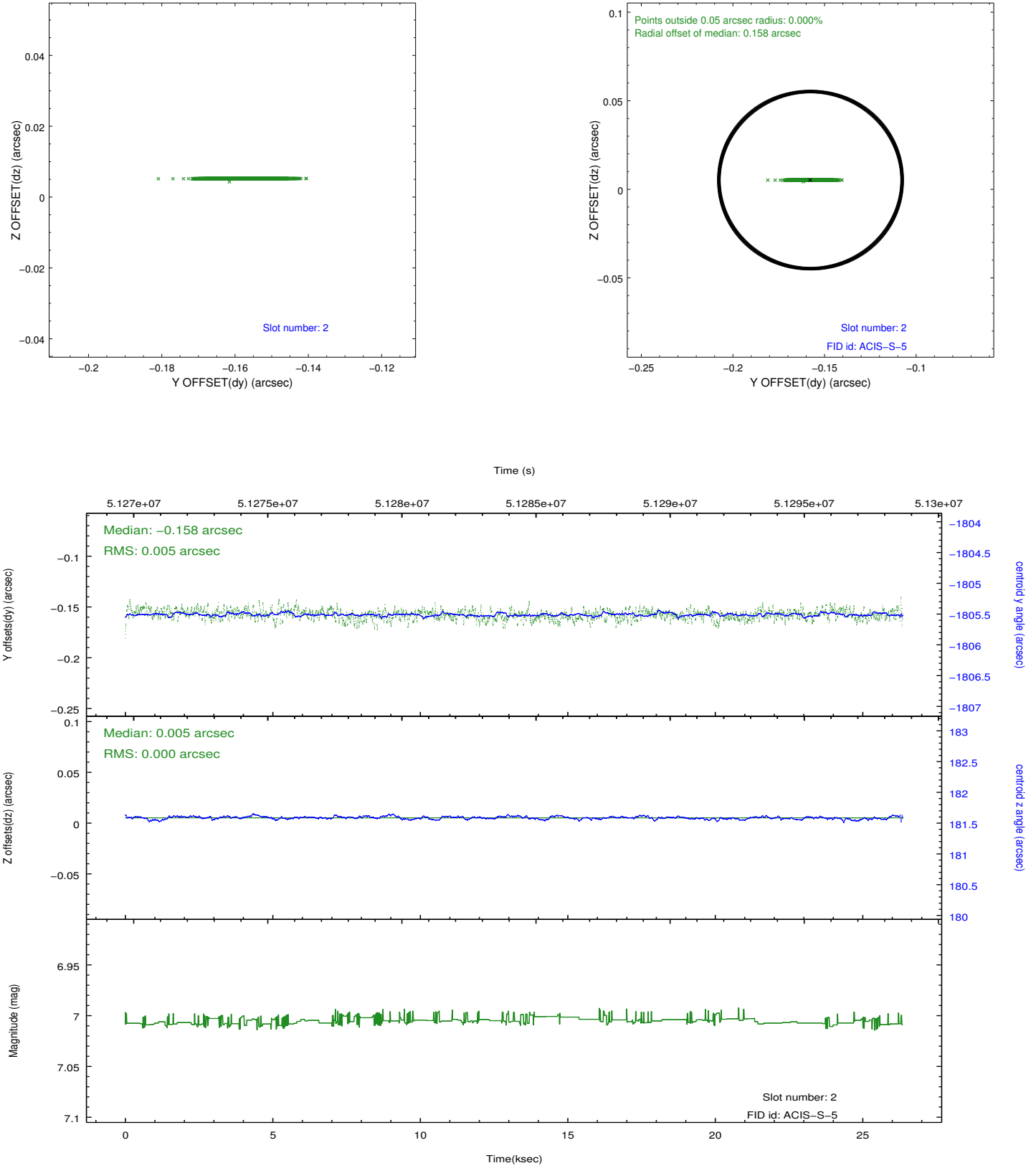


2.5 FID Slots

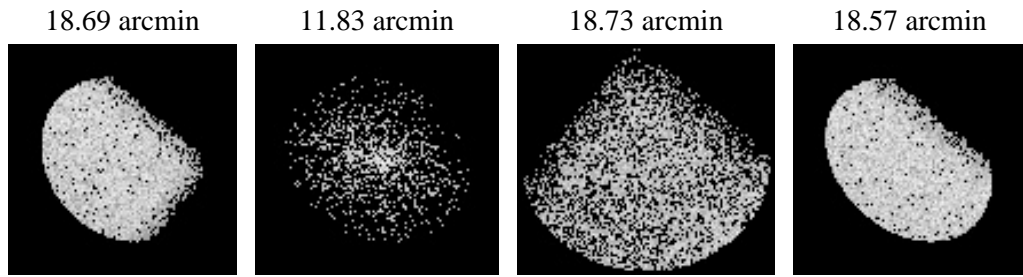
2.5.1 Slot 1



2.5.2 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.5

A.2 Comments

Due to software issues that affected the spacecraft load, 2 guide stars and one fid light were not acquired for this observation. This observation was taken very early in the mission while parameters and procedures were being optimized. There may be an effect on the aspect solution.

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Charge time for this ObsId remains at previous value of 24.5 ks, although with the current processing the charge time would have been 24.7 ksec.

===

A high radiation environment during this observation resulted in several periods of enhanced count rates throughout the observation. The investigator should take care to identify these periods by examining count rate vs time plot in mtlacis plot page with this report.

===

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.