

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 403 - L2 Version 4

Chandra X-Ray Center

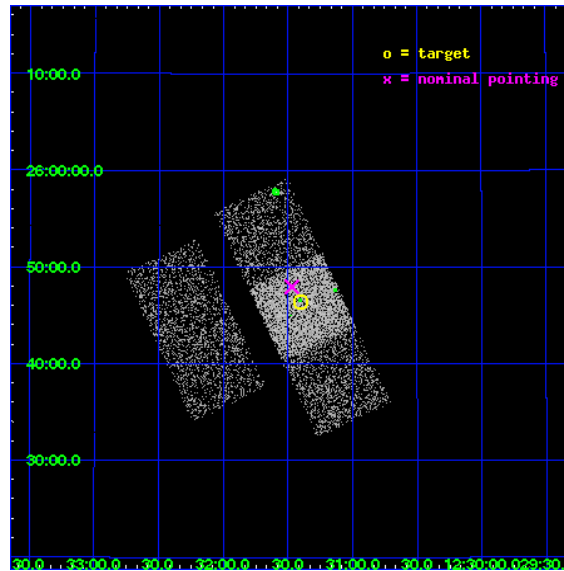
L2 Processing Date : Nov 26 2009

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1 Front

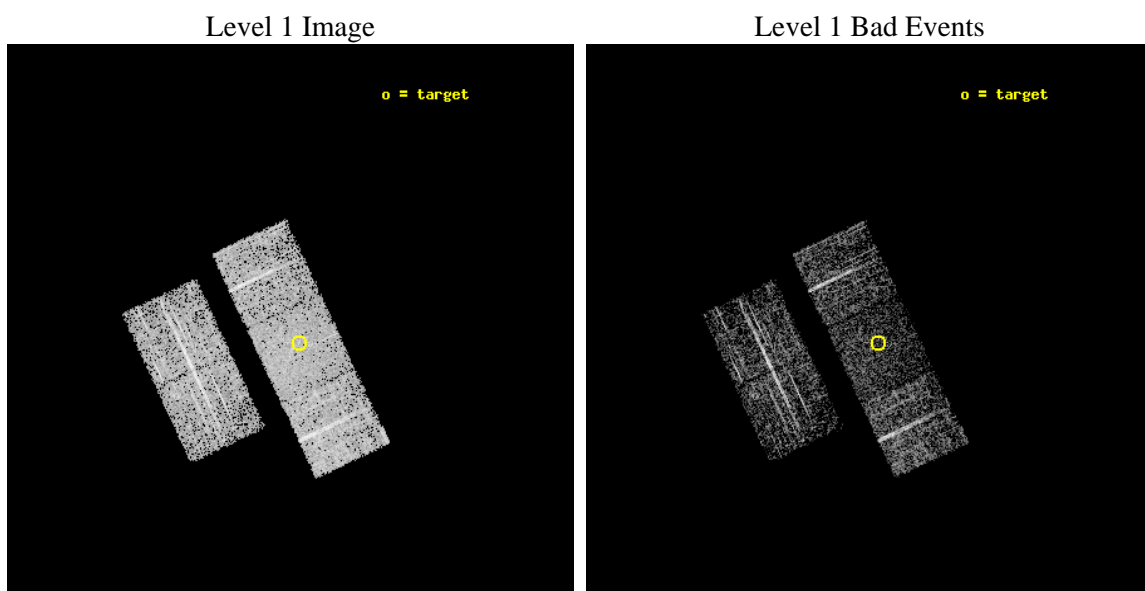
seq_num	700075	Sequence number
obs_id	403	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Prof Gordon Garmire	Principal investigator
object	NGC 4494	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.85125	Observer's specified target RA
dec_targ	25.773333	Observer's specified target Dec
ra_nom	187.86743891155	Nominal RA
dec_nom	25.799380237218	Nominal Dec
roll_nom	64.862036966966	Nominal Roll
revision	4	Processing version of data
ontime	1778.6819517985	Sum of GTIs [s]
livetime	1756.1592099311	Livetime [s]
ontime2	1778.6409117952	Sum of GTIs [s]
ontime3	1778.5588317961	Sum of GTIs [s]
ontime6	1778.5998717993	Sum of GTIs [s]
ontime7	1778.6819517985	Sum of GTIs [s]
ontime8	1778.5178117231	Sum of GTIs [s]
l2events	11562	Number of level 2 events



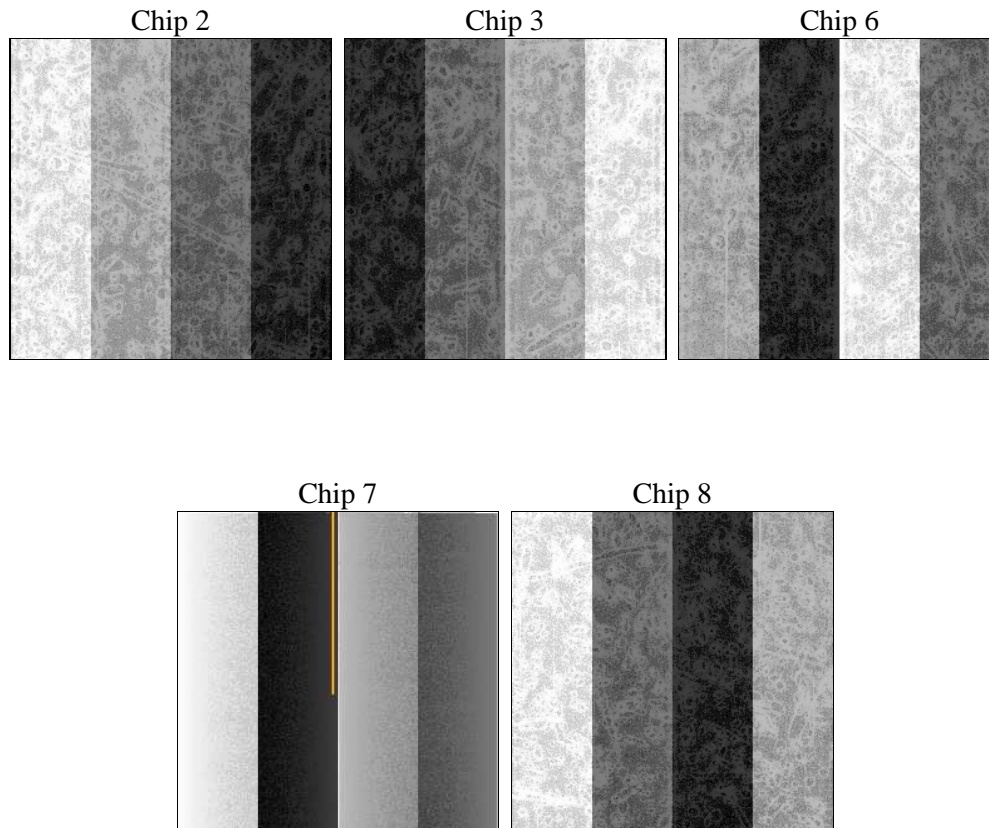
2 OBI

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	8.1.1	ASCDS version number	ontime	1778.6819517985	Sum of GTIs [s]
caldsver	4.1.4	 	ontime2	1778.6409117952	Sum of GTIs [s]
date	2009-11-26T06:58:14	Date and time of file creation	ontime3	1778.5588317961	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1778.5998717993	Sum of GTIs [s]
			ontime7	1778.6819517985	Sum of GTIs [s]
			ontime8	1778.5178117231	Sum of GTIs [s]
			l1events	82664	Number of level 1 events

2.1.4 Events

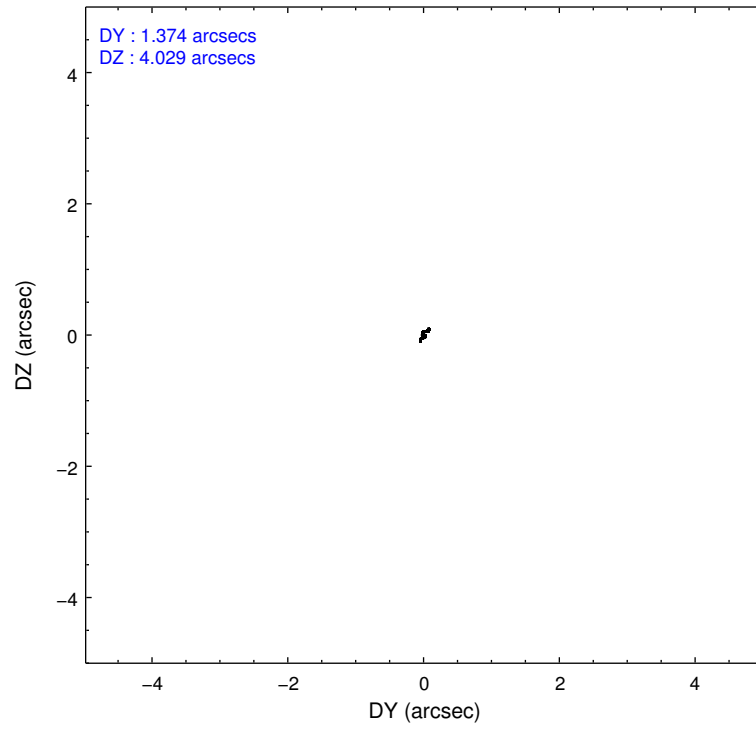
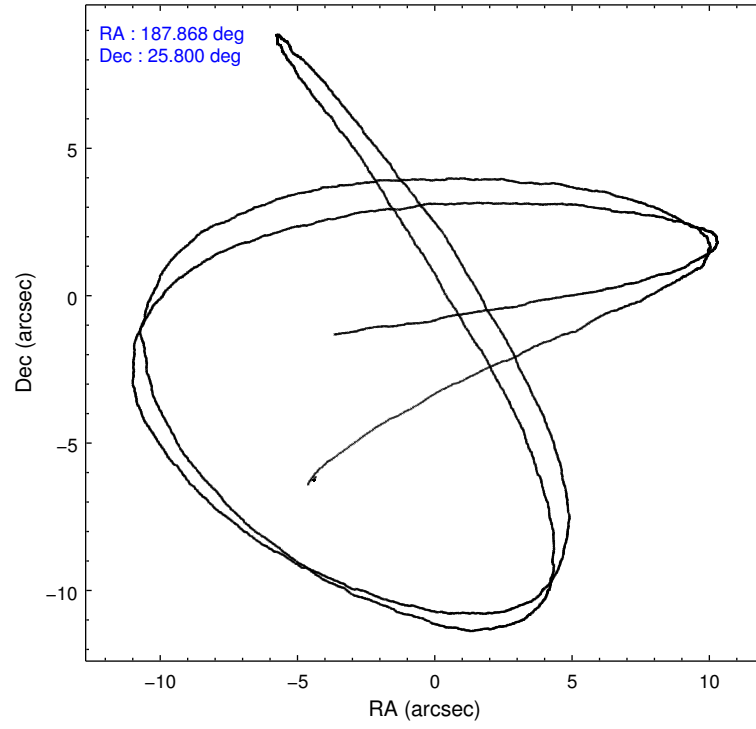
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	16014	14900	15815	16293	19642
rejected events	14610	13521	14285	9911	16898
rejected %	91%	90%	90%	60%	86%

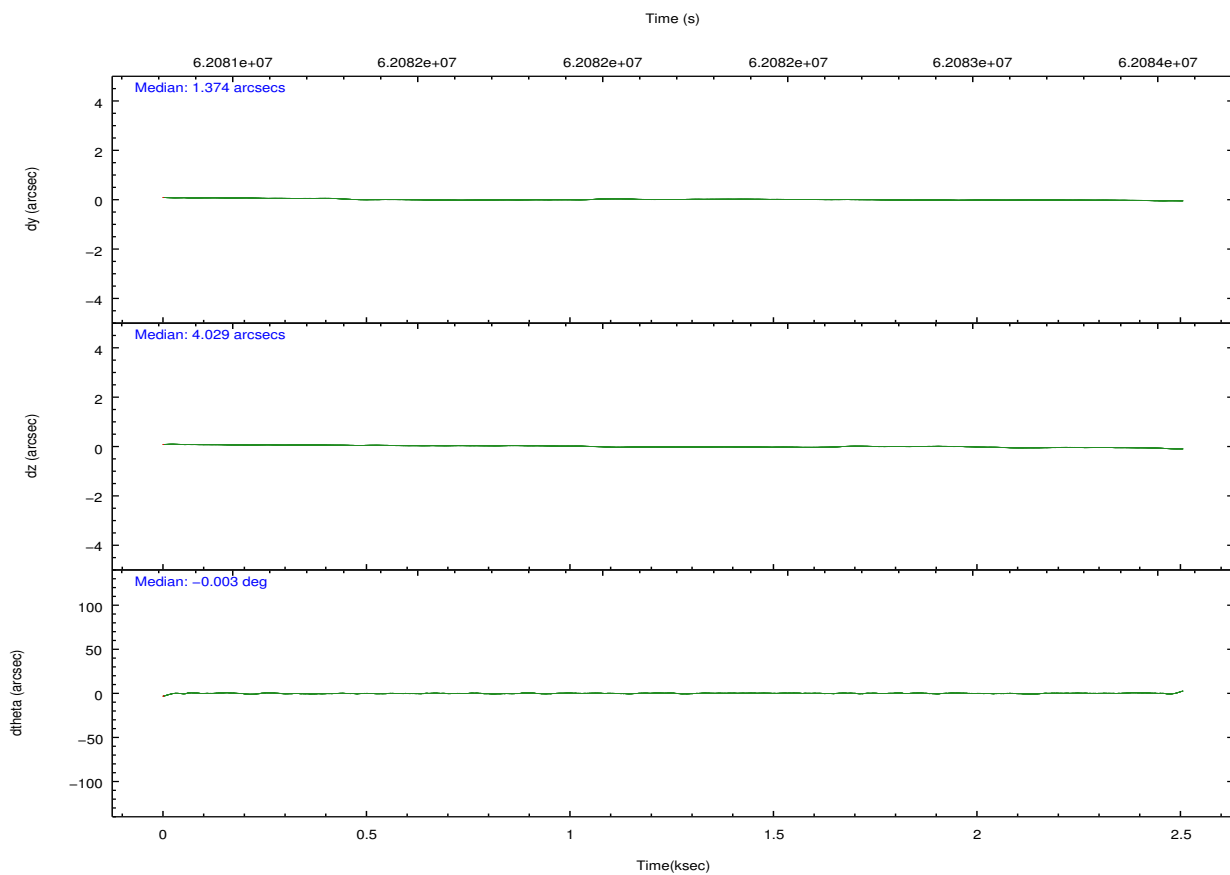
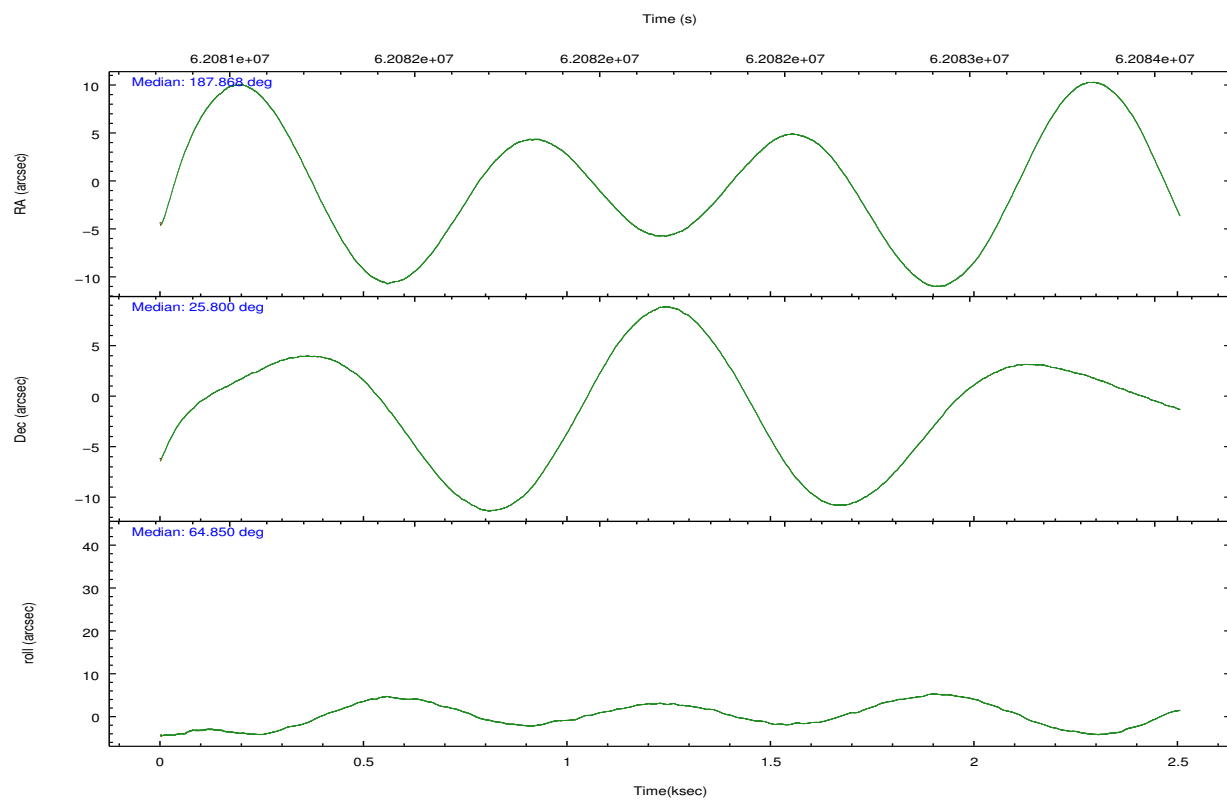
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	340	289	336	487	558
	2%	1%	2%	2%	2%
grade 1 events	2	4	3	10	6
	0%	0%	0%	0%	0%
grade 2 events	572	547	623	1444	959
	3%	3%	3%	8%	4%
grade 3 events	84	83	83	352	196
	0%	0%	0%	2%	0%
grade 4 events	78	83	92	314	196
	0%	0%	0%	1%	0%
grade 5 events	243	264	367	953	374
	1%	1%	2%	5%	1%
grade 6 events	332	383	398	3794	851
	2%	2%	2%	23%	4%
grade 7 events	14363	13247	13913	8939	16502
	89%	88%	87%	54%	84%

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	187.869668	187.867438911545	Subarray requested	NONE	NONE
Pointing Dec	25.771757	25.79938023721775	Alternating exposures requested	N	N
Pointing Roll	64.704469	64.86203696696616	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	62081441.184000	62080262.199453			
Observation start date	1999-12-20T12:49:37	1999-12-20T12:31:02			
Observation end time	62083441.184000	62083673.399577			
Observation end date	1999-12-20T13:22:57	1999-12-20T13:27:53			
Read mode	TIMED	TIMED			

2.3 Aspect



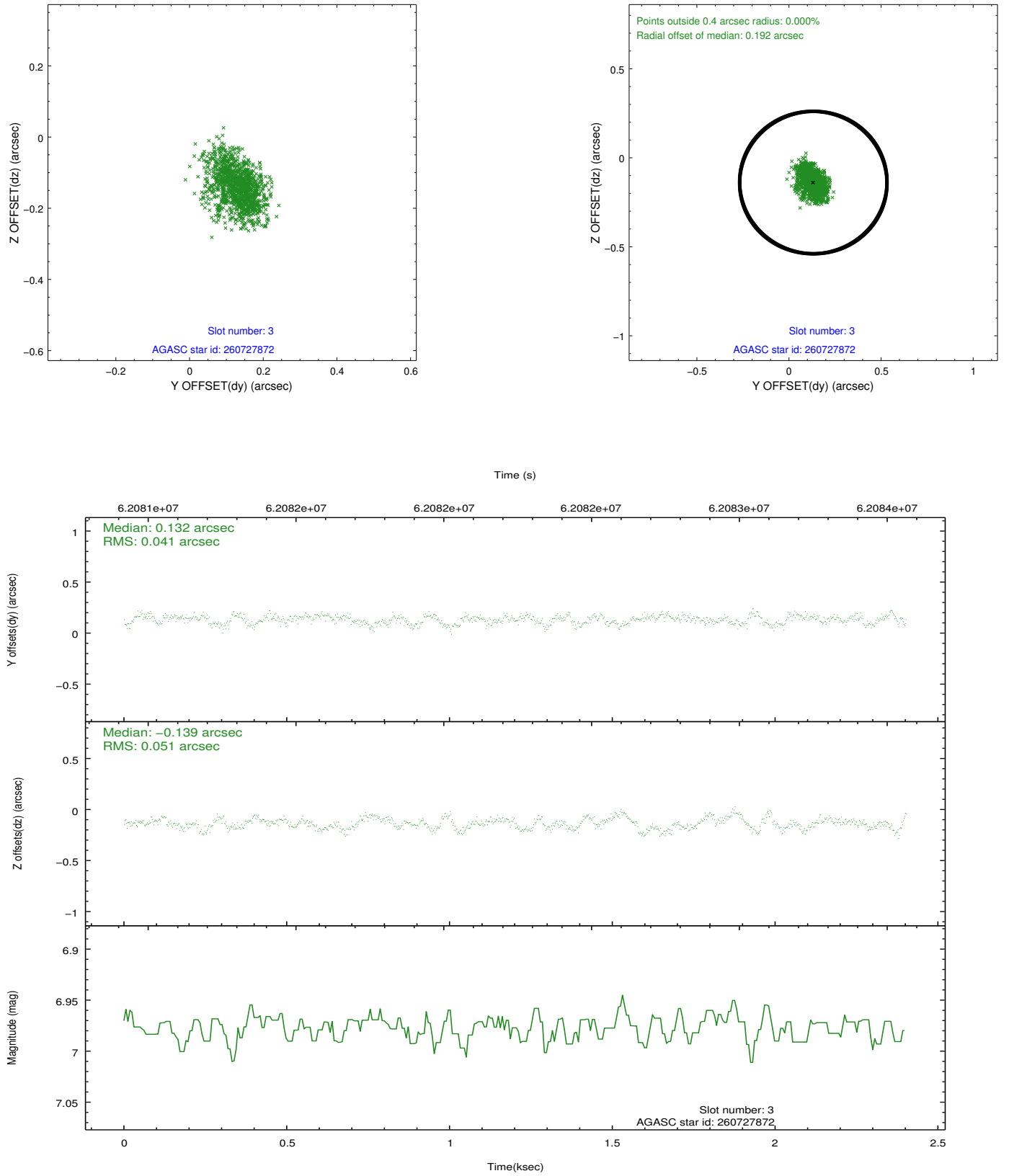


Slot Statistics

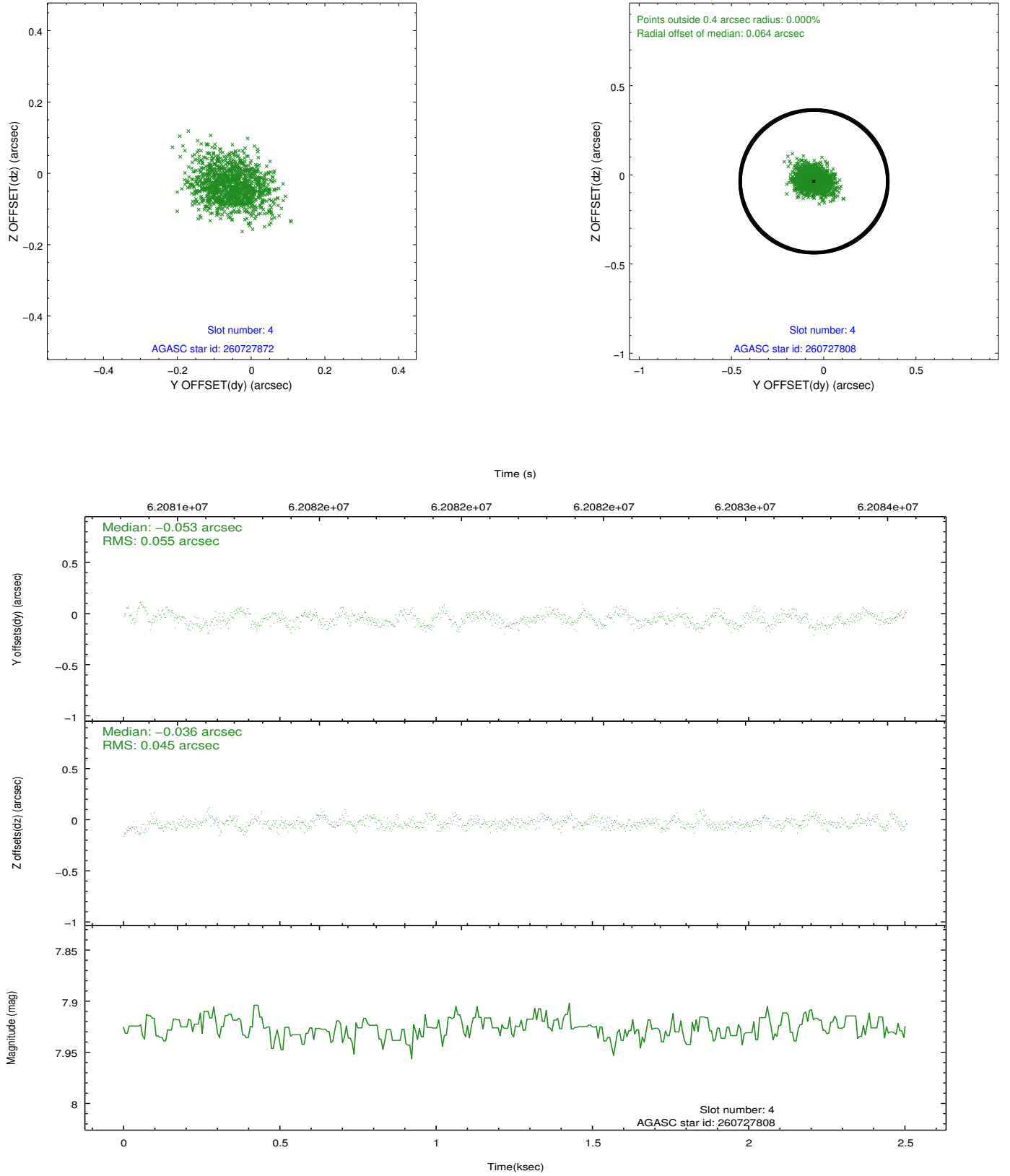
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.13	1223	-0.008	-0.062	0.006	0.009	0.000000	0.000000	-754.02	-1725.16
1	FID	ACIS-S-4	7.22	1223	0.012	0.020	0.004	0.008	0.000000	0.000000	2158.77	182.09
2	FID	ACIS-S-5	7.26	1223	-0.035	0.050	0.005	0.009	0.000000	0.000000	-1805.29	177.25
3	GUIDE	260727872	6.98	1172	0.132	-0.139	0.069	0.114	187.185684	25.899318	-527.38	2201.89
4	GUIDE	260727808	7.93	1223	-0.053	-0.036	0.075	0.122	187.491479	26.120798	613.56	1645.68
5	GUIDE	260717160	9.25	1221	-0.072	0.163	0.112	0.183	188.060460	25.970238	909.80	-250.17
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

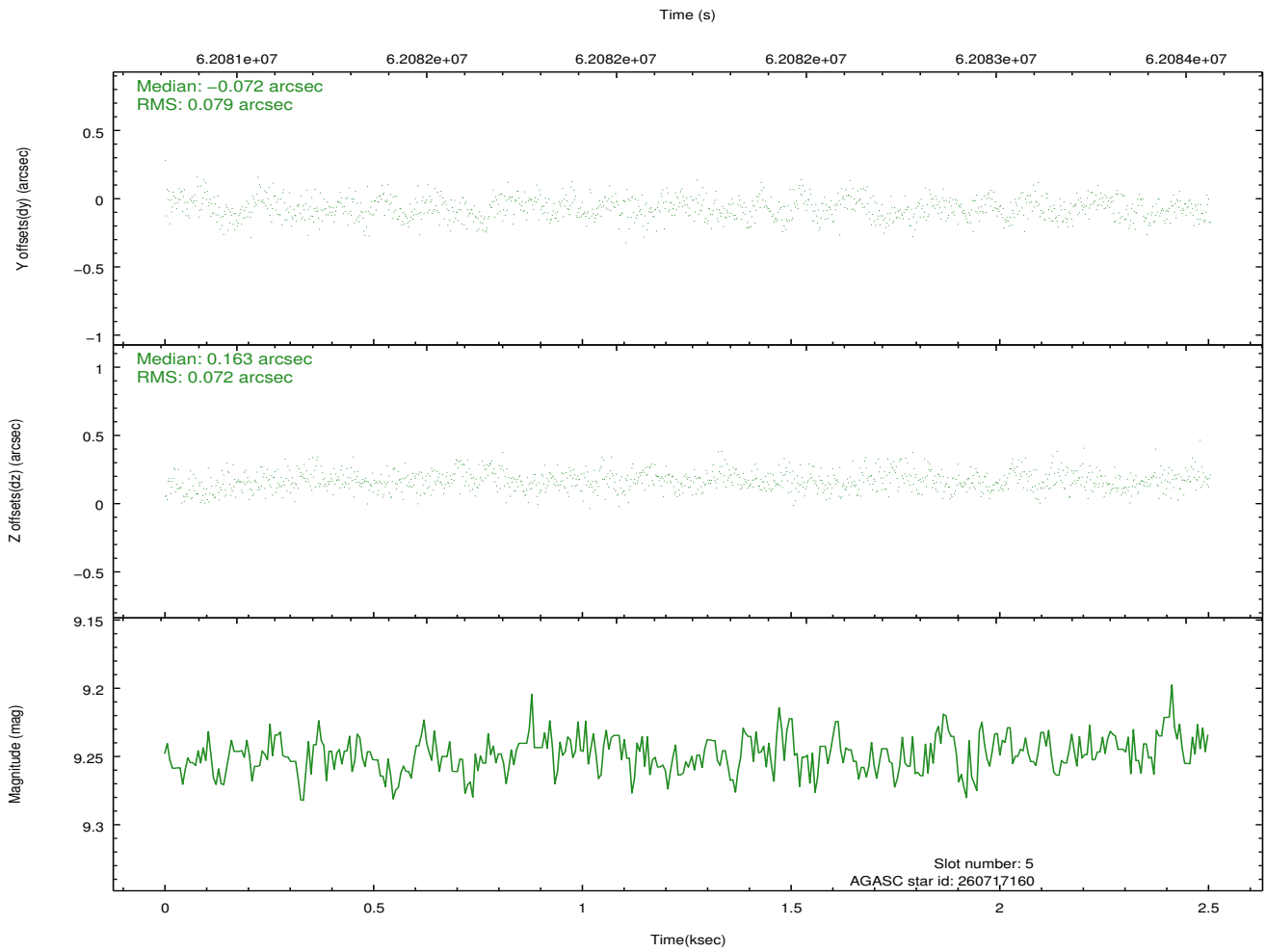
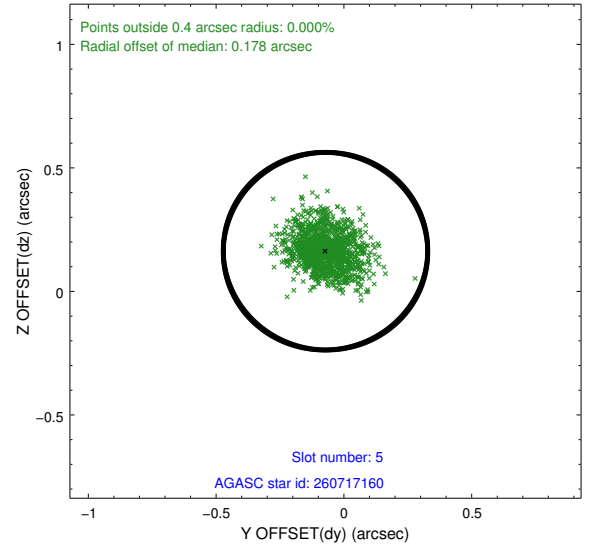
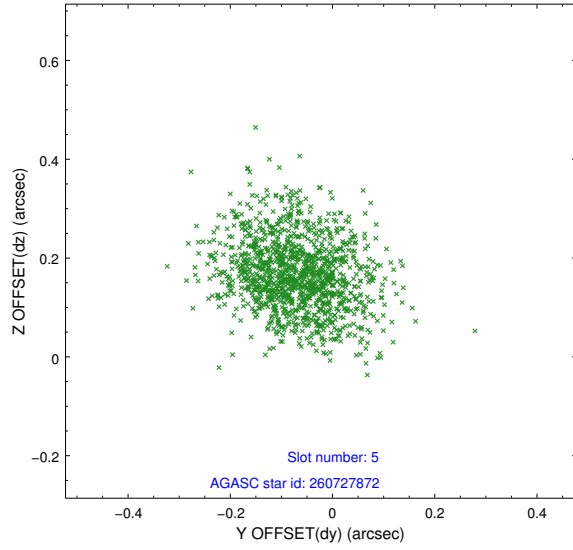
2.4.1 Slot 3



2.4.2 Slot 4

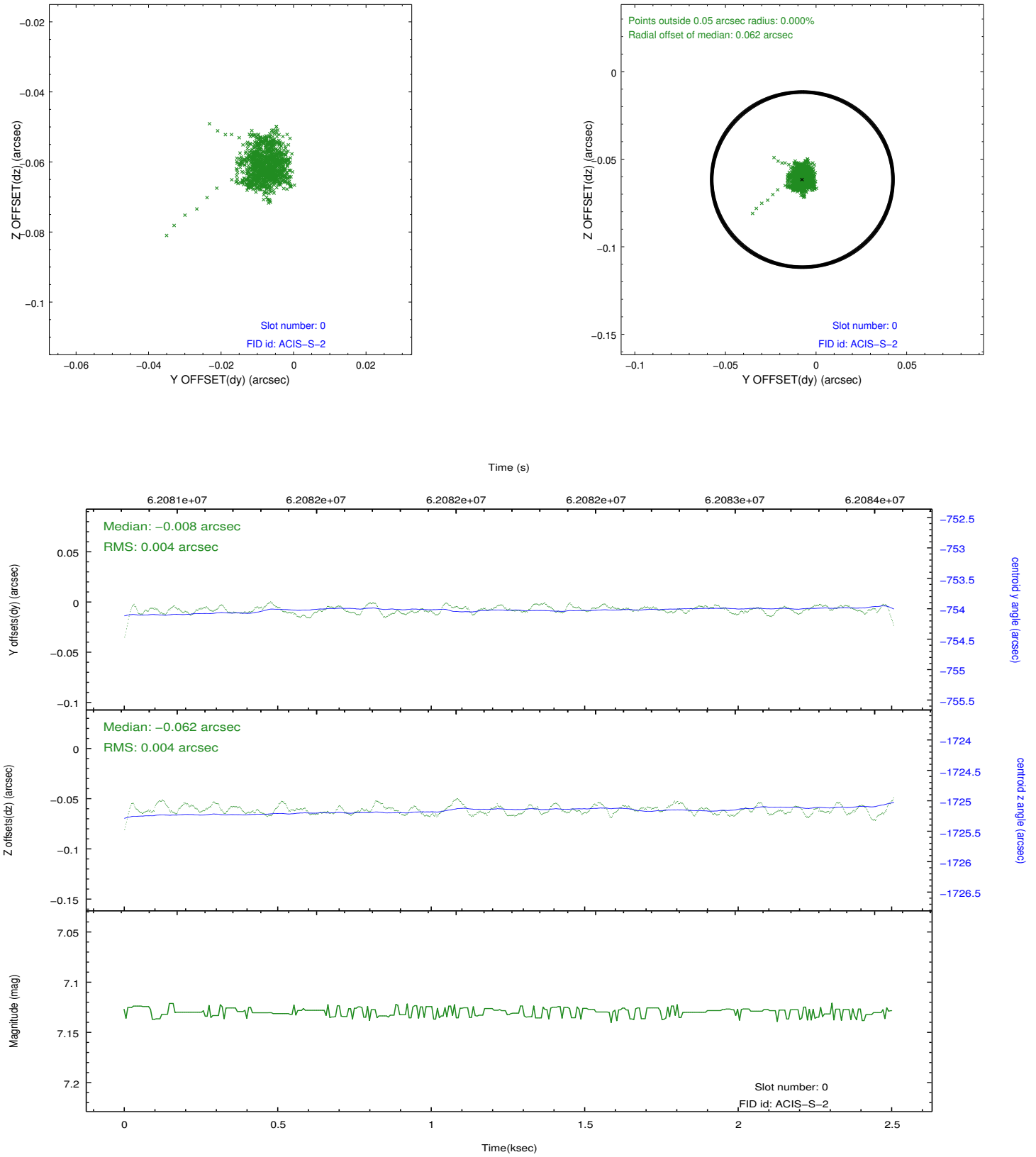


2.4.3 Slot 5

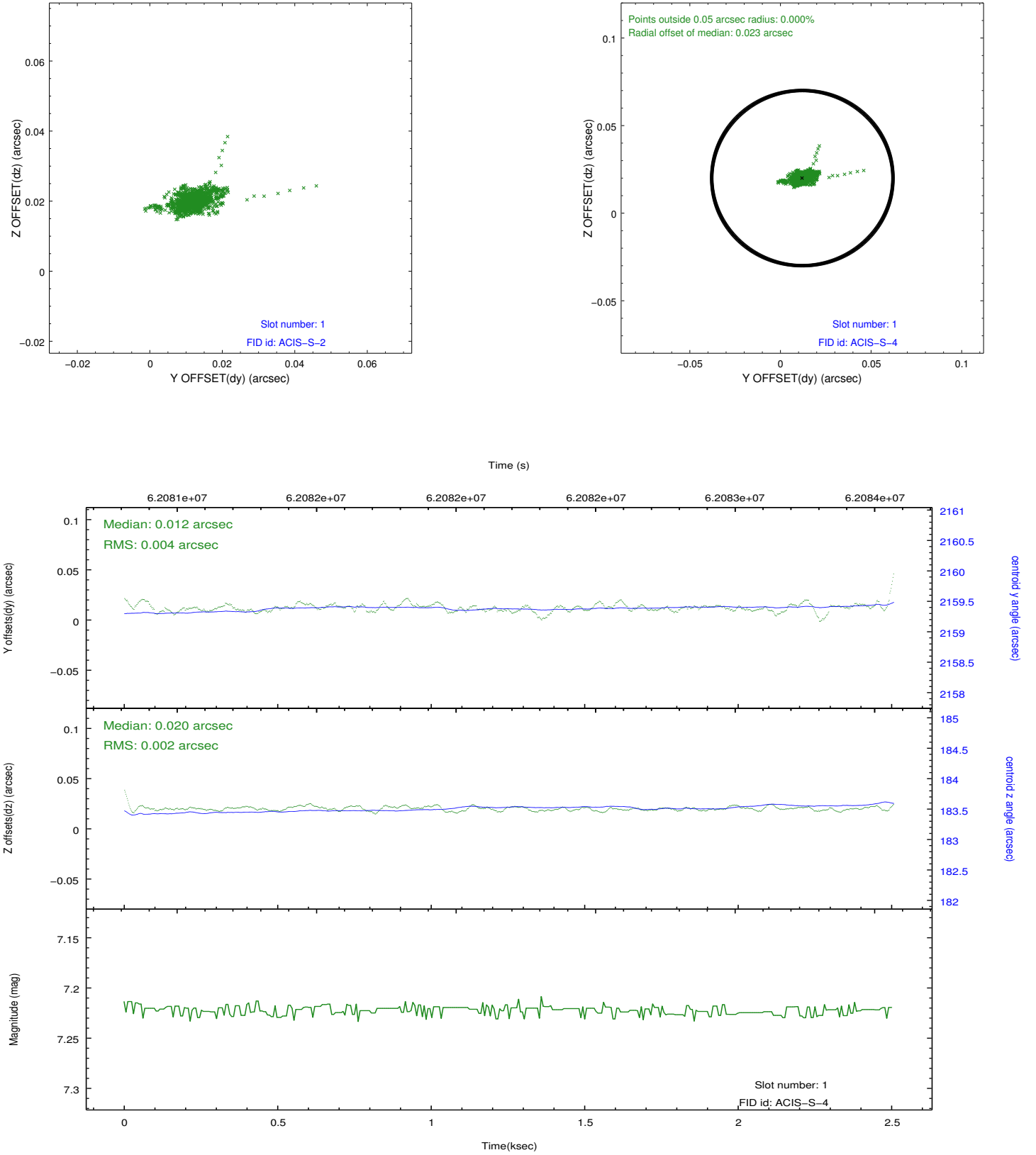


2.5 FID Slots

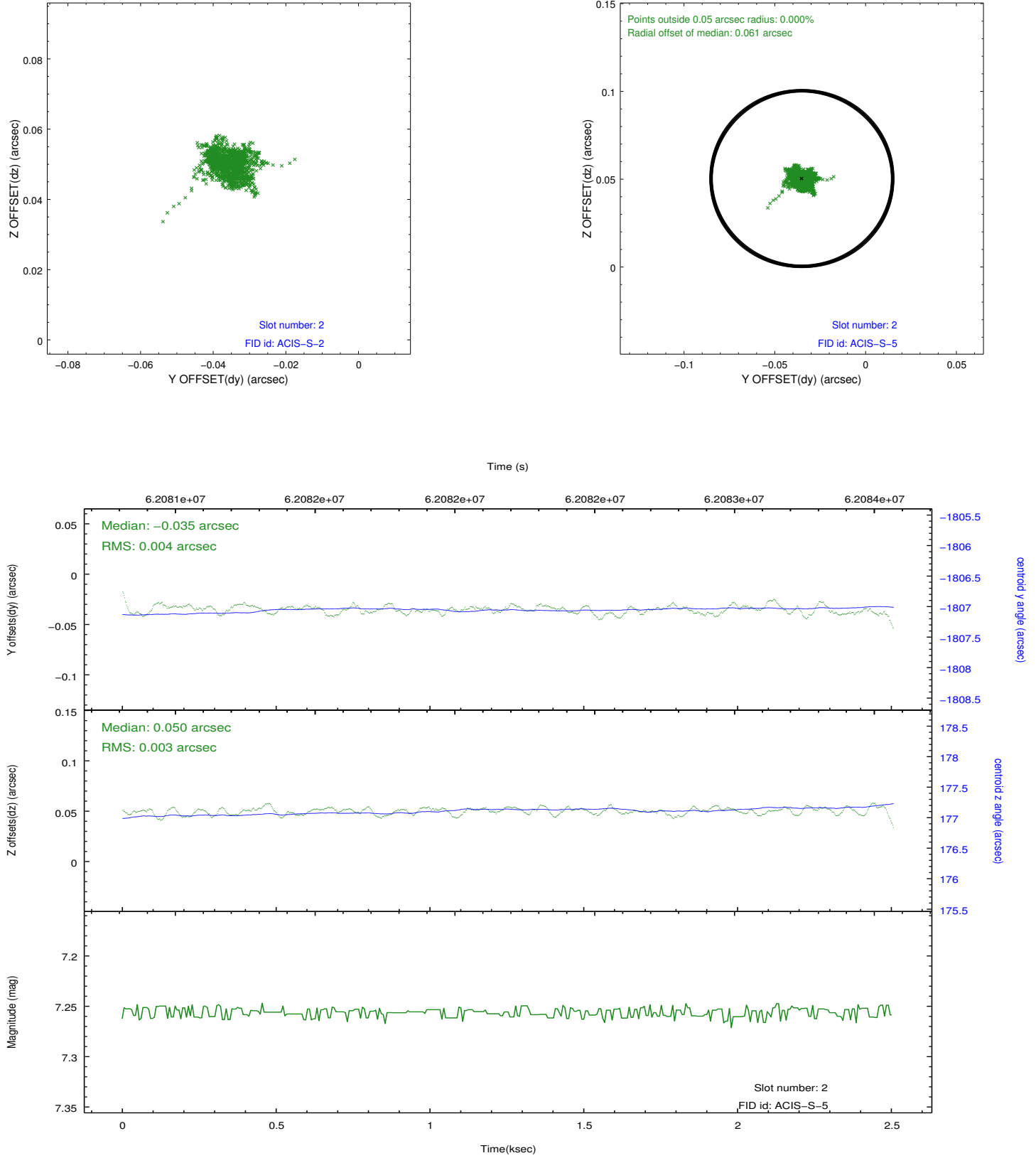
2.5.1 Slot 0



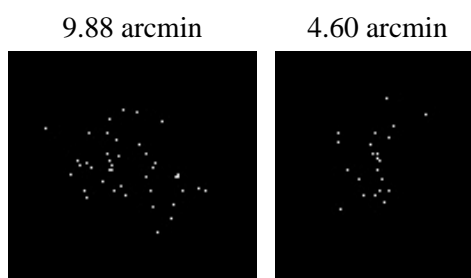
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.779

A.2 Comments

Guide star slots 6 and 7 were not utilized in this observation.

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The focal plane temperature is approximately -110 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.