

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 125 - L2 Version 4
Chandra X-Ray Center

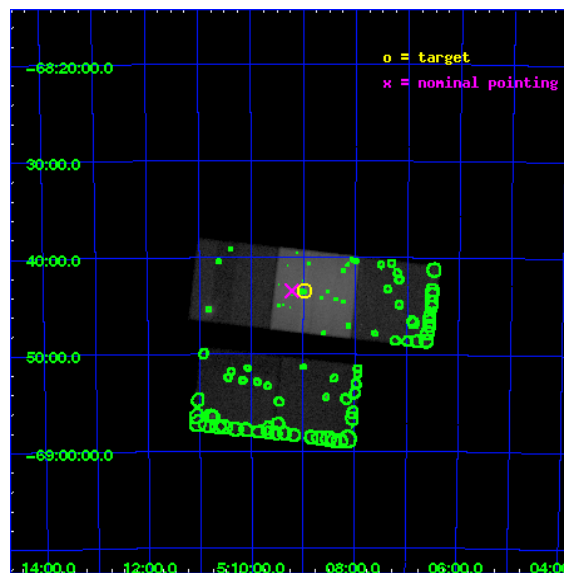
L2 Processing Date : Nov 25 2009

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1 Front

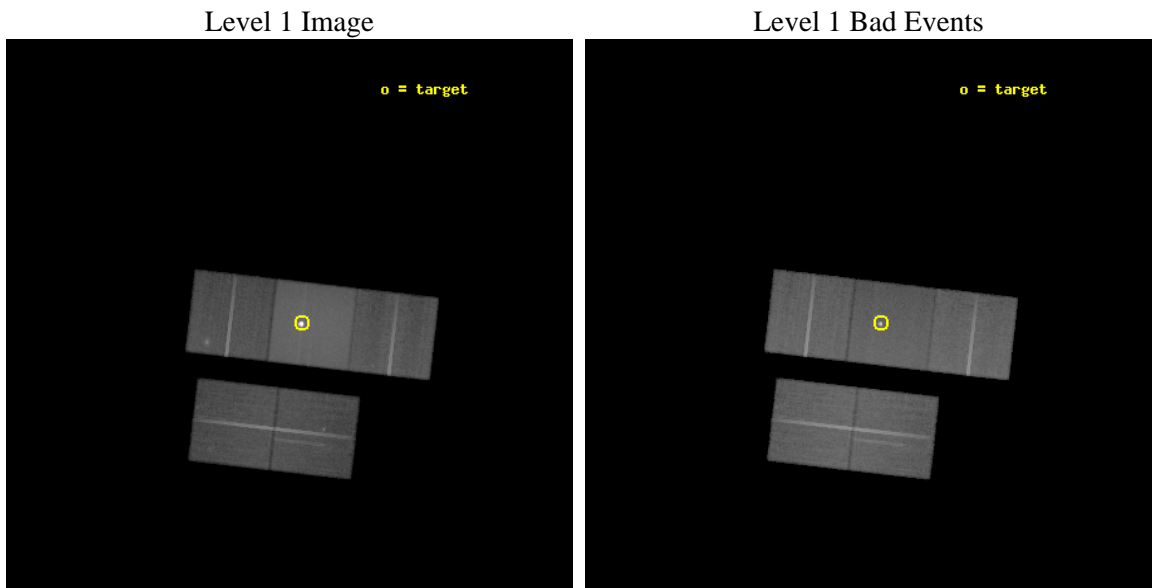
seq_num	500012	Sequence number
obs_id	125	Observation id
title	ACIS STUDY OF THE LMC SUPERNOVA REMNANT N103B	Proposal title
observer	Prof Gordon Garmire	Principal investigator
object	SNR 509.0-68.7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	77.245833	Observer's specified target RA
dec_targ	-68.725	Observer's specified target Dec
ra_nom	77.304479644721	Nominal RA
dec_nom	-68.724517593367	Nominal Dec
roll_nom	6.5922297718446	Nominal Roll
revision	4	Processing version of data
ontime	37164.800034612	Sum of GTIs [s]
livetime	36694.196958618	Livetime [s]
ontime2	37164.800034612	Sum of GTIs [s]
ontime3	37164.800034612	Sum of GTIs [s]
ontime6	37164.800034612	Sum of GTIs [s]
ontime7	37164.800034612	Sum of GTIs [s]
ontime8	37164.800034612	Sum of GTIs [s]
l2events	844951	Number of level 2 events



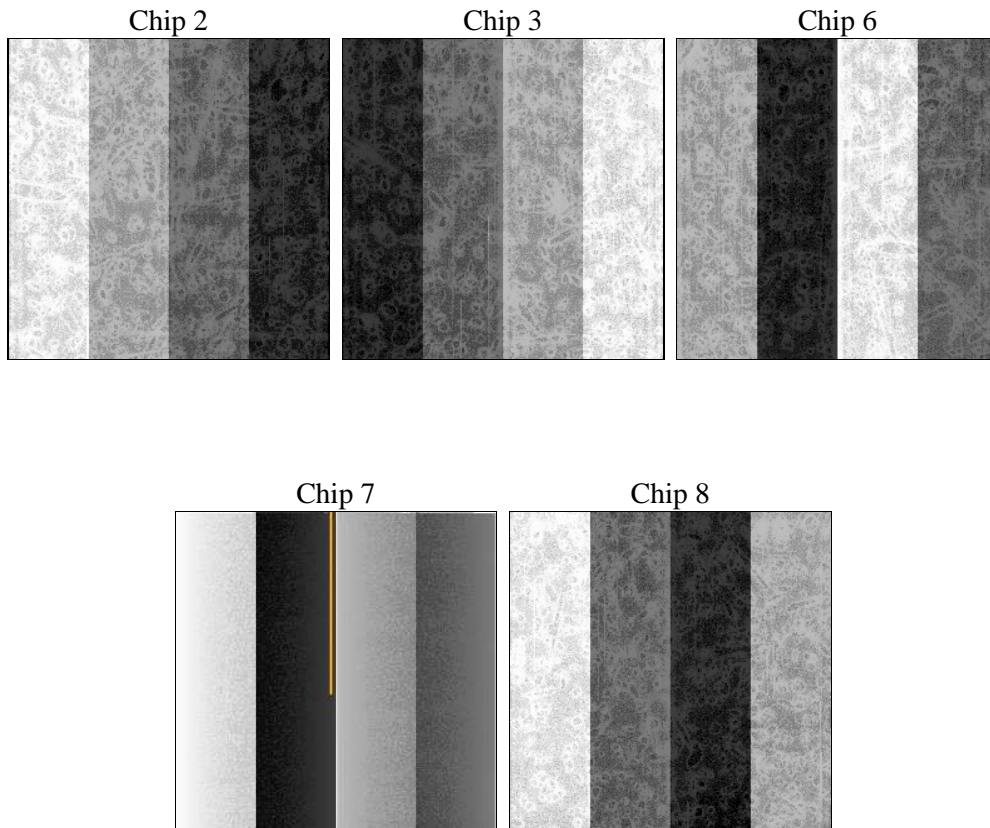
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	37164.800034612	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	37164.800034612	Sum of GTIs [s]
date	2009-11-25T09:30:16	Date and time of file creation	ontime3	37164.800034612	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	37164.800034612	Sum of GTIs [s]
			ontime7	37164.800034612	Sum of GTIs [s]
			ontime8	37164.800034612	Sum of GTIs [s]
			l1events	2382989	Number of level 1 events

2.1.4 Events

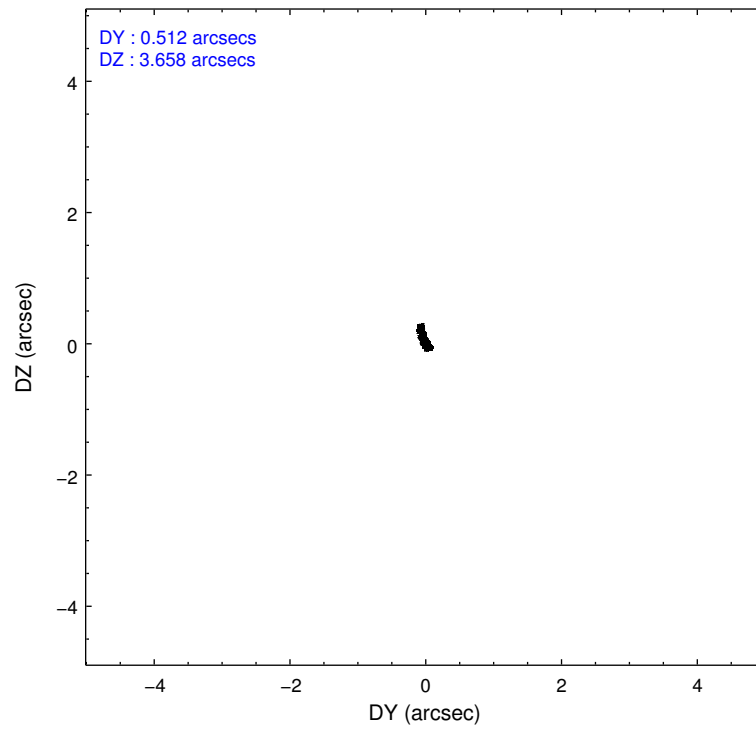
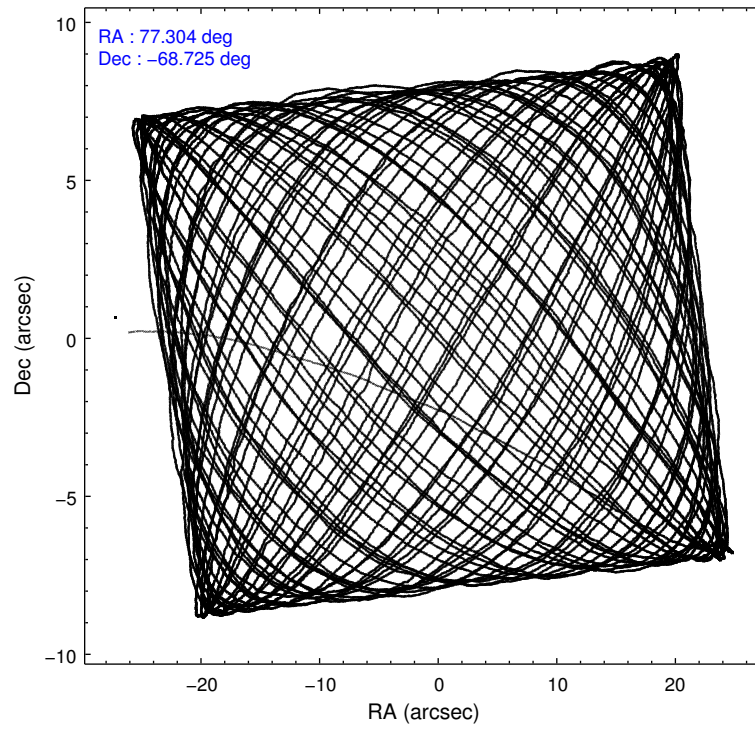
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	348888	339322	355417	915938	423424
rejected events	305519	295493	295699	261830	320044
rejected %	87%	87%	83%	28%	75%

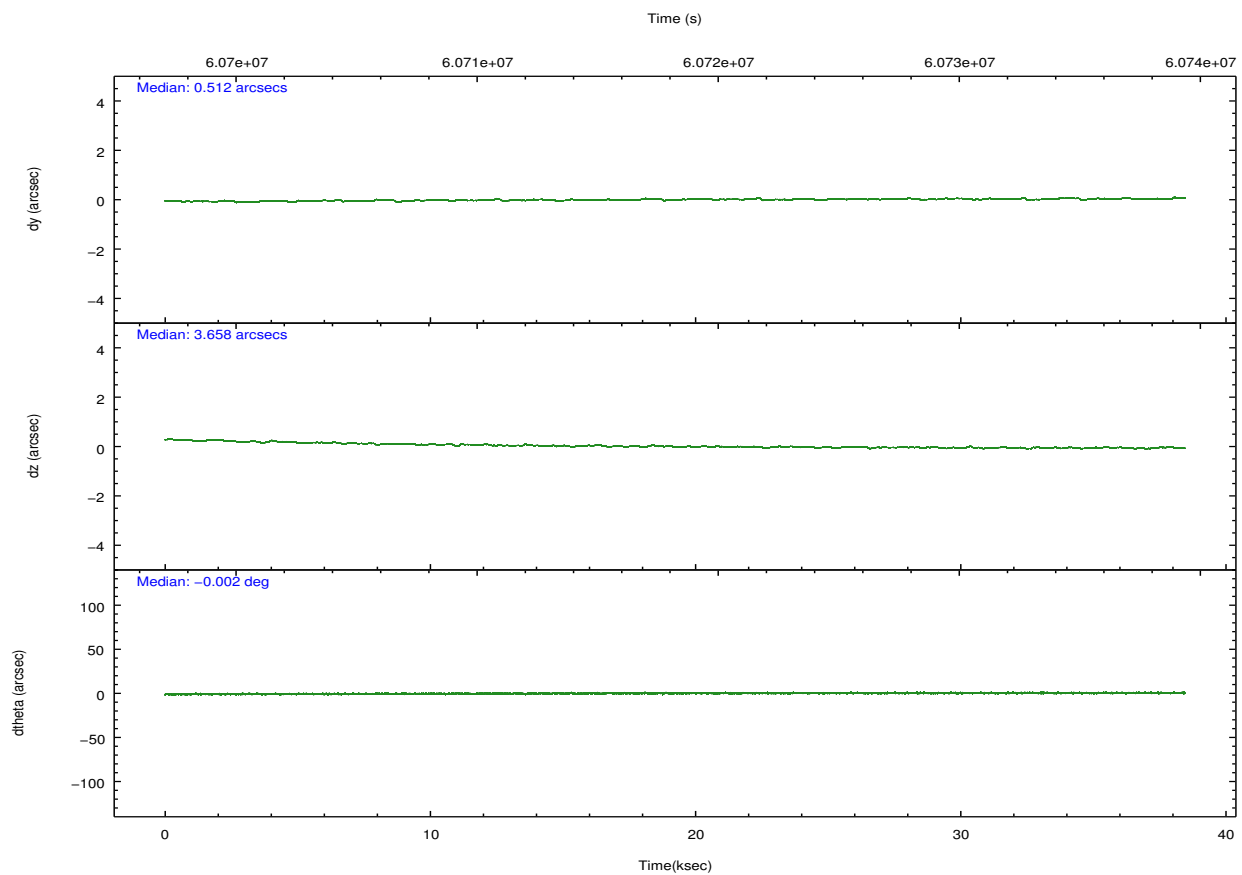
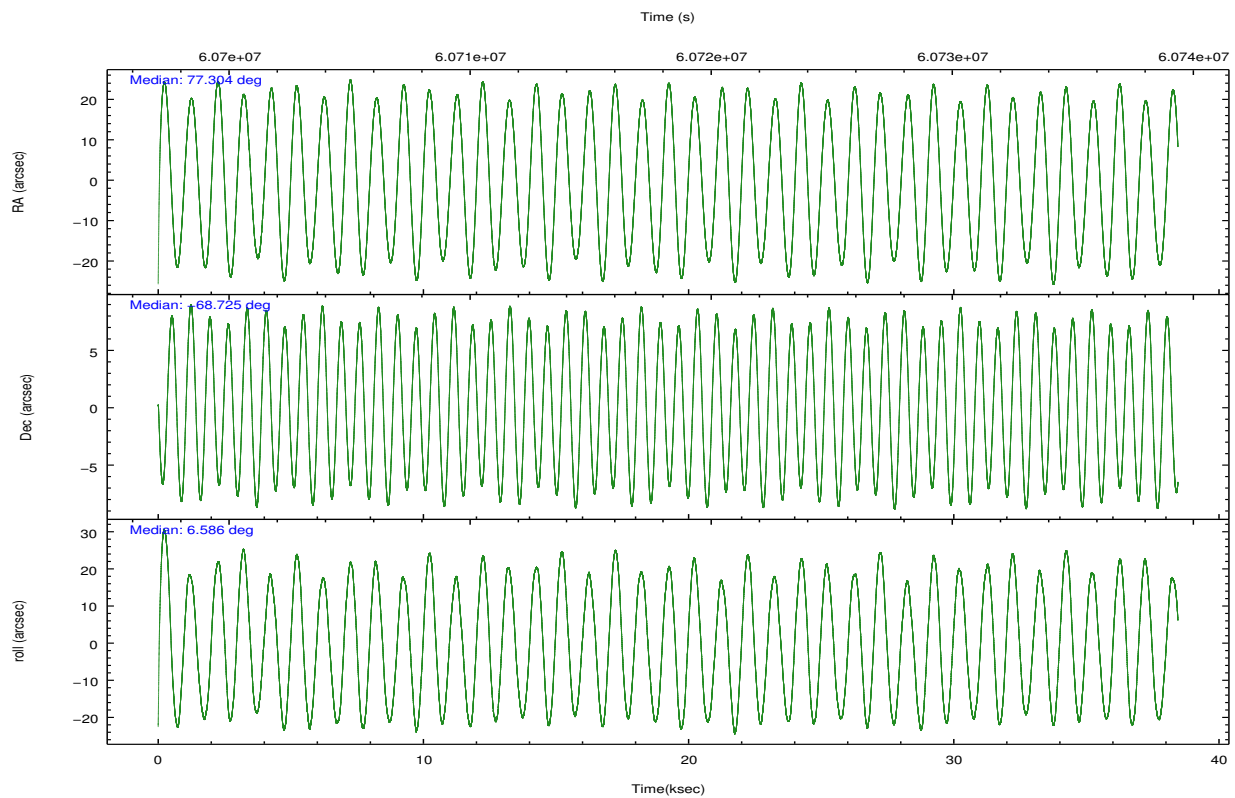
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	12007	11014	16367	120820	32718
	3%	3%	4%	13%	7%
grade 1 events	89	70	99	3454	221
	0%	0%	0%	0%	0%
grade 2 events	19281	20480	29355	148424	35066
	5%	6%	8%	16%	8%
grade 3 events	2006	2070	2143	60122	7758
	0%	0%	0%	6%	1%
grade 4 events	2068	1942	2125	55367	7132
	0%	0%	0%	6%	1%
grade 5 events	5506	6126	6526	31117	9213
	1%	1%	1%	3%	2%
grade 6 events	8012	8339	9733	269453	20709
	2%	2%	2%	29%	4%
grade 7 events	299919	289281	289069	227181	310607
	85%	85%	81%	24%	73%

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	77.243341	77.30447964472052	Subarray requested	NONE	NONE
Pointing Dec	-68.740867	-68.7245175933669	Alternating exposures requested	N	N
Pointing Roll	6.378627	6.592229771844585	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	60699436.184000	60697681.674404			
Observation start date	1999-12-04T12:56:12	1999-12-04T12:28:01			
Observation end time	60737436.184000	60738481.80088			
Observation end date	1999-12-04T23:29:32	1999-12-04T23:48:01			
Read mode	TIMED	TIMED			

2.3 Aspect



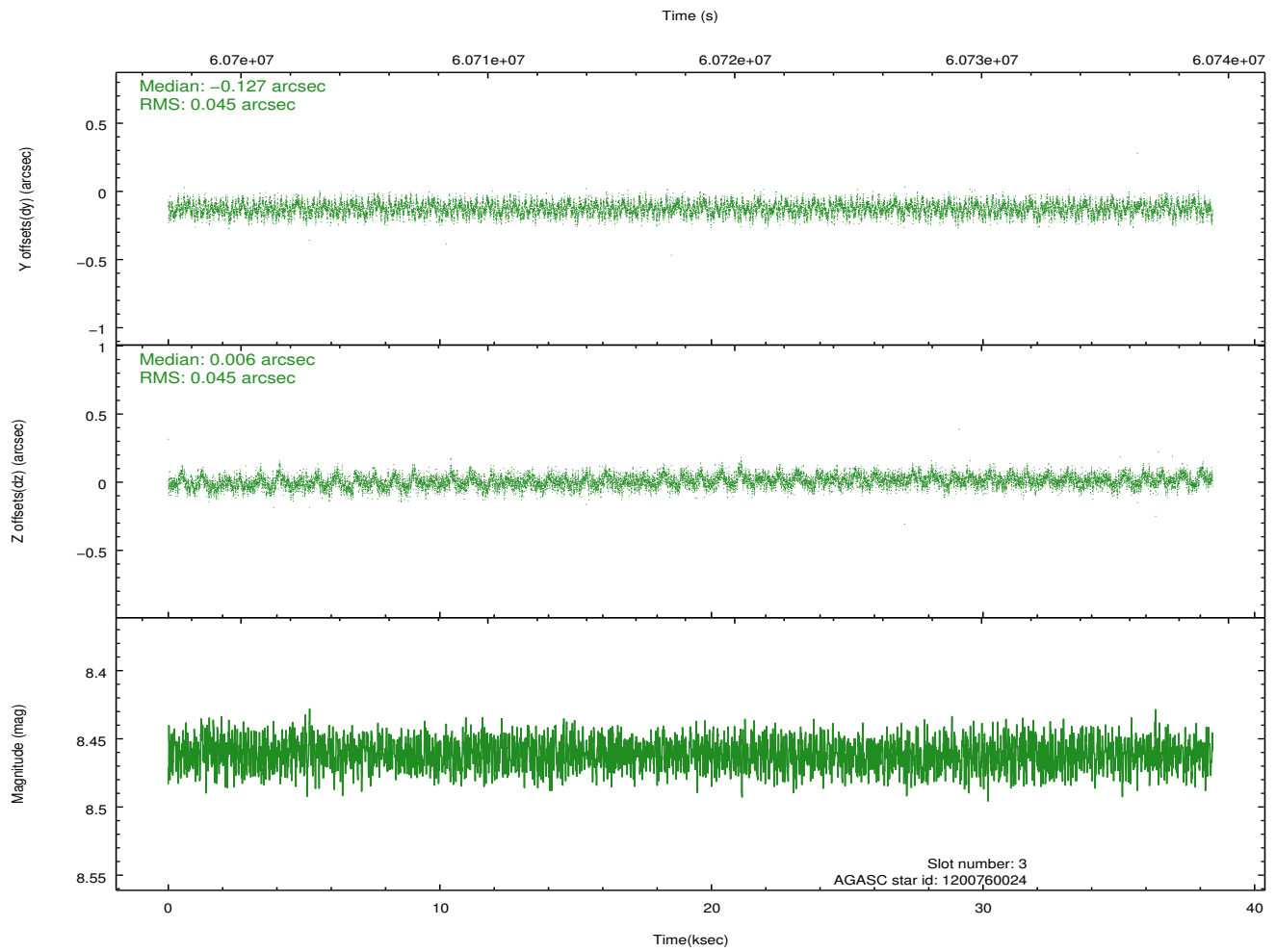
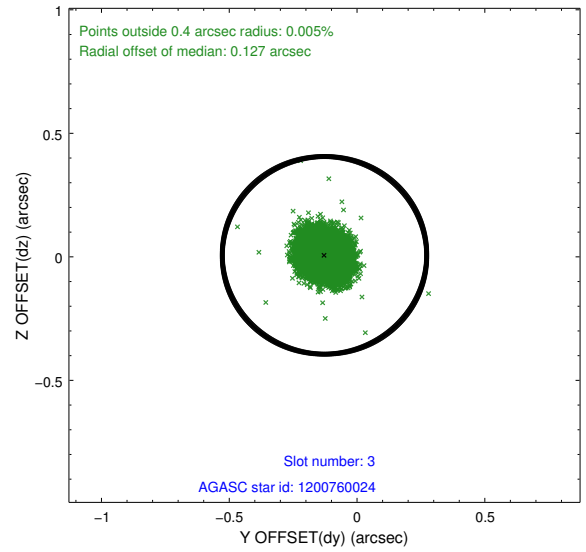
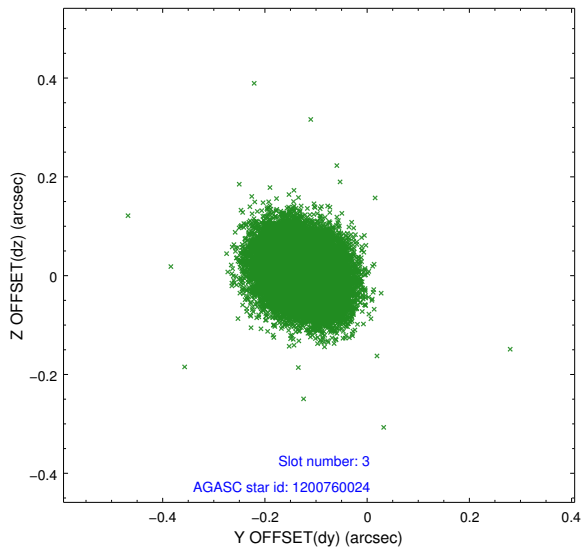


Slot Statistics

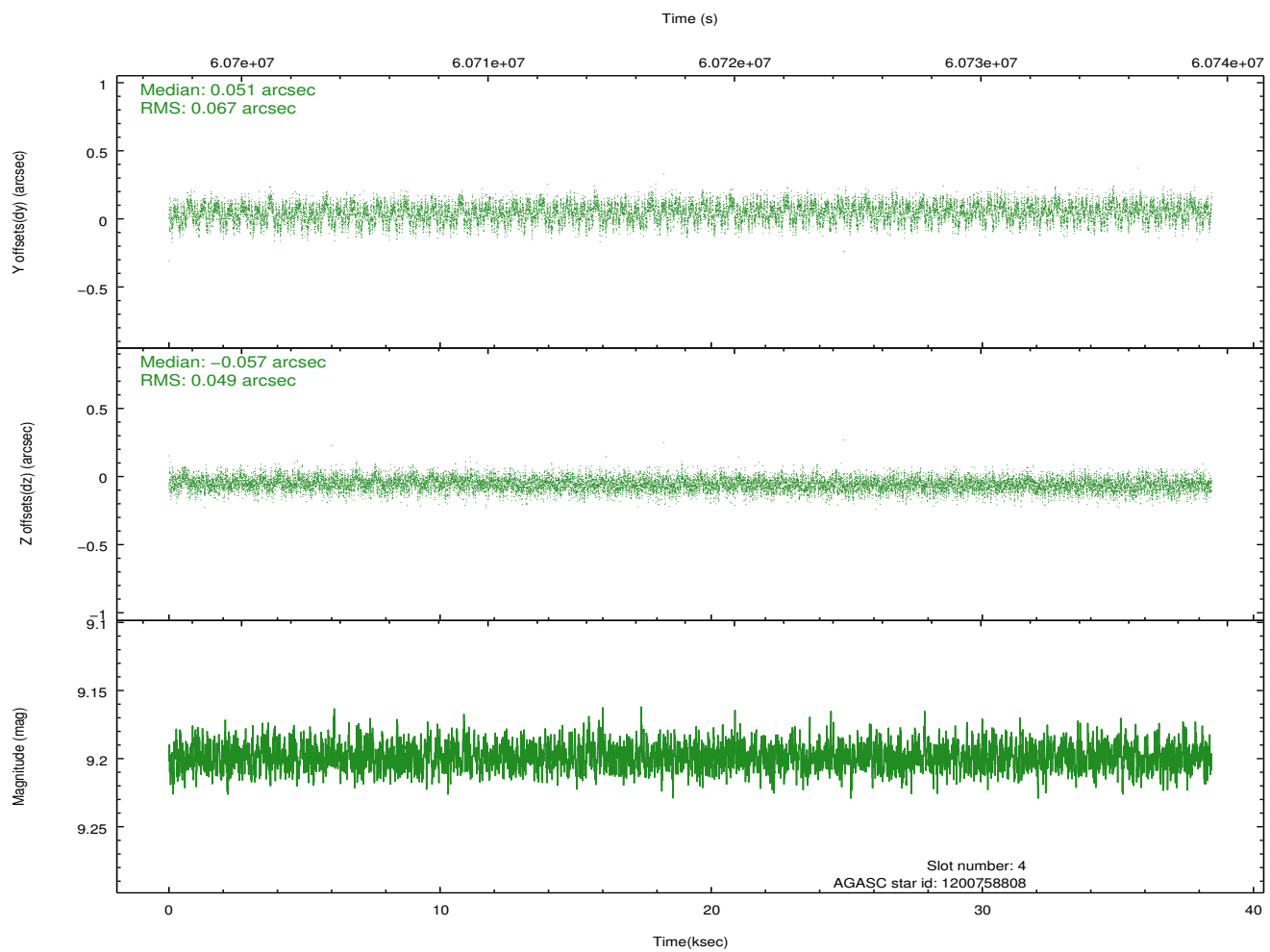
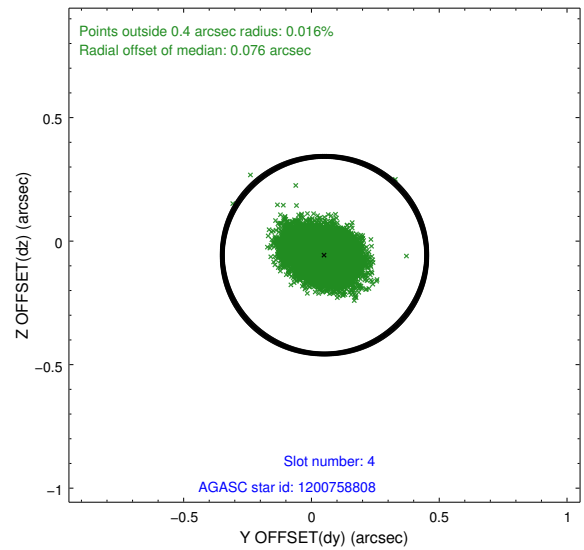
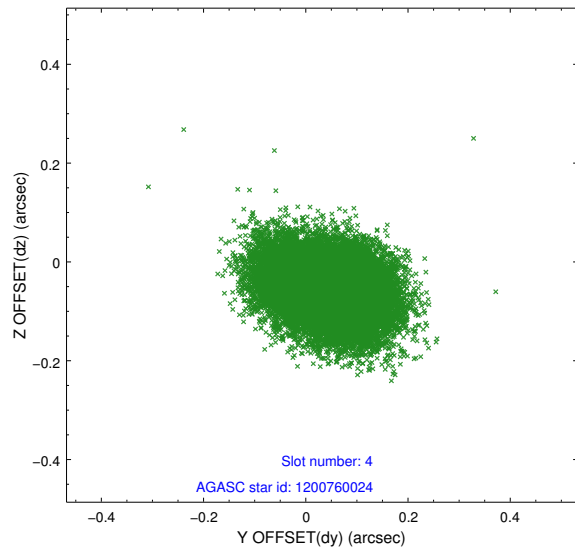
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	18758	0.000	-0.013	0.013	0.021	0.000000	0.000000	-753.14	-1724.76
1	FID	ACIS-S-4	7.21	18758	0.022	0.003	0.018	0.032	0.000000	0.000000	2160.26	183.72
2	FID	ACIS-S-5	7.24	18758	-0.055	0.019	0.012	0.020	0.000000	0.000000	-1806.06	177.46
3	GUIDE	1200760024	8.46	18752	-0.127	0.006	0.069	0.108	77.625244	-69.320410	250.80	-2128.02
4	GUIDE	1200758808	9.20	18756	0.051	-0.057	0.089	0.143	75.766621	-68.511245	-1845.88	1015.11
5	GUIDE	1200887144	10.44	18735	0.050	-0.085	0.140	0.234	78.192748	-68.437135	1368.72	938.43
6	GUIDE	1200881904	10.56	18667	-0.007	0.141	0.165	0.266	78.696198	-68.212079	2138.16	1654.71
7	GUIDE	1200759616	9.89	18737	0.035	-0.008	0.105	0.172	75.606238	-69.218000	-2271.47	-1501.85

2.4 Star Slots

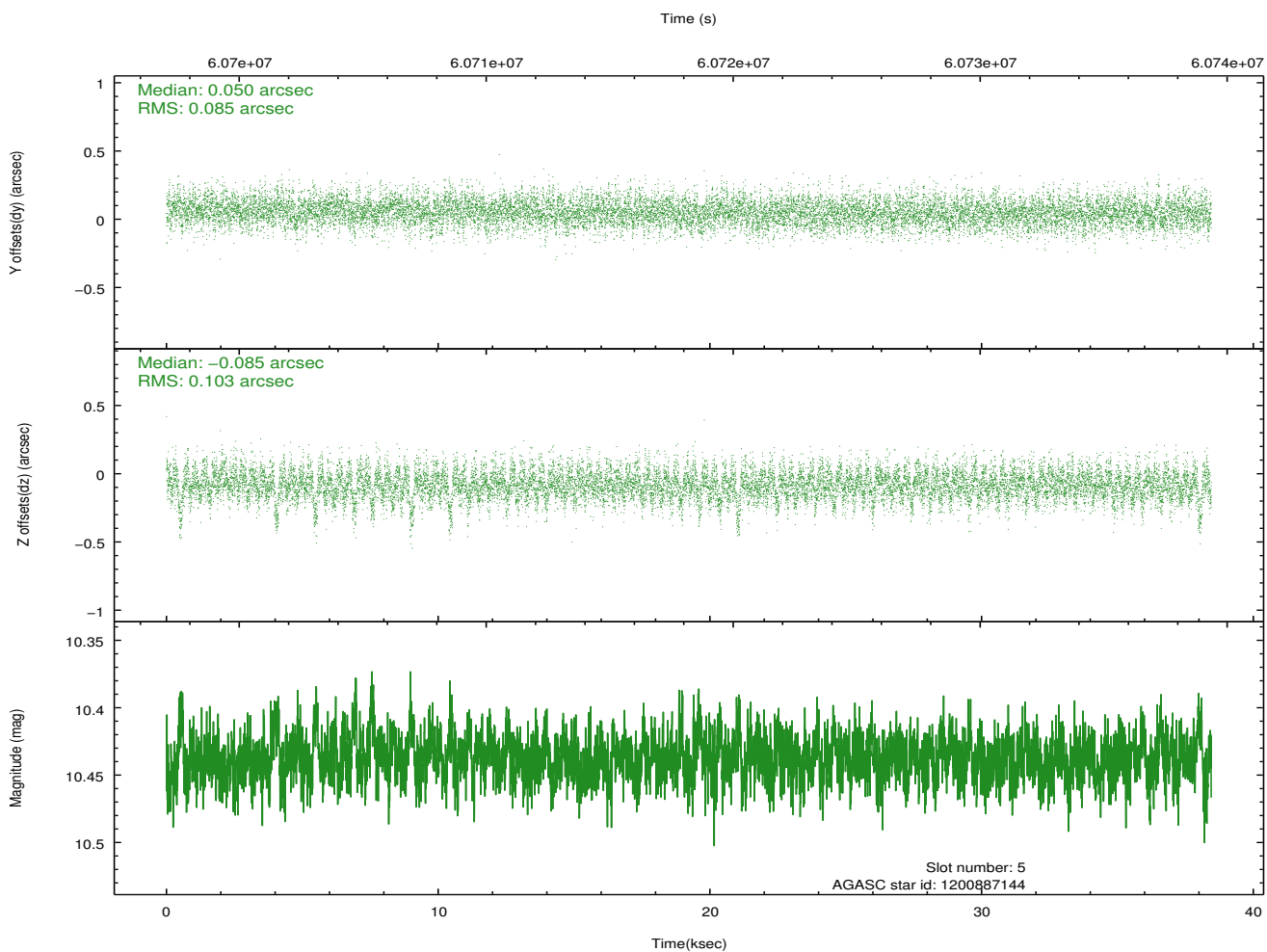
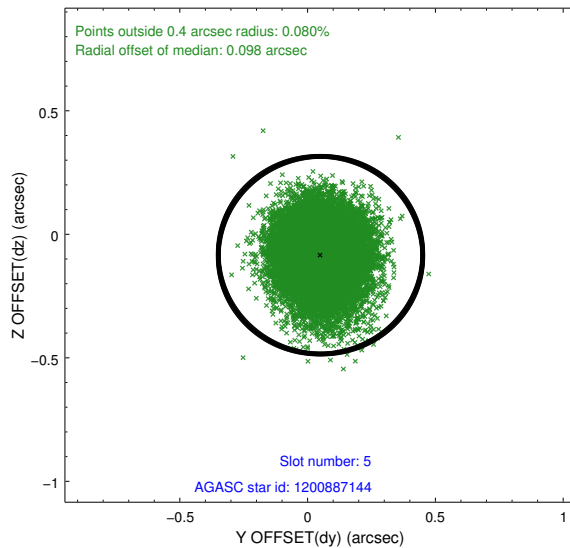
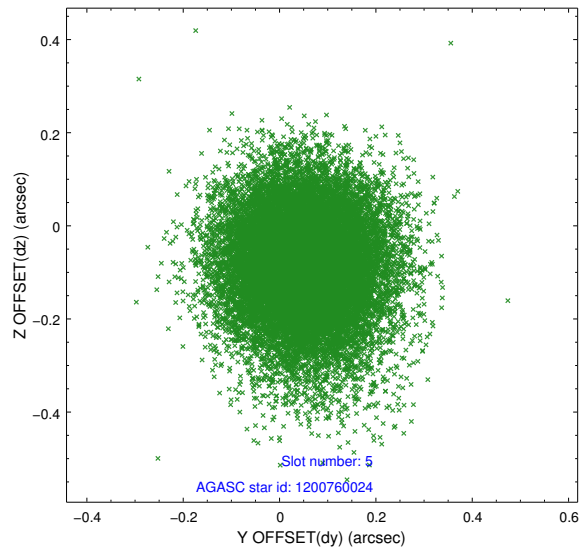
2.4.1 Slot 3



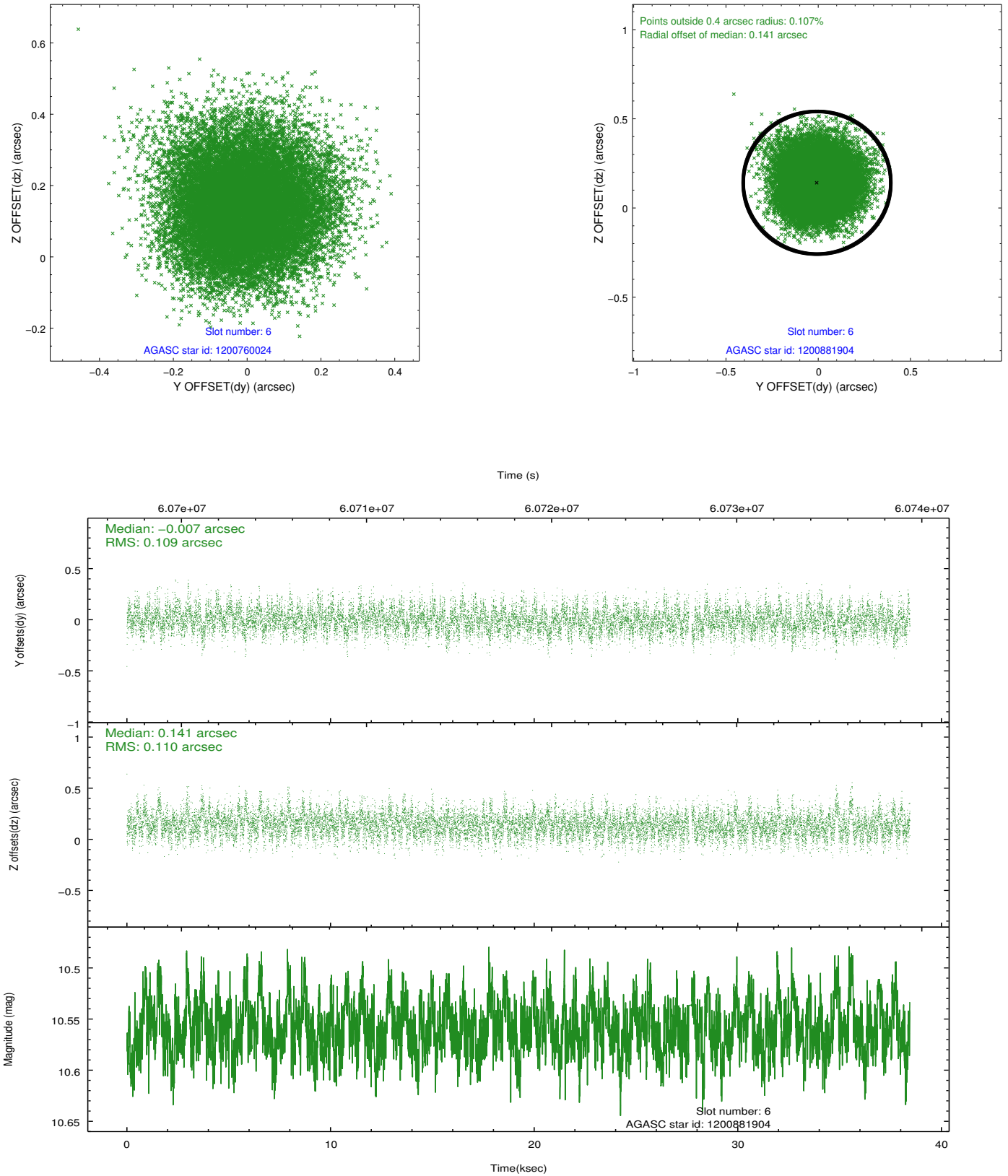
2.4.2 Slot 4



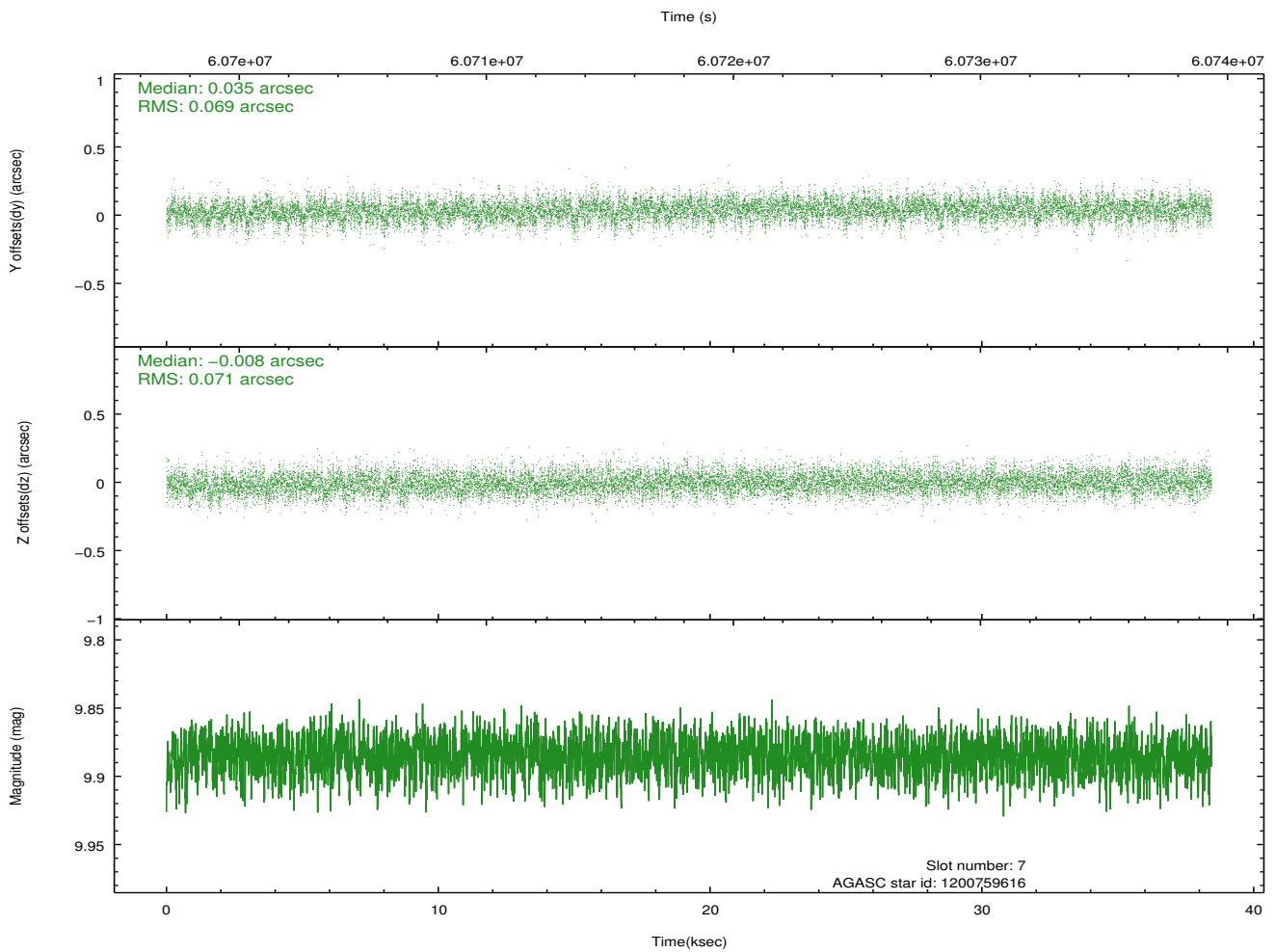
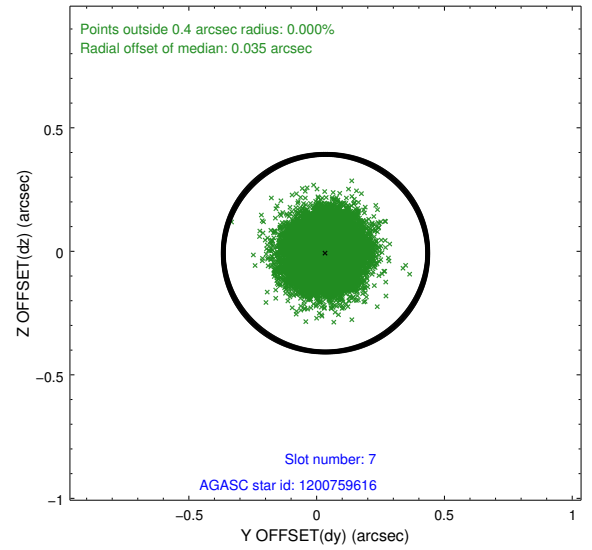
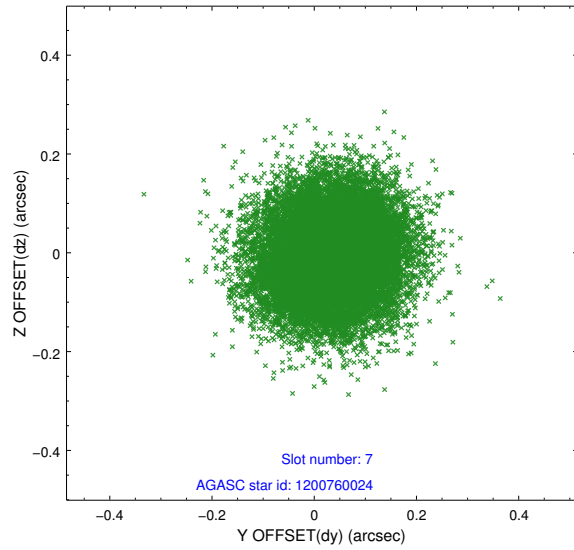
2.4.3 Slot 5



2.4.4 Slot 6

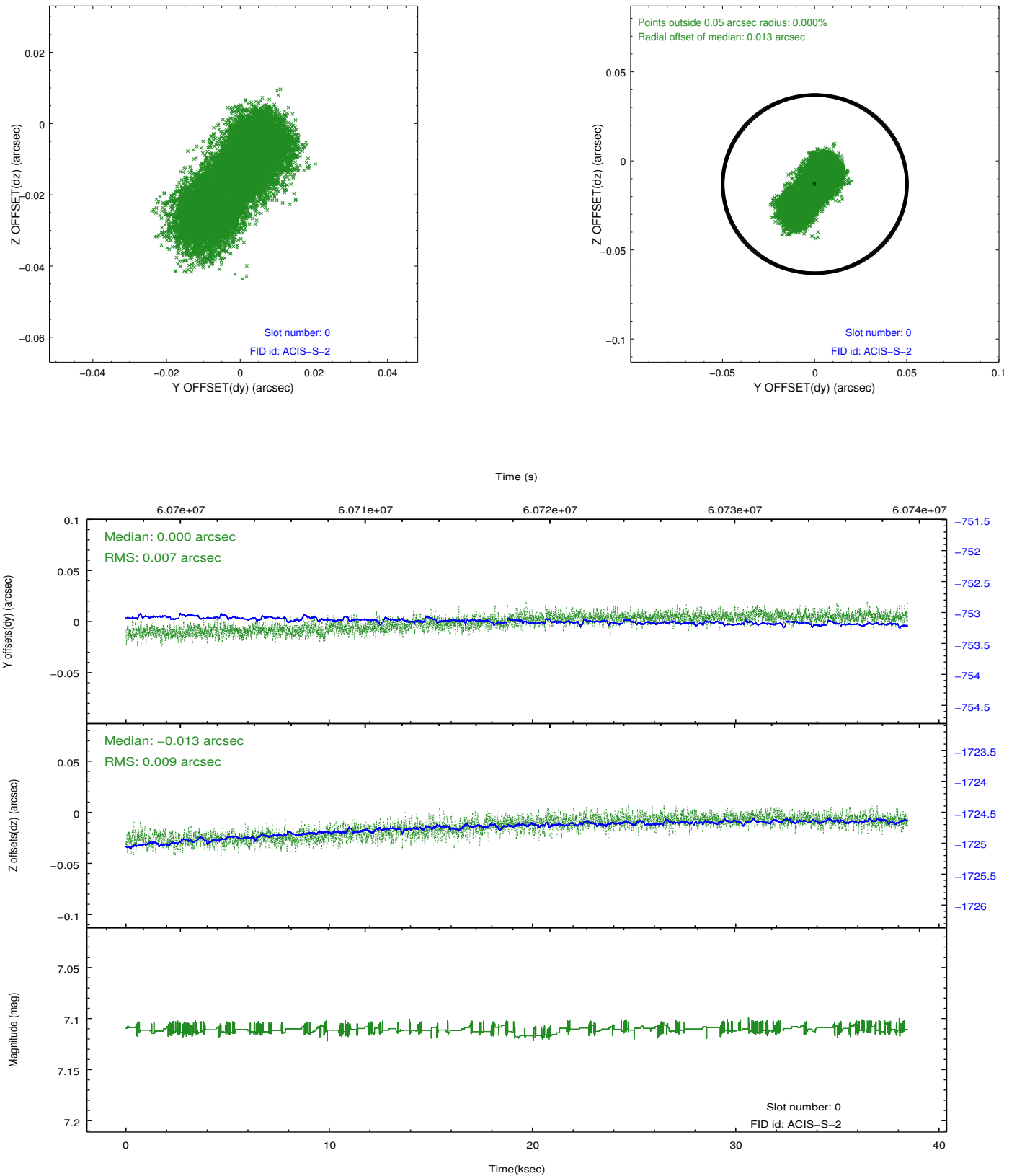


2.4.5 Slot 7

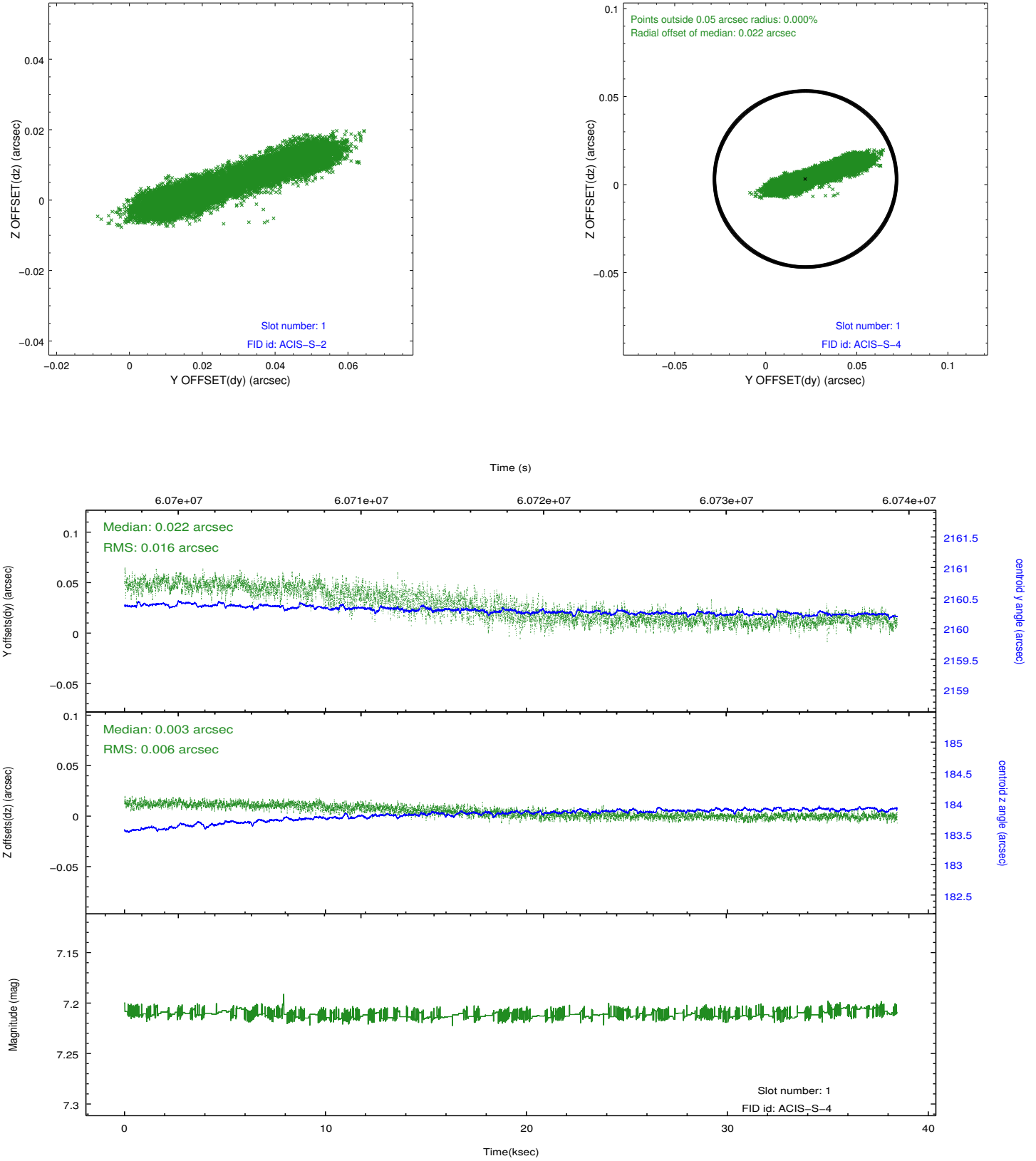


2.5 FID Slots

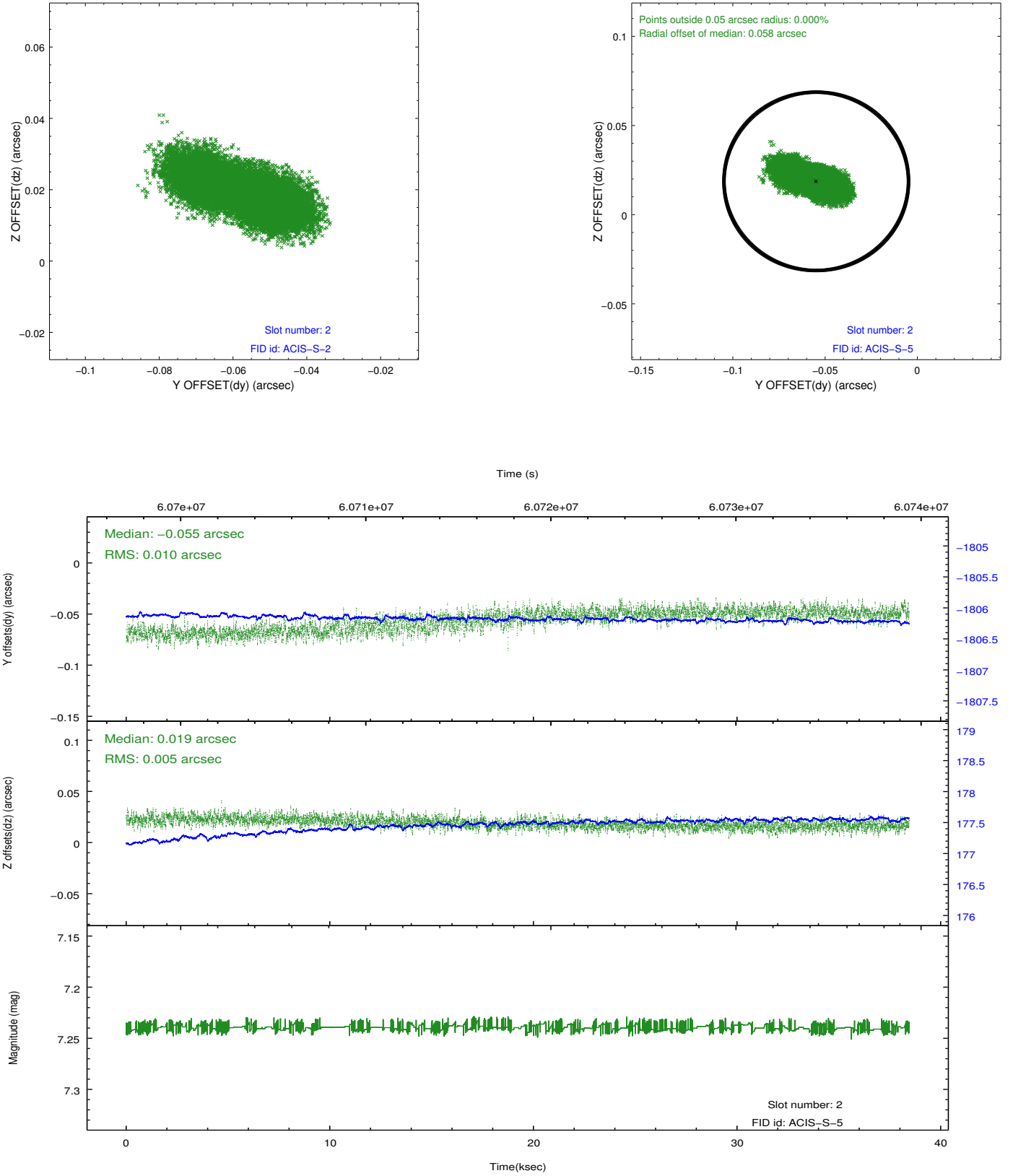
2.5.1 Slot 0



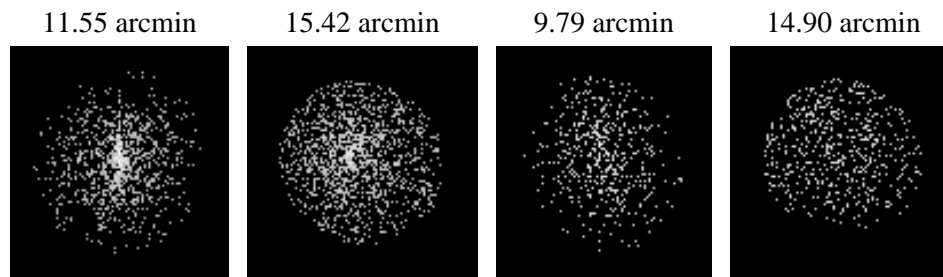
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.168

A.2 Comments

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.