

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15045 - L2 Version 2
Chandra X-Ray Center

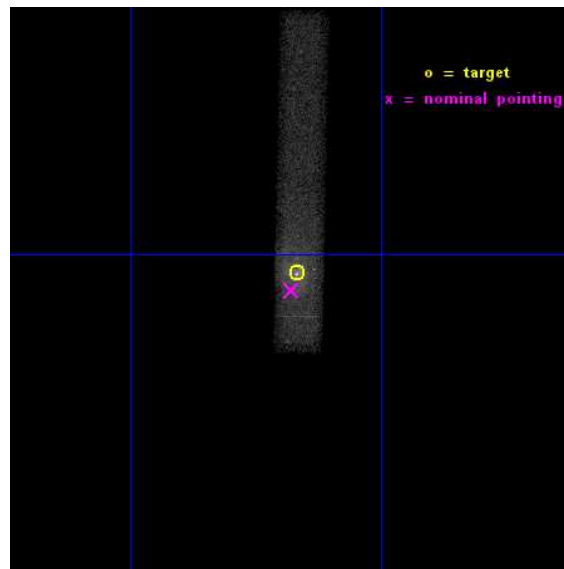
L2 Processing Date : Dec 9 2014

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1 Front

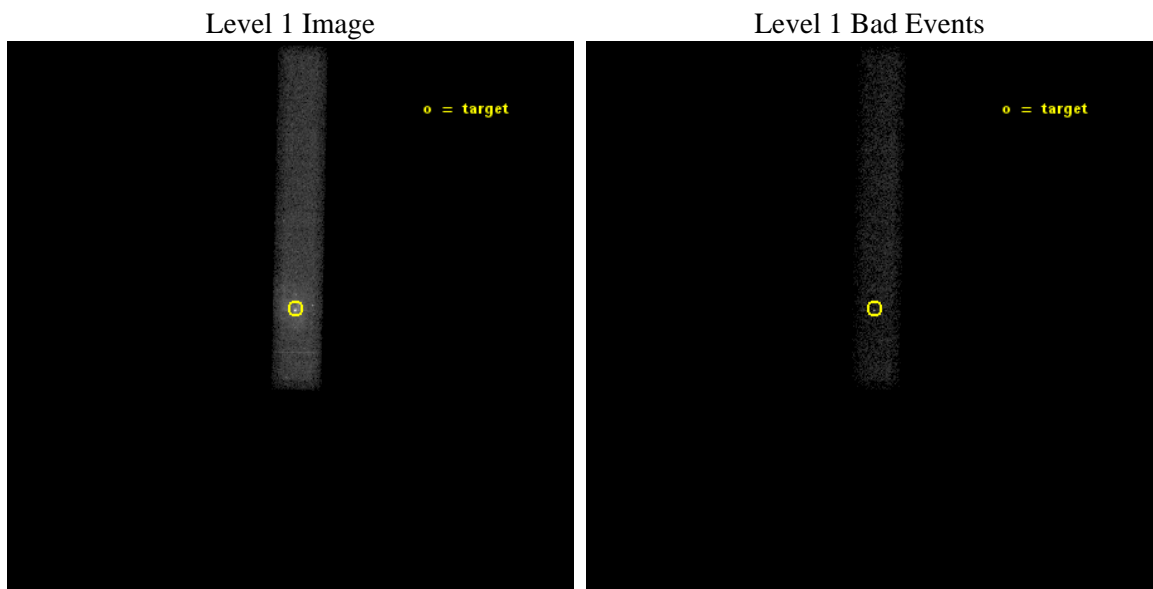
seq_num	702852	Sequence number
obs_id	15045	Observation id
title	Joint Chandra/XMM/EVLA Monitoring of the Gas Cloud G2 as it Encounters Sgr A*	Proposal title
observer	Dr. Daryl Haggard	Principal investigator
object	Sgr A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.00775	Observer's specified target Dec [deg]
ra_nom	266.41973413109	Nominal RA [deg]
dec_nom	-29.015146938716	Nominal Dec [deg]
roll_nom	271.15811904667	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50069.197015643	Sum of GTIs [s]
livetime	45410.118824273	Livetime [s]
ontime7	50069.197015643	Sum of GTIs [s]
l2events	62135	Number of level 2 events



2 OBI

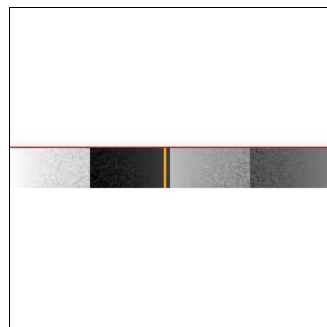
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	50069.197015643	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	50069.197015643	Sum of GTIs [s]
date	2014-12-09T04:43:10	Date and time of file creation	l1events	88122	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

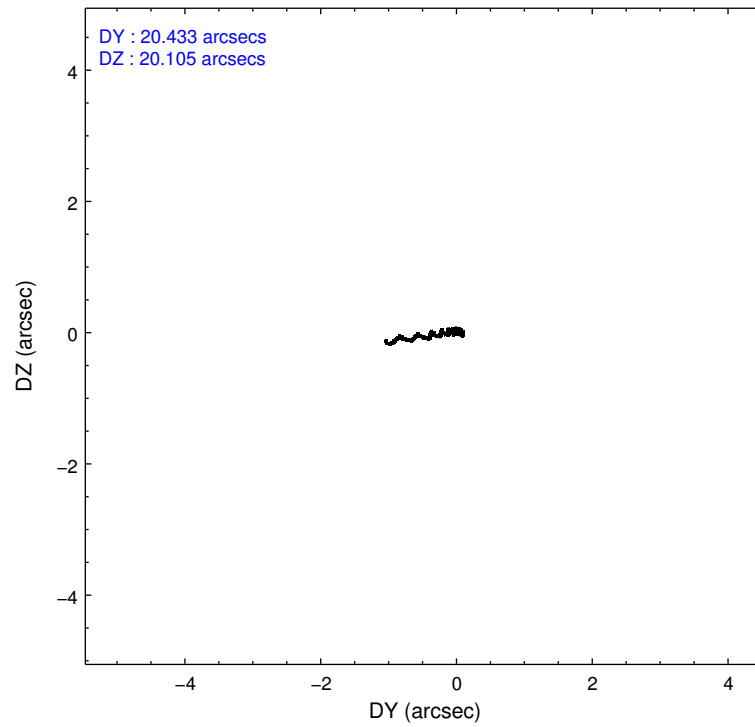
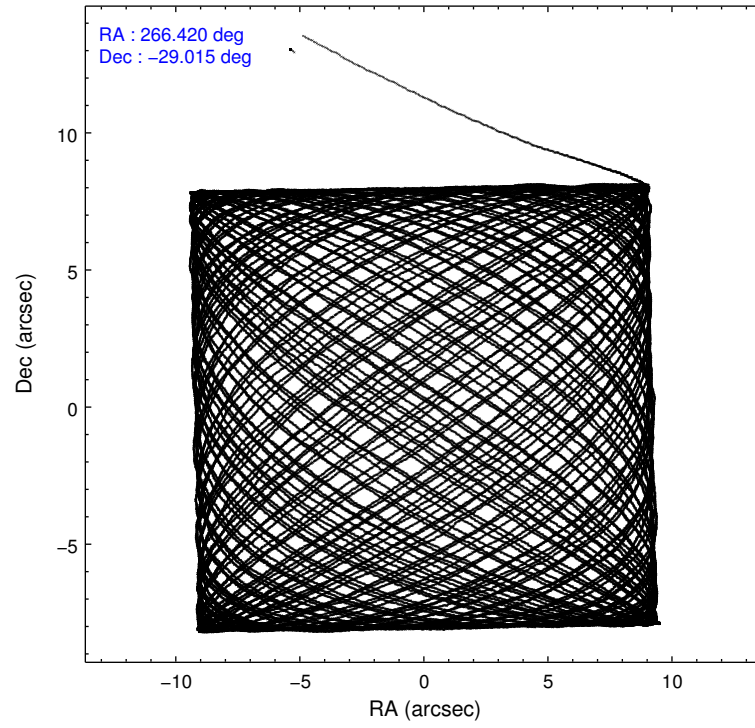
	ccd 7
level 1 events	88122
rejected events	24634
rejected %	27%

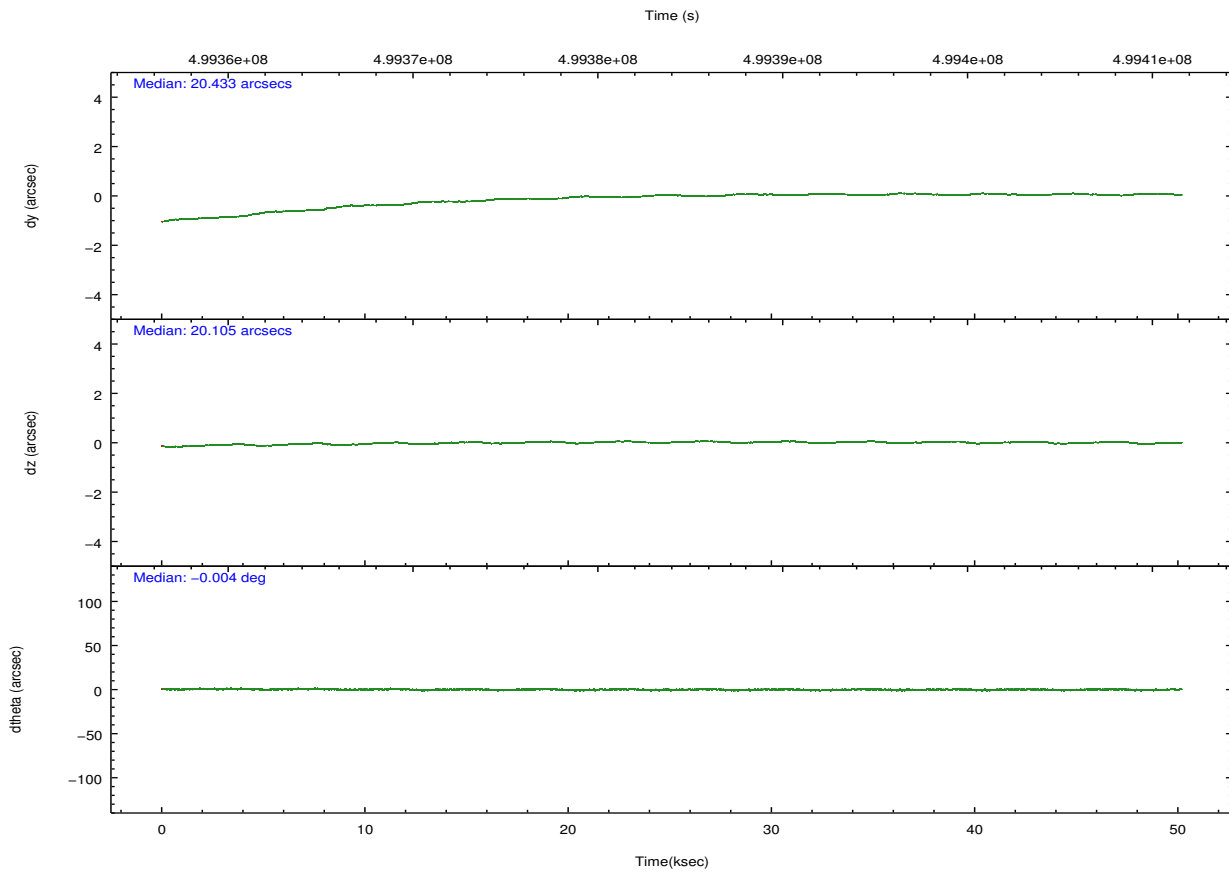
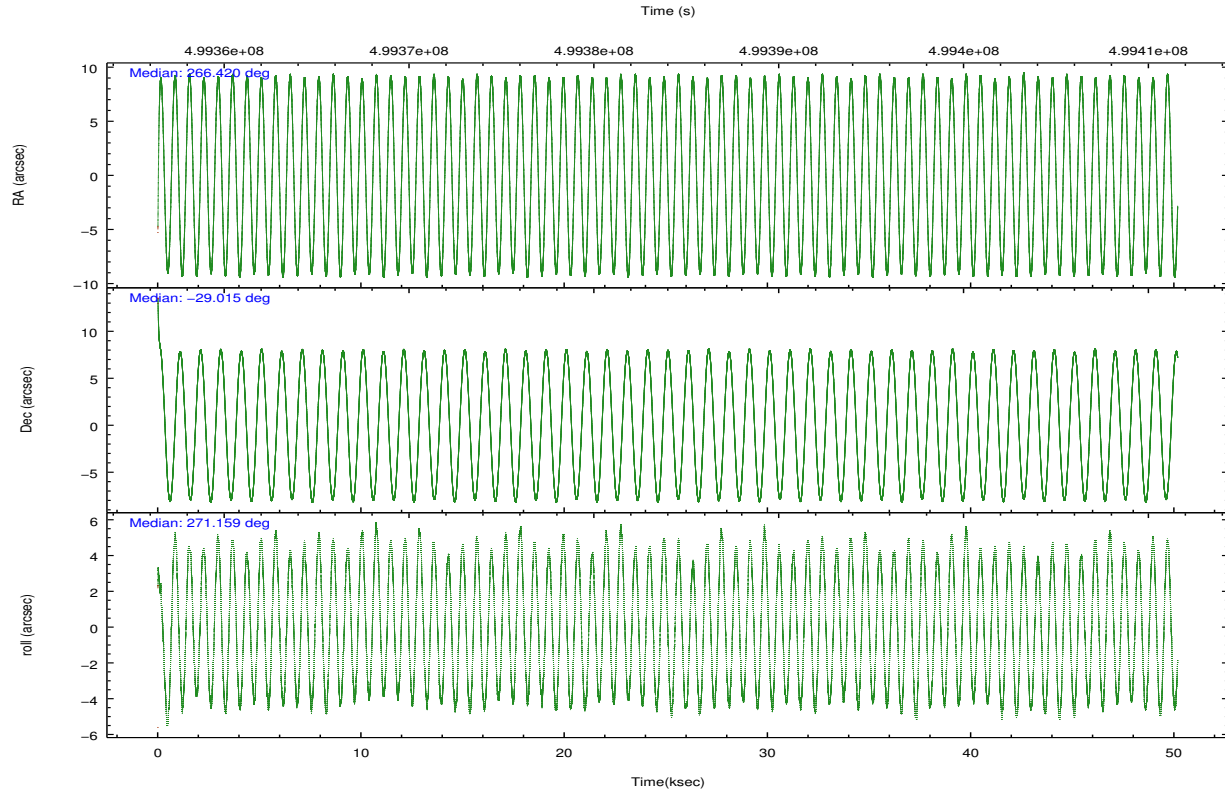
	ccd 7
grade 0 events	10328
	11%
grade 1 events	125
	0%
grade 2 events	14373
	16%
grade 3 events	7457
	8%
grade 4 events	7273
	8%
grade 5 events	5226
	5%
grade 6 events	24059
	27%
grade 7 events	19281
	21%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	266.403202	266.4197341310913	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-28.991958	-29.01514693871551	Subarray start row	449	449
[deg] Pointing Roll	270.993472	271.1581190466717	Subarray row count	128	128
[s] Window start time (MET)	498873667.184000	498873667.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	500169607.184000	500169607.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	499359099.184000	499357874.4639			
Observation start date	2013-10-28T14:50:32	2013-10-28T14:31:14			
[s] Observation end time (MET)	499409099.184000	499410084.37928			
Observation end date	2013-10-29T04:43:52	2013-10-29T05:01:24			
Read mode	TIMED	TIMED			

2.3 Aspect



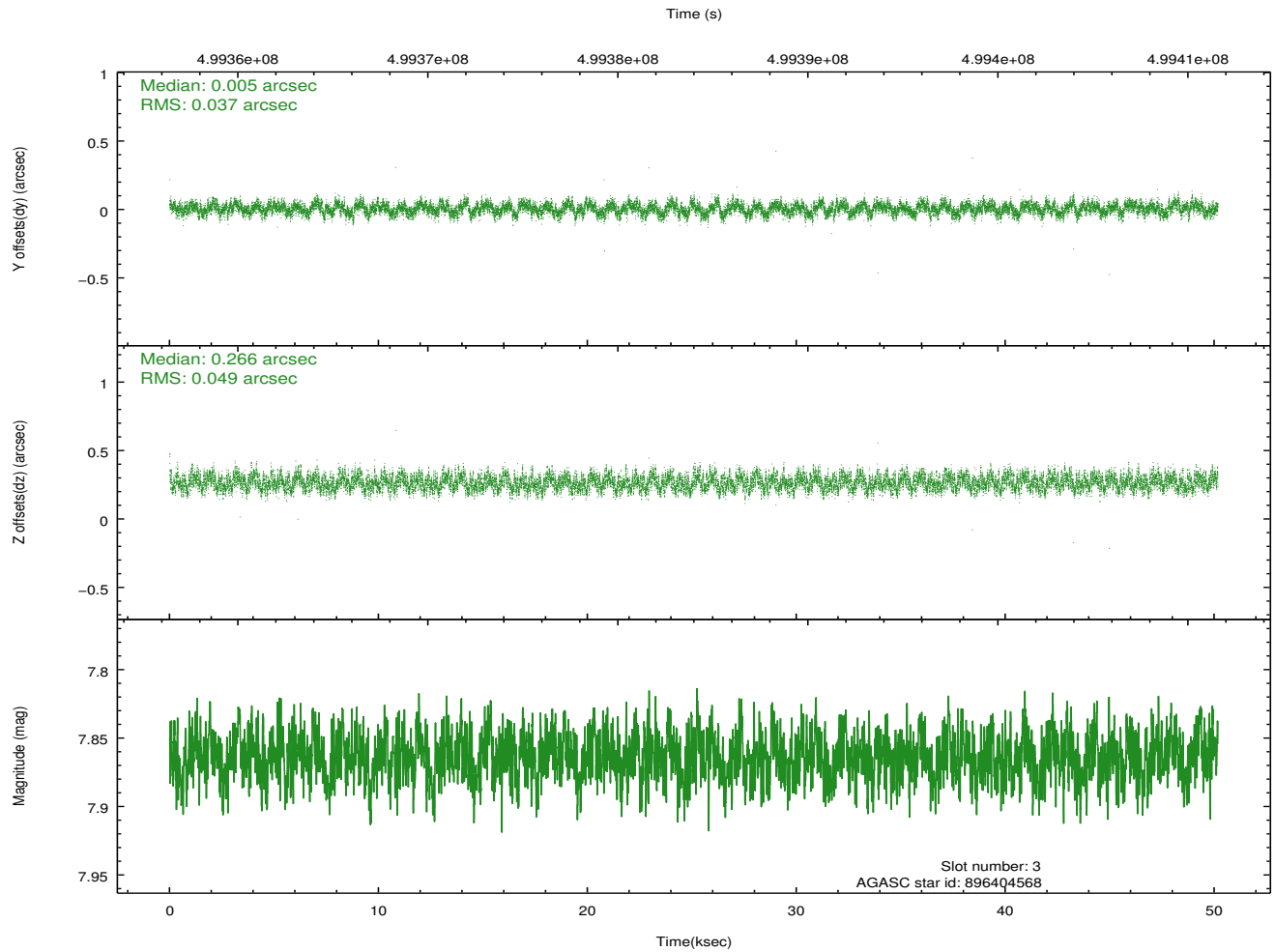
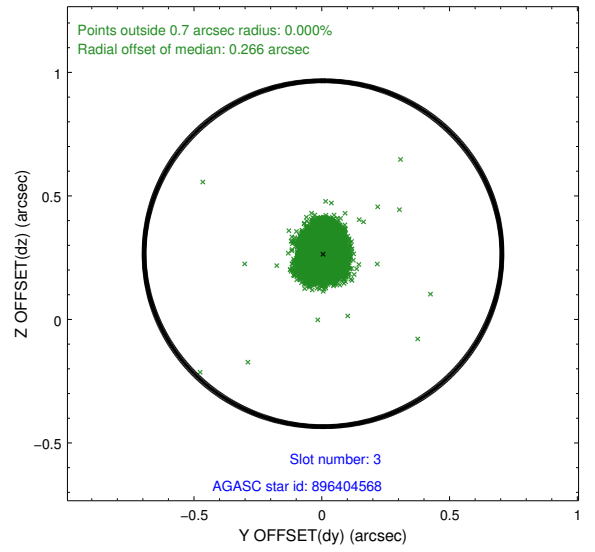
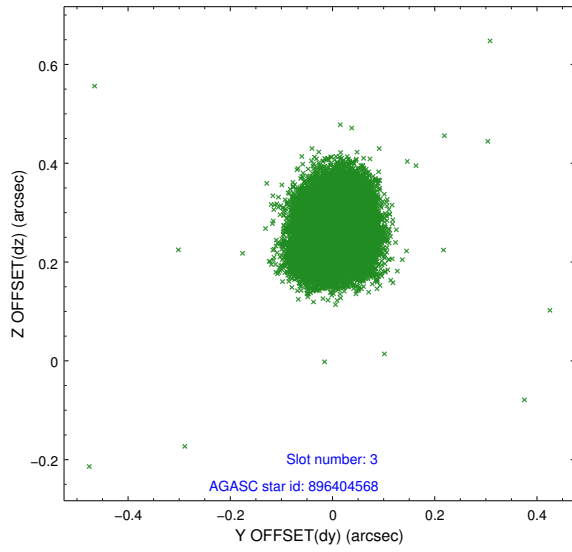


Slot Statistics

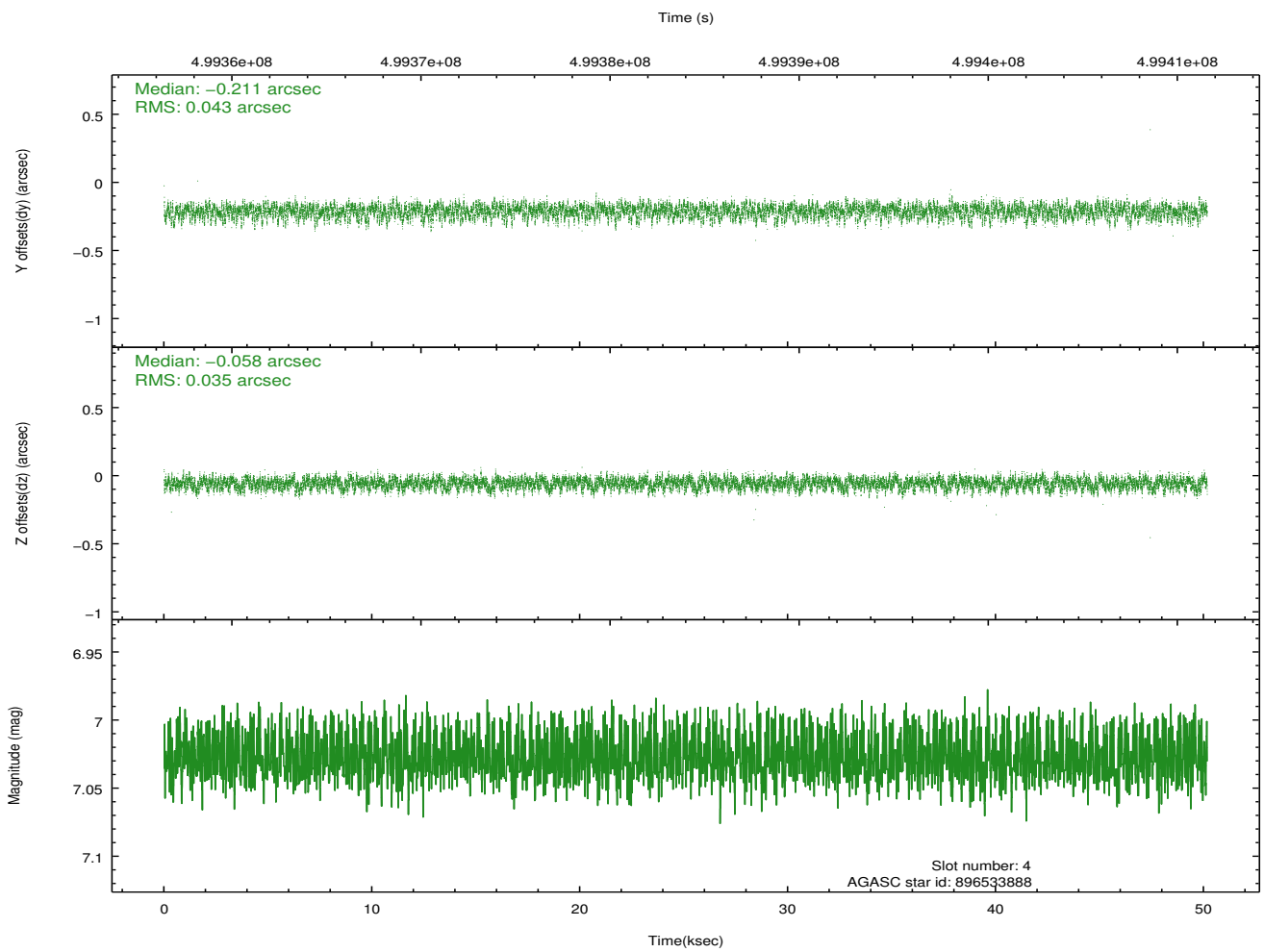
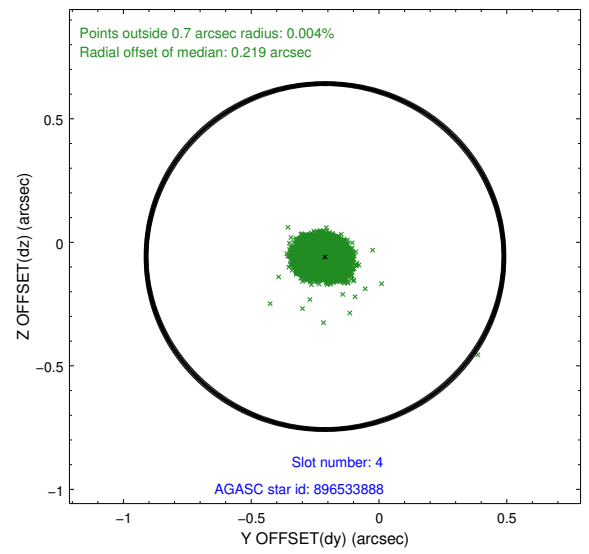
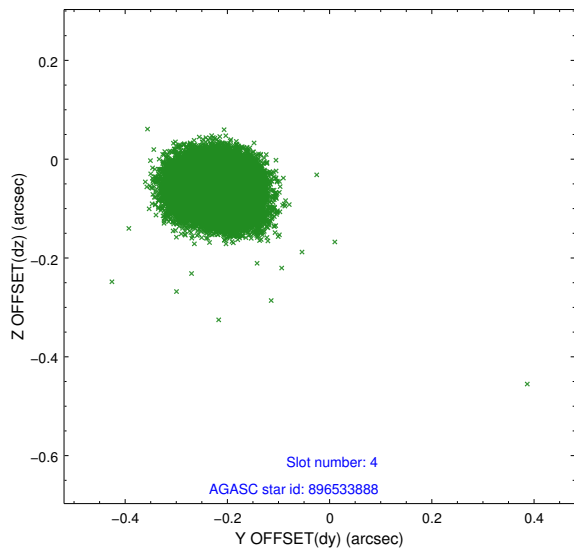
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	12238	-0.120	0.010	0.007	0.011	0.000000	0.000000	-773.50	-1741.55
1	FID		ACIS-S-4	7.02	12236	0.196	0.055	0.009	0.021	0.000000	0.000000	2140.10	167.00
2	FID		ACIS-S-5	7.04	12238	-0.107	-0.056	0.009	0.021	0.000000	0.000000	-1826.36	160.53
3	GUIDE	used	896404568	7.86	24472	0.005	0.266	0.066	0.103	265.687293	-28.431080	-2050.94	-2230.91
4	GUIDE	used	896533888	7.03	24474	-0.211	-0.058	0.059	0.093	266.666434	-29.392757	1458.13	800.42
5	GUIDE	used	896534664	8.19	24470	0.505	-0.140	0.079	0.125	266.405570	-28.407461	-2102.67	44.00
6	GUIDE	used	896541360	7.71	24473	-0.236	-0.041	0.070	0.105	266.684478	-29.453744	1678.73	852.79
7	GUIDE	used	896537176	8.03	24473	-0.062	-0.027	0.075	0.115	266.498272	-28.678259	-1123.30	319.92

2.4 Star Slots

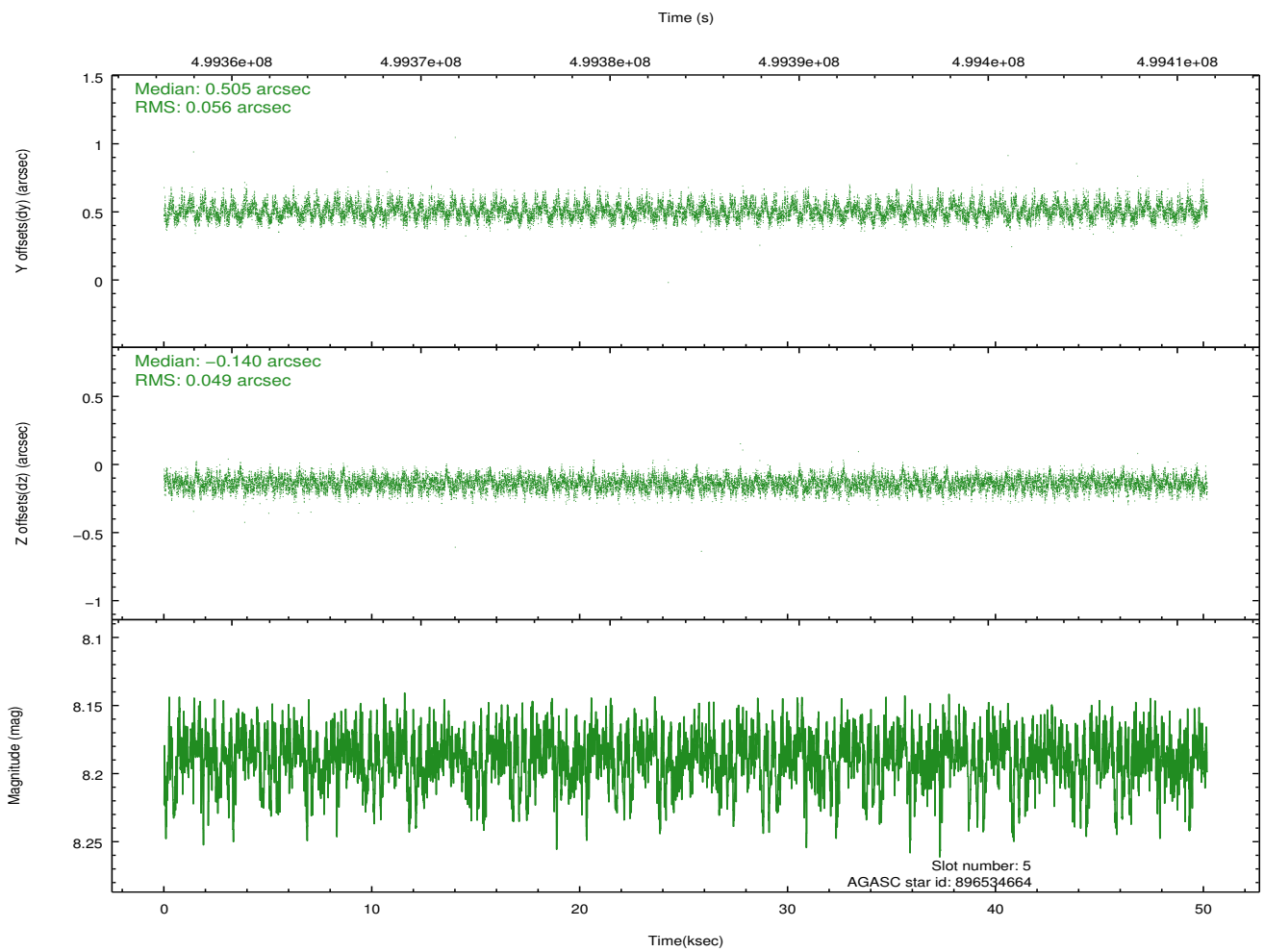
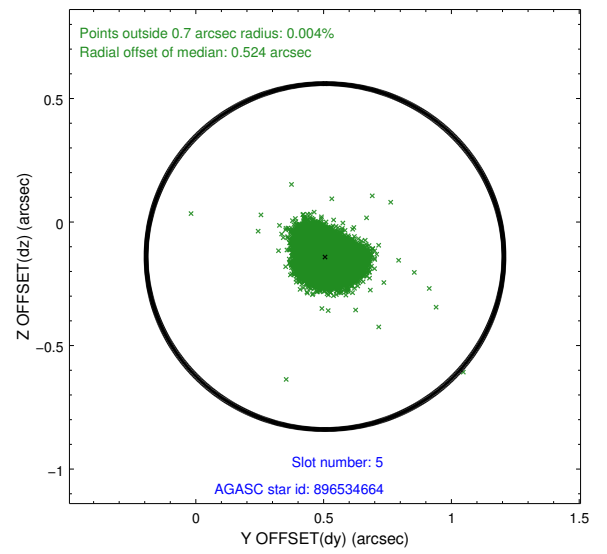
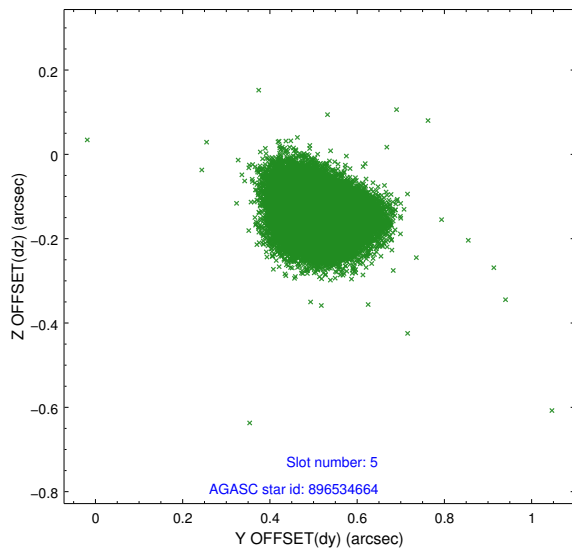
2.4.1 Slot 3



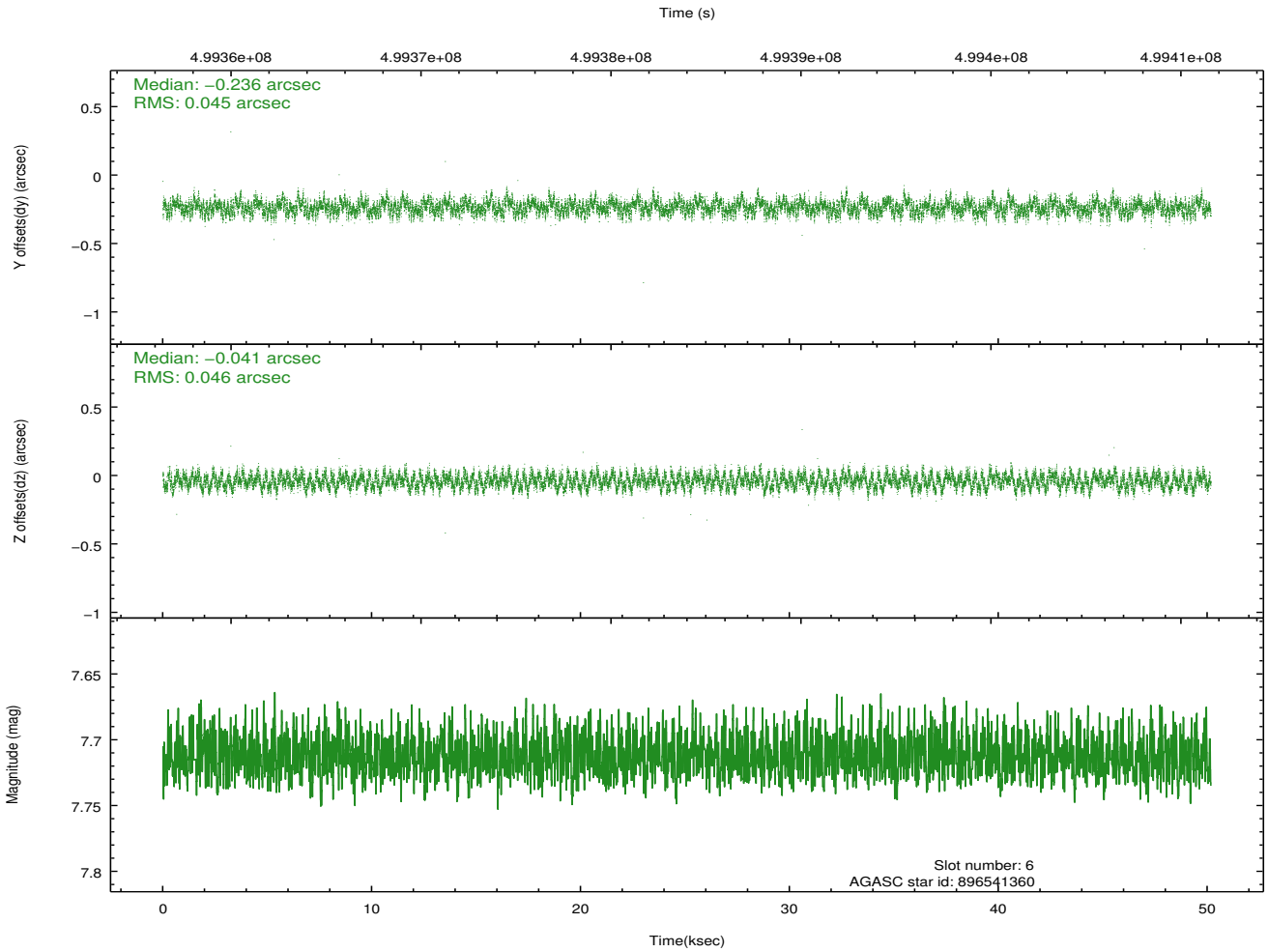
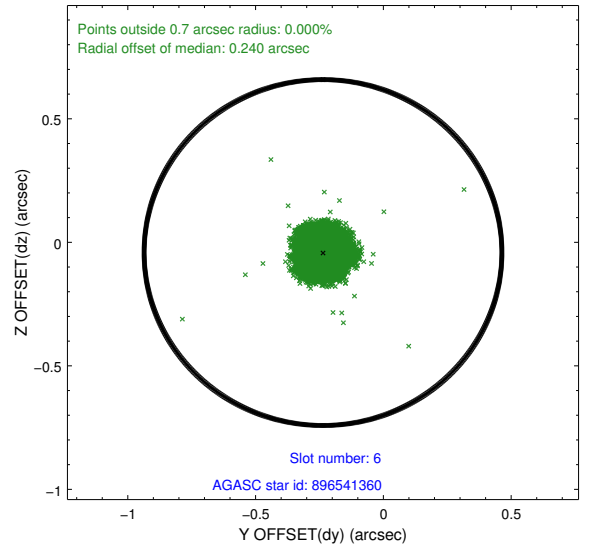
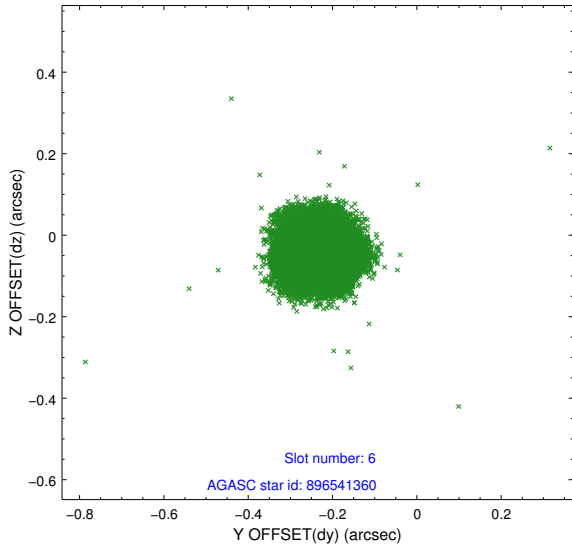
2.4.2 Slot 4



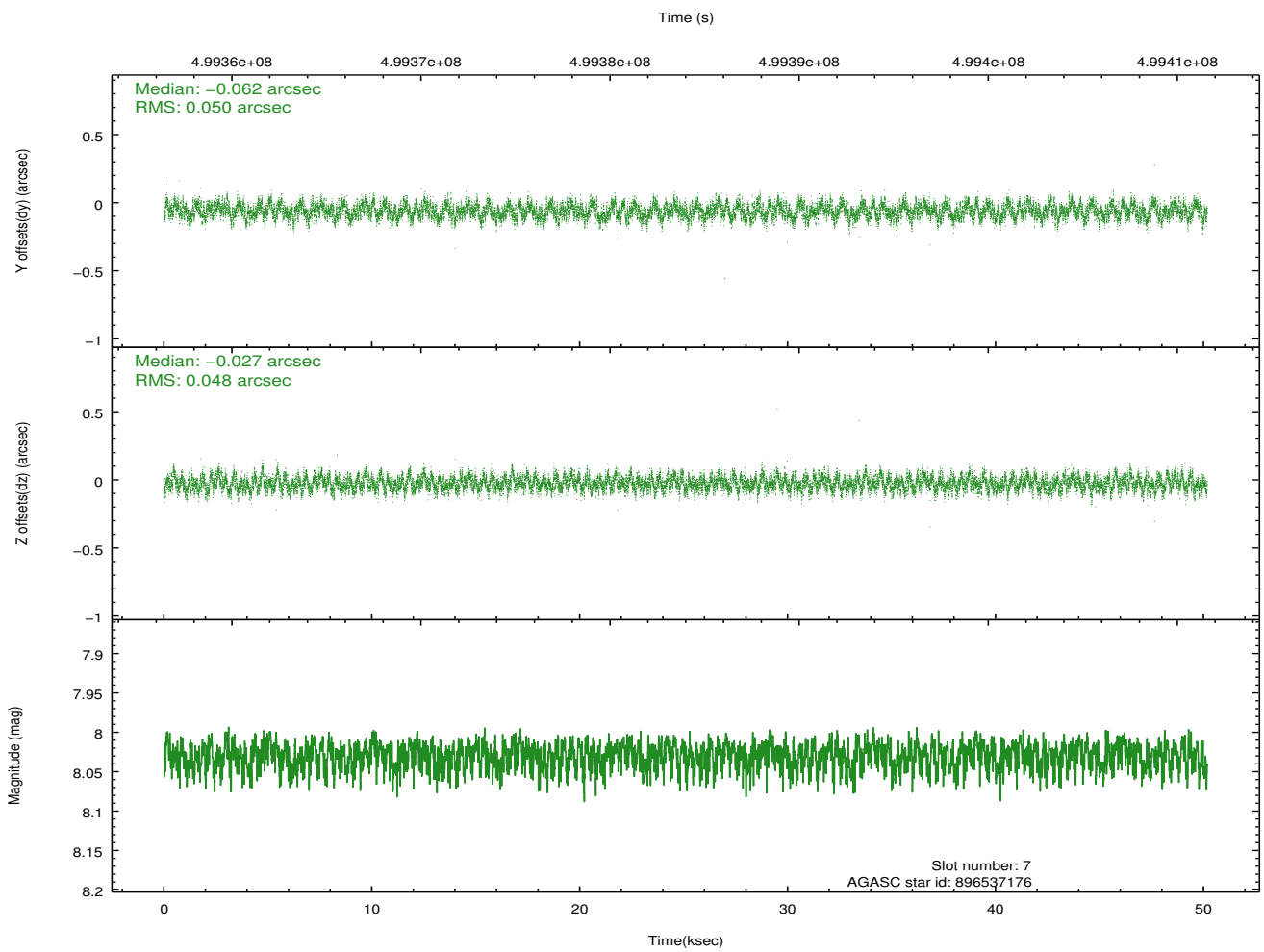
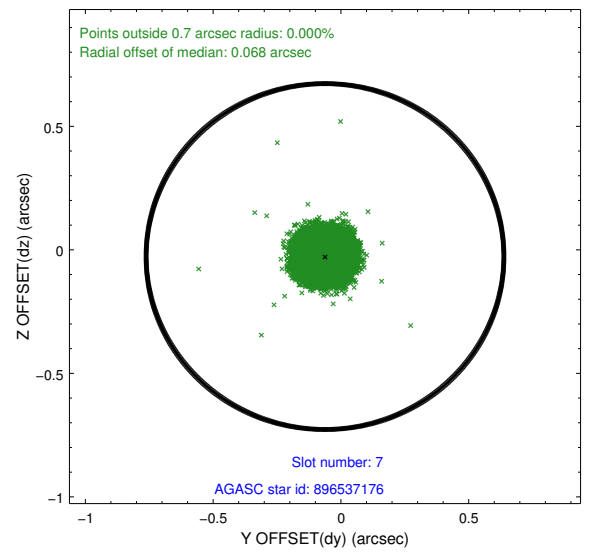
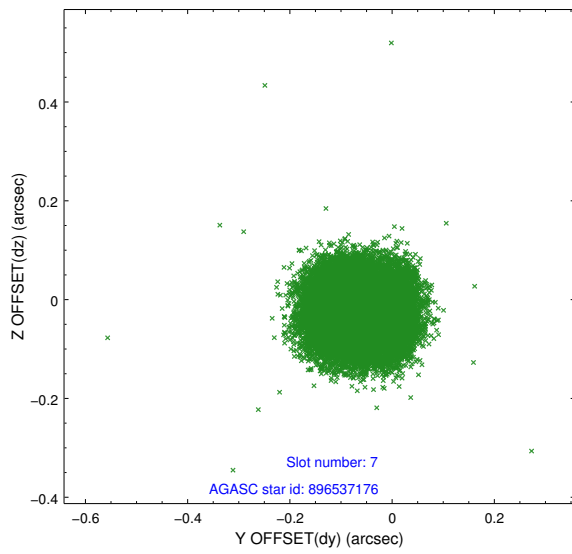
2.4.3 Slot 5



2.4.4 Slot 6

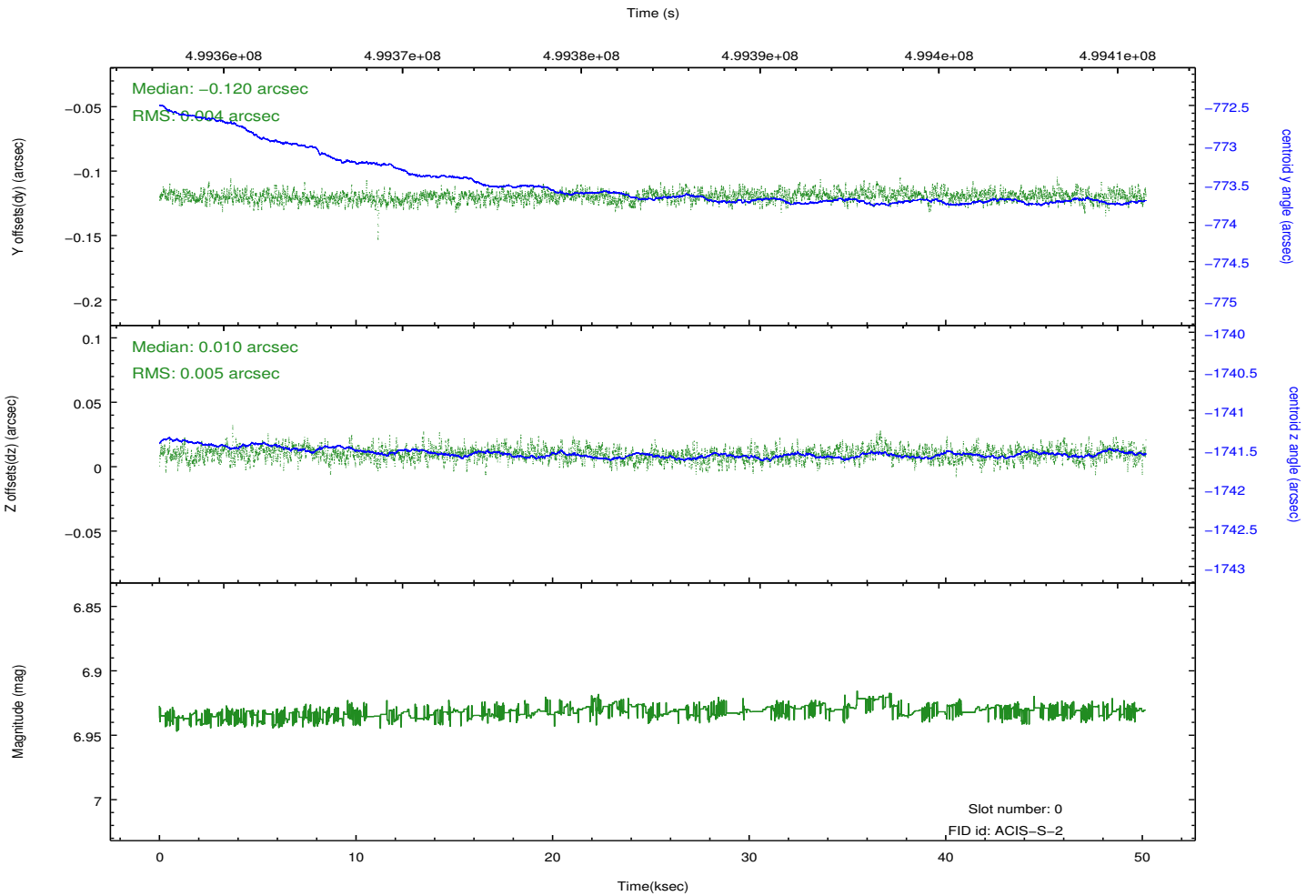
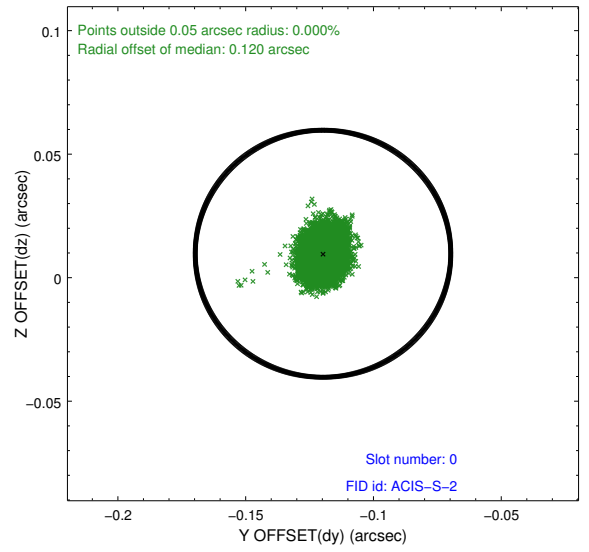
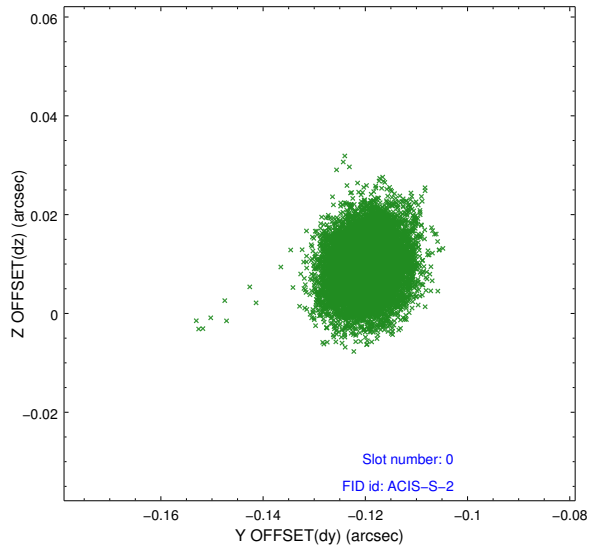


2.4.5 Slot 7

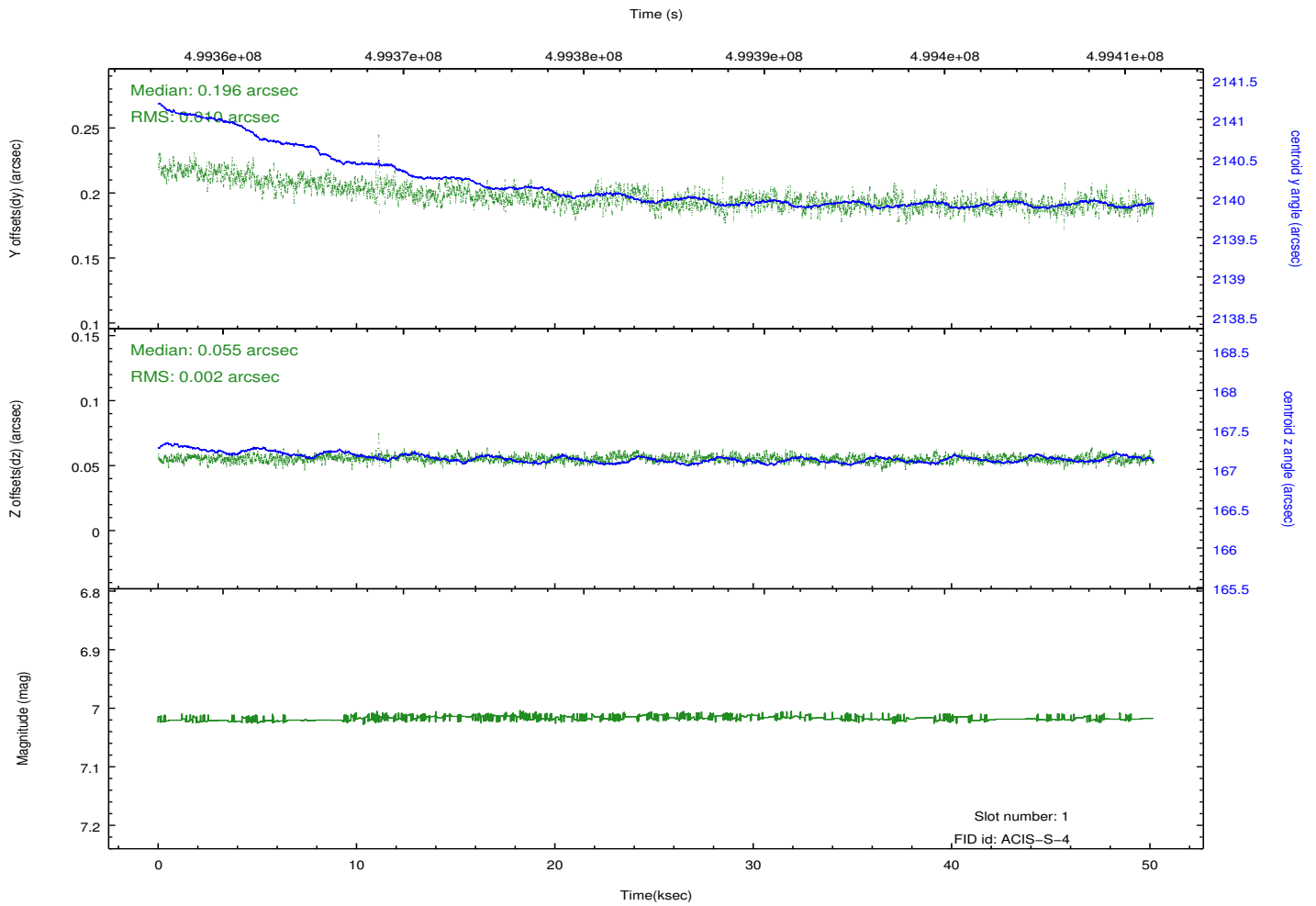
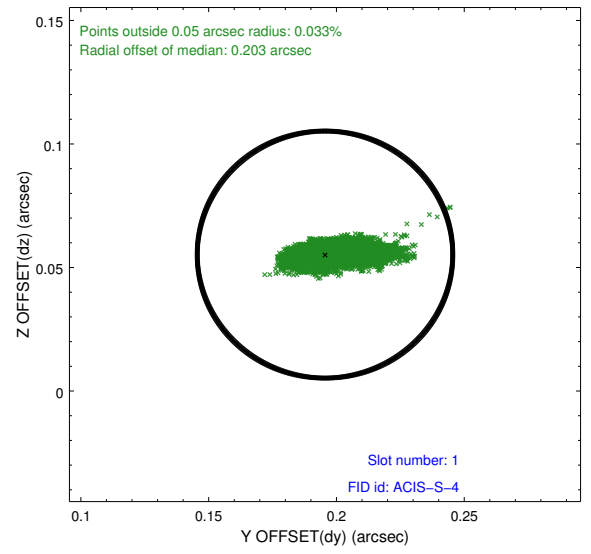
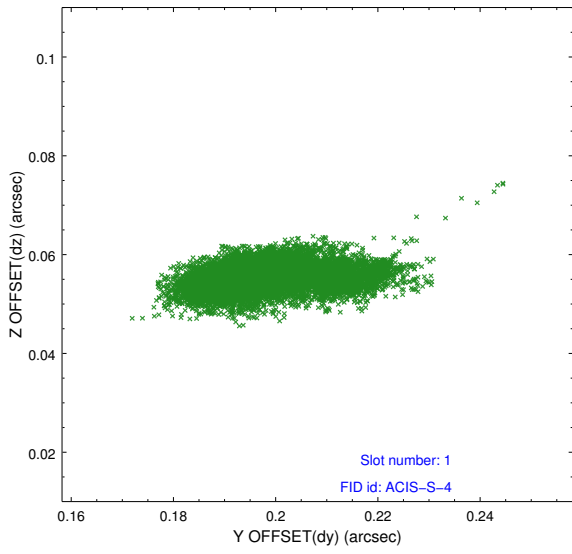


2.5 FID Slots

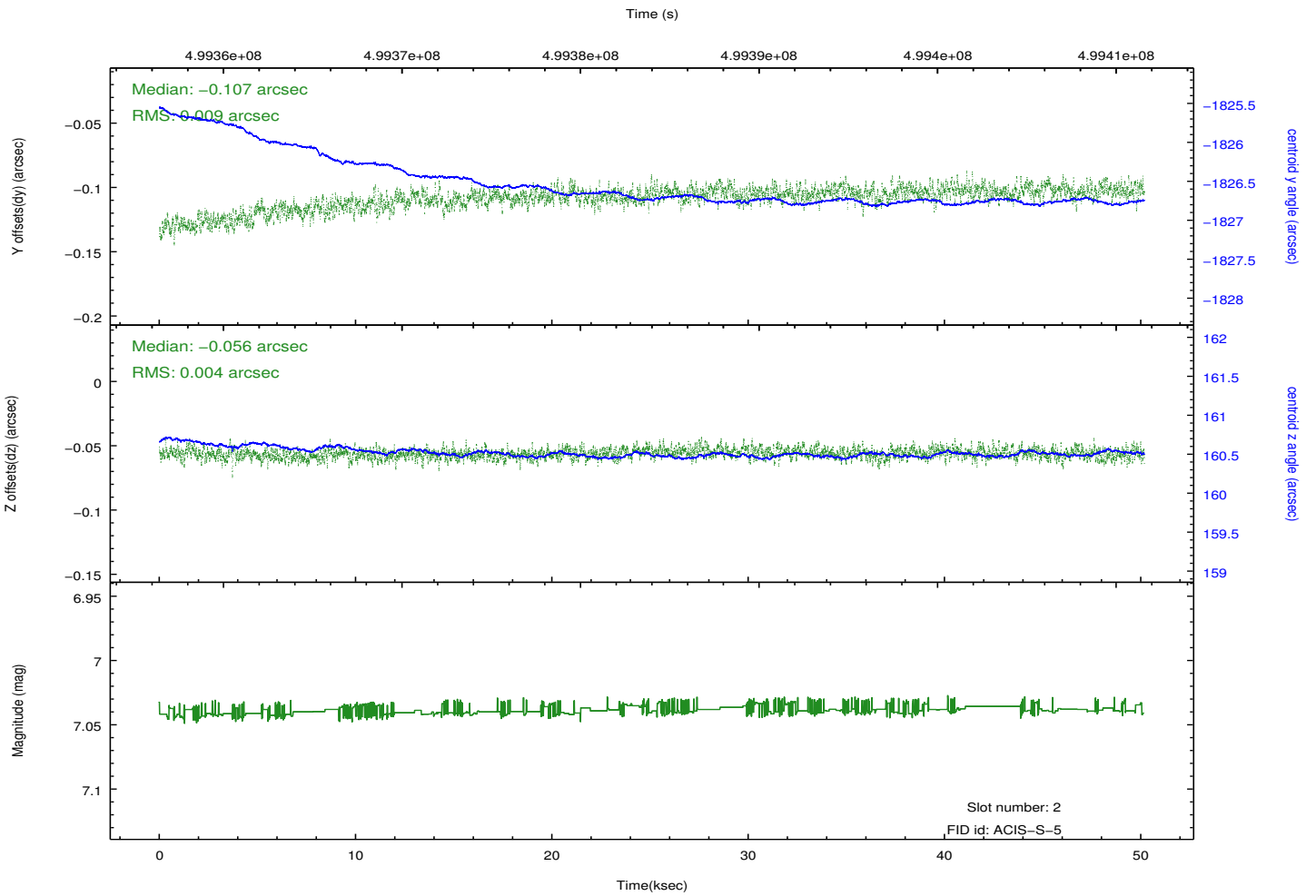
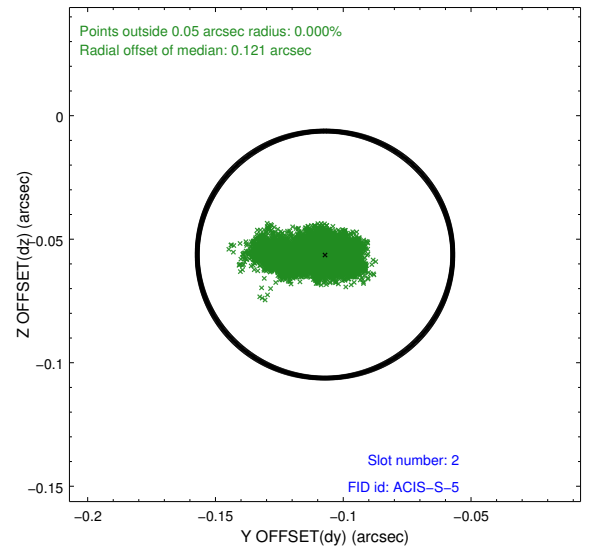
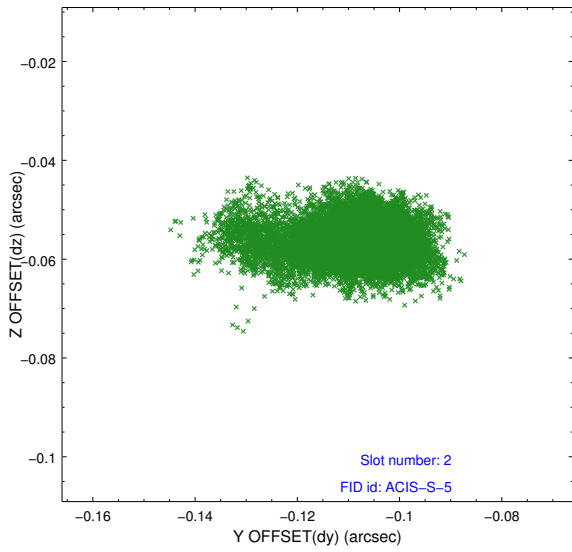
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.069197015643

A.2 Comments

Joint proposal with XMM and NRAO.

Observation coordinated with EVLA and XMM.

Window preference met.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.