

V&V Reference Report

L2 ASCDS Version : 10

Observation 15042 - L2 Version 2
Chandra X-Ray Center

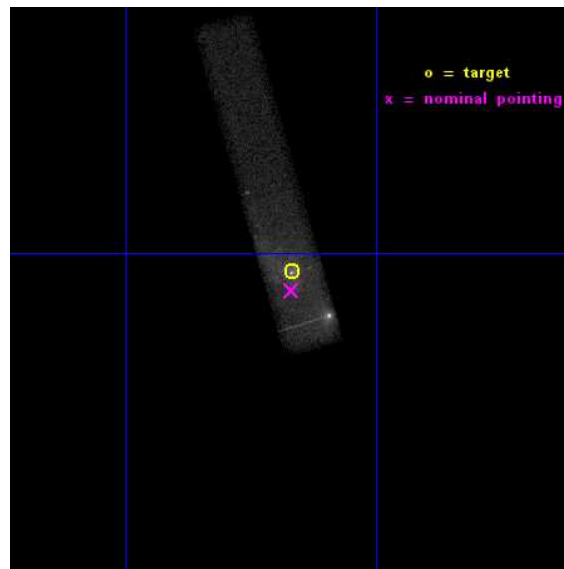
L2 Processing Date : Dec 5 2014

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1 Front

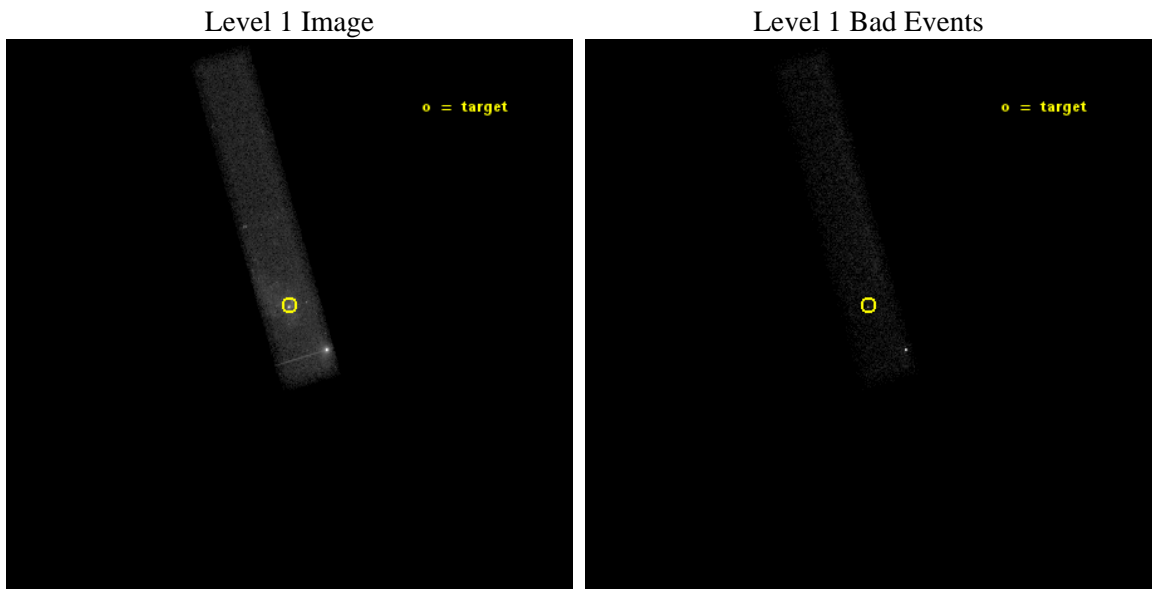
seq_num	702849	Sequence number
obs_id	15042	Observation id
title	Joint Chandra/XMM/EVLA Monitoring of the Gas Cloud G2 as it Encounters Sgr A*	Proposal title
observer	Dr. Daryl Haggard	Principal investigator
object	Sgr A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.00775	Observer's specified target Dec [deg]
ra_nom	266.41705580274	Nominal RA [deg]
dec_nom	-29.015608841031	Nominal Dec [deg]
roll_nom	253.65681011905	Nominal Roll [deg]
revision	2	Processing version of data
ontime	49424.0	Sum of GTIs [s]
livetime	45674.996303416	Livetime [s]
ontime7	49424.0	Sum of GTIs [s]
l2events	125546	Number of level 2 events



2 OBI

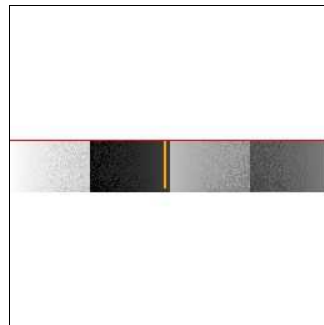
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	49371.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	49424.0	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	49424.0	Sum of GTIs [s]
date	2014-12-06T03:25:39	Date and time of file creation	l1events	166780	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

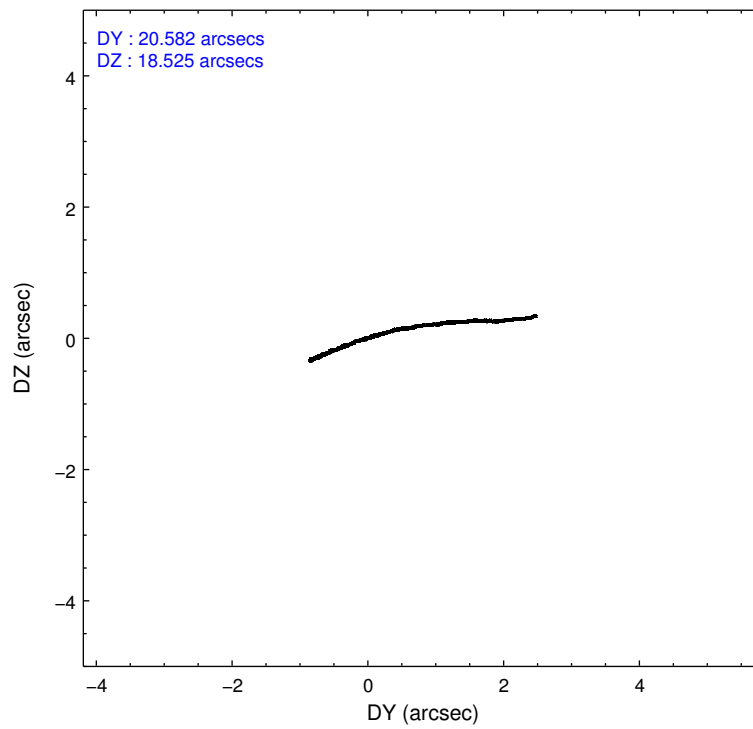
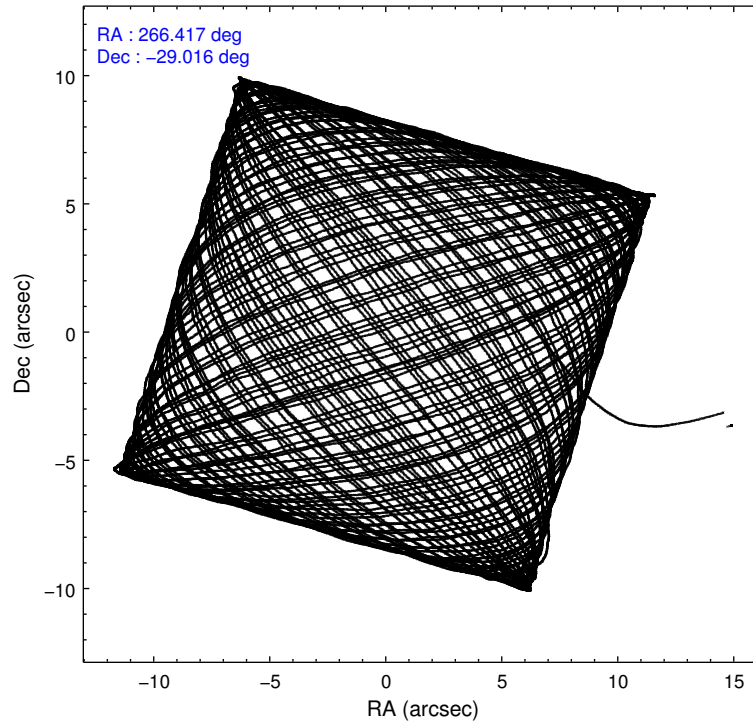
	ccd 7
level 1 events	166780
rejected events	39742
rejected %	23%

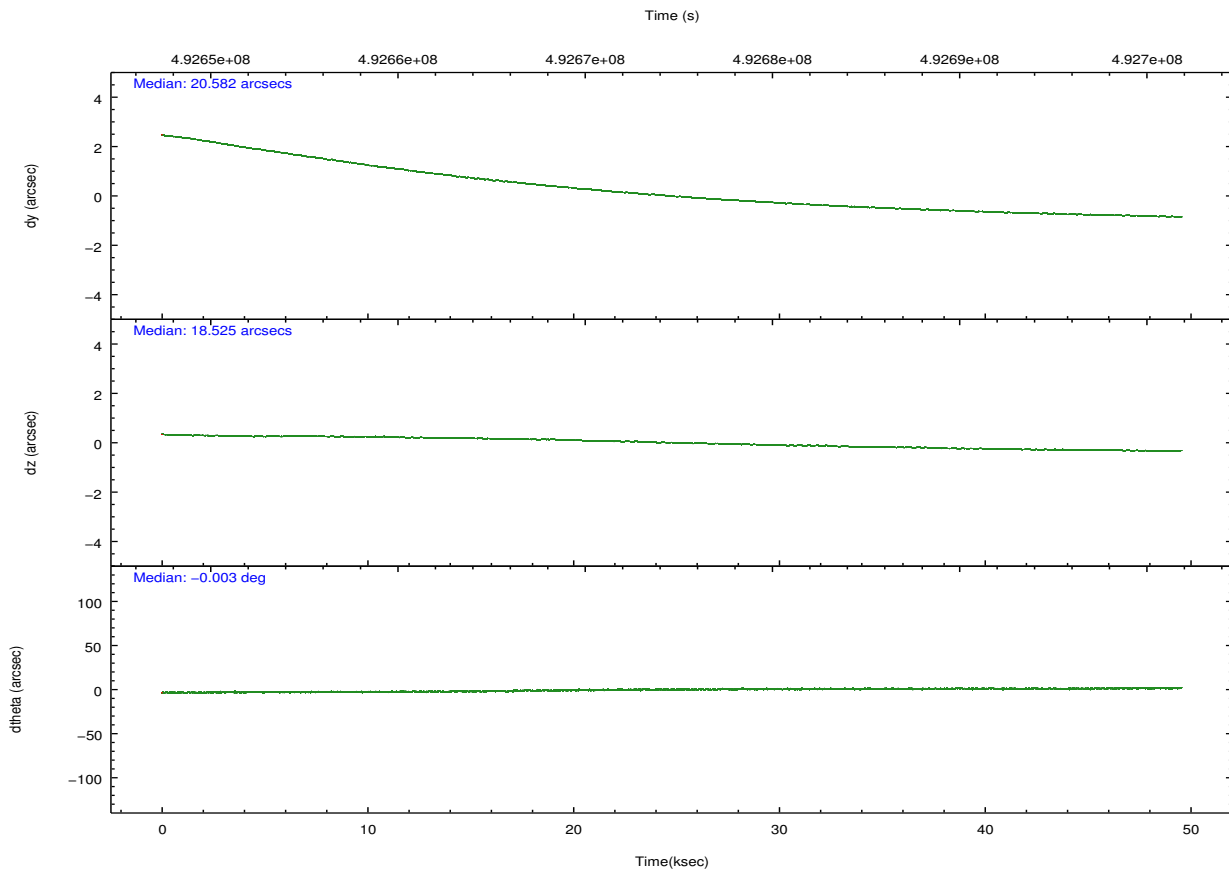
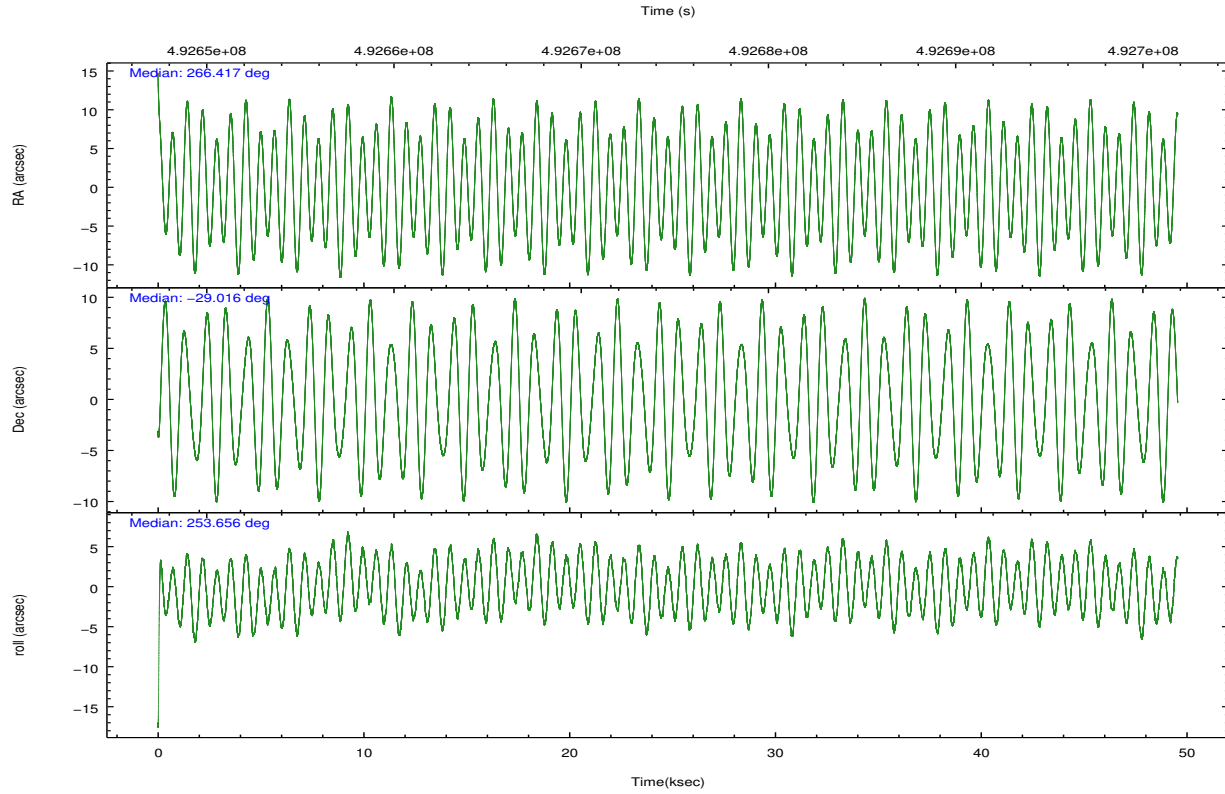
	ccd 7
grade 0 events	20943
	12%
grade 1 events	770
	0%
grade 2 events	27638
	16%
grade 3 events	13192
	7%
grade 4 events	13145
	7%
grade 5 events	9660
	5%
grade 6 events	52122
	31%
grade 7 events	29310
	17%

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	266.409262	266.4170558027371	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	-28.989146	-29.01560884103104	Subarray start row	429	429
[deg] Pointing Roll	253.496412	253.6568101190503	Subarray row count	166	166
[s] Window start time (MET)	492480067.184000	492480067.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	493776007.184000	493776007.184000	[s] Primary exposure time	0.000000	0.5
[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)	492650031.184000	492649078.94746			
Observation start date	2013-08-11T23:12:44	2013-08-11T22:57:58			
[s] Observation end time (MET)	492699402.184000	492700067.06274			
Observation end date	2013-08-12T12:55:35	2013-08-12T13:07:47			
Read mode	TIMED	TIMED			

2.3 Aspect



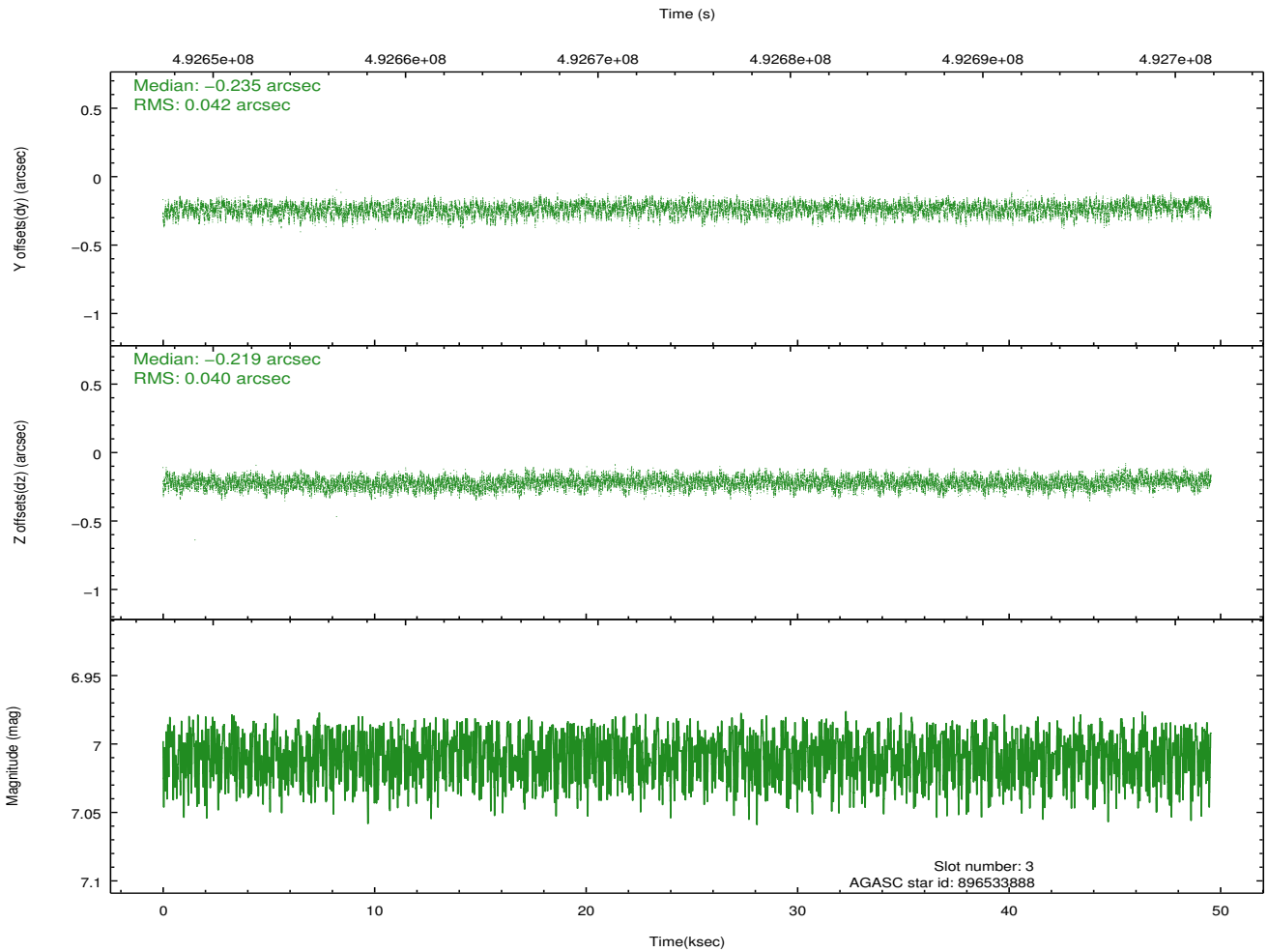
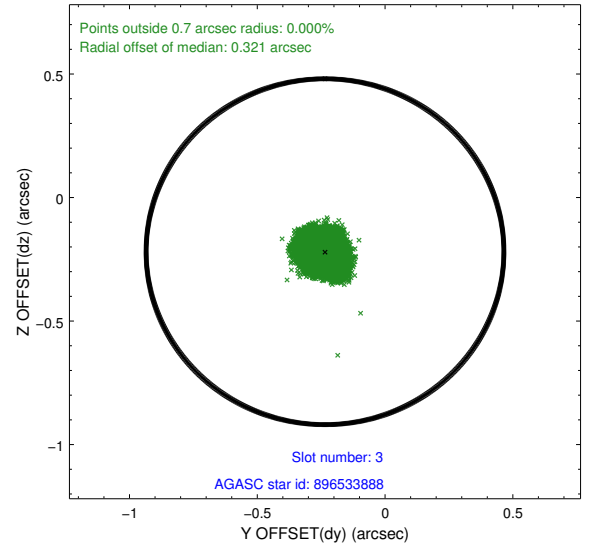
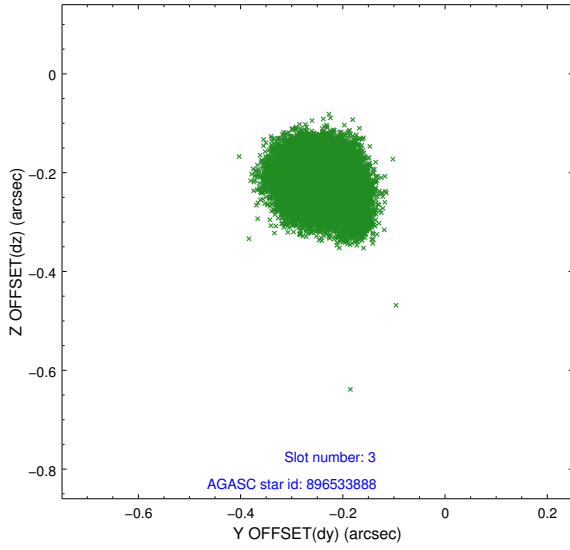


Slot Statistics

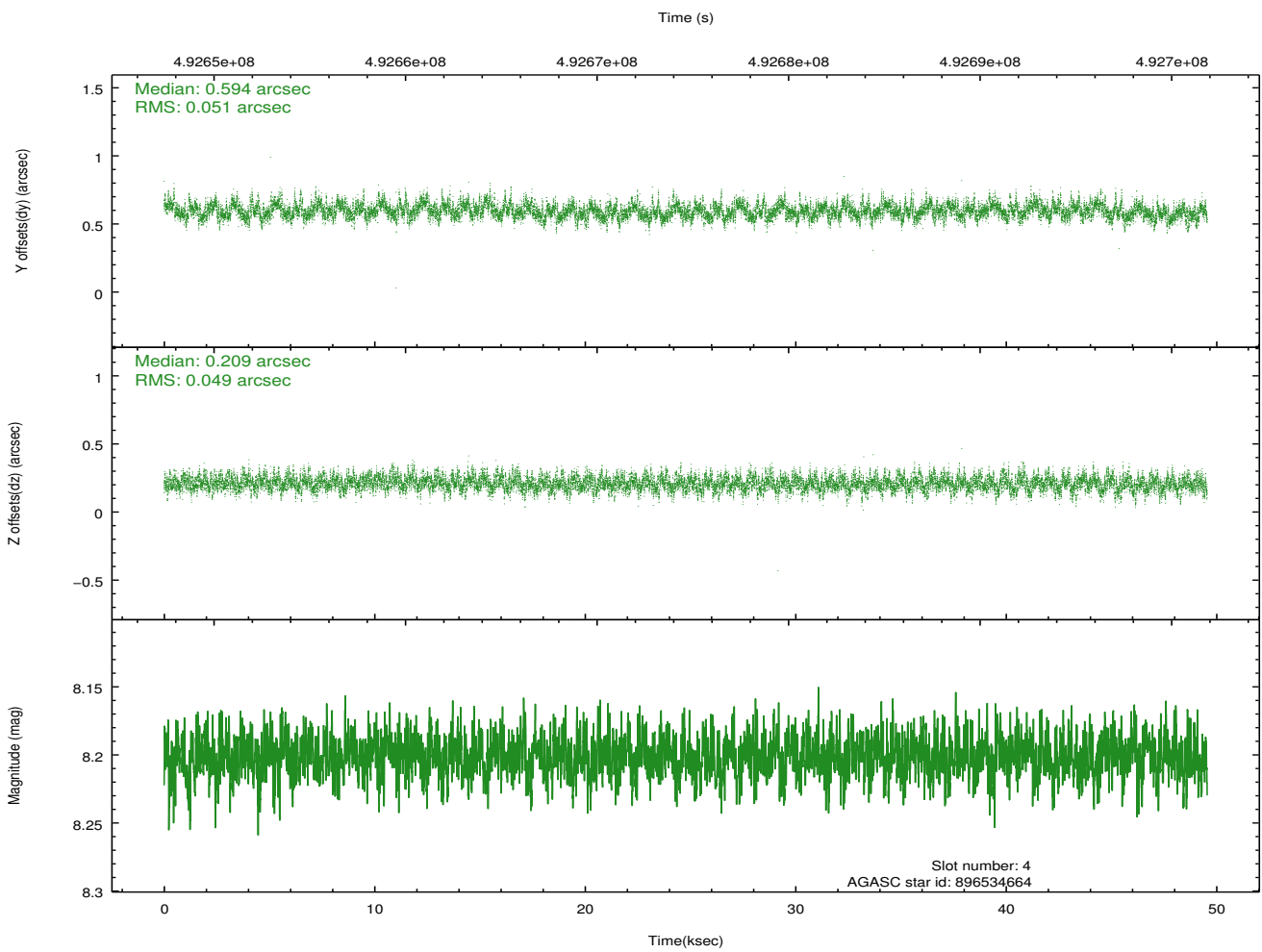
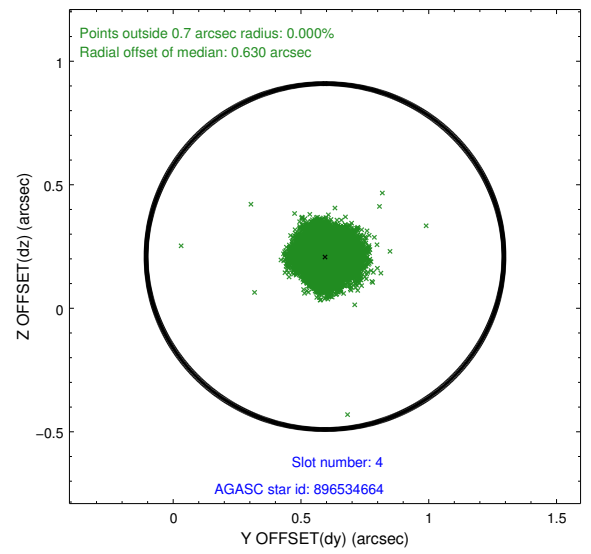
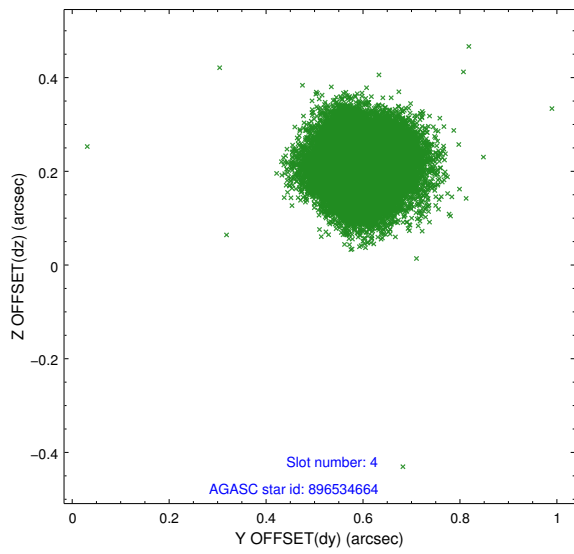
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	12088	-0.119	-0.060	0.008	0.013	0.000000	0.000000	-774.15	-1739.99
1	FID		ACIS-S-4	7.09	12088	0.270	0.073	0.013	0.026	0.000000	0.000000	2139.56	168.58
2	FID		ACIS-S-5	7.12	12088	-0.181	-0.005	0.015	0.028	0.000000	0.000000	-1827.04	162.24
3	GUIDE	used	896533888	7.01	24175	-0.235	-0.219	0.062	0.098	266.666434	-29.392757	1165.06	1186.38
4	GUIDE	used	896534664	8.20	24170	0.594	0.209	0.075	0.121	266.405570	-28.407461	-2003.37	-605.70
5	GUIDE	used	896537776	7.53	24172	-0.287	-0.094	0.068	0.107	266.655684	-29.665673	2117.06	1431.30
6	GUIDE	used	896538696	6.82	24174	-0.072	0.074	0.048	0.076	266.298470	-28.325572	-2190.09	-1014.98
7	GUIDE	used	896540808	7.48	24164	0.001	0.029	0.051	0.085	265.985401	-29.308604	1483.34	-948.24

2.4 Star Slots

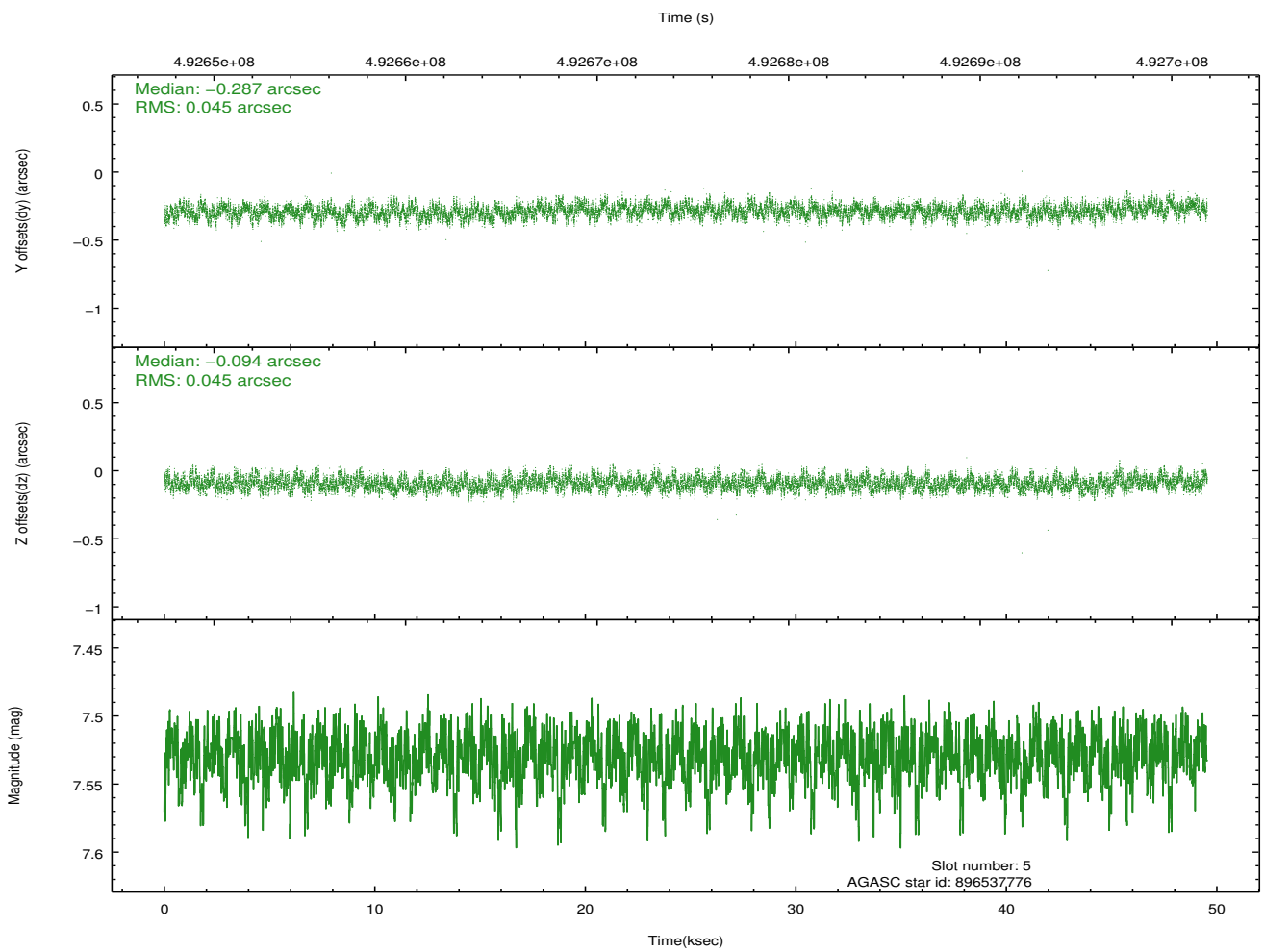
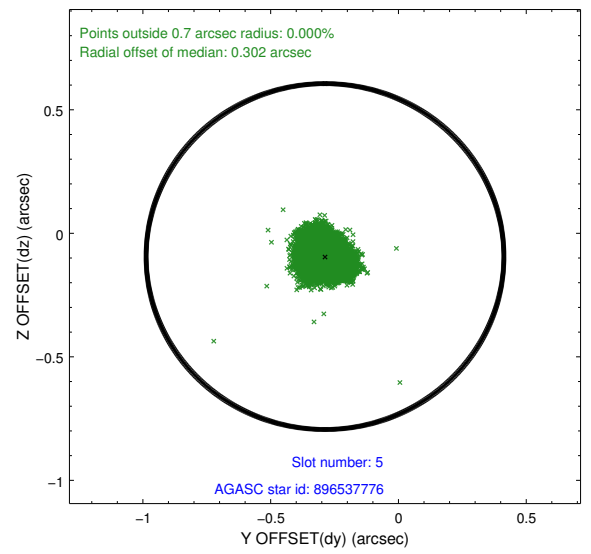
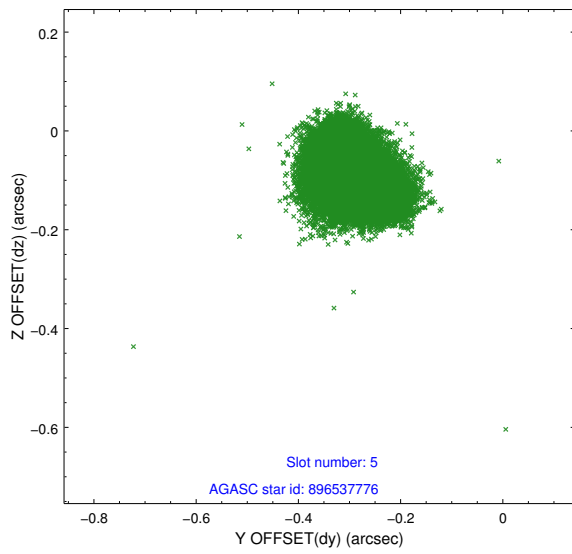
2.4.1 Slot 3



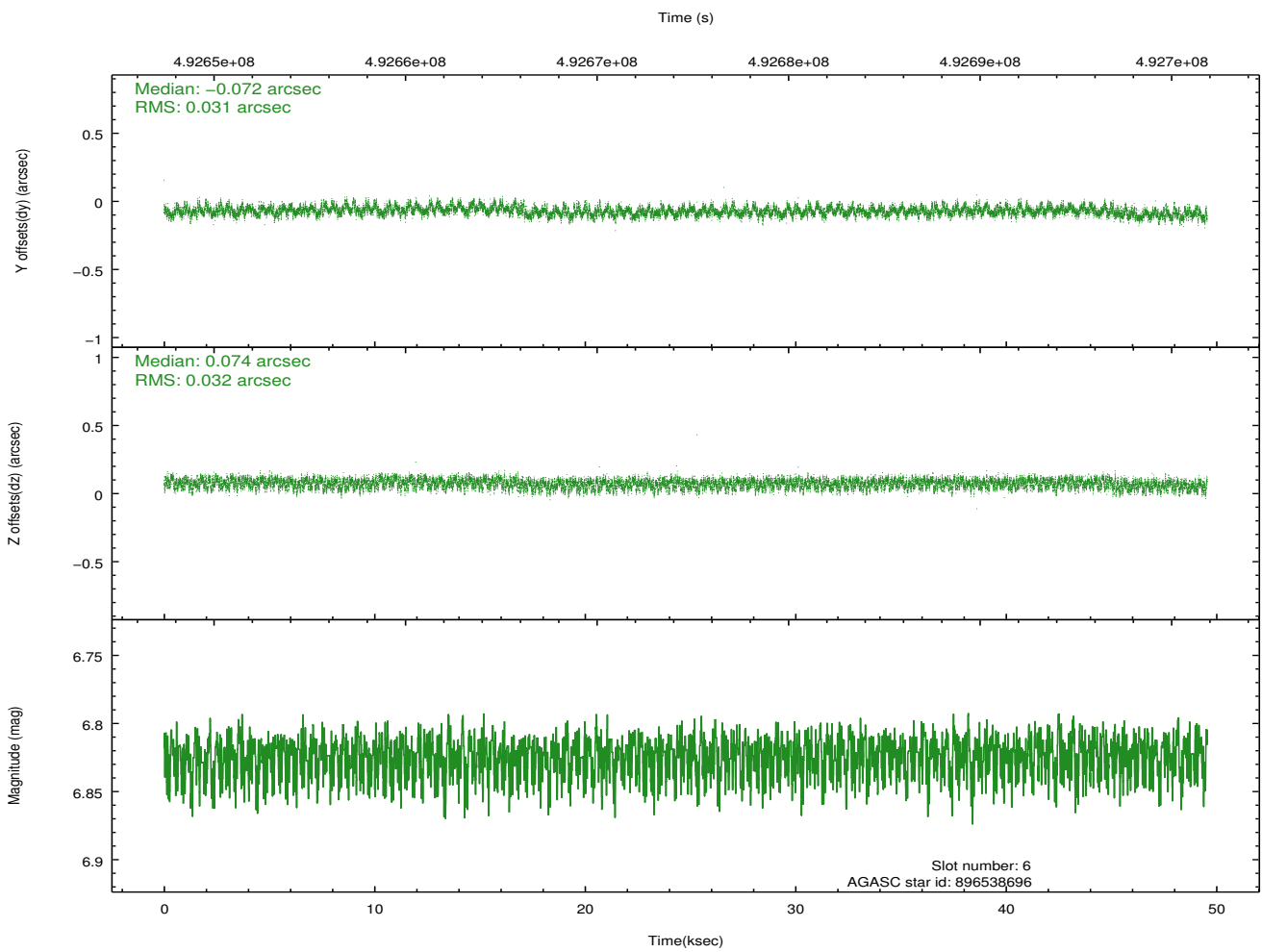
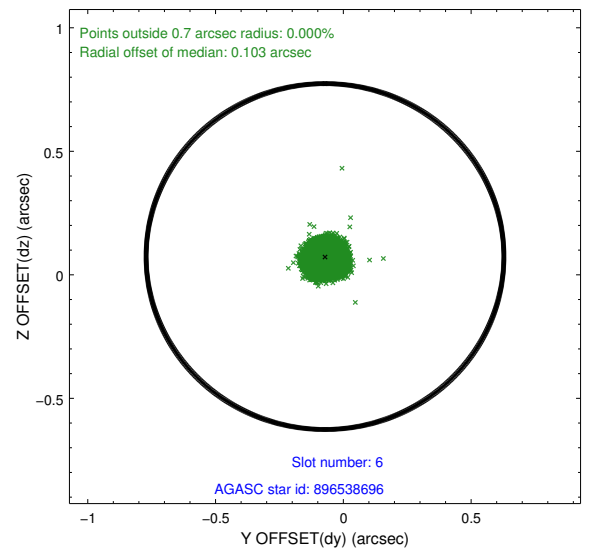
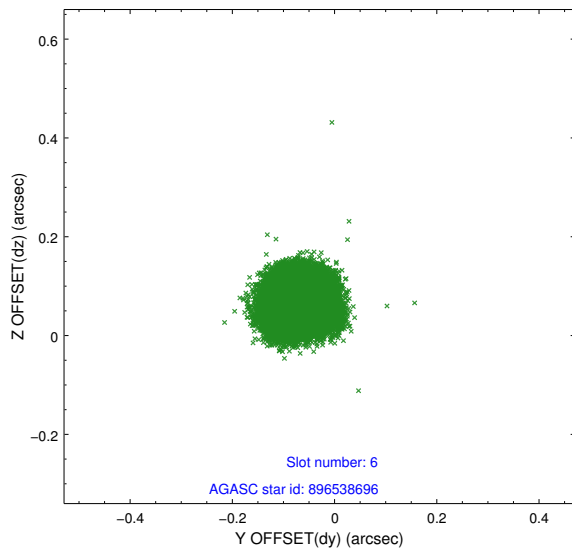
2.4.2 Slot 4



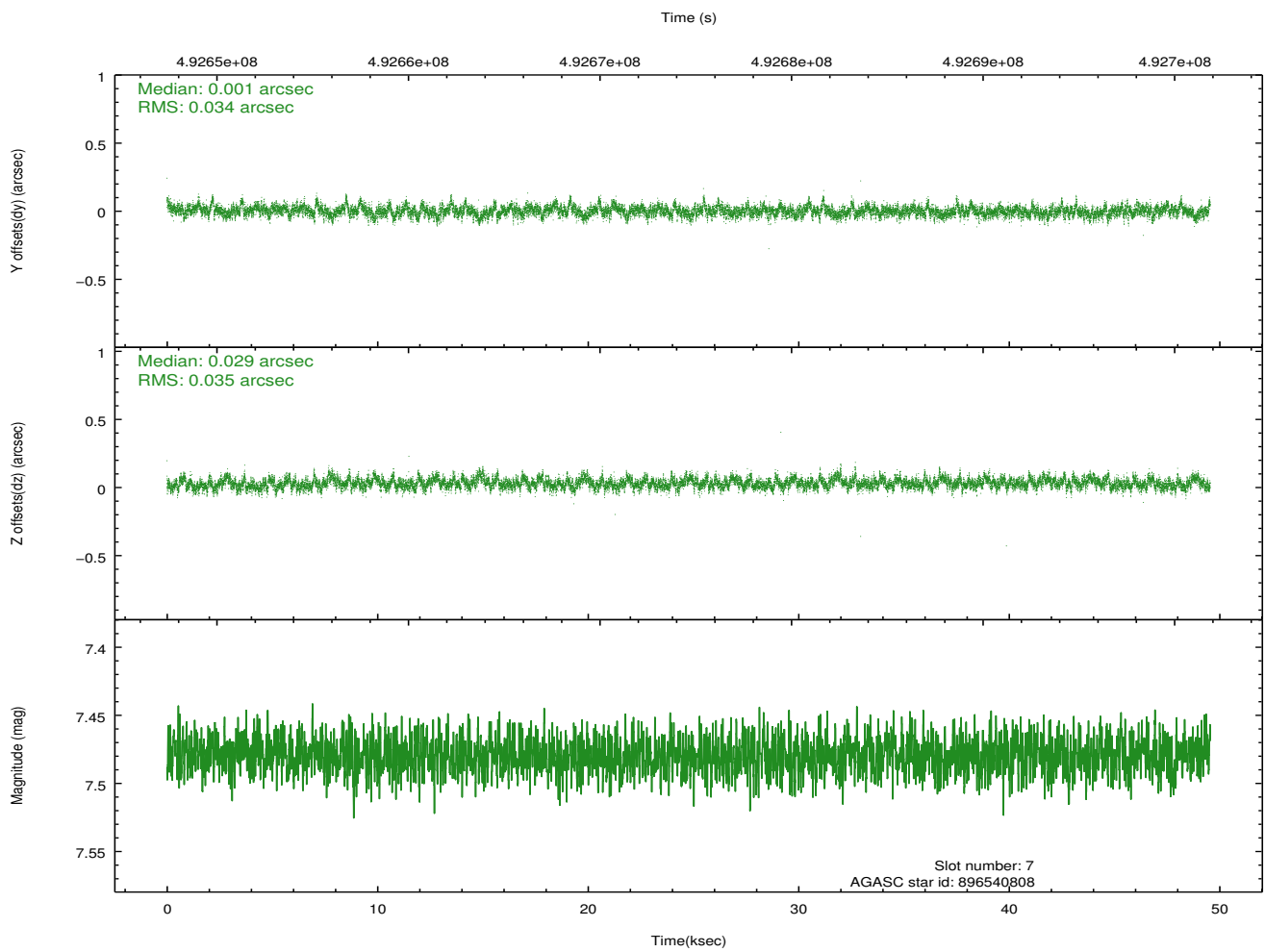
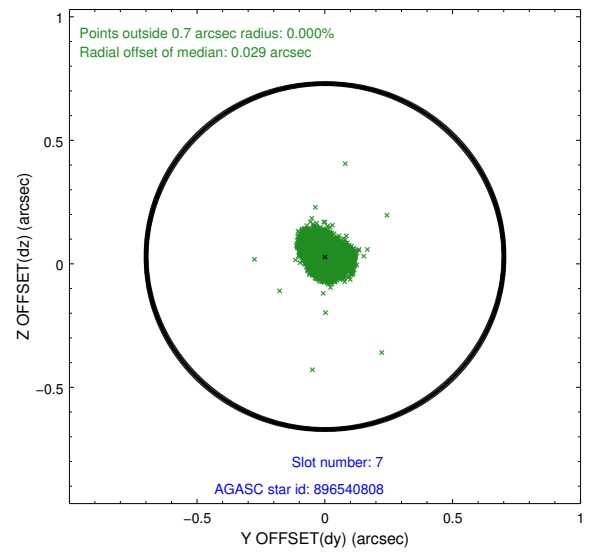
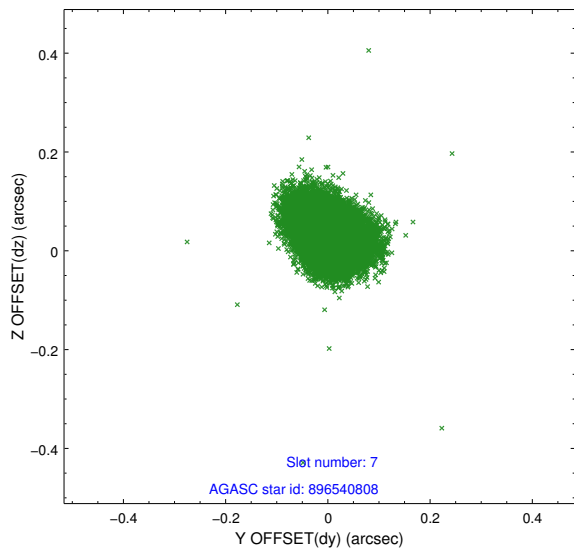
2.4.3 Slot 5



2.4.4 Slot 6

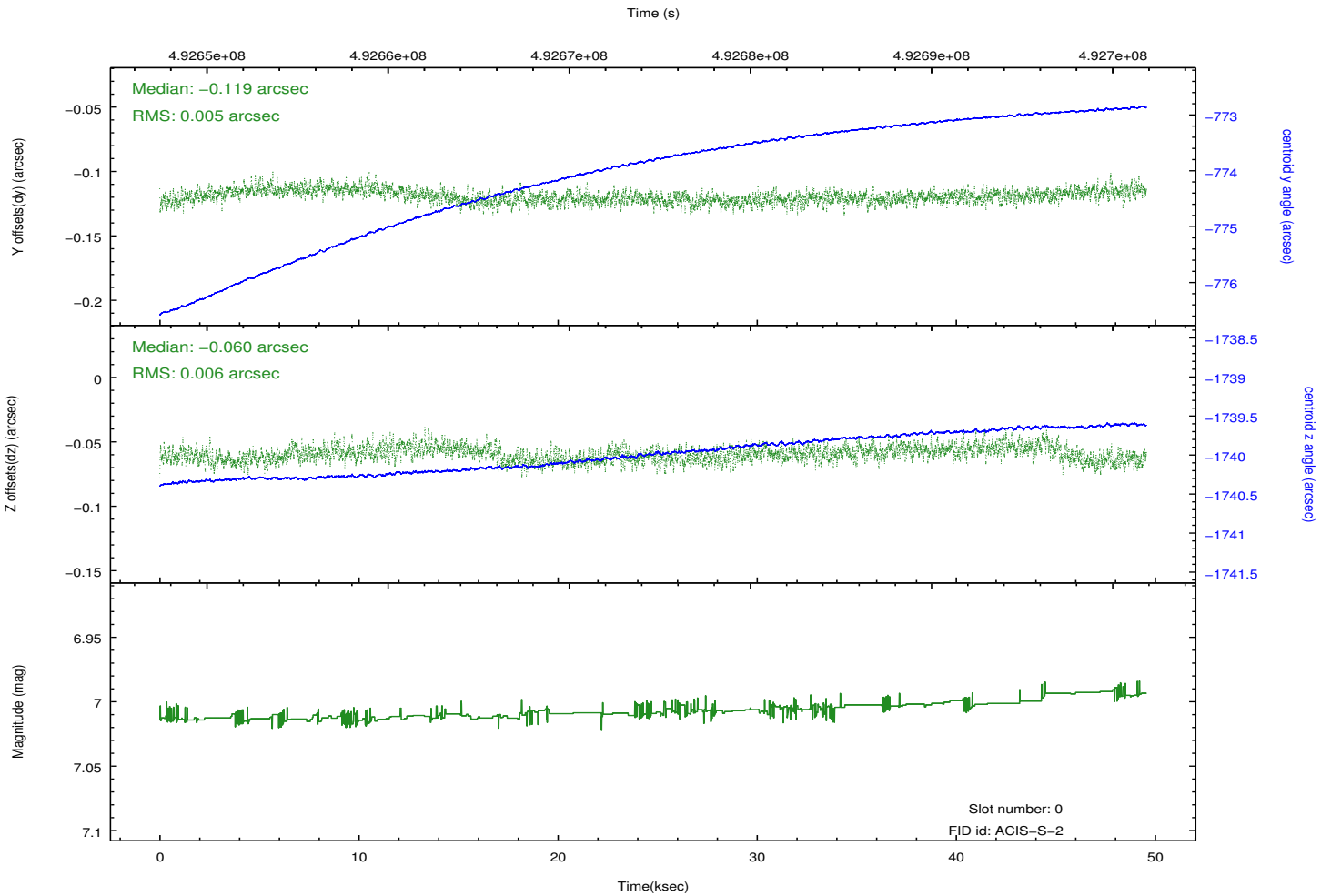
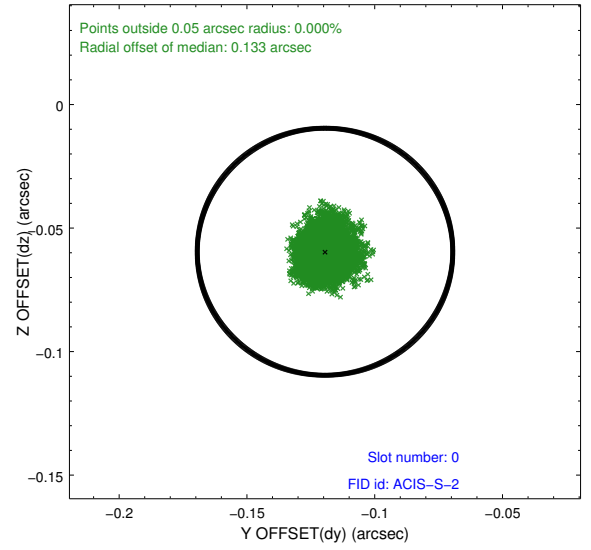
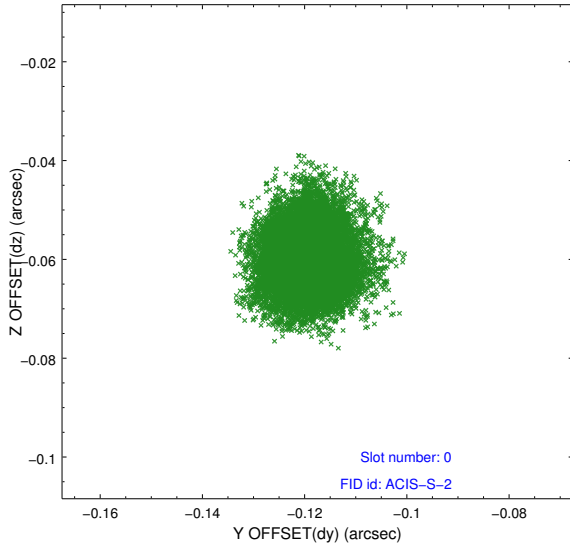


2.4.5 Slot 7

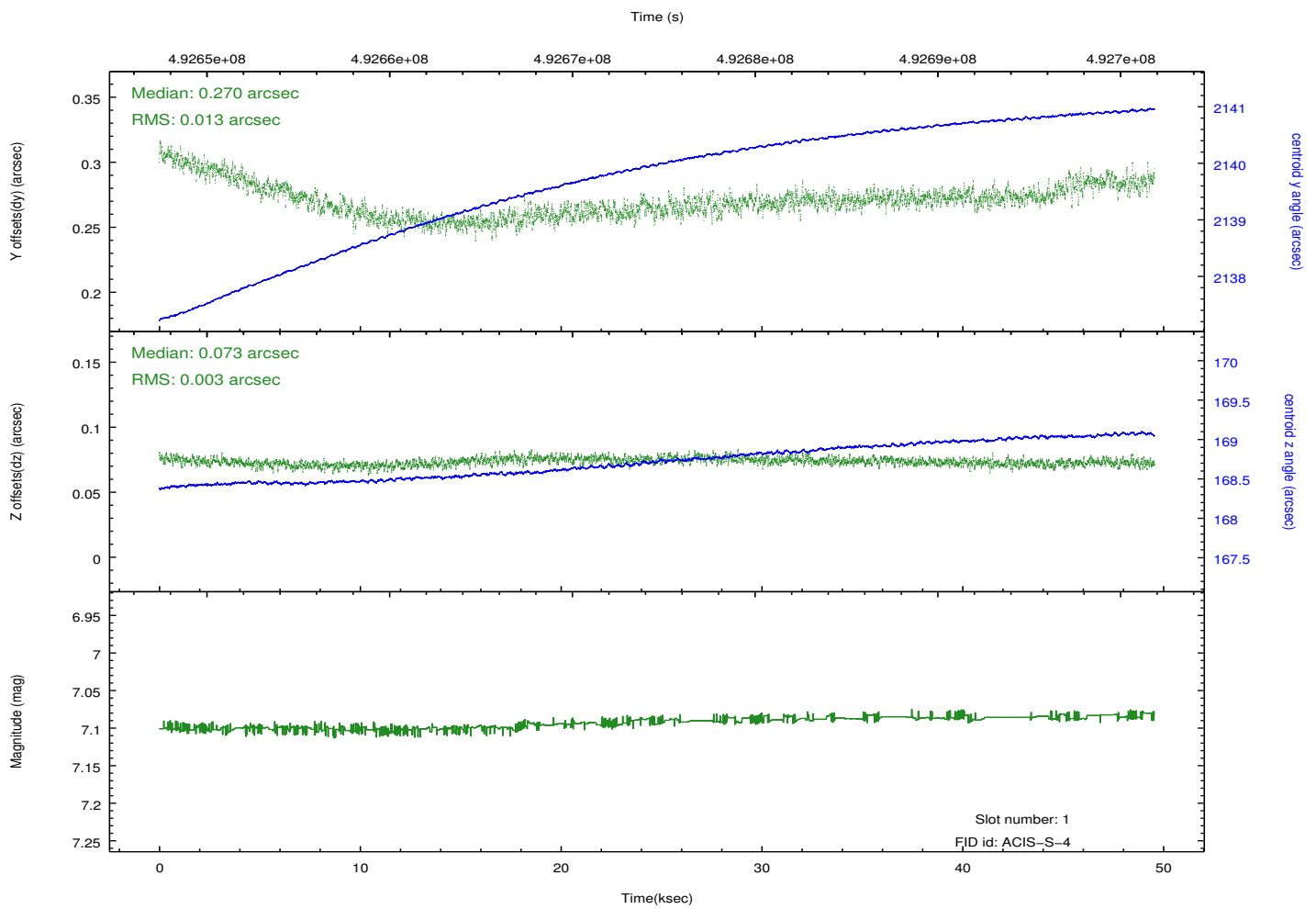
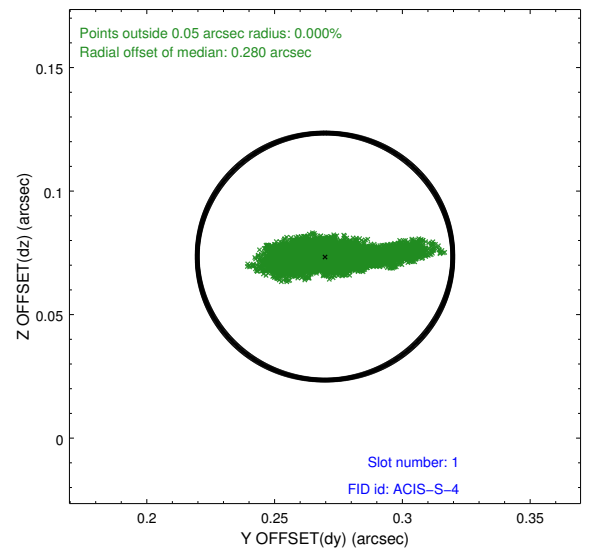
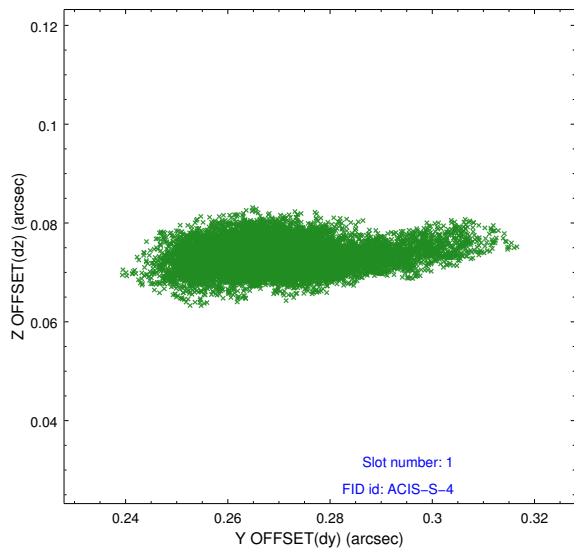


2.5 FID Slots

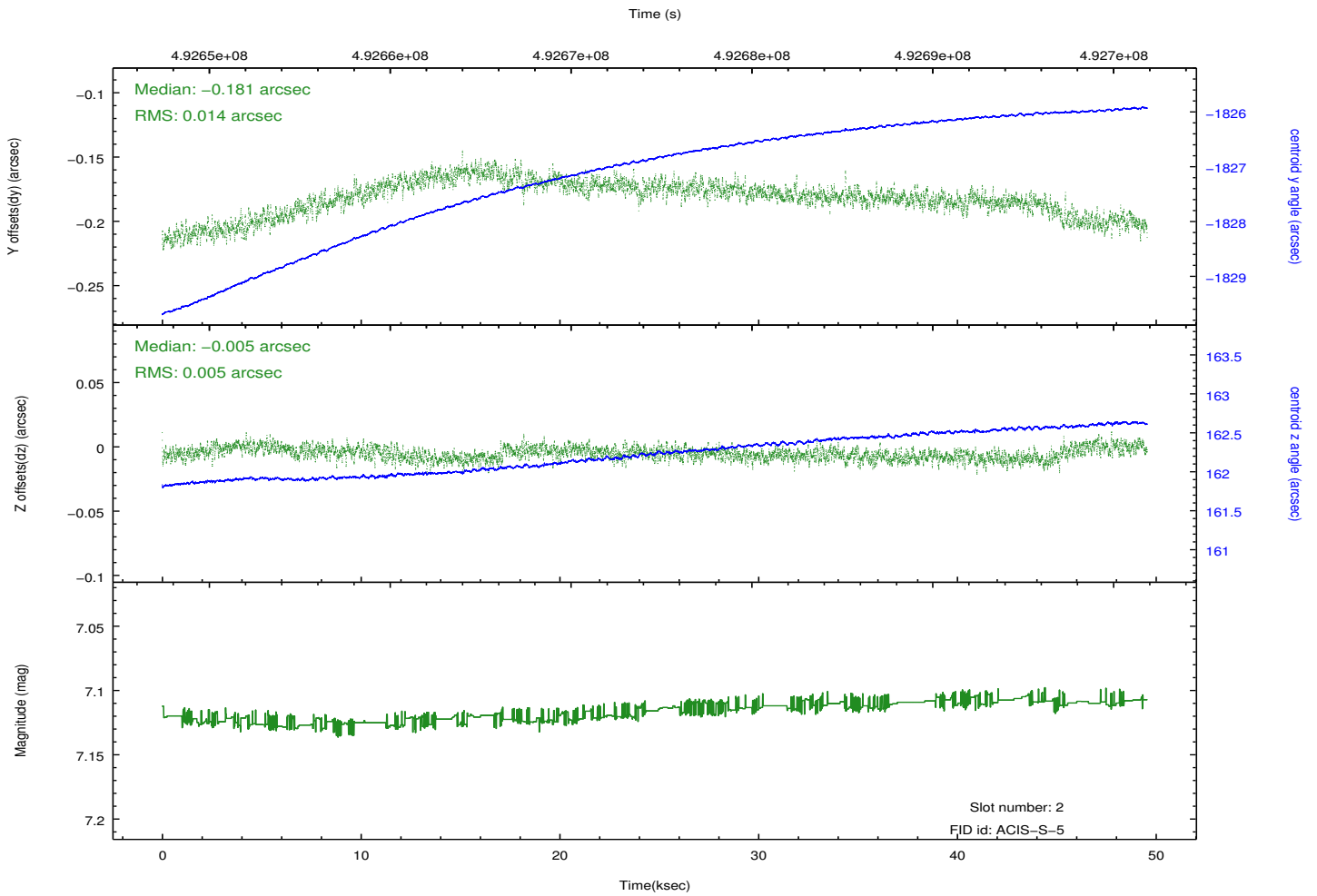
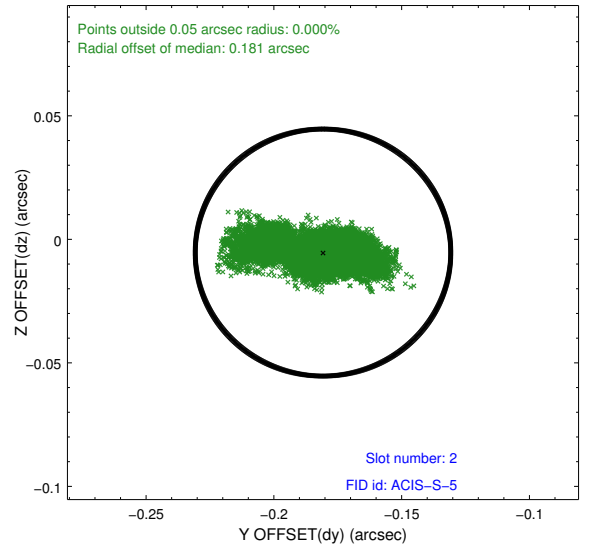
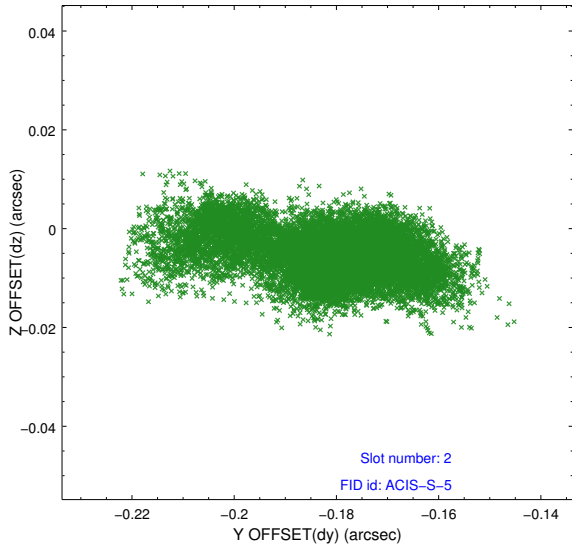
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.424

A.2 Comments

Joint proposal with XMM and NRAO.

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.