

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14646 - L2 Version 2
Chandra X-Ray Center

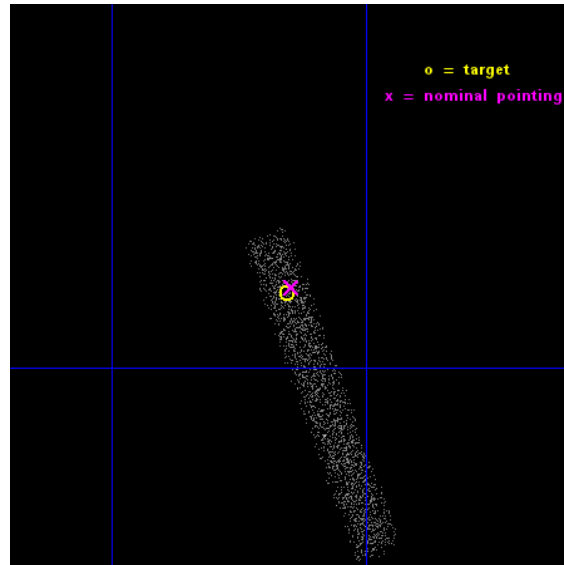
L2 Processing Date : Dec 1 2014

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1 Front

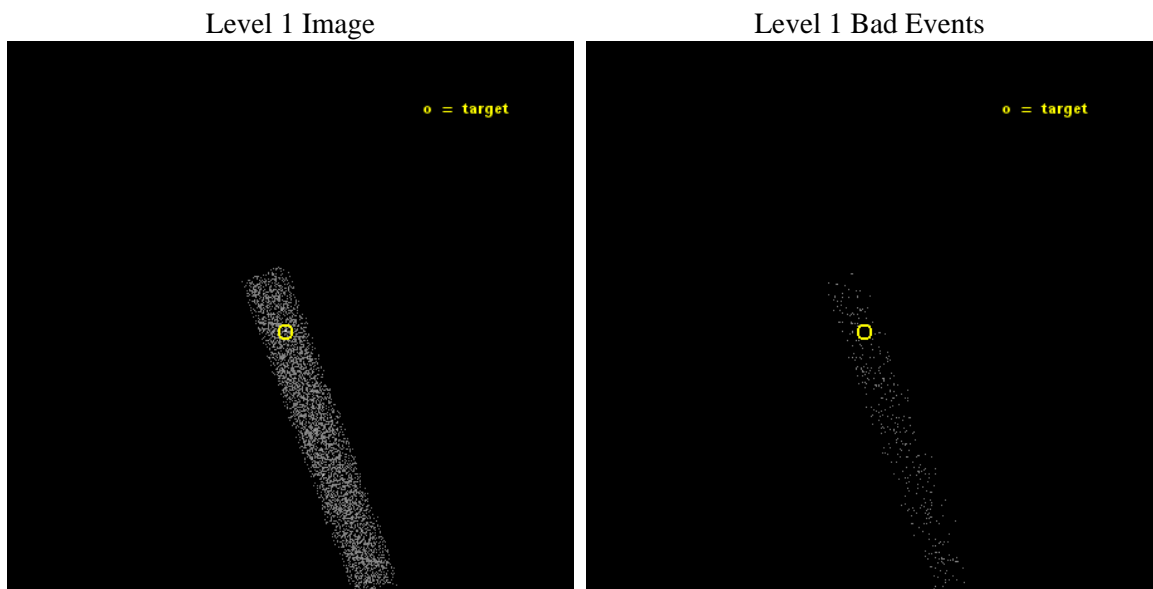
seq_num	401479	Sequence number
obs_id	14646	Observation id
title	A snap-shot survey of Galactic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	XTE J1946+274	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	296.41375	Observer's specified target RA [deg]
dec_targ	27.364611	Observer's specified target Dec [deg]
ra_nom	296.41161974555	Nominal RA [deg]
dec_nom	27.366975747512	Nominal Dec [deg]
roll_nom	69.504935805193	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5069.5996978283	Sum of GTIs [s]
livetime	4597.8593305172	Livetime [s]
ontime7	5069.5996978283	Sum of GTIs [s]
l2events	2632	Number of level 2 events



2 OBI

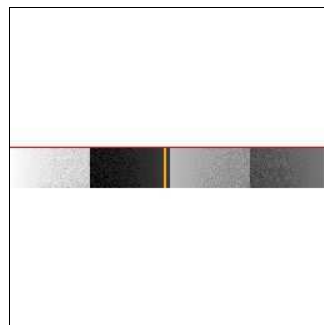
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5069.5996978283	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	5069.5996978283	Sum of GTIs [s]
date	2014-12-02T00:26:25	Date and time of file creation	l1events	5405	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

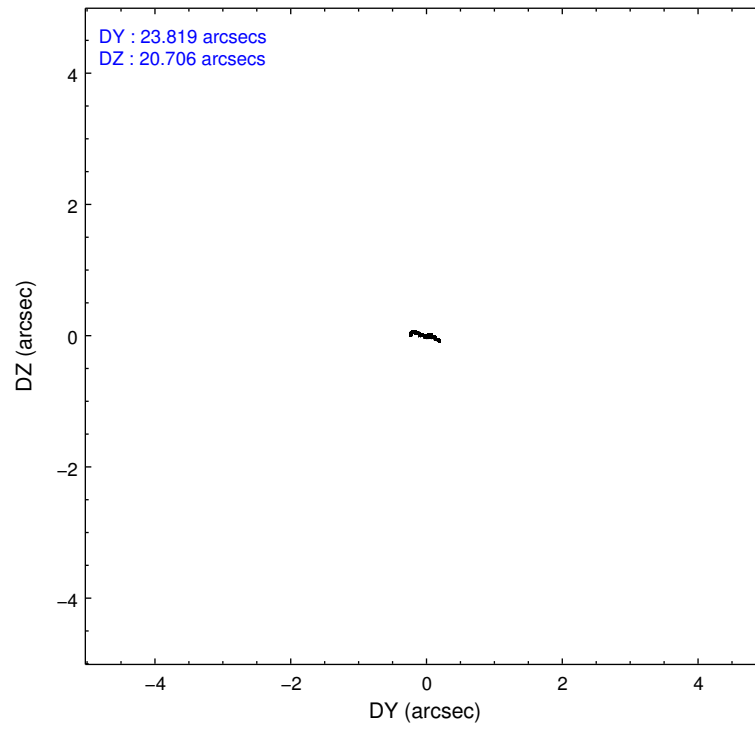
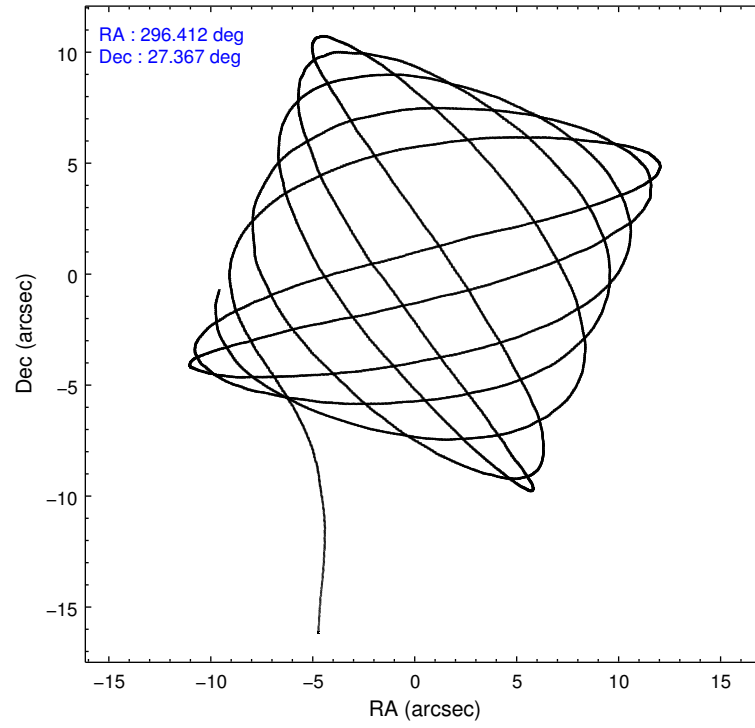
	ccd 7
level 1 events	5405
rejected events	2648
rejected %	48%

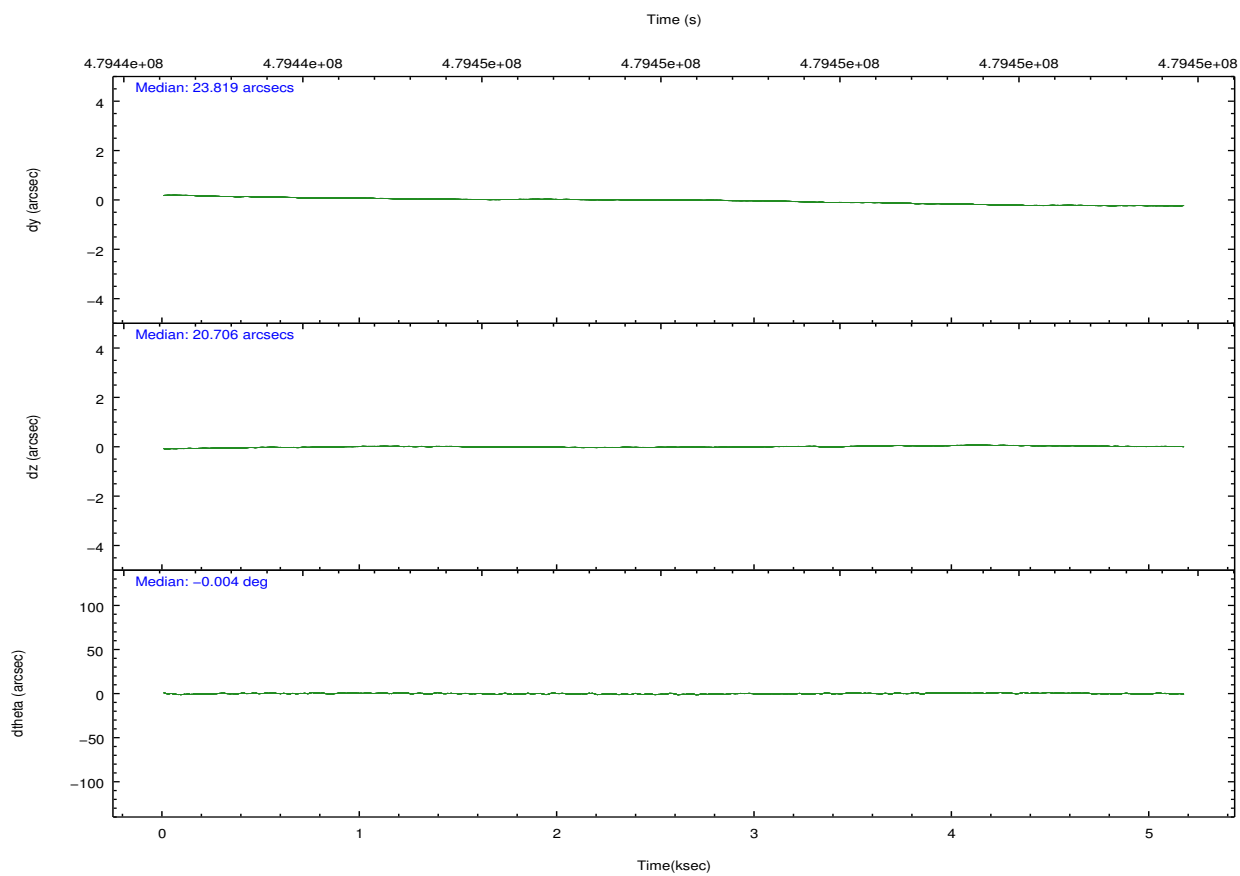
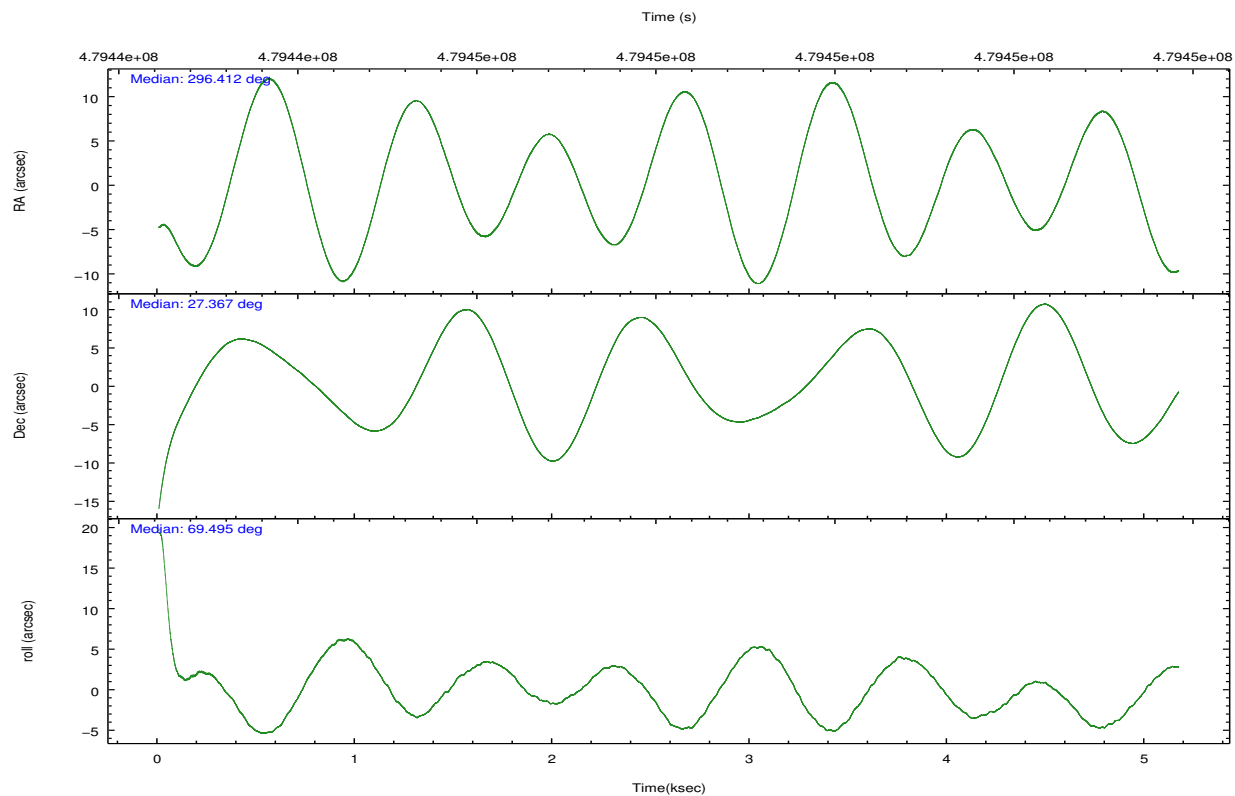
	ccd 7
grade 0 events	319
	5%
grade 1 events	12
	0%
grade 2 events	549
	10%
grade 3 events	399
	7%
grade 4 events	338
	6%
grade 5 events	539
	9%
grade 6 events	1152
	21%
grade 7 events	2097
	38%

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	296.417193	296.411619745554	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	27.340123	27.36697574751192	Subarray start row	449	449
[deg] Pointing Roll	69.345704	69.50493580519256	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	479444658.184000	479443579.90591			
Observation start date	2013-03-12T03:03:11	2013-03-12T02:46:19			
[s] Observation end time (MET)	479449658.184000	479450670.8563			
Observation end date	2013-03-12T04:26:31	2013-03-12T04:44:30			
Read mode	TIMED	TIMED			

2.3 Aspect



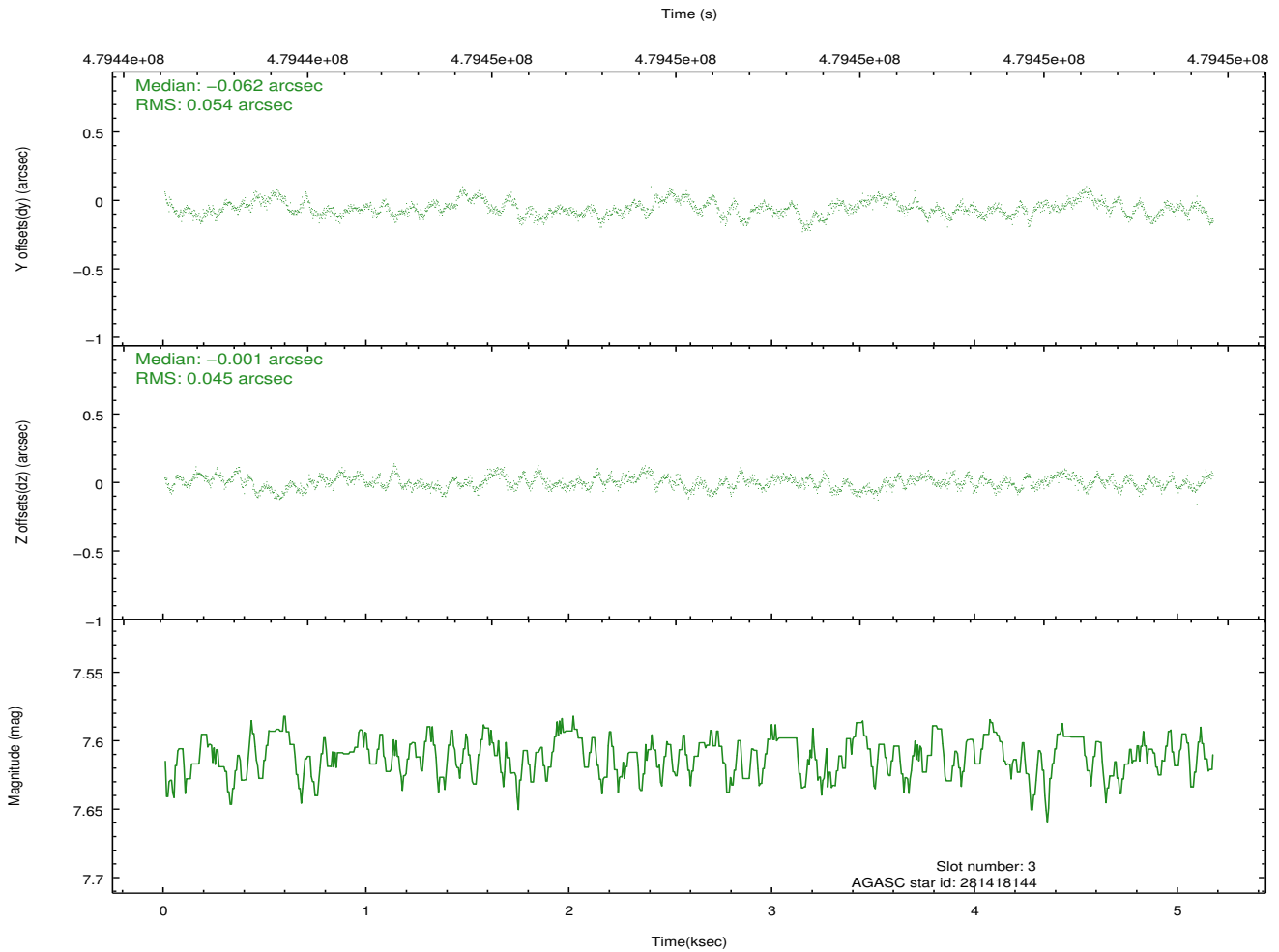
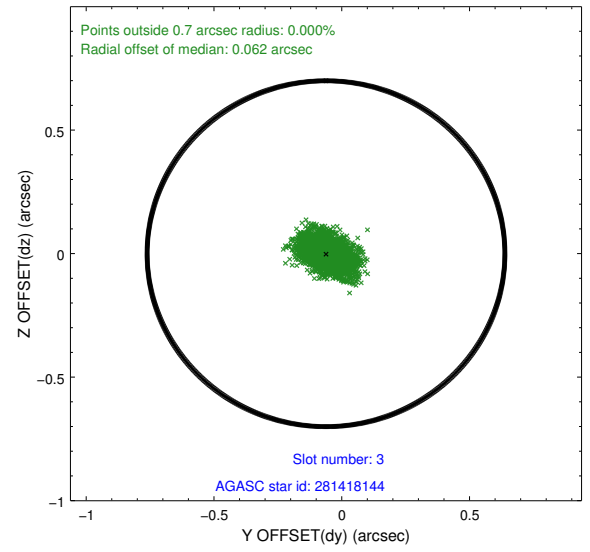
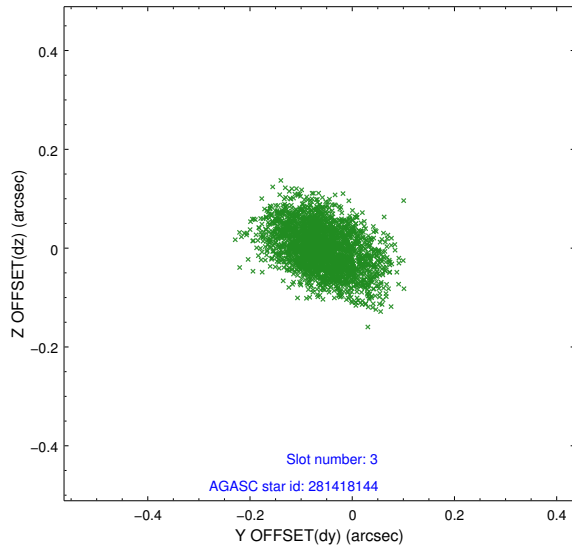


Slot Statistics

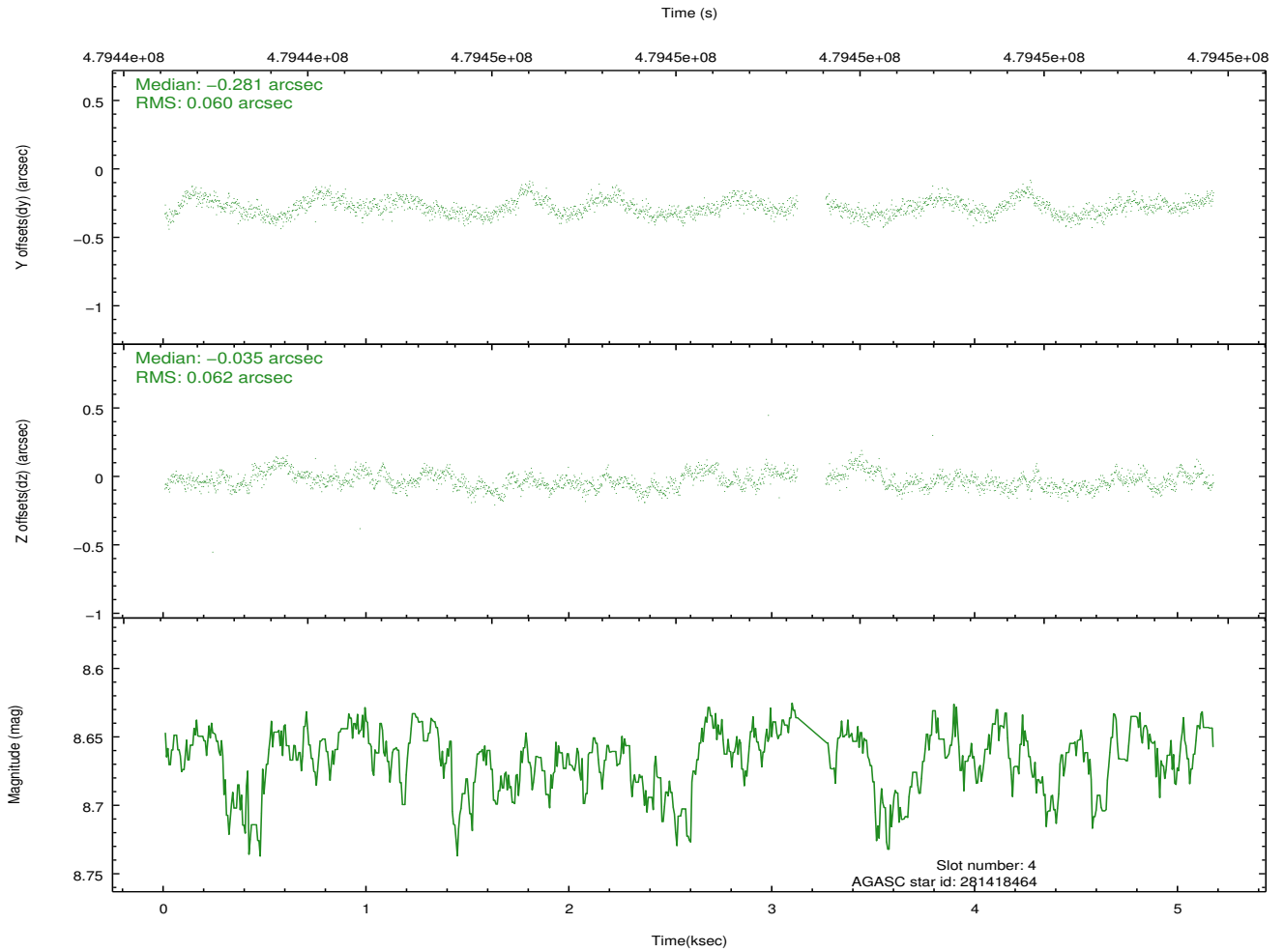
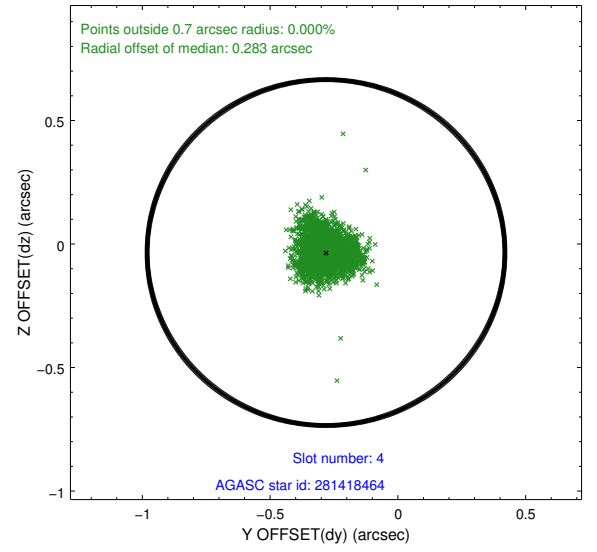
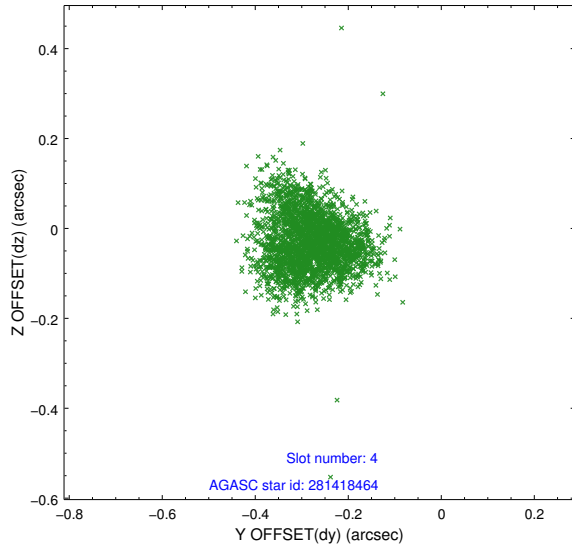
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.91	1261	-0.146	-0.012	0.008	0.014	0.000000	0.000000	-777.12	-1742.20
1	FID		ACIS-S-4	6.98	1261	0.333	0.074	0.008	0.015	0.000000	0.000000	2136.08	165.16
2	FID		ACIS-S-5	7.01	1261	-0.218	-0.053	0.007	0.012	0.000000	0.000000	-1828.55	160.02
3	GUIDE	used	281418144	7.61	2522	-0.062	-0.001	0.075	0.124	295.984516	27.441391	-143.68	1422.86
4	GUIDE	used	281418464	8.66	2453	-0.281	-0.035	0.092	0.145	296.120749	27.464615	86.28	1045.17
5	GUIDE	used	281420048	8.62	2509	0.179	-0.124	0.082	0.144	295.635705	27.253771	-1165.26	2233.21
6	GUIDE	used	281437456	8.82	2522	0.237	0.042	0.082	0.127	296.090805	27.004062	-1499.90	554.04
7	GUIDE	used	281575104	7.14	2521	-0.087	0.113	0.072	0.119	297.285690	27.731696	2302.30	-2090.46

2.4 Star Slots

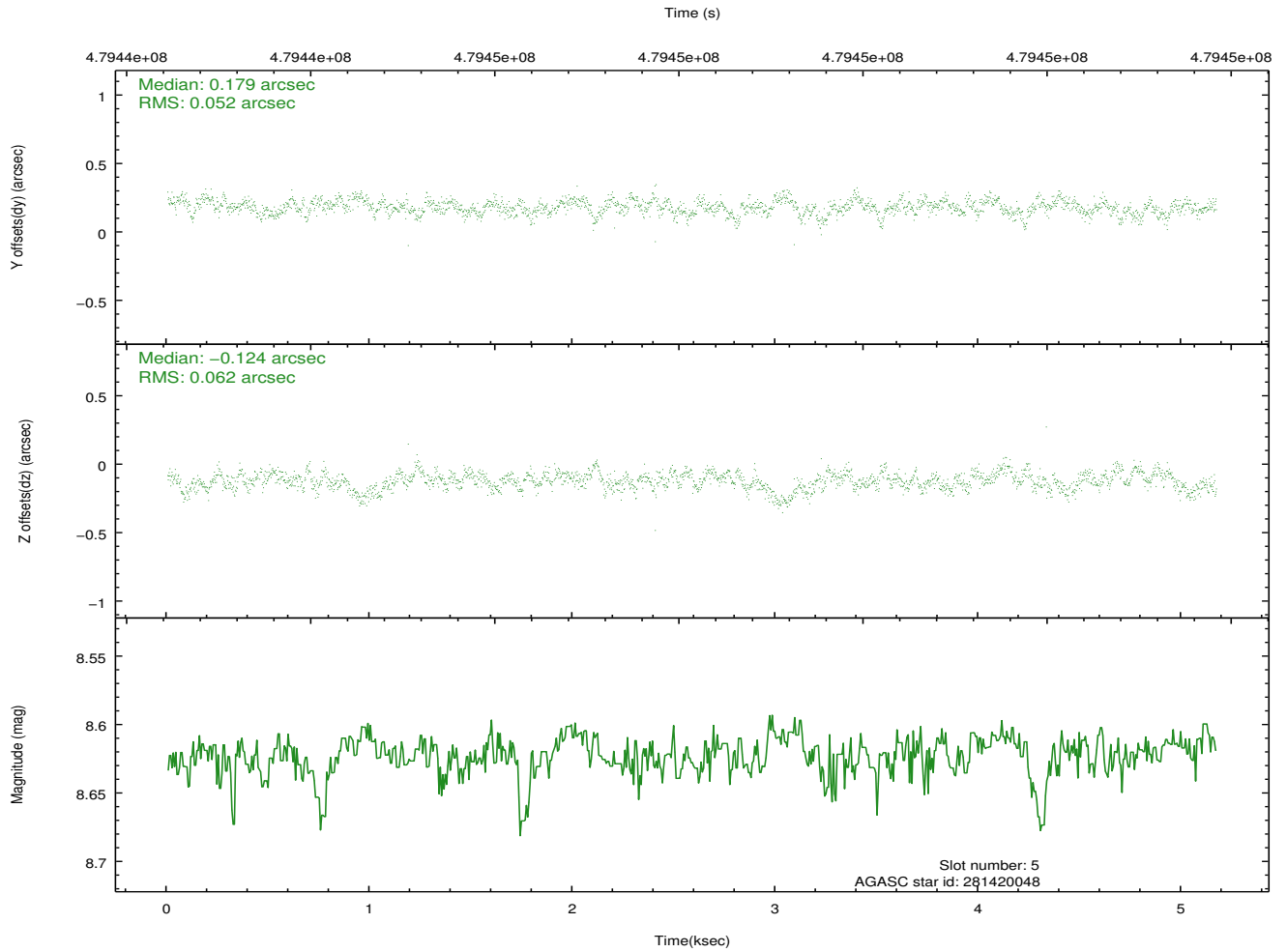
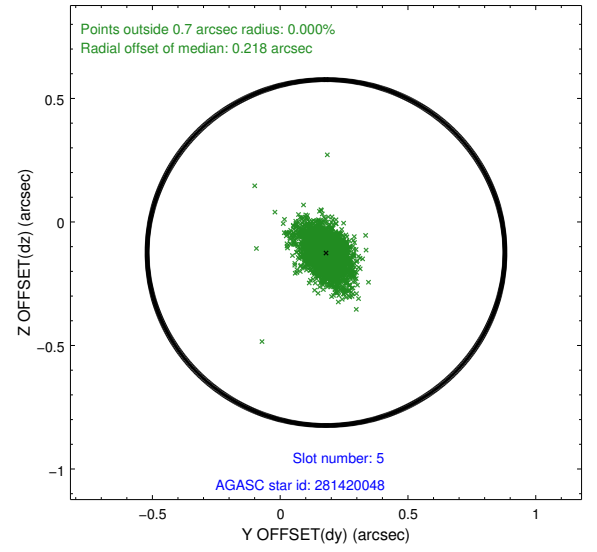
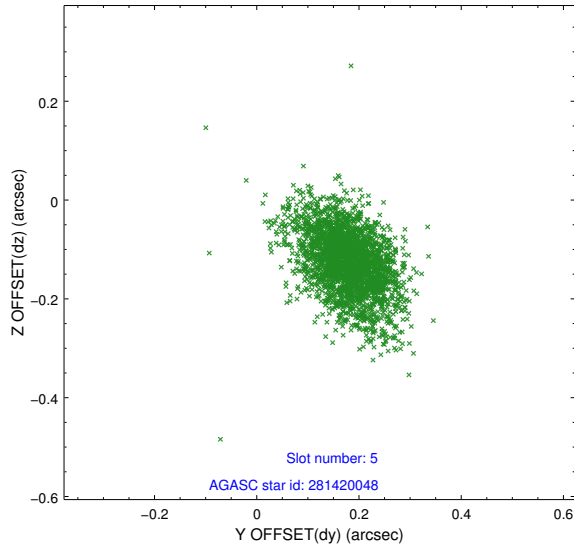
2.4.1 Slot 3



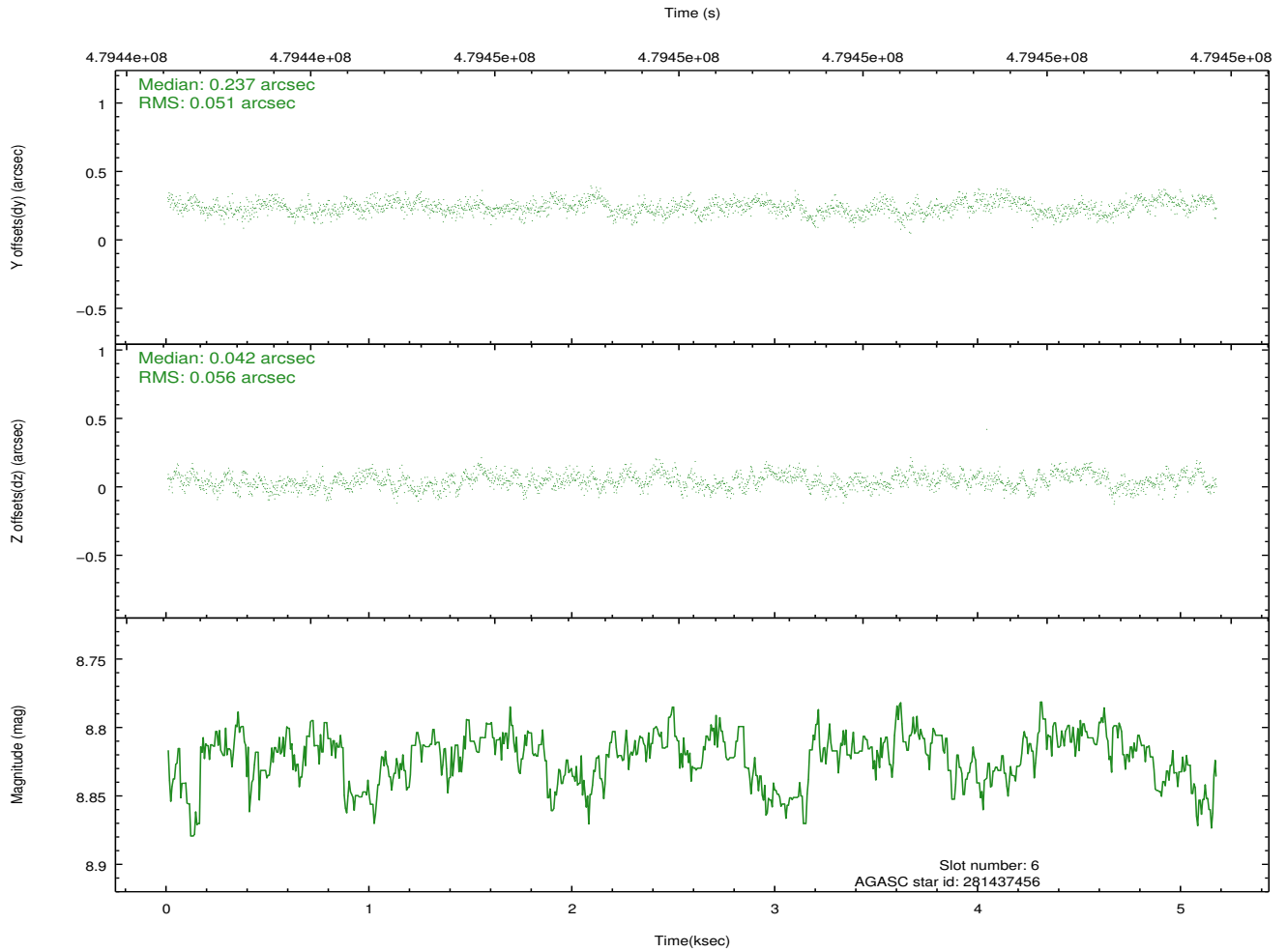
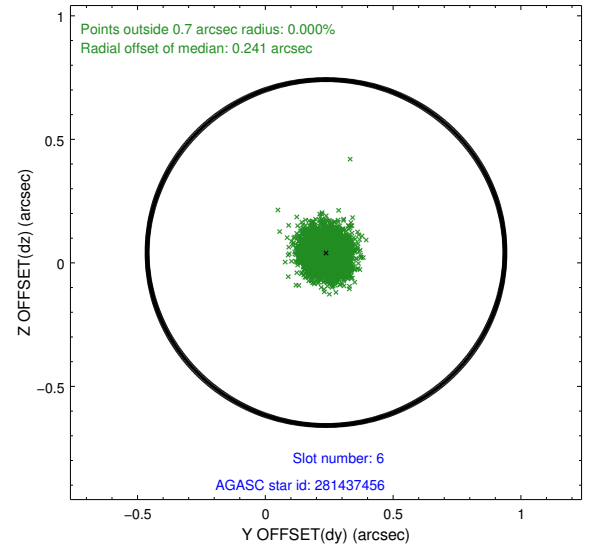
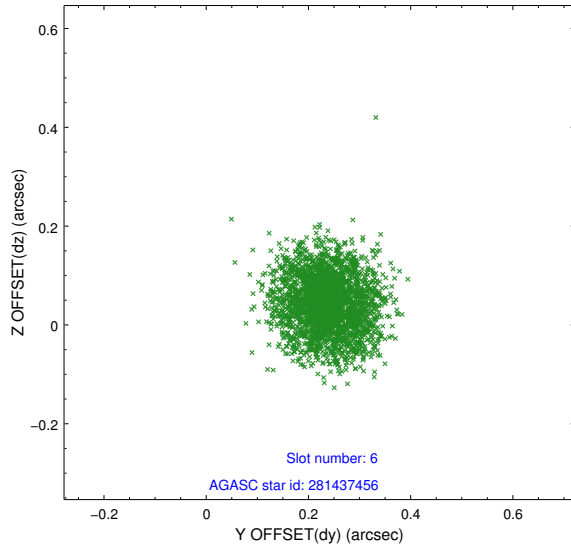
2.4.2 Slot 4



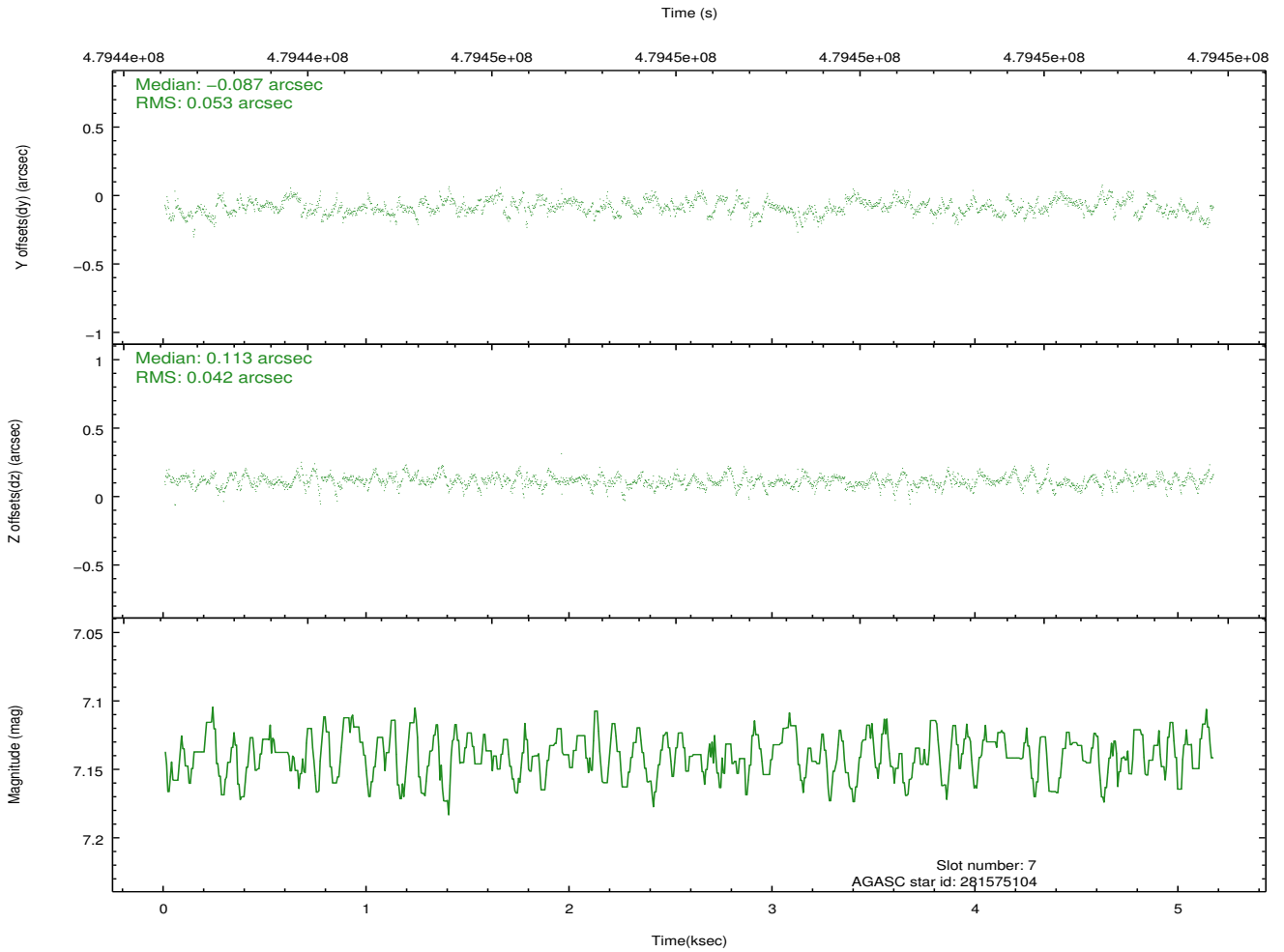
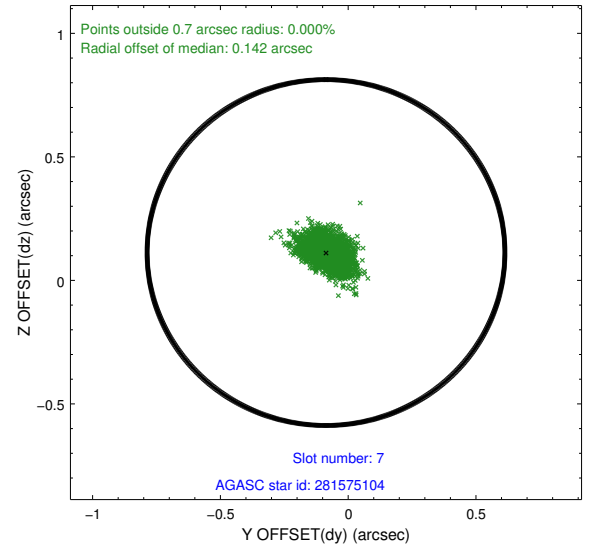
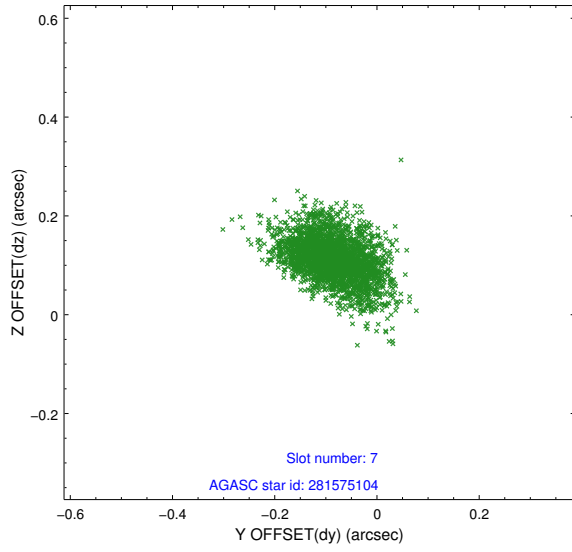
2.4.3 Slot 5



2.4.4 Slot 6

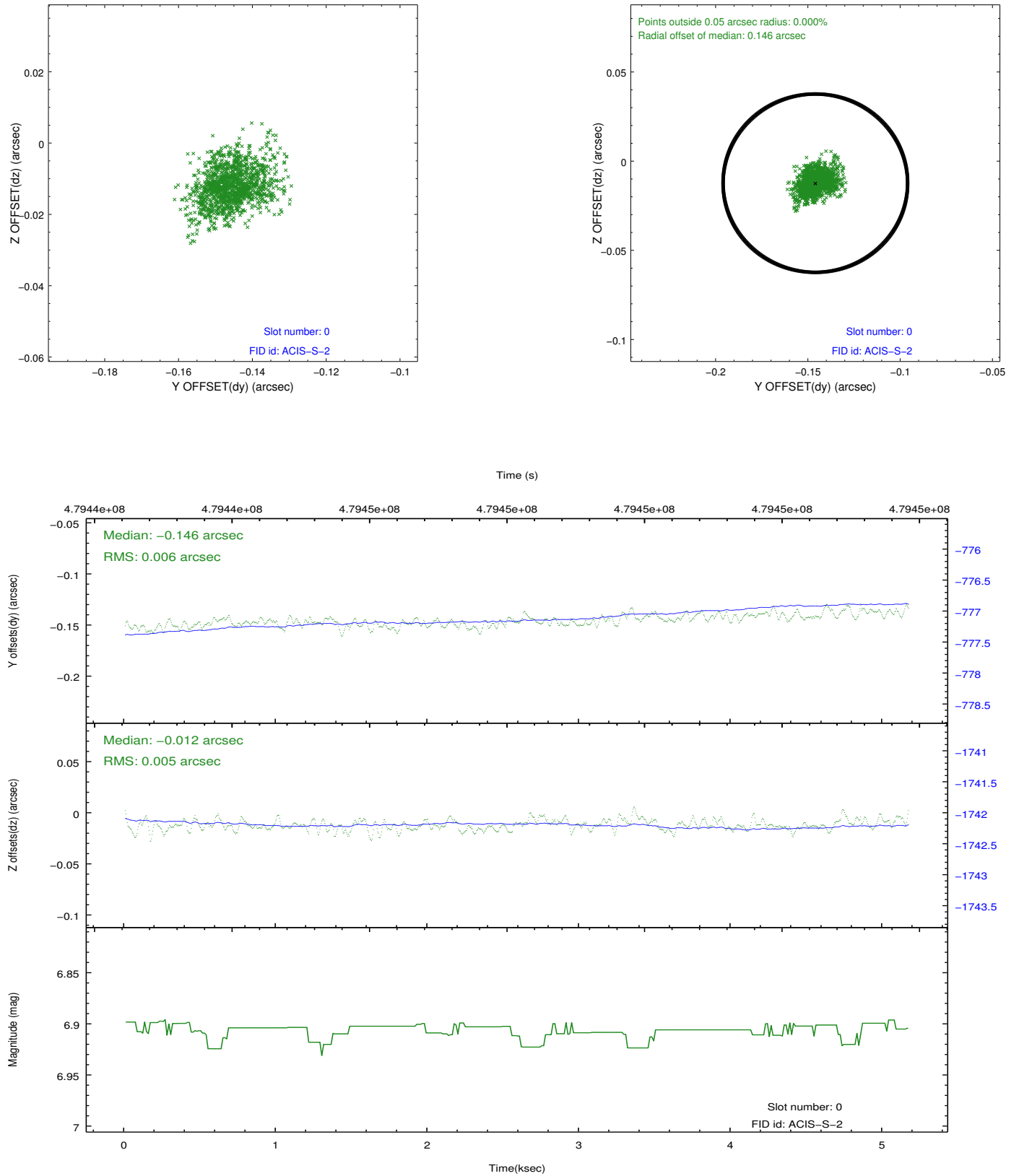


2.4.5 Slot 7

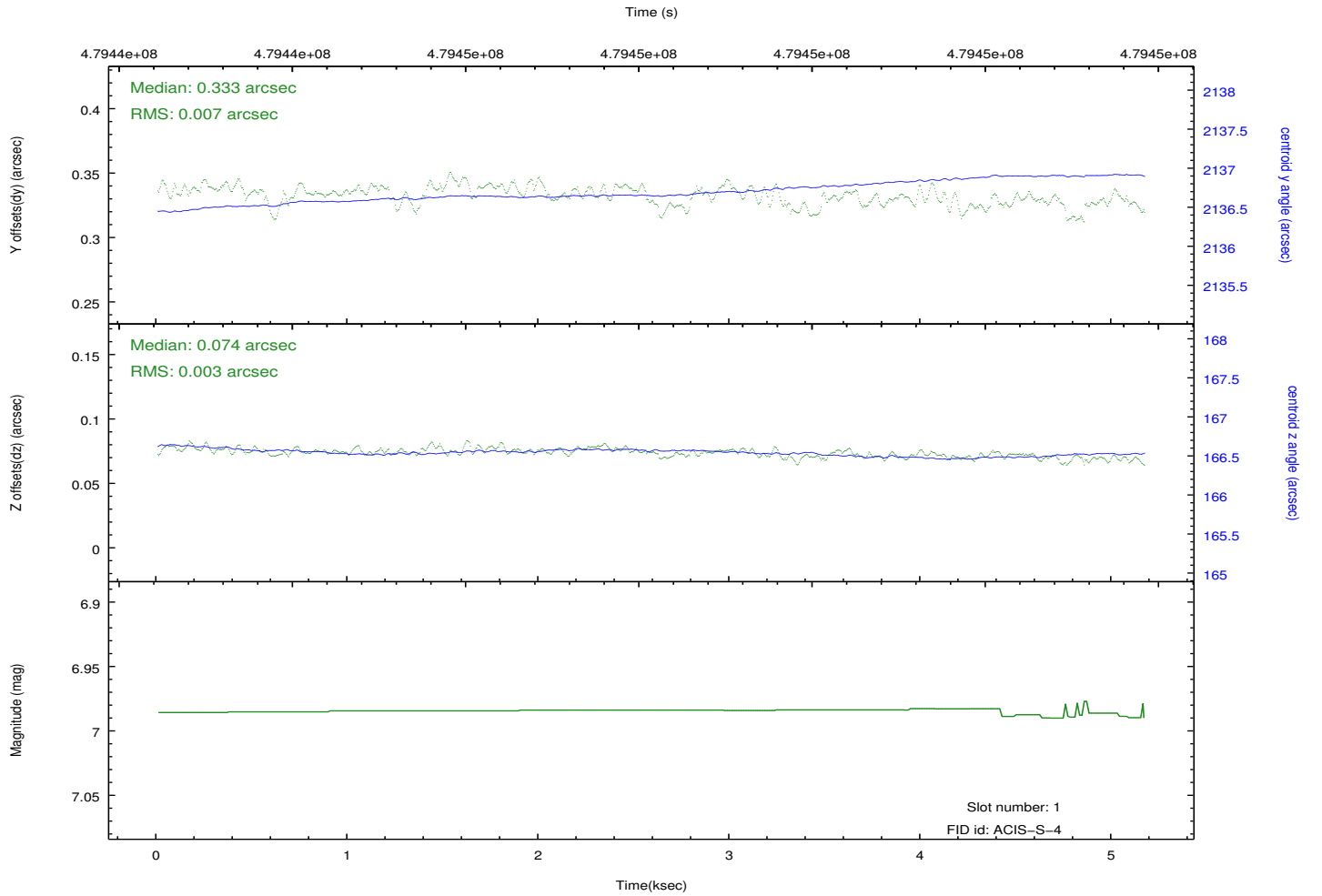
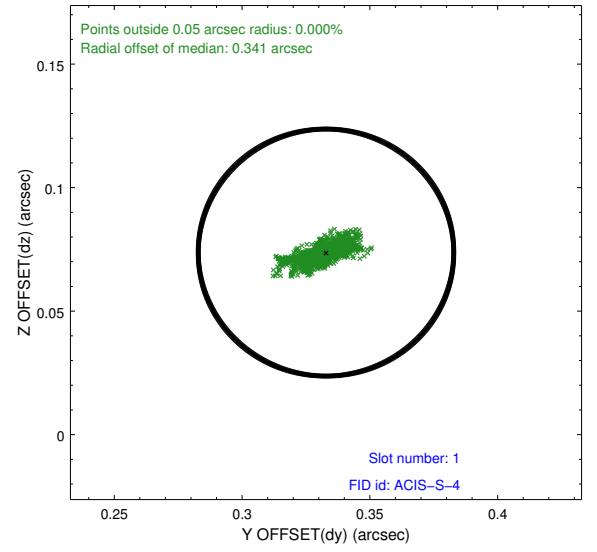
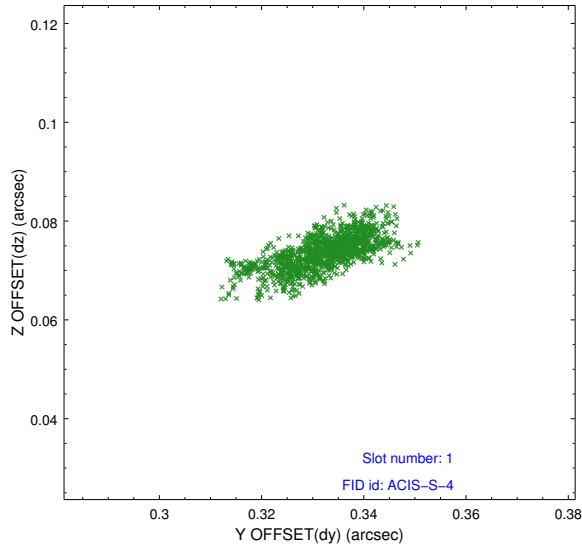


2.5 FID Slots

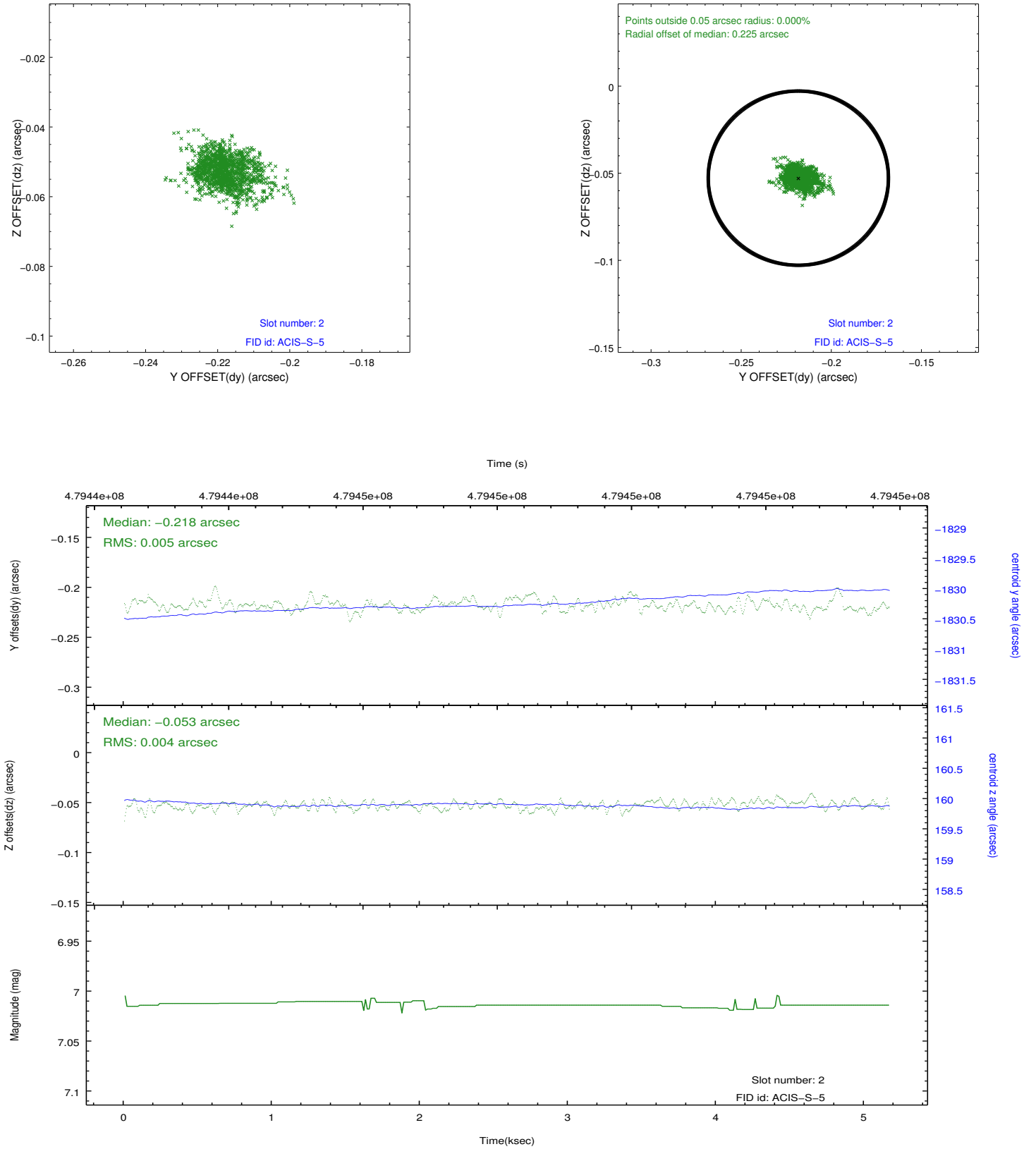
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0695996978283

A.2 Comments

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.