

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16214 - L2 Version 2
Chandra X-Ray Center

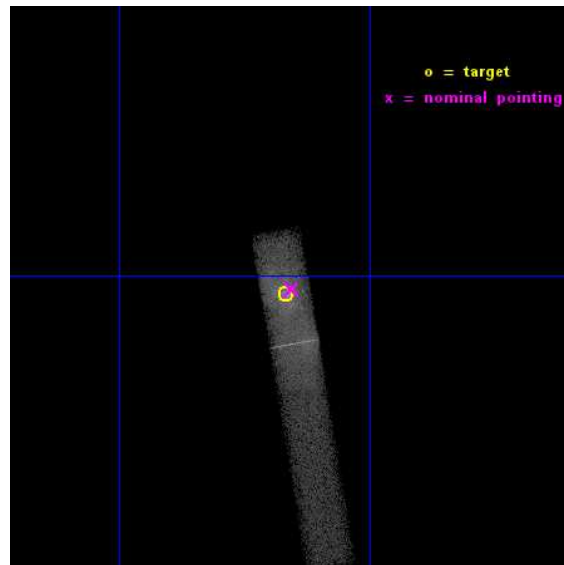
L2 Processing Date : Dec 11 2014

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1 Front

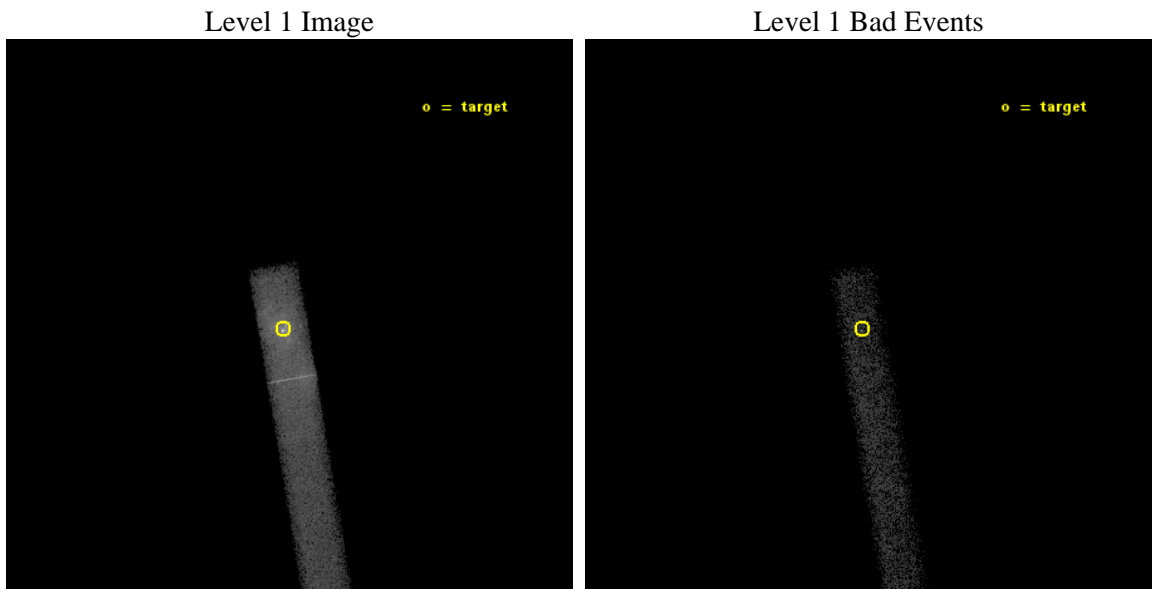
seq_num	601126	Sequence number
obs_id	16214	Observation id
title	Monitoring the Tidal Disruption of the Gas Cloud G2 As It Encounters Sgr A*	Proposal title
observer	Dr. Daryl Haggard	Principal investigator
object	Sgr A*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007806	Observer's specified target Dec [deg]
ra_nom	266.41410294159	Nominal RA [deg]
dec_nom	-29.00576632279	Nominal Dec [deg]
roll_nom	80.155386180896	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50068.640133142	Sum of GTIs [s]
livetime	45409.613761239	Livetime [s]
ontime7	50068.640133142	Sum of GTIs [s]
l2events	62693	Number of level 2 events



2 OBI

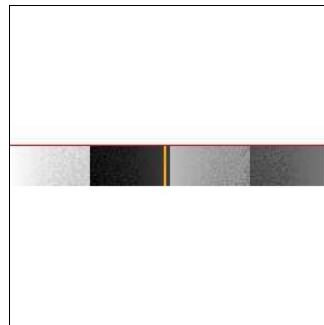
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	50068.640133142	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	50068.640133142	Sum of GTIs [s]
date	2014-12-11T23:10:10	Date and time of file creation	l1events	87161	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

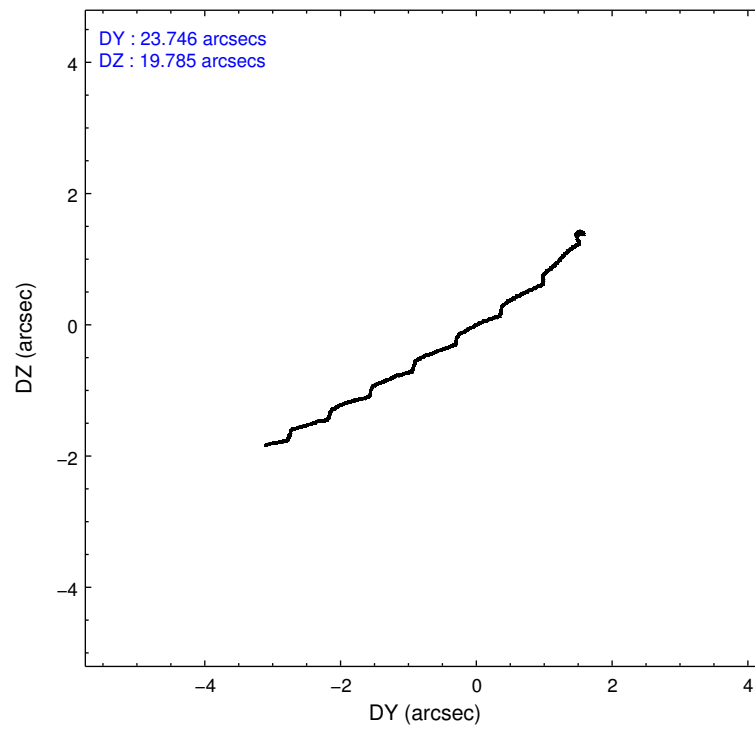
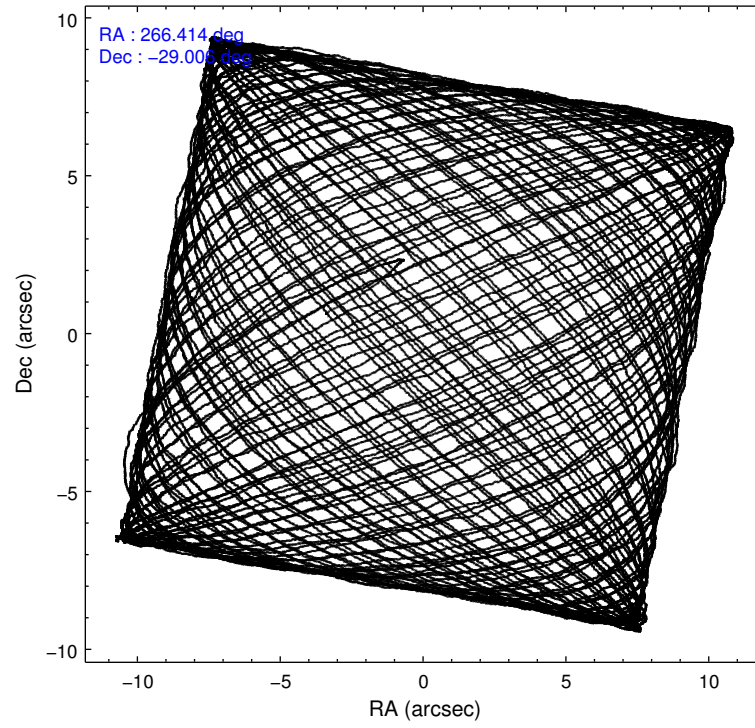
	ccd 7
level 1 events	87161
rejected events	23374
rejected %	26%

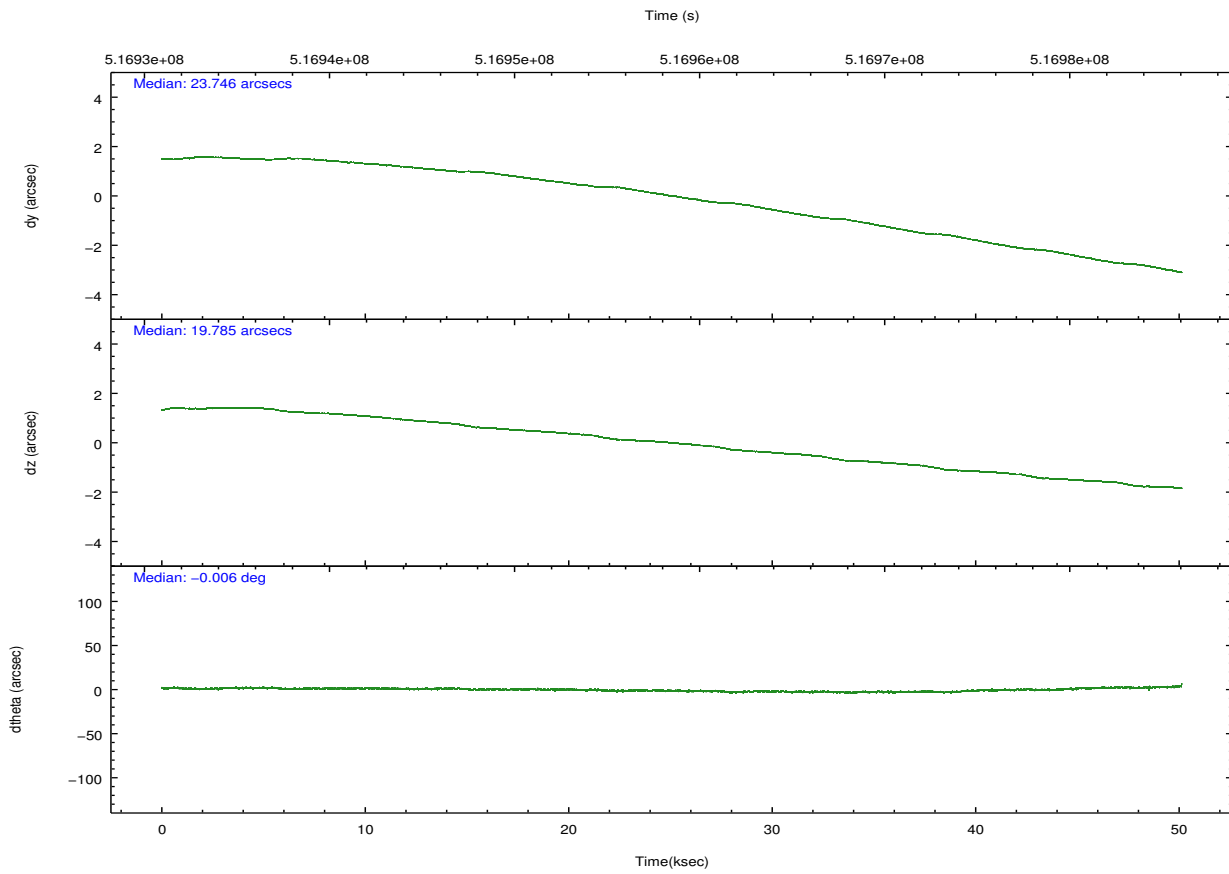
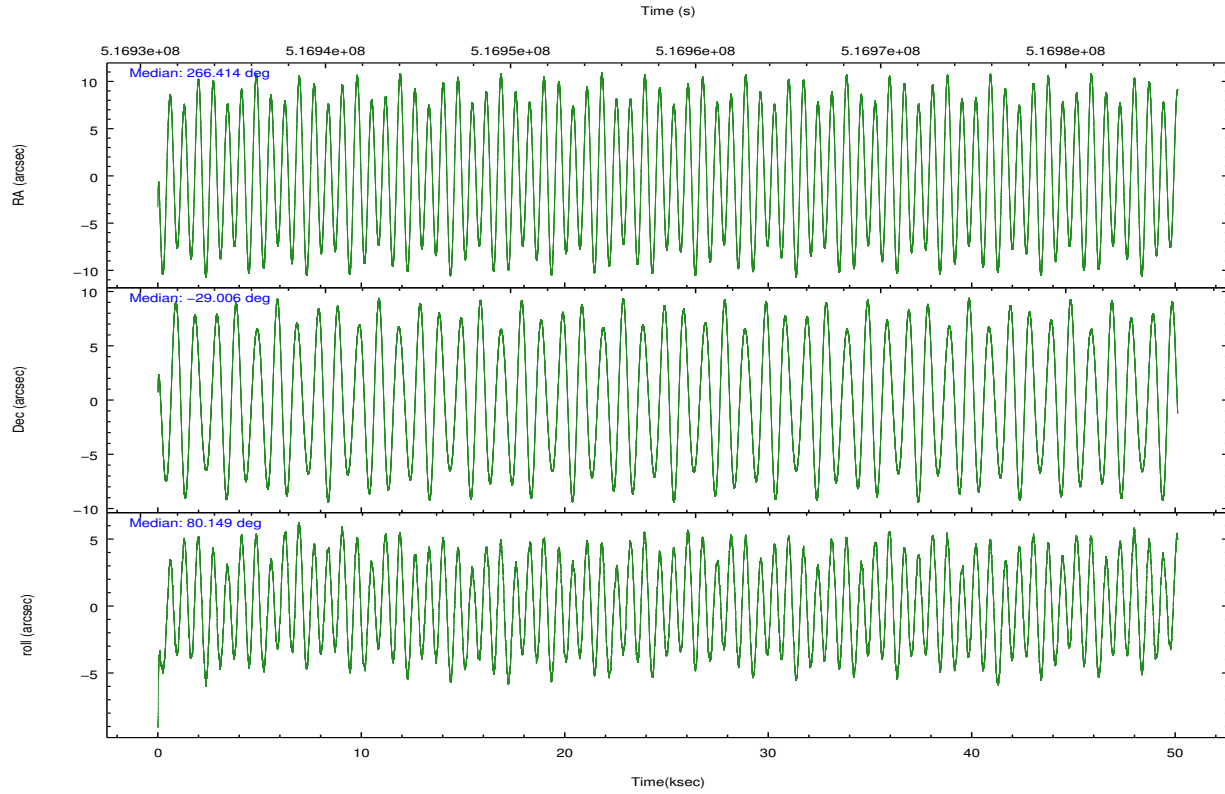
	ccd 7
grade 0 events	10692
	12%
grade 1 events	88
	0%
grade 2 events	14329
	16%
grade 3 events	7371
	8%
grade 4 events	7274
	8%
grade 5 events	4980
	5%
grade 6 events	24121
	27%
grade 7 events	18306
	21%

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	266.425284	266.4141029415911	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.031306	-29.00576632278981	Subarray start row	449	449
[deg] Pointing Roll	80.004188	80.15538618089634	Subarray row count	128	128
[s] Window start time (MET)	516934867.184000	516934867.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	516985267.184000	516985267.184000	[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)	516933564.184000	516932351.69317			
Observation start date	2014-05-20T00:38:17	2014-05-20T00:19:11			
[s] Observation end time (MET)	516983564.184000	516984558.02106			
Observation end date	2014-05-20T14:31:37	2014-05-20T14:49:18			
Read mode	TIMED	TIMED			

2.3 Aspect





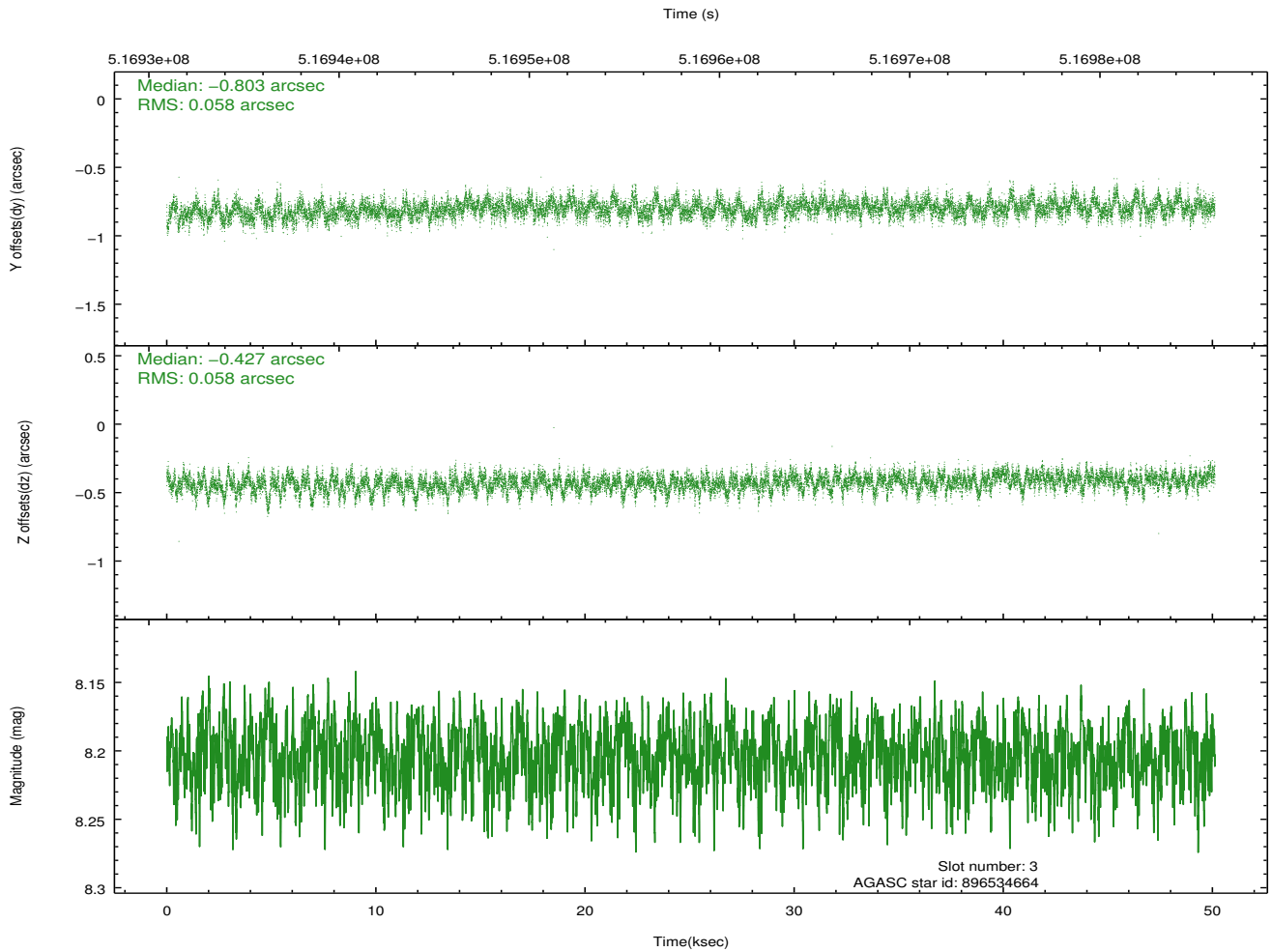
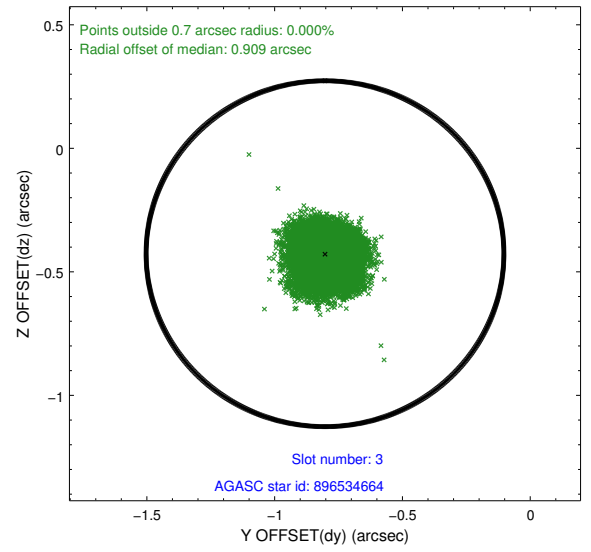
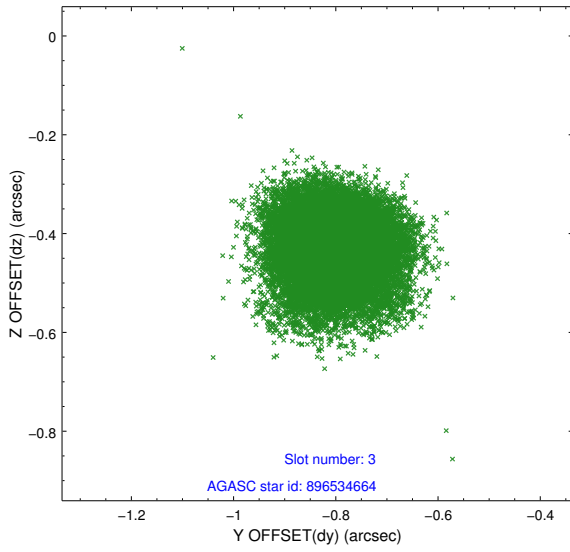
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.08	12225	0.068	-0.028	0.027	0.040	0.000000	0.000000	919.43	-1736.83
1	FID		ACIS-S-5	7.12	12224	-0.197	0.021	0.035	0.054	0.000000	0.000000	-1829.87	160.77
2	FID		ACIS-S-6	7.22	12224	0.111	0.015	0.056	0.072	0.000000	0.000000	385.00	804.73
3	GUIDE	used	896534664	8.20	24437	-0.803	-0.427	0.086	0.144	266.405570	-28.407461	2200.19	451.32
4	GUIDE	used	896541576	8.18	24435	0.138	0.175	0.090	0.142	267.051055	-28.762912	1289.78	-1777.54
5	GUIDE	used	896403224	8.28	24369	0.259	-0.348	0.097	0.163	265.612825	-29.438915	-1896.09	2251.72
6	GUIDE	used	896537776	7.53	24445	0.396	0.376	0.080	0.126	266.655684	-29.665673	-2124.09	-1105.95
7	GUIDE	used	896538208	7.98	24448	0.009	0.213	0.164	0.248	267.176969	-28.671626	1680.24	-2114.27

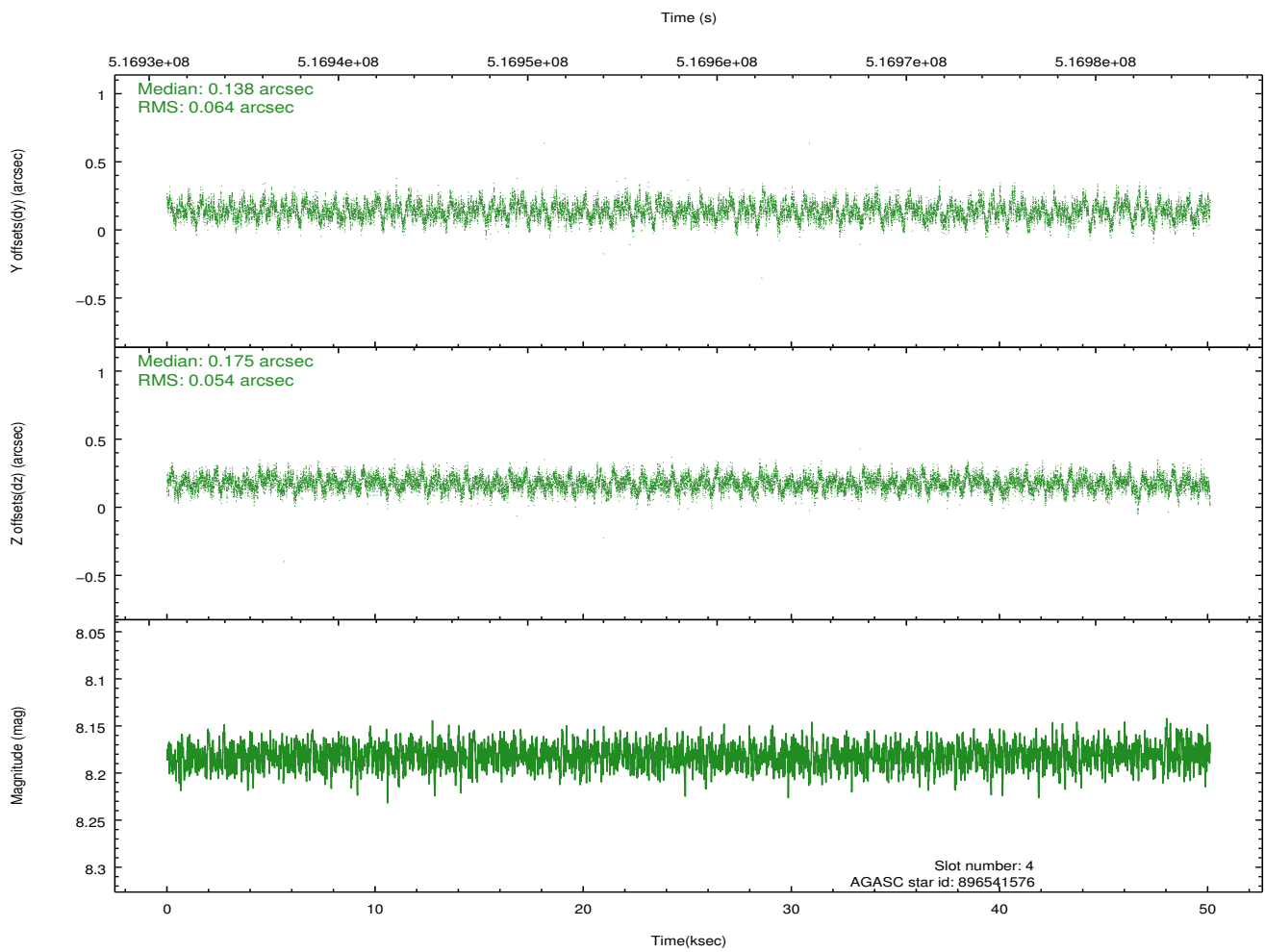
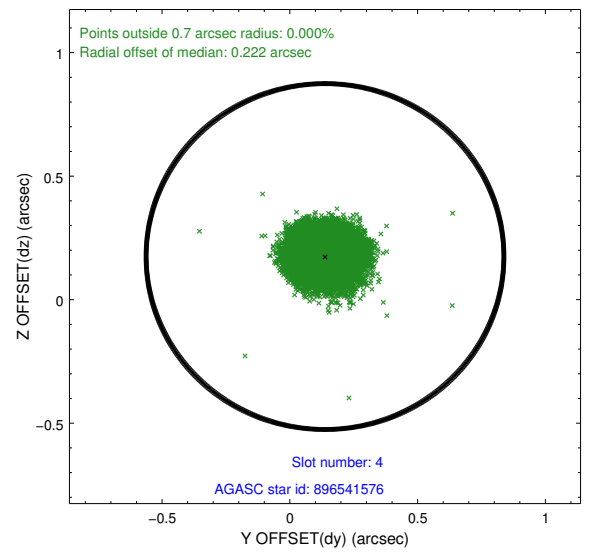
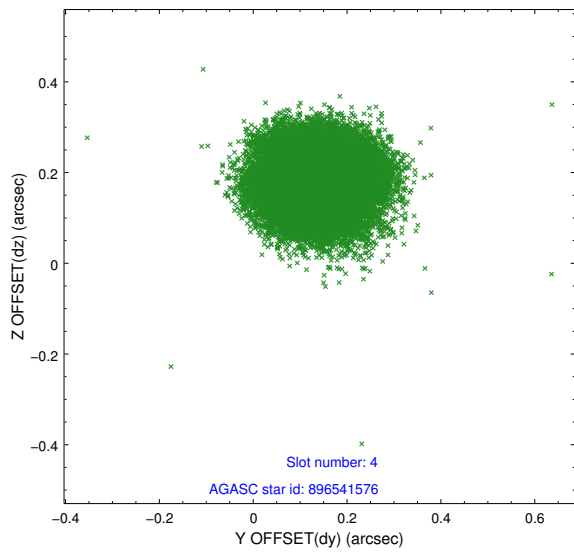
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2.4 Star Slots

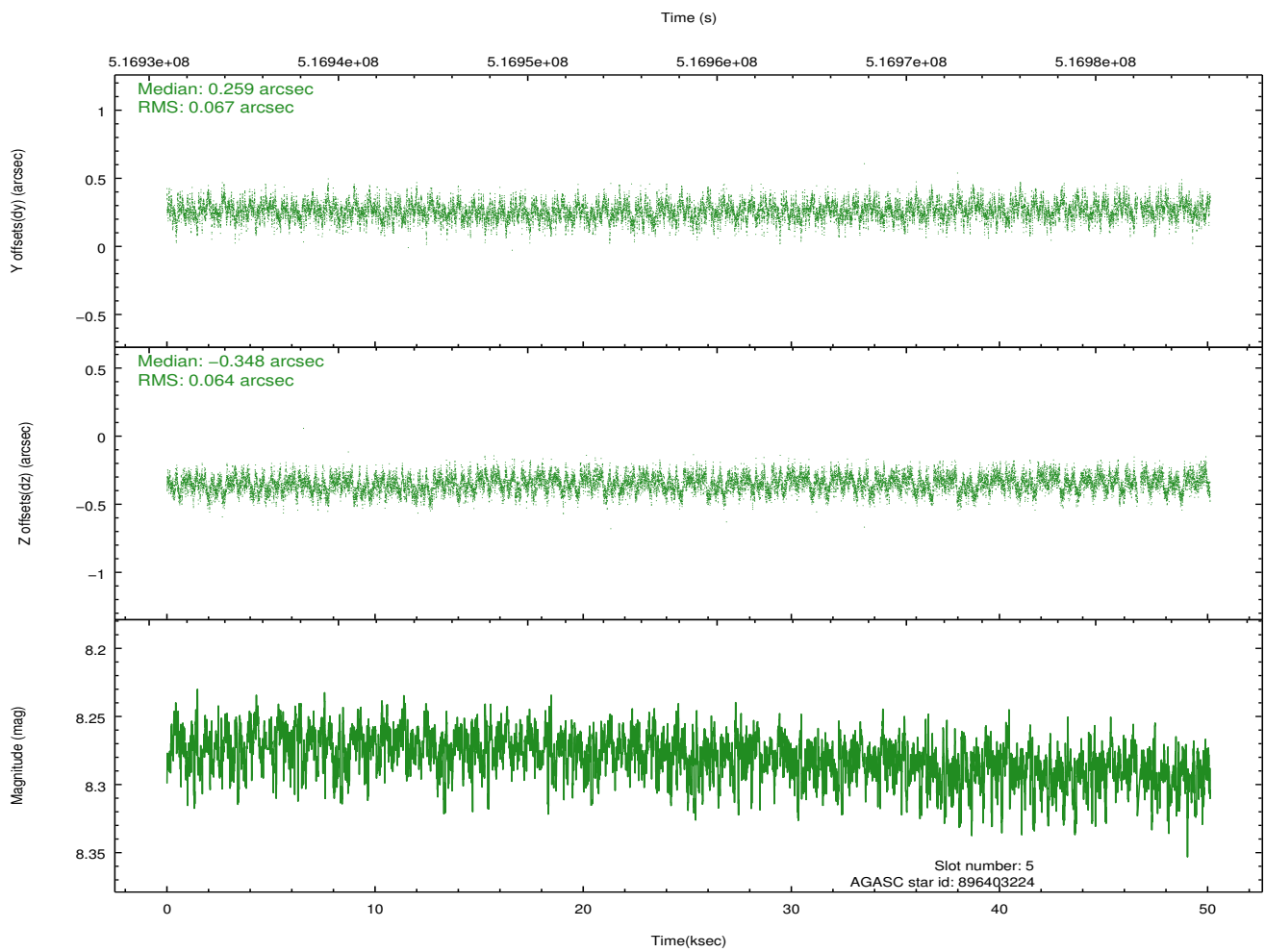
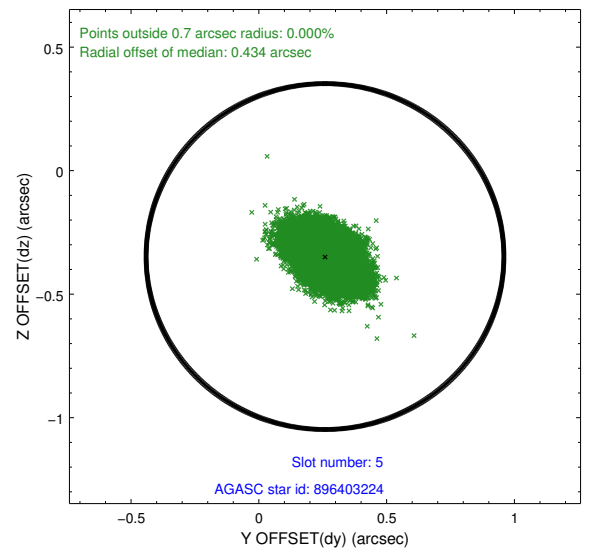
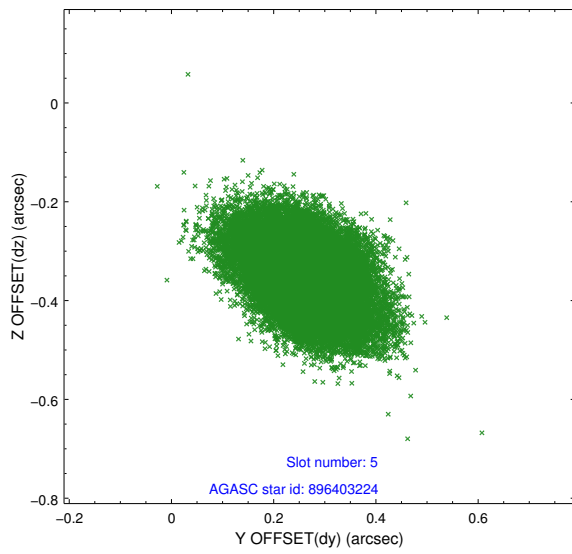
2.4.1 Slot 3



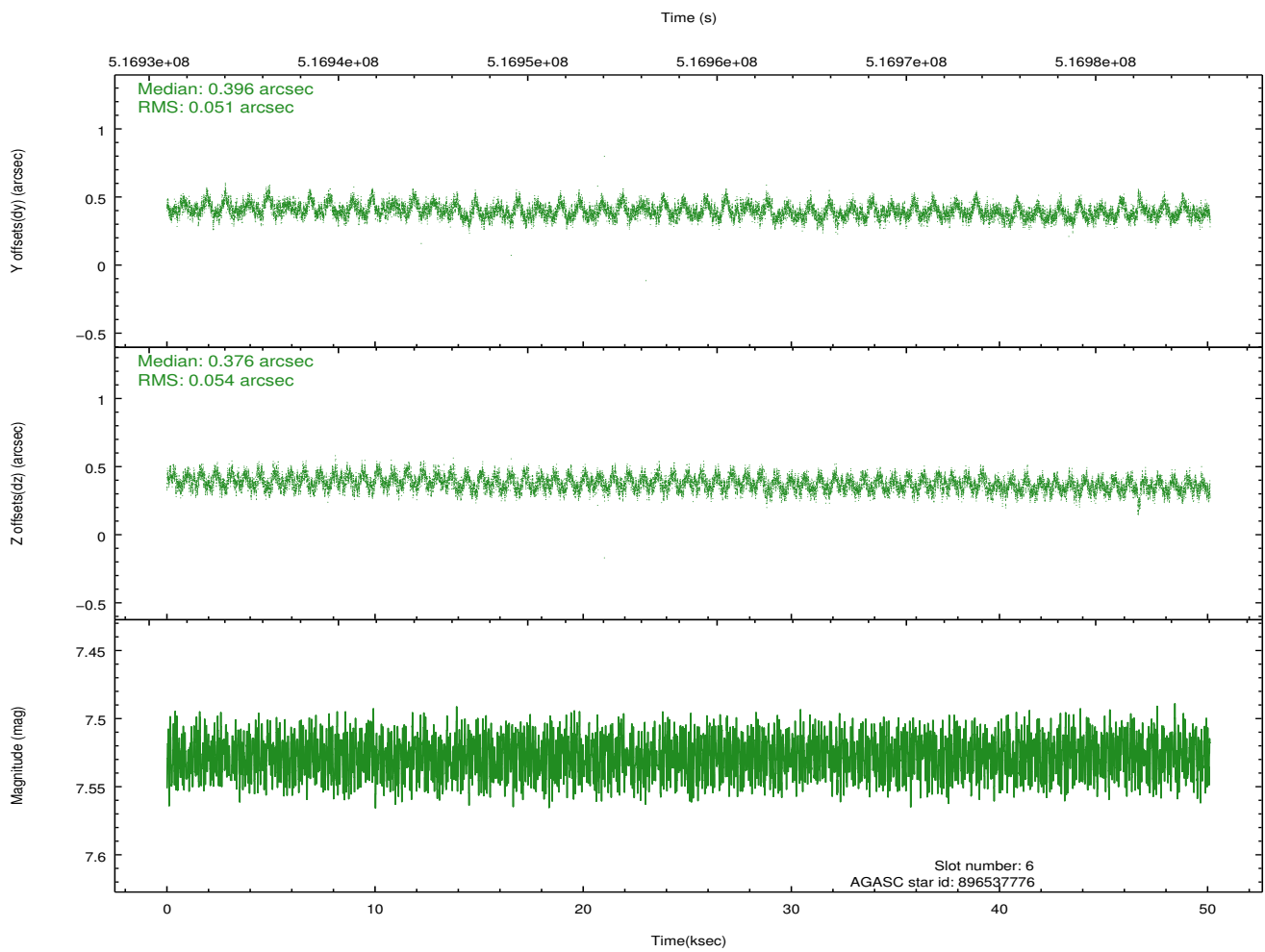
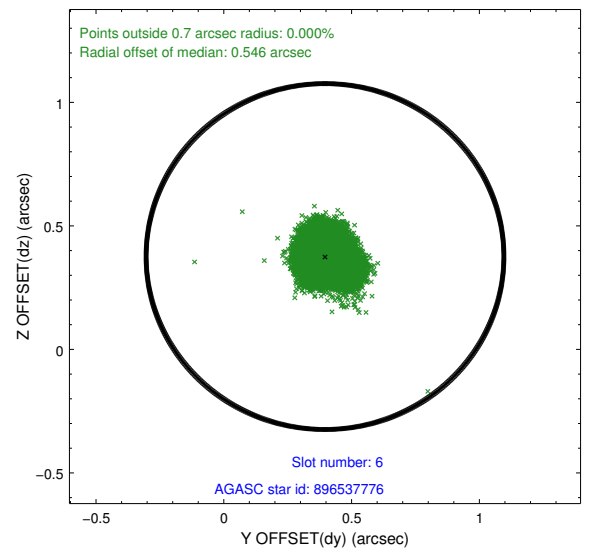
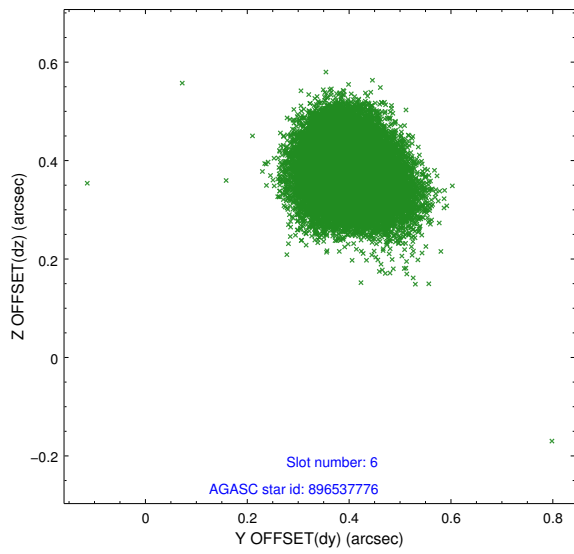
2.4.2 Slot 4



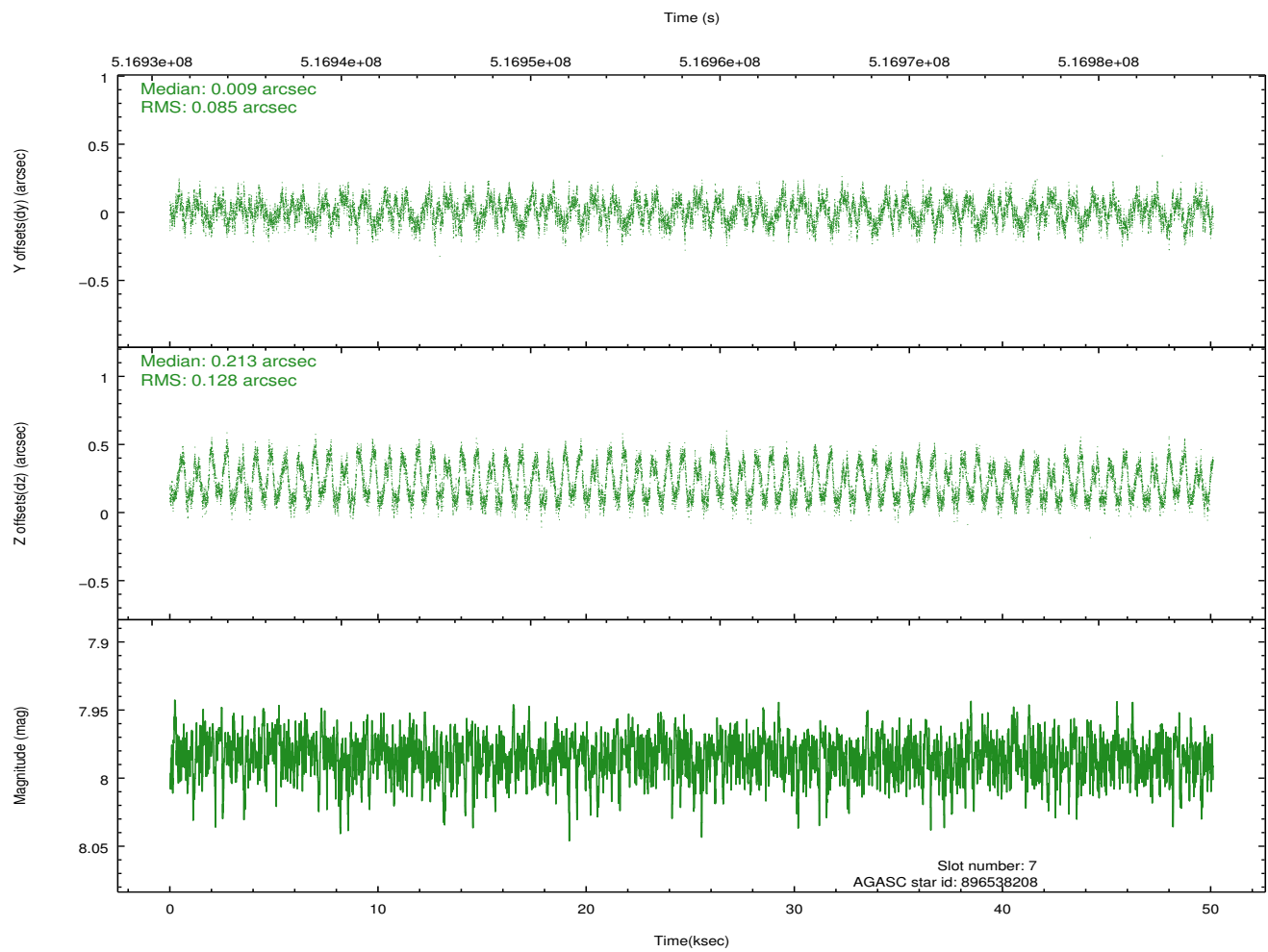
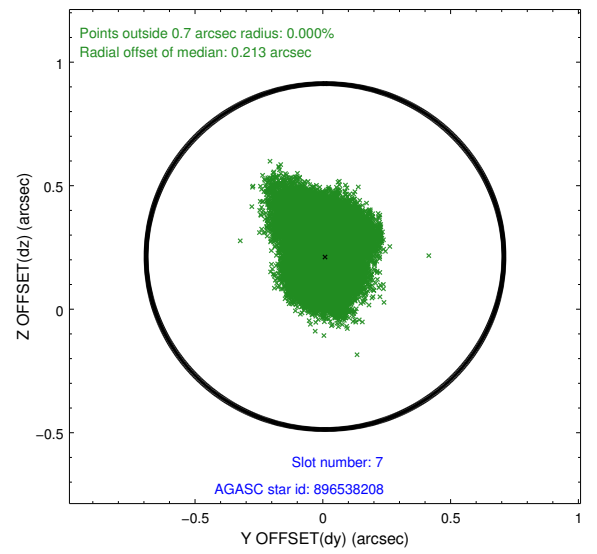
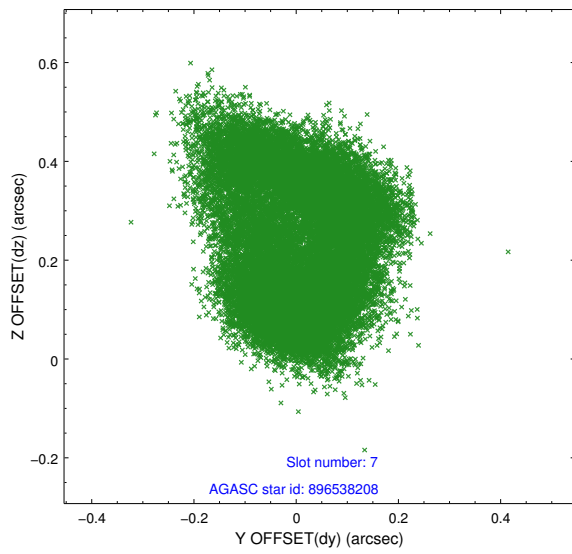
2.4.3 Slot 5



2.4.4 Slot 6

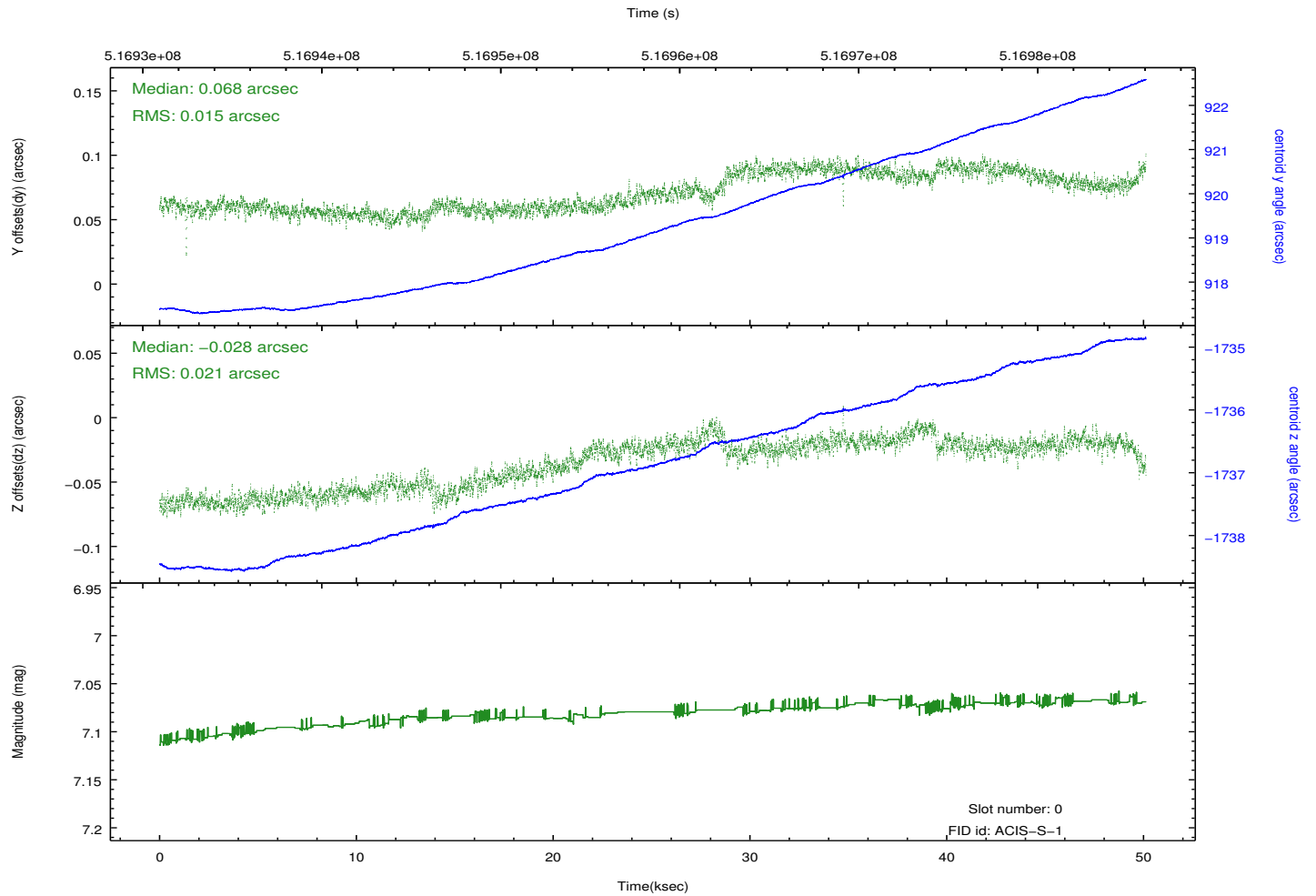
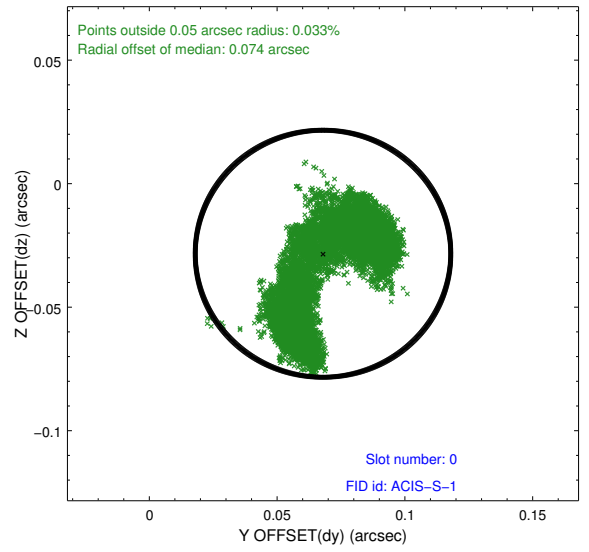
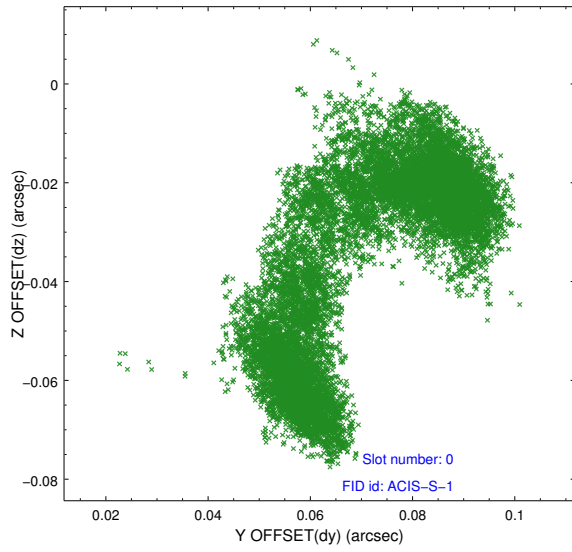


2.4.5 Slot 7

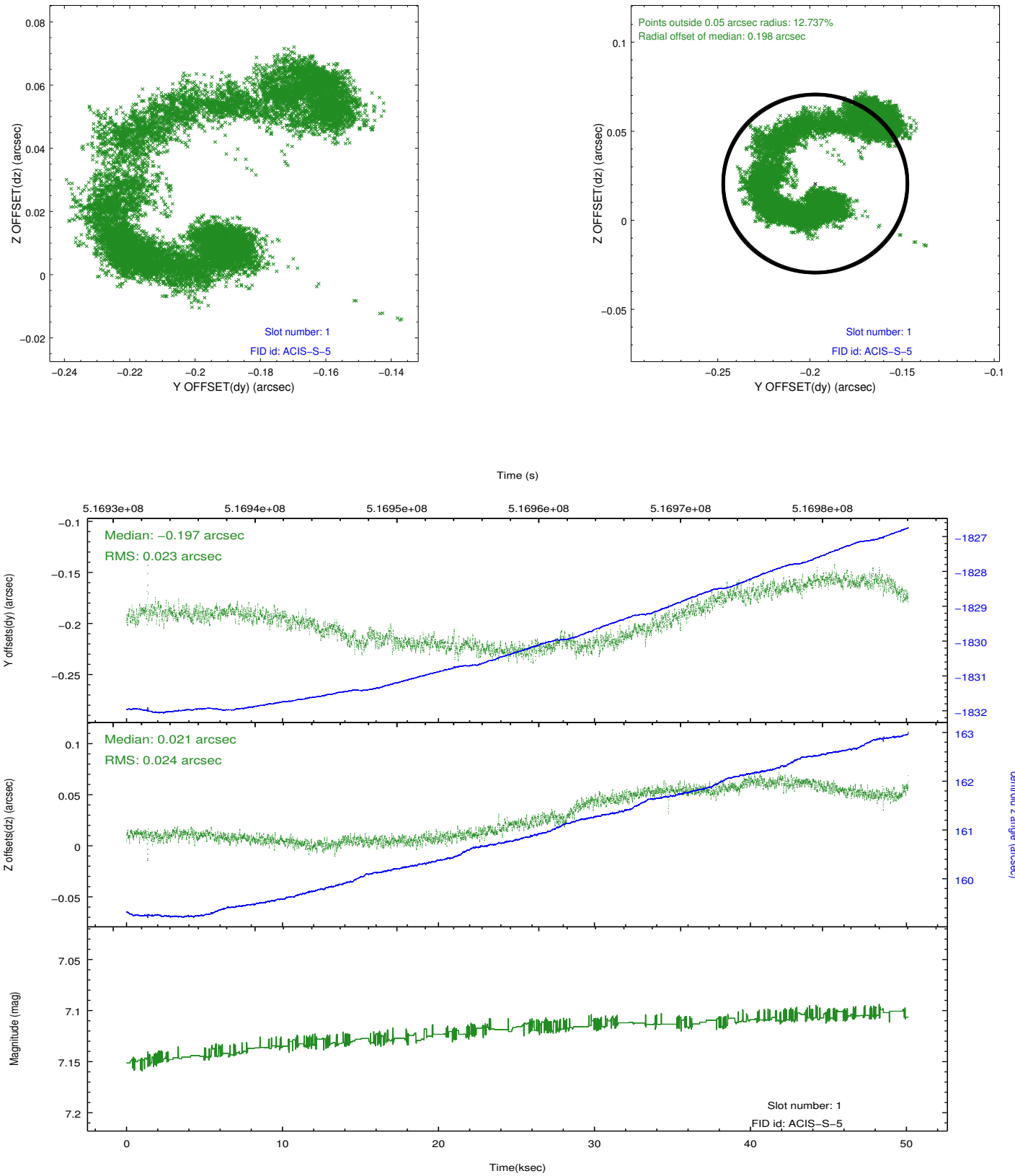


2.5 FID Slots

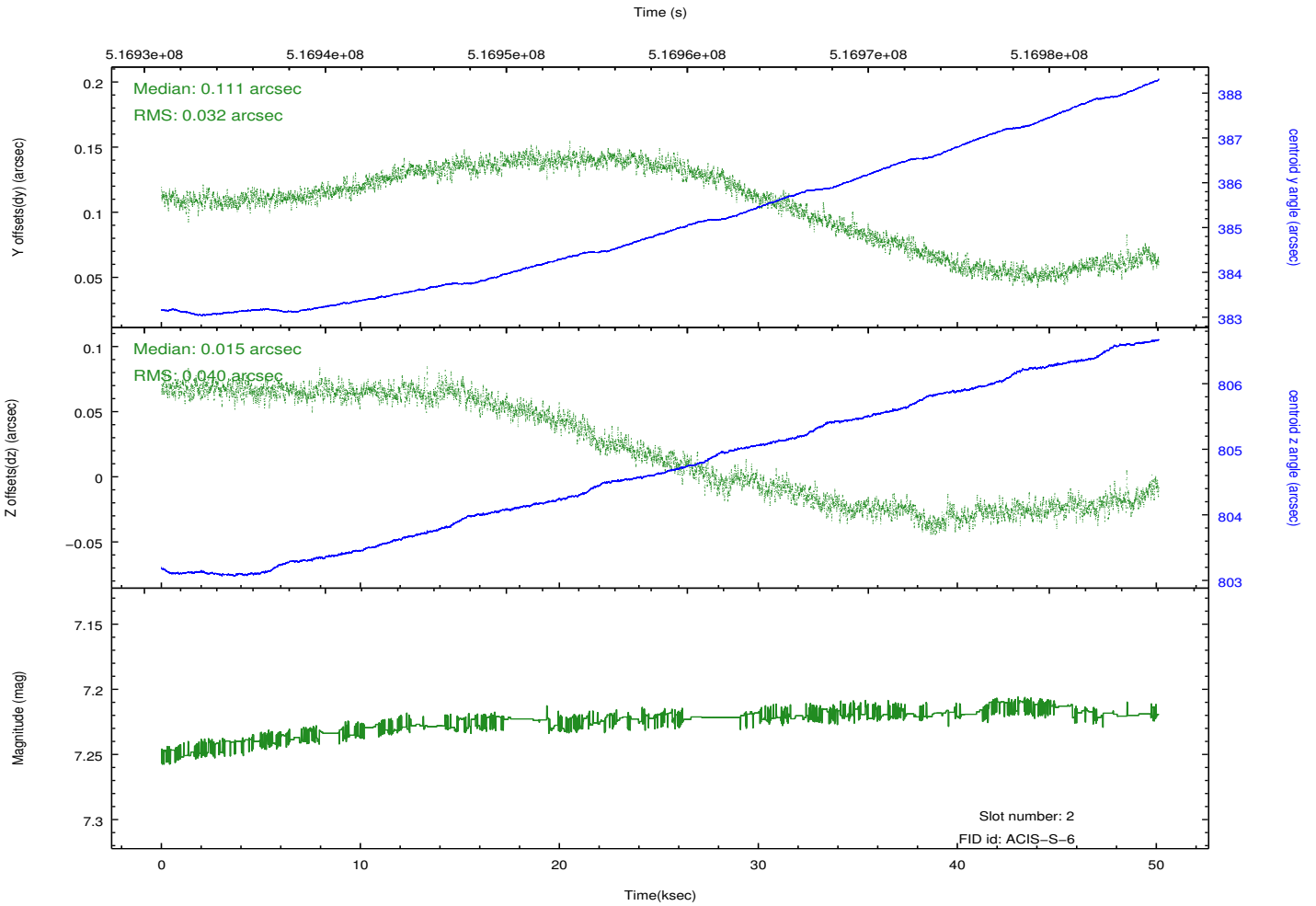
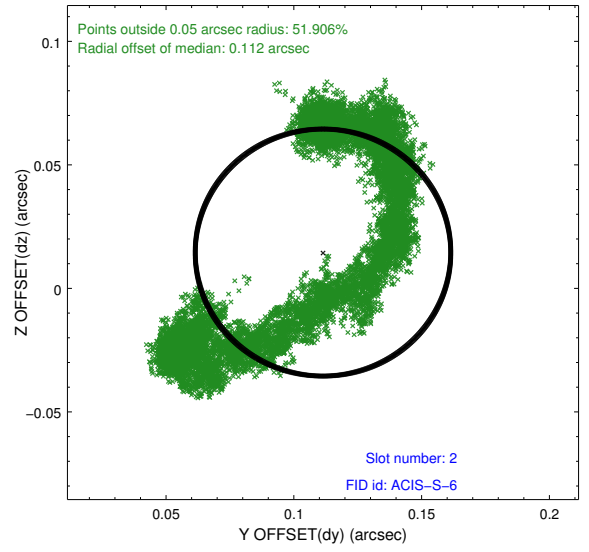
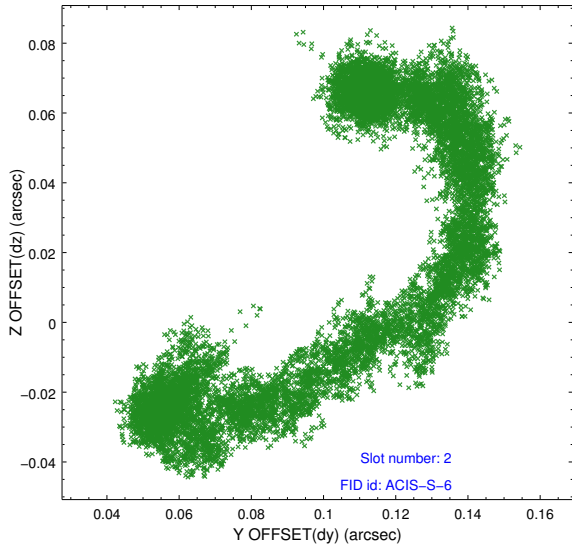
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.068640133142

A.2 Comments

Joint Proposal with NRAO. Roll preference met.

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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.