

V&V Reference Report

L2 ASCDS Version : 10

Observation 15142 - L2 Version 2
Chandra X-Ray Center

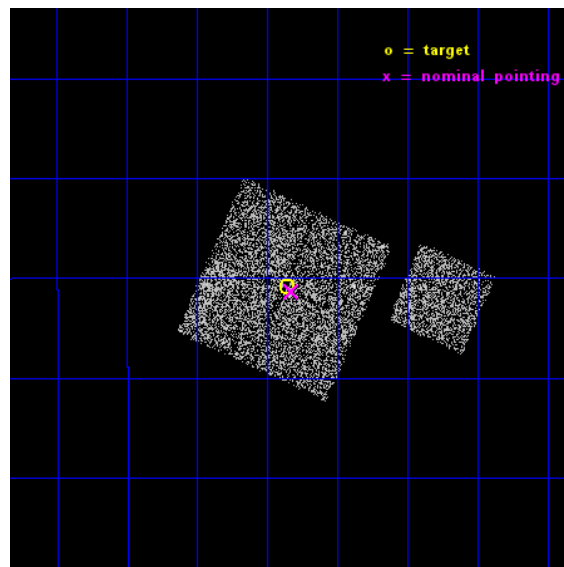
L2 Processing Date : Dec 3 2014

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1 Front

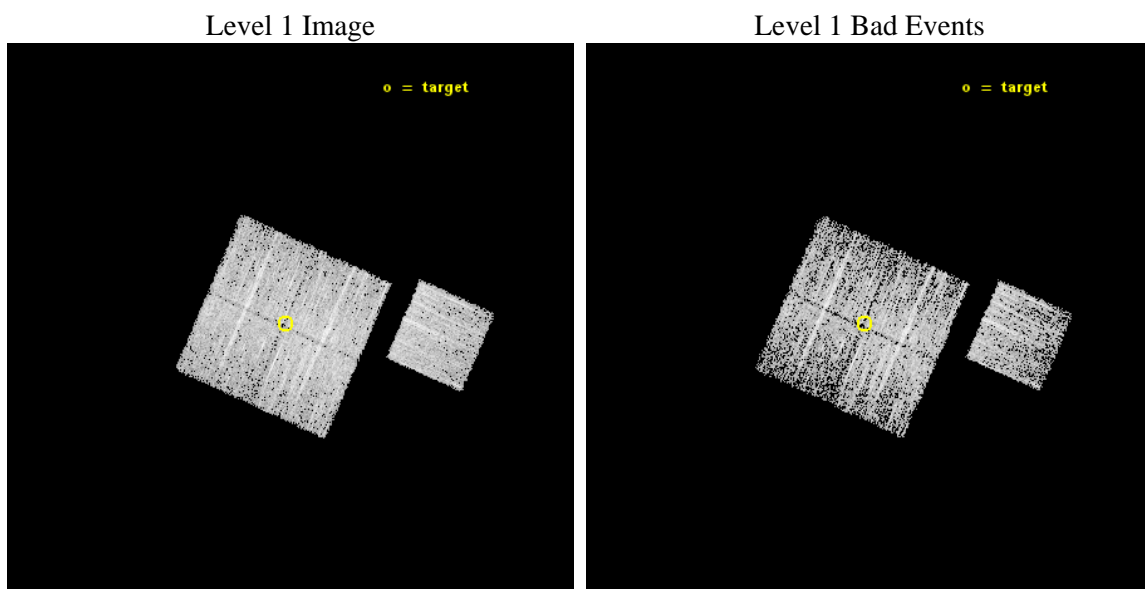
seq_num	801271	Sequence number
obs_id	15142	Observation id
title	TO THE OUTER LIMITS OF CLUSTERS WITH CHANDRA AND SUZAKU	Proposal t
observer	Dr. Eric Miller	Principal investigator
object	A2597	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	351.090792	Observer's specified target RA [deg]
dec_targ	-12.015539	Observer's specified target Dec [deg]
ra_nom	351.08203530717	Nominal RA [deg]
dec_nom	-12.022298613433	Nominal Dec [deg]
roll_nom	113.97420145892	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5083.3751613498	Sum of GTIs [s]
livetime	5016.9571225404	Livetime [s]
ontime0	5083.3341213465	Sum of GTIs [s]
ontime1	5083.3751613498	Sum of GTIs [s]
ontime2	5083.4162013531	Sum of GTIs [s]
ontime3	5083.4572413564	Sum of GTIs [s]
ontime6	5083.2930813432	Sum of GTIs [s]
l2events	12236	Number of level 2 events



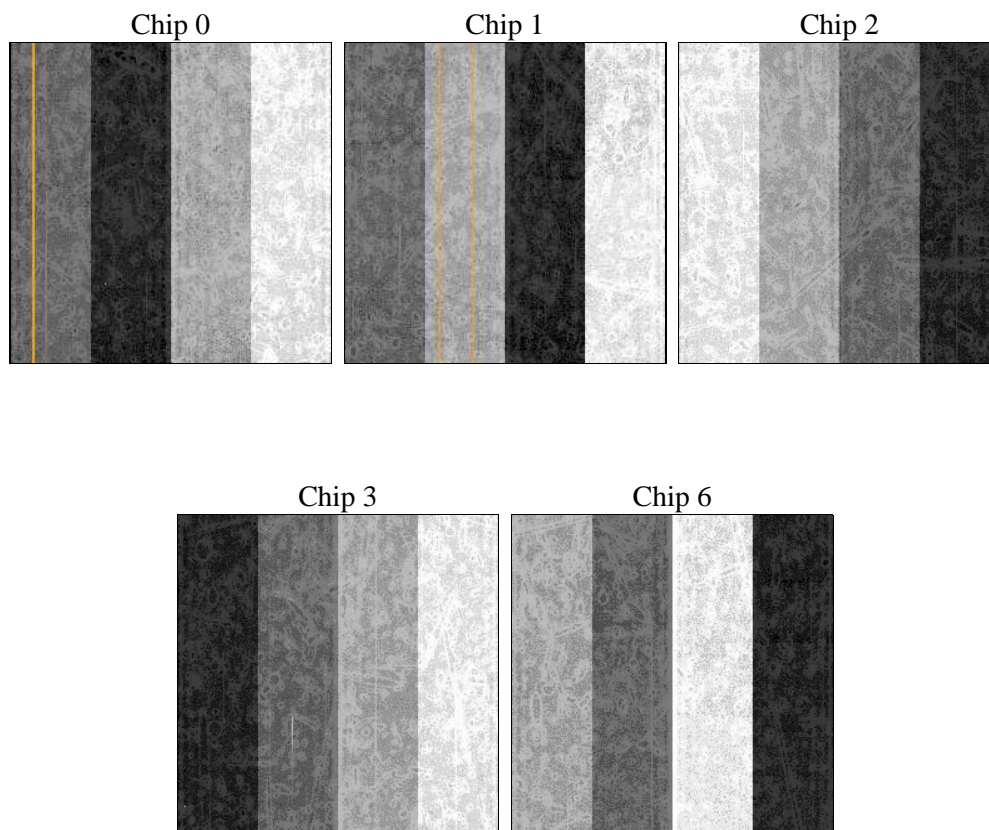
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5083.3751613498	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	5083.3341213465	Sum of GTIs [s]
date	2014-12-03T12:00:30	Date and time of file creation	ontime1	5083.3751613498	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5083.4162013531	Sum of GTIs [s]
			ontime3	5083.4572413564	Sum of GTIs [s]
			ontime6	5083.2930813432	Sum of GTIs [s]
			l1events	115453	Number of level 1 events

2.1.4 Events

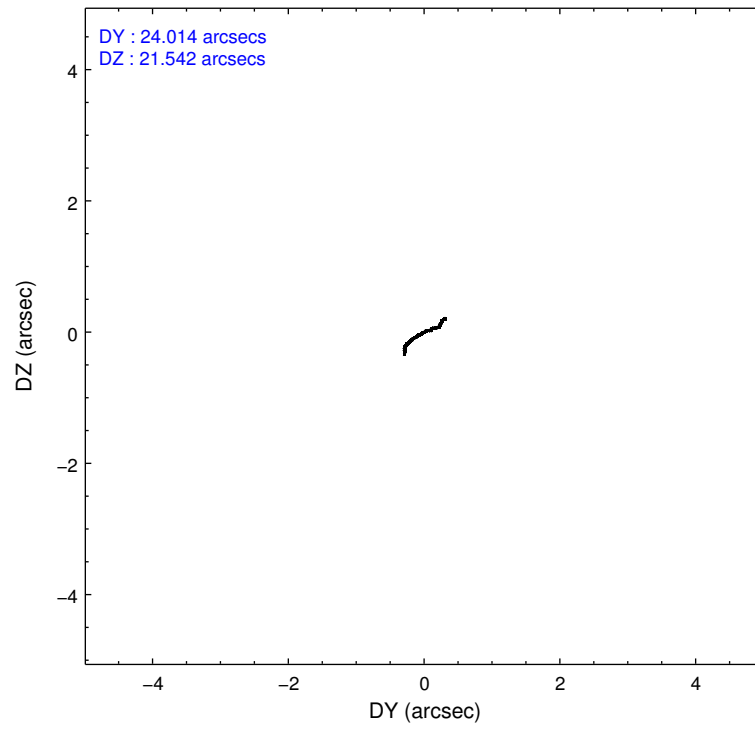
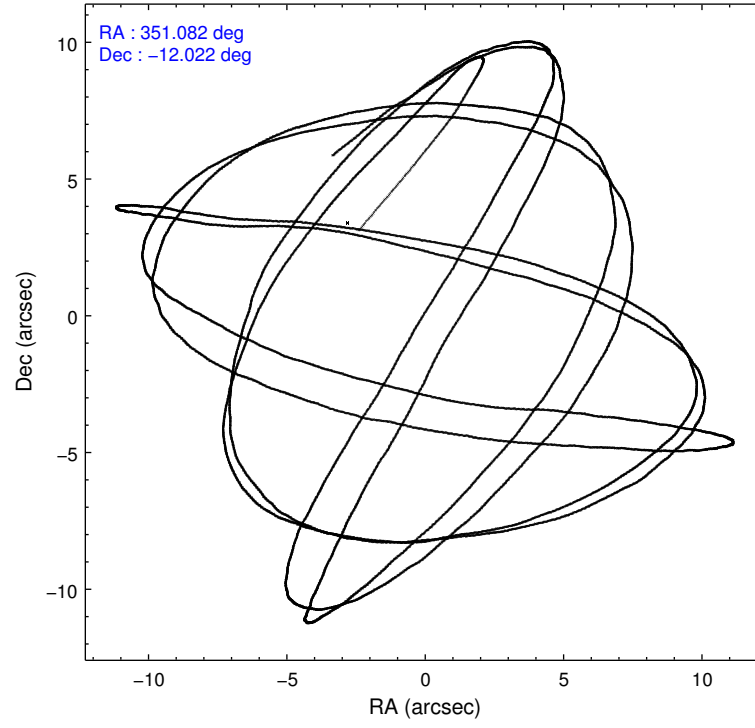
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	22334	20295	25236	23850	23738
rejected events	19521	16973	22407	21205	20896
rejected %	87%	83%	88%	88%	88%

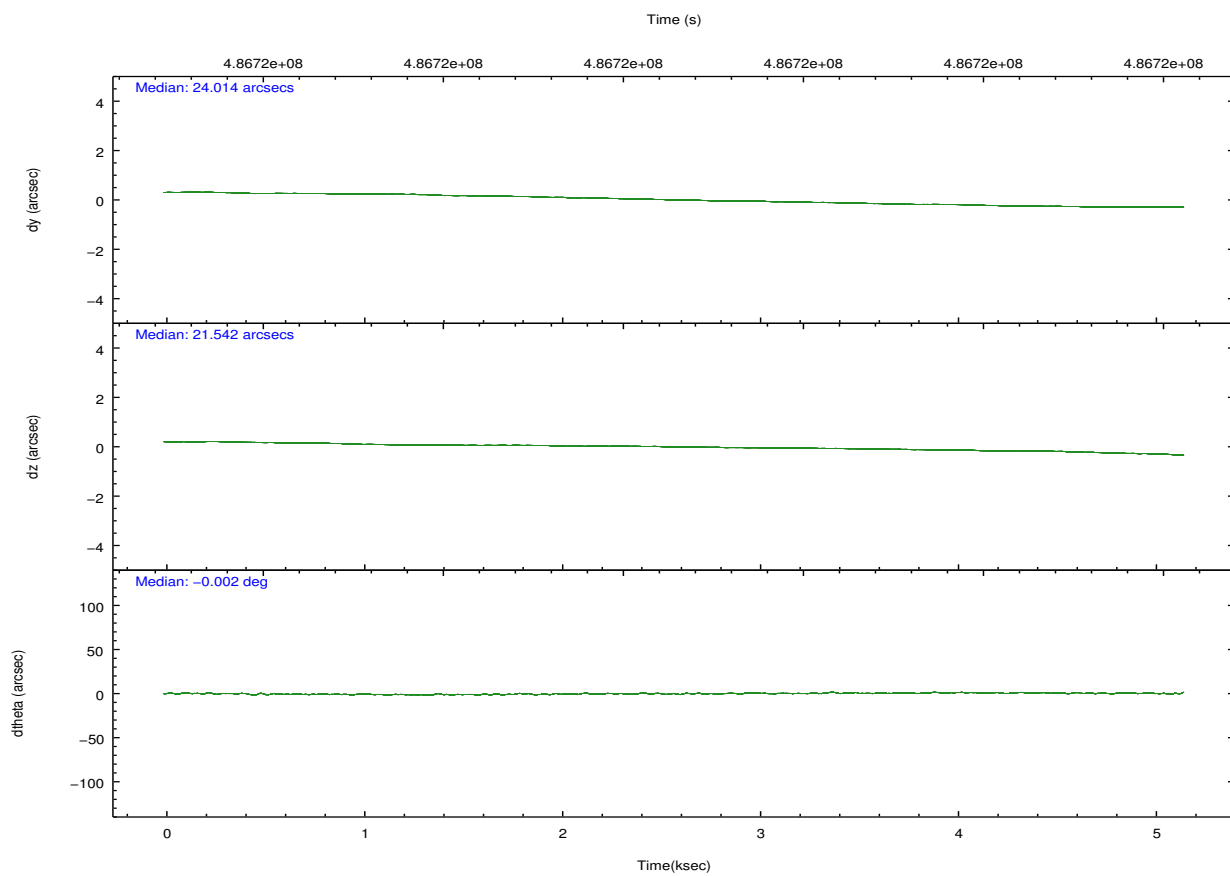
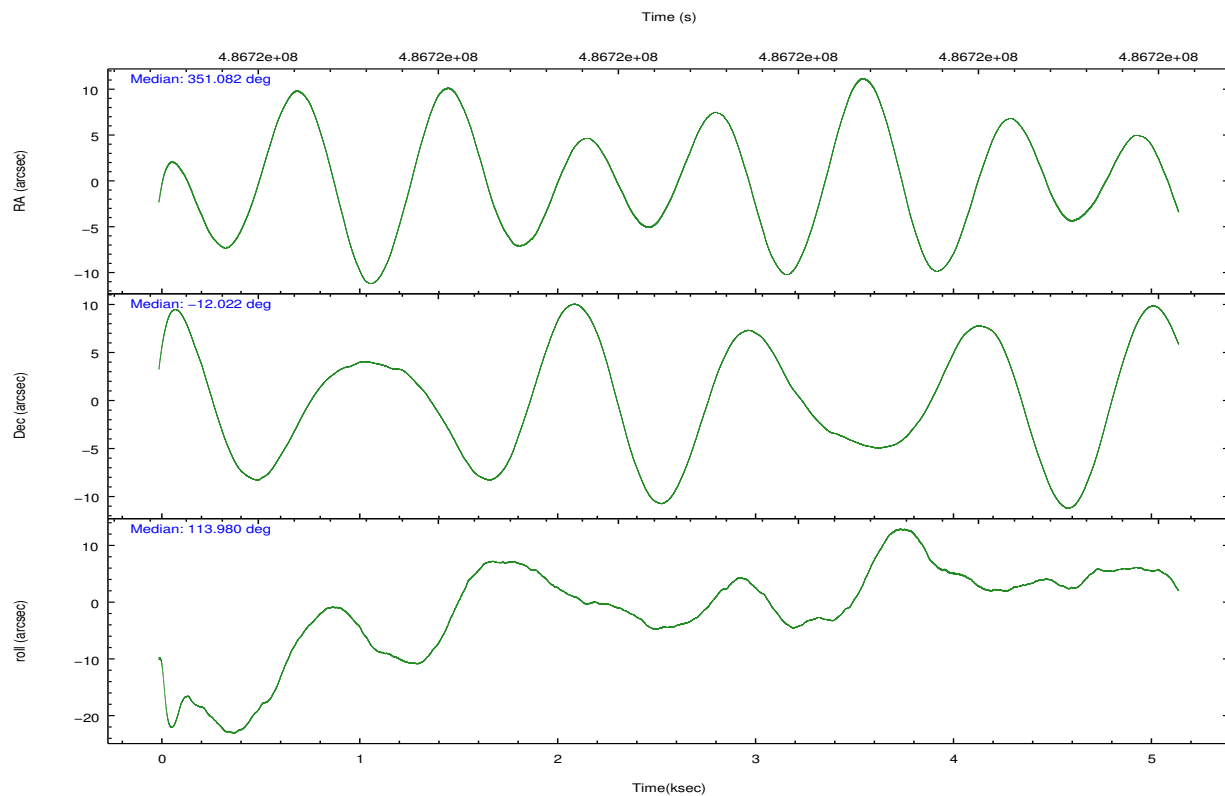
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	958	1215	1030	934	948
	4%	5%	4%	3%	3%
grade 1 events	5	10	22	13	12
	0%	0%	0%	0%	0%
grade 2 events	711	784	733	585	641
	3%	3%	2%	2%	2%
grade 3 events	293	313	273	298	312
	1%	1%	1%	1%	1%
grade 4 events	296	306	267	287	295
	1%	1%	1%	1%	1%
grade 5 events	1164	1188	1042	1269	1246
	5%	5%	4%	5%	5%
grade 6 events	563	710	530	542	649
	2%	3%	2%	2%	2%
grade 7 events	18344	15769	21339	19922	19635
	82%	77%	84%	83%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	351.104832	351.082035307173	CCD I2 on	Y	Y
[deg] Pointing Dec	-12.038446	-12.02229861343289	CCD I3 on	Y	Y
[deg] Pointing Roll	113.770226	113.9742014589232	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	486716842.184000	486715879.44977	CCD S5 on	N	N
Observation start date	2013-06-04T07:06:15	2013-06-04T06:51:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	486721842.184000	486722716.71264	On-chip summing requested	N	N
Observation end date	2013-06-04T08:29:35	2013-06-04T08:45:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



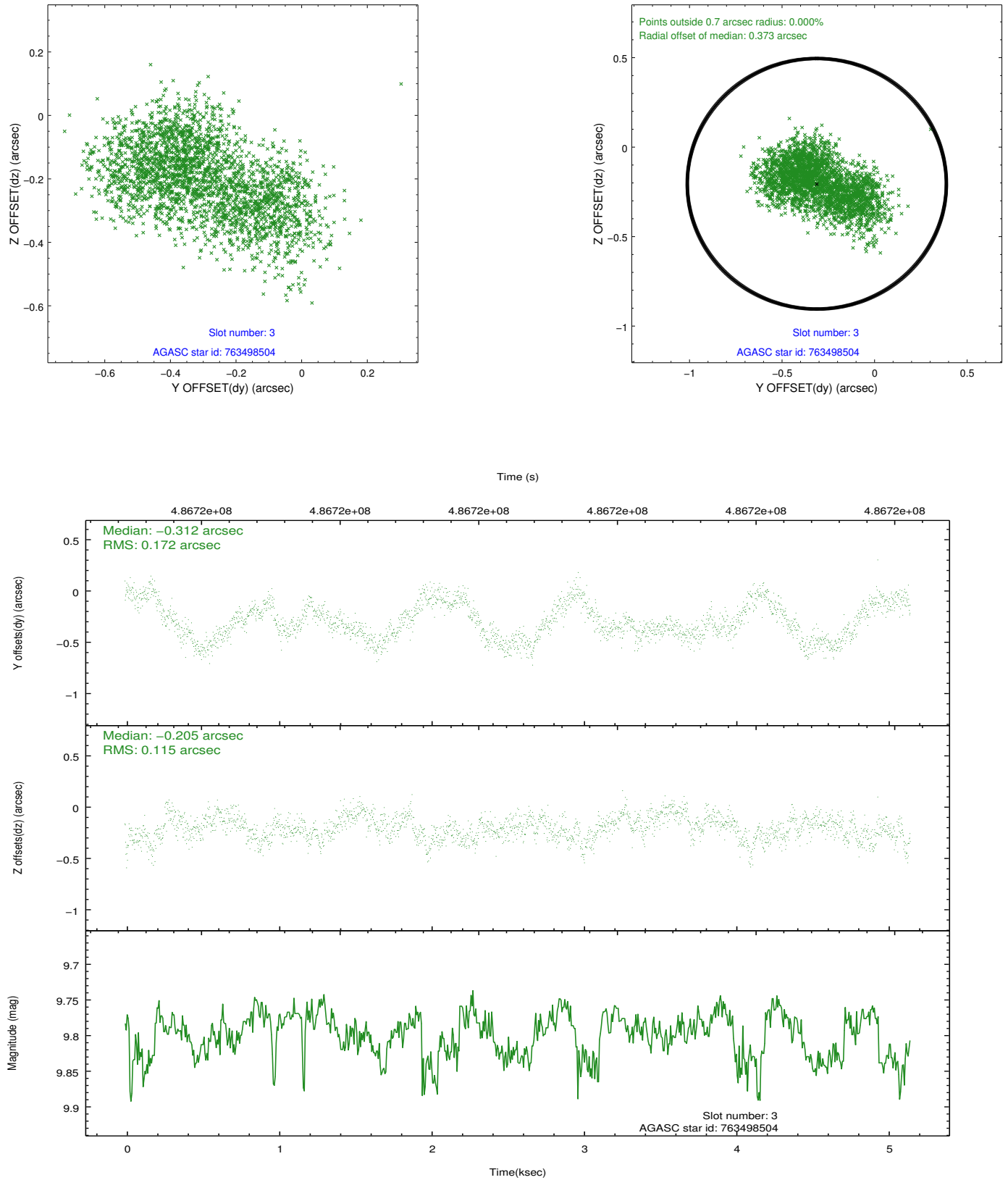


Slot Statistics

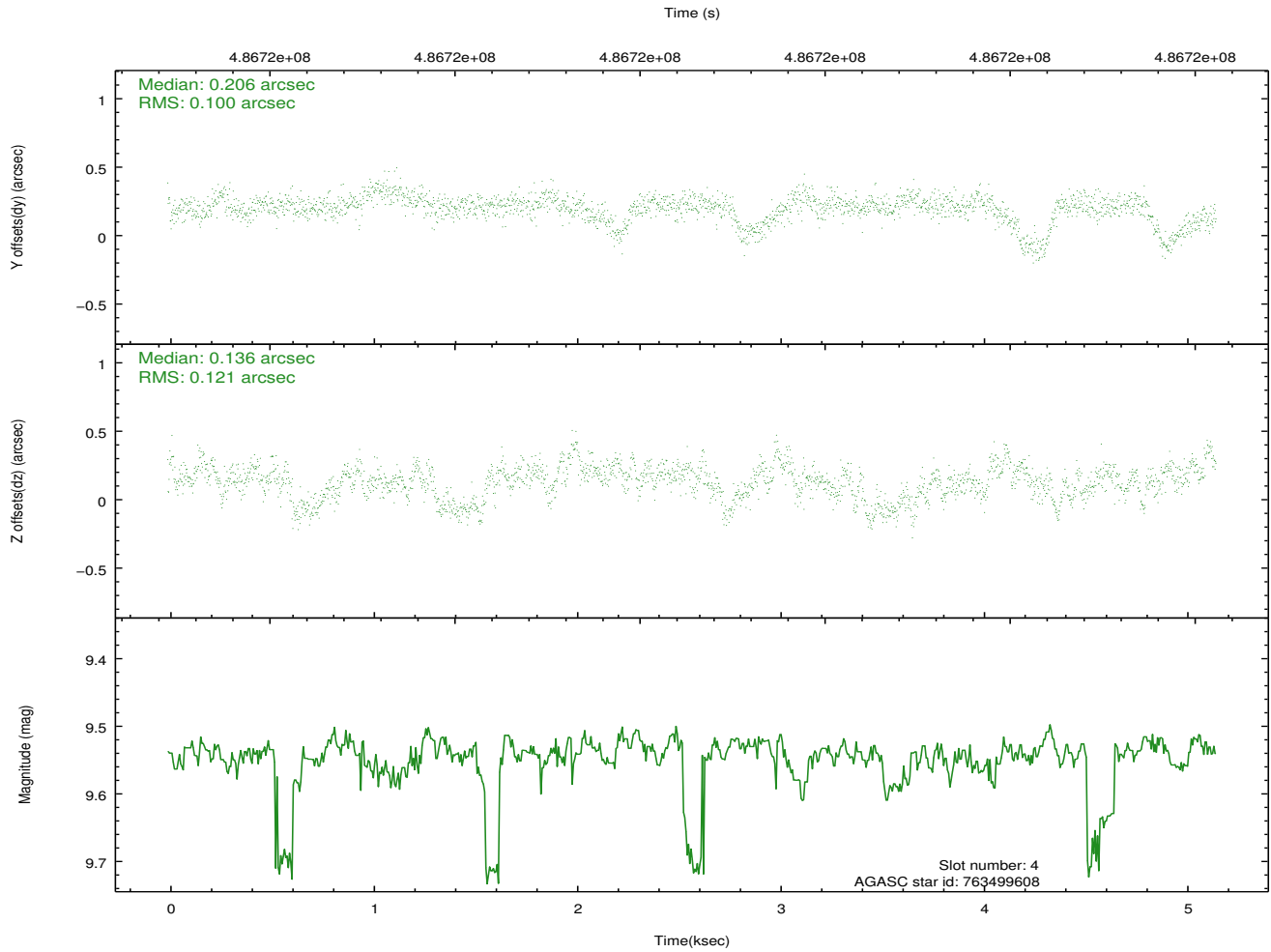
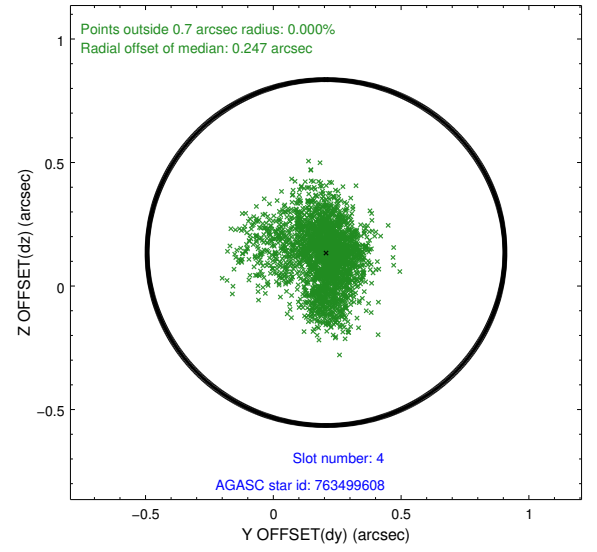
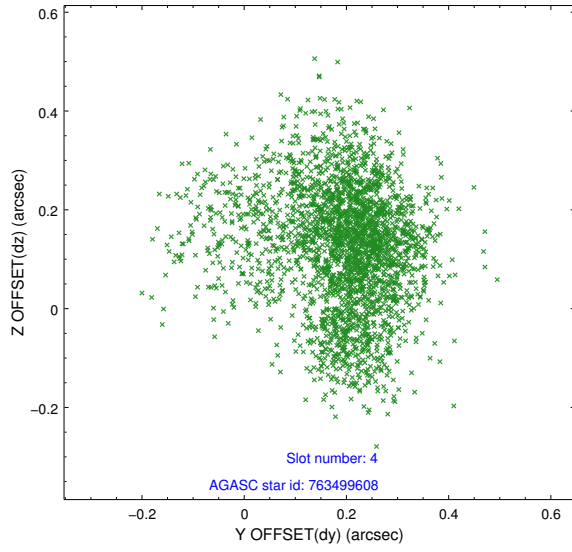
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.02	1256	0.075	-0.021	0.015	0.023	0.000000	0.000000	915.27	-845.31
1	FID		ACIS-I-5	7.01	1257	-0.279	0.063	0.008	0.013	0.000000	0.000000	-1832.57	1051.65
2	FID		ACIS-I-6	7.01	1257	0.112	0.030	0.012	0.019	0.000000	0.000000	379.54	1697.48
3	GUIDE	used	763498504	9.80	2508	-0.312	-0.205	0.224	0.345	351.252498	-11.852907	401.40	-745.02
4	GUIDE	used	763499608	9.54	2503	0.206	0.136	0.167	0.284	351.830271	-12.196099	-1550.63	-2105.37
5	GUIDE	used	763499880	10.20	2423	0.358	0.124	0.310	0.475	351.711948	-11.870757	-312.48	-2200.94
6	GUIDE	used	763502704	9.80	2478	0.002	-0.056	0.238	0.372	351.449244	-11.609906	921.70	-1733.92
7	GUIDE	used	763502176	6.52	2513	-0.258	0.017	0.130	0.246	351.449691	-11.155630	2417.55	-2395.87

2.4 Star Slots

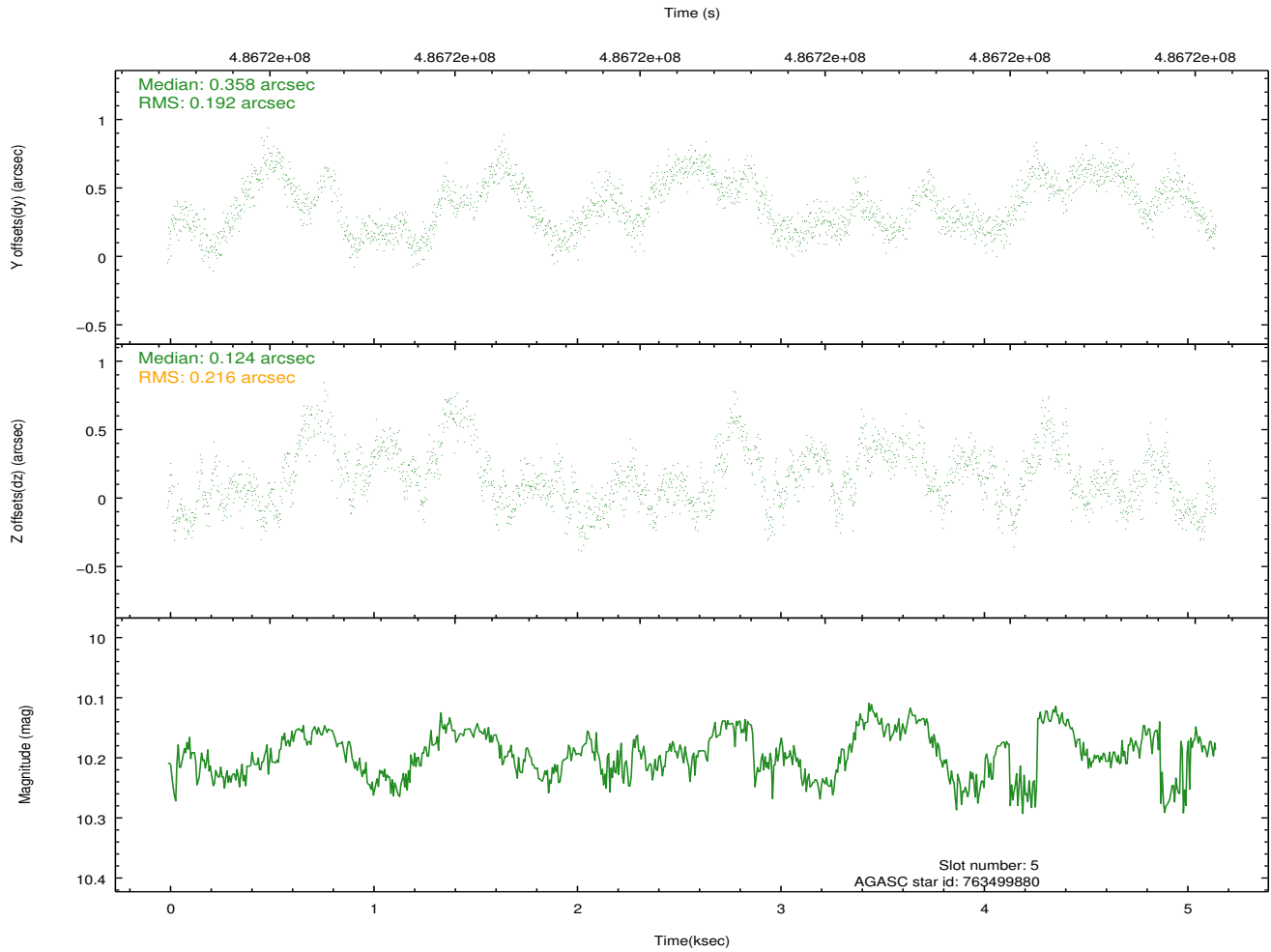
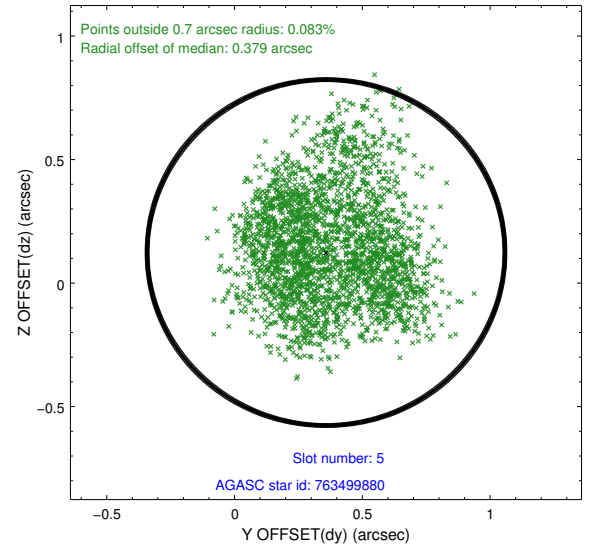
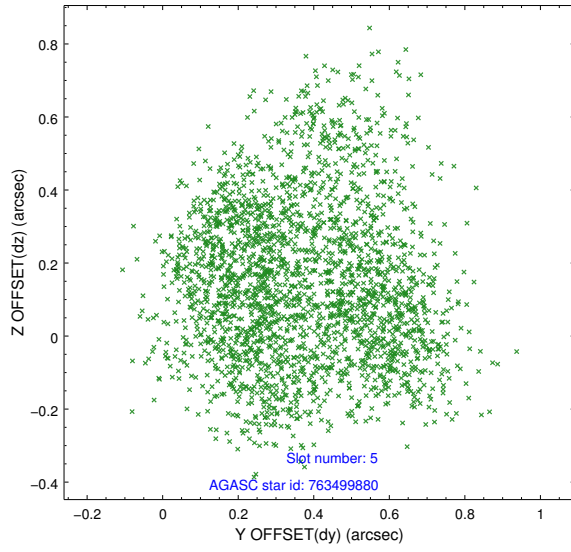
2.4.1 Slot 3



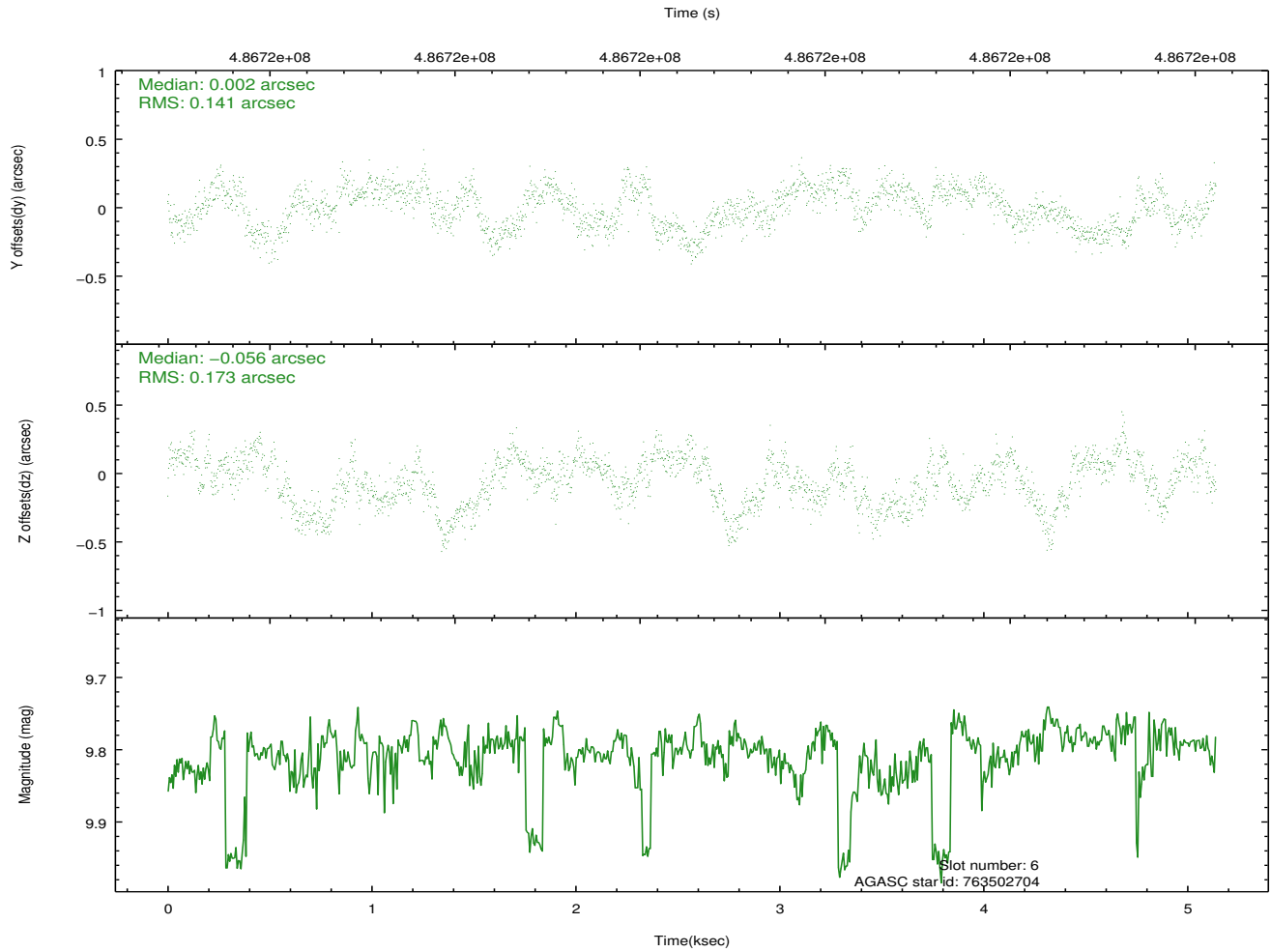
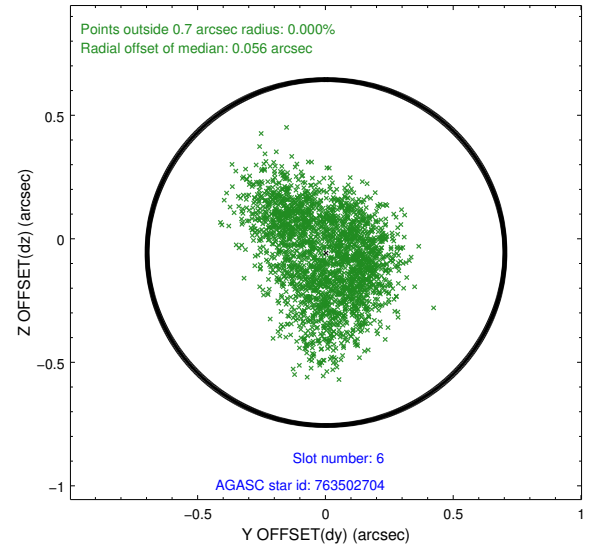
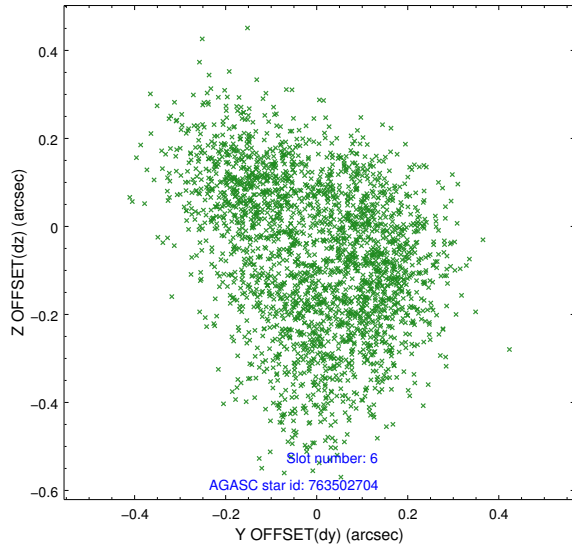
2.4.2 Slot 4



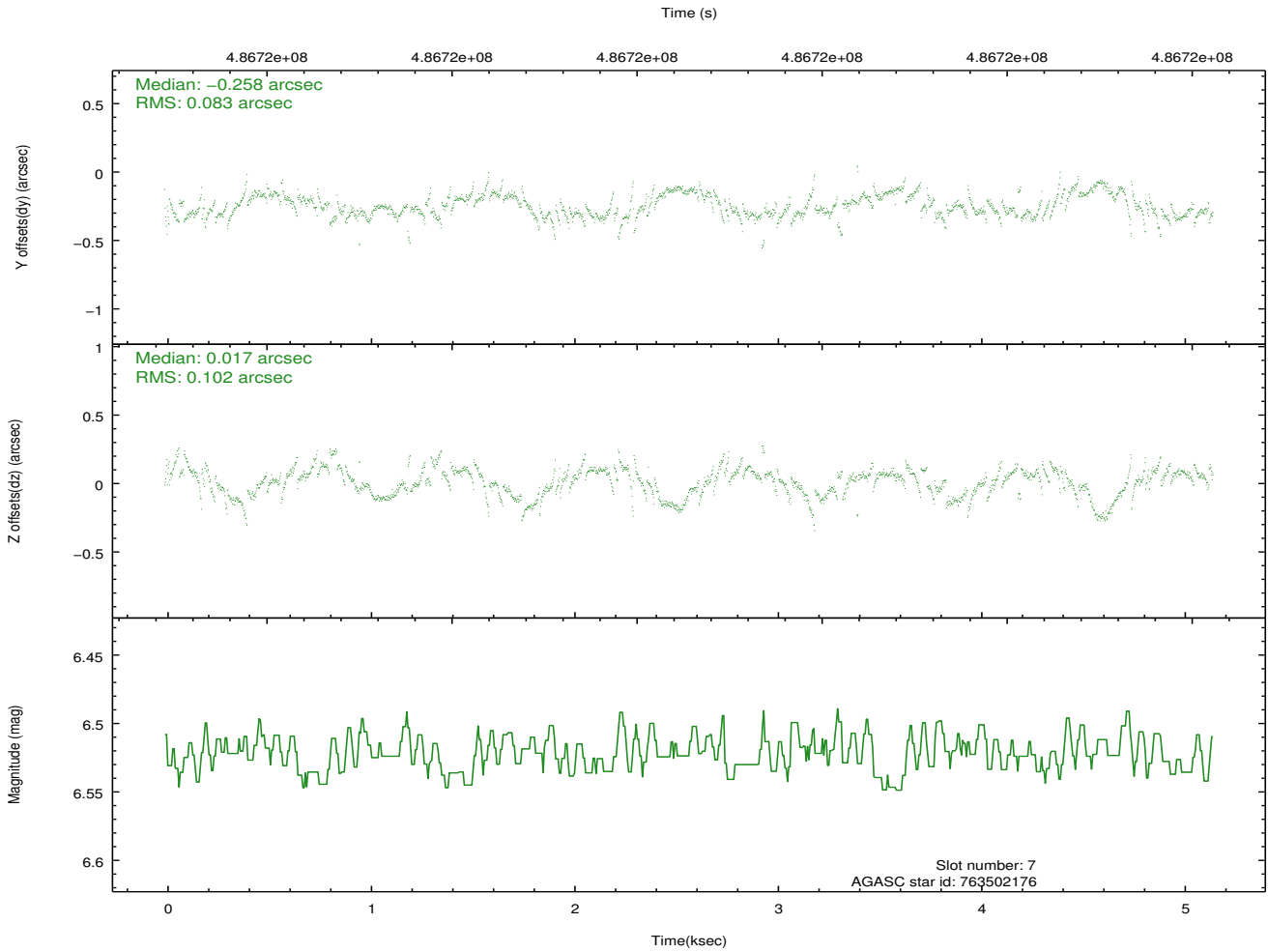
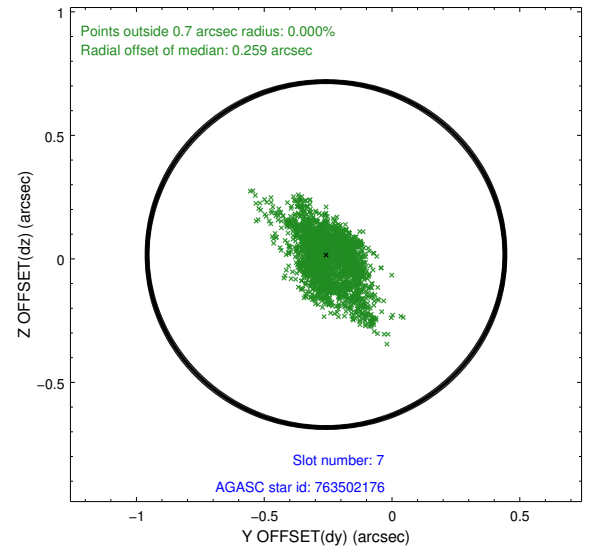
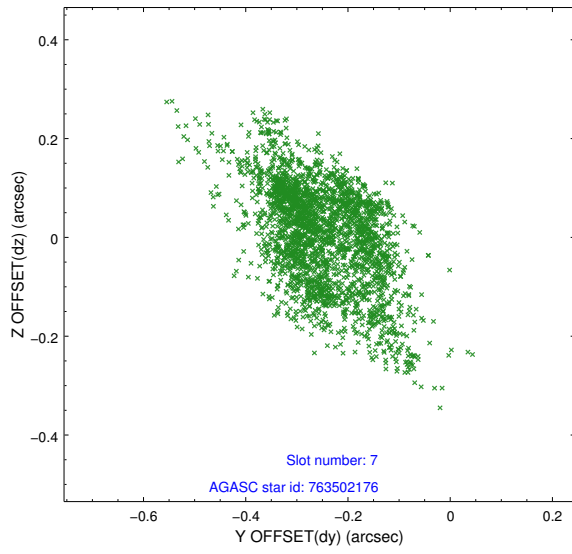
2.4.3 Slot 5



2.4.4 Slot 6

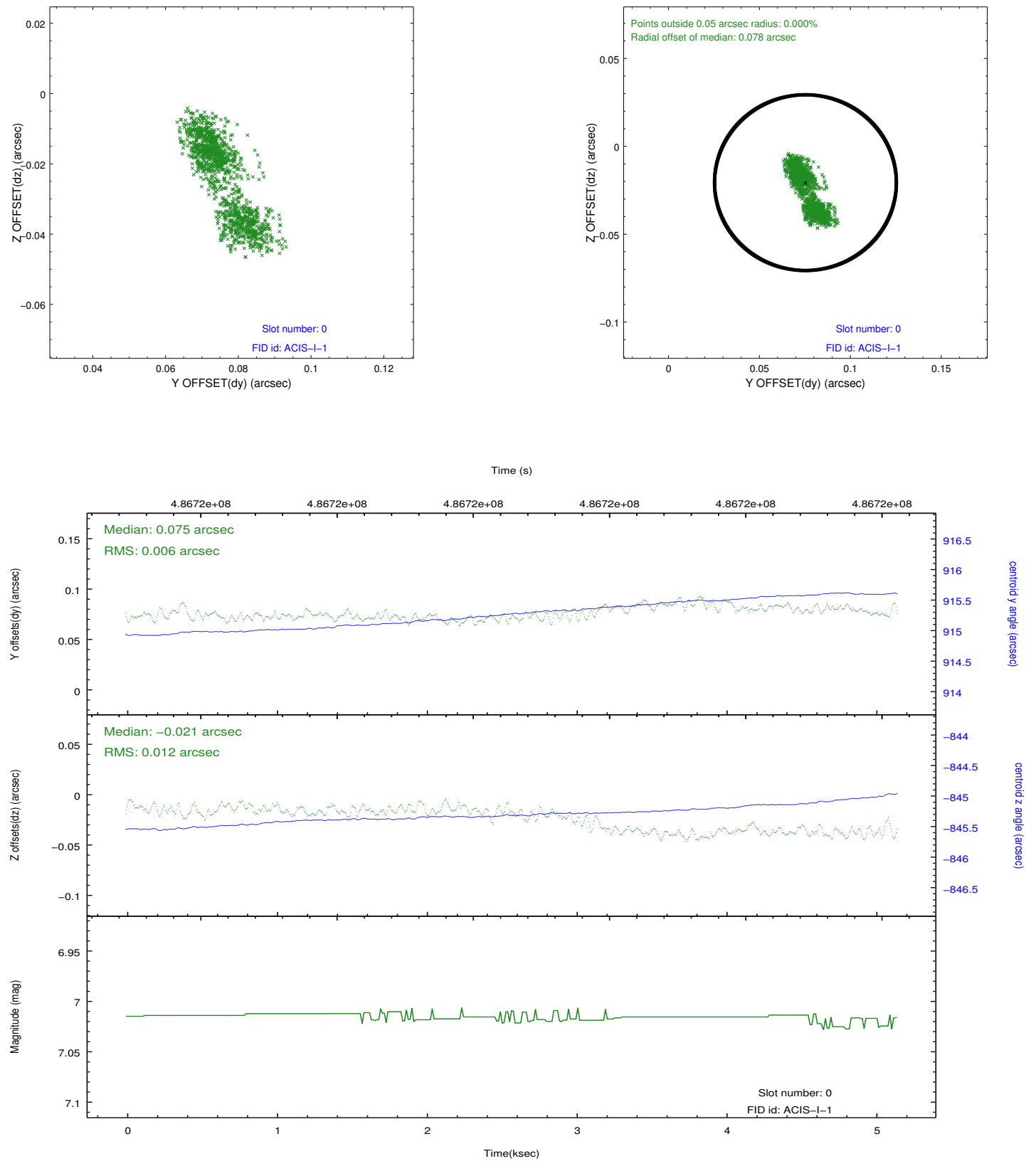


2.4.5 Slot 7

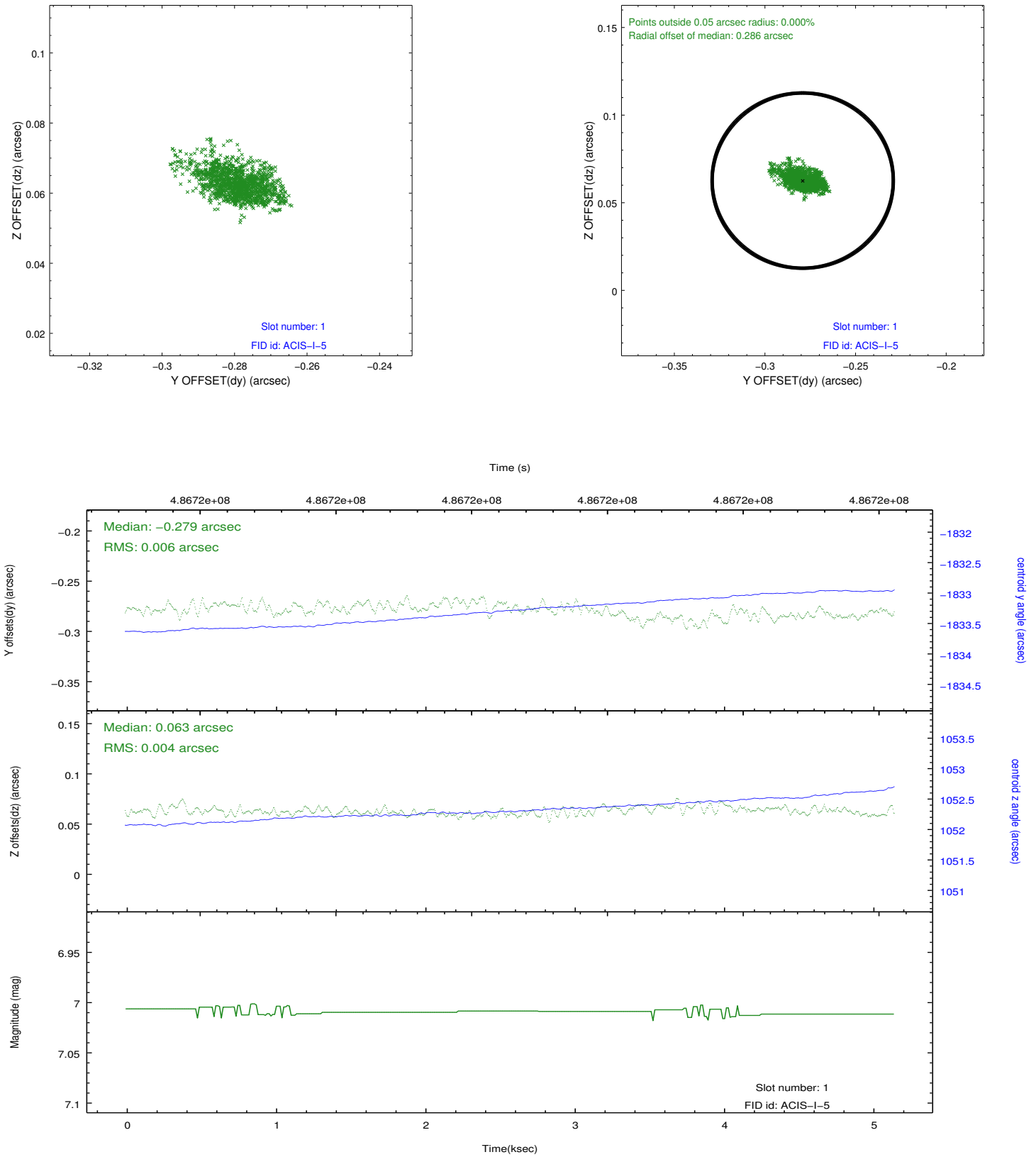


2.5 FID Slots

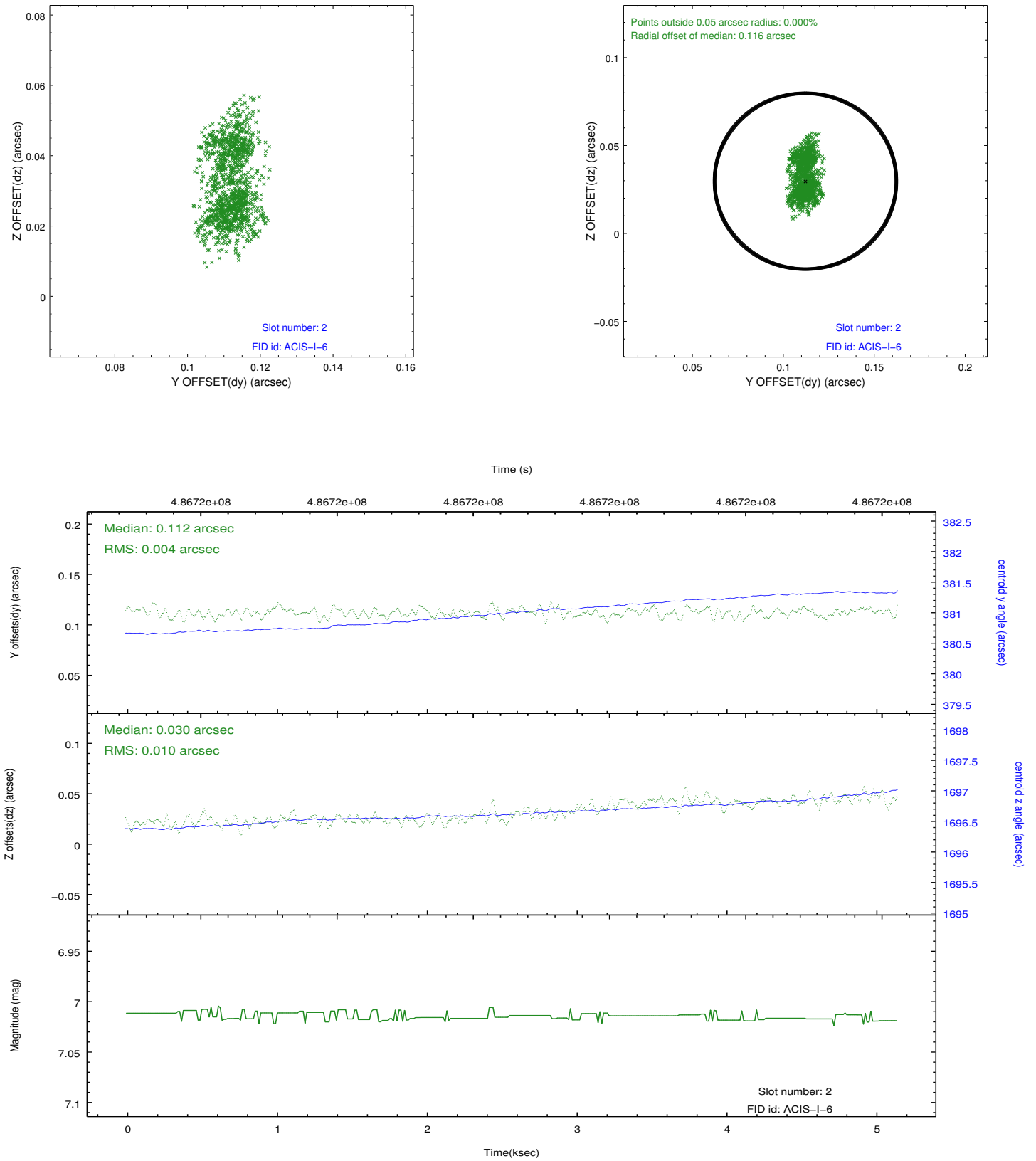
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0833751613498

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.