

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13600 - L2 Version 2
Chandra X-Ray Center

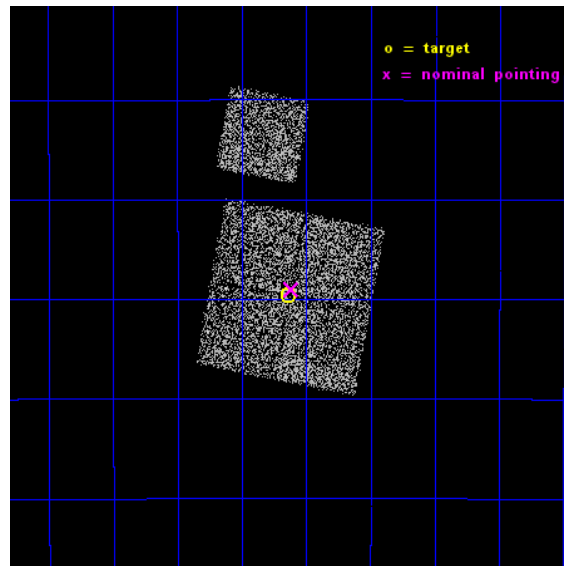
L2 Processing Date : Nov 26 2014

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1 Front

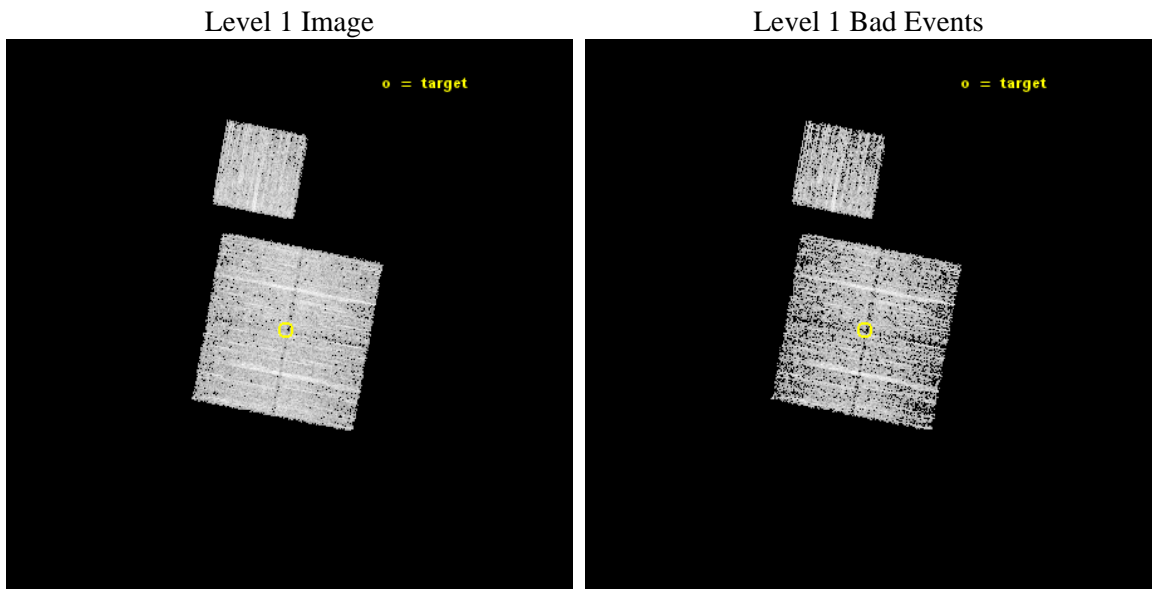
seq_num	801161	Sequence number
obs_id	13600	Observation id
title	To The Outer Limits of Clusters with Chandra and Suzaku	Proposal t
observer	Dr. Eric Miller	Principal investigator
object	A2667	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	357.65905	Observer's specified target RA [deg]
dec_targ	-25.993908	Observer's specified target Dec [deg]
ra_nom	357.65375112619	Nominal RA [deg]
dec_nom	-25.983874188358	Nominal Dec [deg]
roll_nom	10.746911129606	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4770.9000366926	Sum of GTIs [s]
livetime	4708.5647154277	Livetime [s]
ontime0	4770.9000366926	Sum of GTIs [s]
ontime1	4770.9000366926	Sum of GTIs [s]
ontime2	4770.9000366926	Sum of GTIs [s]
ontime3	4770.9000366926	Sum of GTIs [s]
ontime6	4770.9000366926	Sum of GTIs [s]
l2events	12542	Number of level 2 events



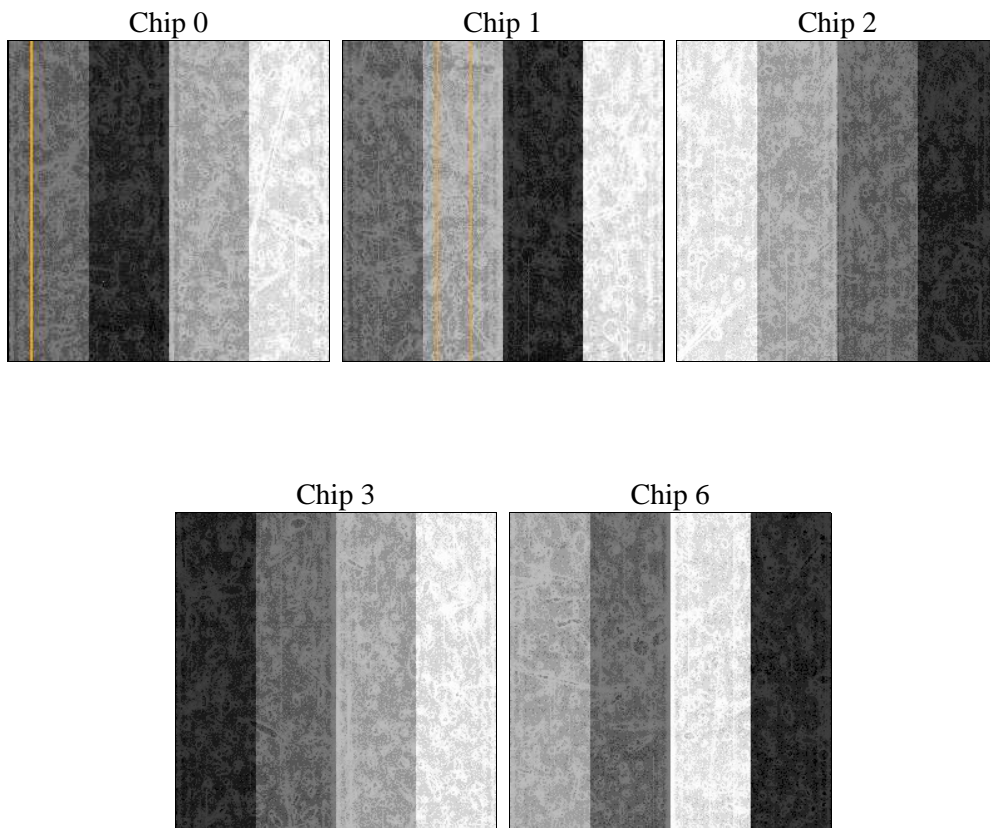
2 OBI

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	4770.9000366926	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	4770.9000366926	Sum of GTIs [s]
date	2014-11-27T03:50:18	Date and time of file creation	ontime1	4770.9000366926	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4770.9000366926	Sum of GTIs [s]
			ontime3	4770.9000366926	Sum of GTIs [s]
			ontime6	4770.9000366926	Sum of GTIs [s]
			l1events	121746	Number of level 1 events

2.1.4 Events

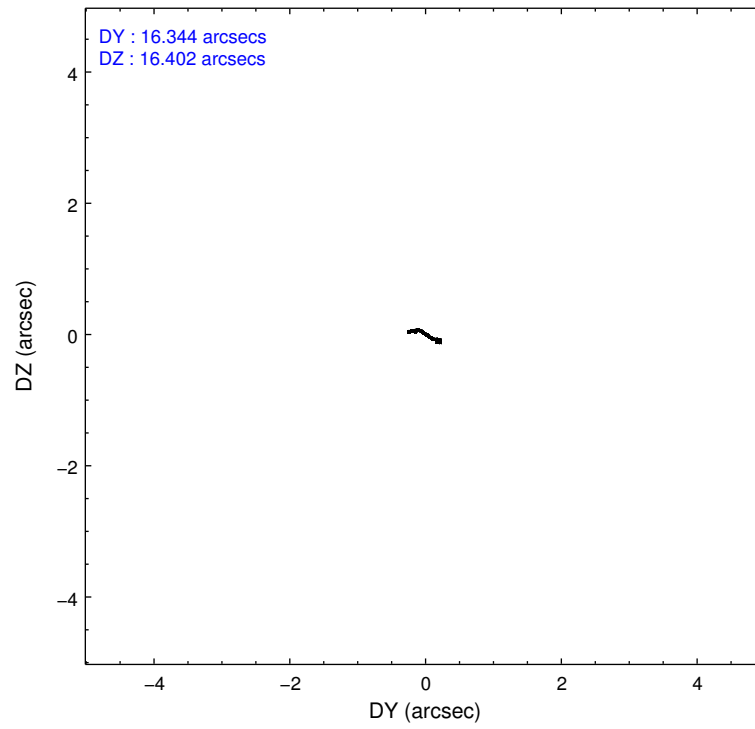
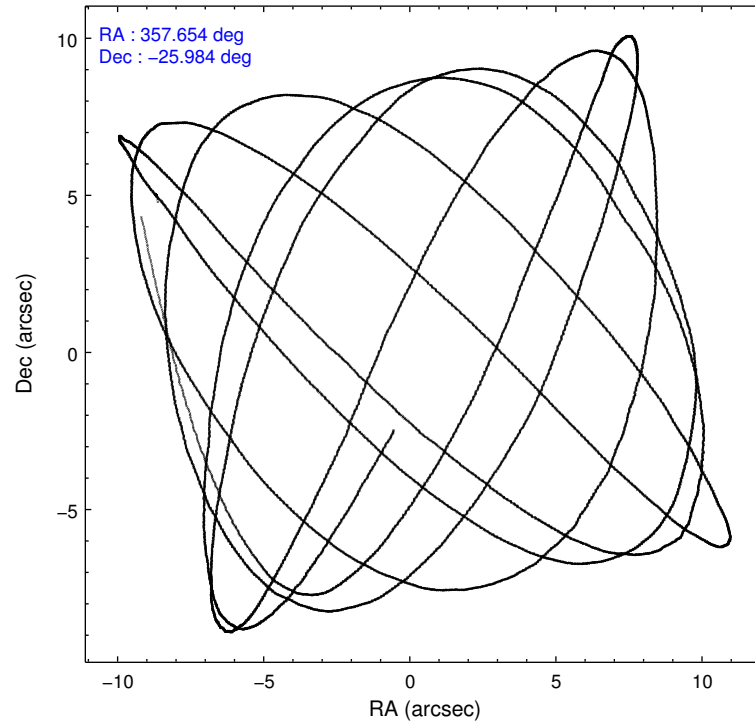
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	23459	23800	24546	24256	25685
rejected events	20532	20524	21601	21482	22718
rejected %	87%	86%	88%	88%	88%

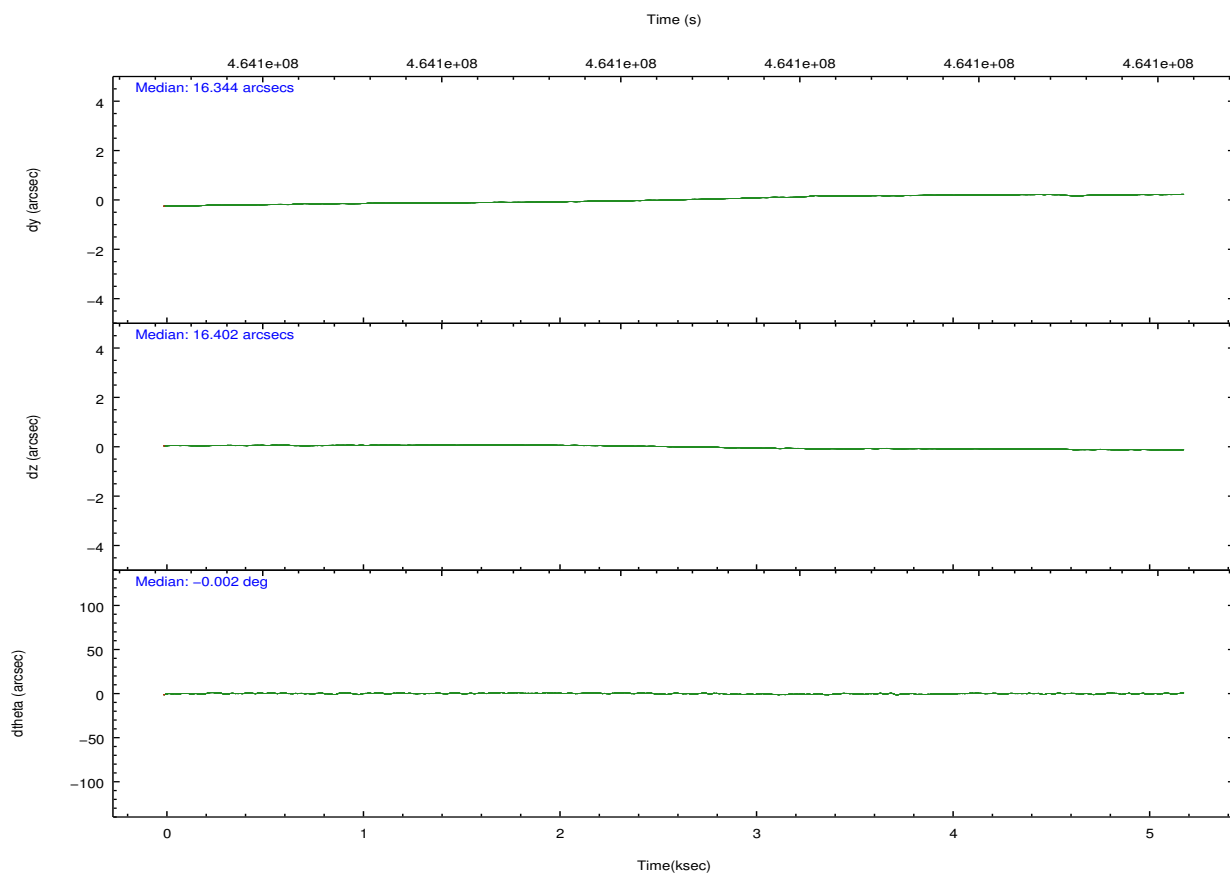
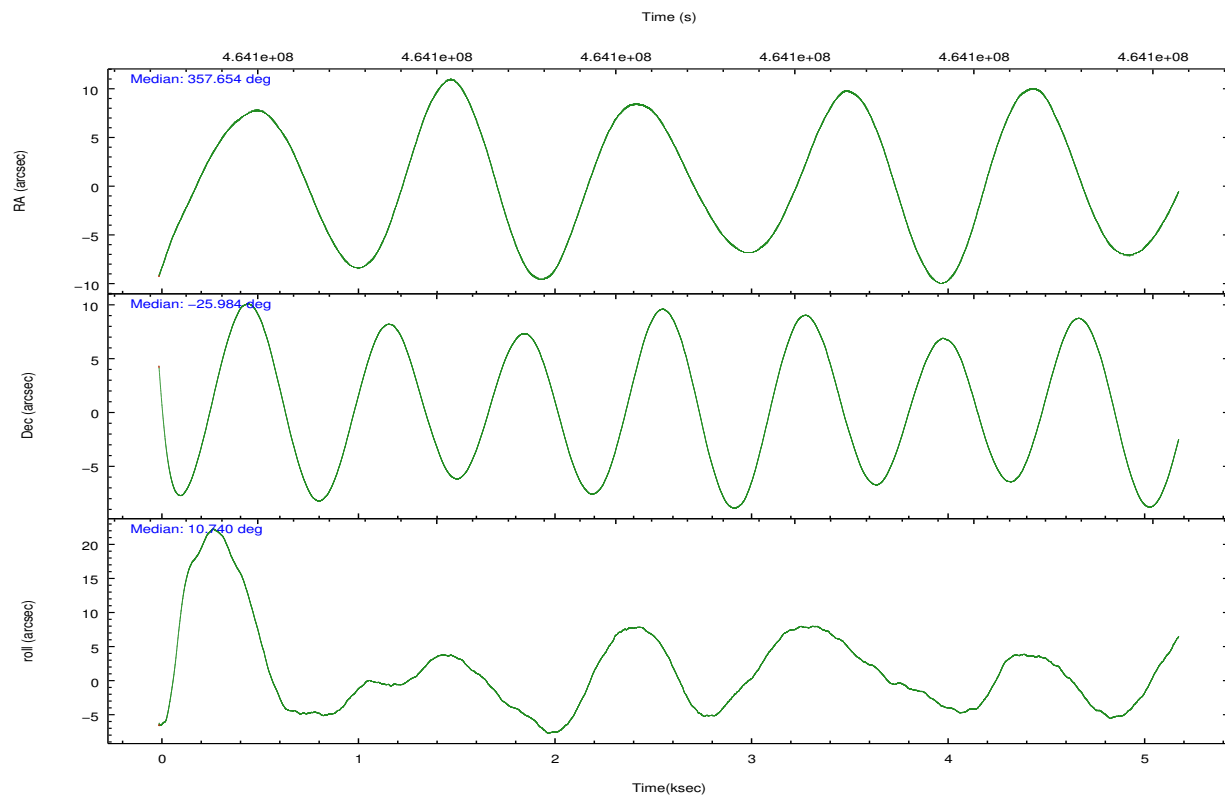
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	981	1121	1072	957	1004
	4%	4%	4%	3%	3%
grade 1 events	10	8	12	13	22
	0%	0%	0%	0%	0%
grade 2 events	747	816	729	607	696
	3%	3%	2%	2%	2%
grade 3 events	318	323	313	296	313
	1%	1%	1%	1%	1%
grade 4 events	290	316	274	329	298
	1%	1%	1%	1%	1%
grade 5 events	1200	1233	1116	1300	1254
	5%	5%	4%	5%	4%
grade 6 events	595	703	565	585	661
	2%	2%	2%	2%	2%
grade 7 events	19318	19280	20465	20169	21437
	82%	81%	83%	83%	83%

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	357.630708	357.653751126193	CCD I2 on	Y	Y
[deg] Pointing Dec	-26.001863	-25.98387418835836	CCD I3 on	Y	Y
[deg] Pointing Roll	10.528184	10.74691112960599	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)	464096877.184000	464095806.15442	CCD S5 on	N	N
Observation start date	2012-09-15T11:46:50	2012-09-15T11:30:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	464101877.184000	464102010.99225	On-chip summing requested	N	N
Observation end date	2012-09-15T13:10:10	2012-09-15T13:13:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



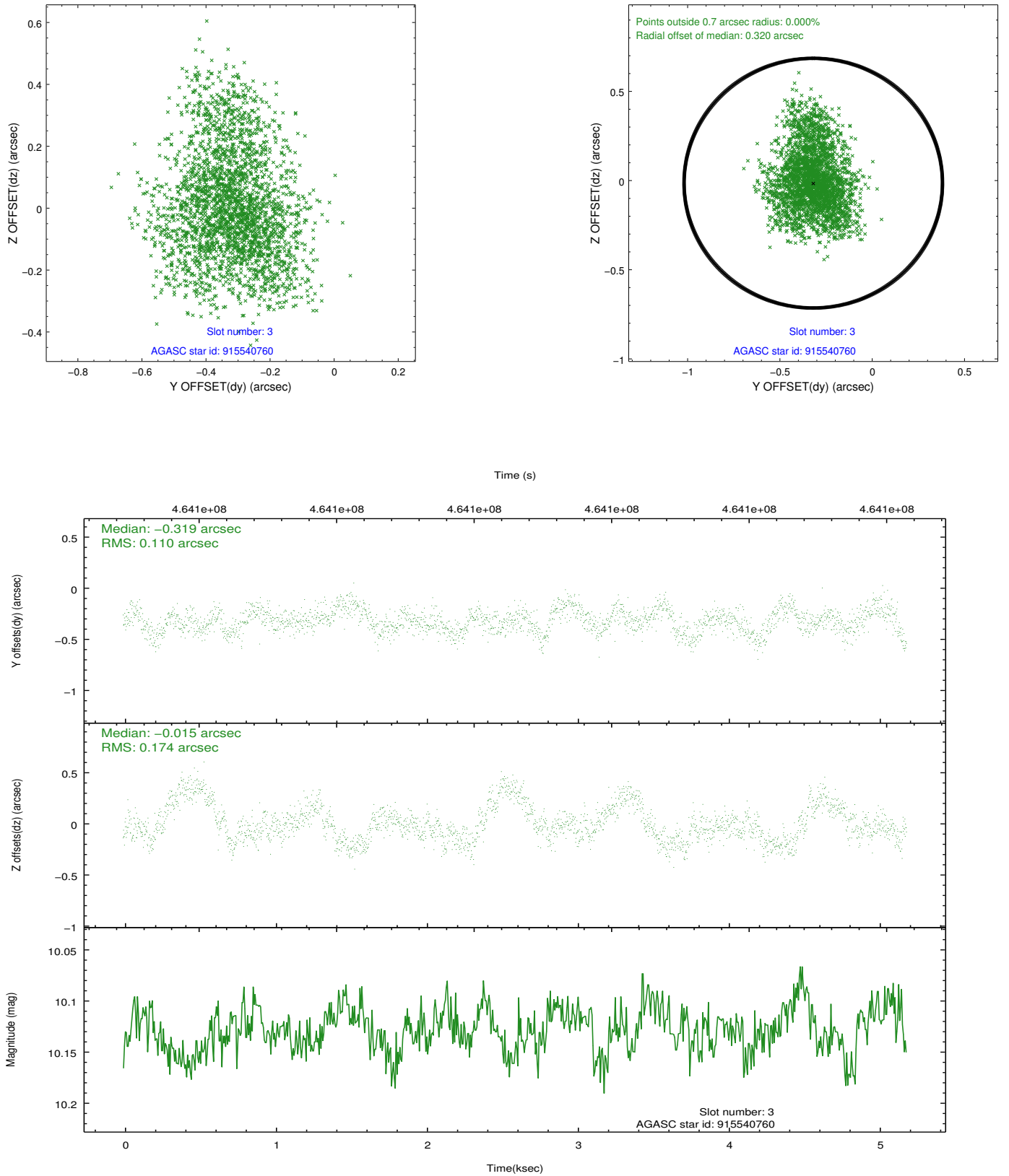


Slot Statistics

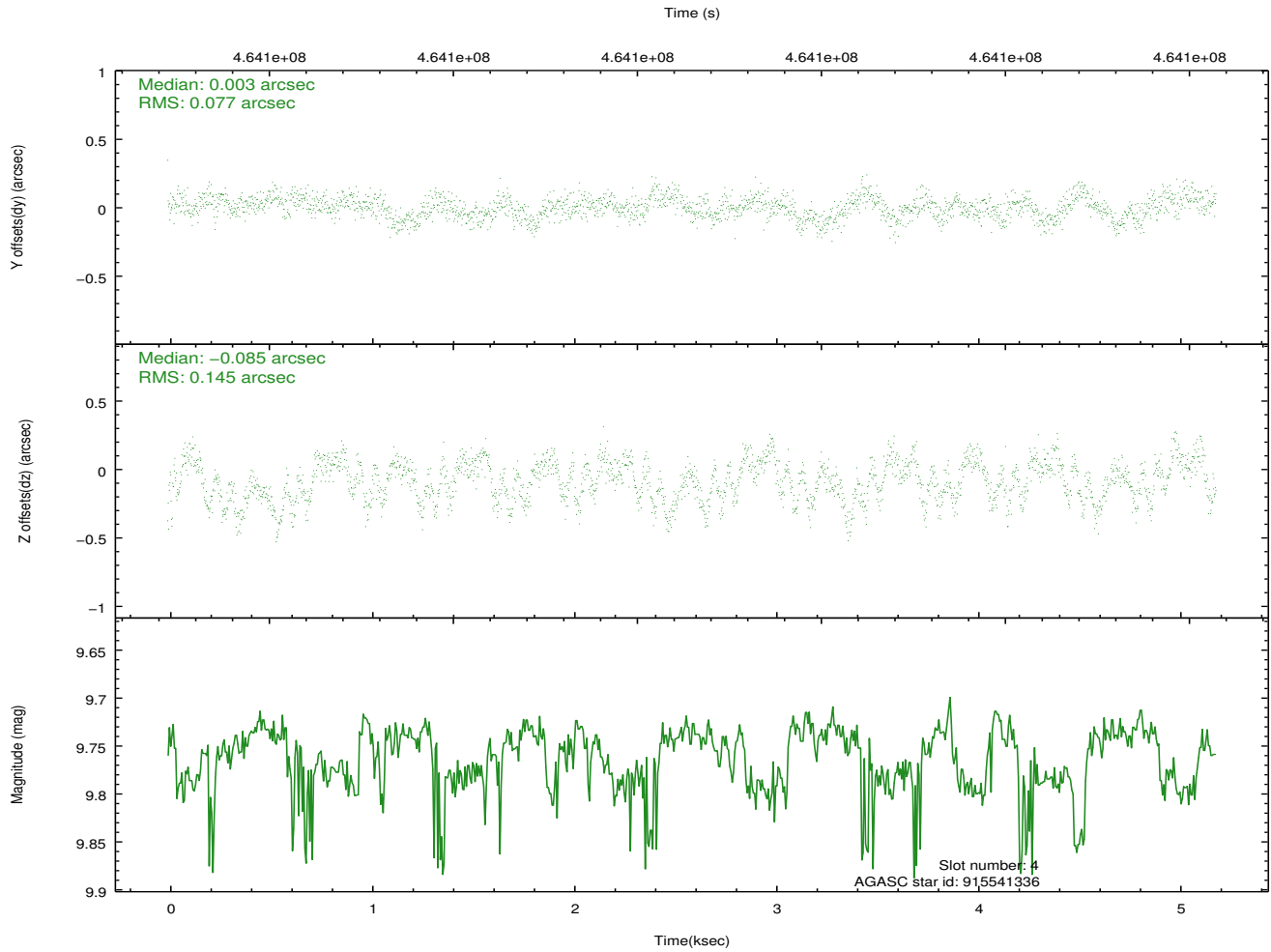
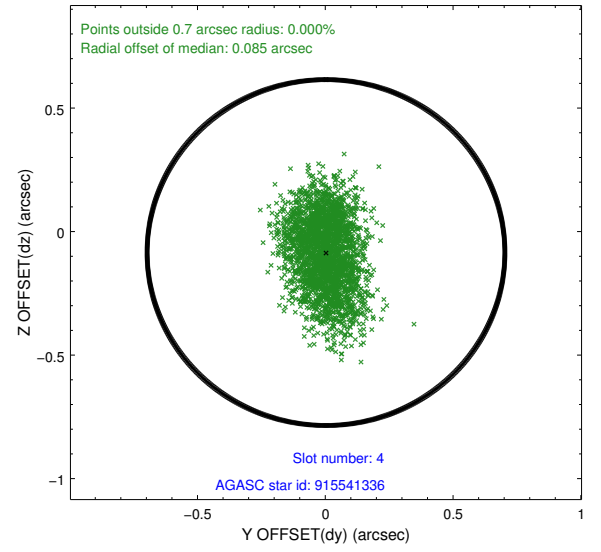
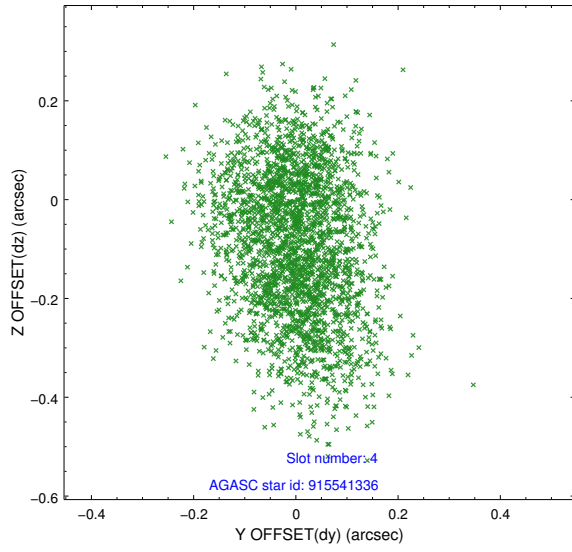
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	1266	0.071	-0.051	0.008	0.017	0.000000	0.000000	923.13	-840.08
1	FID		ACIS-I-5	7.04	1266	-0.246	0.060	0.007	0.013	0.000000	0.000000	-1824.64	1056.95
2	FID		ACIS-I-6	7.04	1266	0.084	0.062	0.008	0.012	0.000000	0.000000	387.43	1702.77
3	GUIDE	used	915540760	10.13	2529	-0.319	-0.015	0.219	0.365	357.353543	-25.648317	-651.95	1415.02
4	GUIDE	used	915541336	9.76	2525	0.003	-0.085	0.175	0.284	357.582055	-26.642452	-573.25	-2237.80
5	GUIDE	used	915543864	10.10	2520	0.109	-0.024	0.197	0.296	357.439253	-25.791763	-471.70	855.97
6	GUIDE	used	915546416	9.91	2518	-0.063	-0.126	0.195	0.330	357.544948	-25.638088	-34.02	1338.38
7	GUIDE	used	915414592	9.54	2529	0.280	0.252	0.124	0.216	356.936720	-26.186040	-2325.65	-247.26

2.4 Star Slots

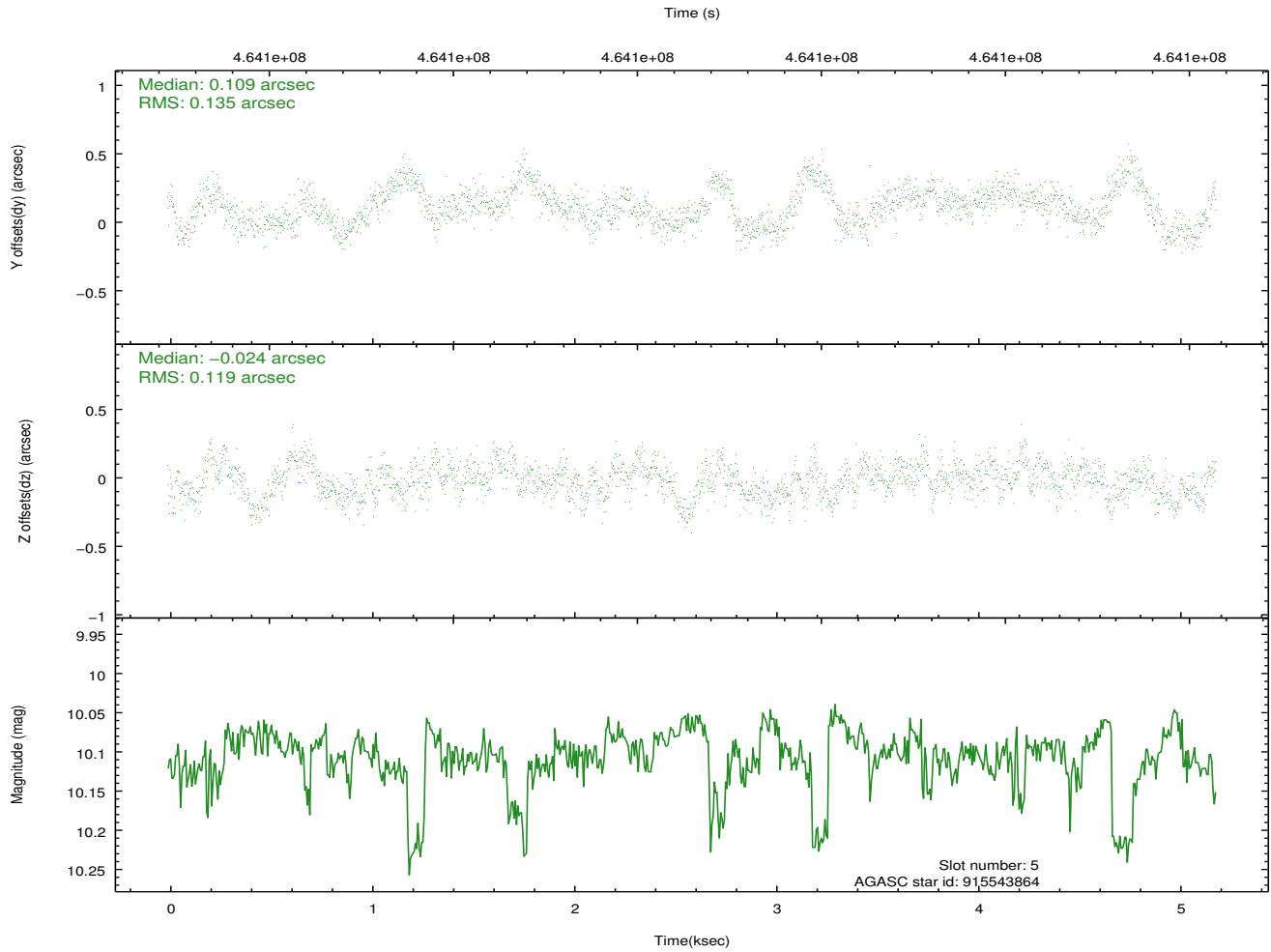
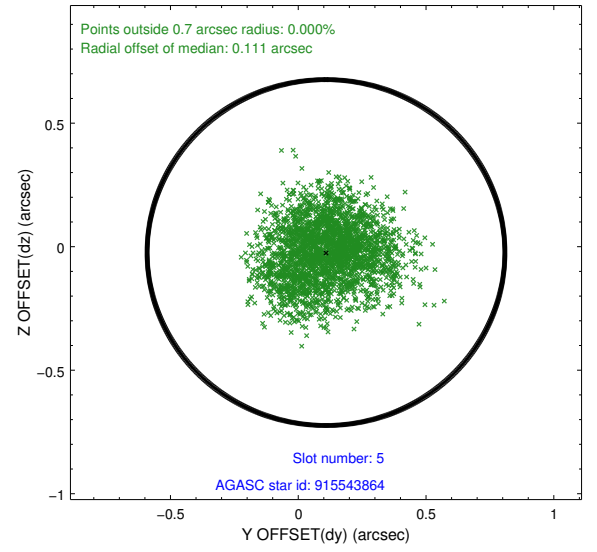
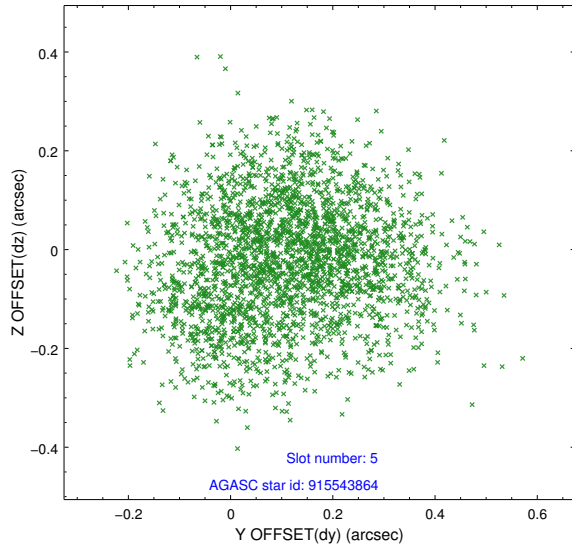
2.4.1 Slot 3



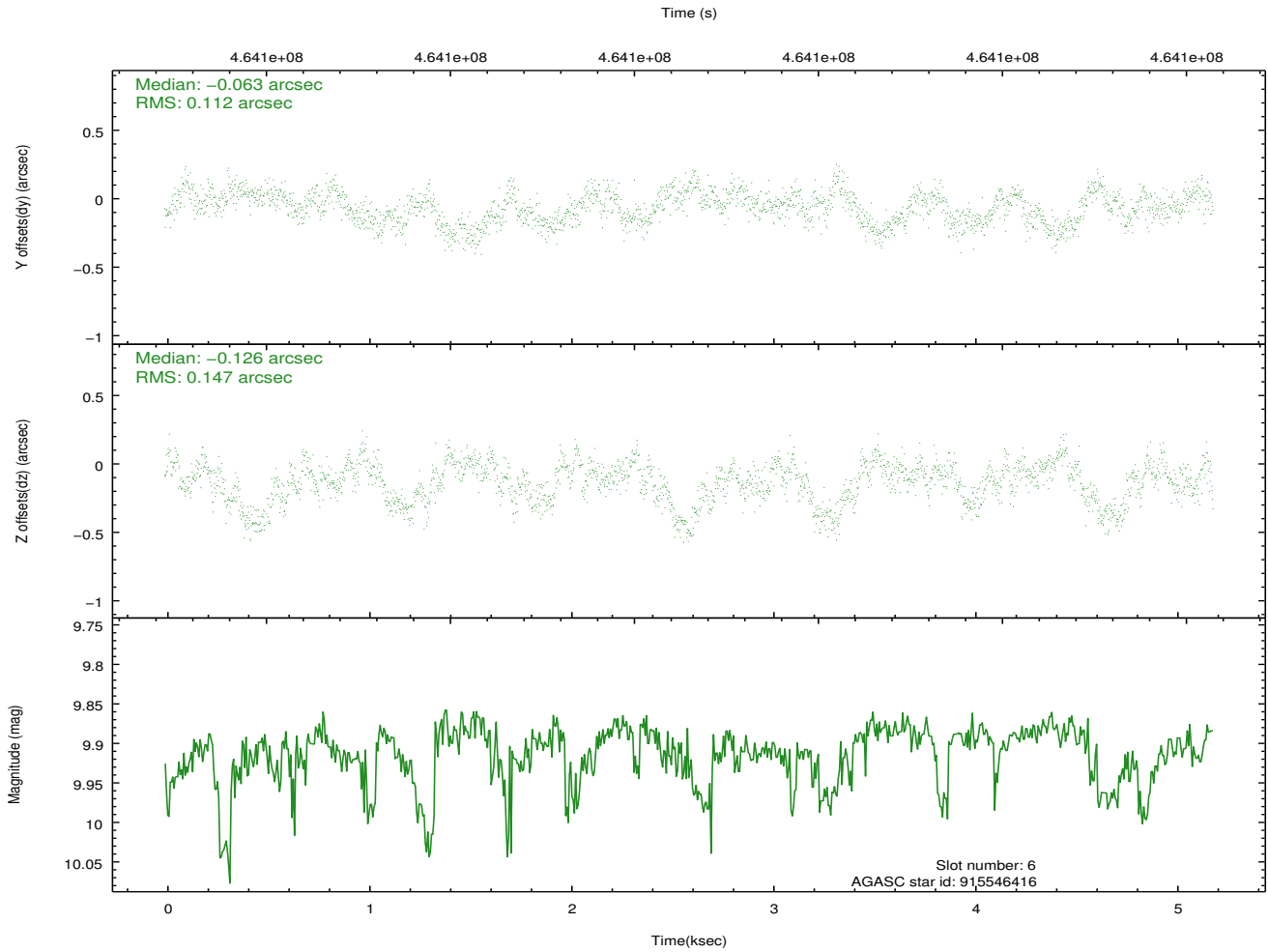
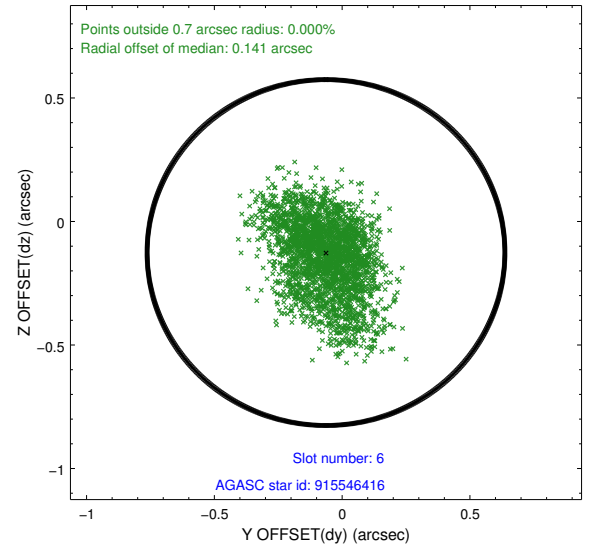
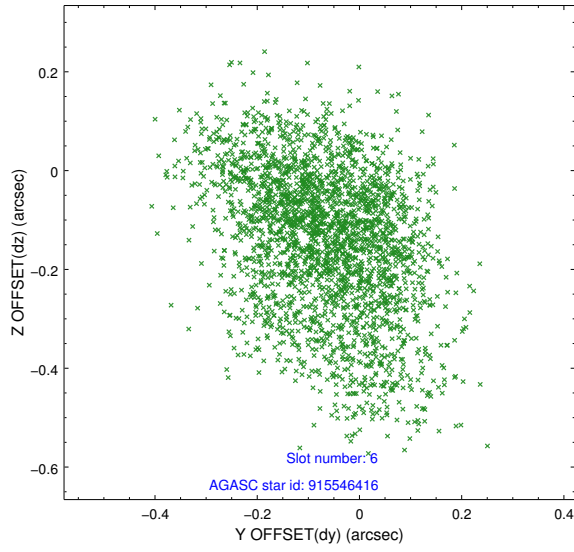
2.4.2 Slot 4



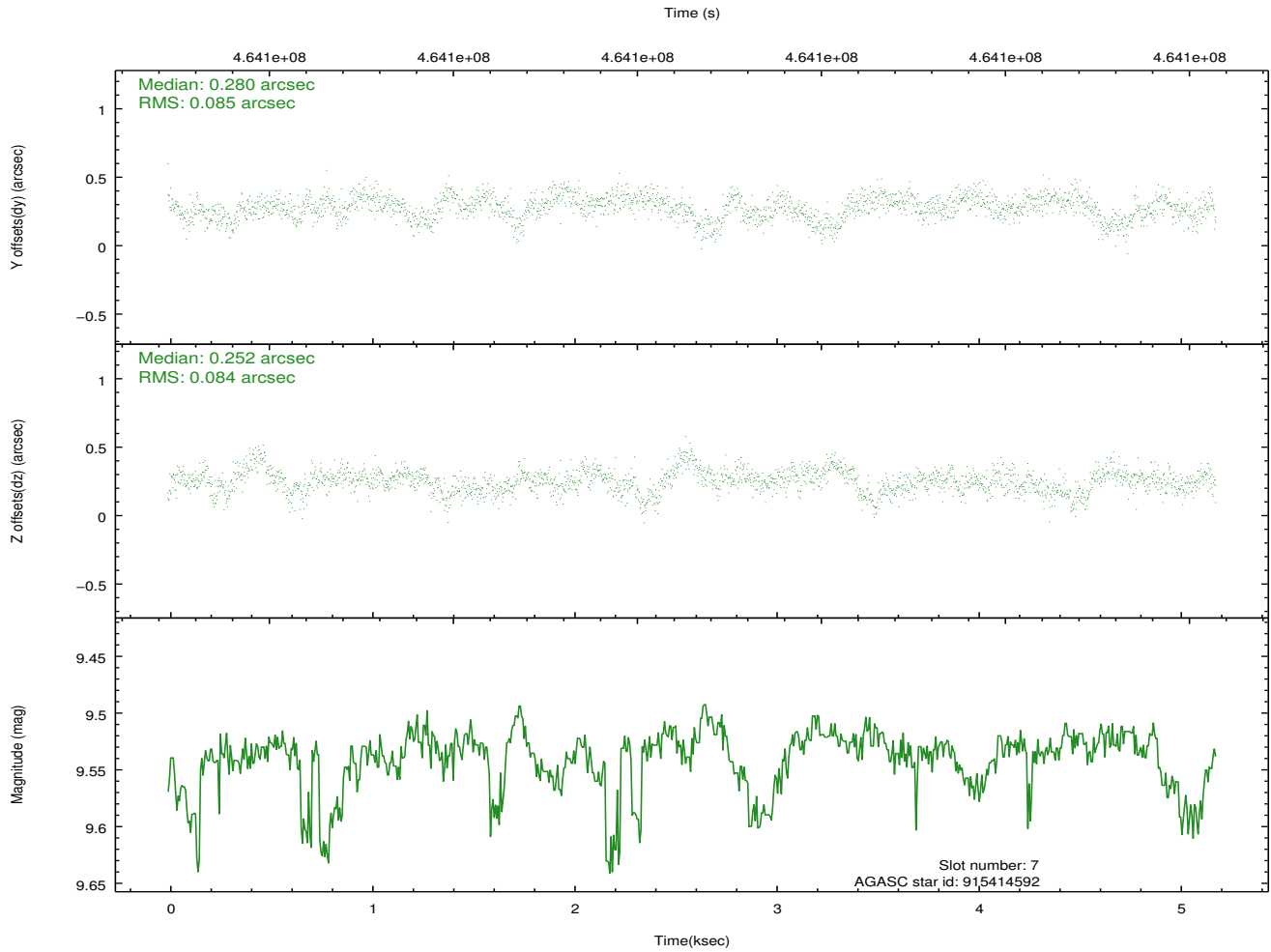
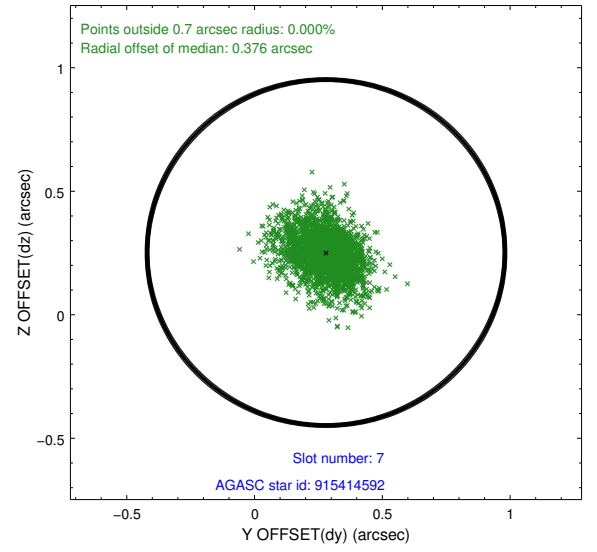
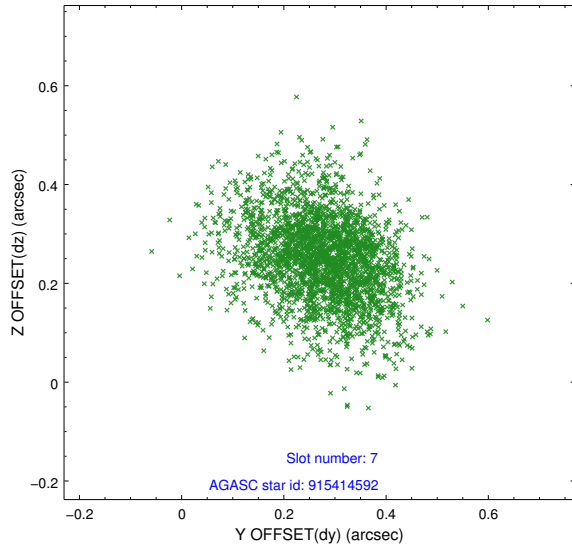
2.4.3 Slot 5



2.4.4 Slot 6

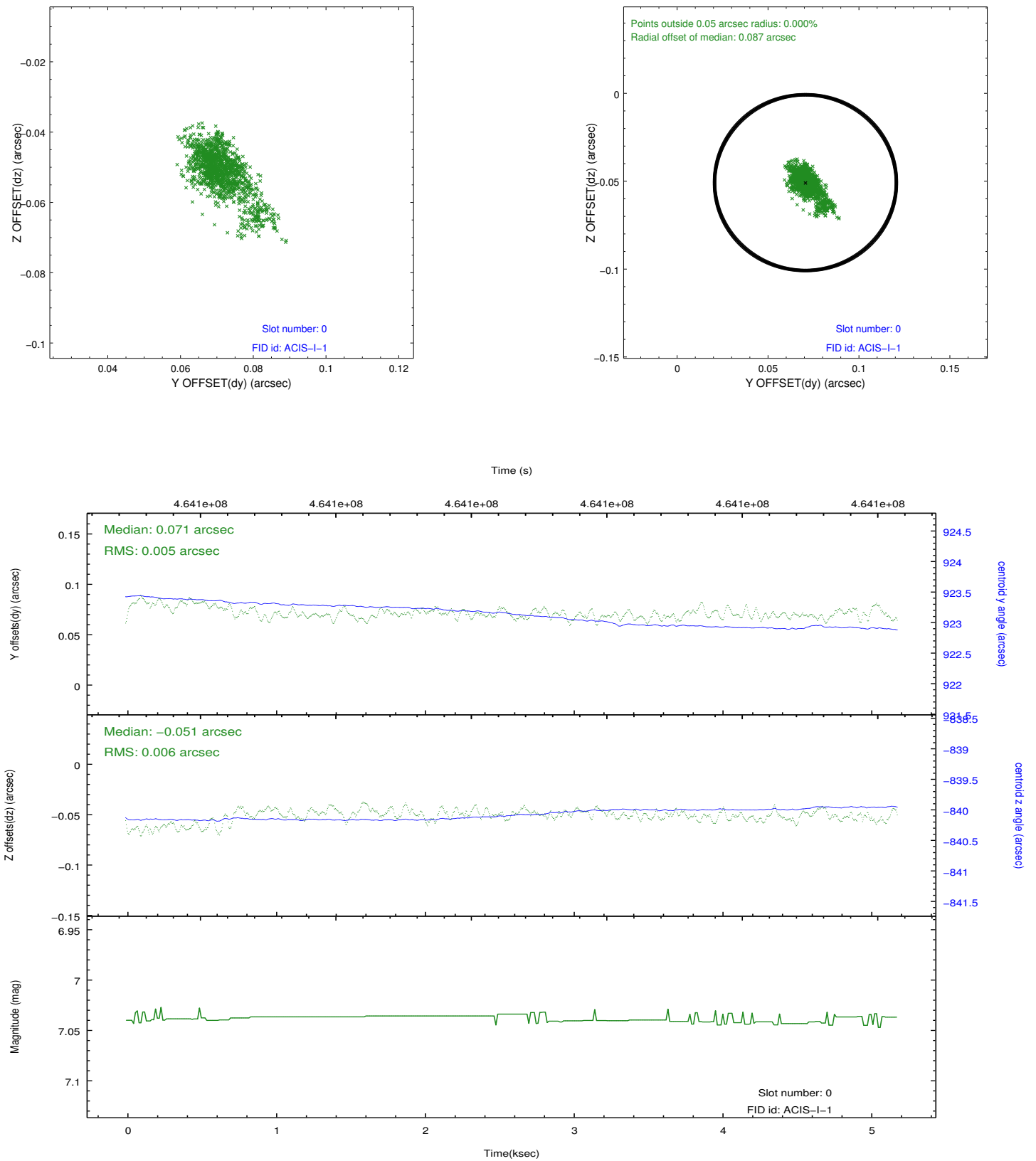


2.4.5 Slot 7

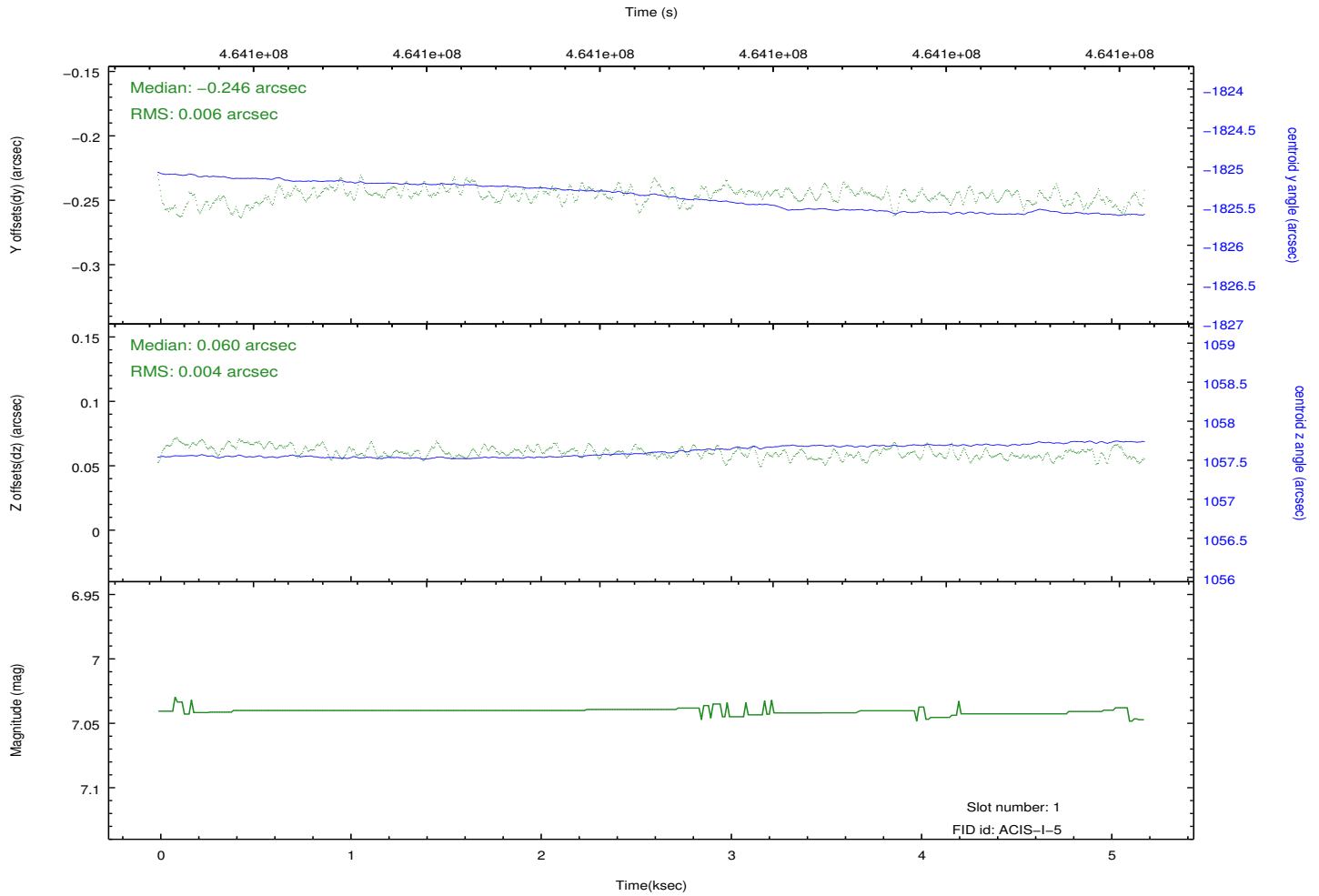
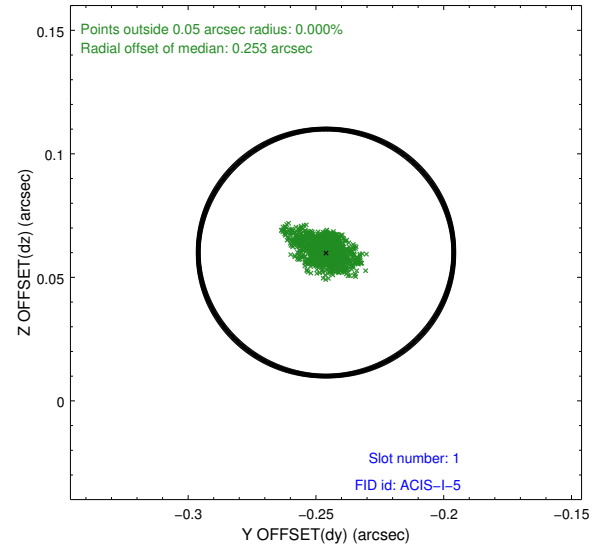
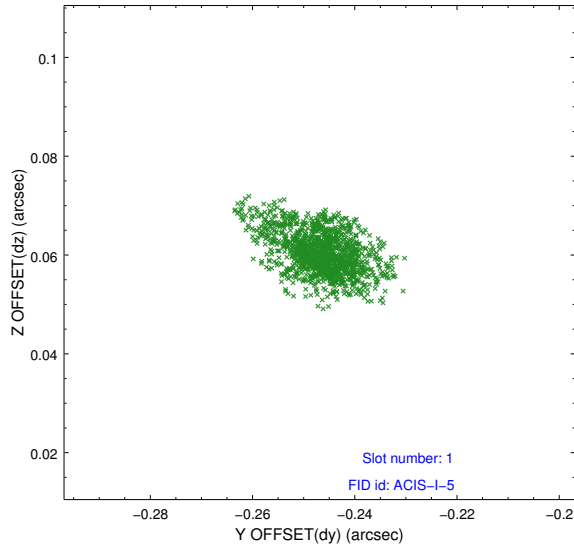


2.5 FID Slots

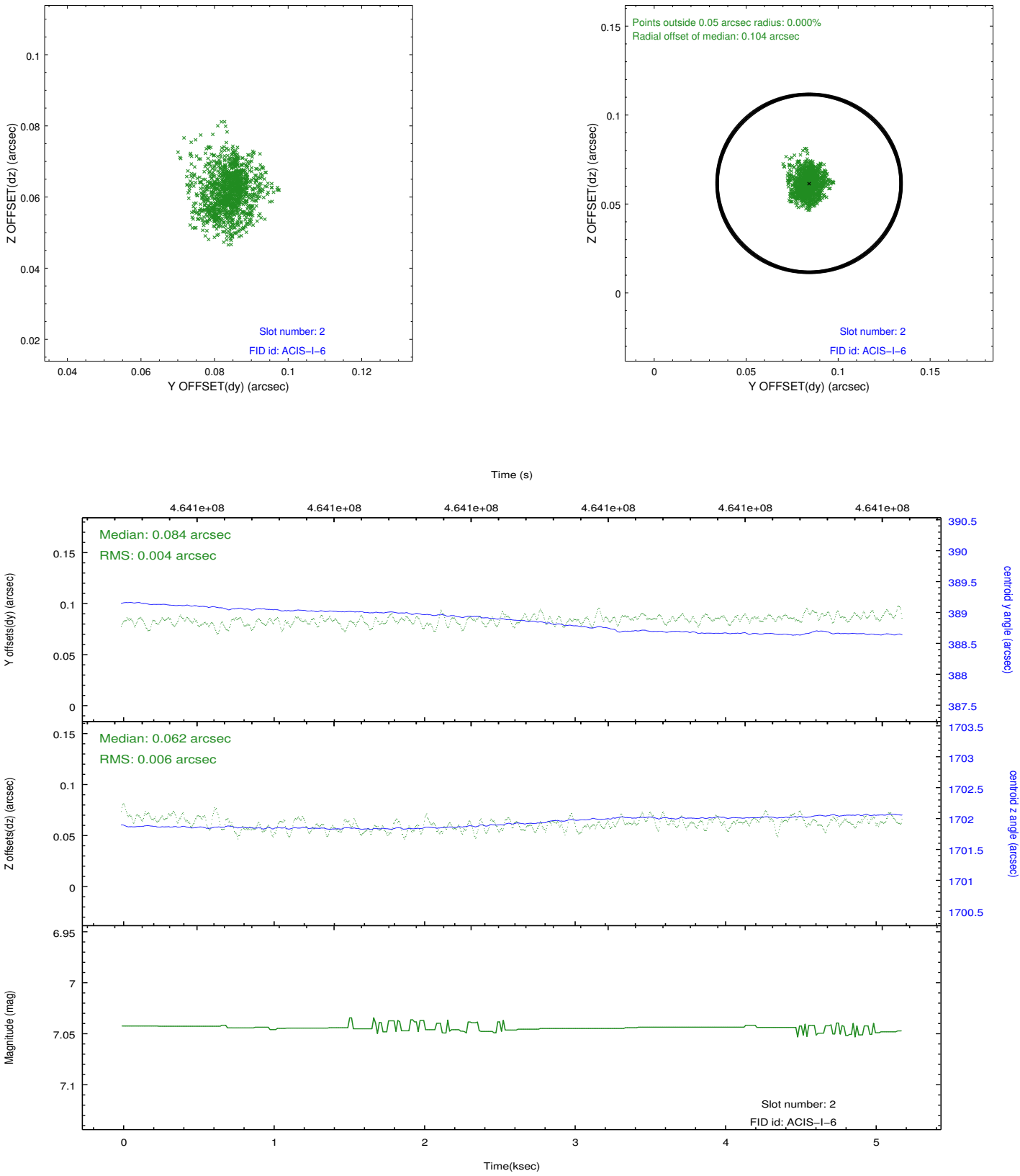
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7709000366926

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.