

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 15234 - L2 Version 3
Chandra X-Ray Center

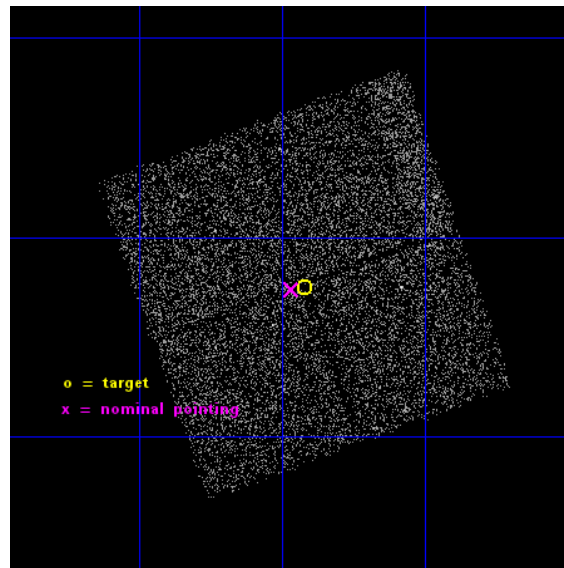
L2 Processing Date : Dec 18 2014

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1 Front

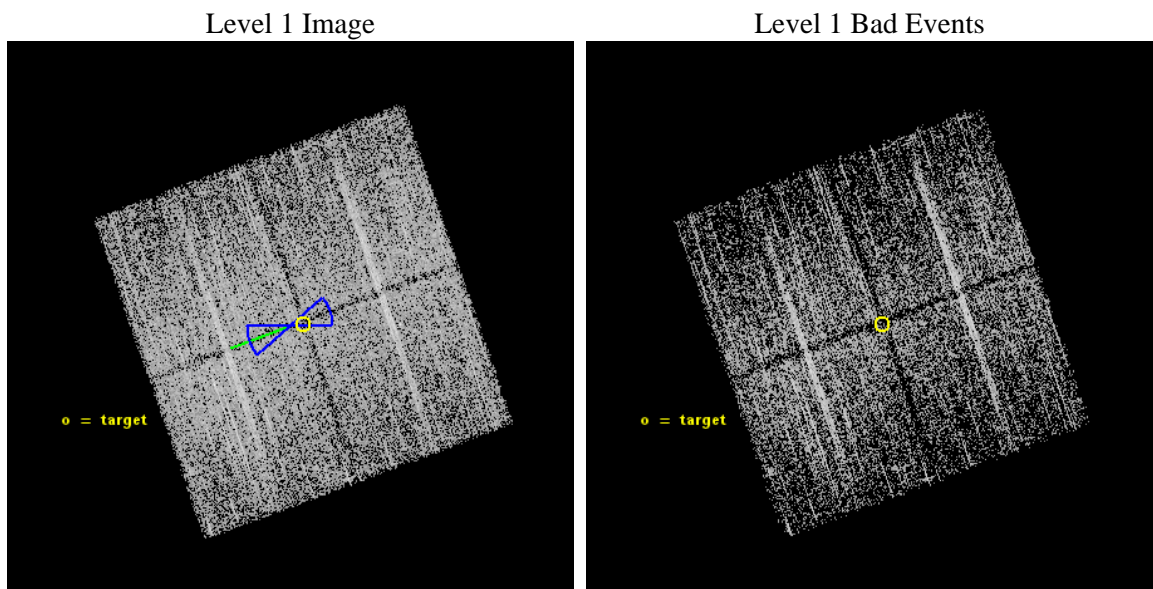
seq_num	901064	Sequence number
obs_id	15234	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.60537	Observer's specified target RA [deg]
dec_targ	2.625135	Observer's specified target Dec [deg]
ra_nom	150.616711	Nominal RA [deg]
dec_nom	2.623374	Nominal Dec [deg]
roll_nom	250.20808	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5697.8000438213	Sum of GTIs [s]
livetime	5623.3540915894	Livetime [s]
ontime0	5697.8000438213	Sum of GTIs [s]
ontime1	5697.8000438213	Sum of GTIs [s]
ontime2	5697.8000438213	Sum of GTIs [s]
ontime3	5697.8000438213	Sum of GTIs [s]
l2events	15745	Number of level 2 events



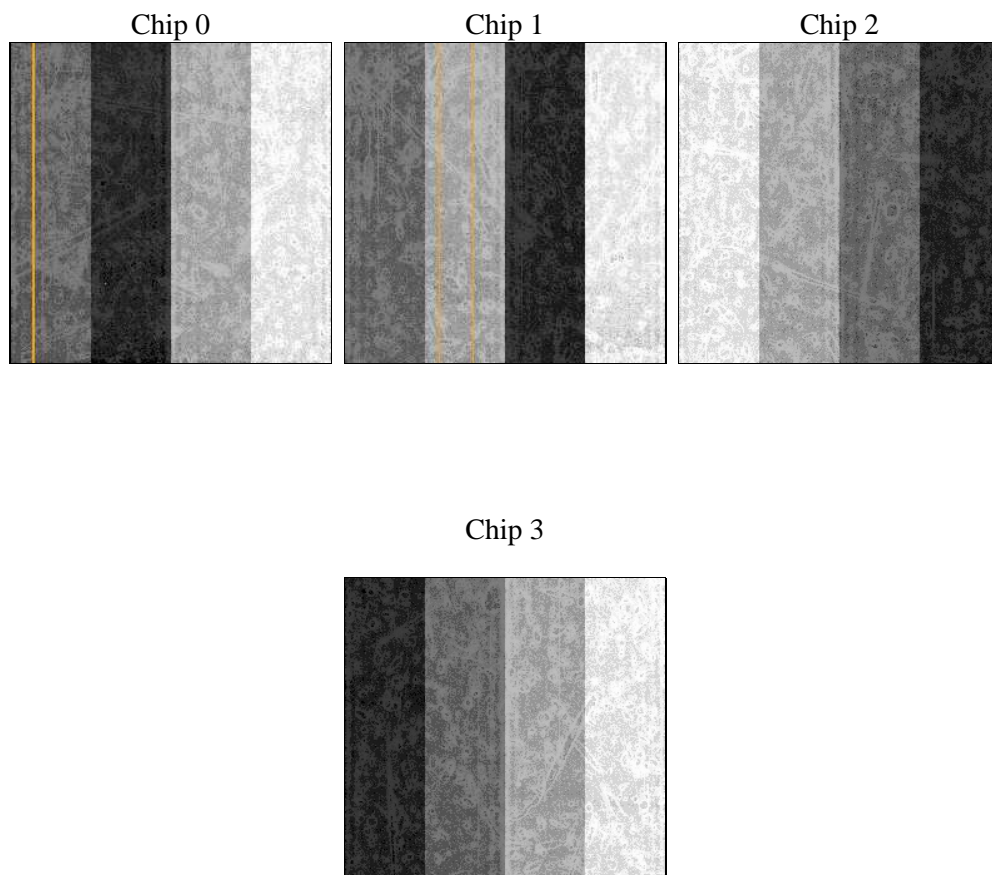
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	49567.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	5697.8000438213	Sum of GTIs [s]
caldsver	4.6.5	 	ontime0	5697.8000438213	Sum of GTIs [s]
date	2014-12-19T01:37:03	Date and time of file creation	ontime1	5697.8000438213	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5697.8000438213	Sum of GTIs [s]
			ontime3	5697.8000438213	Sum of GTIs [s]
			l1events	146926	Number of level 1 events

2.1.4 Events

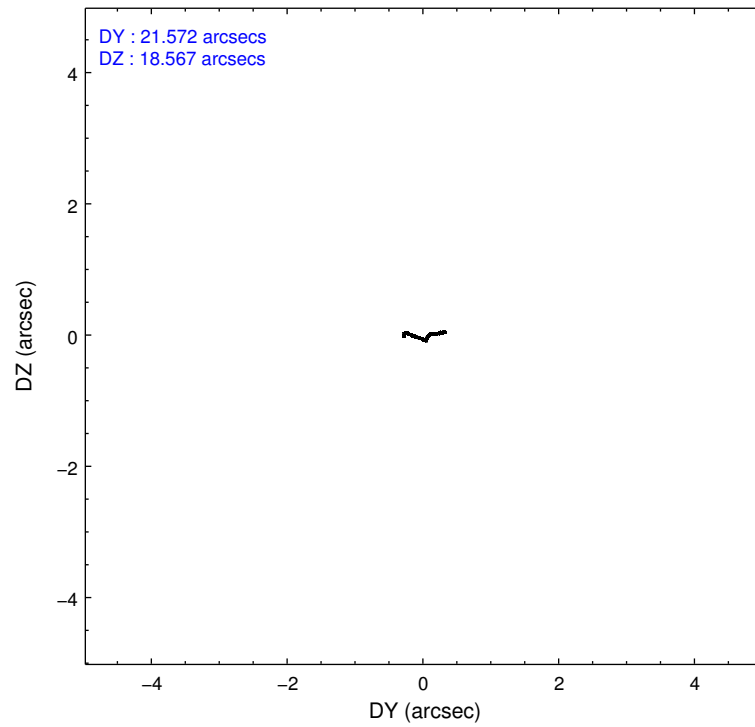
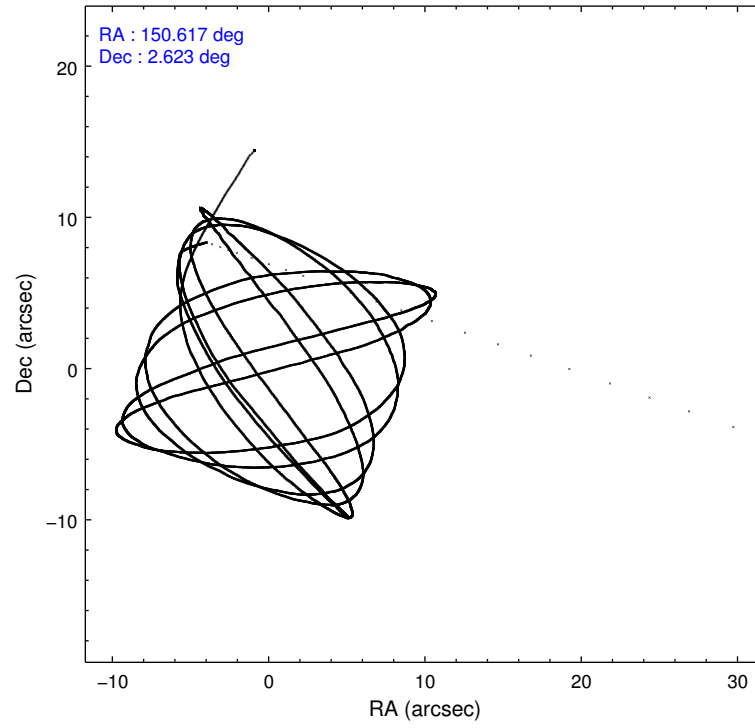
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	34461	36145	39036	37284
rejected events	29623	30863	34237	33026
rejected %	85%	85%	87%	88%

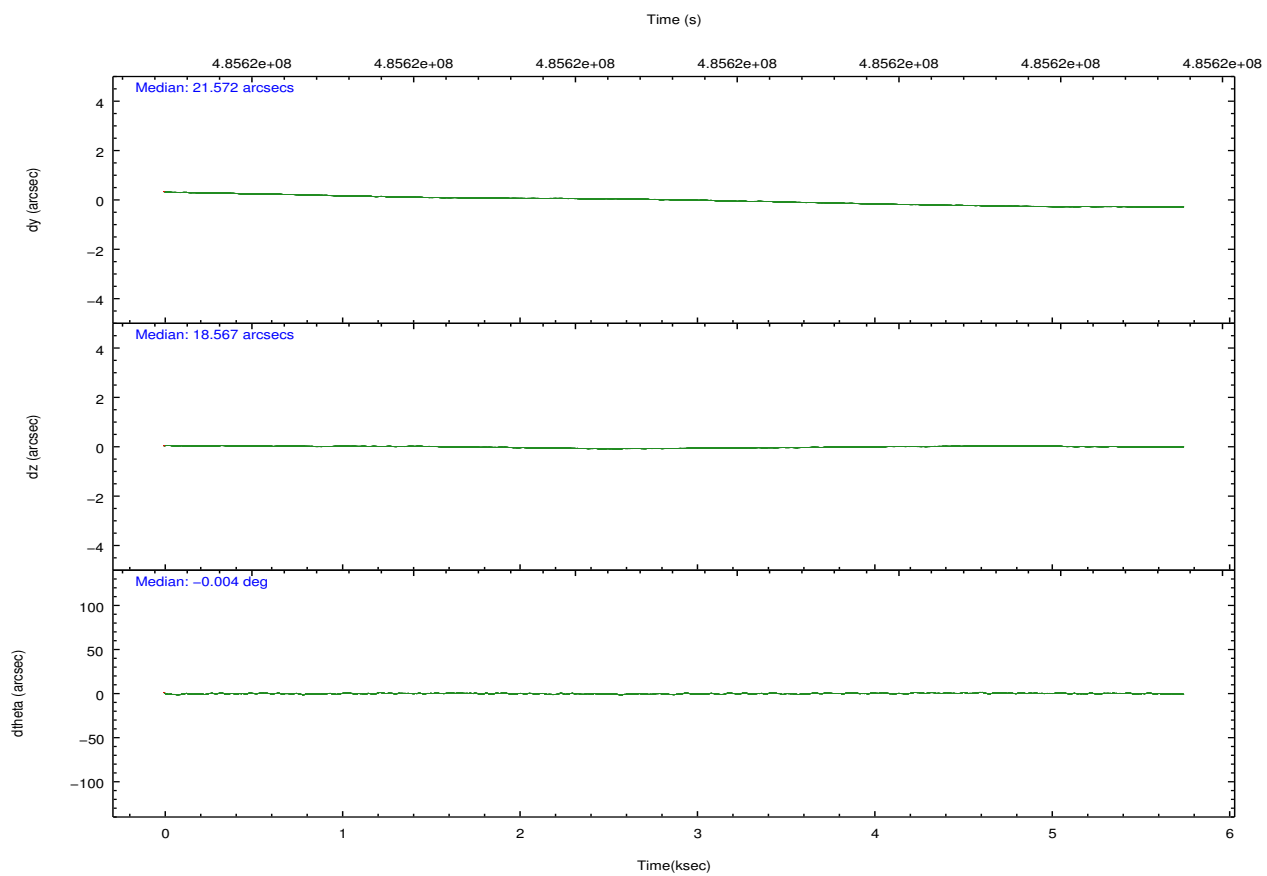
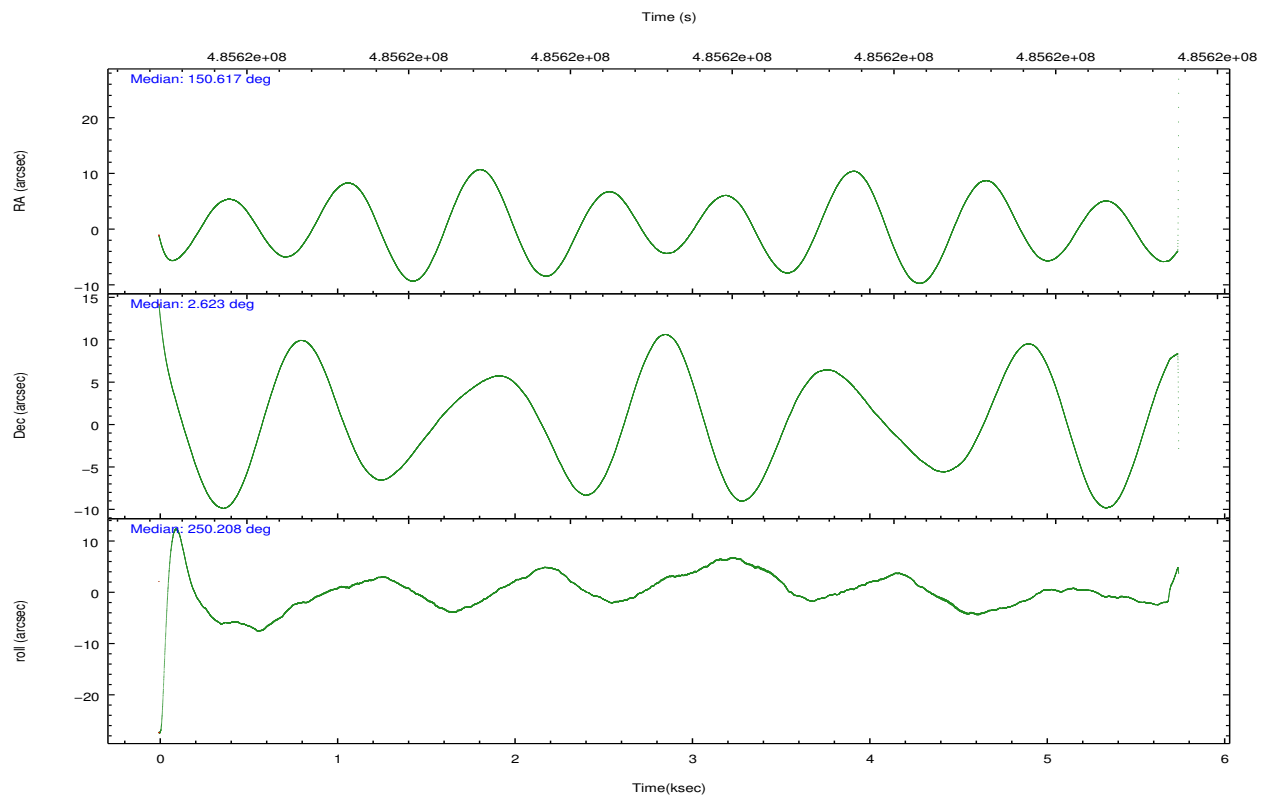
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1985	2184	2024	1732
	5%	6%	5%	4%
grade 1 events	19	11	23	24
	0%	0%	0%	0%
grade 2 events	1109	1169	1069	872
	3%	3%	2%	2%
grade 3 events	458	462	427	395
	1%	1%	1%	1%
grade 4 events	416	475	427	449
	1%	1%	1%	1%
grade 5 events	1203	1315	1174	1433
	3%	3%	3%	3%
grade 6 events	897	1026	873	829
	2%	2%	2%	2%
grade 7 events	28374	29503	33019	31550
	82%	81%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	150.611761	150.6167098100186	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.650475	2.623372403488823	Alternating exposures requested	N	N
[deg] Pointing Roll	249.999711	250.2080788451746	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	250.000000	250.000000			
[deg] Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	485615871.184000	485614733.67754			
Observation start date	2013-05-22T13:16:44	2013-05-22T12:58:53			
[s] Observation end time (MET)	485665438.184000	485621497.65291			
Observation end date	2013-05-23T03:02:51	2013-05-22T14:51:37			
Read mode	TIMED	TIMED			

2.3 Aspect



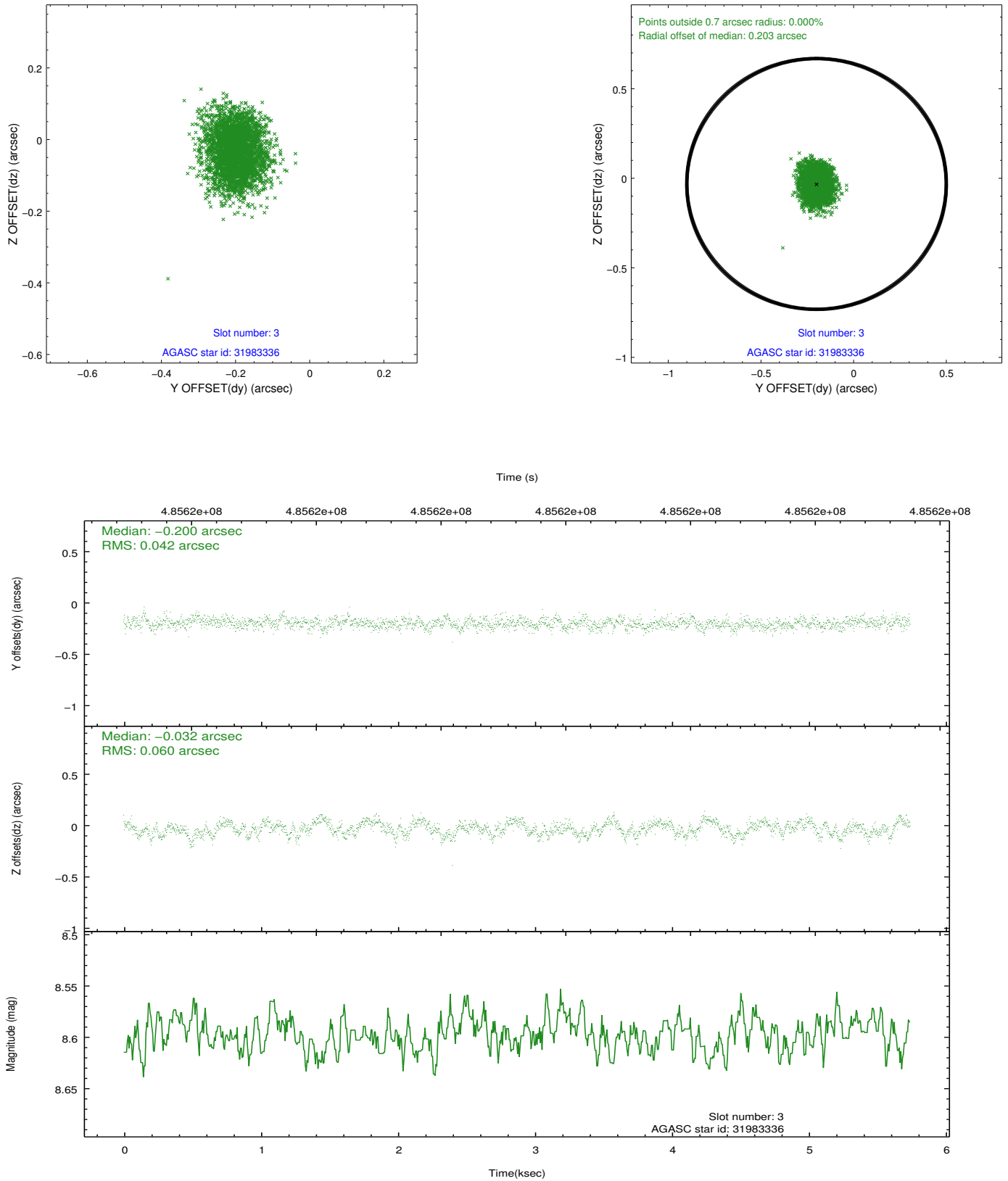


Slot Statistics

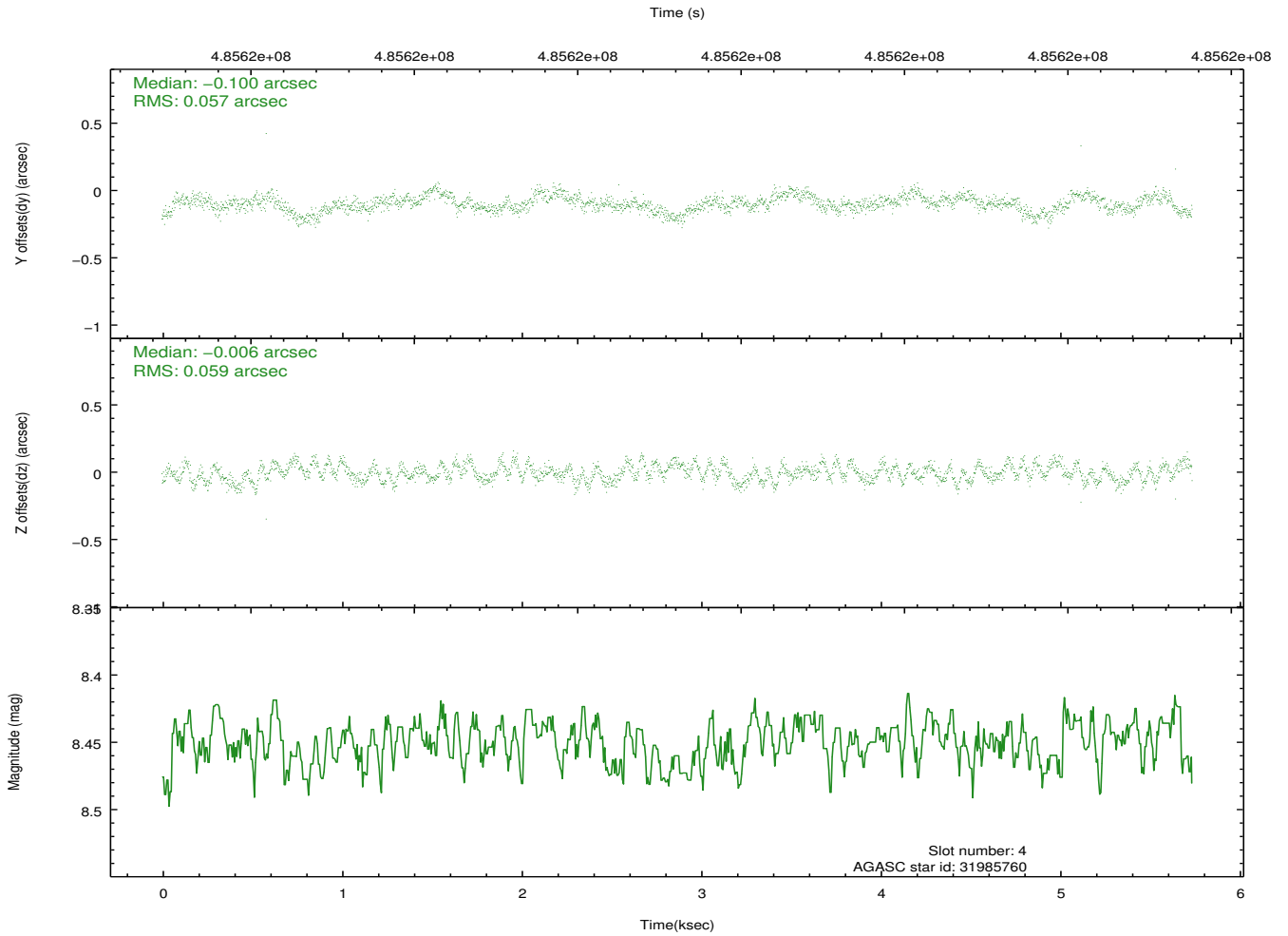
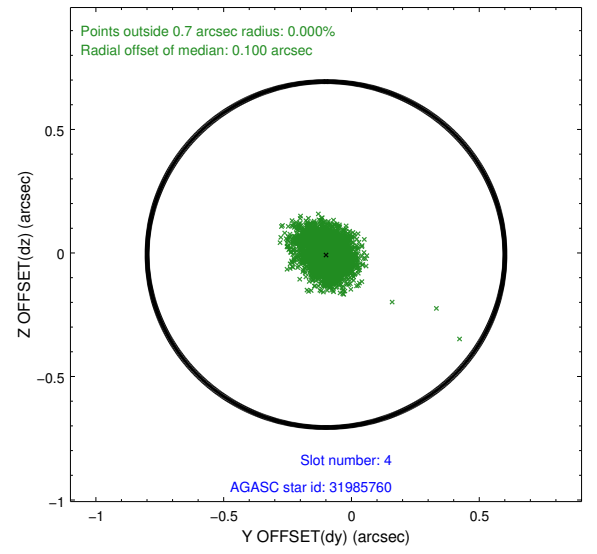
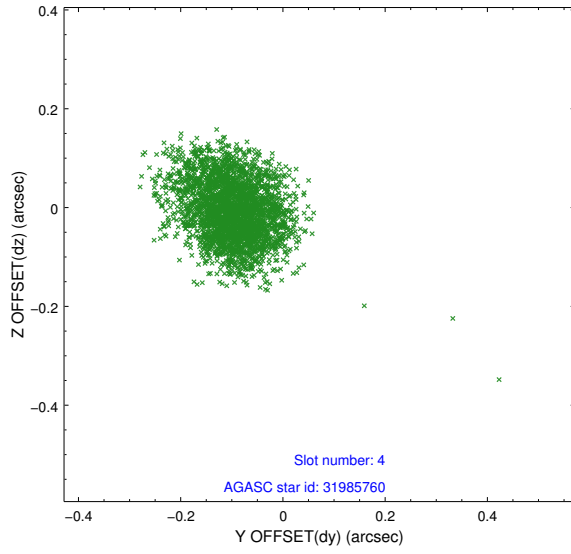
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.09	1401	0.040	0.032	0.007	0.013	0.000000	0.000000	917.79	-842.19
1	FID		ACIS-I-5	7.08	1400	-0.267	0.039	0.007	0.011	0.000000	0.000000	-1830.11	1054.70
2	FID		ACIS-I-6	7.09	1401	0.135	-0.000	0.007	0.013	0.000000	0.000000	382.22	1700.41
3	GUIDE	used	31983336	8.60	2801	-0.200	-0.032	0.078	0.125	150.429924	2.291234	1438.67	-172.14
4	GUIDE	used	31985760	8.45	2797	-0.100	-0.006	0.088	0.137	150.924581	2.094394	1496.90	1742.23
5	GUIDE	used	32374896	9.21	2728	0.017	-0.213	0.107	0.171	150.682269	2.512794	379.89	408.77
6	GUIDE	used	32387968	9.20	2802	0.062	0.091	0.137	0.218	150.106347	3.119099	-964.30	-2283.92
7	GUIDE	used	31986152	8.99	2797	0.214	0.149	0.091	0.145	150.840314	2.057585	1724.51	1501.73

2.4 Star Slots

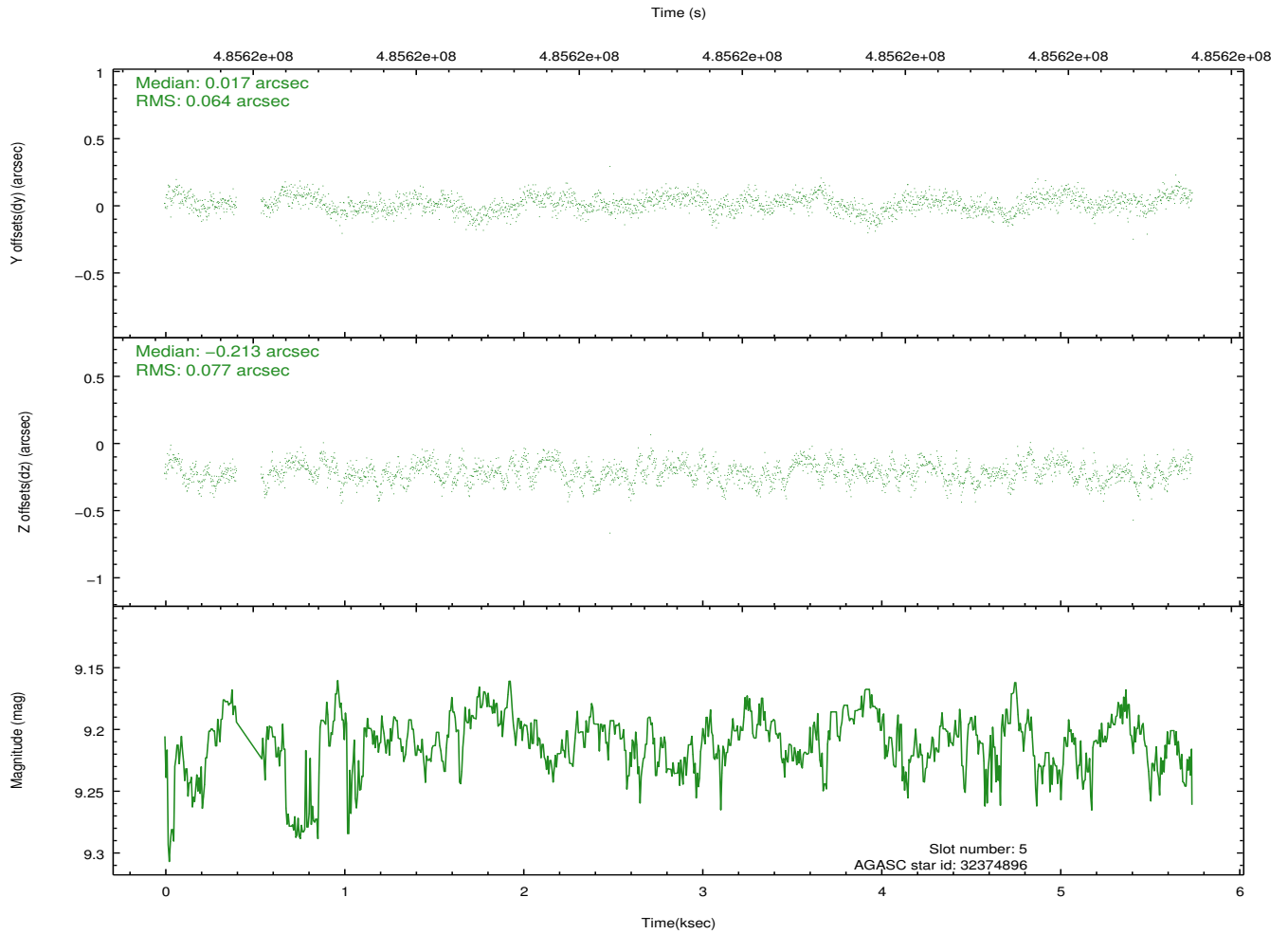
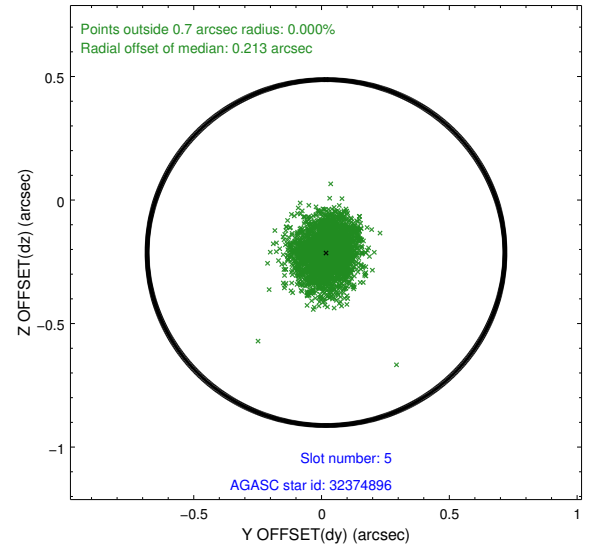
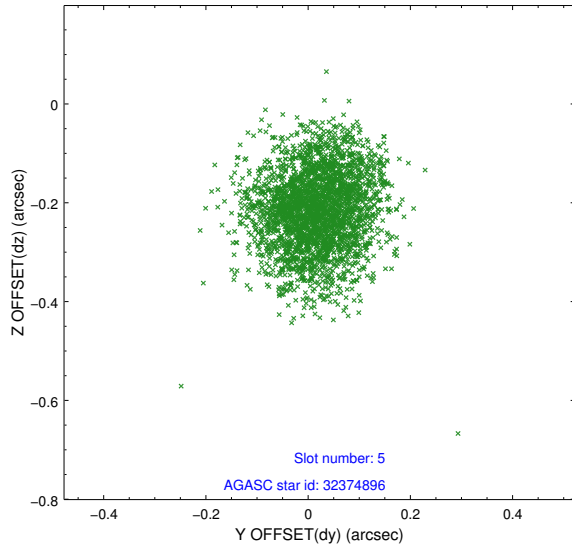
2.4.1 Slot 3



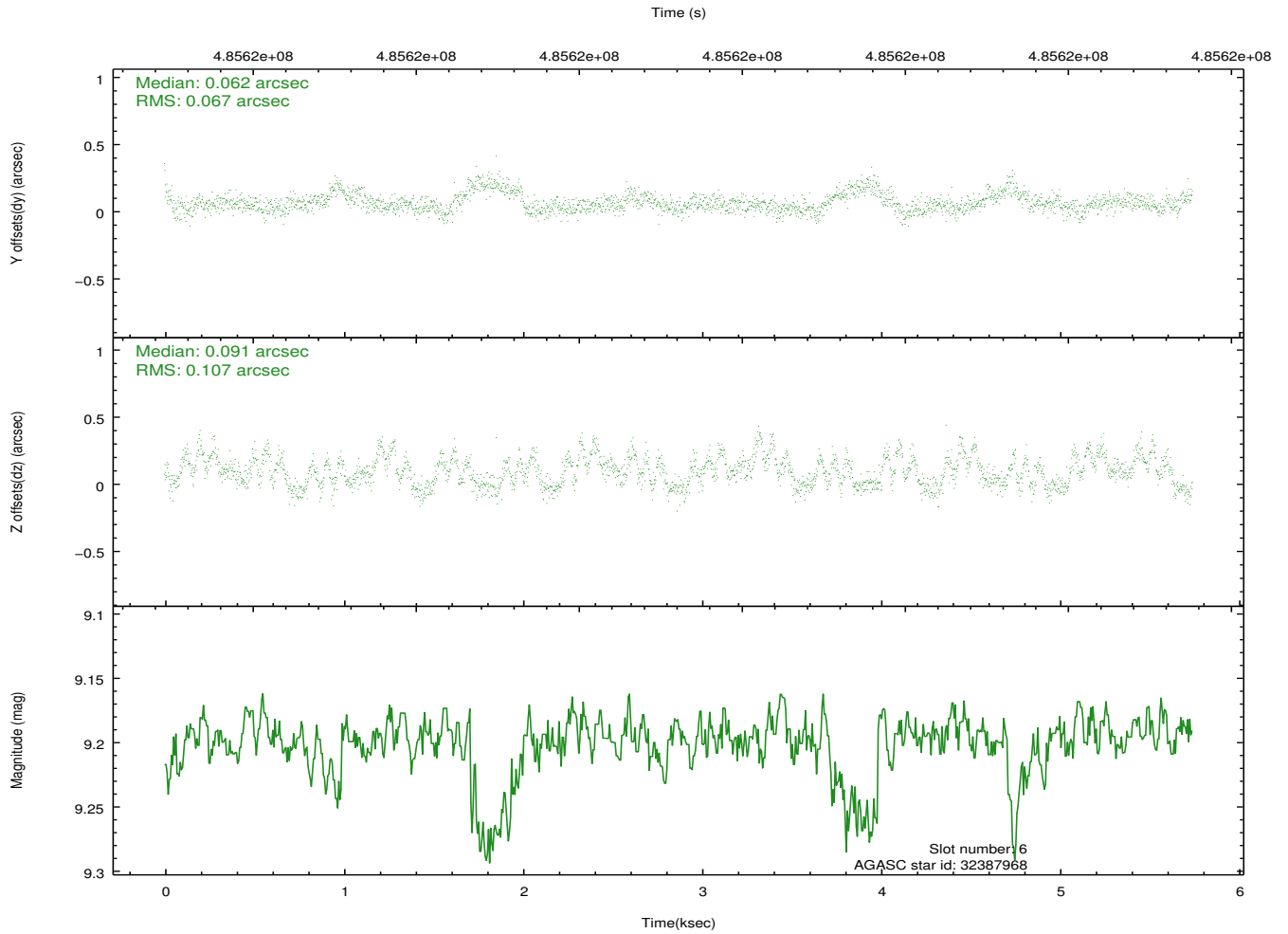
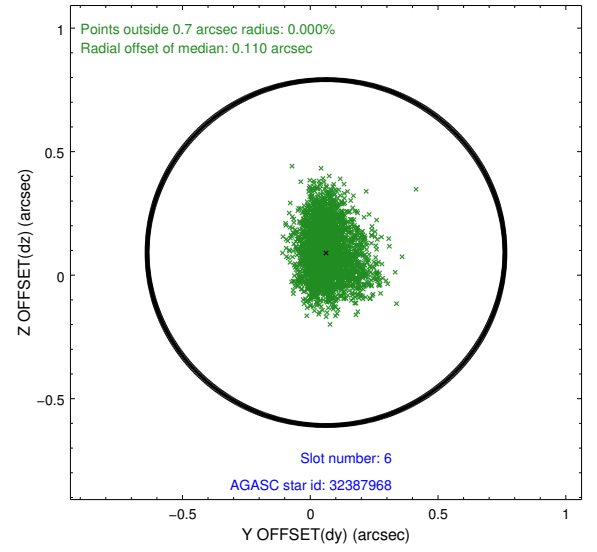
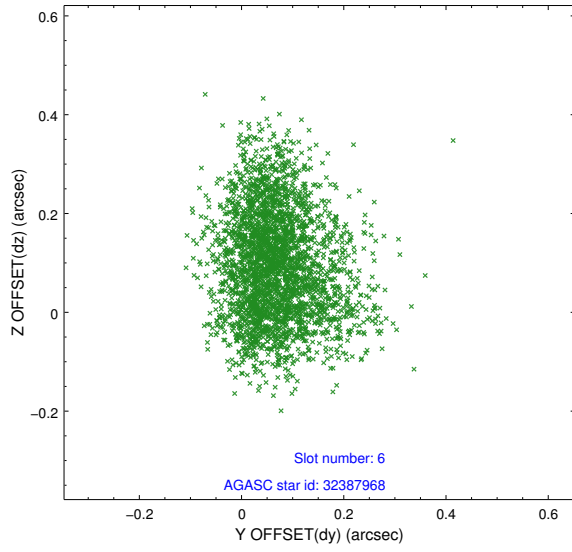
2.4.2 Slot 4



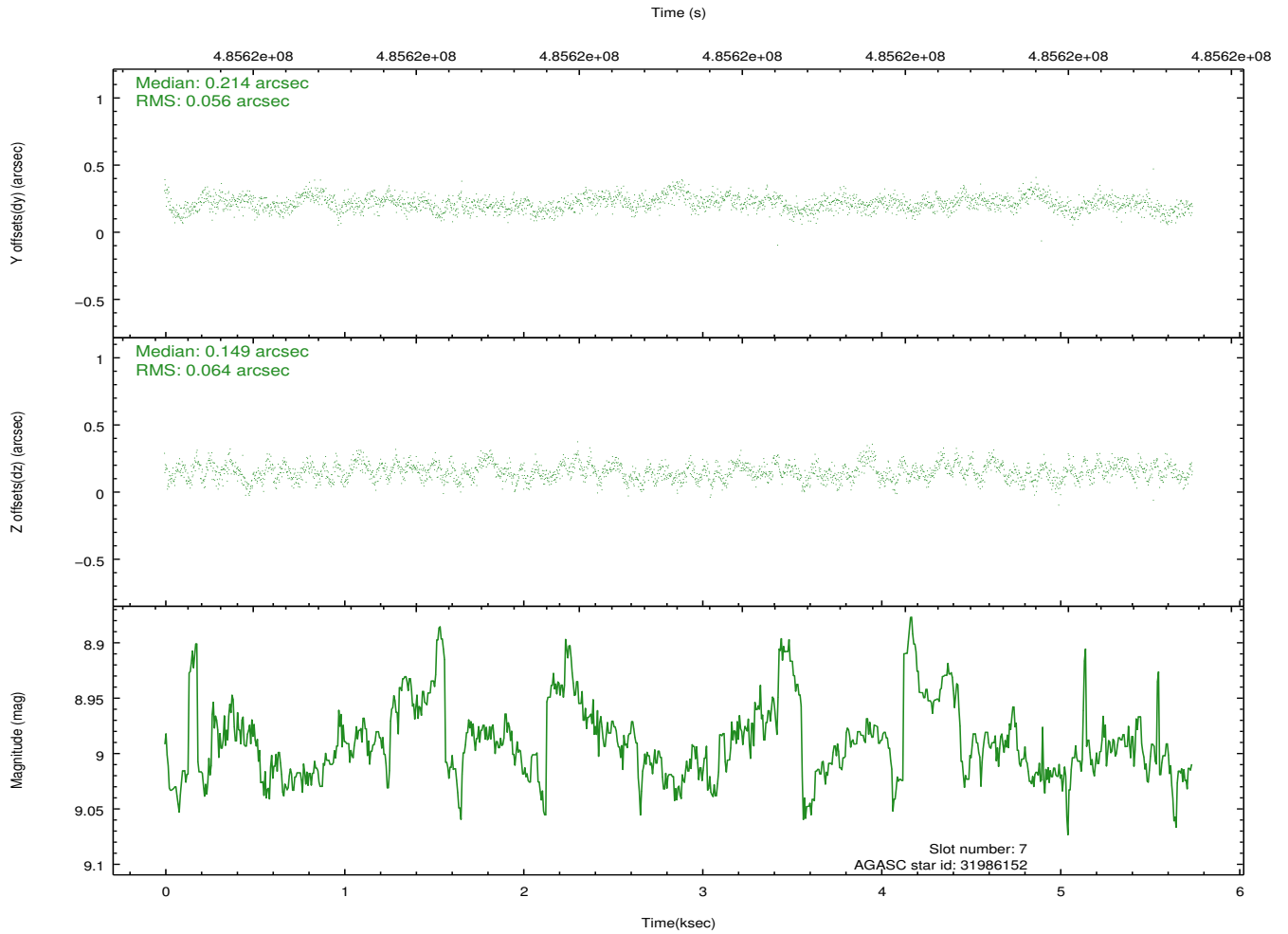
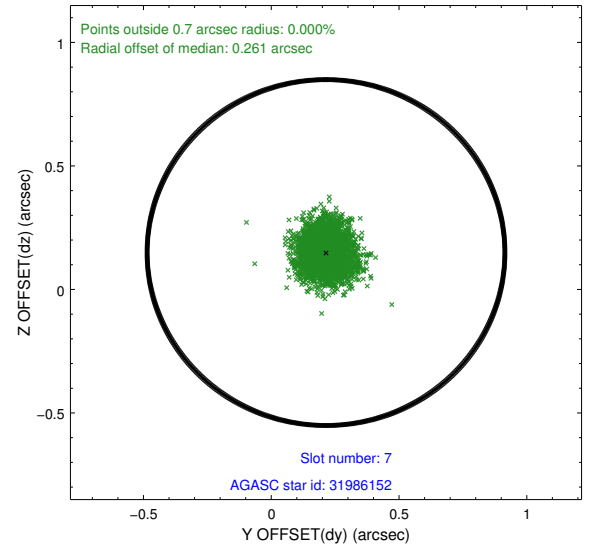
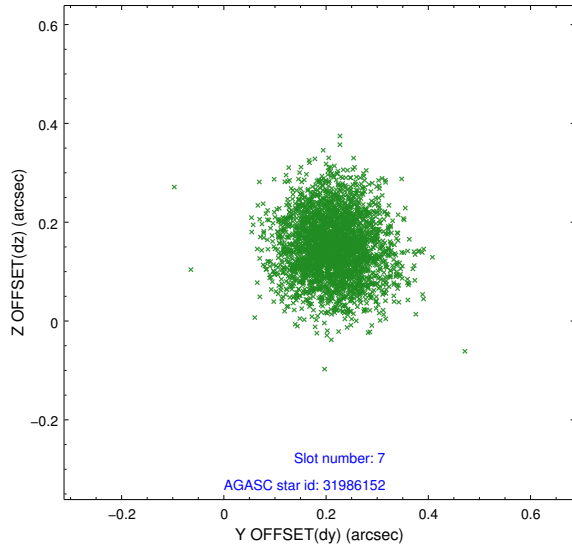
2.4.3 Slot 5



2.4.4 Slot 6

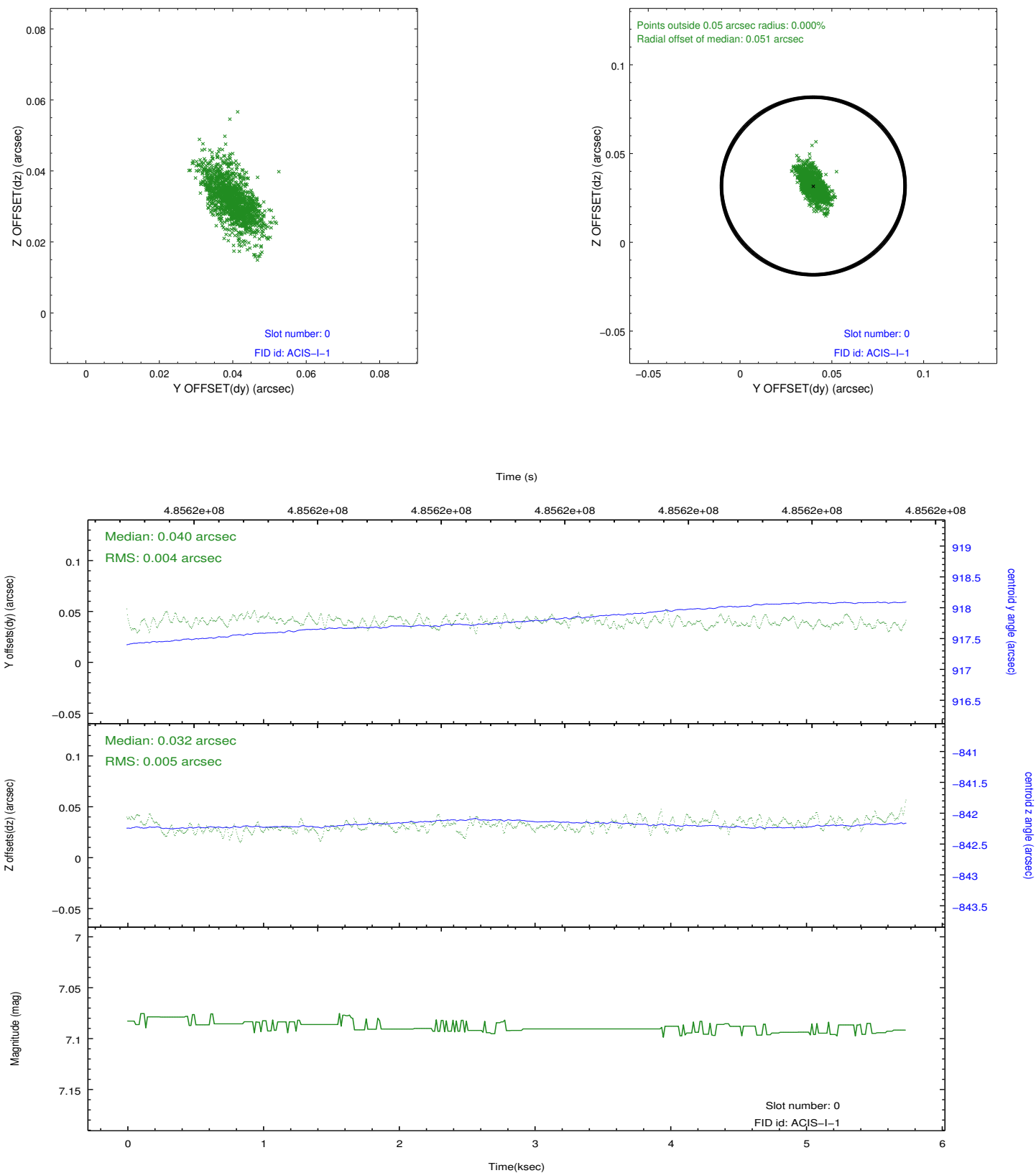


2.4.5 Slot 7

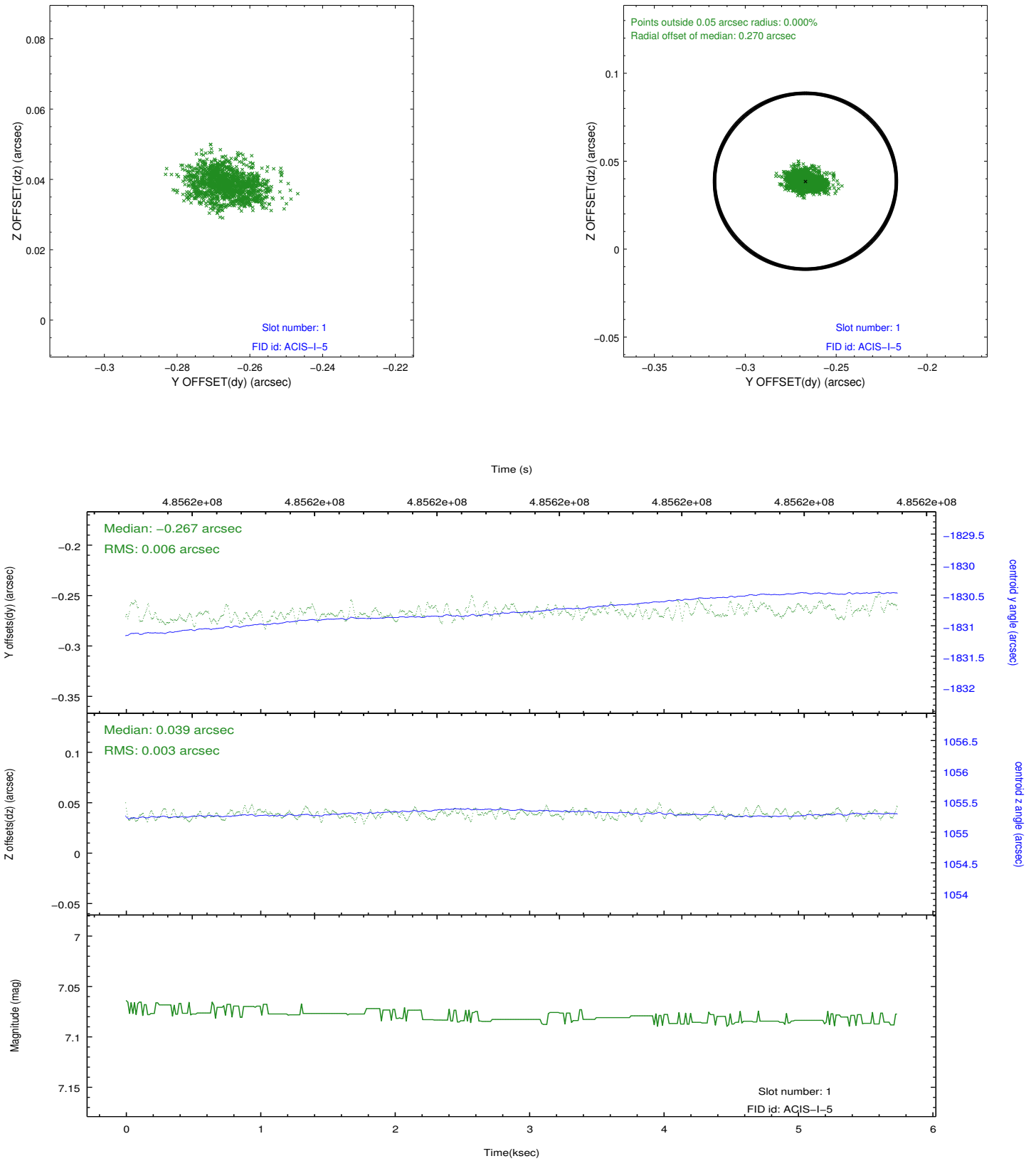


2.5 FID Slots

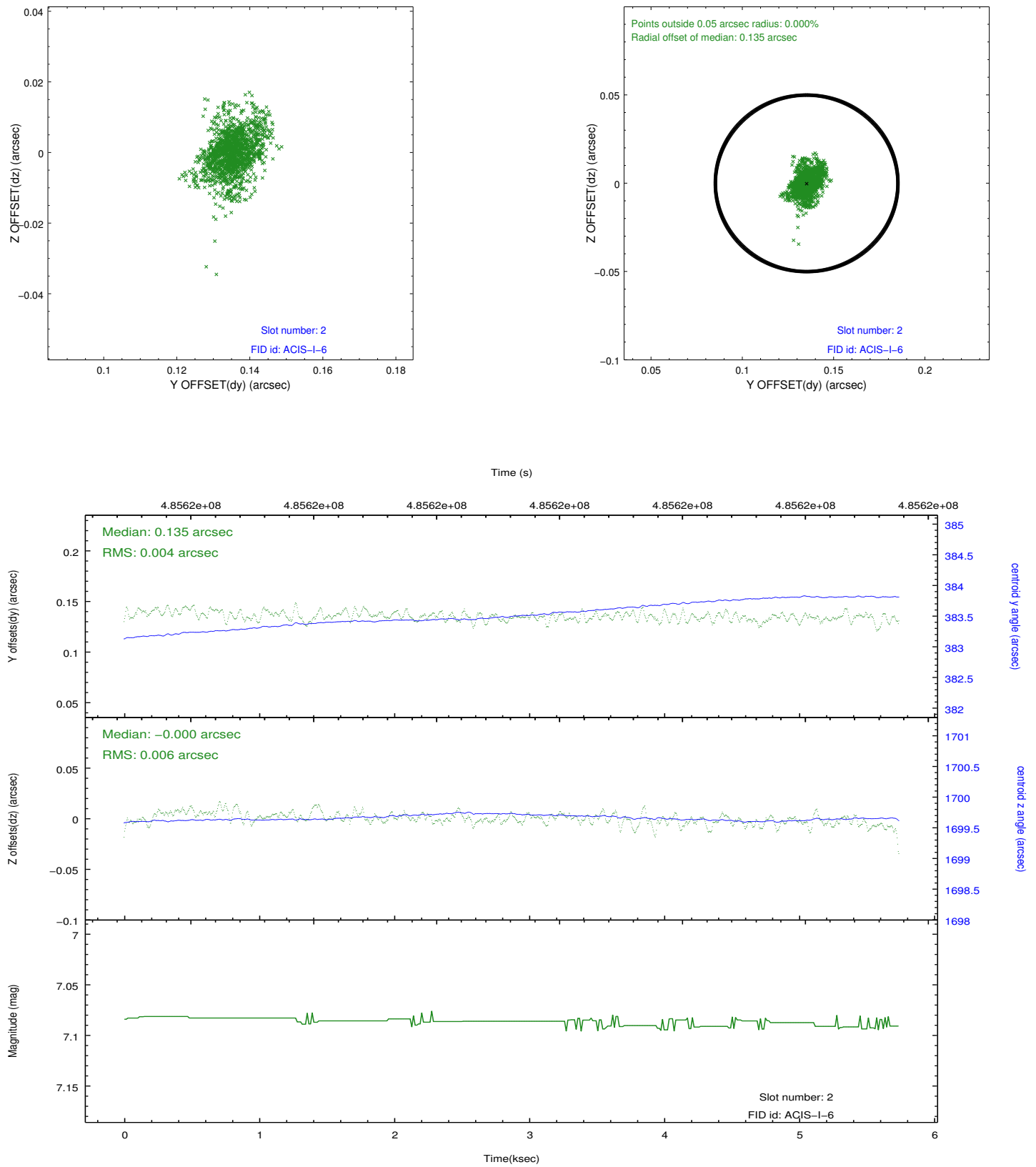
2.5.1 Slot 0



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)	2014.12.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.5118000423908

A.2 Comments

Roll preference met.

Charge time for this observation remains at previous value of 5.51

ksec,

although with the current processing the charge time would have been 5.69

ksec.

This observation was interrupted by safing of the science instruments due

to high solar radiation environment. The observation was interrupted at 2013:142:14:49.

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.