

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16339 - L2 Version 2
Chandra X-Ray Center

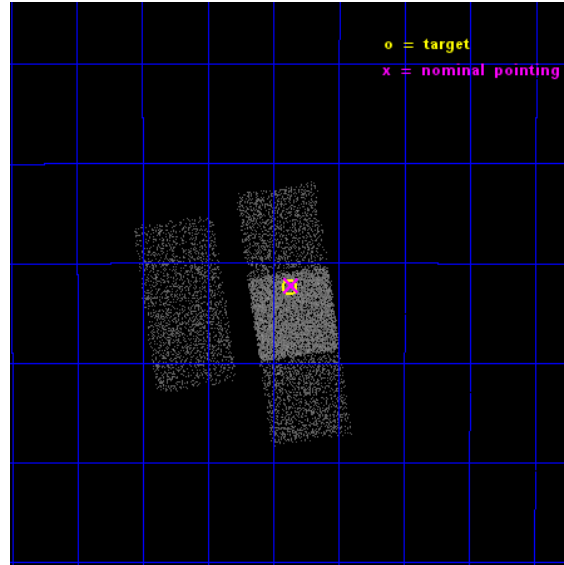
L2 Processing Date : Dec 9 2014

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1 Front

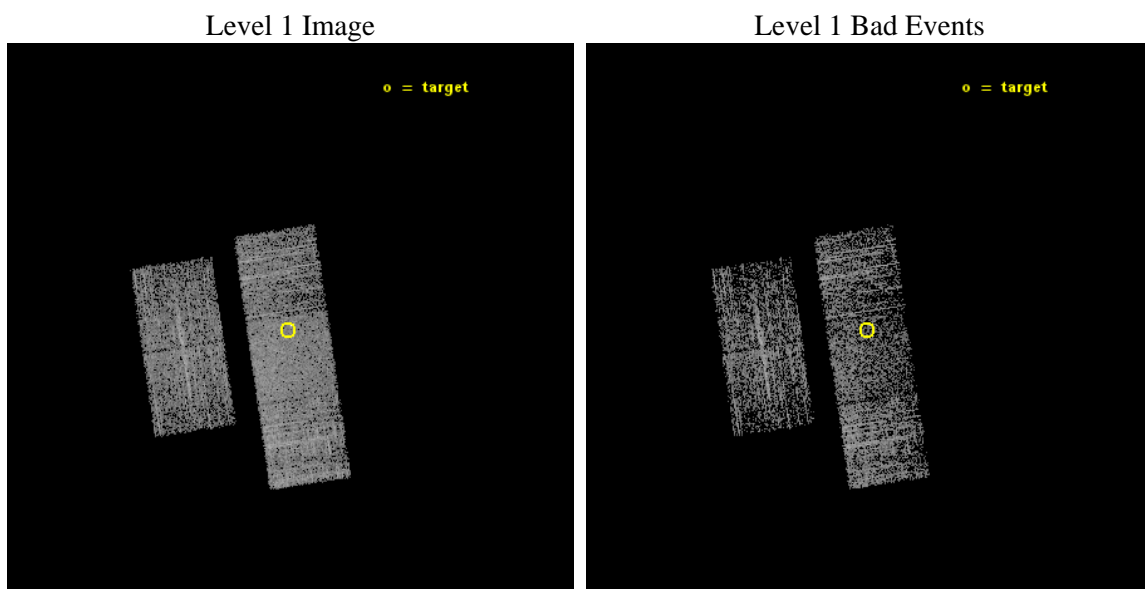
seq_num	200965	Sequence number
obs_id	16339	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	US 16025243-2402226	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	240.718333	Observer's specified target RA [deg]
dec_targ	-24.039611	Observer's specified target Dec [deg]
ra_nom	240.71571379431	Nominal RA [deg]
dec_nom	-24.037485586676	Nominal Dec [deg]
roll_nom	81.468516190726	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2773.2705168724	Sum of GTIs [s]
livetime	2737.0356959174	Livetime [s]
ontime2	2773.1063369513	Sum of GTIs [s]
ontime3	2773.1884368658	Sum of GTIs [s]
ontime6	2773.2294768691	Sum of GTIs [s]
ontime7	2773.2705168724	Sum of GTIs [s]
ontime8	2763.724296689	Sum of GTIs [s]
l2events	14028	Number of level 2 events



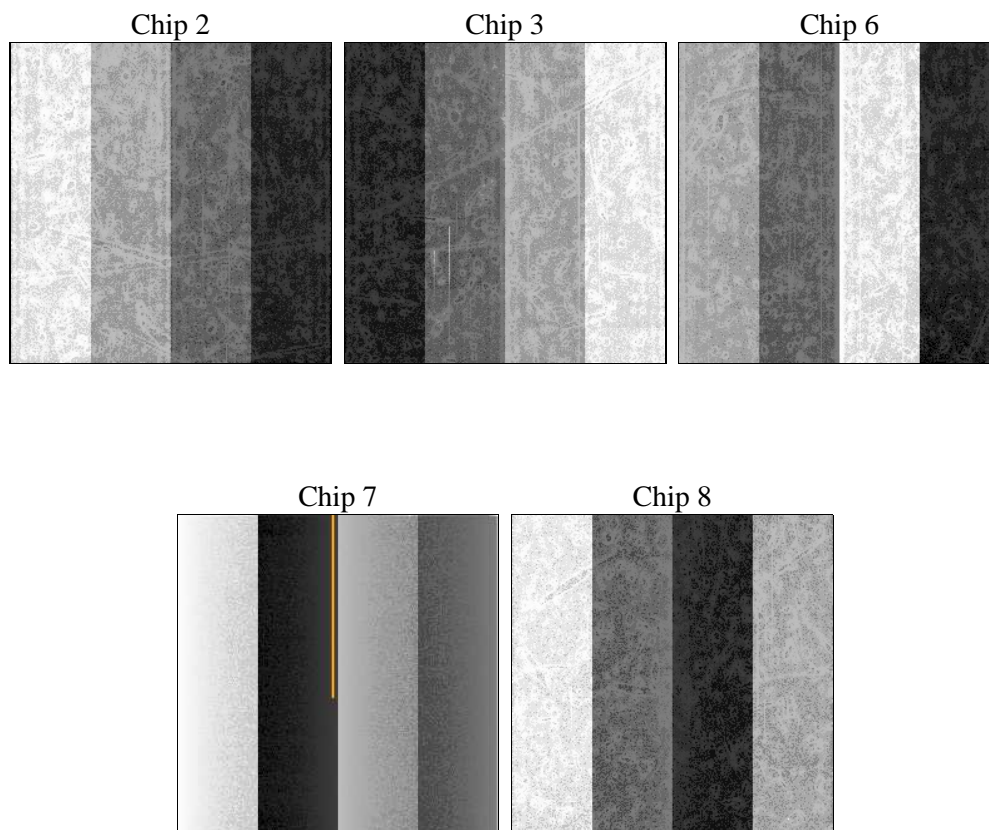
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	2773.2705168724	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	2773.1063369513	Sum of GTIs [s]
date	2014-12-09T21:55:44	Date and time of file creation	ontime3	2773.1884368658	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2773.2294768691	Sum of GTIs [s]
			ontime7	2773.2705168724	Sum of GTIs [s]
			ontime8	2763.724296689	Sum of GTIs [s]
			l1events	76721	Number of level 1 events

2.1.4 Events

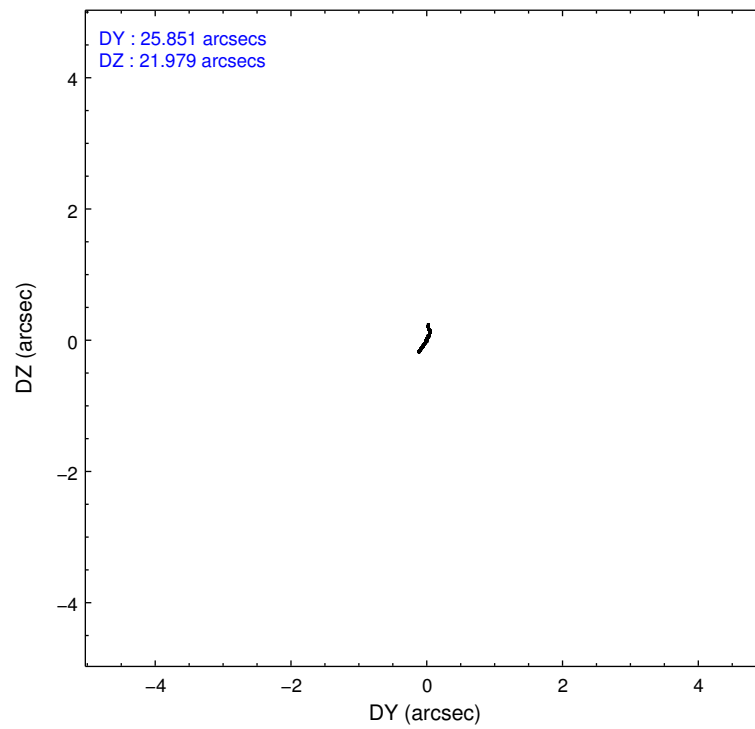
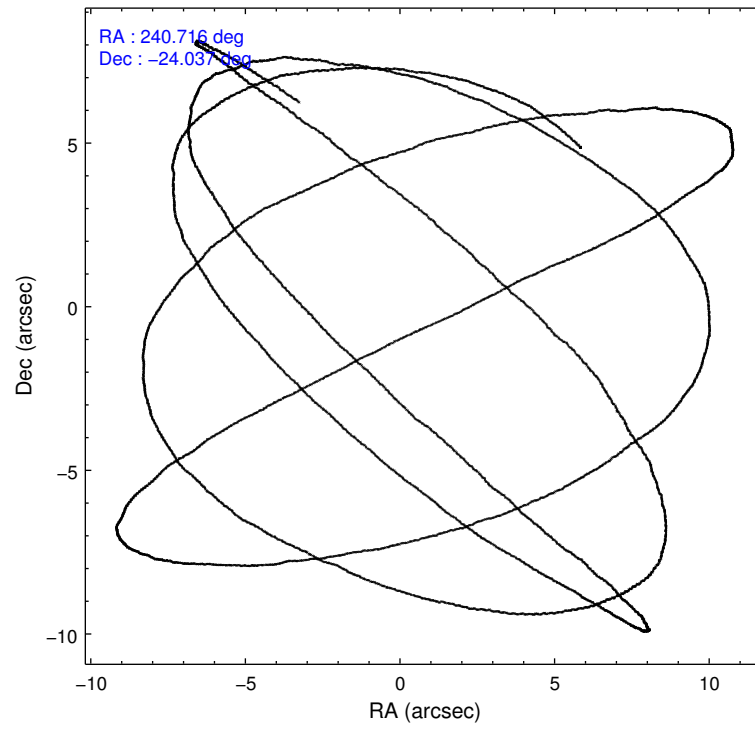
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	12167	13122	13100	18623	19709
rejected events	10706	11628	11396	10107	15035
rejected %	87%	88%	86%	54%	76%

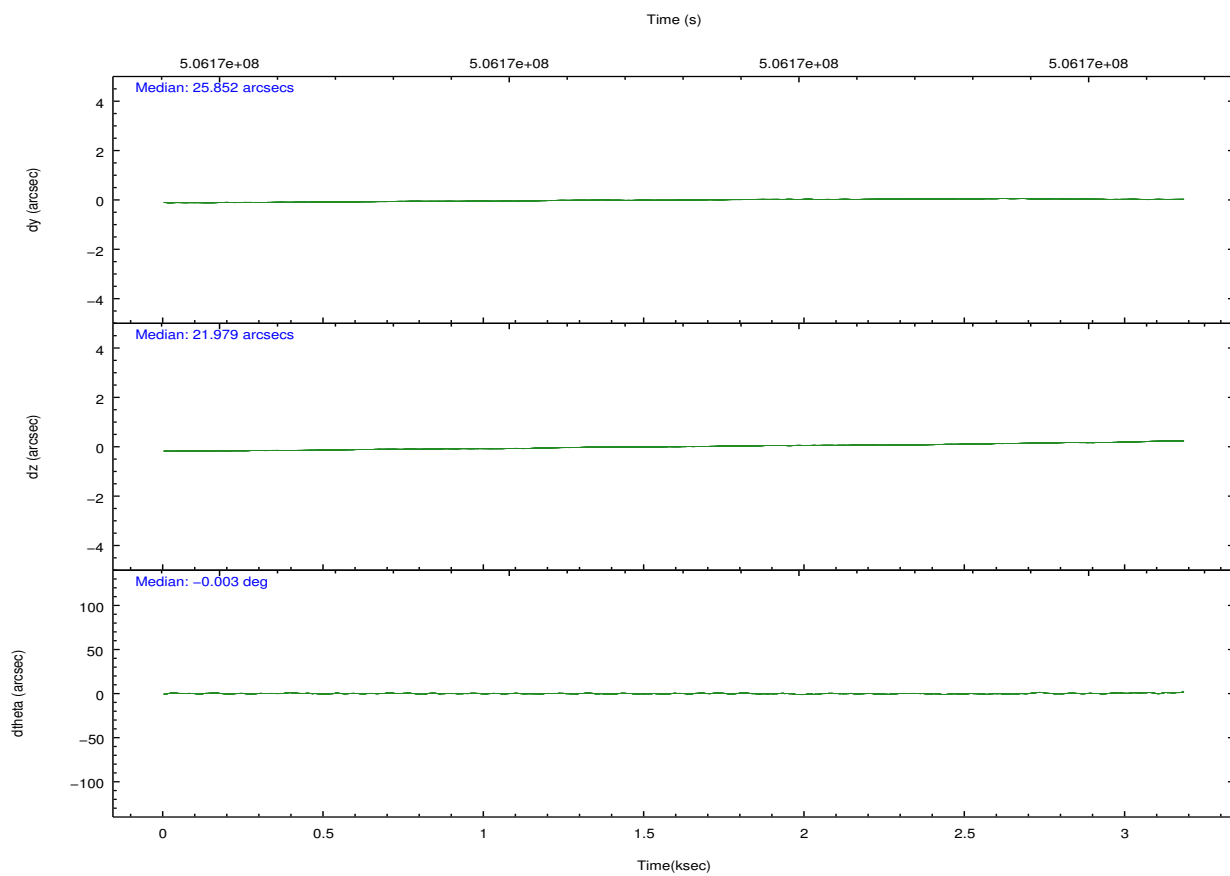
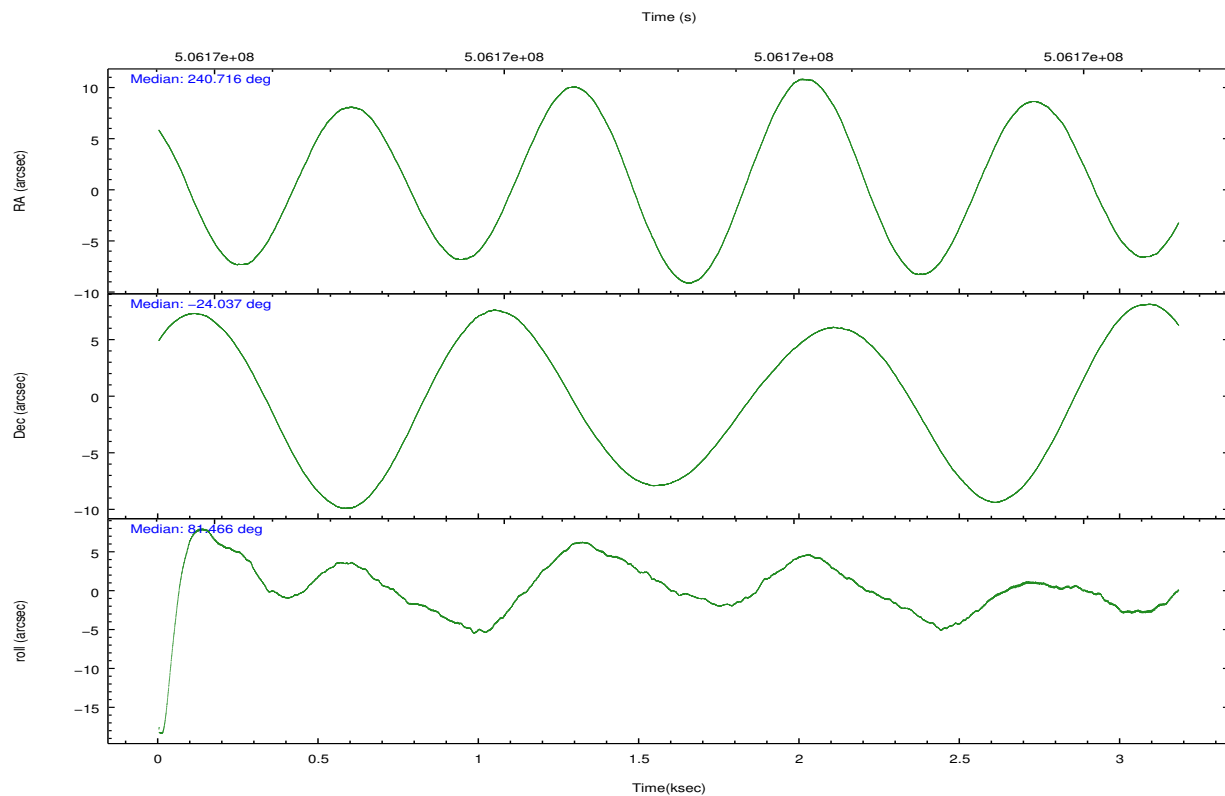
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	525	535	618	878	1391
	4%	4%	4%	4%	7%
grade 1 events	4	5	8	35	17
	0%	0%	0%	0%	0%
grade 2 events	363	335	368	1769	1040
	2%	2%	2%	9%	5%
grade 3 events	145	157	165	722	480
	1%	1%	1%	3%	2%
grade 4 events	164	163	166	751	461
	1%	1%	1%	4%	2%
grade 5 events	601	713	661	1871	955
	4%	5%	5%	10%	4%
grade 6 events	264	305	388	4406	1305
	2%	2%	2%	23%	6%
grade 7 events	10101	10909	10726	8191	14060
	83%	83%	81%	43%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	240.727165	240.715713794307	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.062931	-24.03748558667632	Alternating exposures requested	N	N
[deg] Pointing Roll	81.316580	81.46851619072585	[s] Primary exposure time	0.000000	3.1
[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)	506168153.184000	506167743.18746			
Observation start date	2014-01-15T10:14:46	2014-01-15T10:09:03			
[s] Observation end time (MET)	506171153.184000	506172127.62521			
Observation end date	2014-01-15T11:04:46	2014-01-15T11:22:07			
Read mode	TIMED	TIMED			

2.3 Aspect

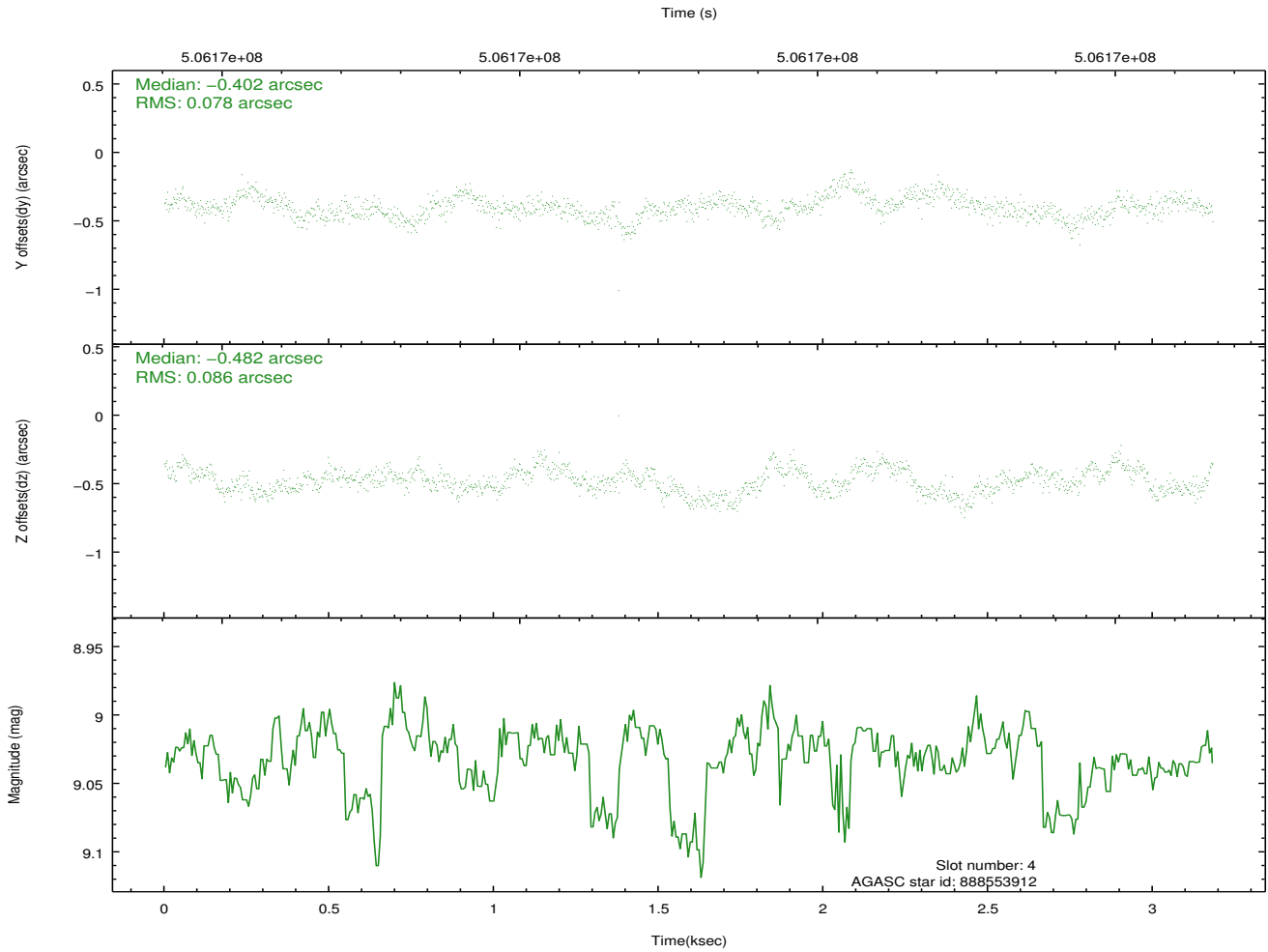
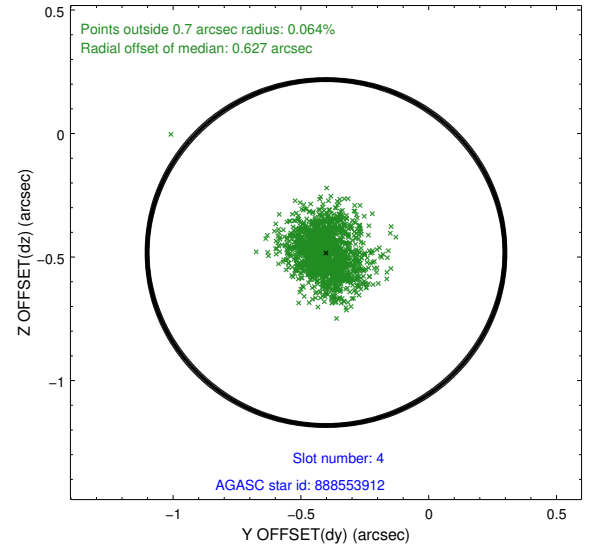
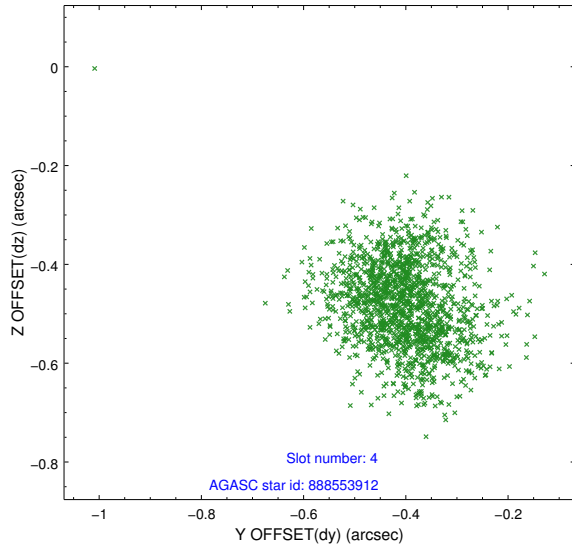




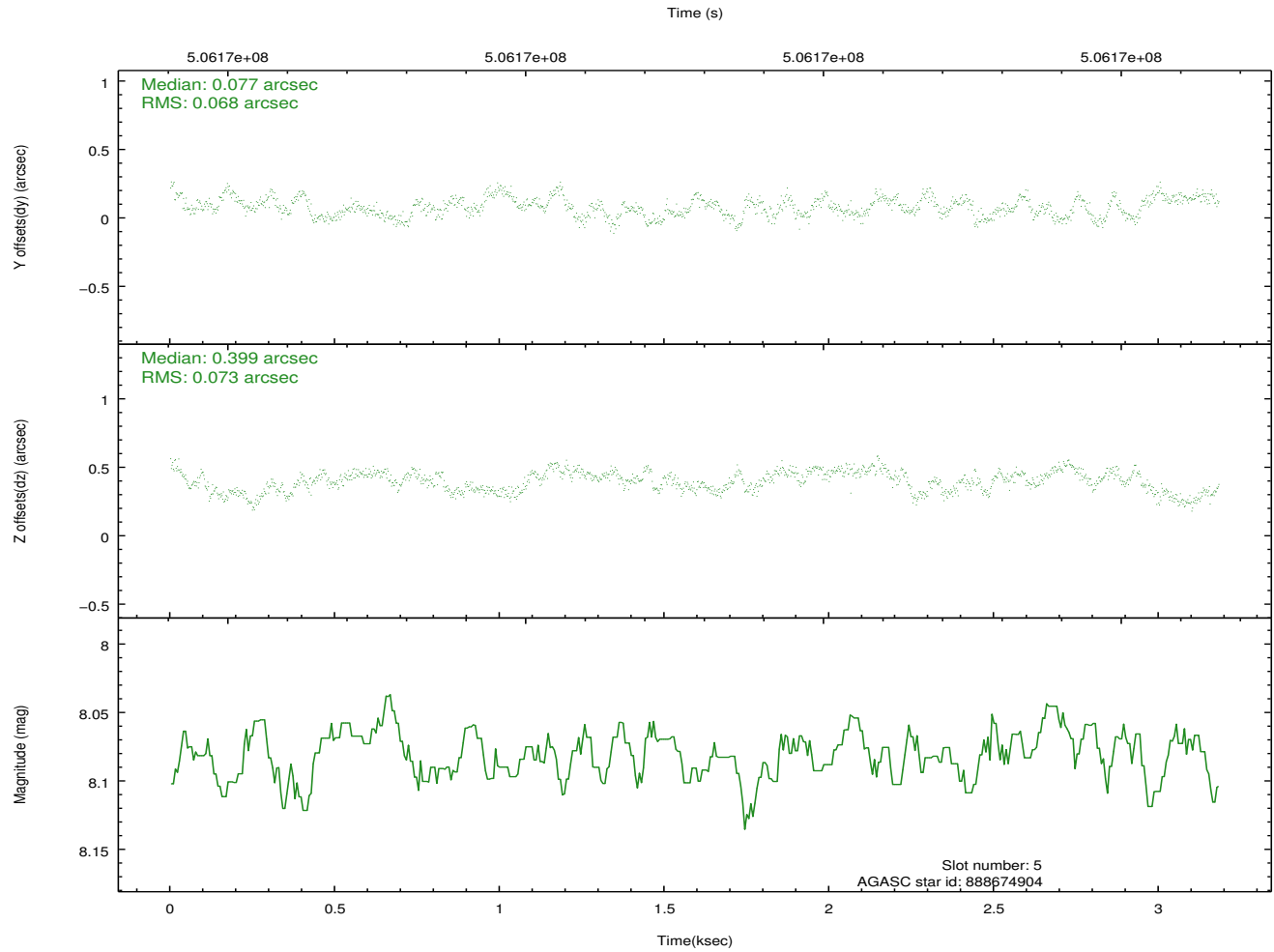
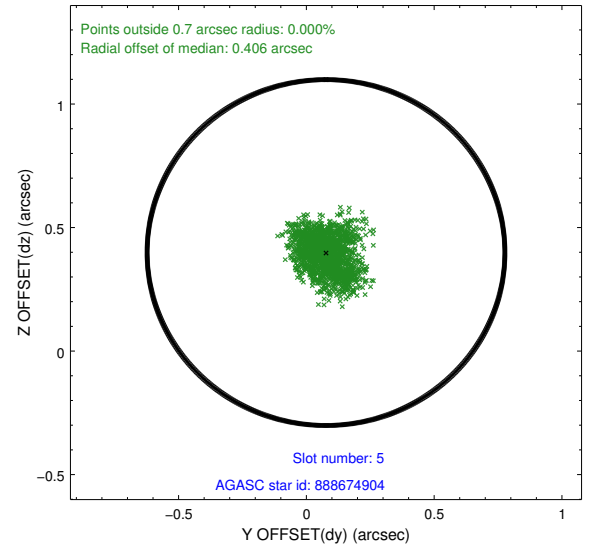
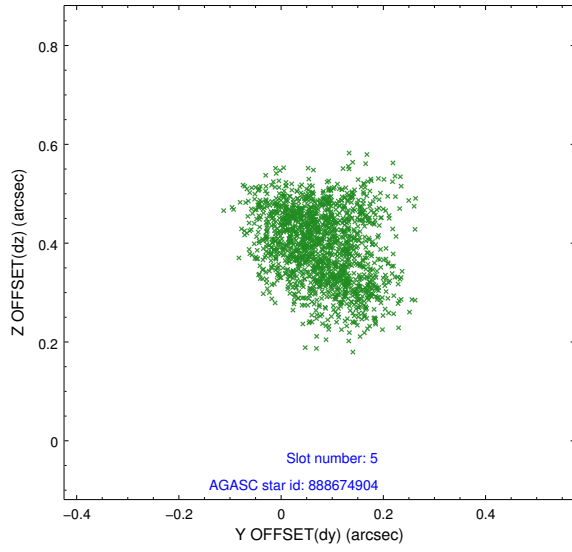
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	776	-0.156	-0.026	0.009	0.014	0.000000	0.000000	-779.27	-1743.51
1	FID		ACIS-S-4	7.04	776	0.311	0.082	0.006	0.011	0.000000	0.000000	2133.56	162.96
2	FID		ACIS-S-5	7.07	777	-0.186	-0.048	0.008	0.013	0.000000	0.000000	-1829.58	158.82
3	GUIDE	used	888548640	9.22	1551	0.167	-0.056	0.201	0.305	240.395315	-24.284108	-952.12	955.97
4	GUIDE	used	888553912	9.03	1552	-0.402	-0.482	0.124	0.199	240.644543	-23.680089	1320.15	477.21
5	GUIDE	used	888674904	8.08	1553	0.077	0.399	0.108	0.168	241.329780	-23.669126	1697.82	-1750.26
6	GUIDE	used	888678256	9.23	1553	-0.103	0.271	0.137	0.207	240.868493	-24.335346	-898.73	-607.56
7	GUIDE	used	888551576	9.24	1551	0.240	-0.129	0.127	0.193	240.675289	-24.248596	-686.85	66.54

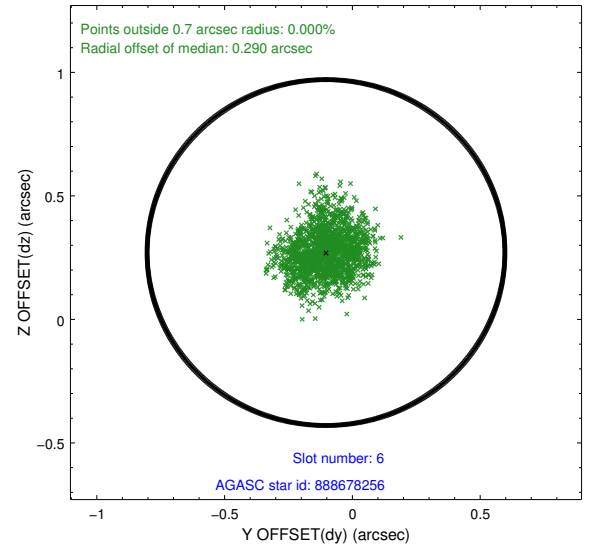
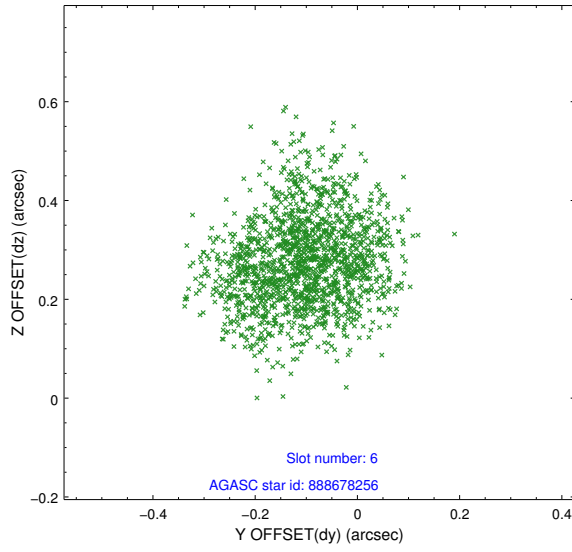
2.4.2 Slot 4



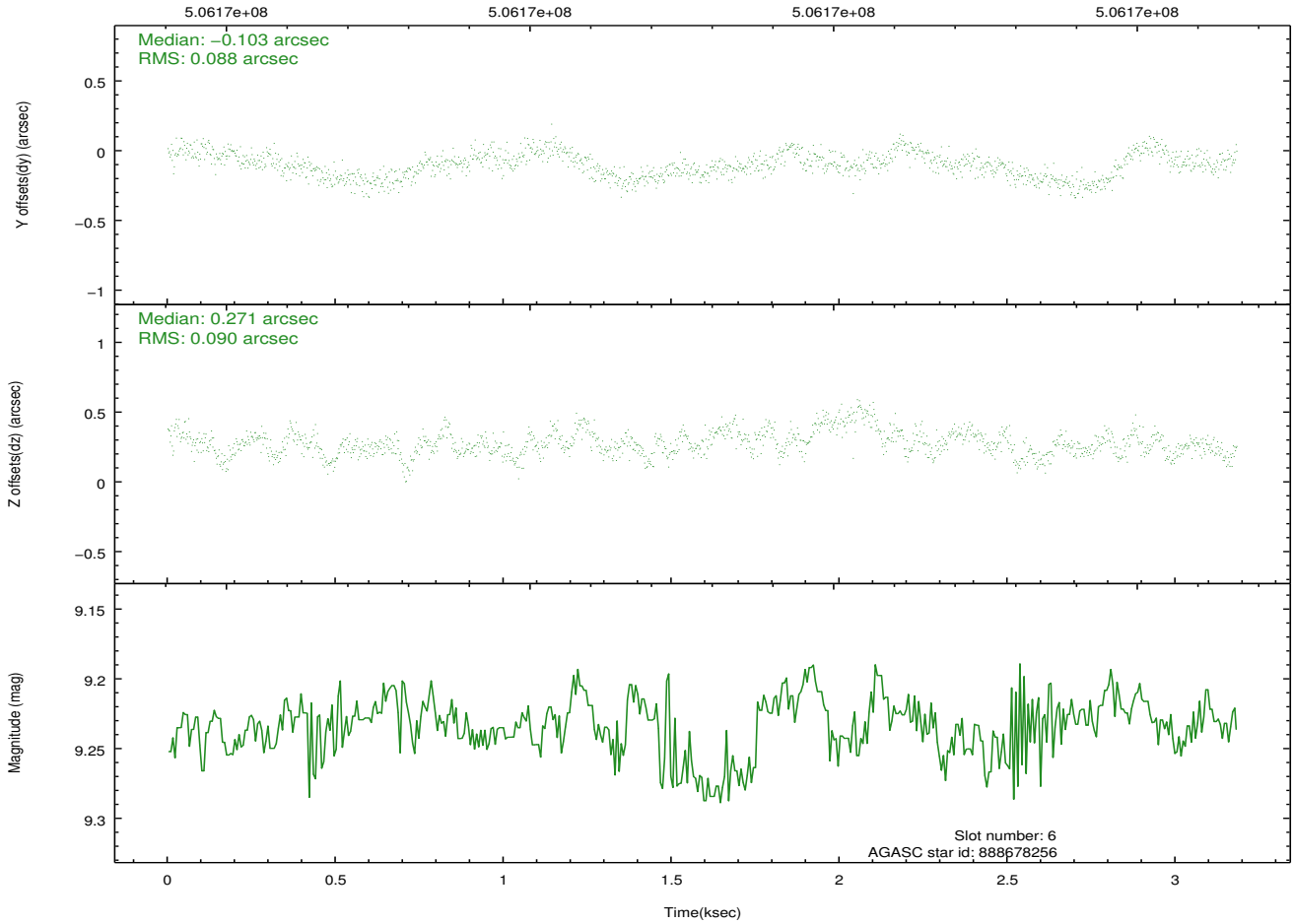
2.4.3 Slot 5



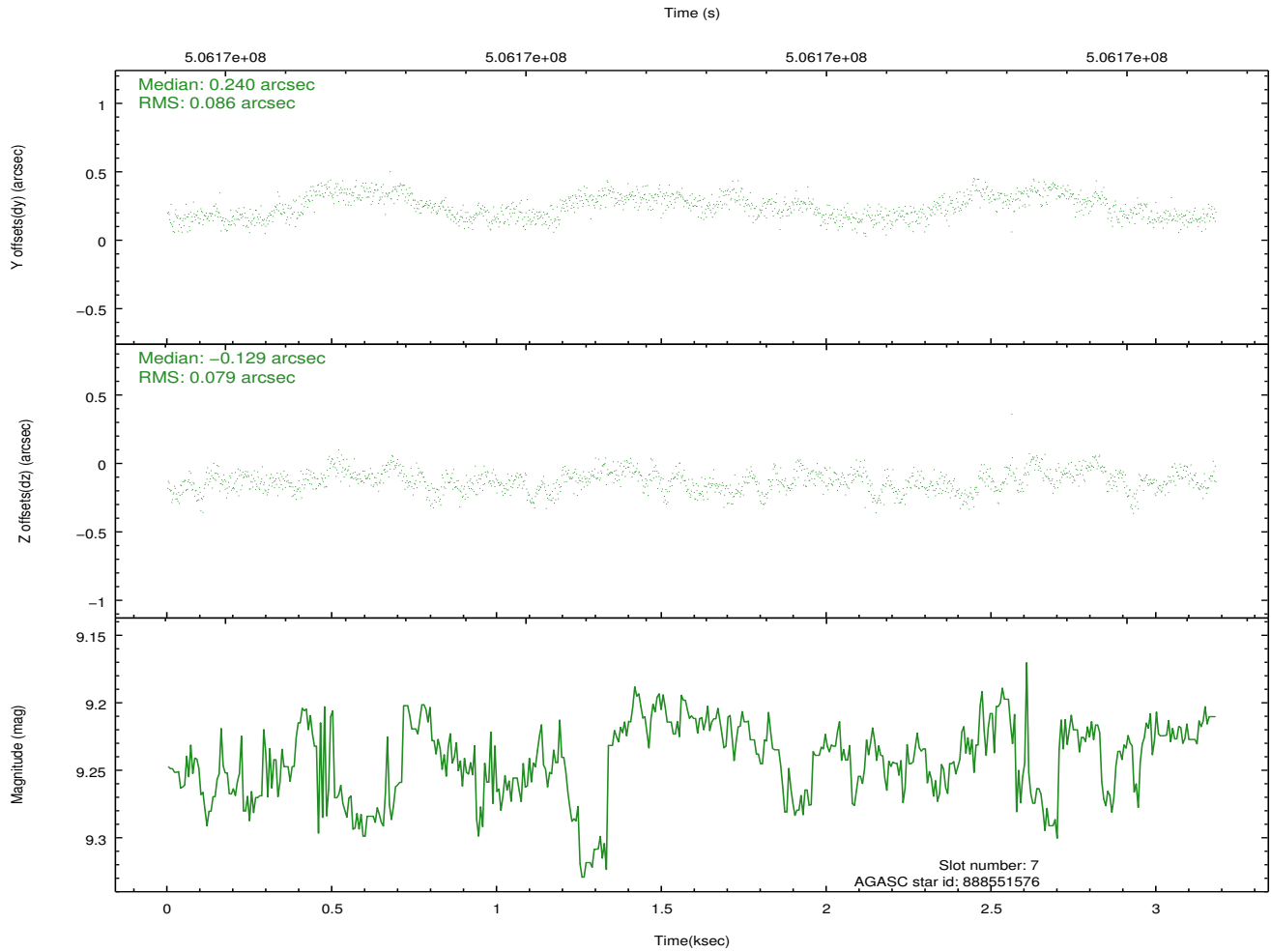
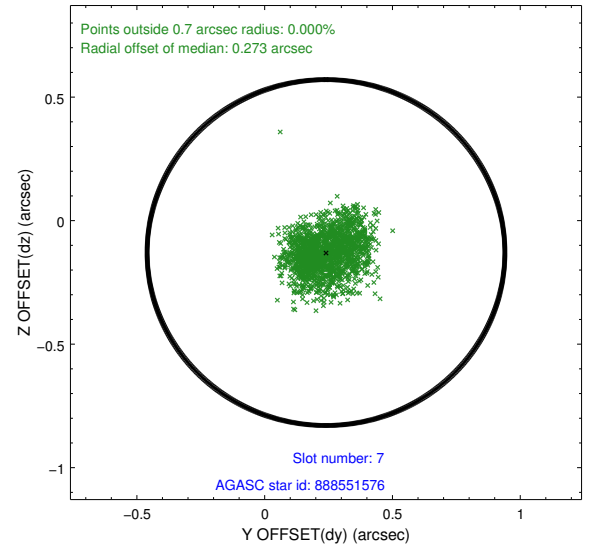
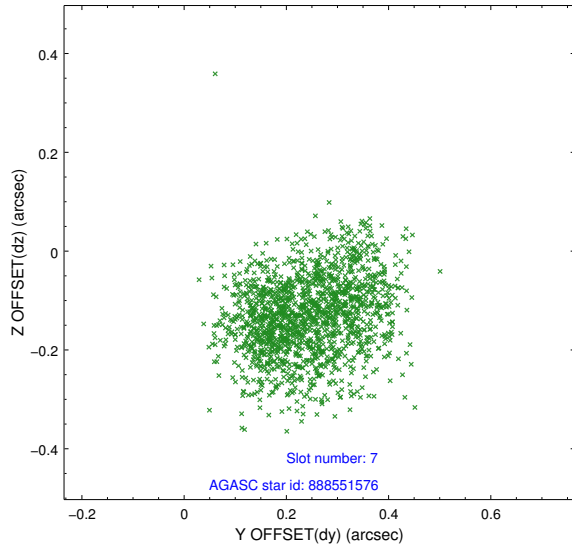
2.4.4 Slot 6



Time (s)

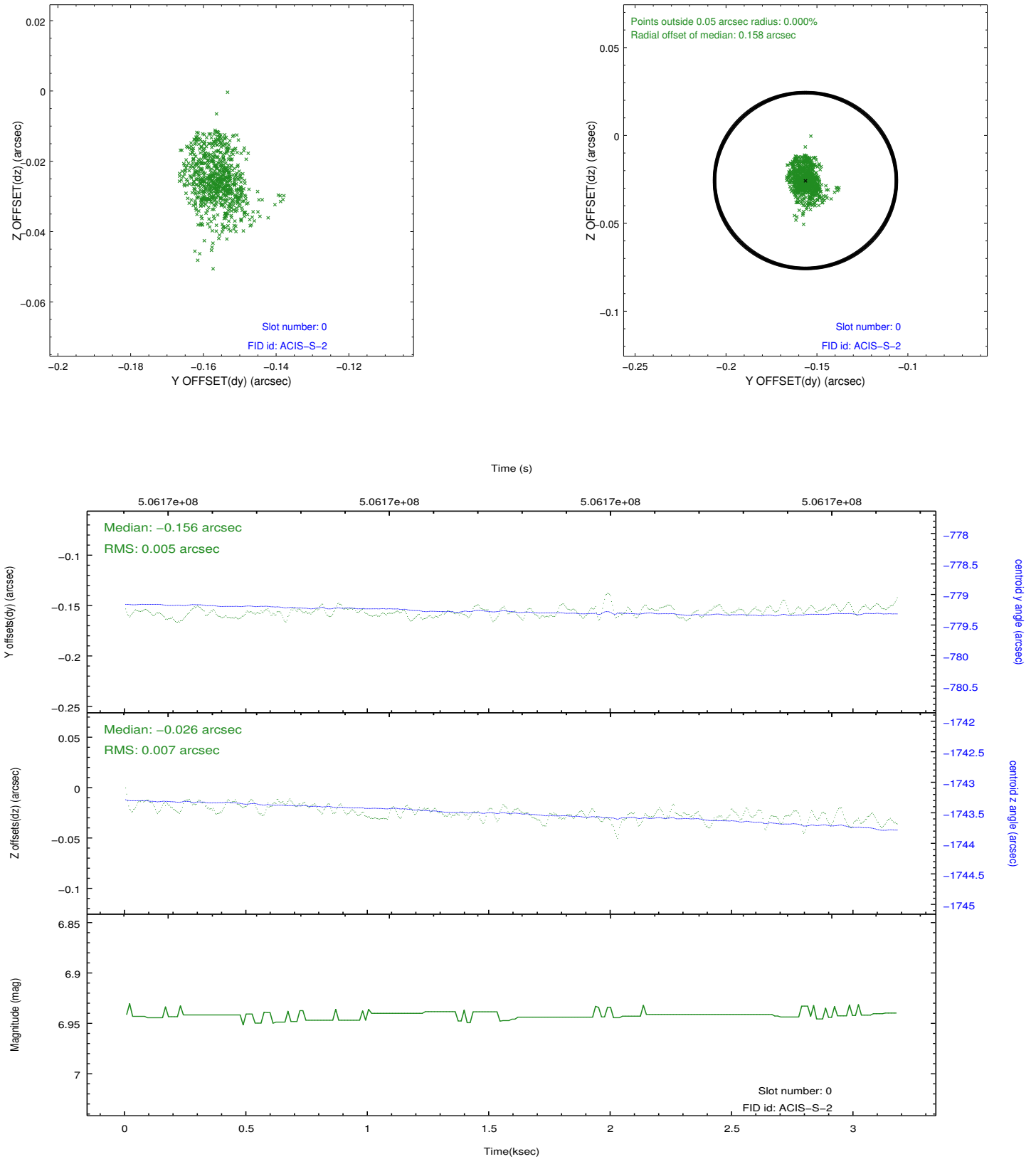


2.4.5 Slot 7

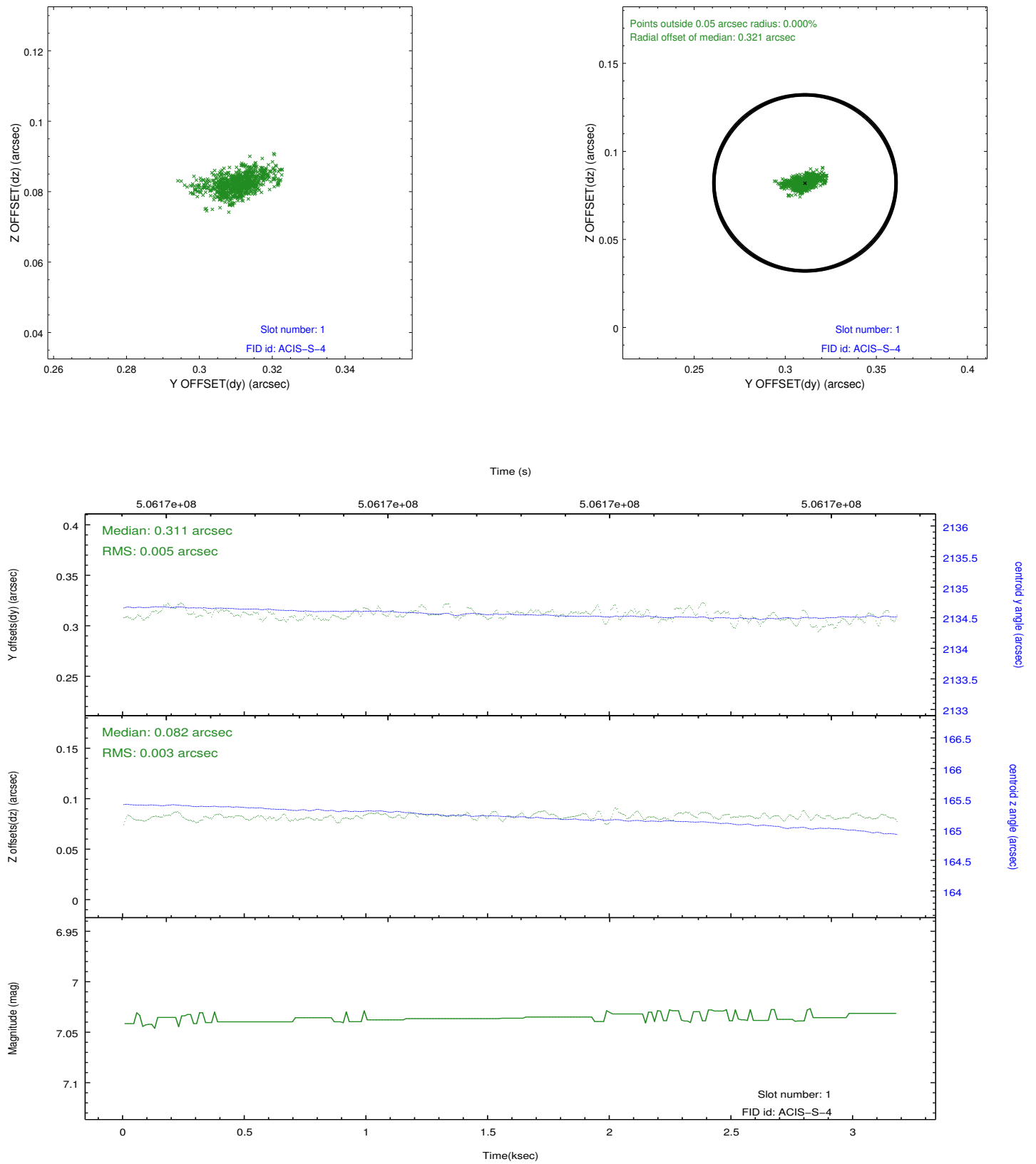


2.5 FID Slots

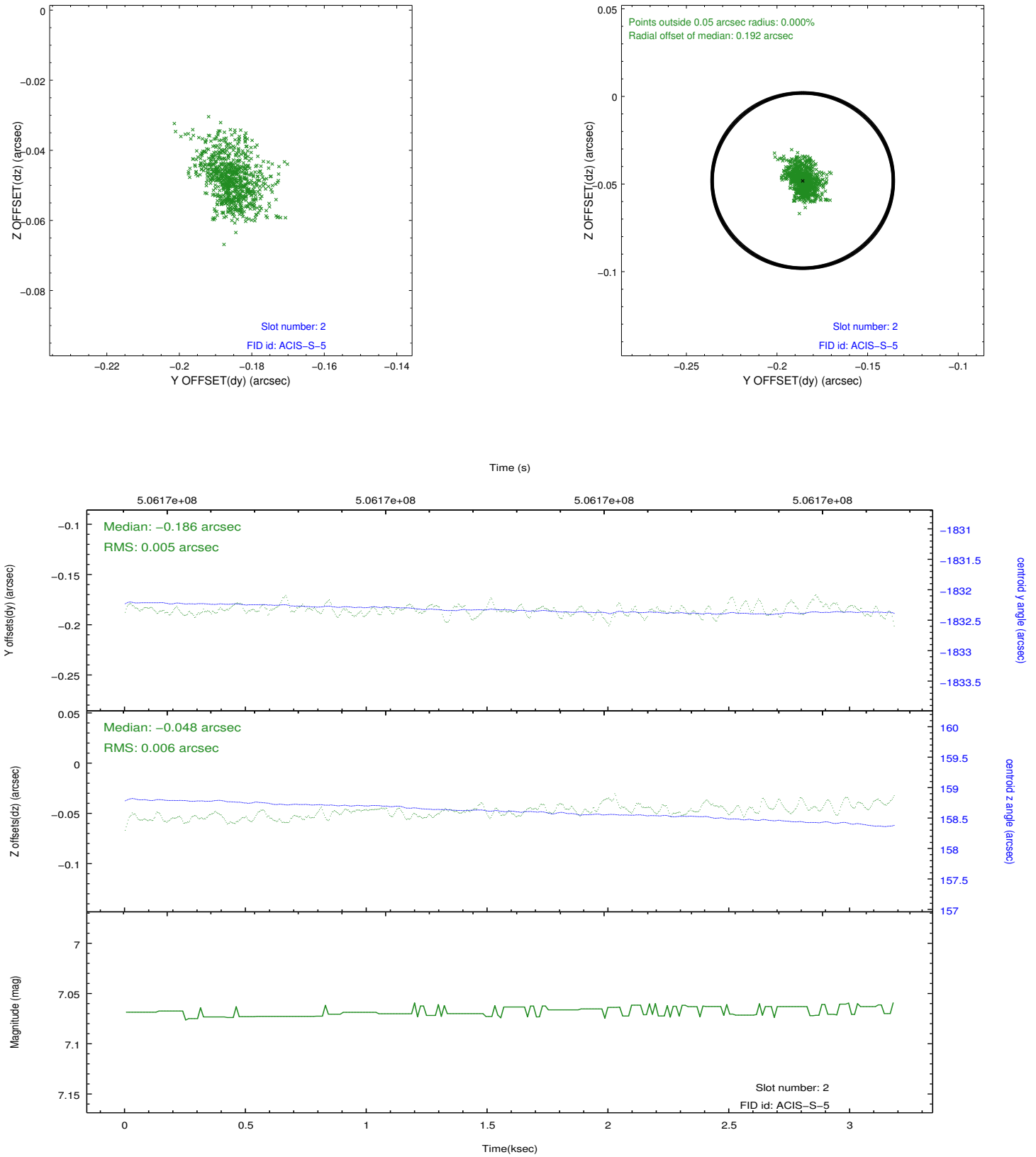
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.7732705168724

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.