

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 6296 - L2 Version 4
Chandra X-Ray Center

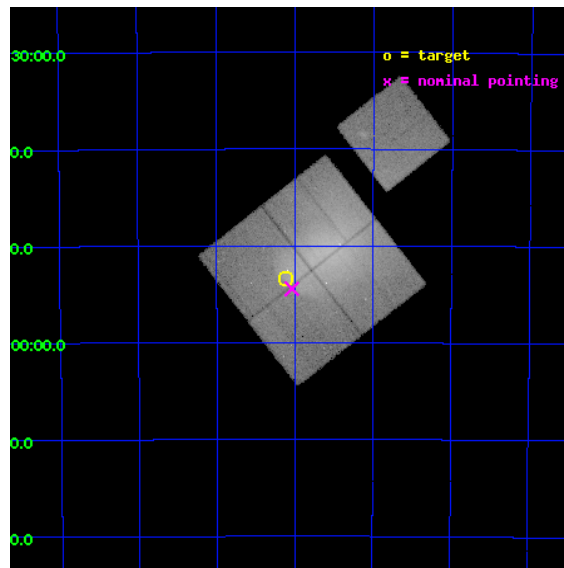
L2 Processing Date : Apr 9 2013

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1 Front

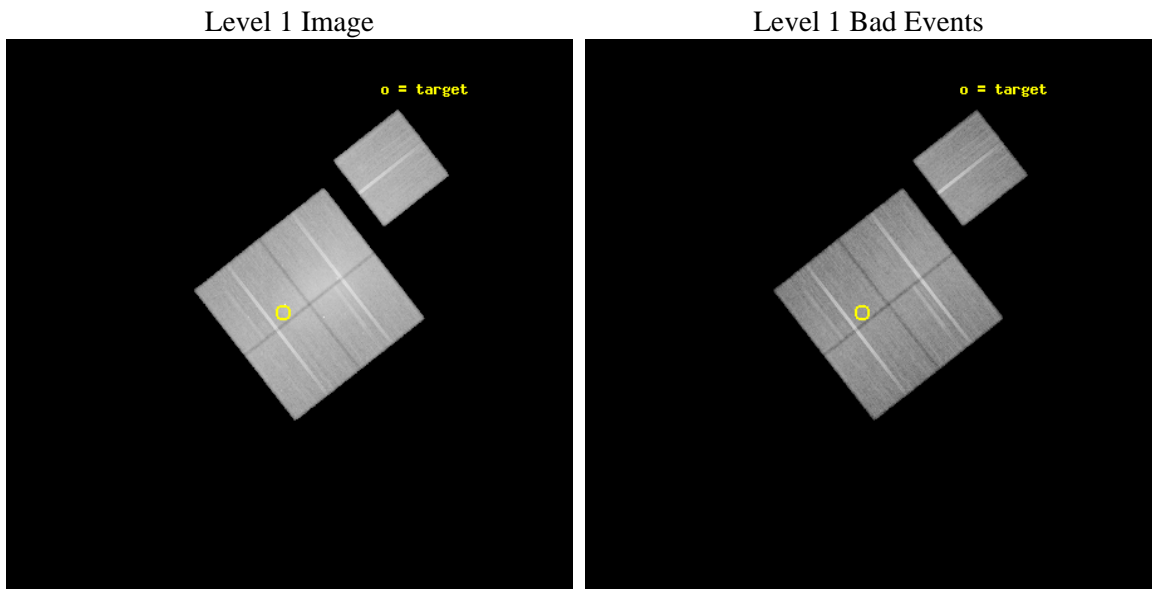
seq_num	800466	Sequence number
obs_id	6296	Observation id
title	A CHANDRA TREASURY OBSERVATION OF THE BEST EXAMPLE OF A CLUSTER COLD FRONT	Proposal title
observer	Dr. Alexey Vikhlinin	Principal investigator
object	Abell 3667	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	303.280208	Observer's specified target RA [deg]
dec_targ	-56.89	Observer's specified target Dec [deg]
ra_nom	303.25931406839	Nominal RA [deg]
dec_nom	-56.90736417181	Nominal Dec [deg]
roll_nom	51.924024533939	Nominal Roll [deg]
revision	4	Processing version of data
ontime	50040.076913089	Sum of GTIs [s]
livetime	49386.26646925	Livetime [s]
ontime0	50040.076913089	Sum of GTIs [s]
ontime1	50049.499903738	Sum of GTIs [s]
ontime2	50036.935903043	Sum of GTIs [s]
ontime3	50043.2179133	Sum of GTIs [s]
ontime6	50049.499903738	Sum of GTIs [s]
l2events	425515	Number of level 2 events



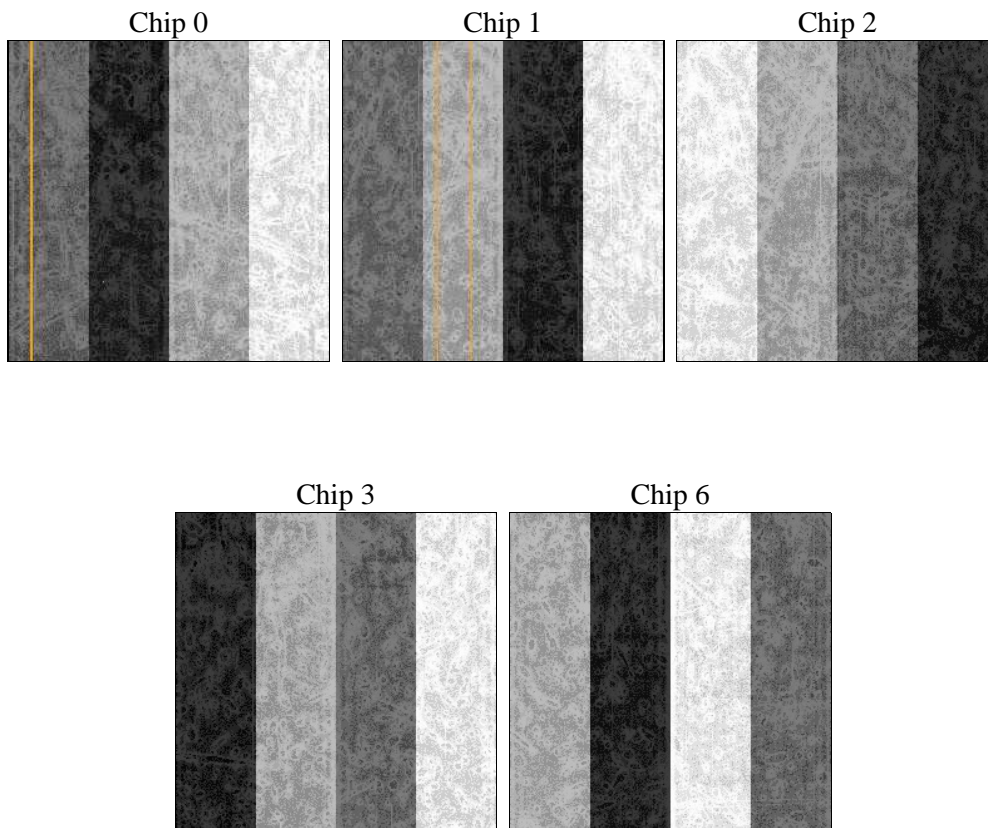
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	50040.076913089	Sum of GTIs [s]
caldsver	4.5.6	 	ontime0	50040.076913089	Sum of GTIs [s]
date	2013-04-09T22:43:49	Date and time of file creation	ontime1	50049.499903738	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	50036.935903043	Sum of GTIs [s]
			ontime3	50043.2179133	Sum of GTIs [s]
			ontime6	50049.499903738	Sum of GTIs [s]
			l1events	1906035	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	349729	334525	459339	408913	353529
rejected events	269117	265903	310194	292598	297228
rejected %	76%	79%	67%	71%	84%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	50688	39422	107758	81591	30742
	14%	11%	23%	19%	8%
grade 1 events	368	271	730	627	227
	0%	0%	0%	0%	0%
grade 2 events	12432	11049	18889	14693	9419
	3%	3%	4%	3%	2%
grade 3 events	5186	5017	6852	6027	4331
	1%	1%	1%	1%	1%
grade 4 events	4841	4932	7008	5892	4295
	1%	1%	1%	1%	1%
grade 5 events	11772	12535	11415	13320	12735
	3%	3%	2%	3%	3%
grade 6 events	7468	8204	8646	8124	7520
	2%	2%	1%	1%	2%
grade 7 events	256974	253095	298041	278639	284260
	73%	75%	64%	68%	80%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	303.252428	303.2593140683877	Subarray requested	NONE	NONE
[deg] Pointing Dec	-56.934511	-56.90736417180999	Alternating exposures requested	N	N
[deg] Pointing Roll	51.709577	51.92402453393868	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-243.592463	-243.5843520998312			
[mm] SIM translation stage offset	10	9.991899096901562			
[s] Observation start time (MET)	235598910.184000	235597698.82785			
Observation start date	2005-06-19T20:07:26	2005-06-19T19:48:18			
[s] Observation end time (MET)	235648910.184000	235649652.49272			
Observation end date	2005-06-20T10:00:46	2005-06-20T10:14:12			
Read mode	TIMED	TIMED			

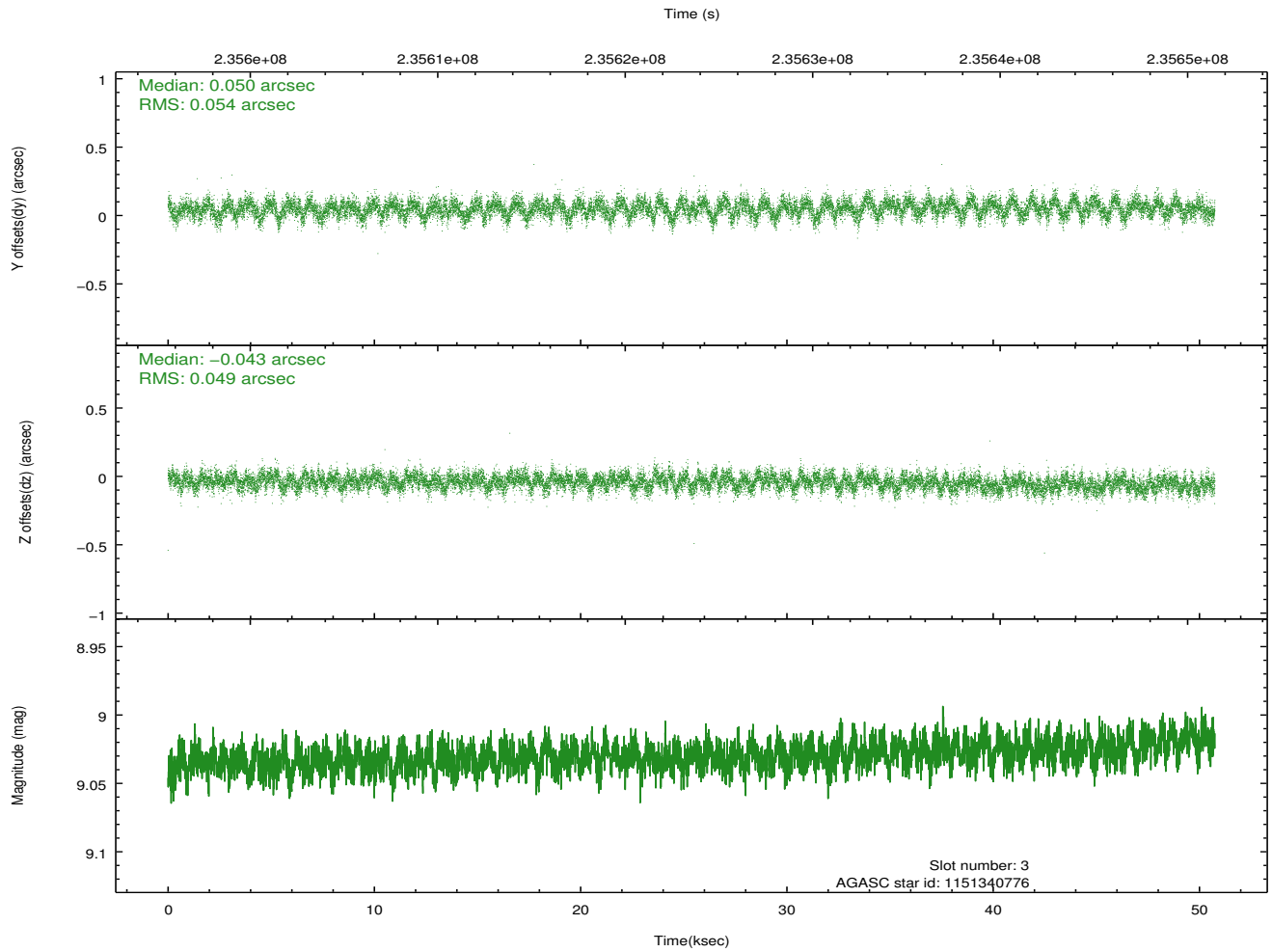
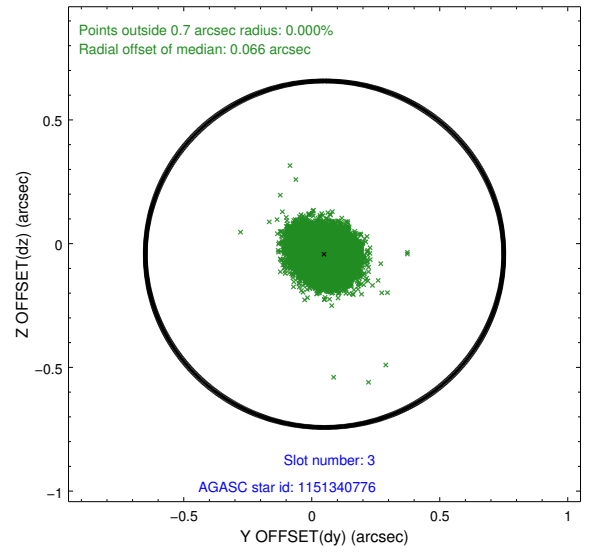
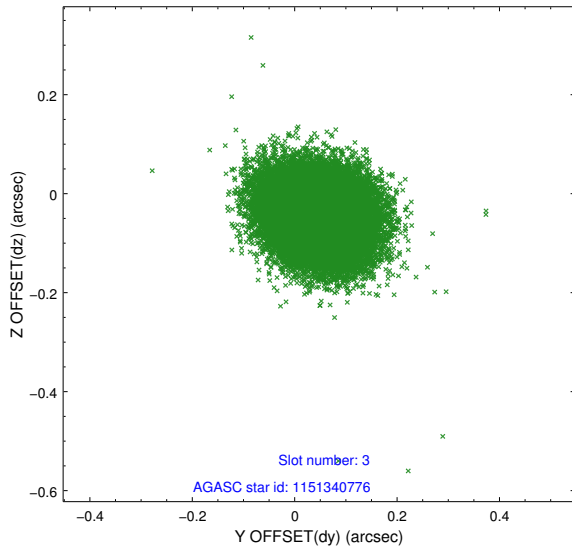
2.3 Aspect

Slot Statistics

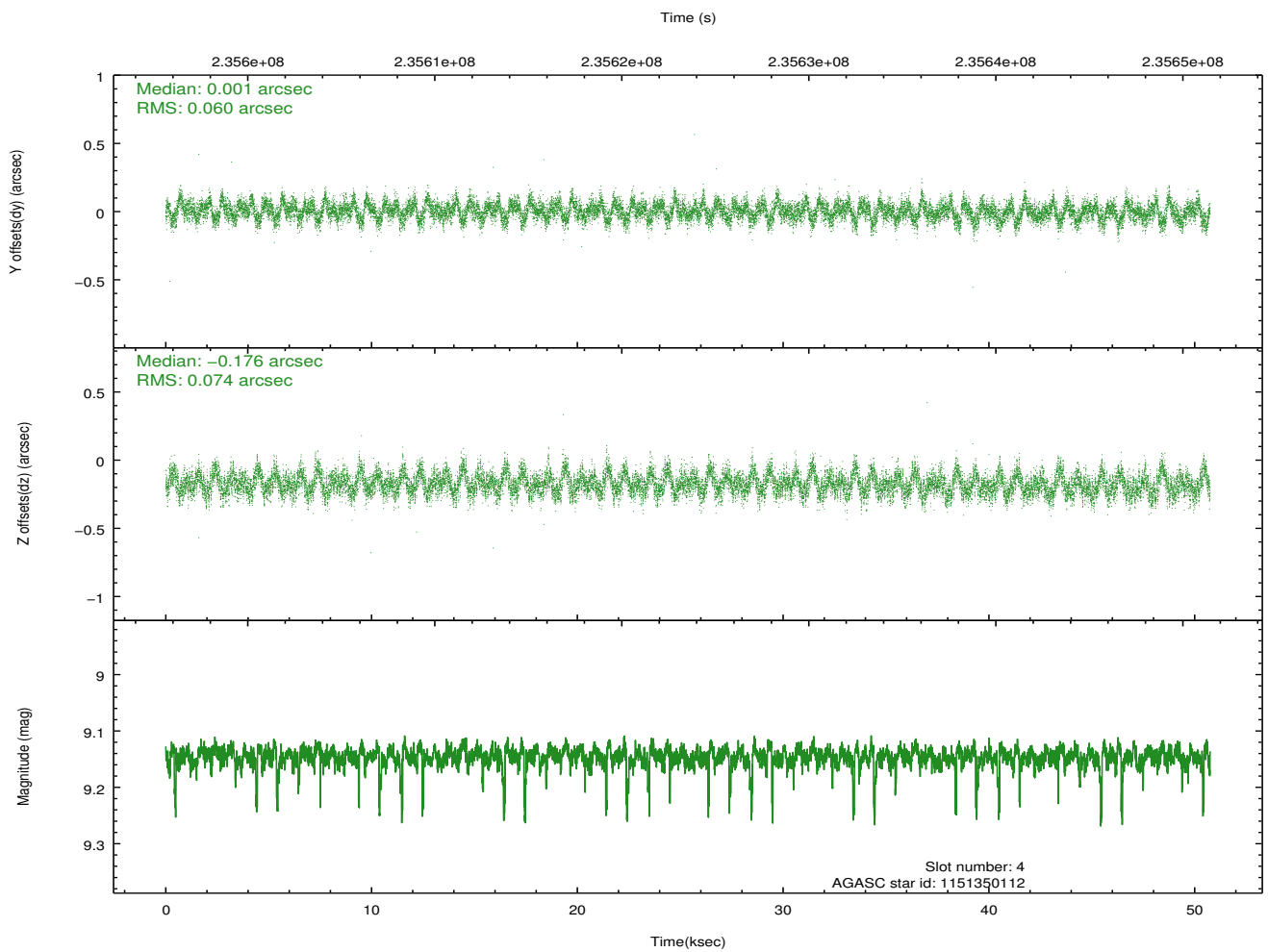
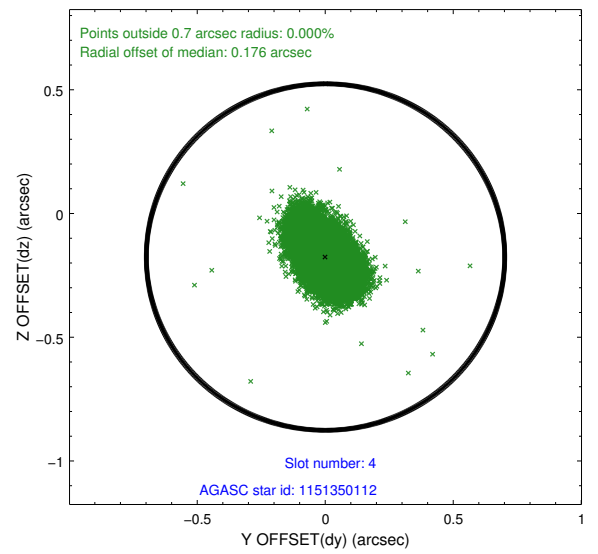
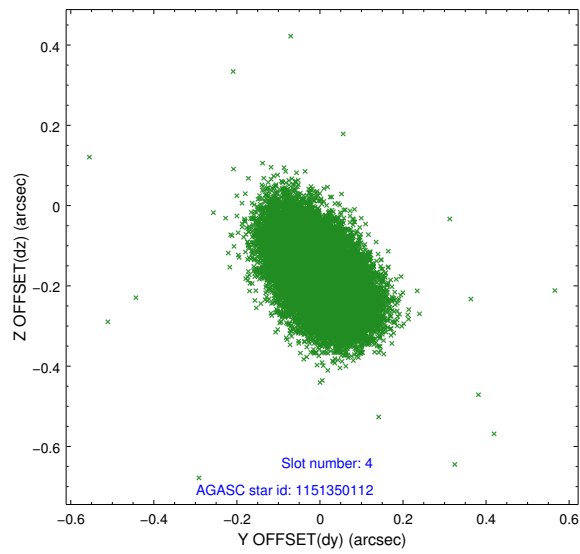
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.19	12379	-0.026	-0.134	0.022	0.034	0.000000	0.000000	-759.97	-634.85
1	FID	ACIS-I-4	7.23	12378	0.148	0.058	0.016	0.029	0.000000	0.000000	2154.24	1271.71
2	FID	ACIS-I-5	7.24	12378	-0.224	0.146	0.014	0.025	0.000000	0.000000	-1814.62	1270.74
3	GUIDE	1151340776	9.03	24740	0.050	-0.043	0.077	0.125	302.320116	-57.331751	-2254.46	528.21
4	GUIDE	1151350112	9.15	24687	0.001	-0.176	0.100	0.169	303.241865	-56.846660	235.49	212.45
5	GUIDE	1151472992	9.61	24723	-0.033	0.149	0.114	0.181	303.531180	-57.237033	-518.86	-1101.35
6	GUIDE	1151471240	9.44	24735	0.119	0.025	0.101	0.187	303.425045	-57.451391	-1253.22	-1415.52
7	GUIDE	1151467856	9.66	24734	-0.134	0.036	0.103	0.167	303.931677	-56.775960	1273.16	-701.69

2.4 Star Slots

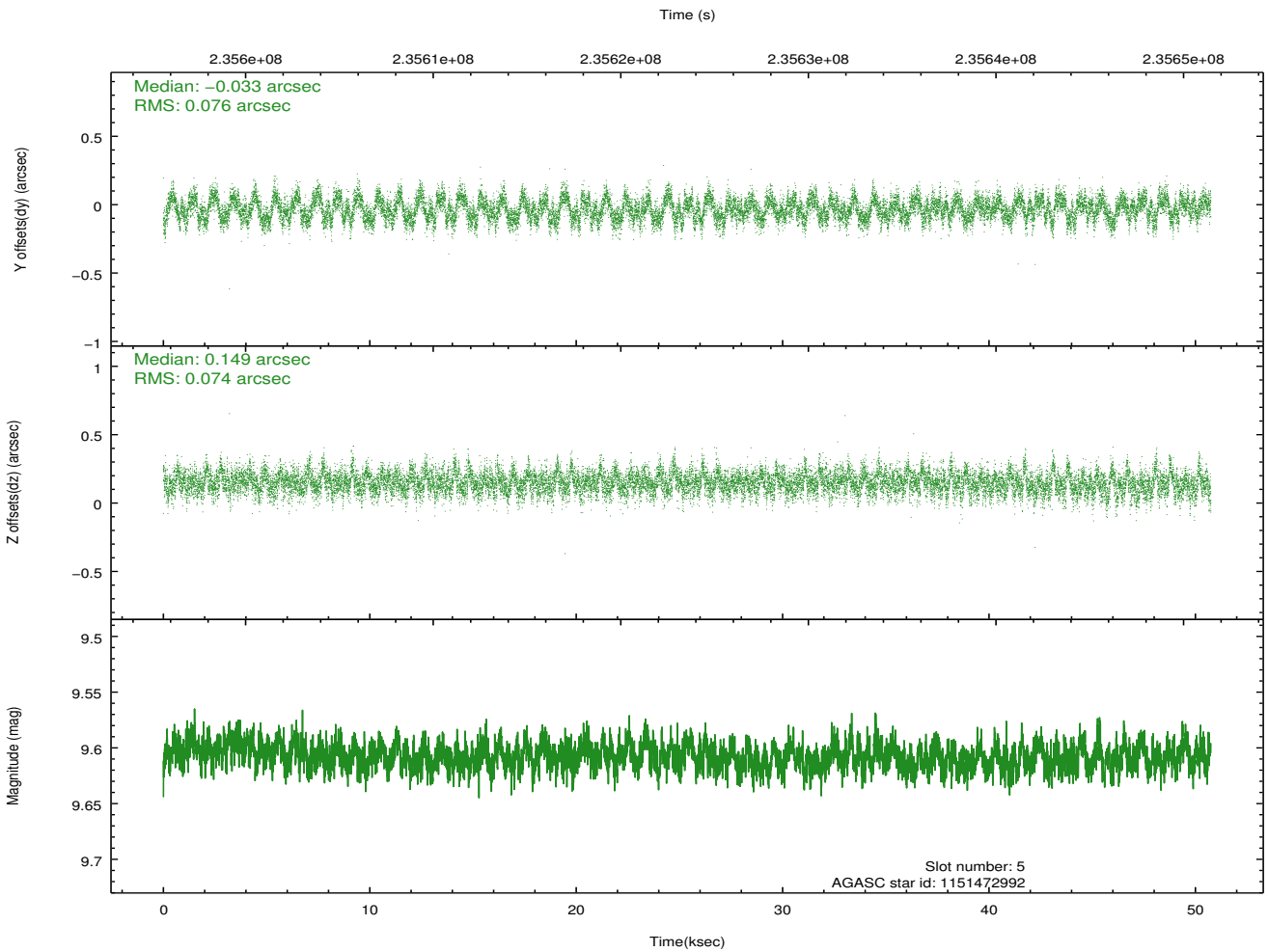
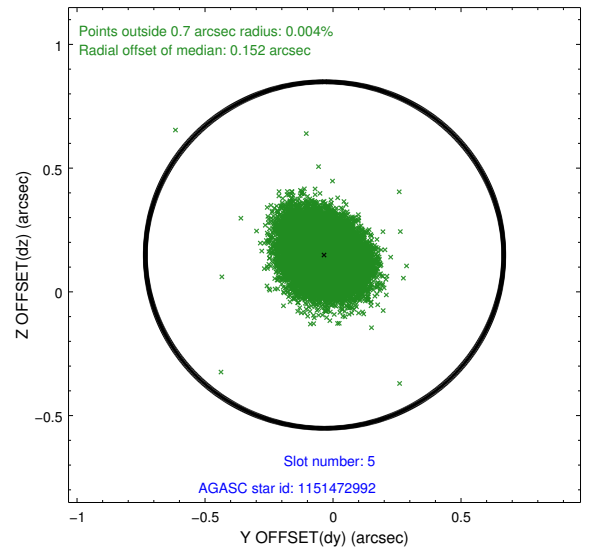
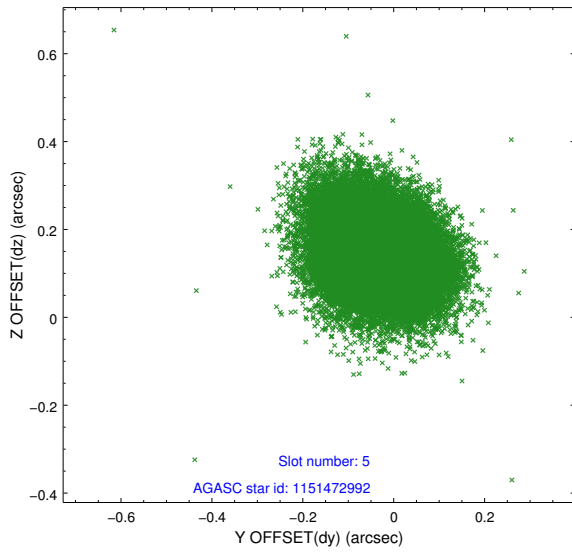
2.4.1 Slot 3



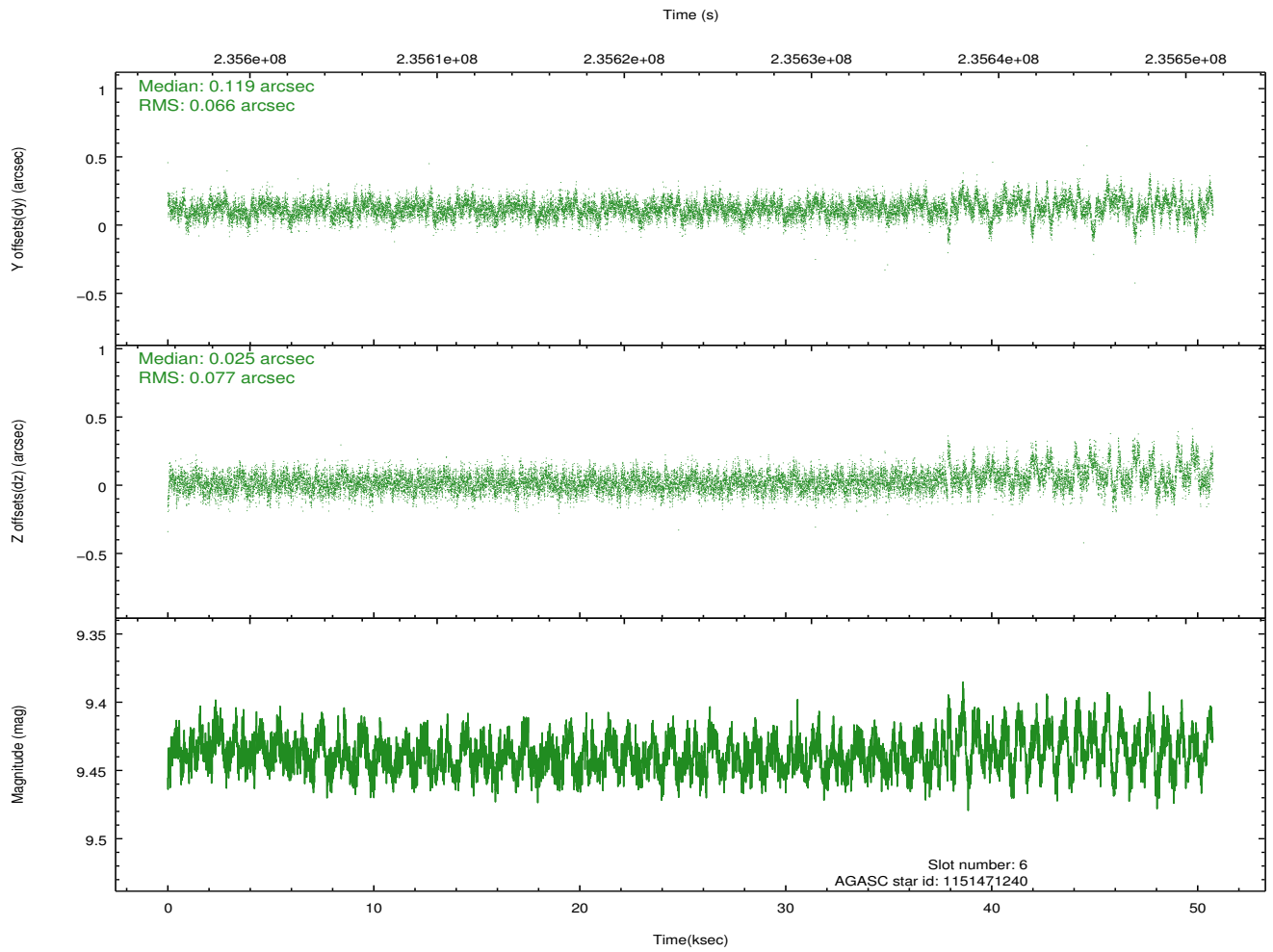
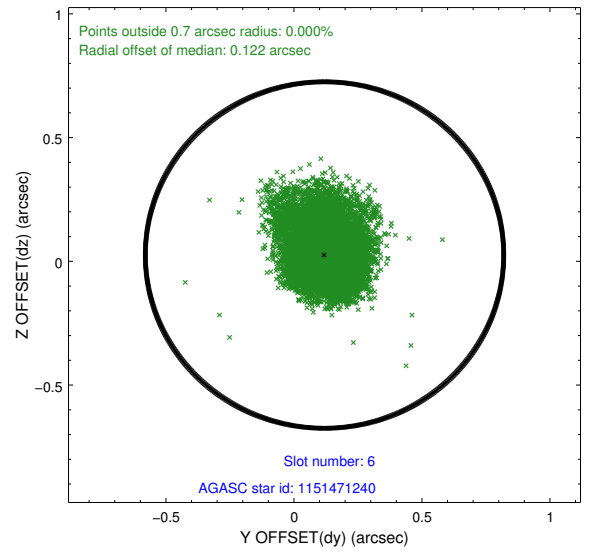
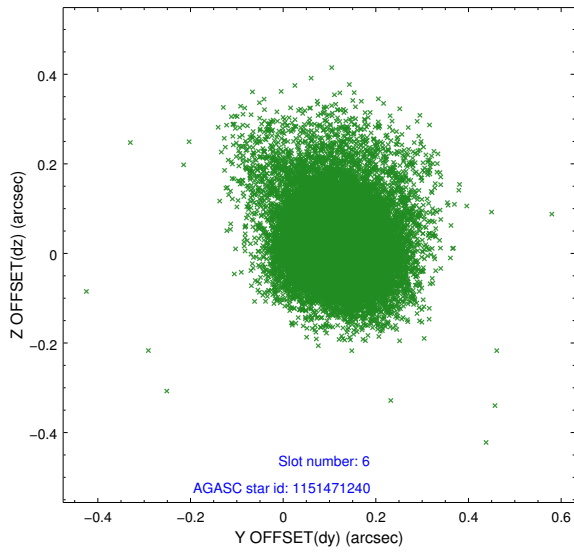
2.4.2 Slot 4



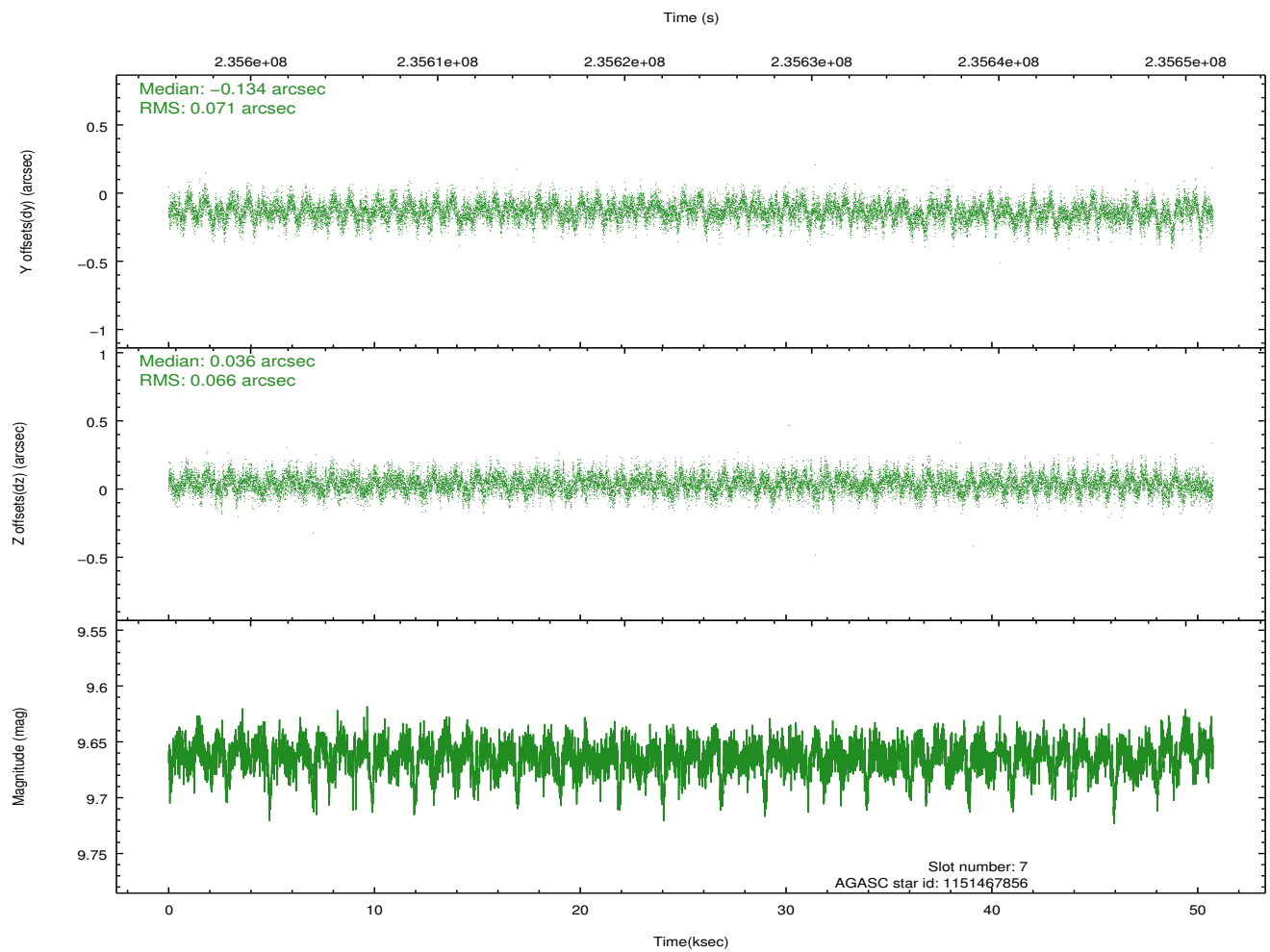
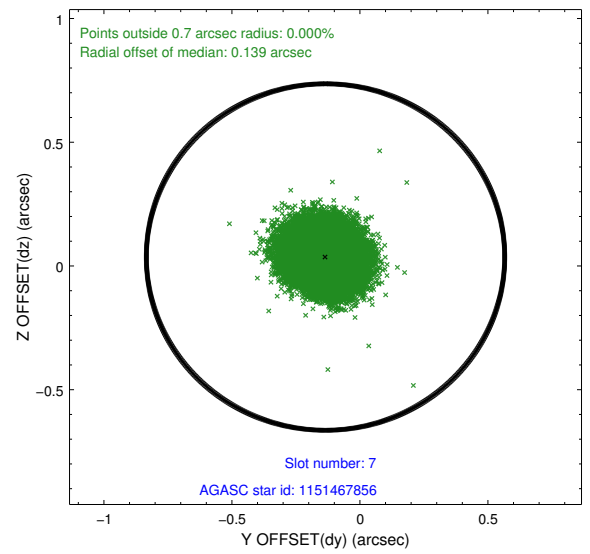
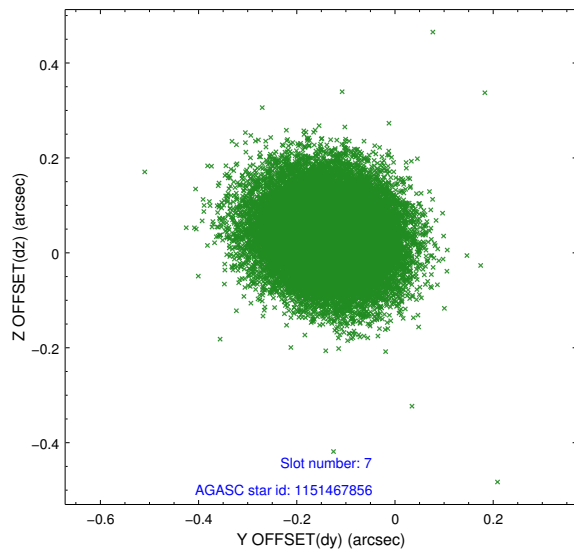
2.4.3 Slot 5



2.4.4 Slot 6

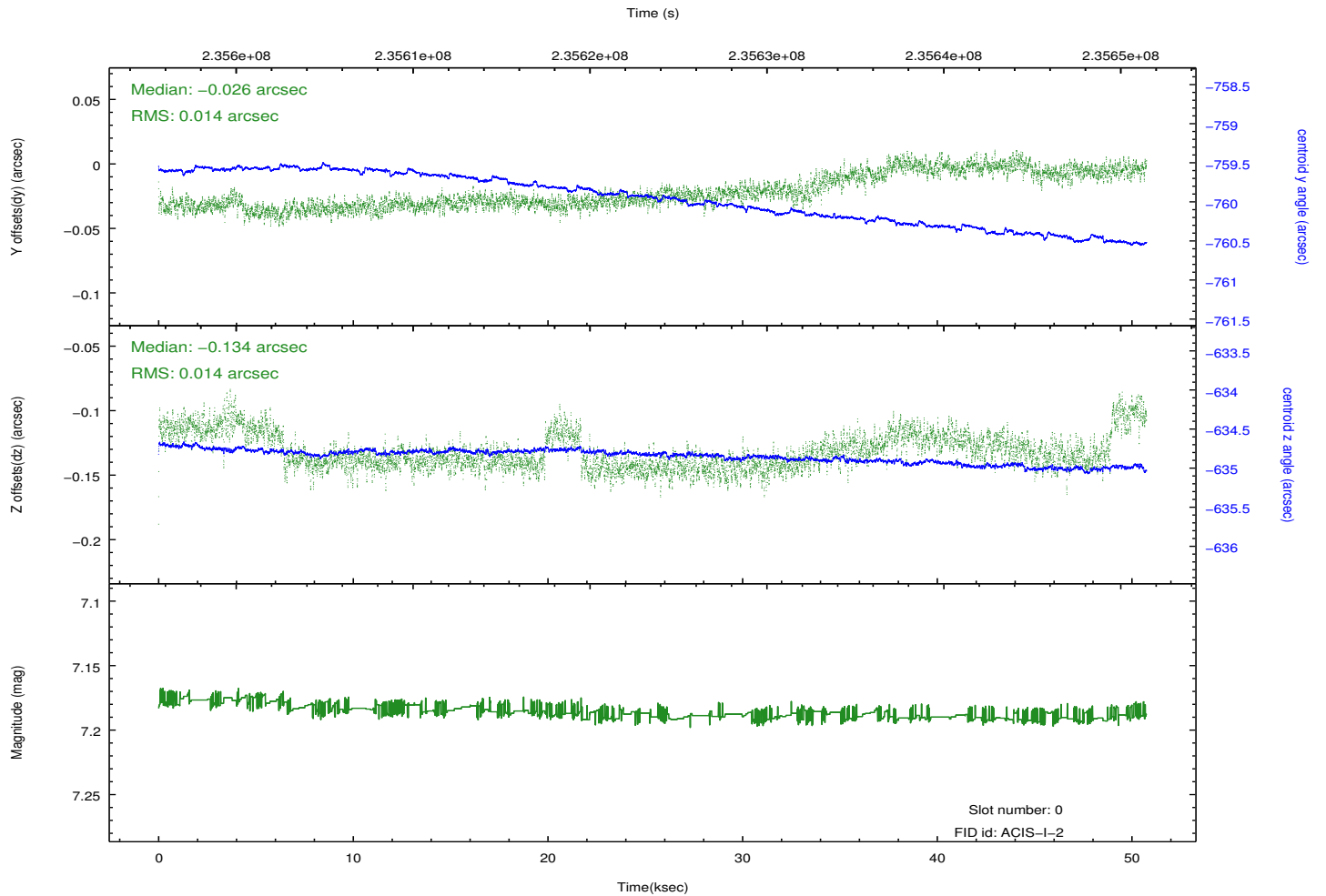
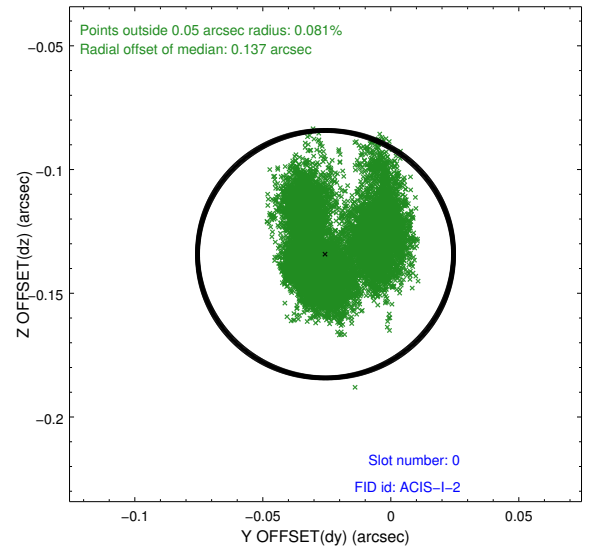
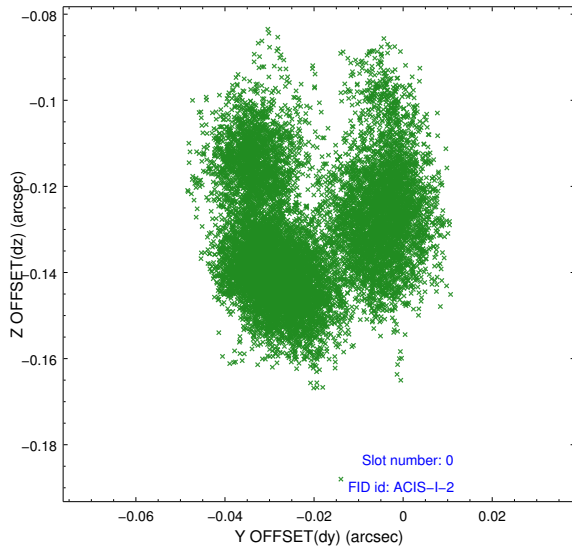


2.4.5 Slot 7

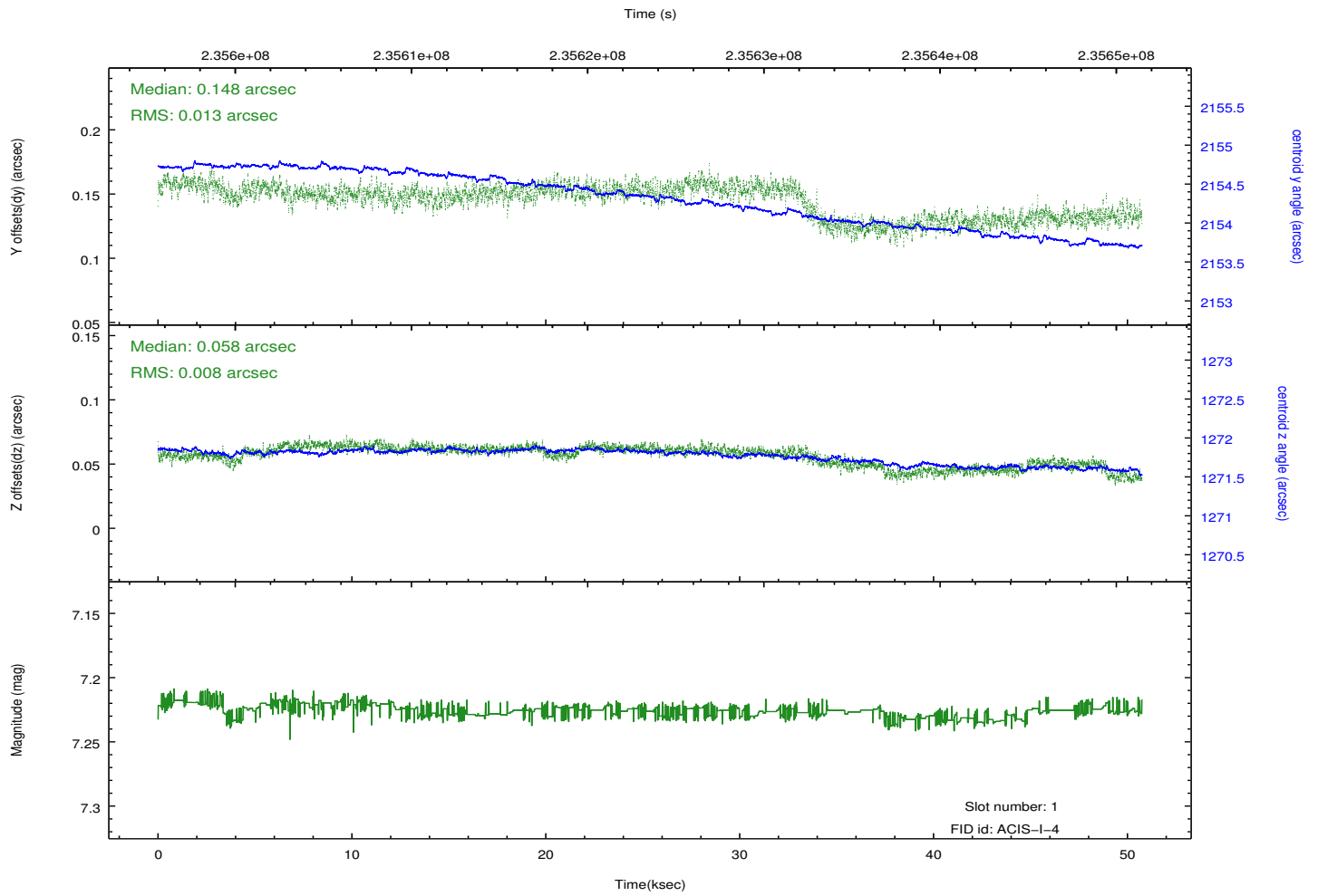
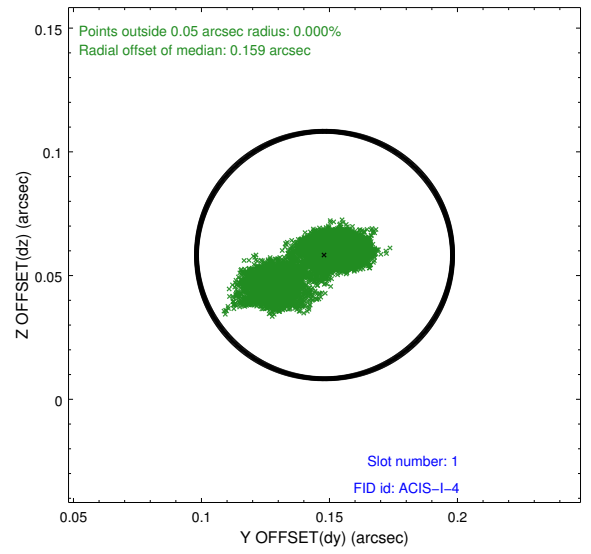
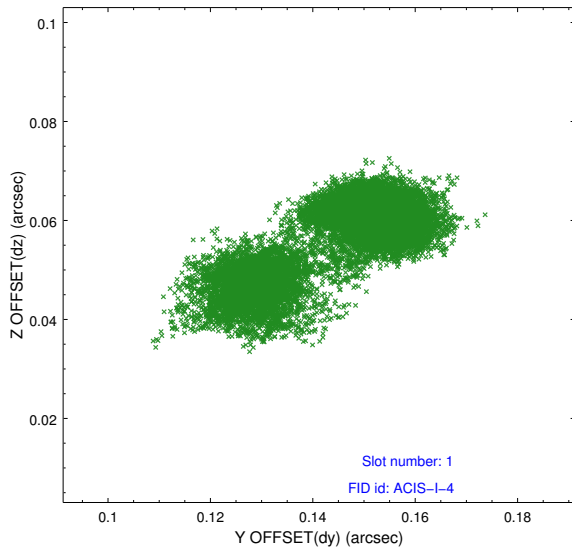


2.5 FID Slots

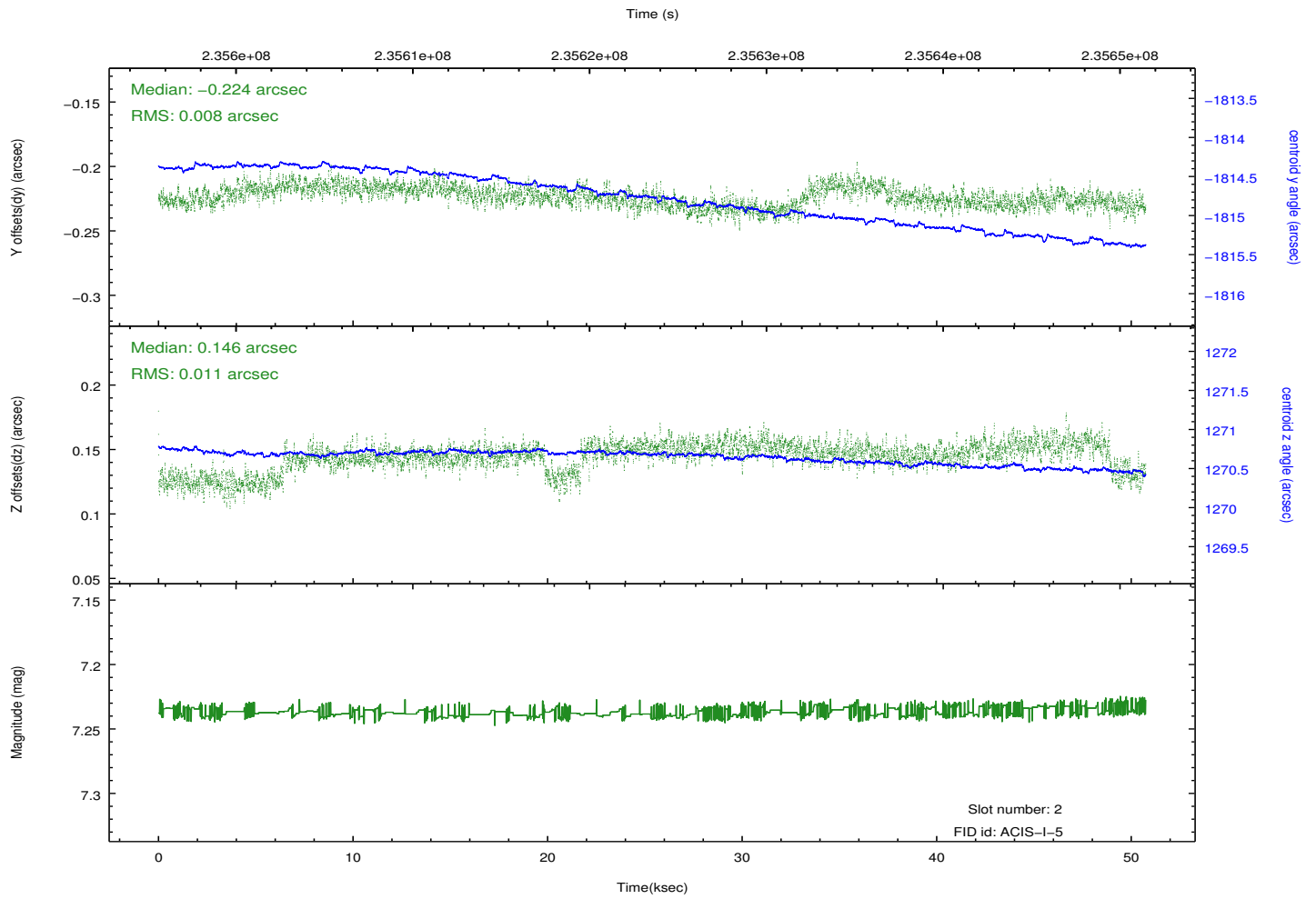
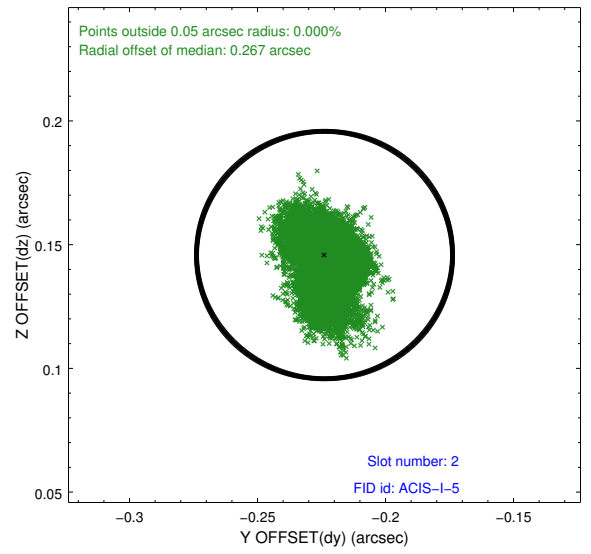
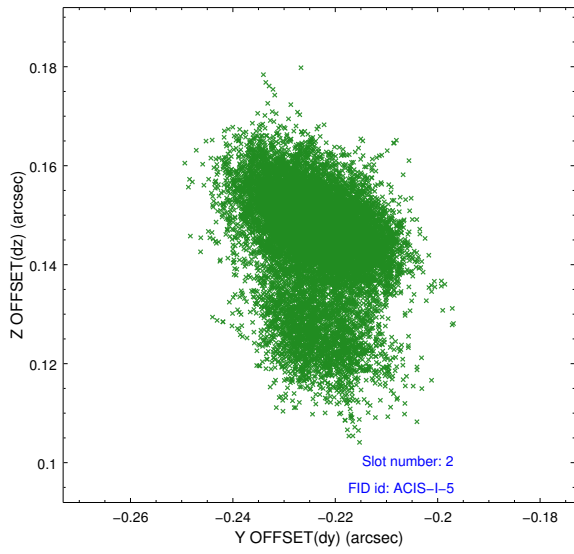
2.5.1 Slot 0



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)	2013.04.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.04007

A.2 Comments

A spatial region of the original bias map for CCD = 0 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 0 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(303.36928, -56.77043), (303.36537, -56.76874), (303.20830, -56.87857), (303.21222, -56.88026)

=====

This region includes a portion of the extended object.