

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4930 - L2 Version 3
Chandra X-Ray Center

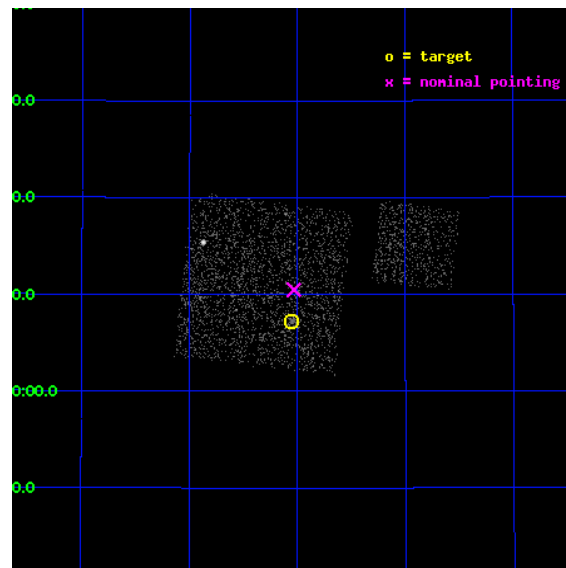
L2 Processing Date : Nov 9 2012

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1 Front

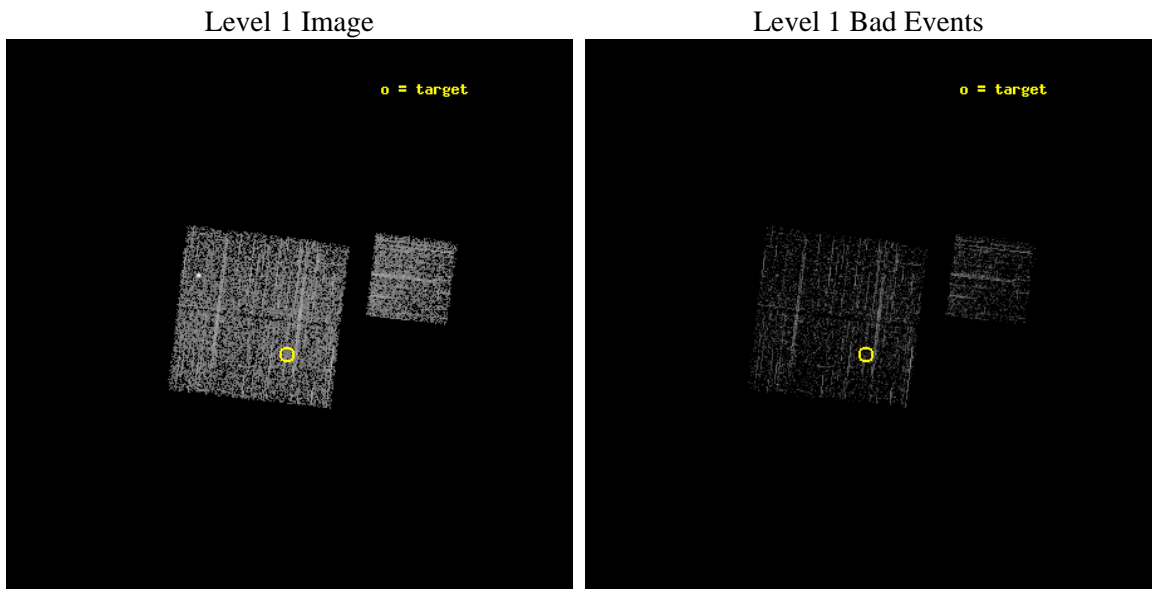
seq_num	800381	Sequence number
obs_id	4930	Observation id
title	Chandra snapshot survey of 10 distant clusters of galaxies	Proposa
observer	Dr. Stephen Murray	Principal investigator
object	CL0956+4107	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.014167	Observer's specified target RA [deg]
dec_targ	41.120556	Observer's specified target Dec [deg]
ra_nom	149.00814220207	Nominal RA [deg]
dec_nom	41.174692783845	Nominal Dec [deg]
roll_nom	96.756616291815	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1720.4190148711	Sum of GTIs [s]
livetime	1697.9404738878	Livetime [s]
ontime0	1720.2958948612	Sum of GTIs [s]
ontime1	1720.3369348645	Sum of GTIs [s]
ontime2	1720.3779748678	Sum of GTIs [s]
ontime3	1720.4190148711	Sum of GTIs [s]
ontime6	1720.2548548579	Sum of GTIs [s]
l2events	4647	Number of level 2 events



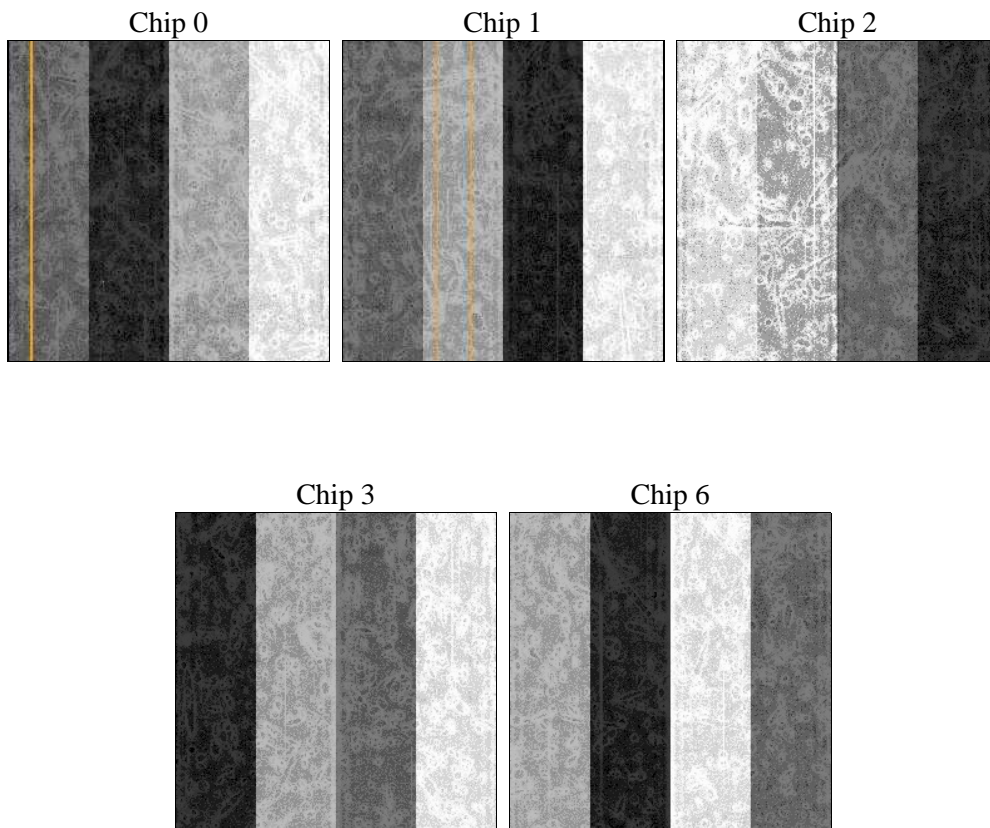
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1720.4190148711	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	1720.2958948612	Sum of GTIs [s]
date	2012-11-09T15:26:35	Date and time of file creation	ontime1	1720.3369348645	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1720.3779748678	Sum of GTIs [s]
			ontime3	1720.4190148711	Sum of GTIs [s]
			ontime6	1720.2548548579	Sum of GTIs [s]
			l1events	44285	Number of level 1 events

2.1.4 Events

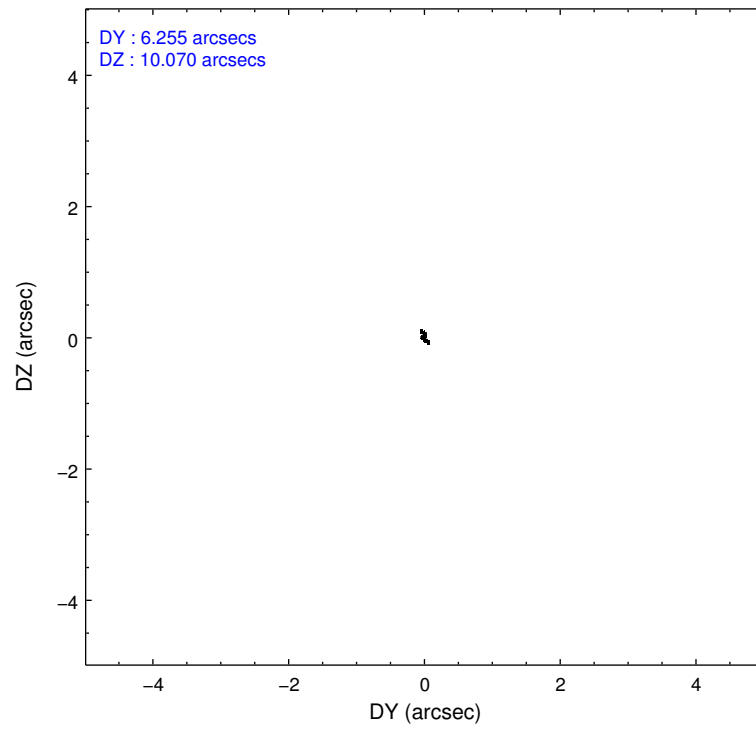
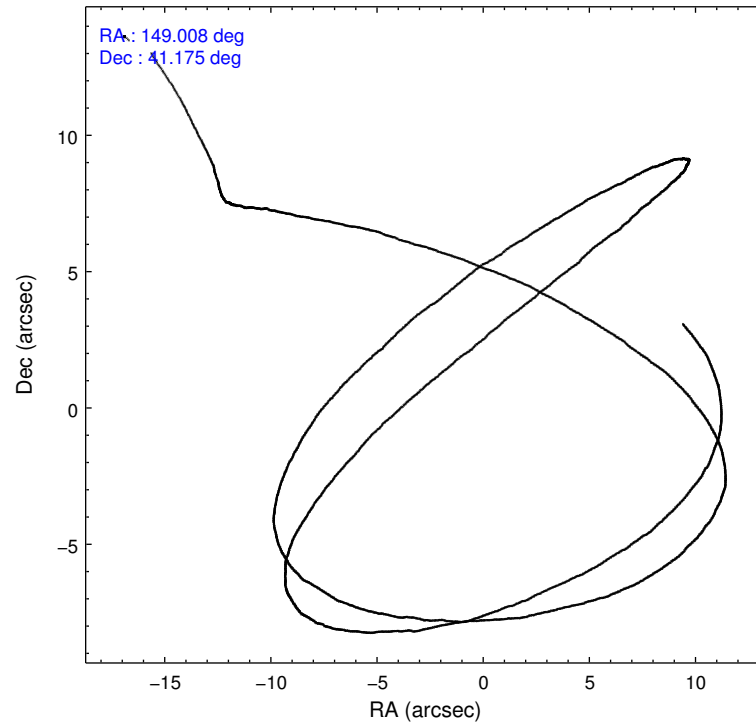
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	8727	7991	9712	9011	8844
rejected events	6899	6973	8807	8102	8004
rejected %	79%	87%	90%	89%	90%

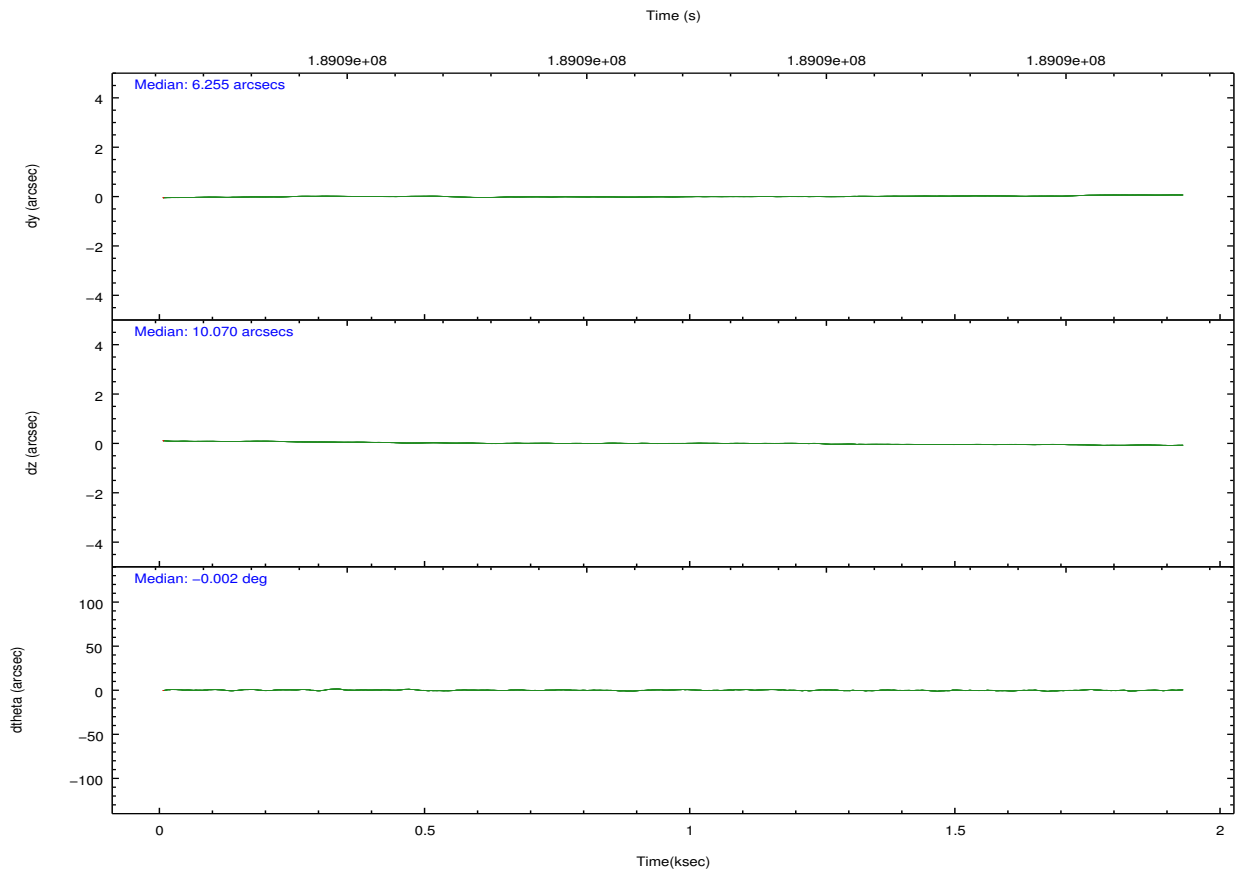
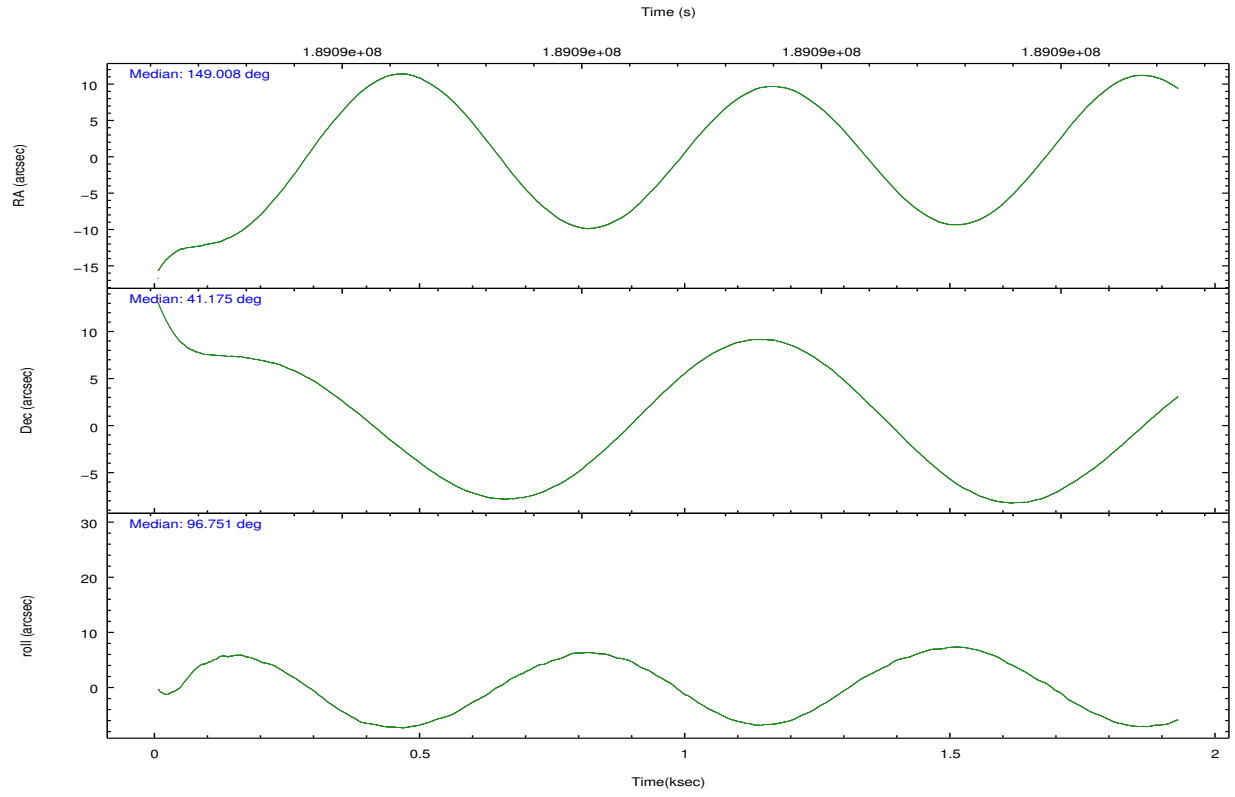
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1066	367	310	332	288
	12%	4%	3%	3%	3%
grade 1 events	7	2	6	8	0
	0%	0%	0%	0%	0%
grade 2 events	283	229	185	210	176
	3%	2%	1%	2%	1%
grade 3 events	145	114	122	100	95
	1%	1%	1%	1%	1%
grade 4 events	128	115	114	99	98
	1%	1%	1%	1%	1%
grade 5 events	307	340	295	348	330
	3%	4%	3%	3%	3%
grade 6 events	210	195	174	168	183
	2%	2%	1%	1%	2%
grade 7 events	6581	6629	8506	7746	7674
	75%	82%	87%	85%	86%

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	149.030196	149.0081422020656	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.152809	41.17469278384454	Alternating exposures requested	N	N
[deg] Pointing Roll	96.533457	96.7566162918154	[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	-225.840463	-225.8433433320239			
[mm] SIM translation stage offset	-7.752	-7.749109670905796			
[s] Observation start time (MET)	189086042.184000	189085010.4885			
Observation start date	2003-12-29T11:52:58	2003-12-29T11:36:50			
[s] Observation end time (MET)	189087642.184000	189088519.06365			
Observation end date	2003-12-29T12:19:38	2003-12-29T12:35:19			
Read mode	TIMED	TIMED			

2.3 Aspect



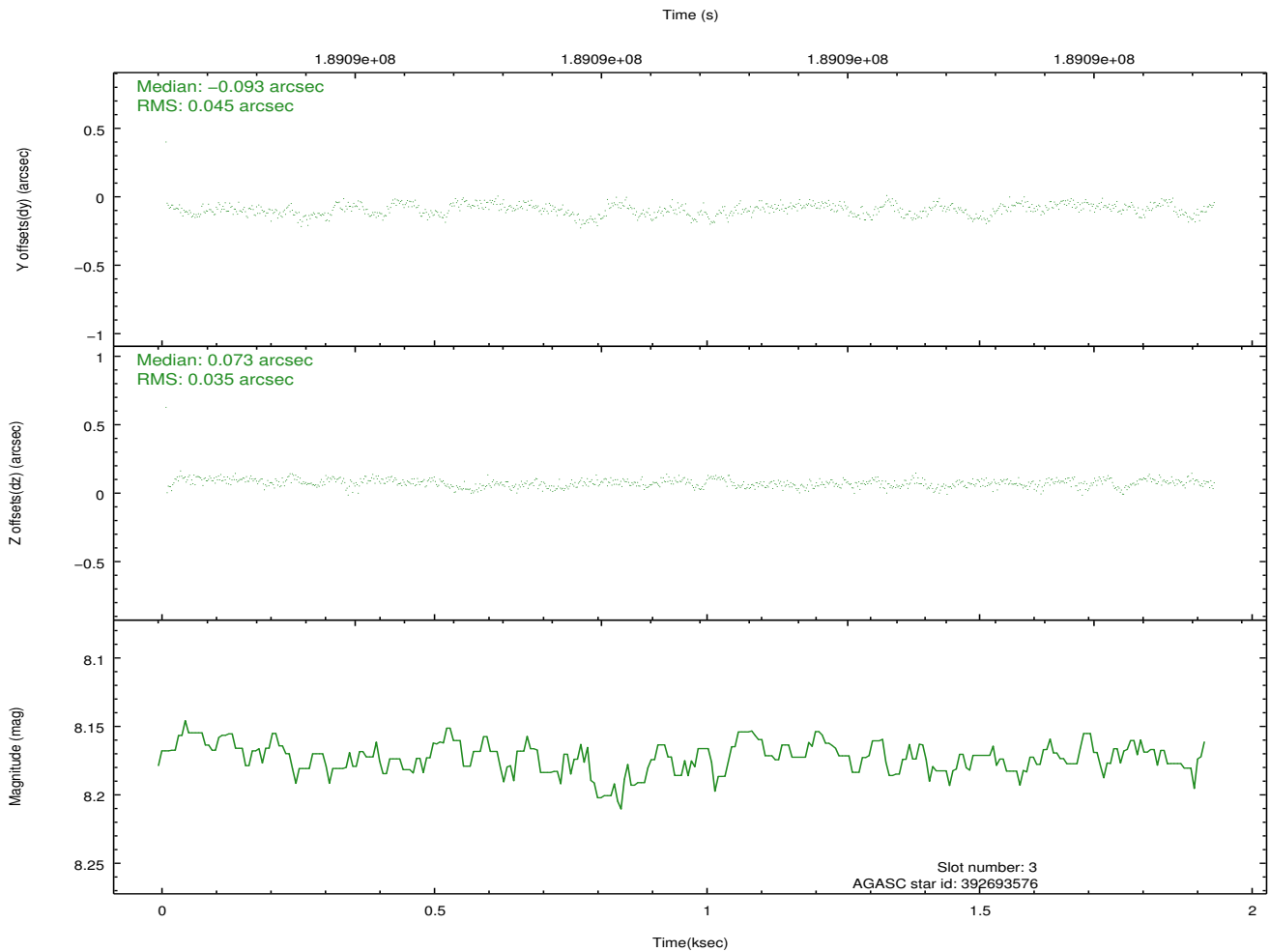
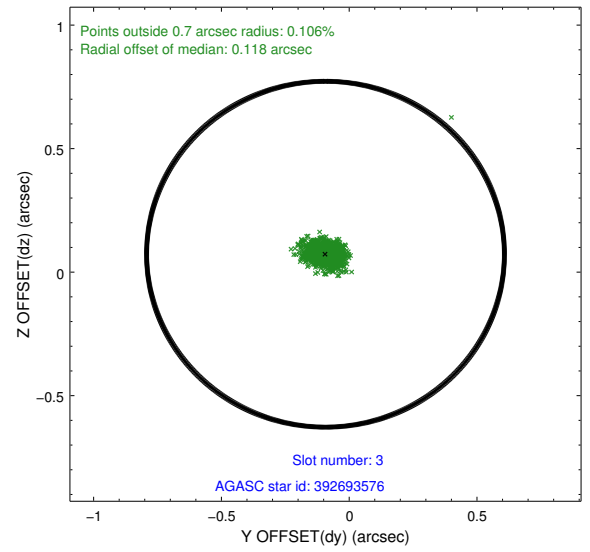
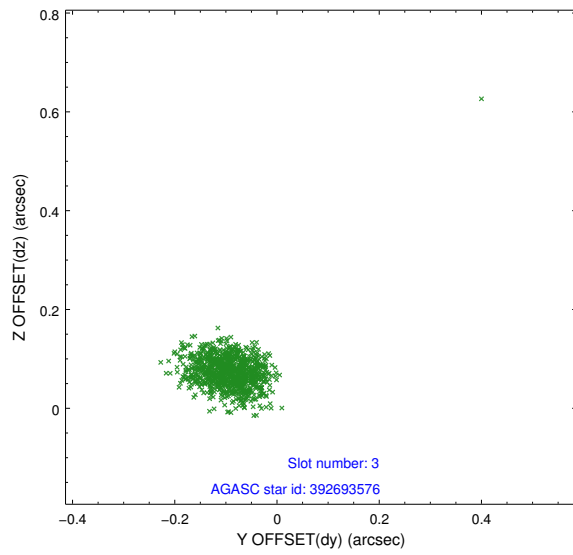


Slot Statistics

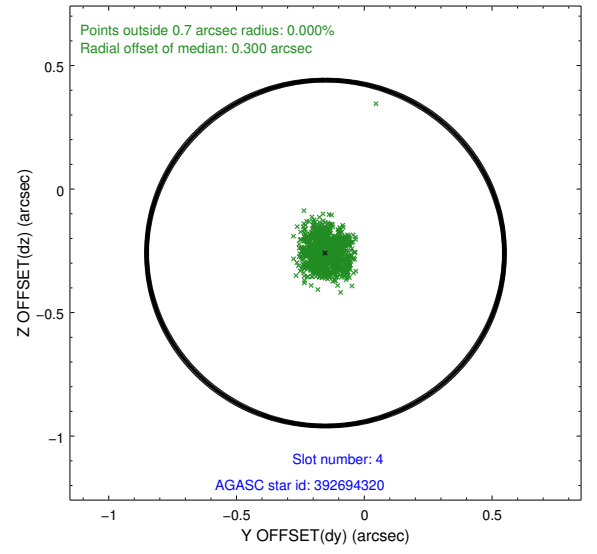
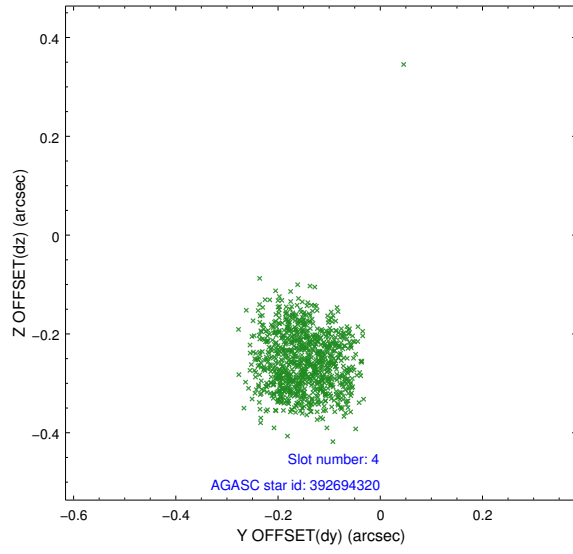
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	470	0.083	-0.072	0.006	0.012	0.000000	0.000000	933.38	-992.70
1	FID	ACIS-I-5	7.22	470	-0.205	0.081	0.006	0.013	0.000000	0.000000	-1813.11	902.92
2	FID	ACIS-I-6	7.25	470	0.031	0.063	0.006	0.011	0.000000	0.000000	395.19	1551.26
3	GUIDE	392693576	8.17	939	-0.093	0.073	0.055	0.088	149.531855	41.595239	1432.80	-1523.55
4	GUIDE	392694320	8.52	939	-0.152	-0.259	0.085	0.123	148.201769	41.462521	1373.98	2090.39
5	GUIDE	392695480	8.87	939	0.005	0.149	0.089	0.140	149.916110	41.131503	-335.55	-2377.07
6	GUIDE	392697792	9.50	938	0.163	0.037	0.077	0.128	149.223797	40.535935	-2266.03	-276.44
7	GUIDE	392695808	8.18	938	0.079	-0.001	0.061	0.094	149.841460	40.572011	-2321.55	-1968.10

2.4 Star Slots

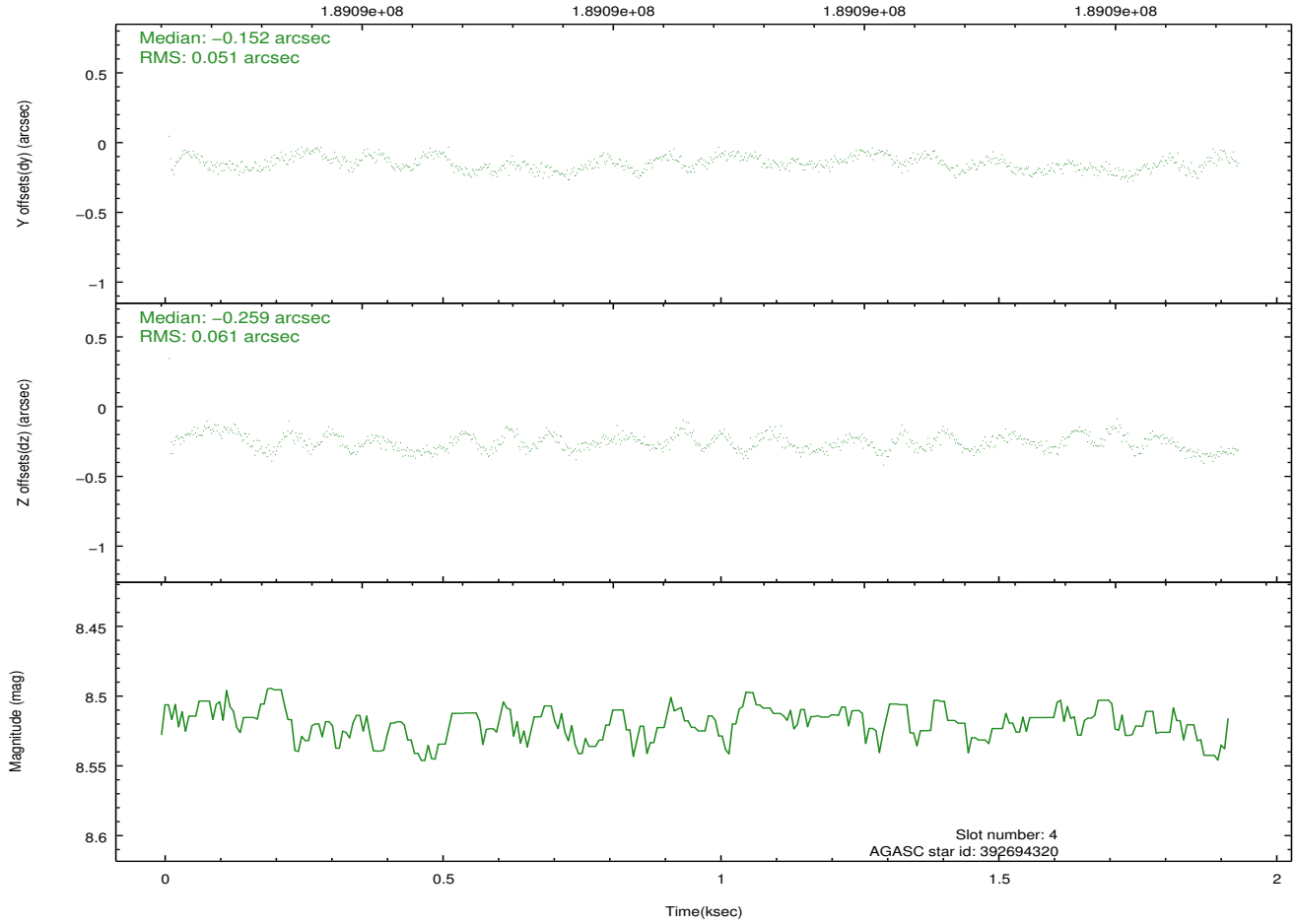
2.4.1 Slot 3



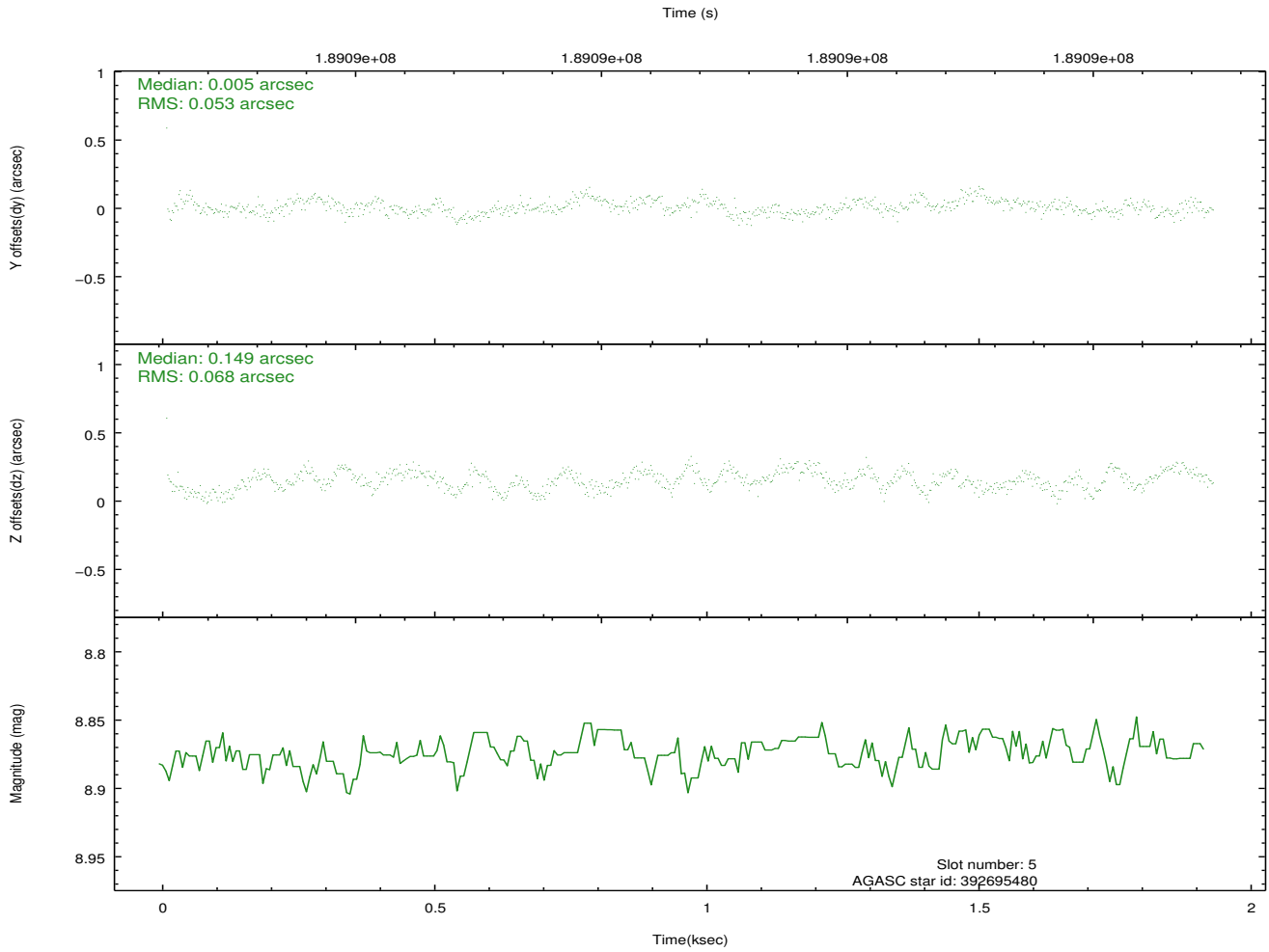
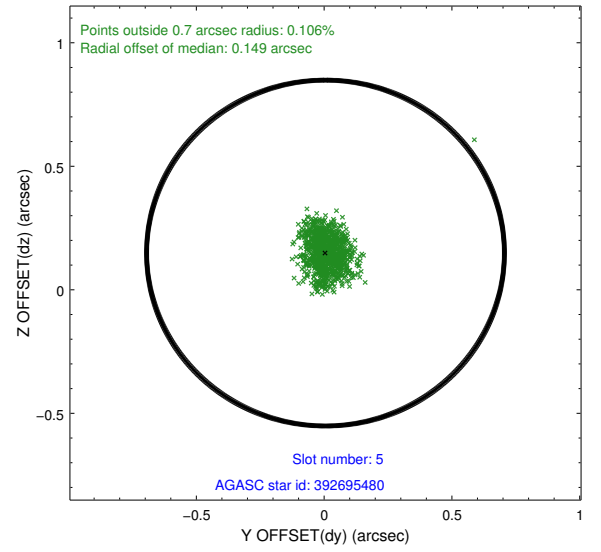
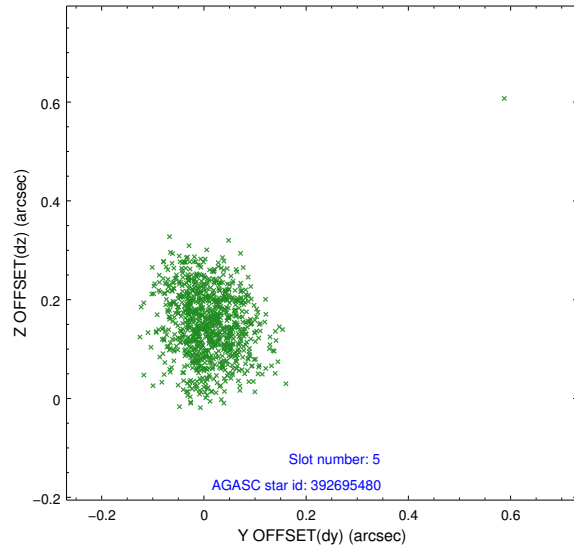
2.4.2 Slot 4



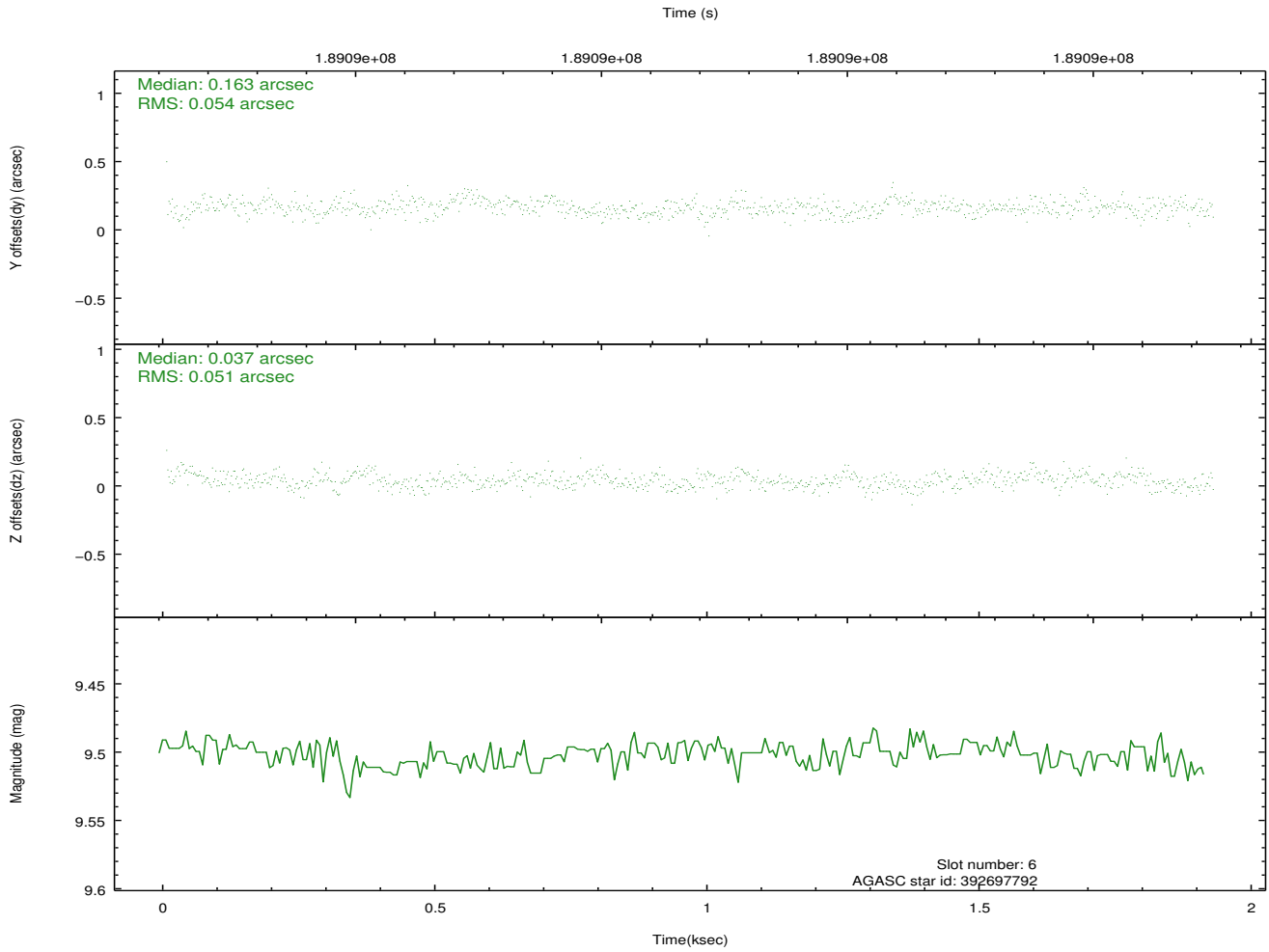
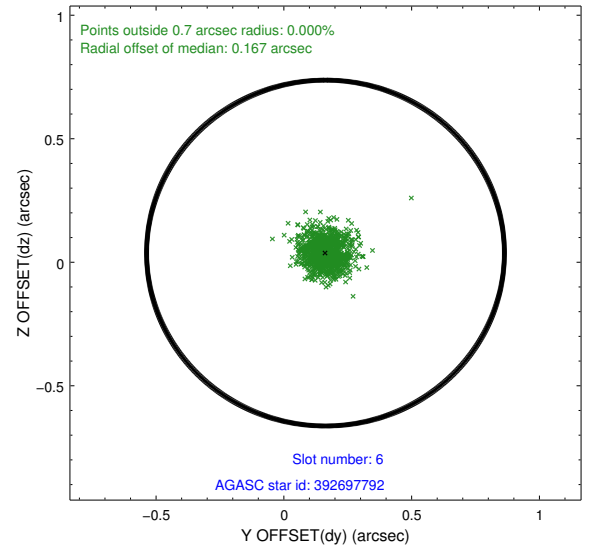
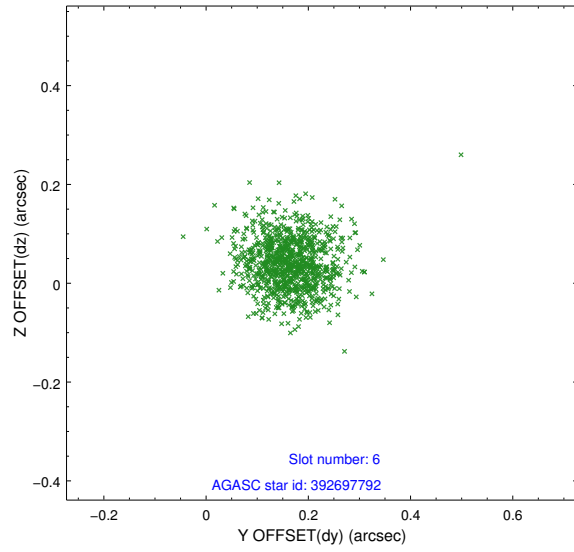
Time (s)



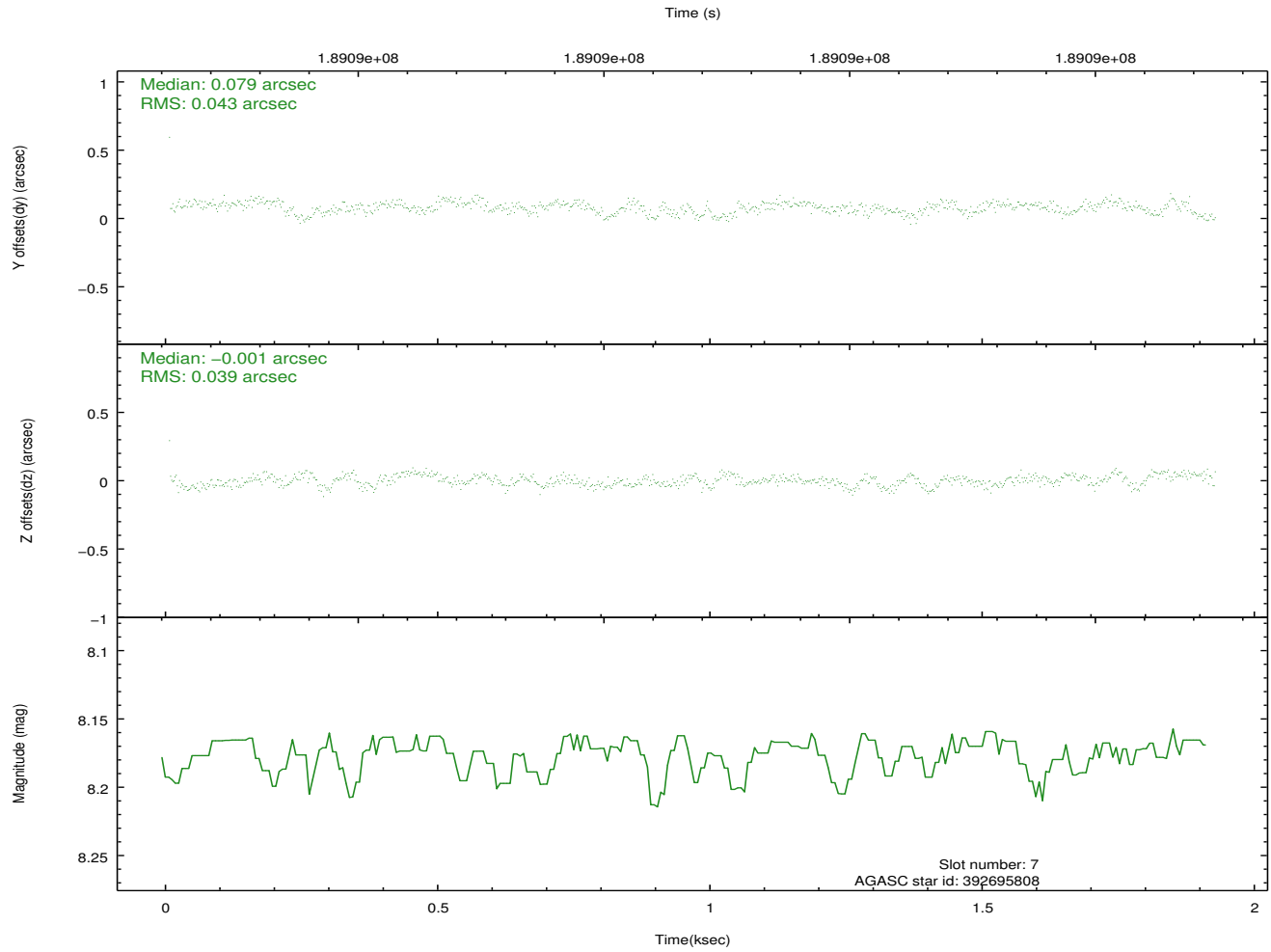
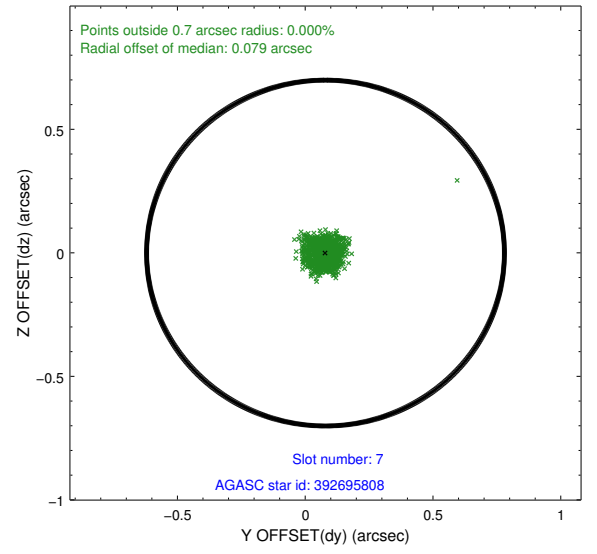
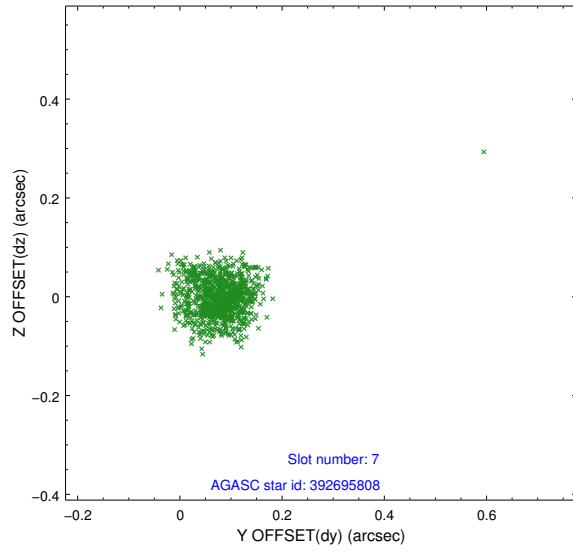
2.4.3 Slot 5



2.4.4 Slot 6

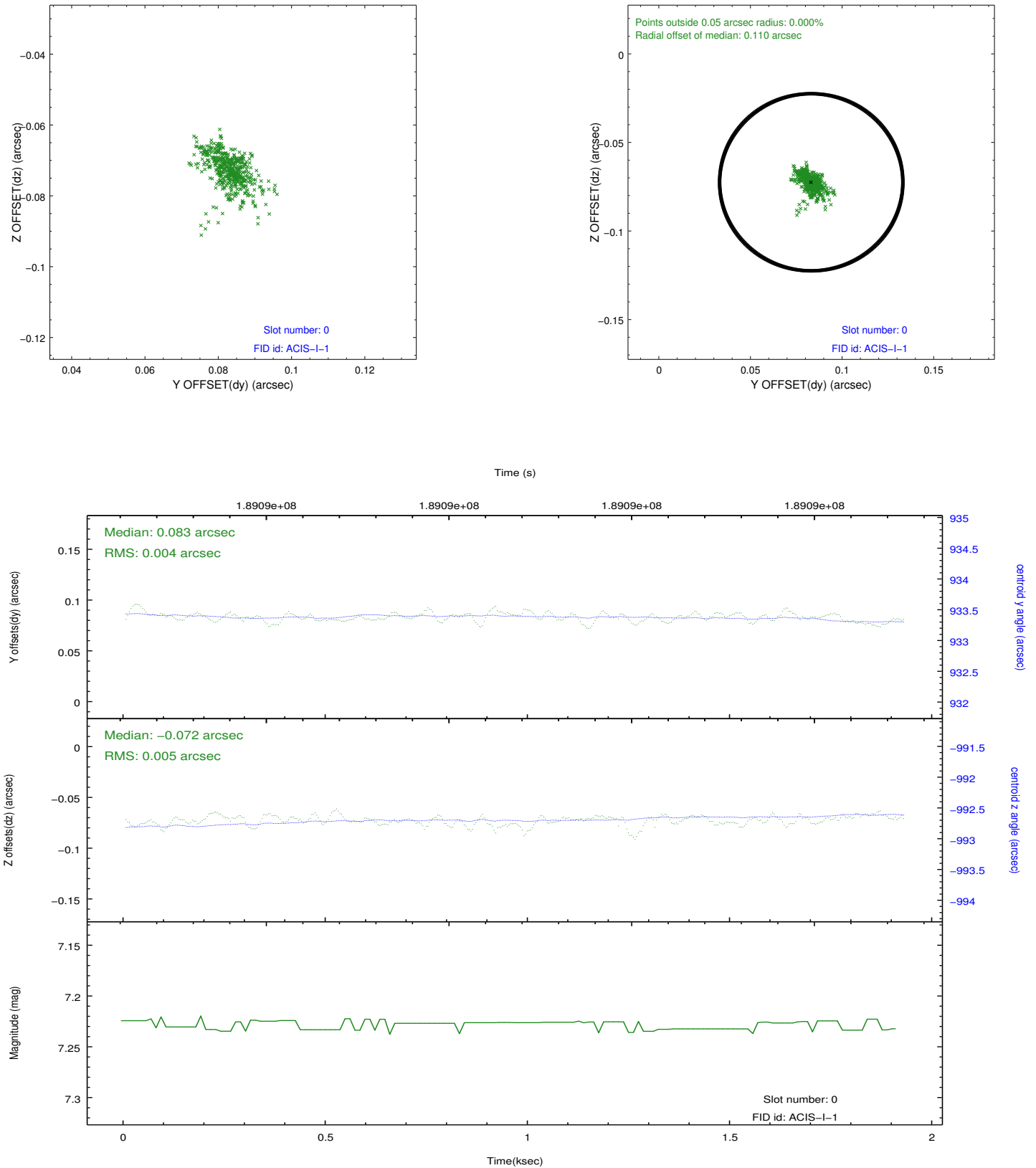


2.4.5 Slot 7

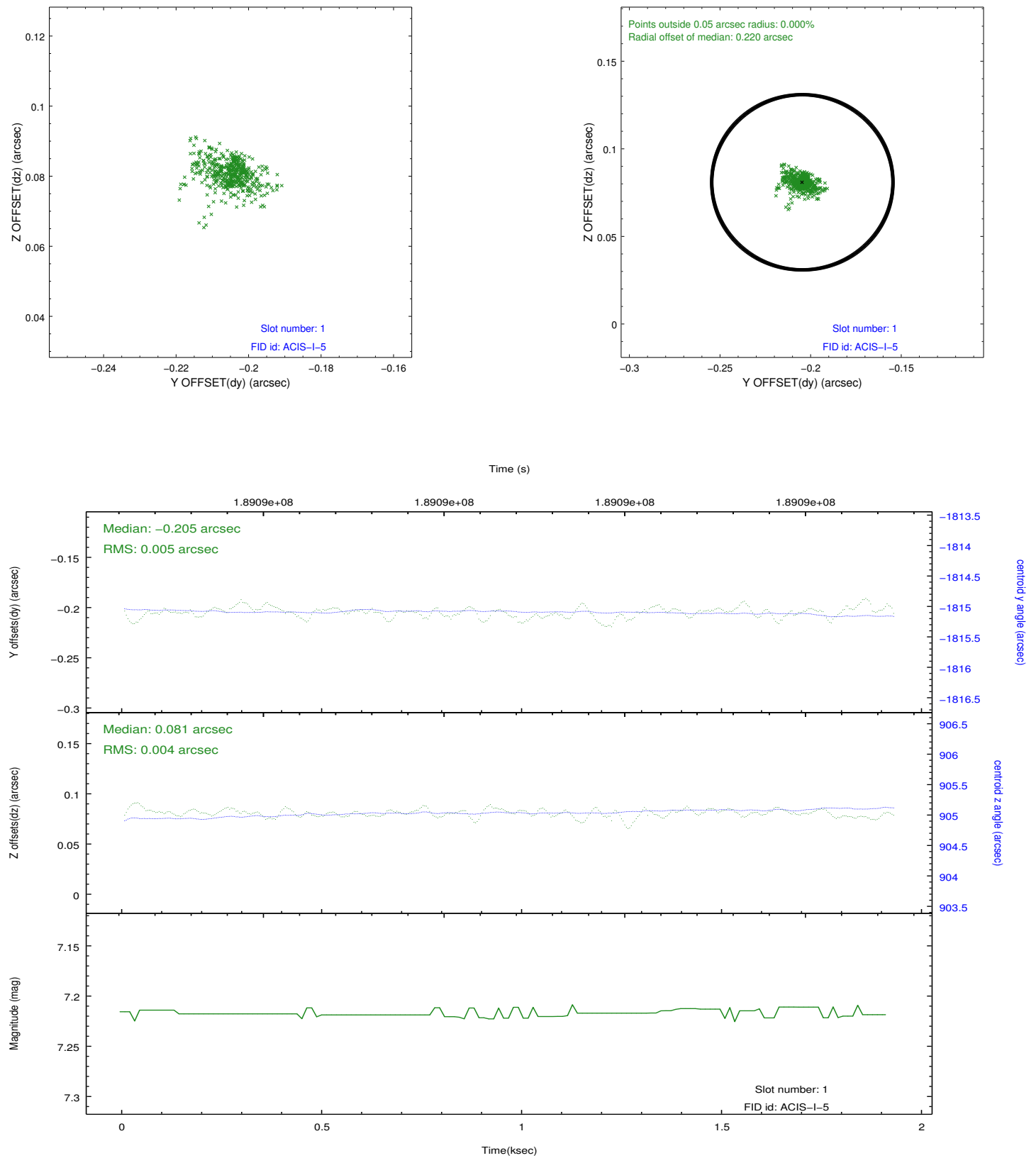


2.5 FID Slots

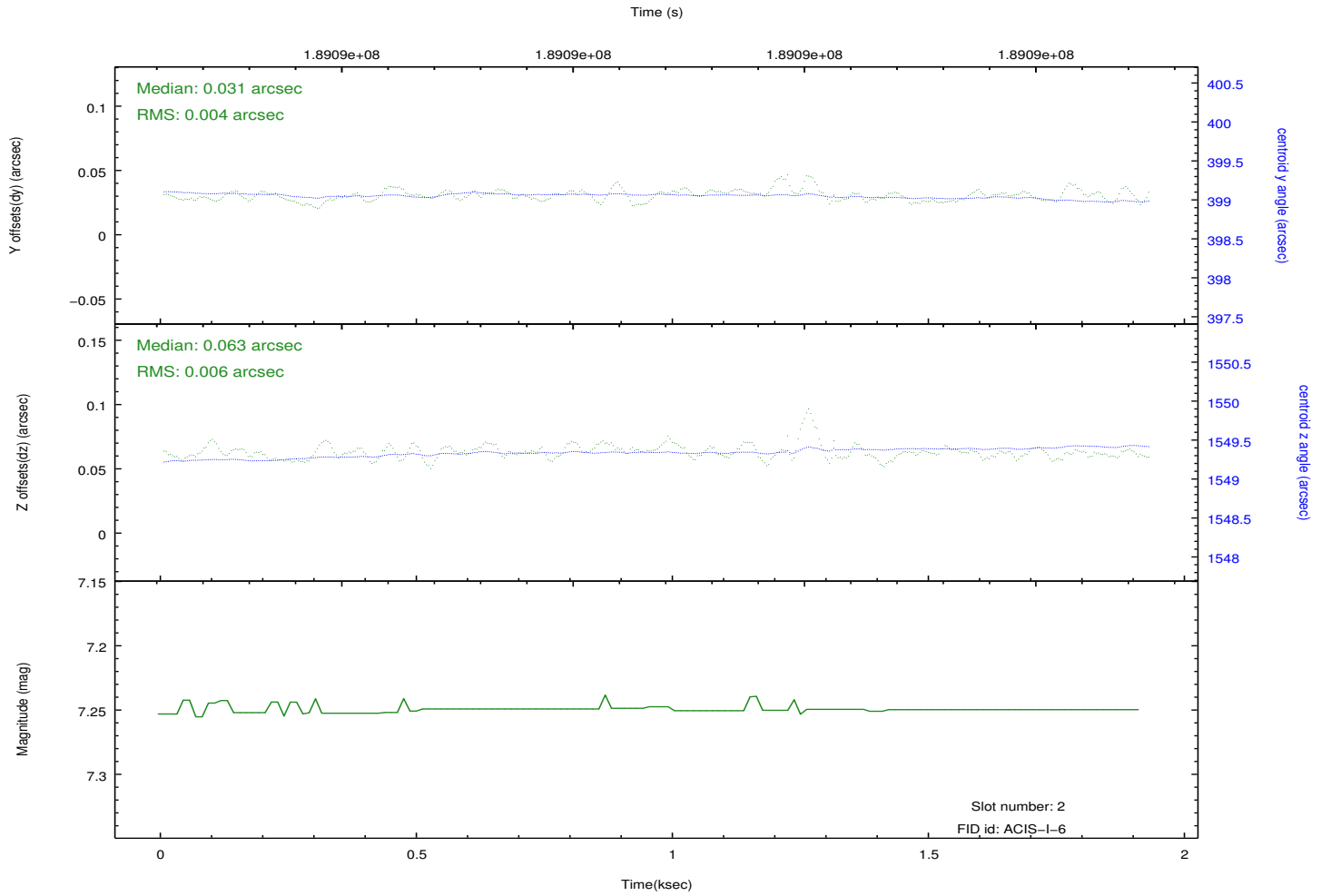
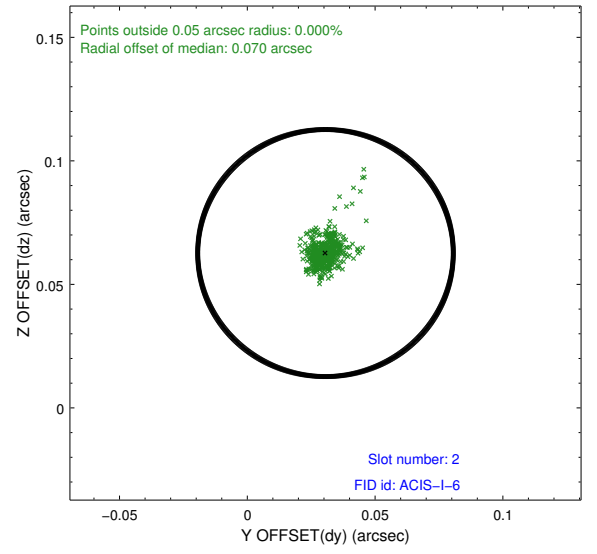
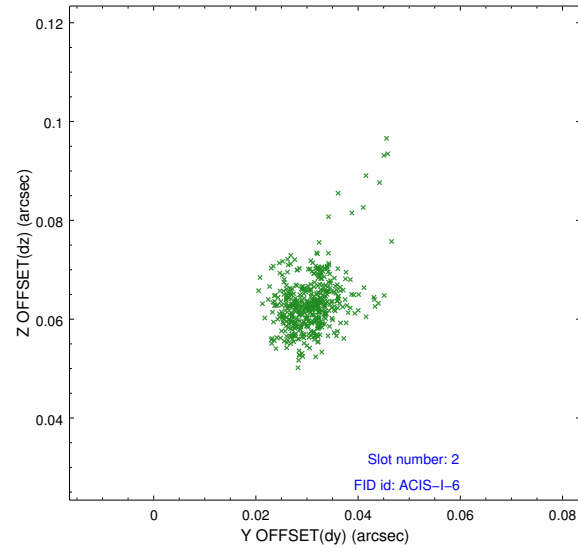
2.5.1 Slot 0



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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.72

A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.