

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13401 - L2 Version 2
Chandra X-Ray Center

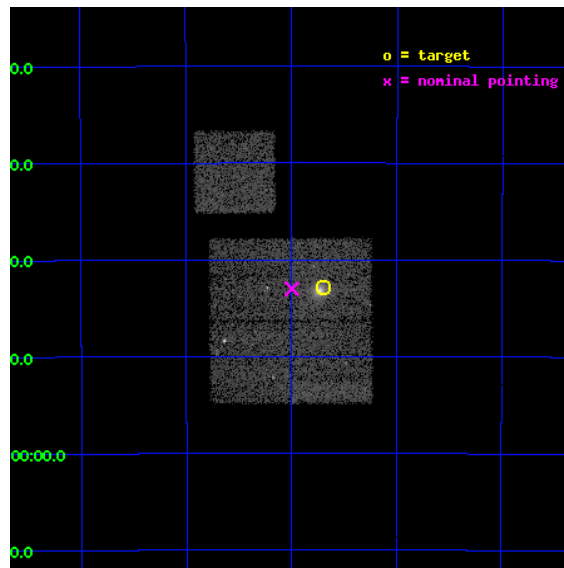
L2 Processing Date : Feb 23 2012

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1 Front

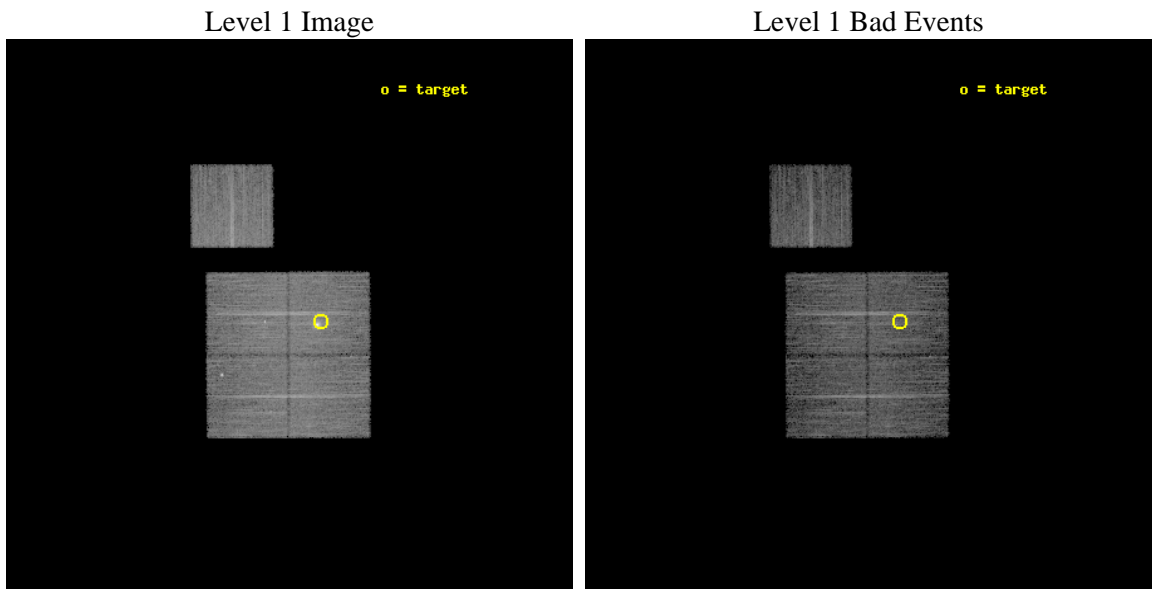
seq_num	801088	Sequence number
obs_id	13401	Observation id
title	Chandra Observation of the Most Massive Galaxy Clusters Detected in the South Pole Telescope Survey	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	SPT-CLJ2344-4242	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	356.175	Observer's specified target RA [deg]
dec_targ	-42.714611	Observer's specified target Dec [deg]
ra_nom	356.24901277006	Nominal RA [deg]
dec_nom	-42.716745011971	Nominal Dec [deg]
roll_nom	359.778845646	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12055.859062433	Sum of GTIs [s]
livetime	11898.340388388	Livetime [s]
ontime0	12052.718042135	Sum of GTIs [s]
ontime1	12052.718061984	Sum of GTIs [s]
ontime2	12055.859062433	Sum of GTIs [s]
ontime3	12055.859062433	Sum of GTIs [s]
ontime6	12059.000092745	Sum of GTIs [s]
l2events	45486	Number of level 2 events



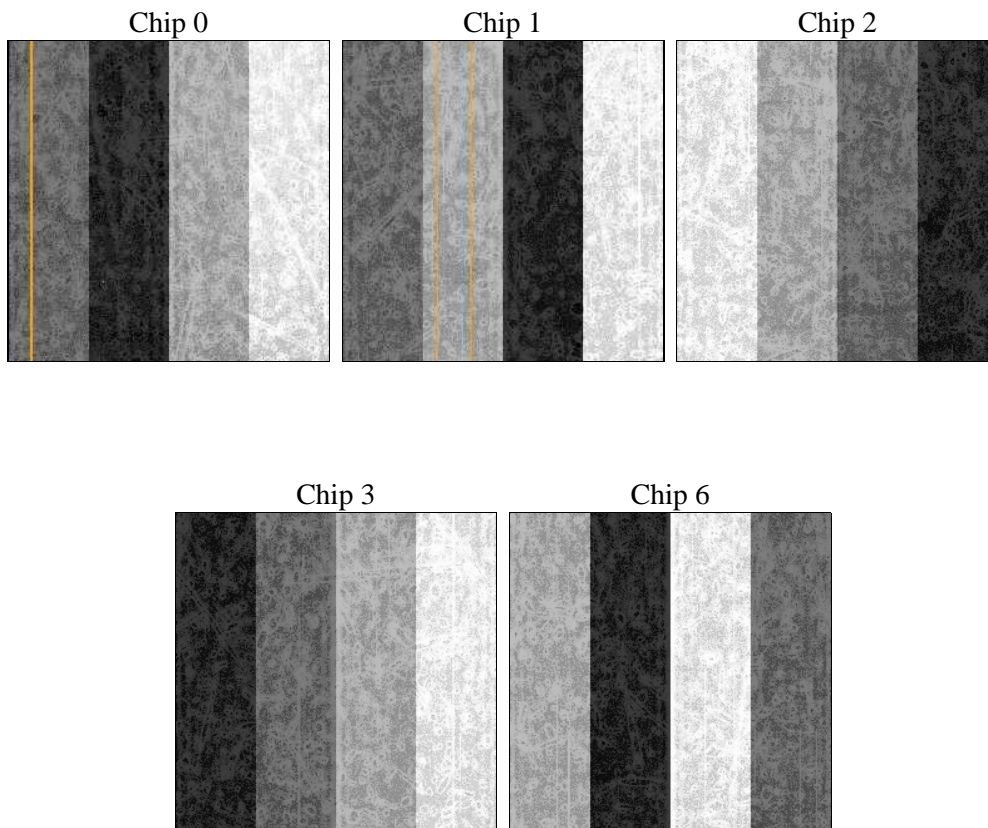
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	12055.859062433	Sum of GTIs [s]
caldbver	4.4.8	 	ontime0	12052.718042135	Sum of GTIs [s]
date	2012-02-23T03:40:32	Date and time of file creation	ontime1	12052.718061984	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	12055.859062433	Sum of GTIs [s]
			ontime3	12055.859062433	Sum of GTIs [s]
			ontime6	12059.000092745	Sum of GTIs [s]
			l1events	372838	Number of level 1 events

2.1.4 Events

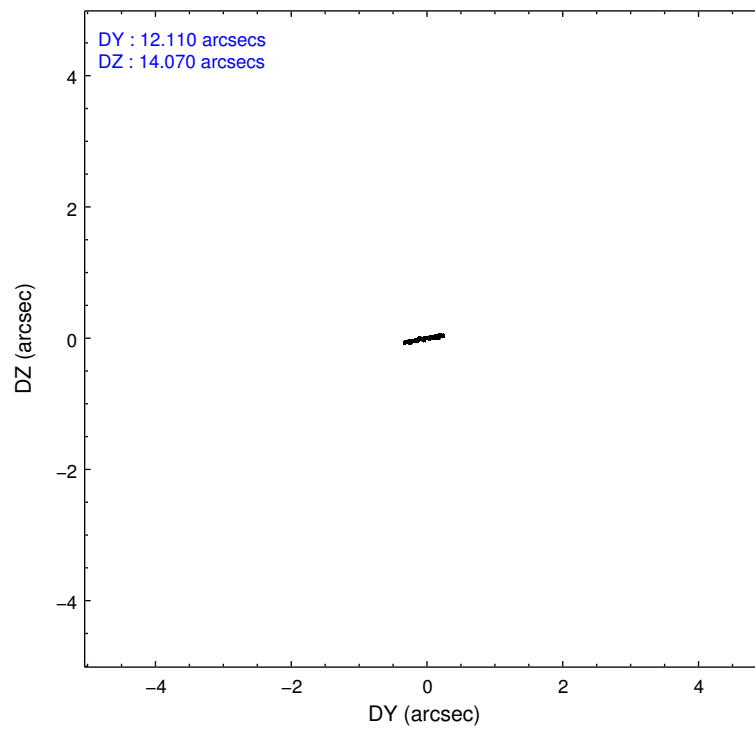
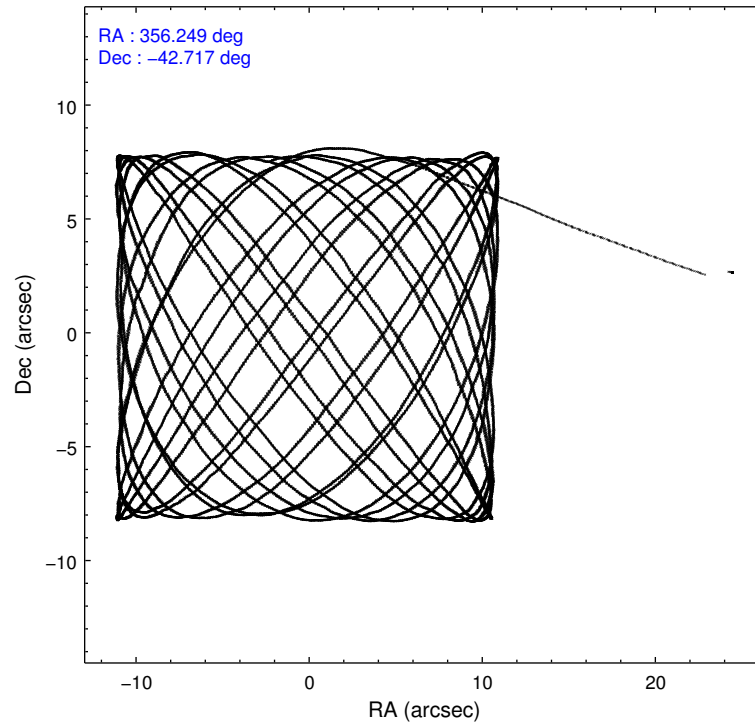
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	68259	71301	77544	81846	73888
rejected events	58803	61657	68793	65208	65315
rejected %	86%	86%	88%	79%	88%

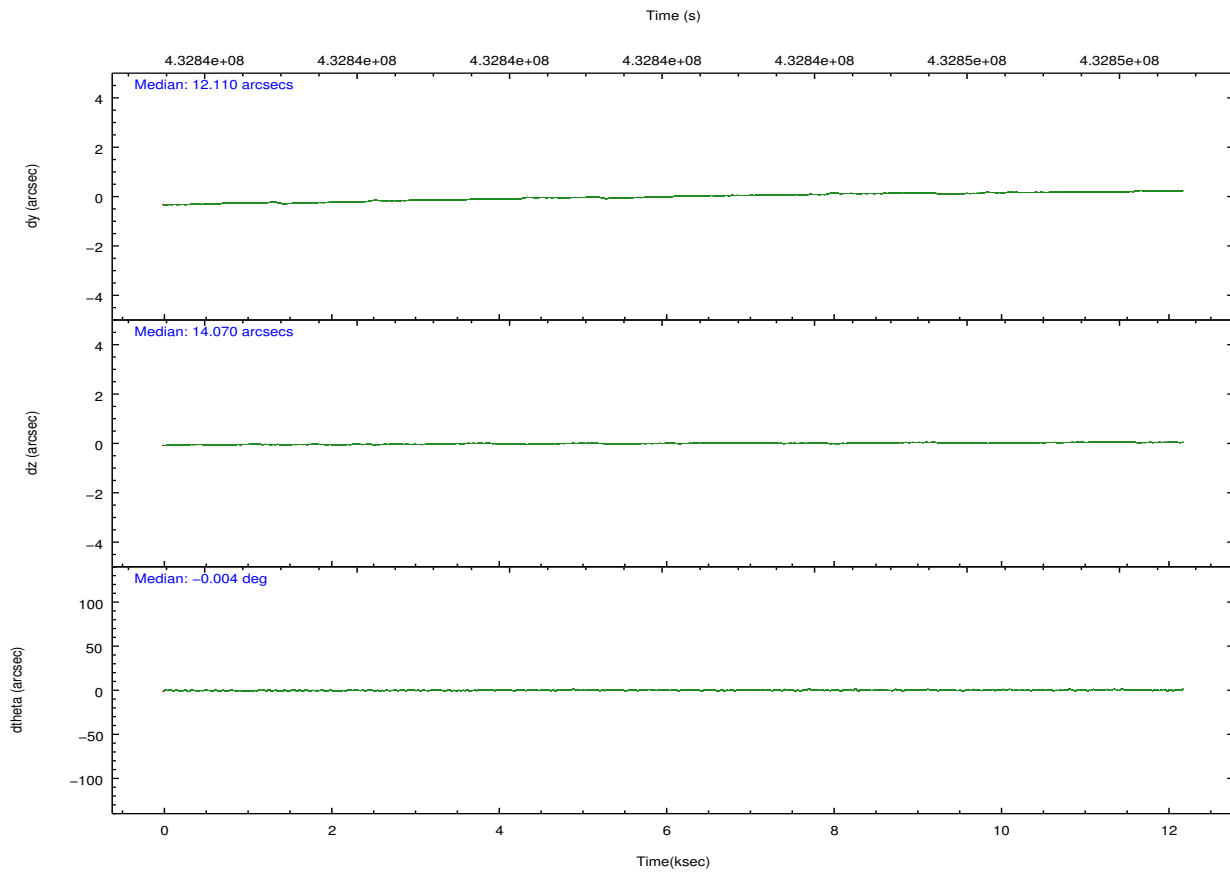
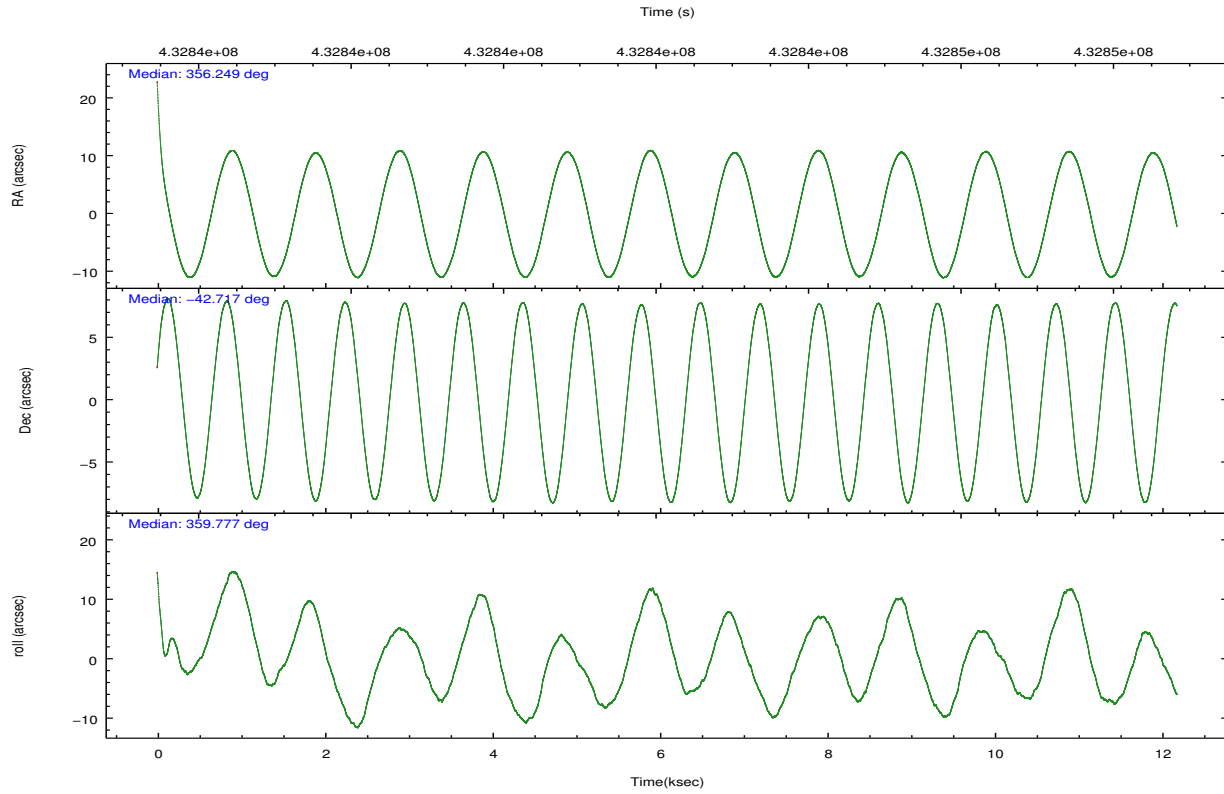
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3673	3302	3371	9797	2946
	5%	4%	4%	11%	3%
grade 1 events	42	33	51	100	43
	0%	0%	0%	0%	0%
grade 2 events	2272	2311	2059	2658	1929
	3%	3%	2%	3%	2%
grade 3 events	937	979	864	1081	896
	1%	1%	1%	1%	1%
grade 4 events	856	980	876	1197	877
	1%	1%	1%	1%	1%
grade 5 events	3354	3521	3145	3874	3679
	4%	4%	4%	4%	4%
grade 6 events	1721	2078	1585	1914	1929
	2%	2%	2%	2%	2%
grade 7 events	55404	58097	65593	61225	61589
	81%	81%	84%	74%	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	356.216578	356.2490127700634	CCD I2 on	Y	Y
[deg] Pointing Dec	-42.730529	-42.71674501197071	CCD I3 on	Y	Y
[deg] Pointing Roll	359.548146	359.778845645996	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	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	432836230.184000	432834590.06358	CCD S5 on	N	N
Observation start date	2011-09-19T16:16:04	2011-09-19T15:49:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	432848230.184000	432848853.96432	On-chip summing requested	N	N
Observation end date	2011-09-19T19:36:04	2011-09-19T19:47:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



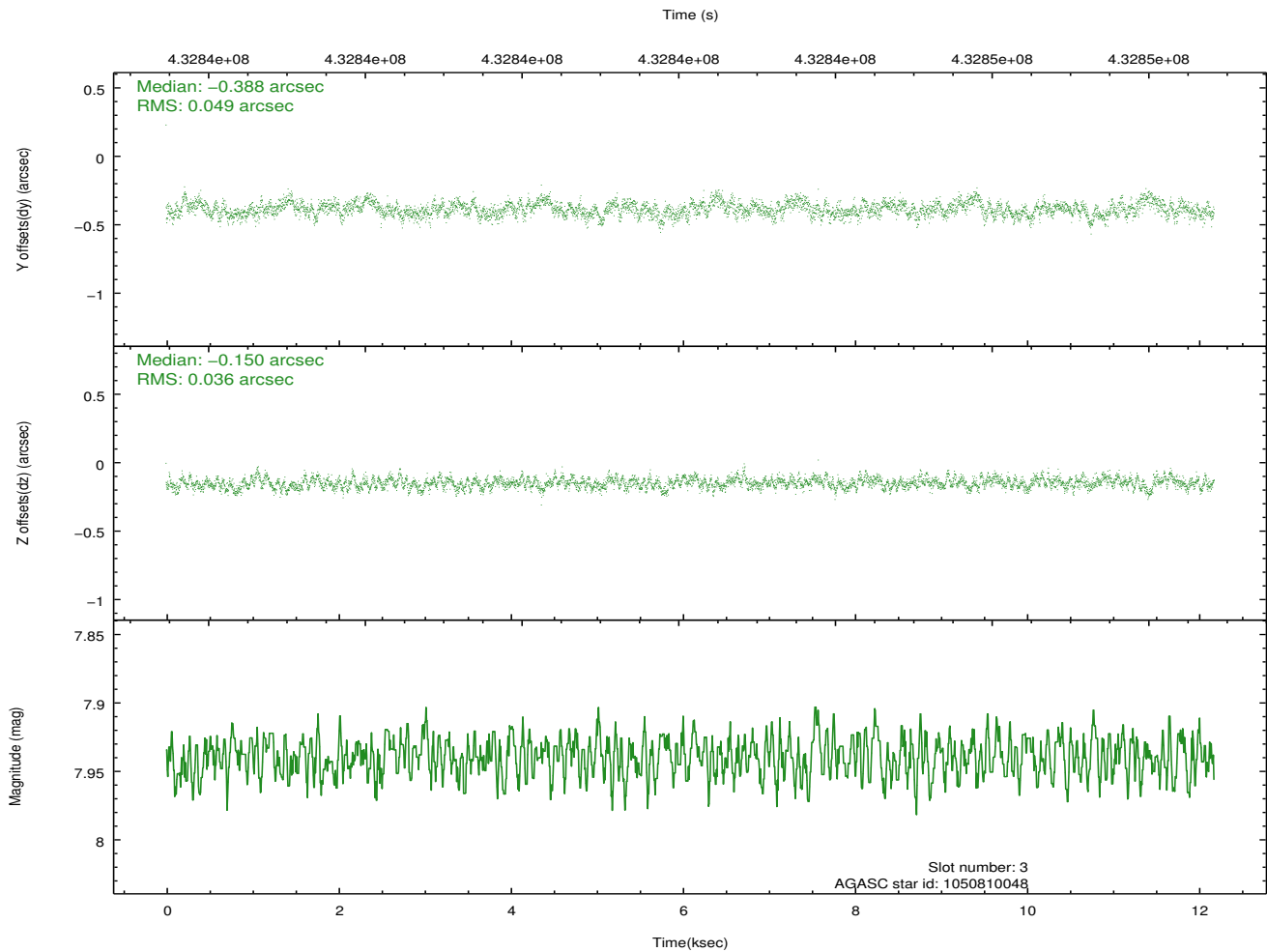
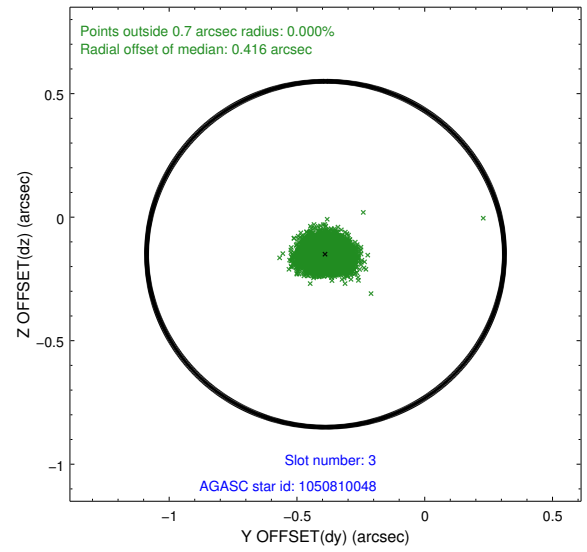
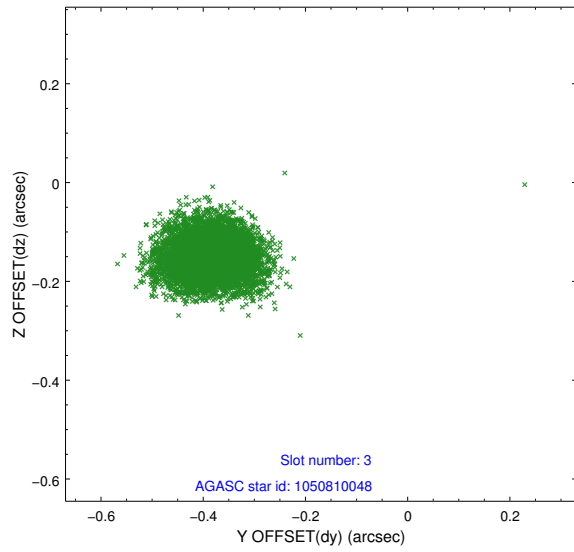


Slot Statistics

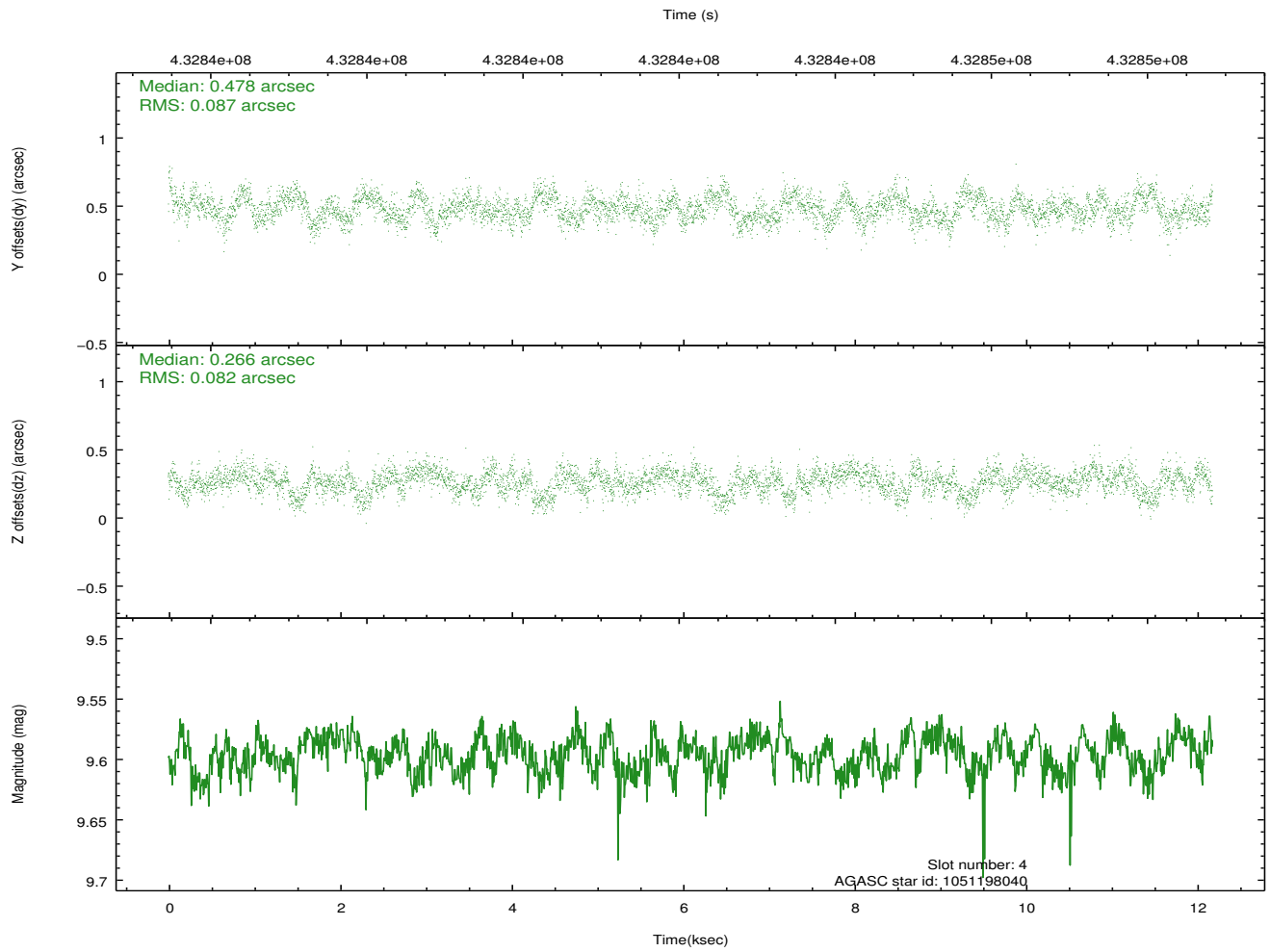
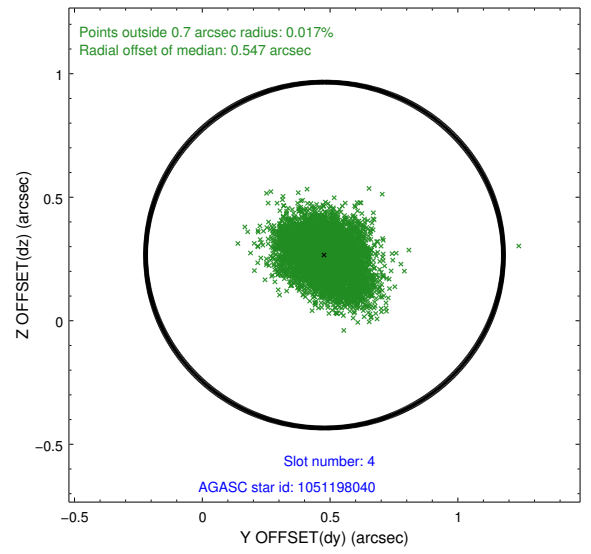
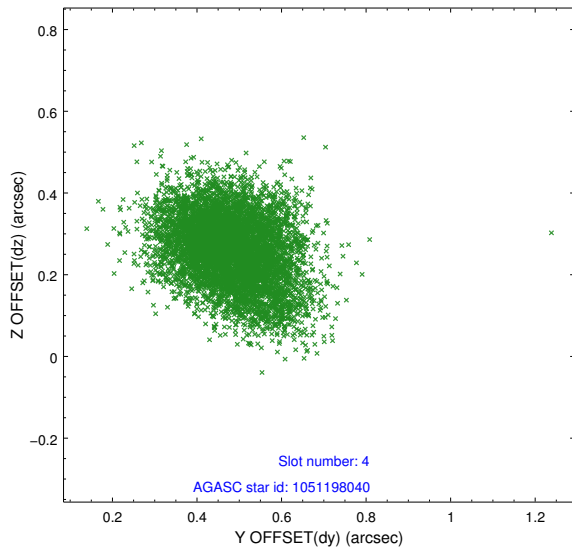
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	2972	0.105	-0.074	0.006	0.011	0.000000	0.000000	927.43	-996.77
1	FID	ACIS-I-5	7.02	2972	-0.265	0.088	0.008	0.013	0.000000	0.000000	-1820.87	900.55
2	FID	ACIS-I-6	7.04	2972	0.068	0.056	0.007	0.012	0.000000	0.000000	392.43	1545.55
3	GUIDE	1050810048	7.94	5943	-0.388	-0.150	0.064	0.104	356.469230	-42.341180	661.30	1405.82
4	GUIDE	1051198040	9.60	5930	0.478	0.266	0.127	0.208	355.390308	-42.851948	-2176.16	-464.47
5	GUIDE	1051204328	9.94	5937	-0.014	0.018	0.168	0.275	355.958163	-43.245581	-661.36	-1860.08
6	GUIDE	1051205696	8.12	5943	-0.039	-0.130	0.088	0.145	356.065268	-43.024313	-389.60	-1060.88
7	GUIDE	1051205736	9.61	5923	-0.047	0.007	0.172	0.266	356.603876	-43.253982	1031.00	-1878.90

2.4 Star Slots

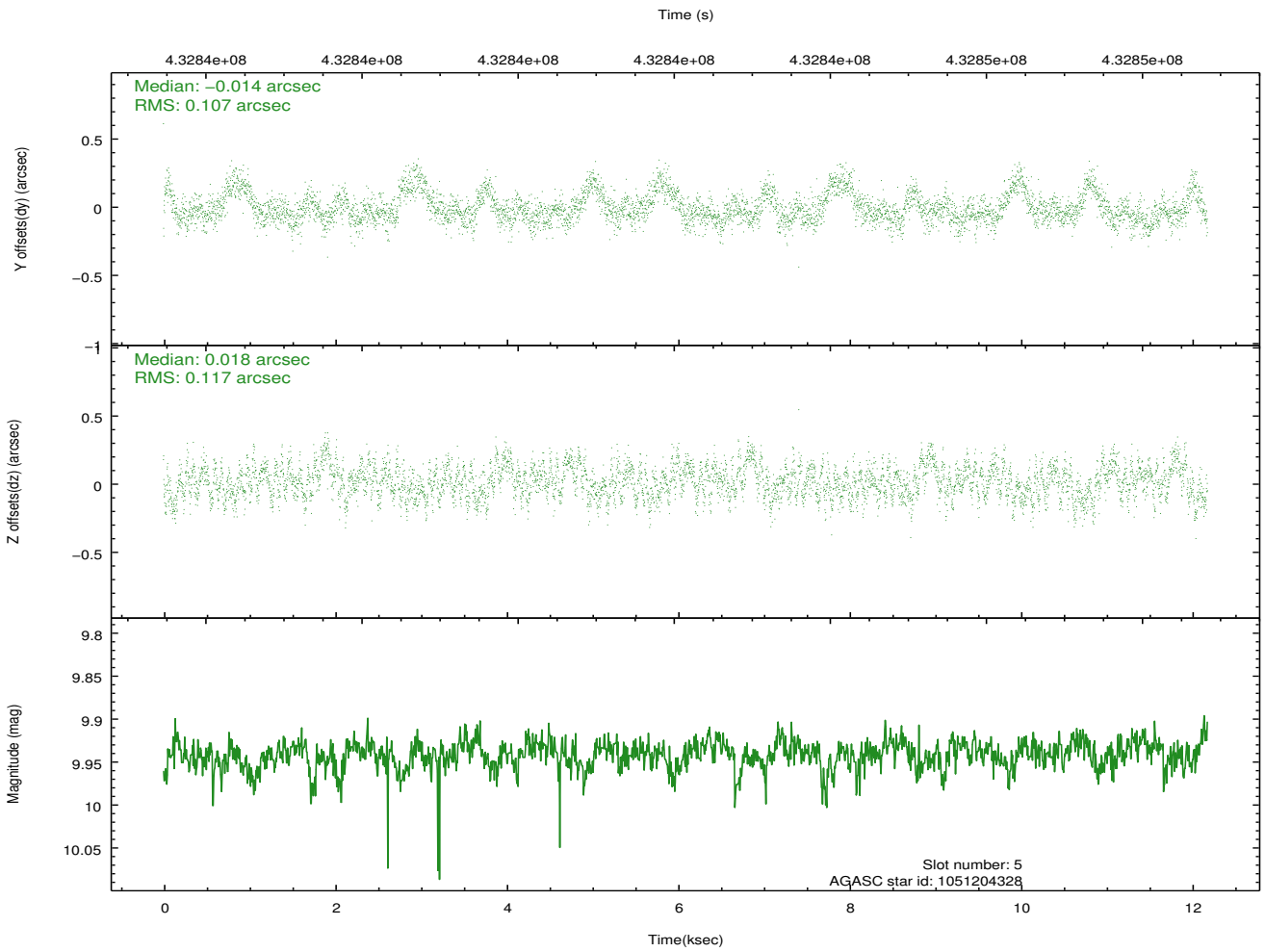
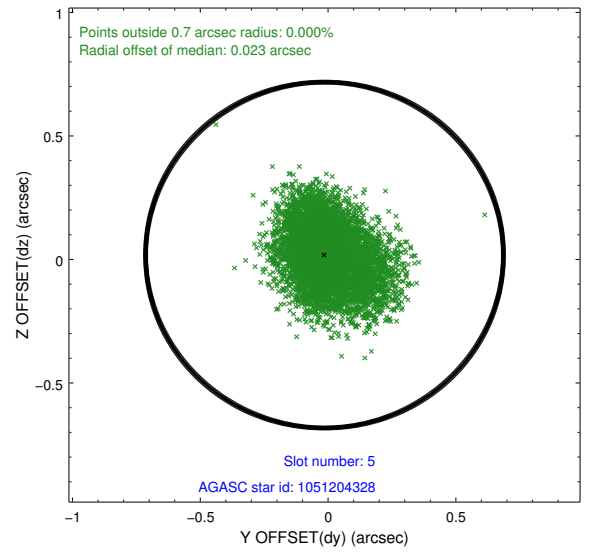
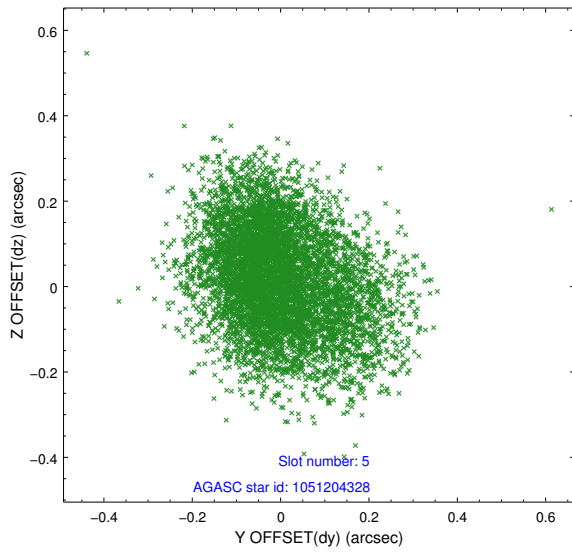
2.4.1 Slot 3



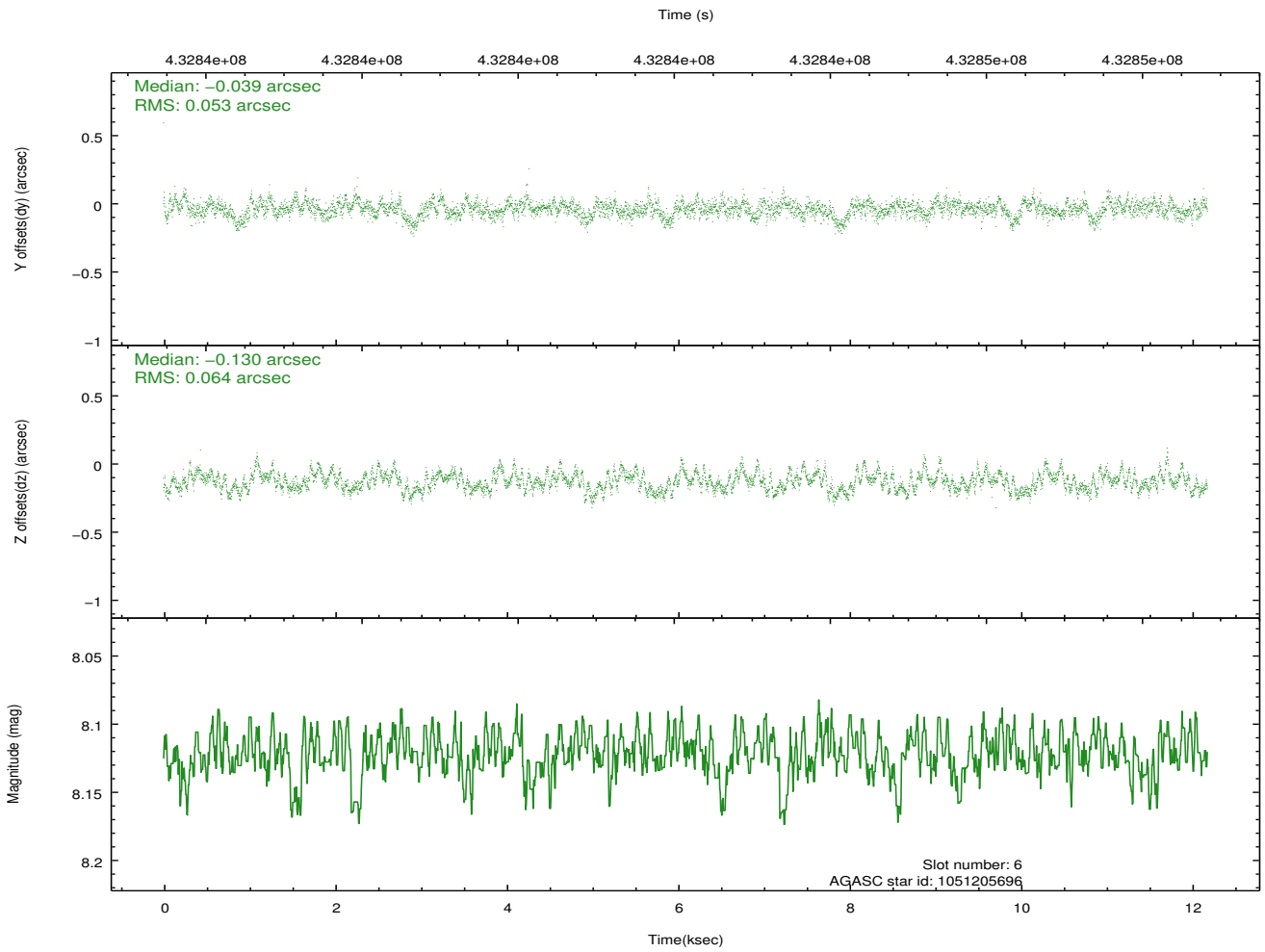
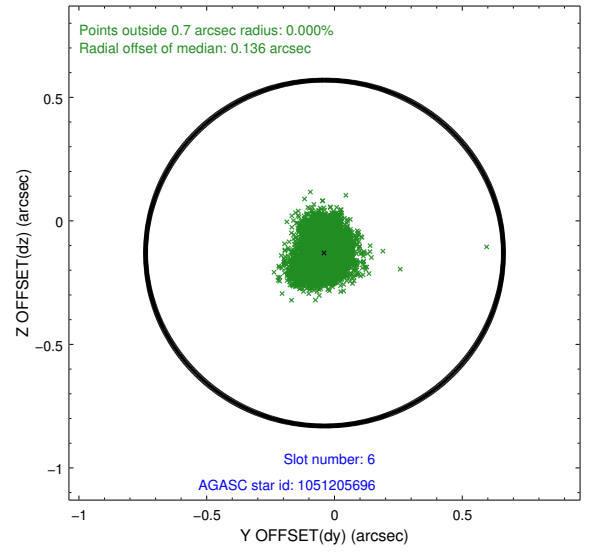
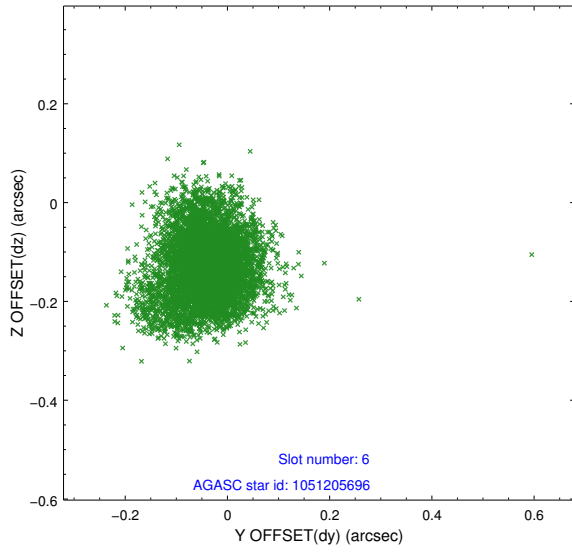
2.4.2 Slot 4



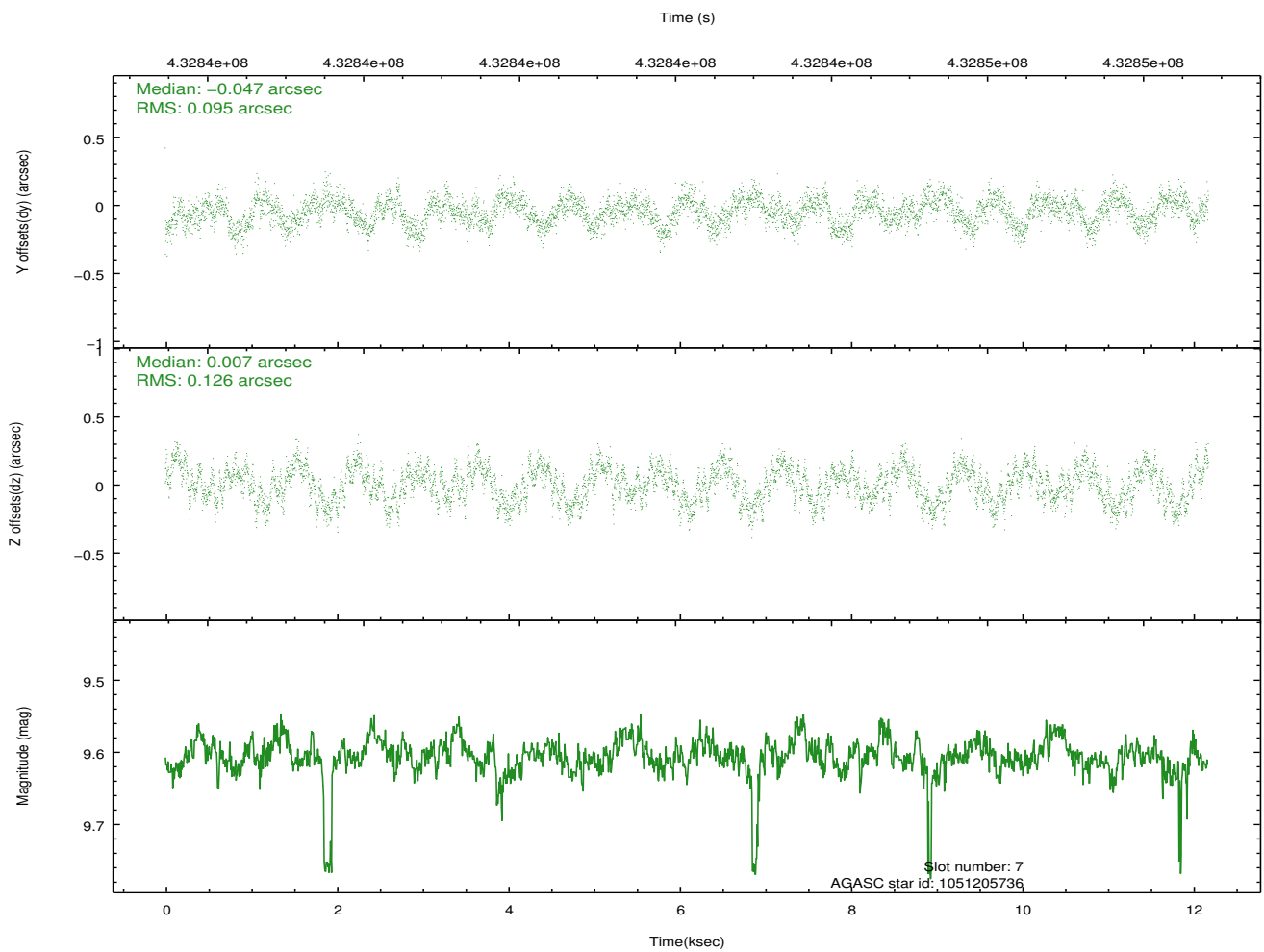
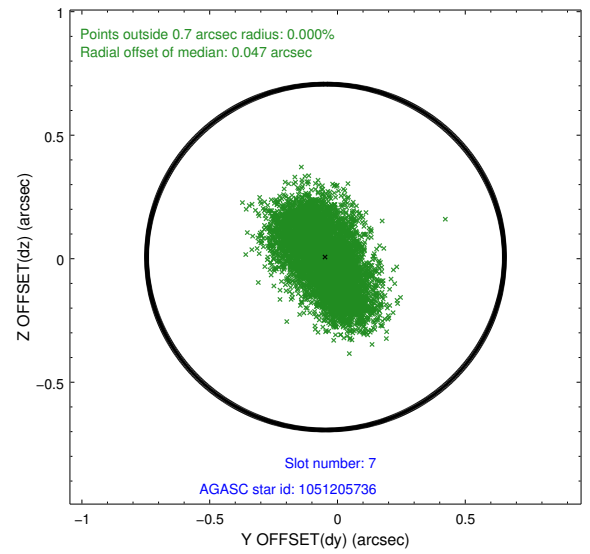
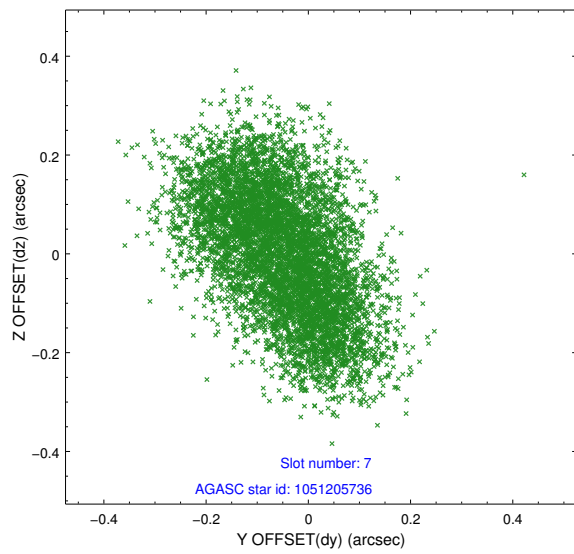
2.4.3 Slot 5



2.4.4 Slot 6

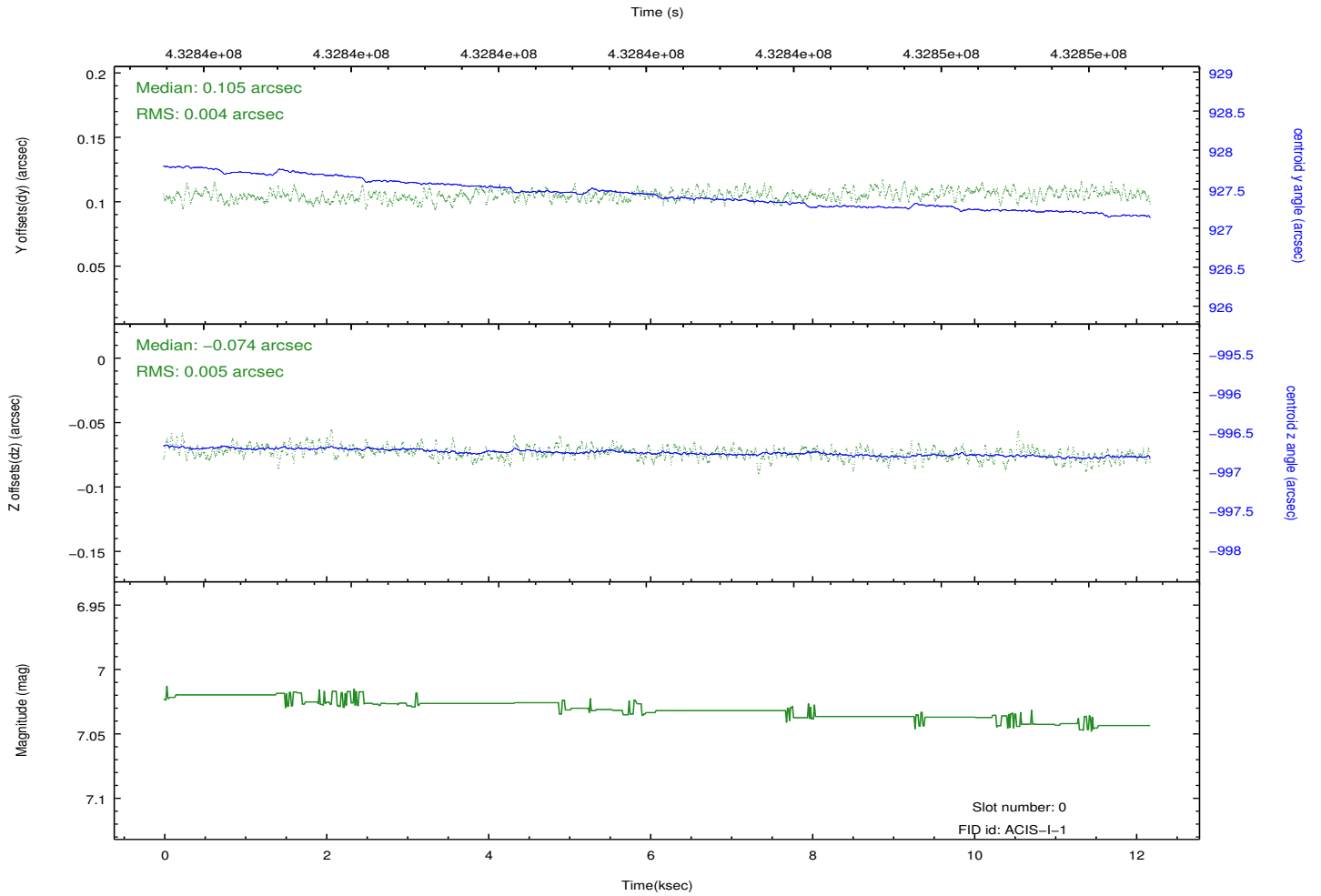
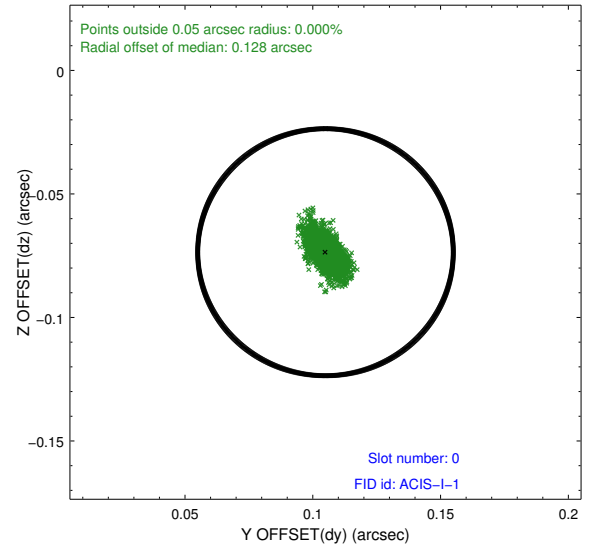
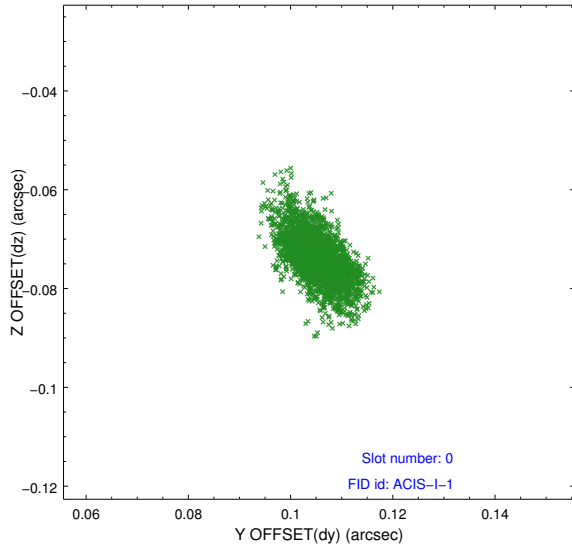


2.4.5 Slot 7

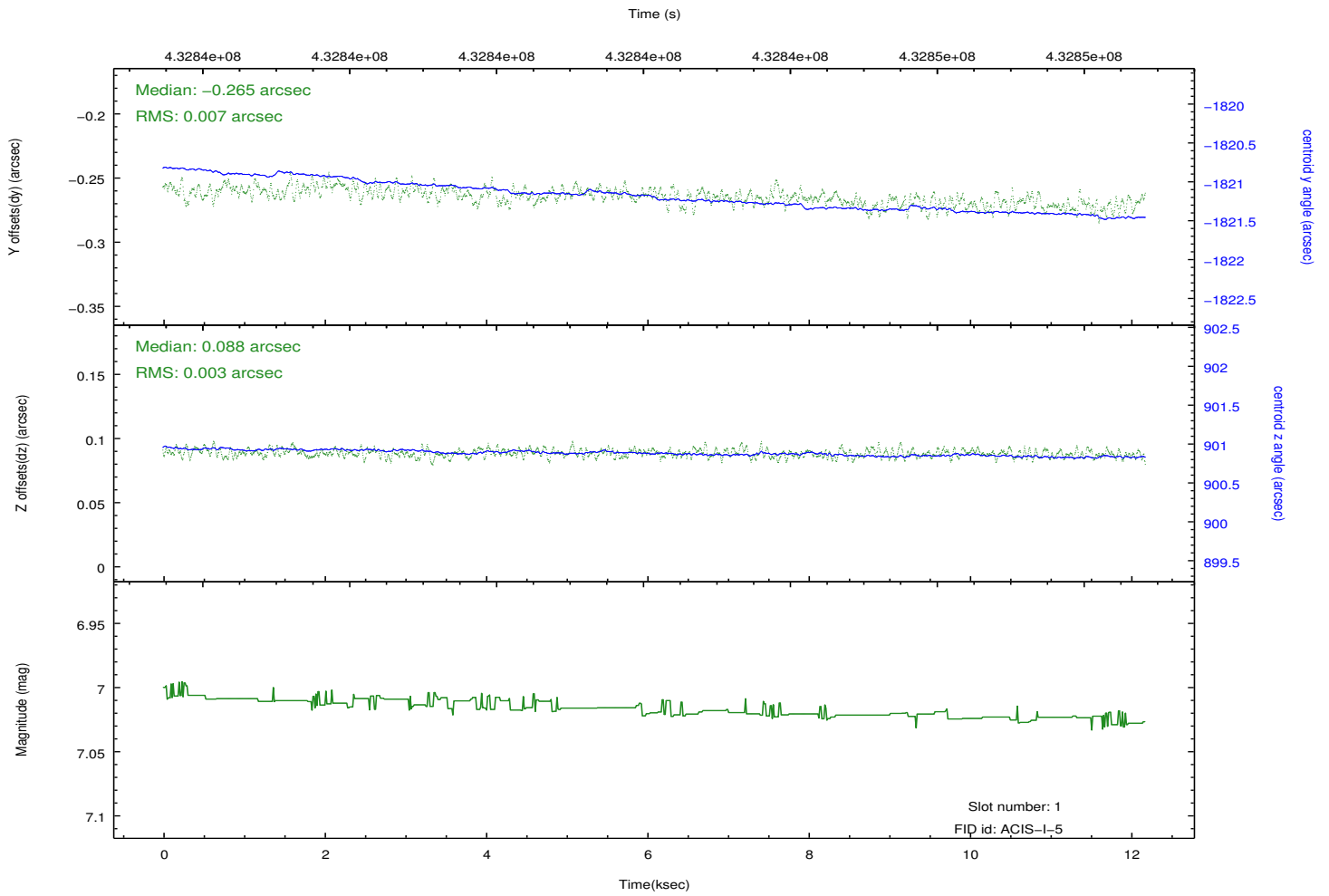
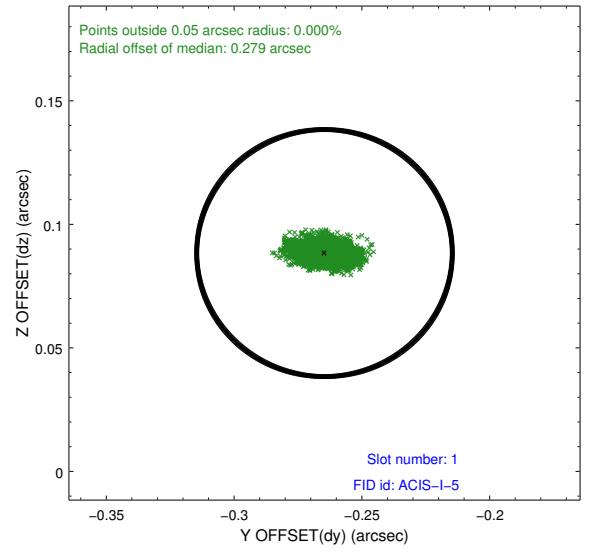
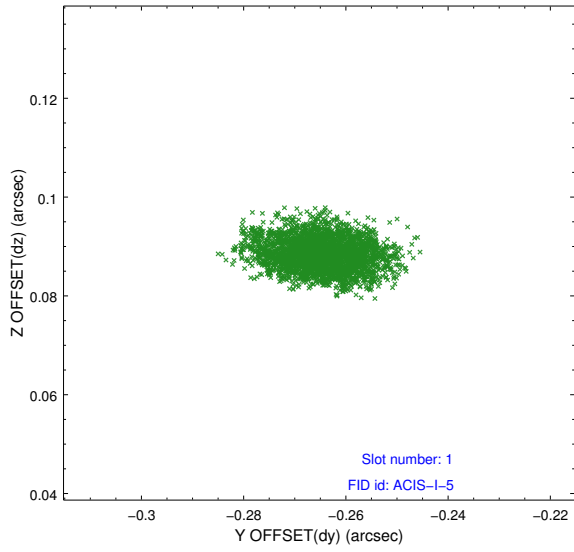


2.5 FID Slots

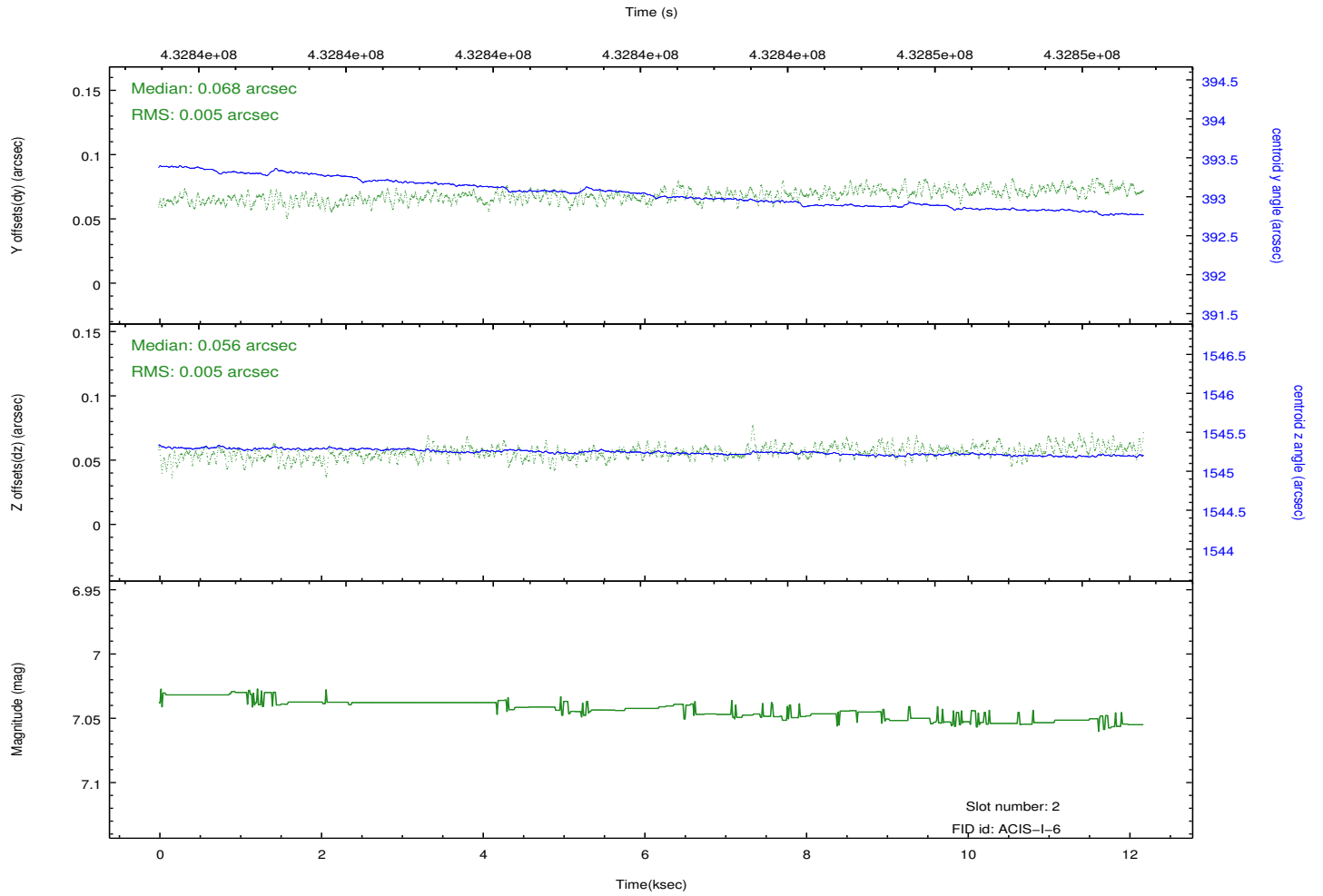
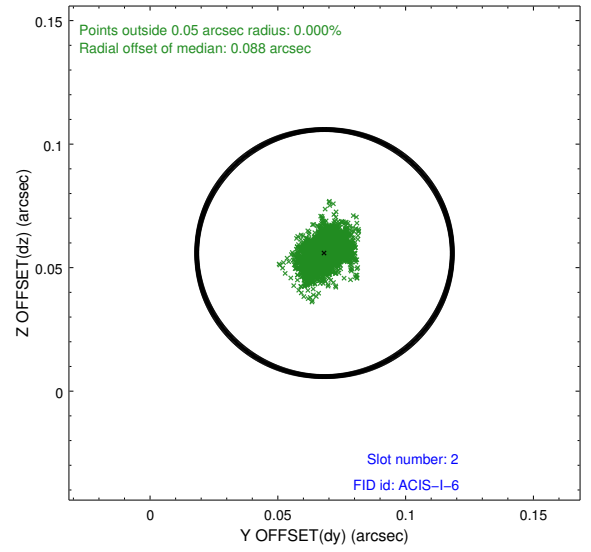
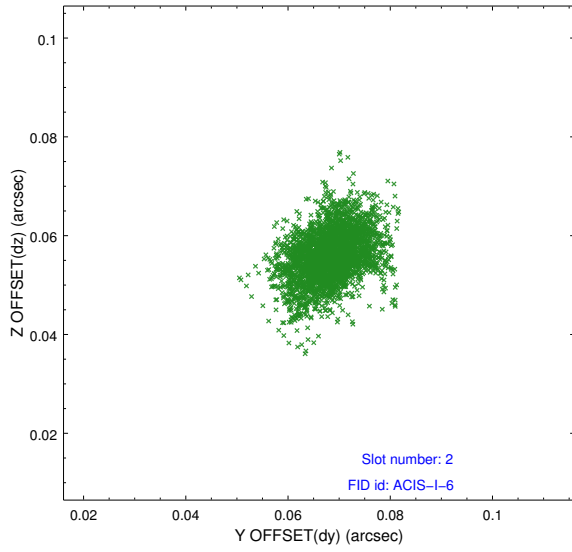
2.5.1 Slot 0



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)	2012.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.055859062493

A.2 Comments