

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10427 - L2 Version 2
Chandra X-Ray Center

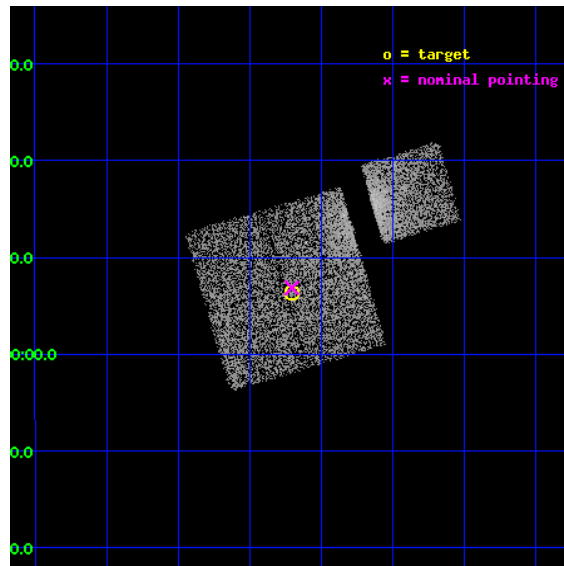
L2 Processing Date : May 31 2012

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1 Front

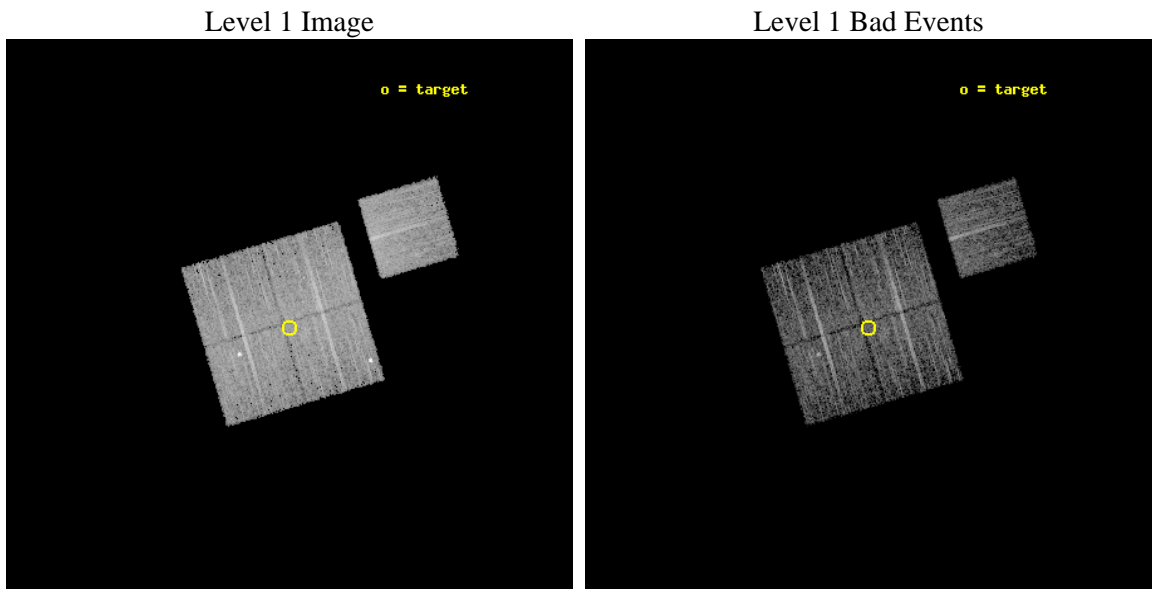
seq_num	800788	Sequence number
obs_id	10427	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A1650	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.80165	Observer's specified target RA [deg]
dec_targ	-1.89388	Observer's specified target Dec [deg]
ra_nom	194.80151131449	Nominal RA [deg]
dec_nom	-1.8857178888456	Nominal Dec [deg]
roll_nom	73.608686927757	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4776.0347960591	Sum of GTIs [s]
livetime	4713.632385383	Livetime [s]
ontime0	4775.9116760492	Sum of GTIs [s]
ontime1	4775.9527160525	Sum of GTIs [s]
ontime2	4775.9937560558	Sum of GTIs [s]
ontime3	4776.0347960591	Sum of GTIs [s]
ontime6	4775.8706360459	Sum of GTIs [s]
l2events	22265	Number of level 2 events



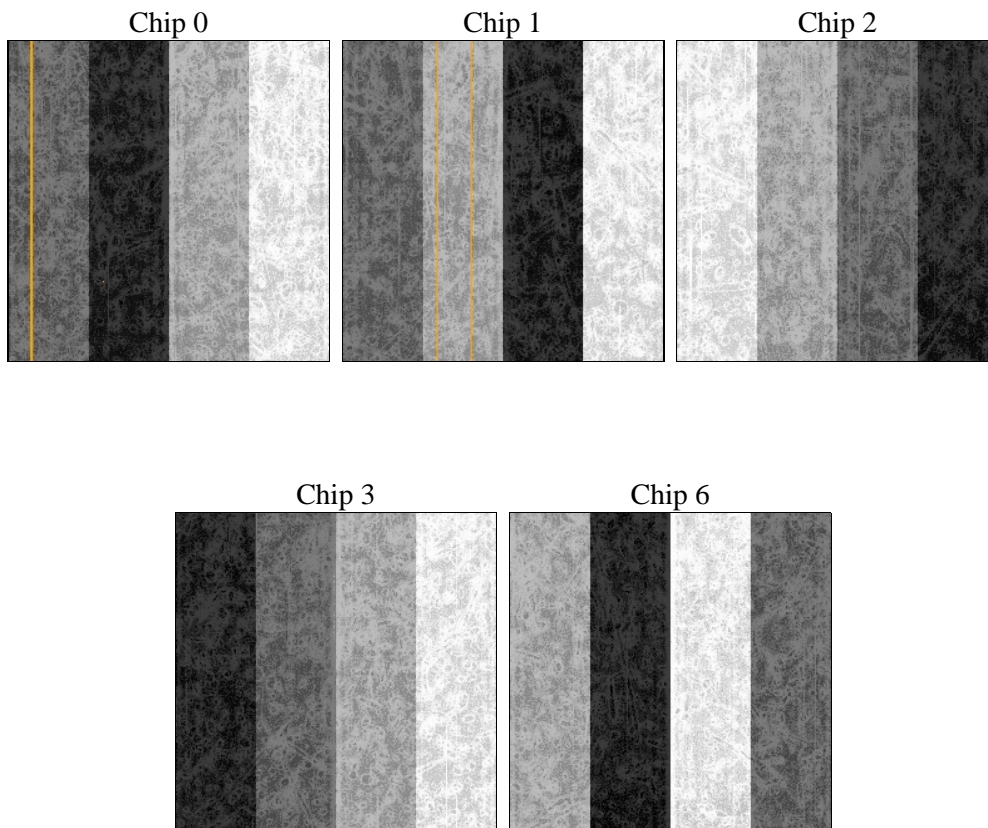
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4776.0347960591	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4775.9116760492	Sum of GTIs [s]
date	2012-05-31T15:00:28	Date and time of file creation	ontime1	4775.9527160525	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4775.9937560558	Sum of GTIs [s]
			ontime3	4776.0347960591	Sum of GTIs [s]
			ontime6	4775.8706360459	Sum of GTIs [s]
			l1events	204760	Number of level 1 events

2.1.4 Events

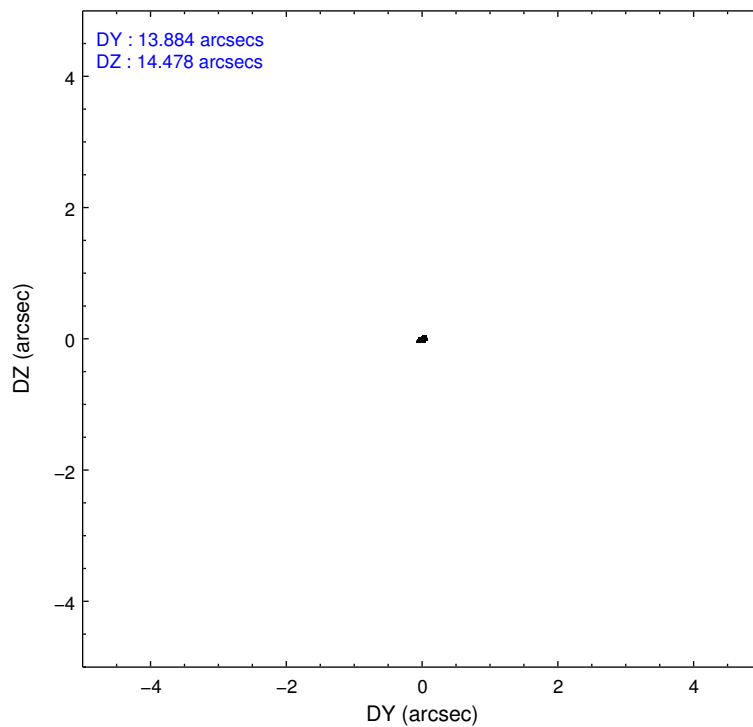
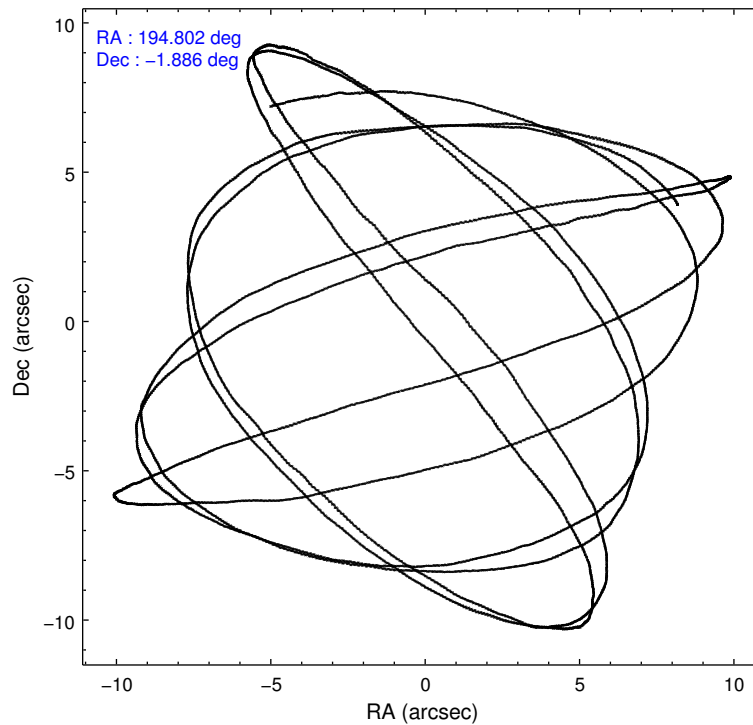
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	37611	39987	43327	41665	42170
rejected events	33459	34141	37373	35921	35230
rejected %	88%	85%	86%	86%	83%

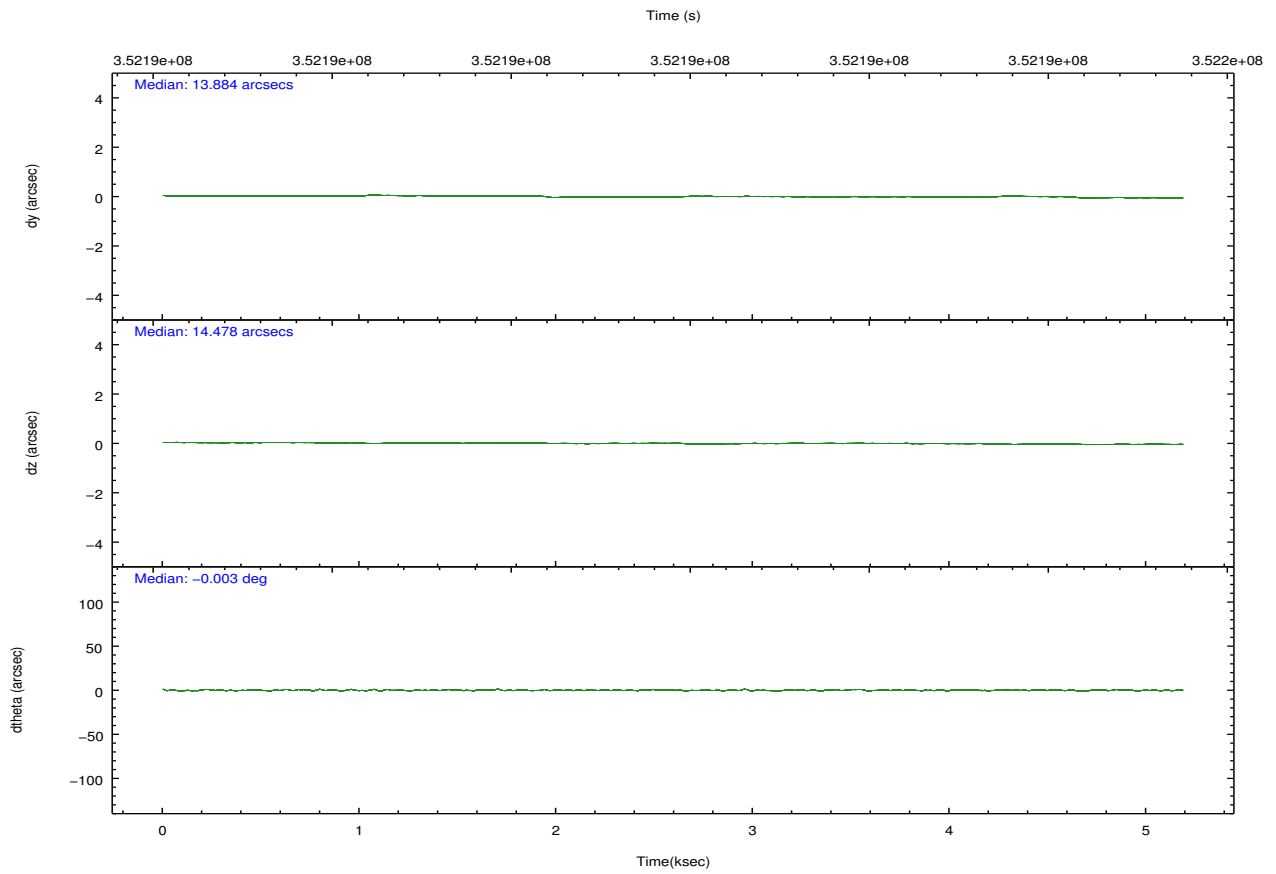
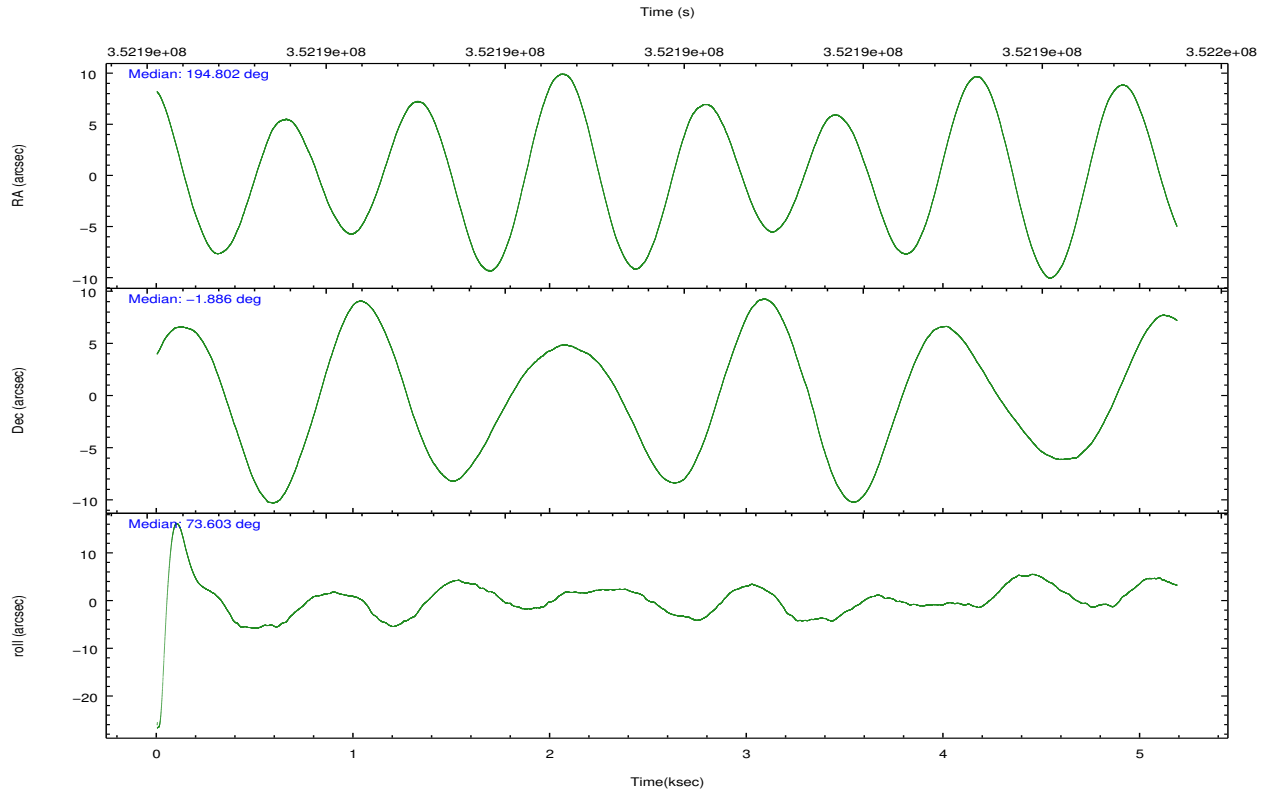
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1498	2945	3003	2700	3795
	3%	7%	6%	6%	8%
grade 1 events	25	245	31	26	34
	0%	0%	0%	0%	0%
grade 2 events	996	1038	1160	1274	1200
	2%	2%	2%	3%	2%
grade 3 events	450	473	496	486	501
	1%	1%	1%	1%	1%
grade 4 events	404	497	489	434	501
	1%	1%	1%	1%	1%
grade 5 events	1480	1561	1397	1742	1633
	3%	3%	3%	4%	3%
grade 6 events	809	900	810	855	956
	2%	2%	1%	2%	2%
grade 7 events	31949	32328	35941	34148	33550
	84%	80%	82%	81%	79%

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	194.808102	194.8015113144949	CCD I2 on	Y	Y
[deg] Pointing Dec	-1.912493	-1.885717888845588	CCD I3 on	Y	Y
[deg] Pointing Roll	73.400214	73.60868692775675	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	352189502.184000	352189126.38457	CCD S5 on	N	N
Observation start date	2009-02-28T06:23:56	2009-02-28T06:18:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	352194502.184000	352195408.60988	On-chip summing requested	N	N
Observation end date	2009-02-28T07:47:16	2009-02-28T08:03:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



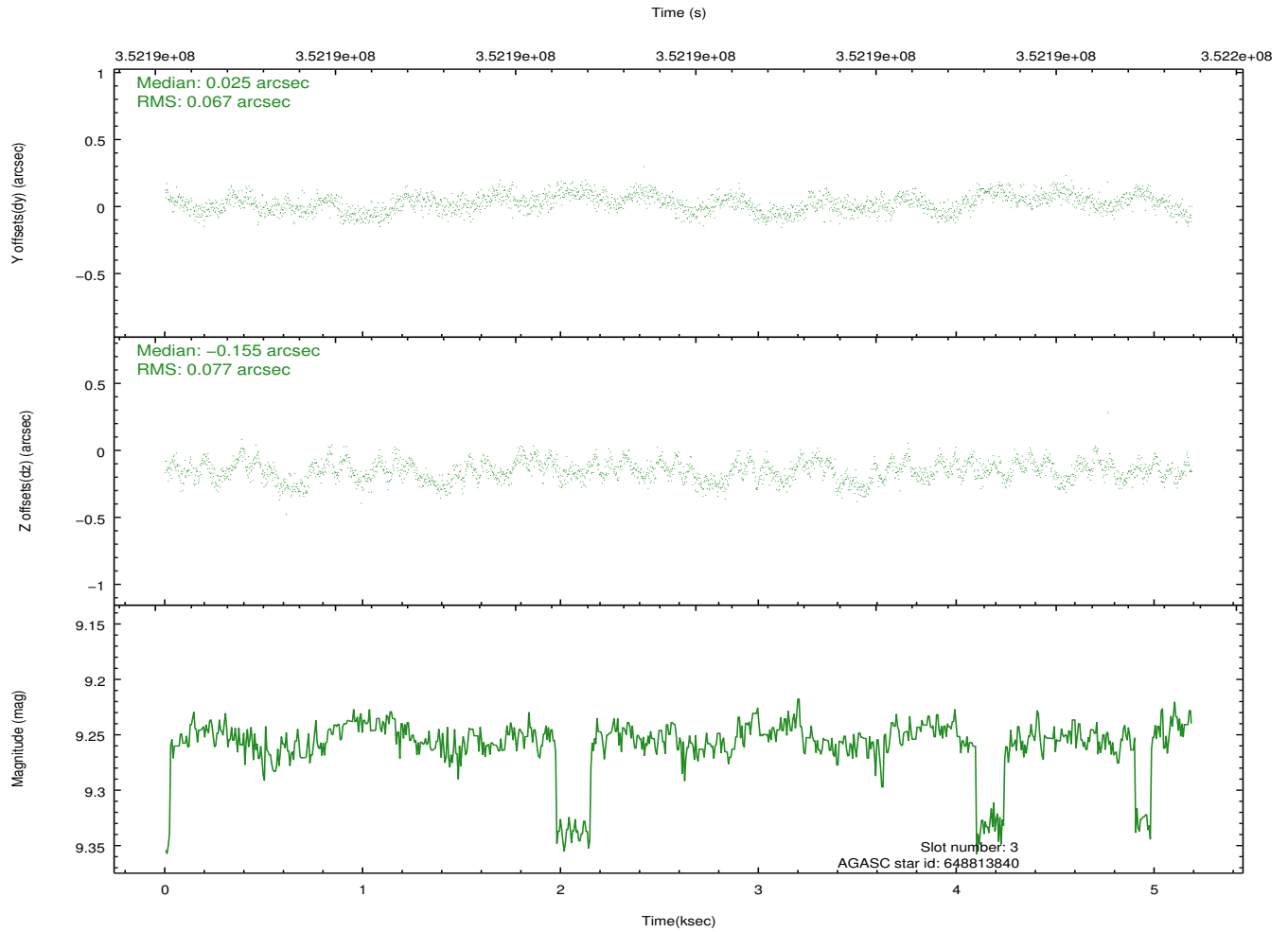
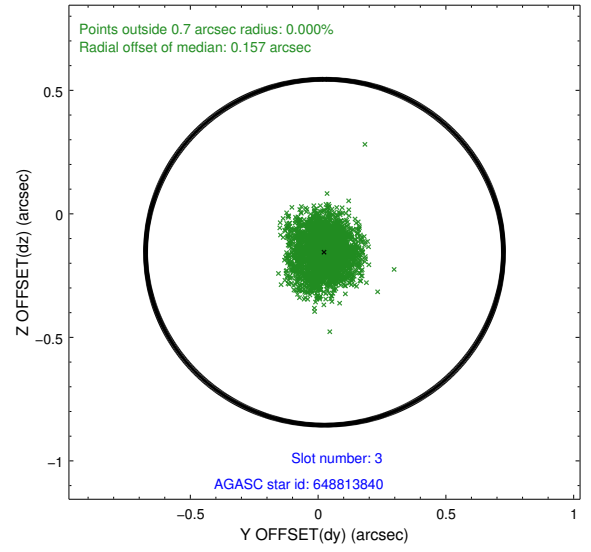
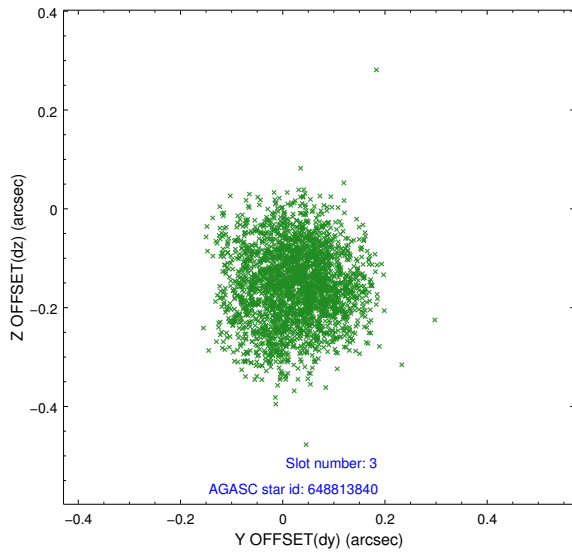


Slot Statistics

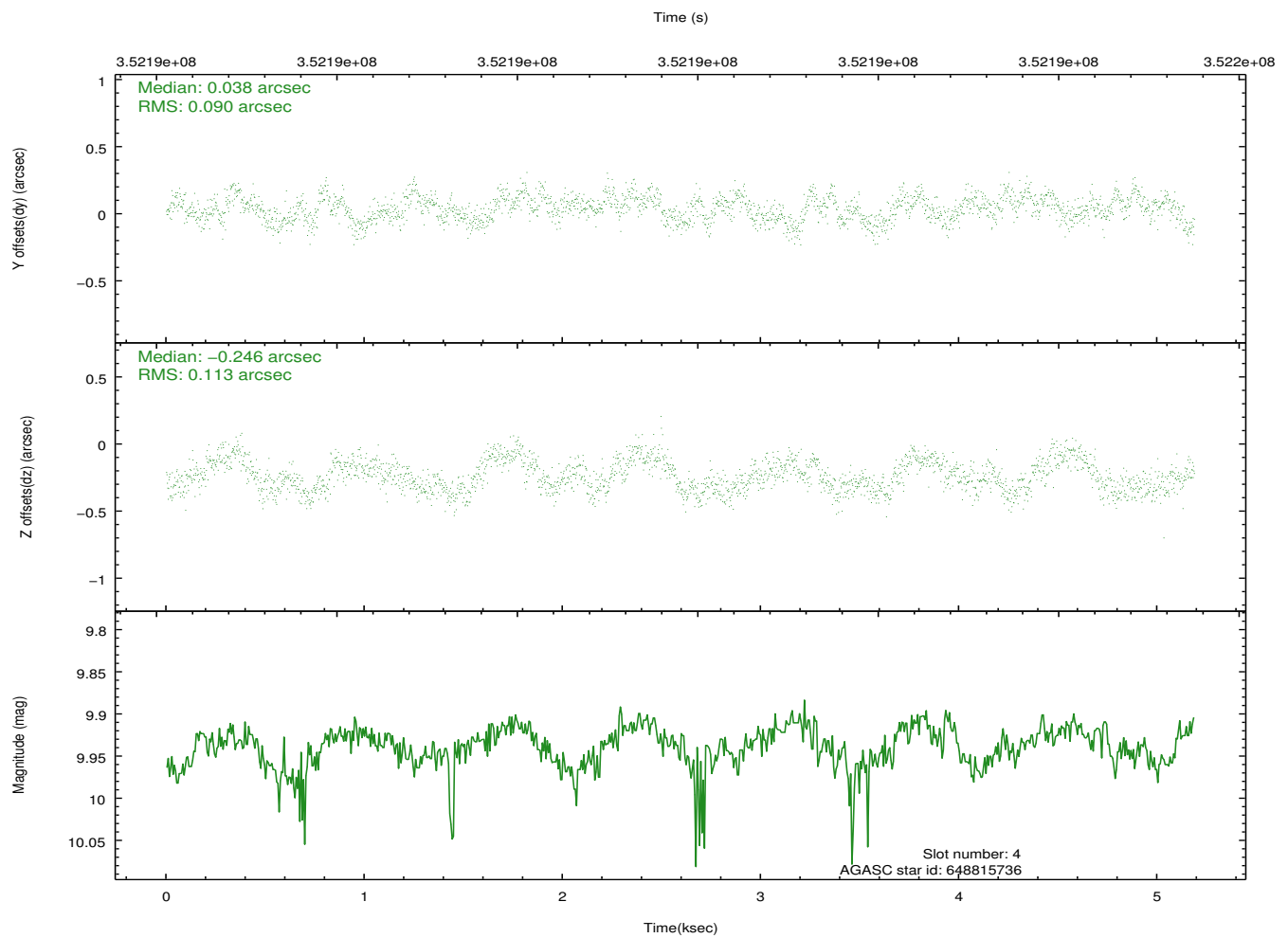
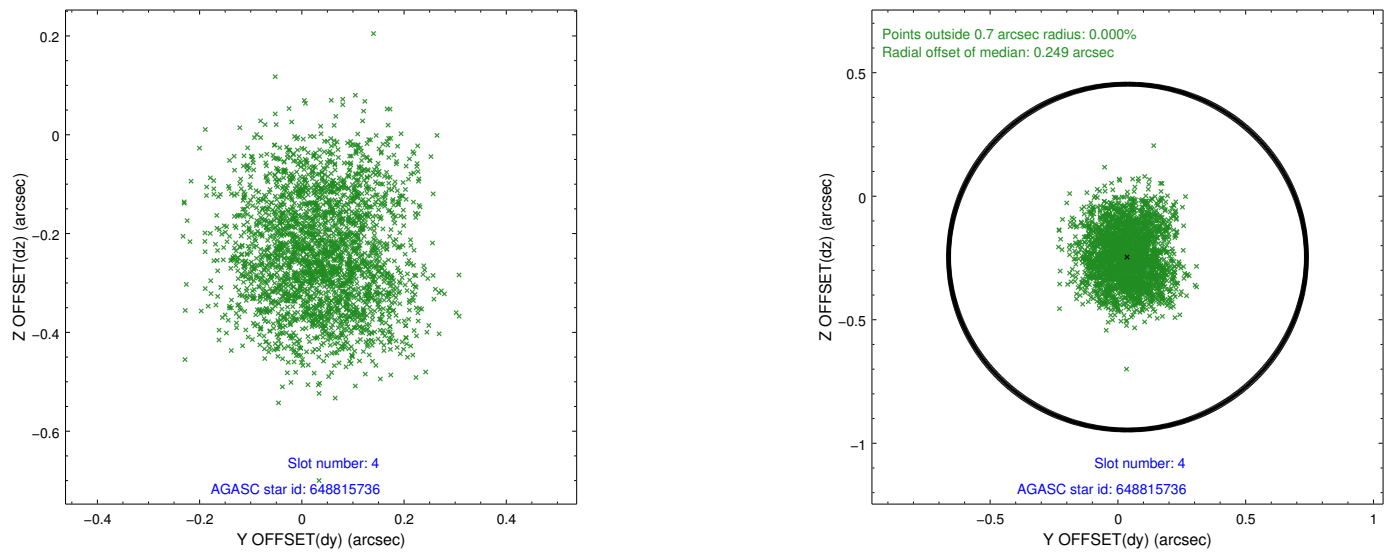
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.11	1265	0.029	0.018	0.006	0.011	0.000000	0.000000	925.65	-838.03
1	FID	ACIS-I-5	7.10	1265	-0.212	0.038	0.006	0.011	0.000000	0.000000	-1822.09	1058.85
2	FID	ACIS-I-6	7.11	1264	0.093	0.014	0.007	0.012	0.000000	0.000000	389.94	1704.69
3	GUIDE	648813840	9.25	2516	0.025	-0.155	0.111	0.170	194.717621	-1.945504	-207.42	277.46
4	GUIDE	648815736	9.94	2530	0.038	-0.246	0.157	0.242	194.100949	-2.130858	-1480.95	2213.19
5	GUIDE	648815800	9.54	2527	0.033	-0.082	0.148	0.236	194.475560	-2.052849	-826.49	1003.22
6	GUIDE	650121880	9.28	2526	0.022	0.306	0.129	0.212	195.290621	-2.541375	-1674.38	-2309.15
7	GUIDE	649731616	10.30	2525	-0.097	0.151	0.279	0.431	195.399337	-1.528753	1930.75	-1644.73

2.4 Star Slots

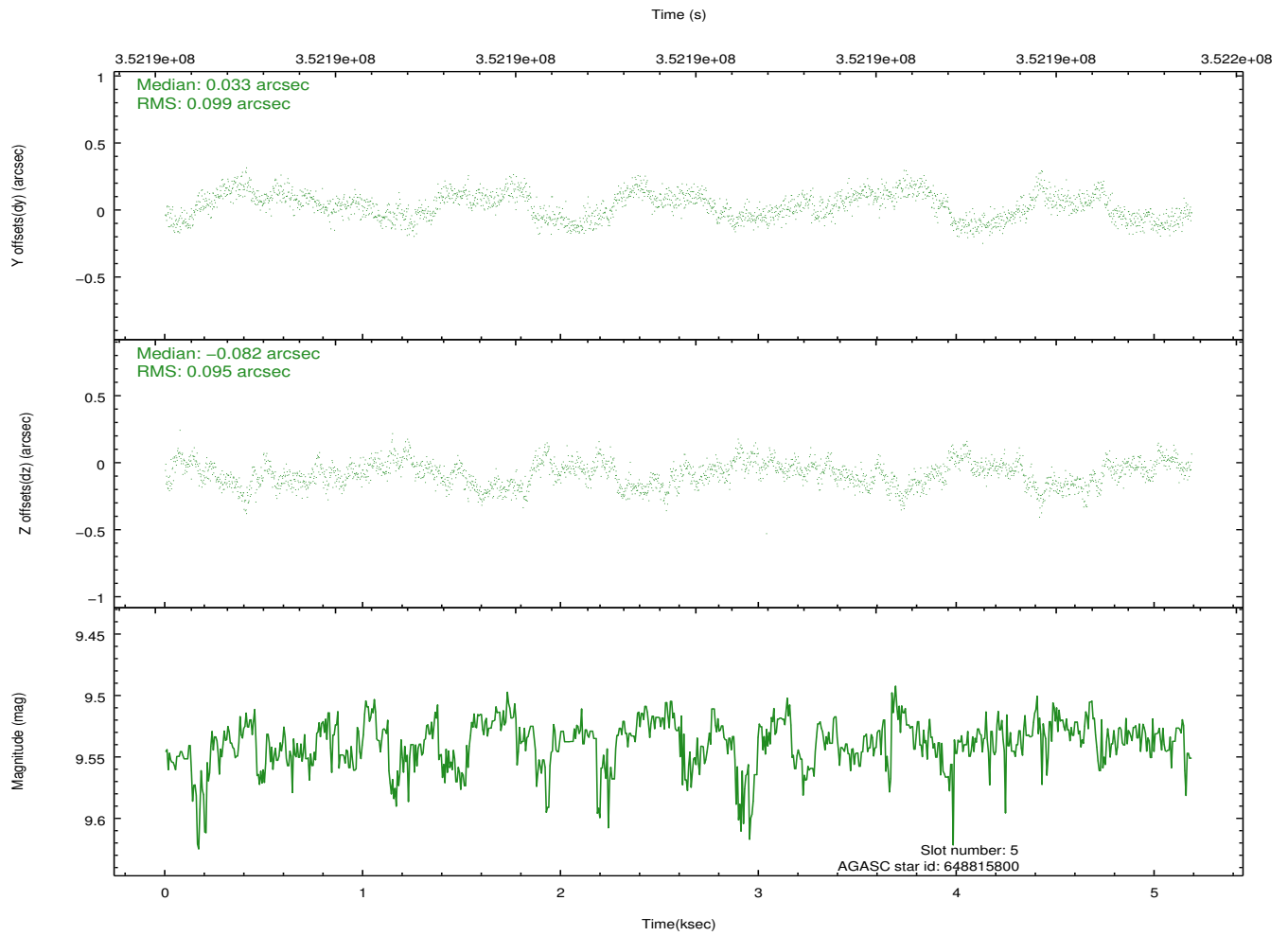
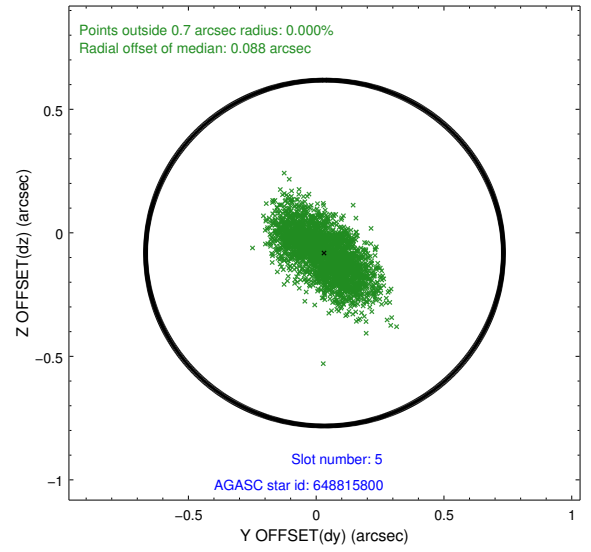
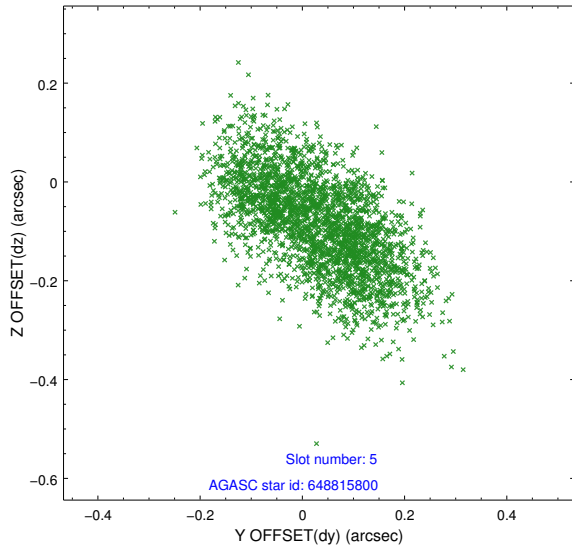
2.4.1 Slot 3



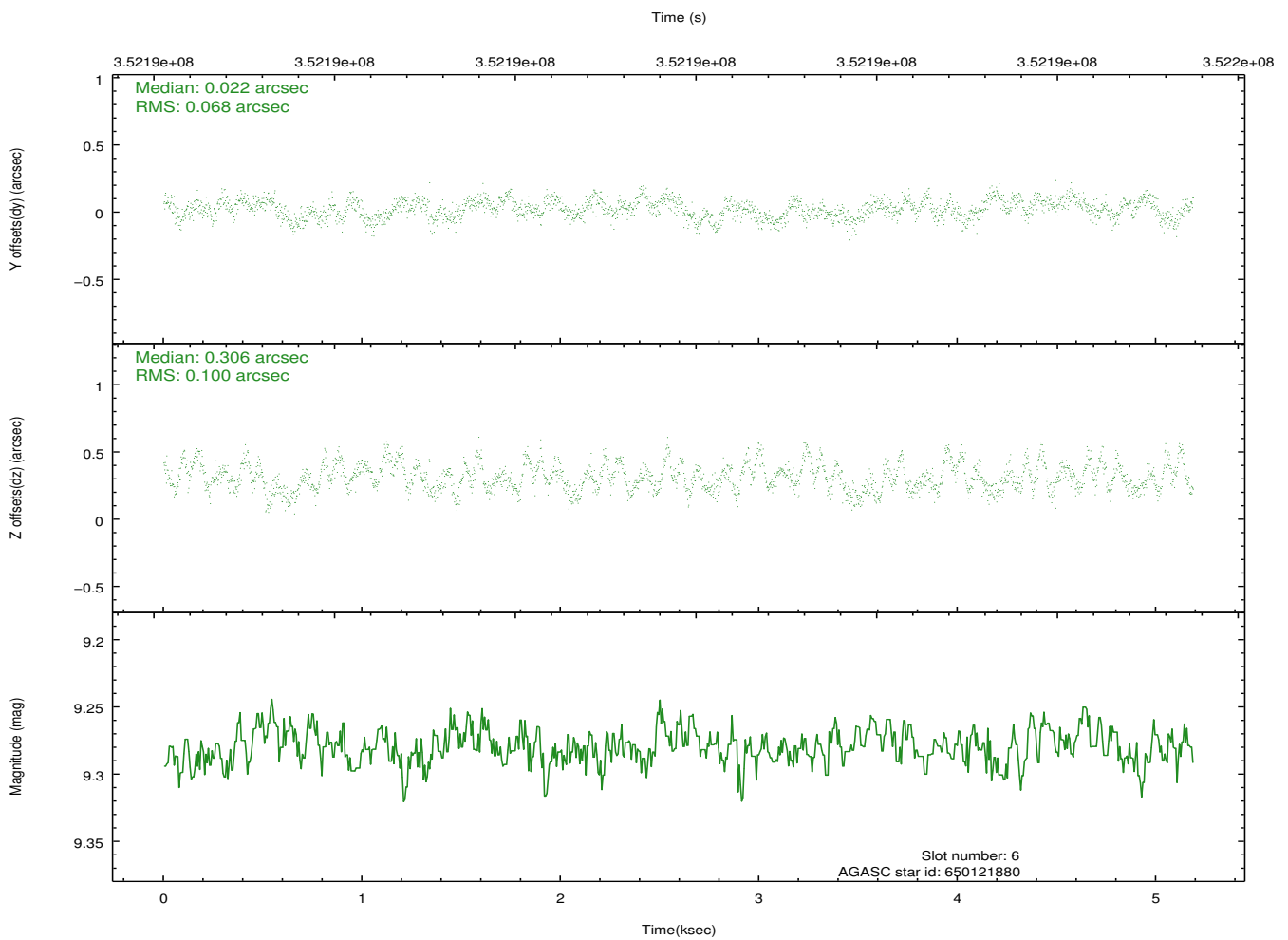
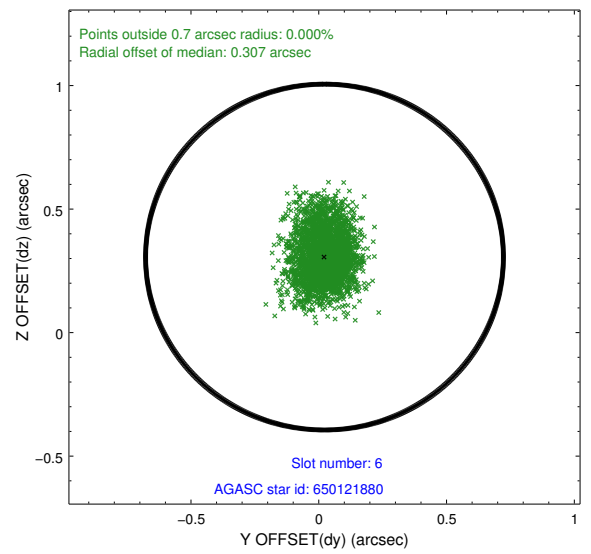
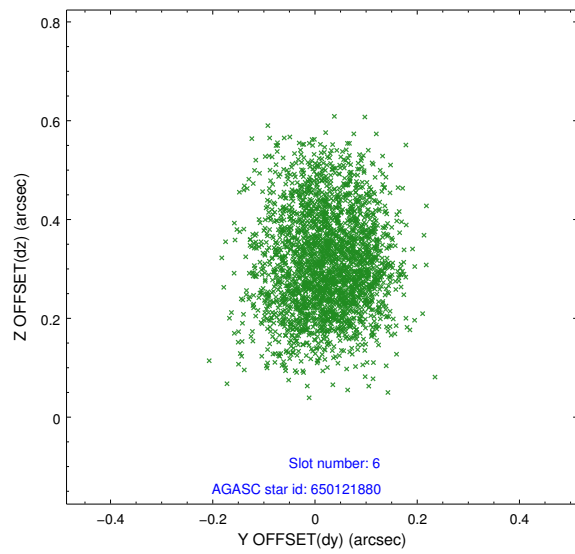
2.4.2 Slot 4



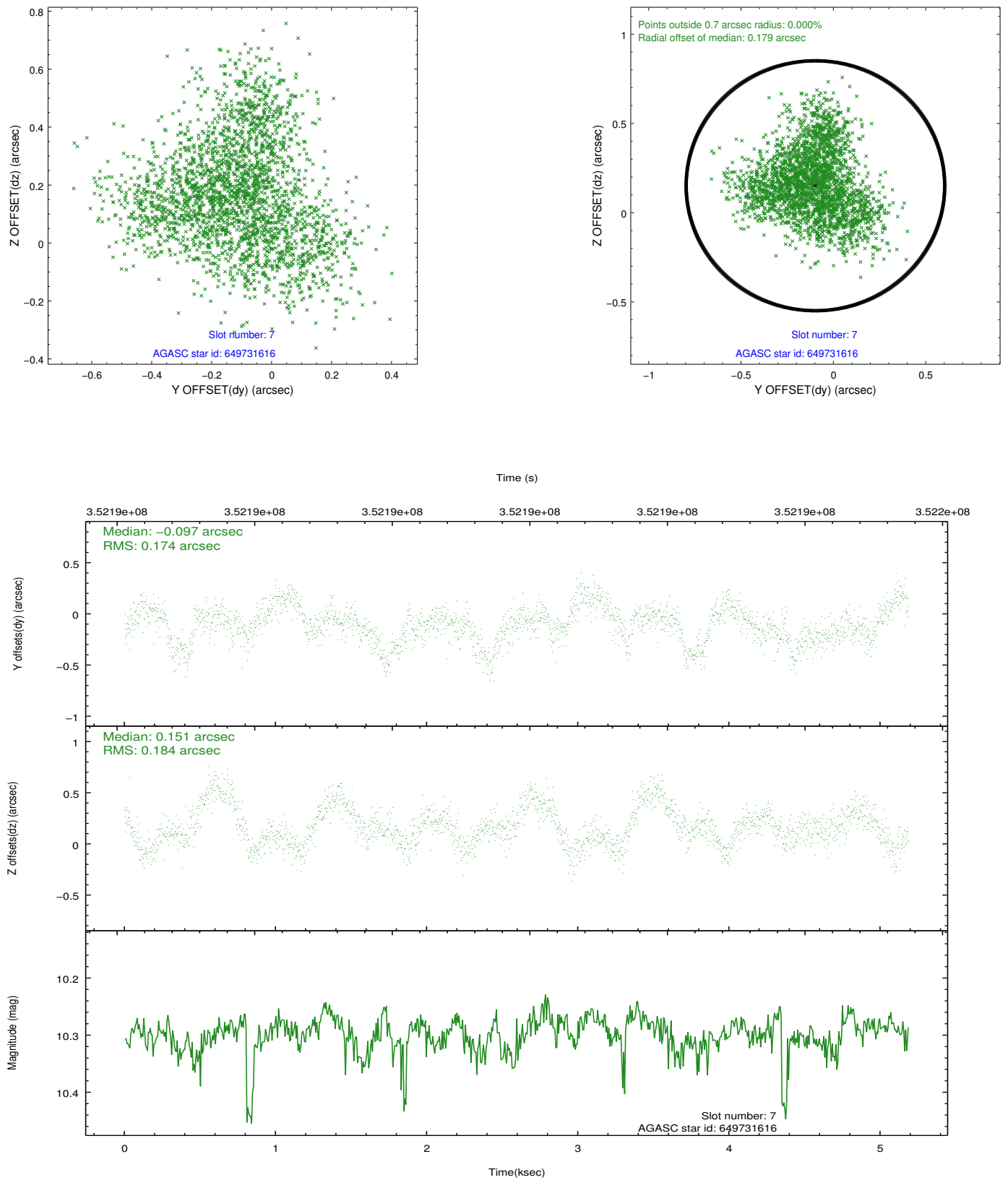
2.4.3 Slot 5



2.4.4 Slot 6

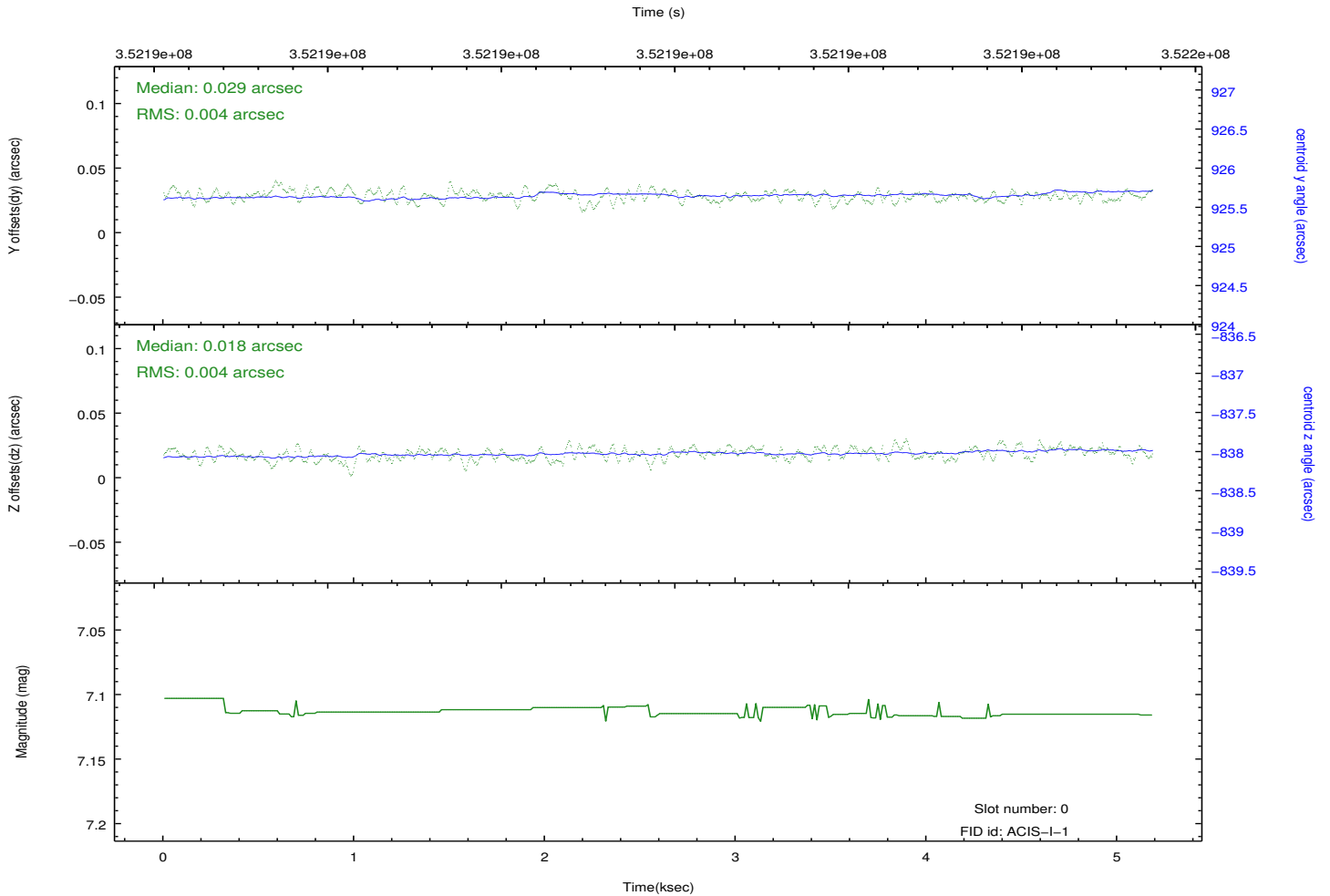
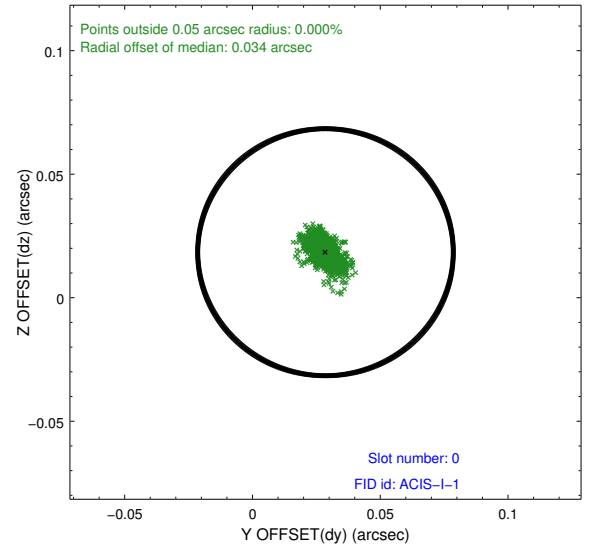
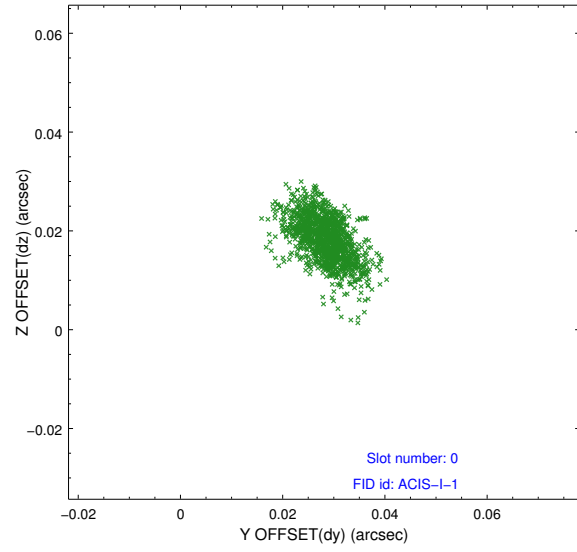


2.4.5 Slot 7

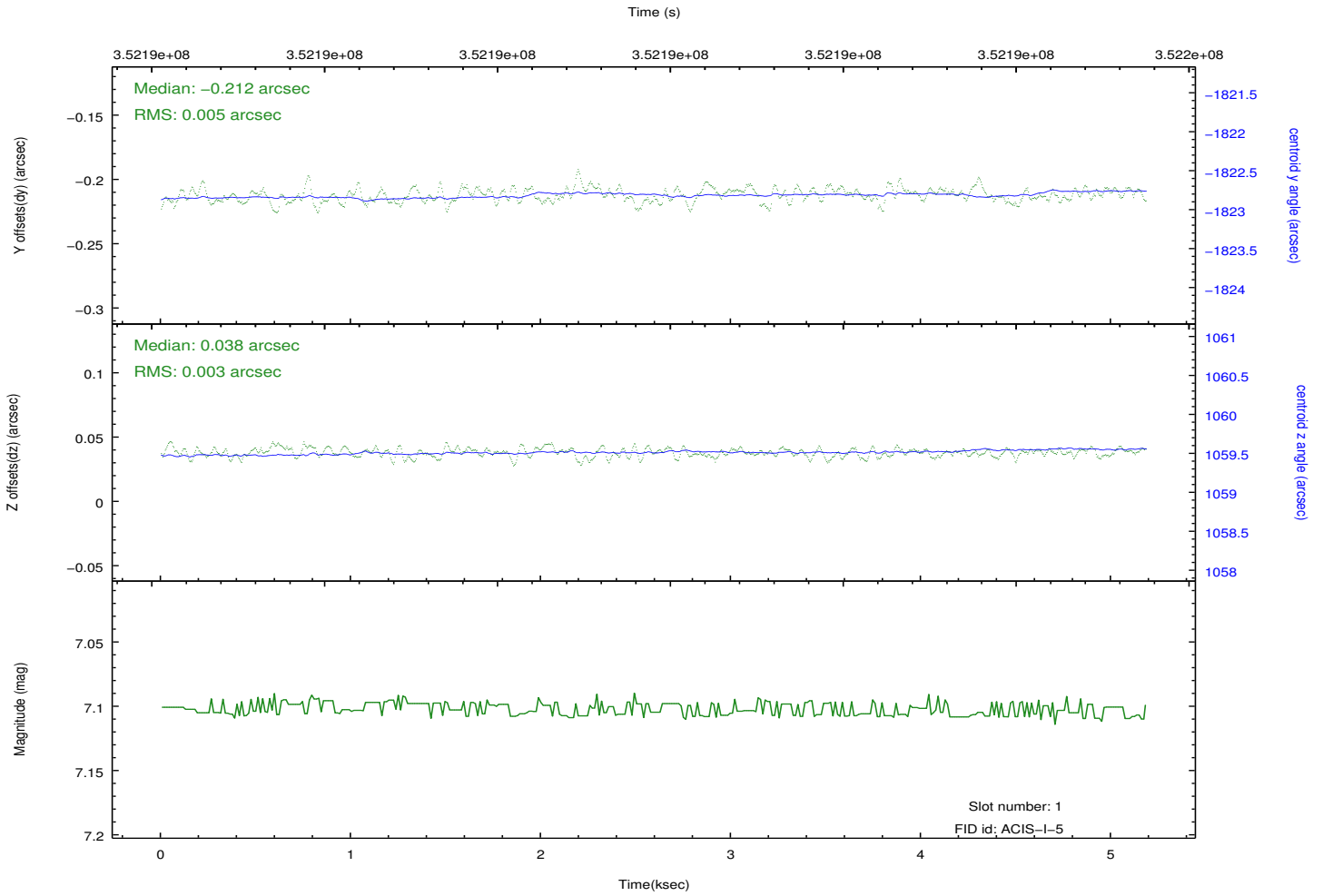
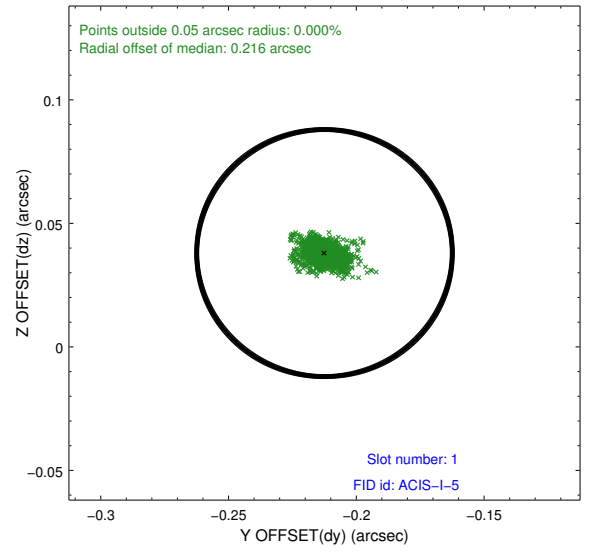
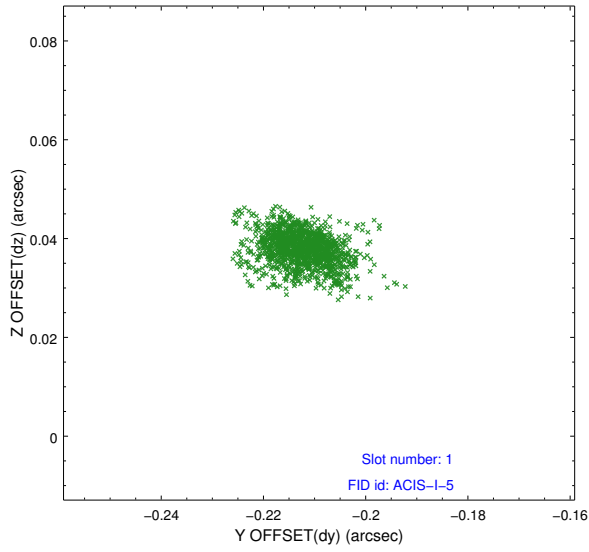


2.5 FID Slots

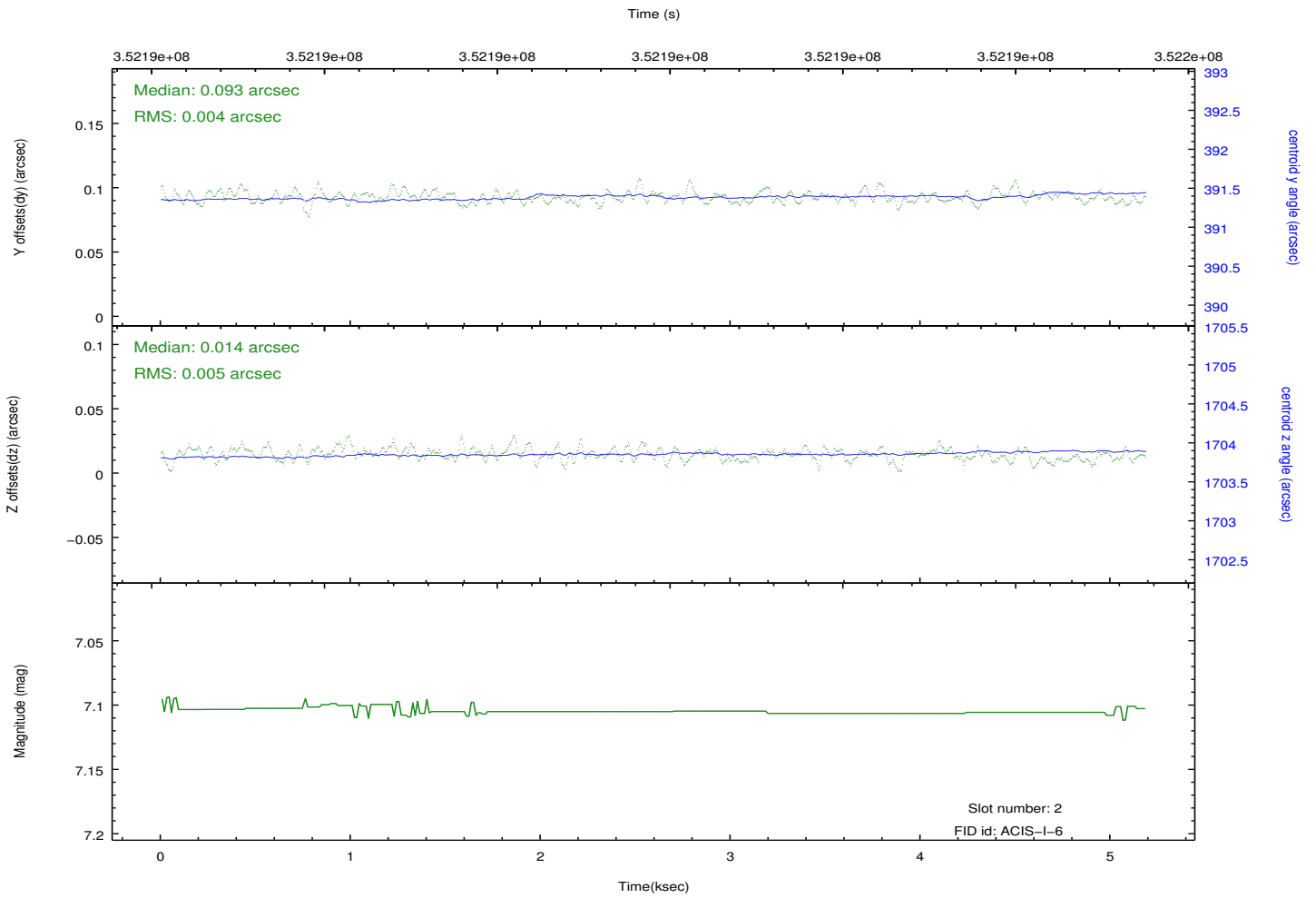
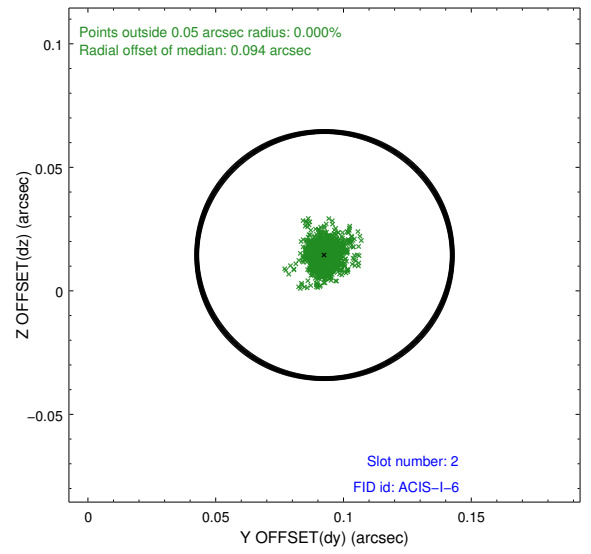
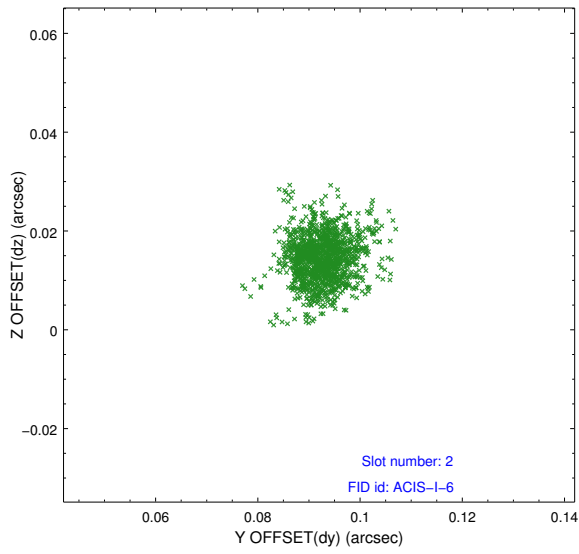
2.5.1 Slot 0



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)	2012.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77710003

A.2 Comments