

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19873 - L2 Version 1
Chandra X-Ray Center

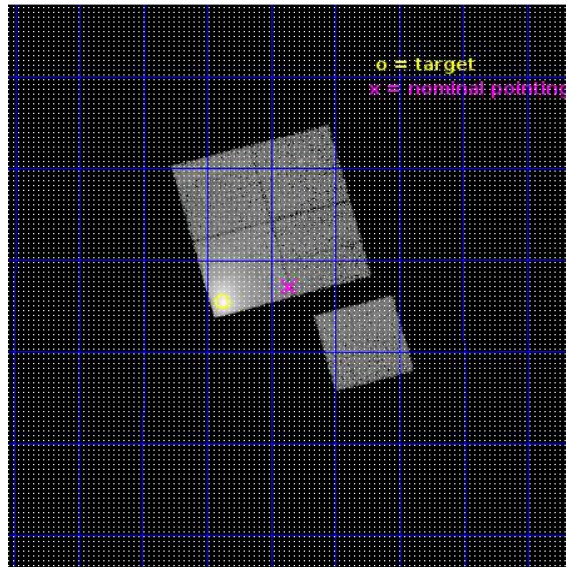
L2 Processing Date : Apr 10 2017

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1 Front

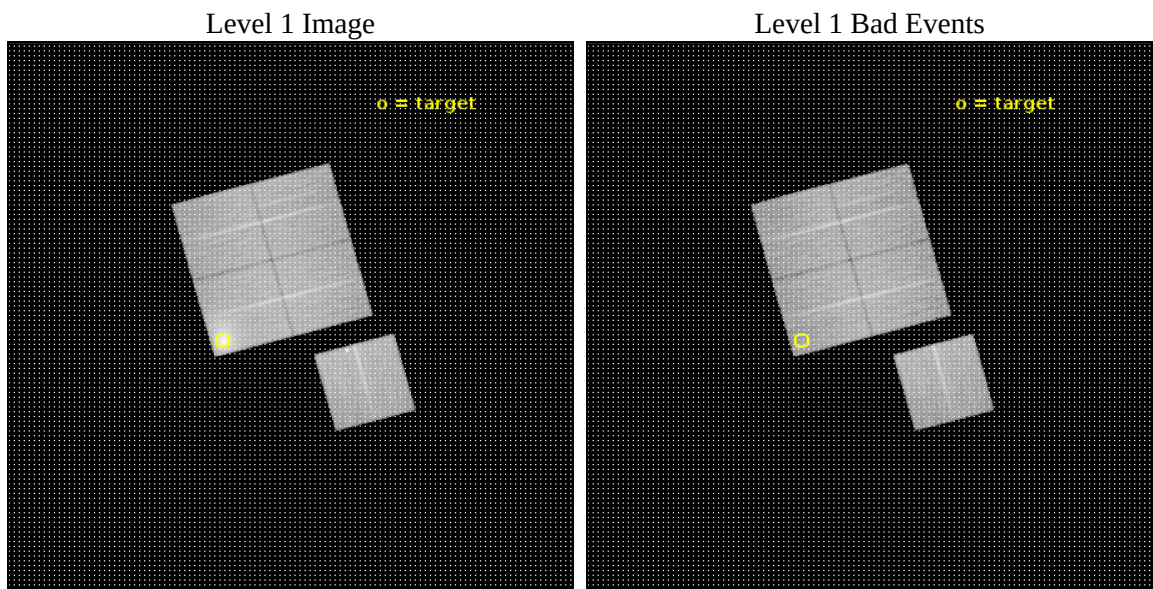
seq_num	890138	Sequence number
obs_id	19873	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.08948197353	Nominal RA [deg]
dec_nom	26.618776501864	Nominal Dec [deg]
roll_nom	164.65179060936	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24770.949821234	Sum of GTIs [s]
livetime	24447.299125711	Livetime [s]
ontime0	24764.544620752	Sum of GTIs [s]
ontime1	24764.585640907	Sum of GTIs [s]
ontime2	24770.90878129	Sum of GTIs [s]
ontime3	24770.949821234	Sum of GTIs [s]
ontime6	24767.644610882	Sum of GTIs [s]
l2events	173671	Number of level 2 events



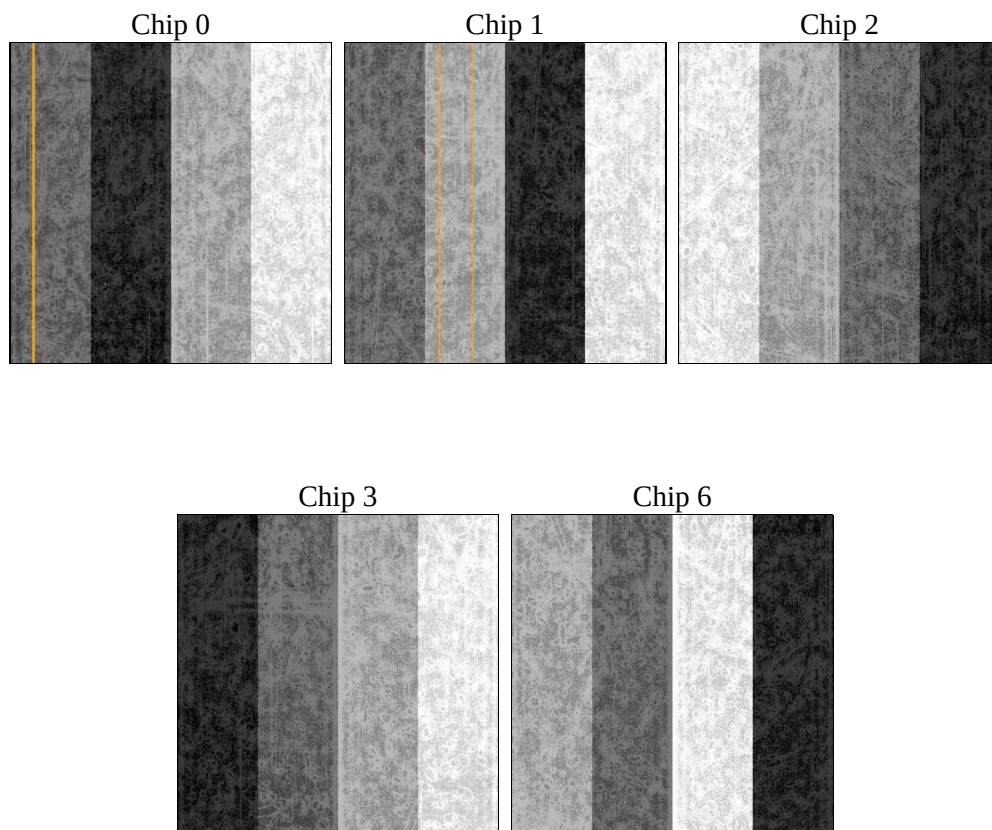
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	24770.949821234	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	24764.544620752	Sum of GTIs [s]
date	2017-04-10T03:53:53	Date and time of file creation	ontime1	24764.585640907	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24770.90878129	Sum of GTIs [s]
			ontime3	24770.949821234	Sum of GTIs [s]
			ontime6	24767.644610882	Sum of GTIs [s]
			l1events	955007	Number of level 1 events

2.1.4 Events

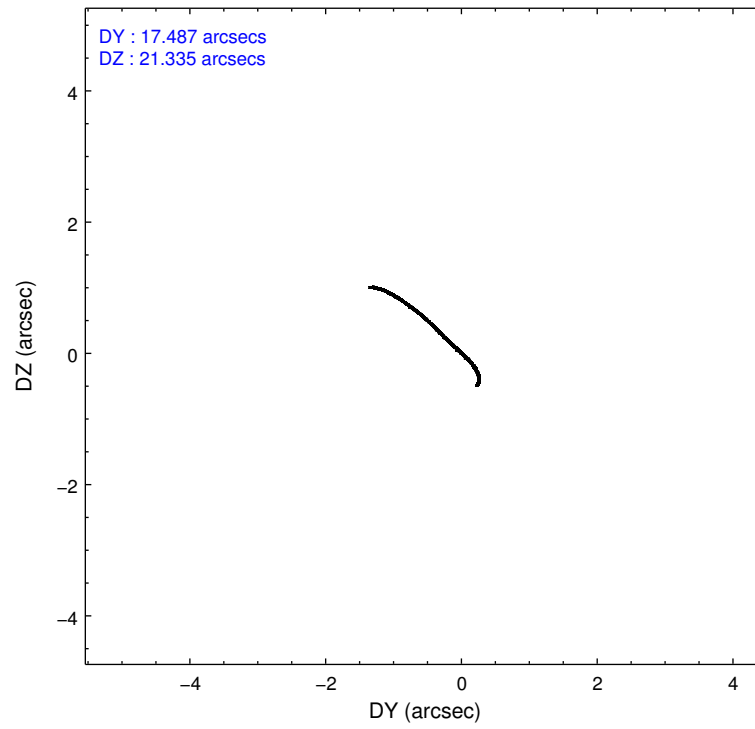
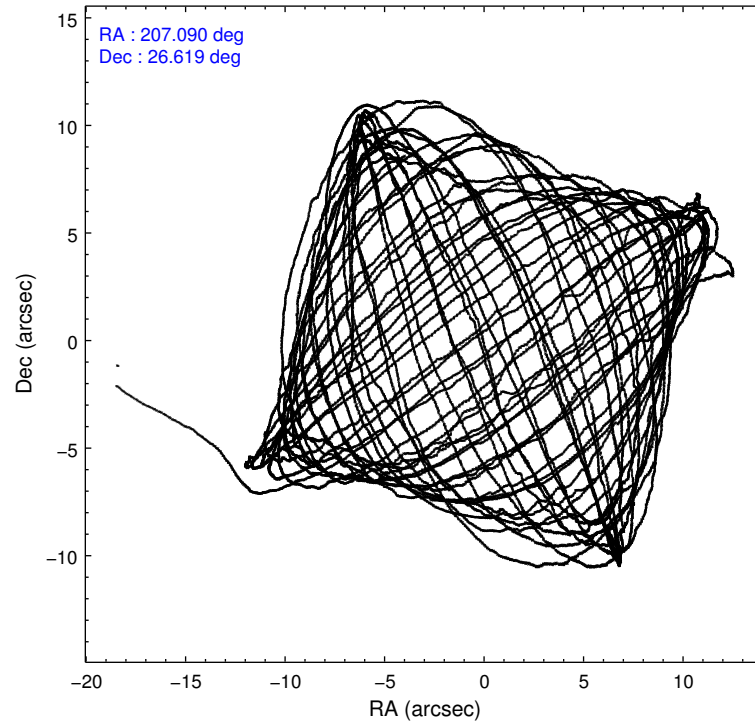
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	164900	166276	180071	261306	182454
rejected events	145049	143221	159697	153293	160084
rejected %	87%	86%	88%	58%	87%

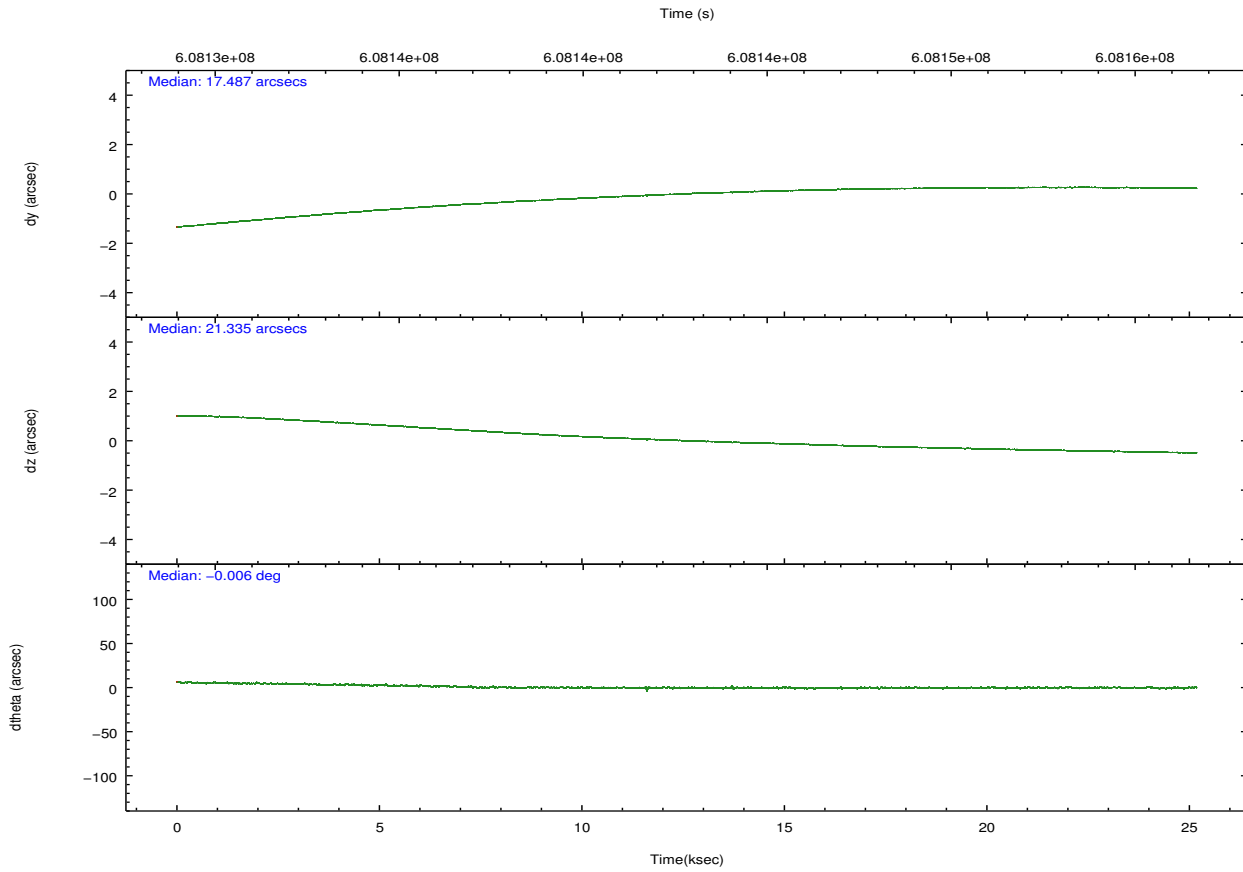
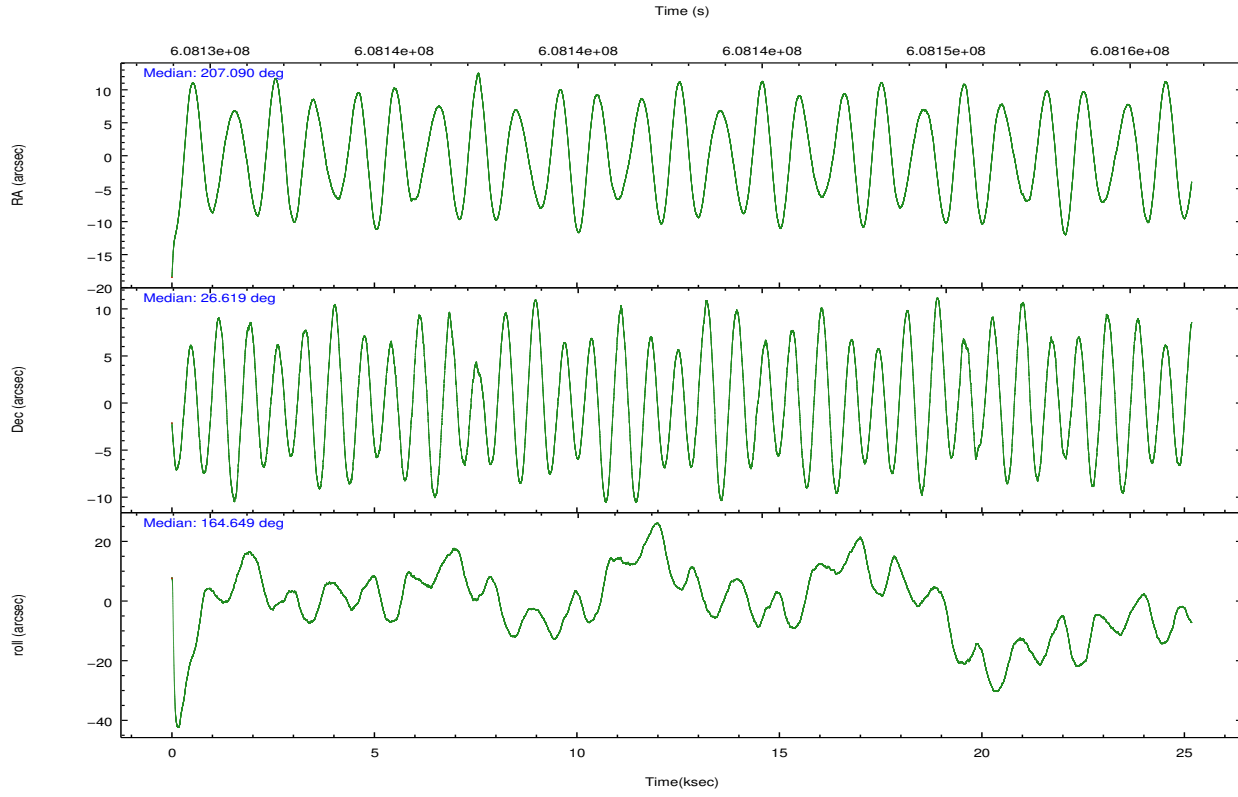
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7054	8806	8005	76476	9036
	4%	5%	4%	29%	4%
grade 1 events	97	91	100	429	147
	0%	0%	0%	0%	0%
grade 2 events	5021	5584	4875	14103	4726
	3%	3%	2%	5%	2%
grade 3 events	1965	1982	1947	5331	2000
	1%	1%	1%	2%	1%
grade 4 events	1902	2019	1946	5233	2085
	1%	1%	1%	2%	1%
grade 5 events	7297	8000	6973	8678	8400
	4%	4%	3%	3%	4%
grade 6 events	3914	4668	3610	6898	4525
	2%	2%	2%	2%	2%
grade 7 events	137650	135126	152615	144158	151535
	83%	81%	84%	55%	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	207.119356	207.0894819735251	CCD I2 on	Y	Y
[deg] Pointing Dec	26.625862	26.61877650186431	CCD I3 on	Y	Y
[deg] Pointing Roll	164.429690	164.6517906093559	CCD S0 on	N	N
[s] Window start time (MET)	607392069.184000	607392069.184000	CCD S1 on	N	N
[s] Window stop time (MET)	609897669.184000	609897669.184000	CCD S2 on	O1	Y
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S3 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S4 on	N	N
[mm] SIM translation stage pos	-214.092463	-214.0989765584371	CCD S5 on	N	N
[mm] SIM translation stage offset	-19.5	-19.49347644449256	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	608130413.184000	608129318.70688	On-chip summing requested	N	N
Observation start date	2017-04-09T13:05:44	2017-04-09T12:48:38	Subarray requested	NONE	NONE
[s] Observation end time (MET)	608155413.184000	608156880.44598	Alternating exposures requested	N	N
Observation end date	2017-04-09T20:02:24	2017-04-09T20:28:00	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



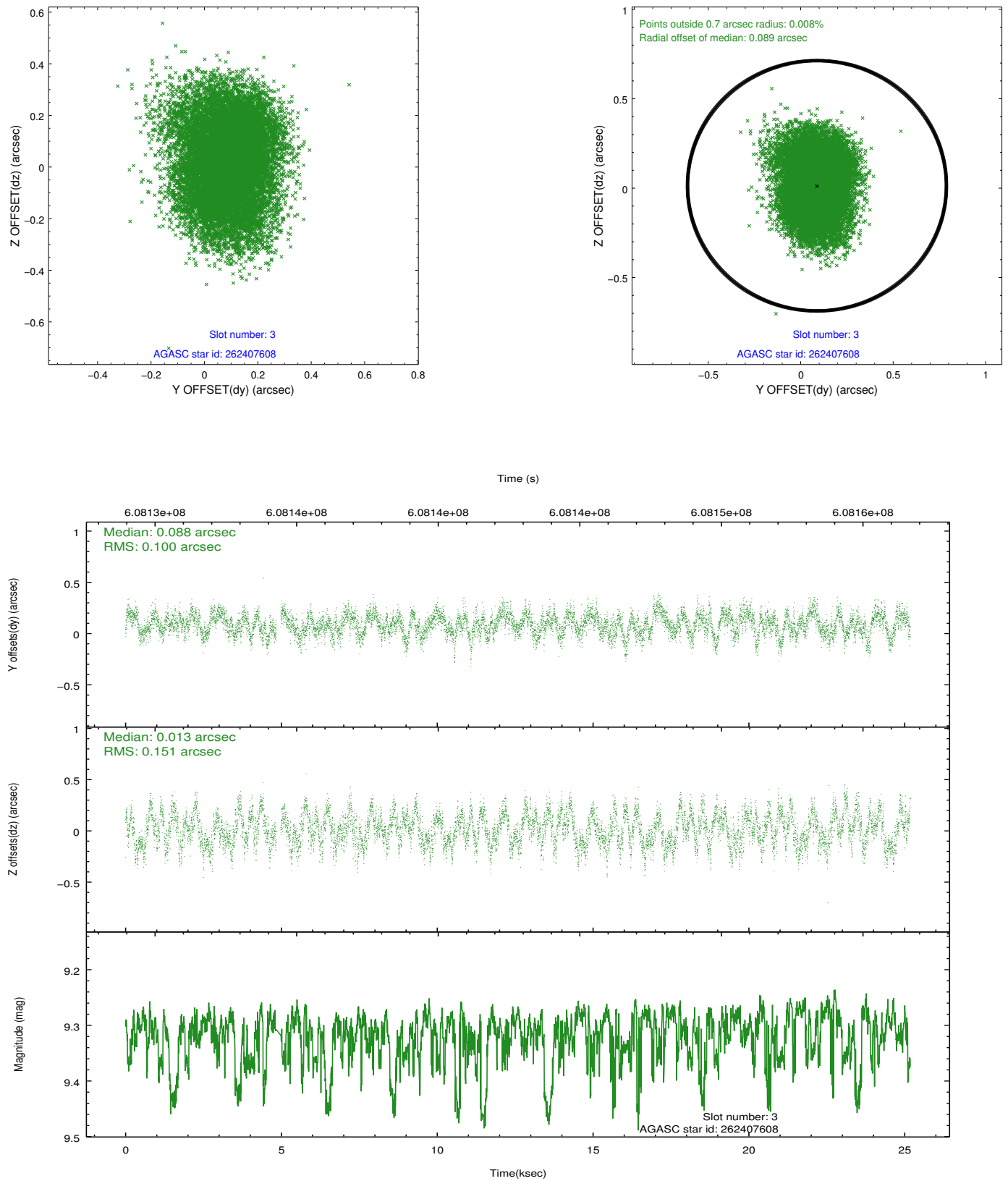


Slot Statistics

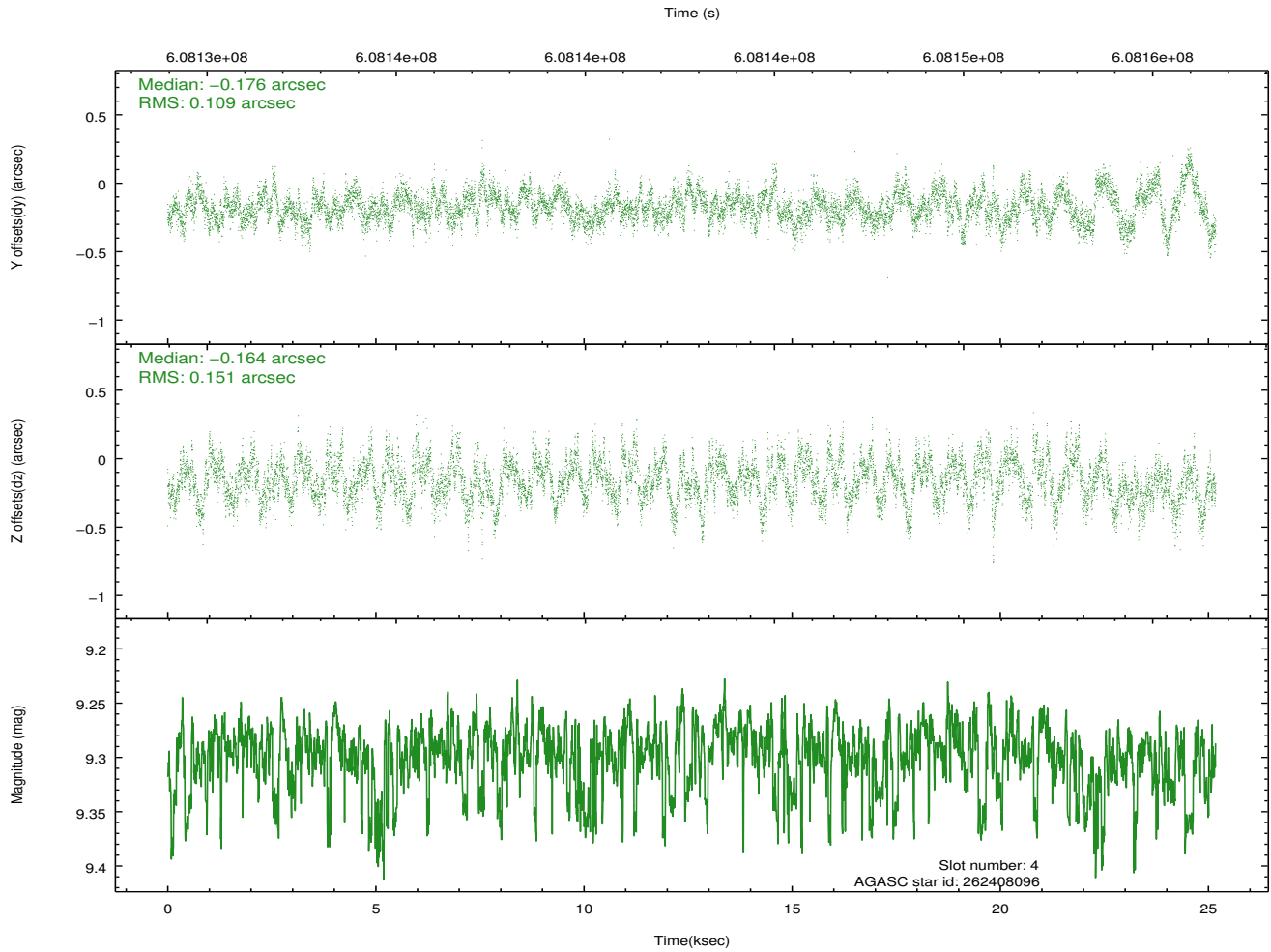
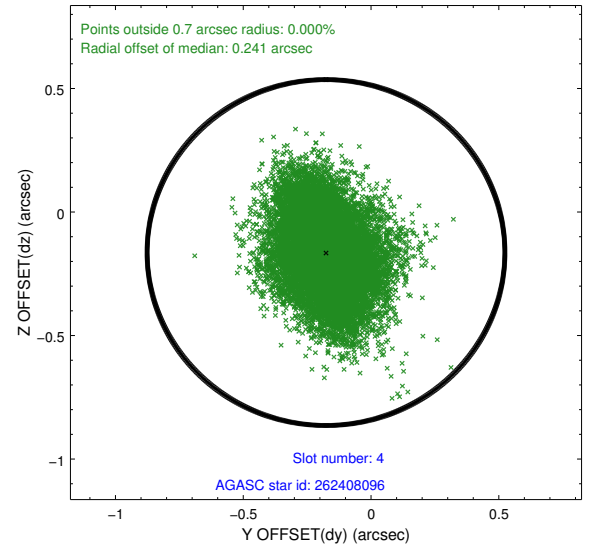
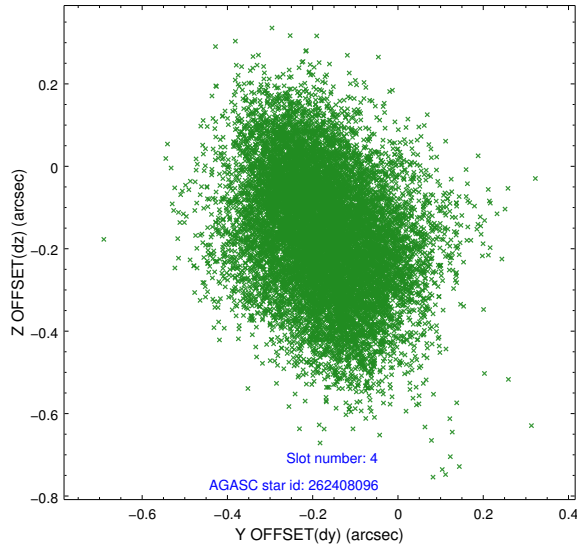
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.14	6142	0.294	-0.245	0.017	0.032	0.000000	0.000000	922.11	-1245.74
1	FID		ACIS-I-5	7.11	6142	-0.625	0.159	0.016	0.022	0.000000	0.000000	-1826.98	651.84
2	FID		ACIS-I-6	7.16	6141	0.240	0.158	0.021	0.028	0.000000	0.000000	387.30	1296.63
3	GUIDE	used	262407608	9.32	12199	0.088	0.013	0.196	0.308	207.378401	26.435507	-988.01	435.37
4	GUIDE	used	262408096	9.30	12266	-0.176	-0.164	0.199	0.321	207.011678	26.515421	228.09	475.96
5	GUIDE	used	262408512	7.97	12279	0.096	0.474	0.115	0.189	207.800210	27.128796	-1613.35	-2334.73
6	GUIDE	used	262409552	8.17	12278	0.015	0.005	0.146	0.237	206.584269	27.192805	2199.73	-1509.26
7	GUIDE	used	262411960	9.64	12195	-0.038	-0.320	0.226	0.401	207.327895	25.881727	-1369.32	2398.47

2.4 Star Slots

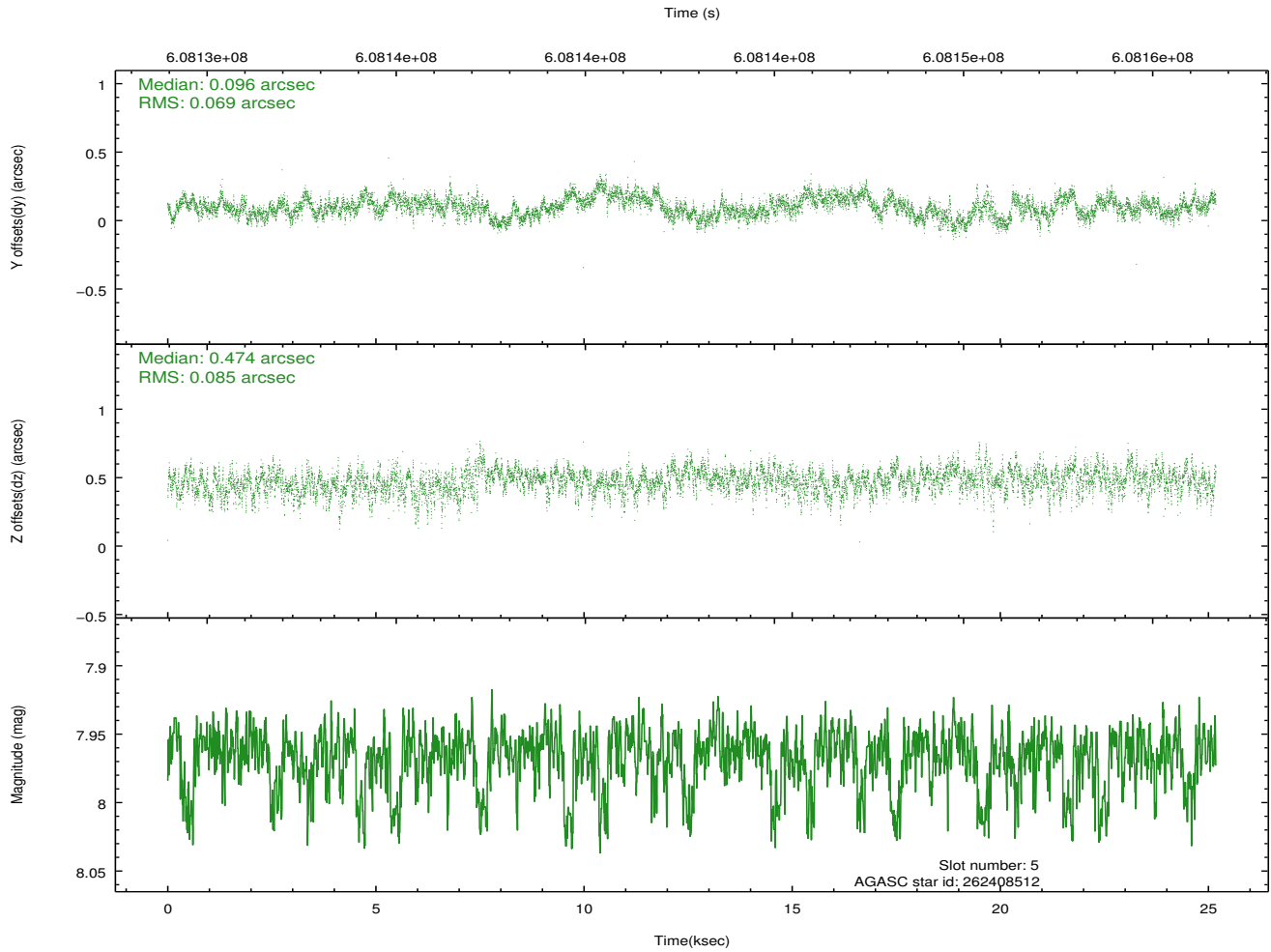
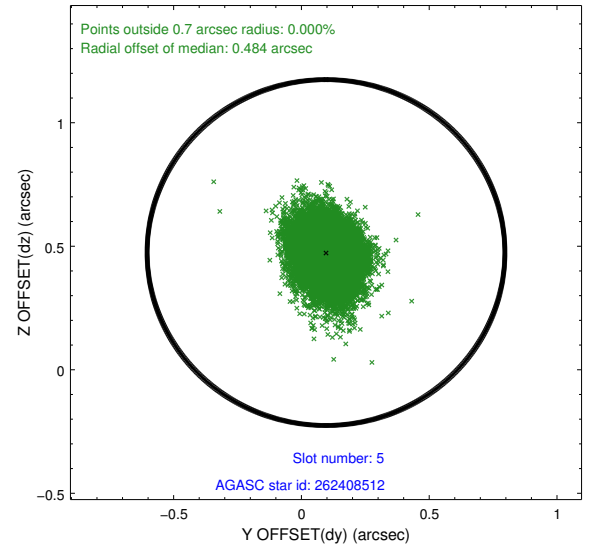
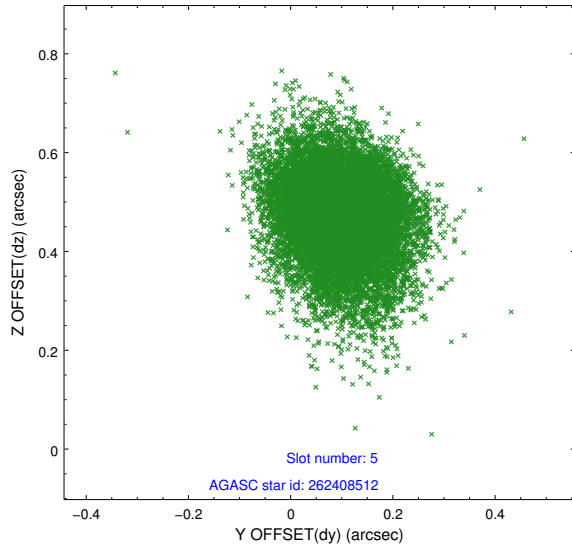
2.4.1 Slot 3



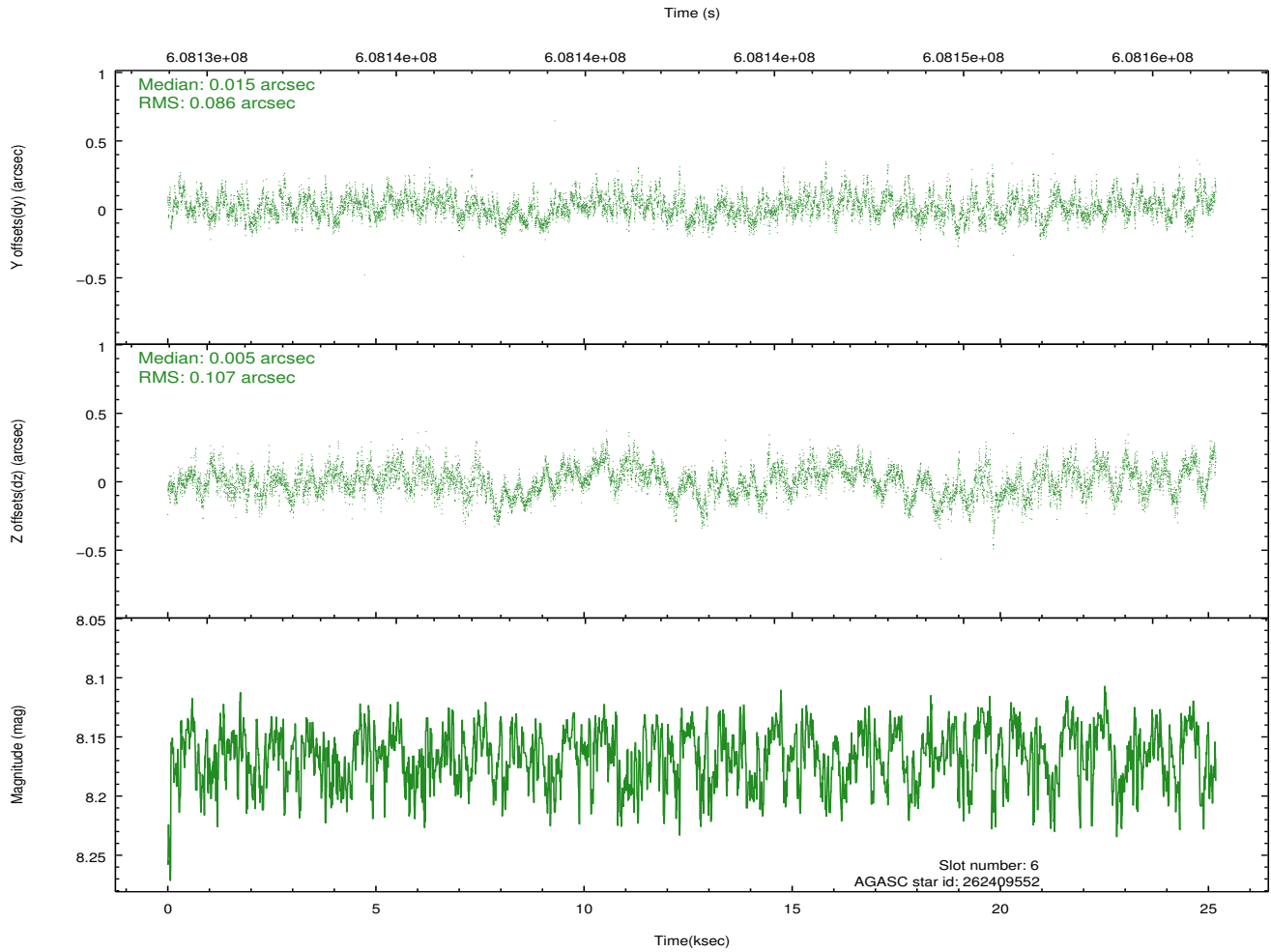
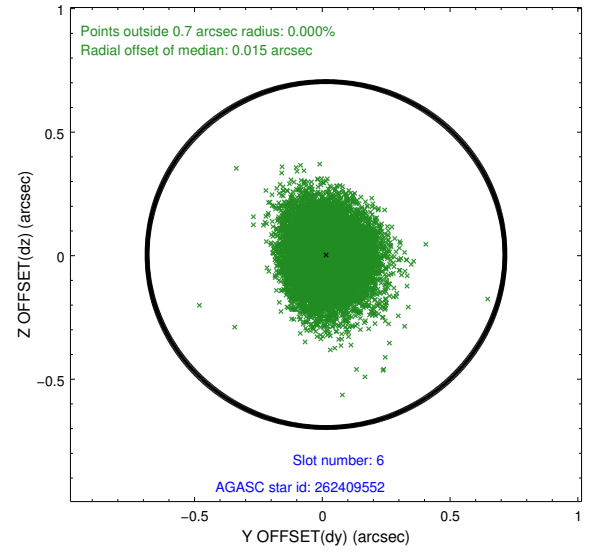
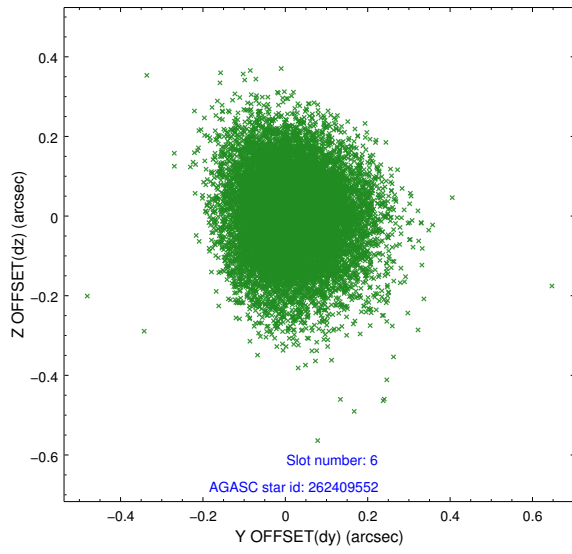
2.4.2 Slot 4



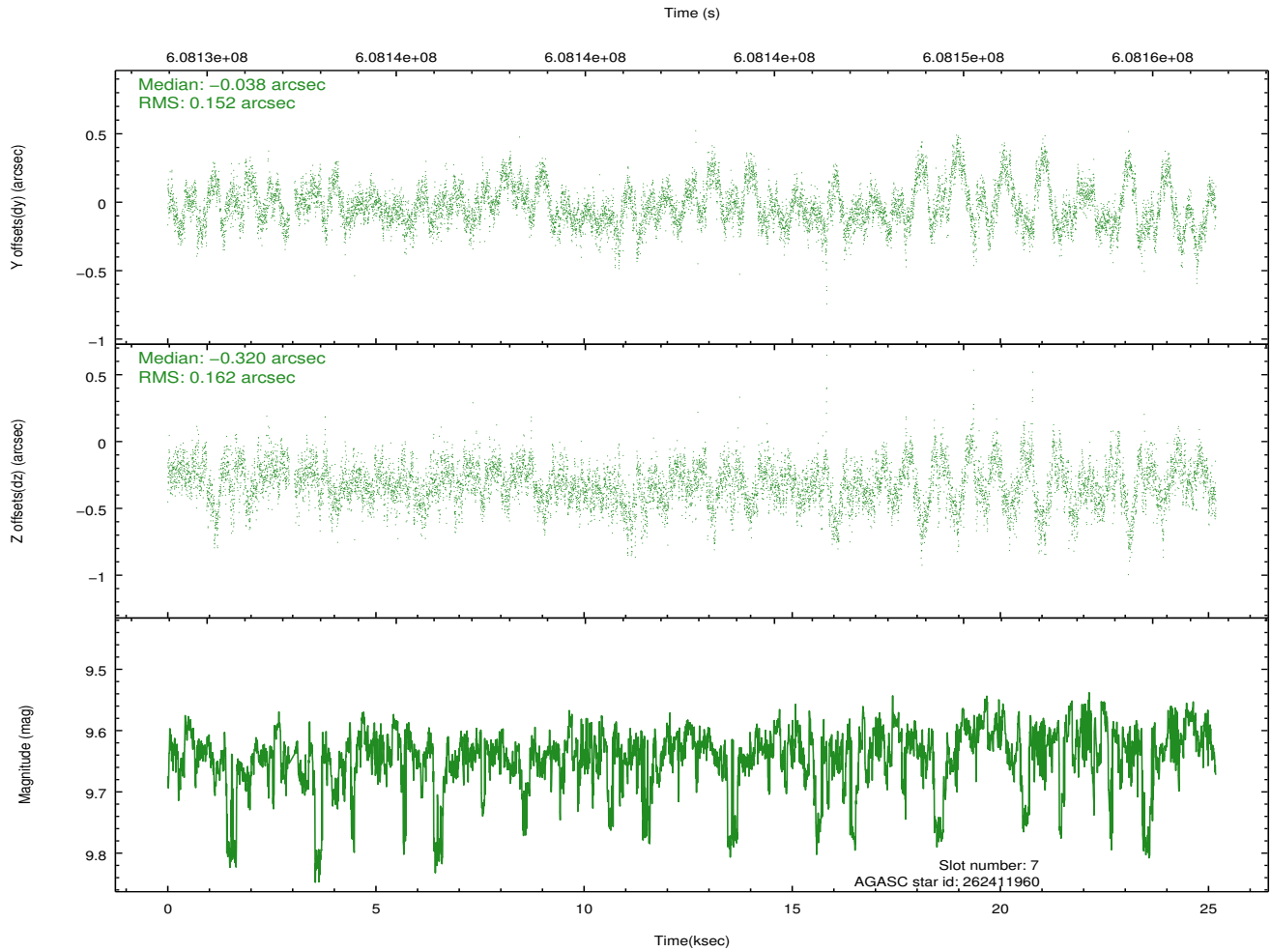
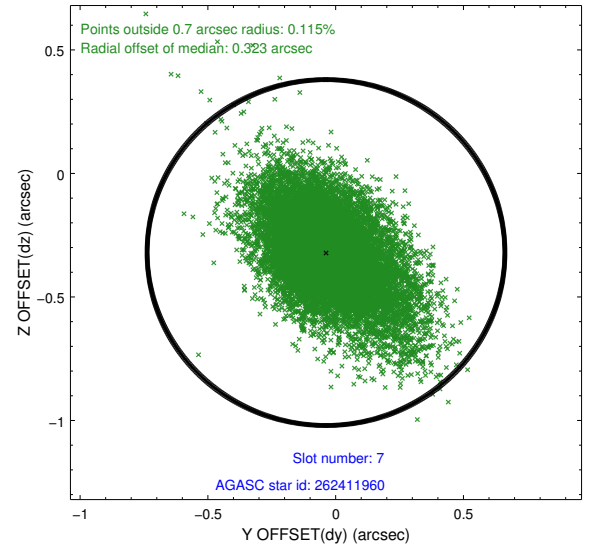
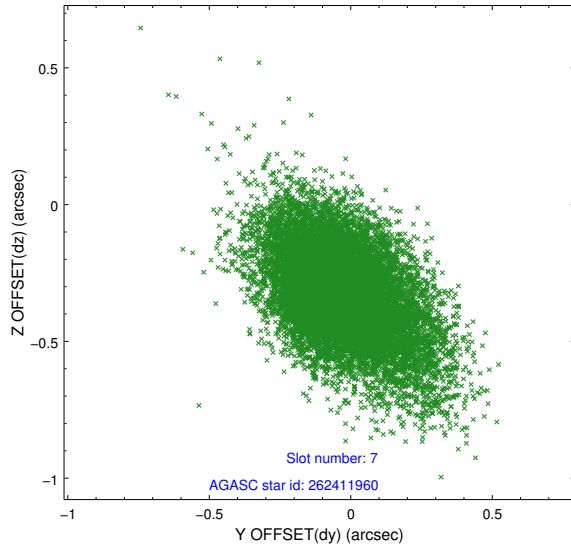
2.4.3 Slot 5



2.4.4 Slot 6

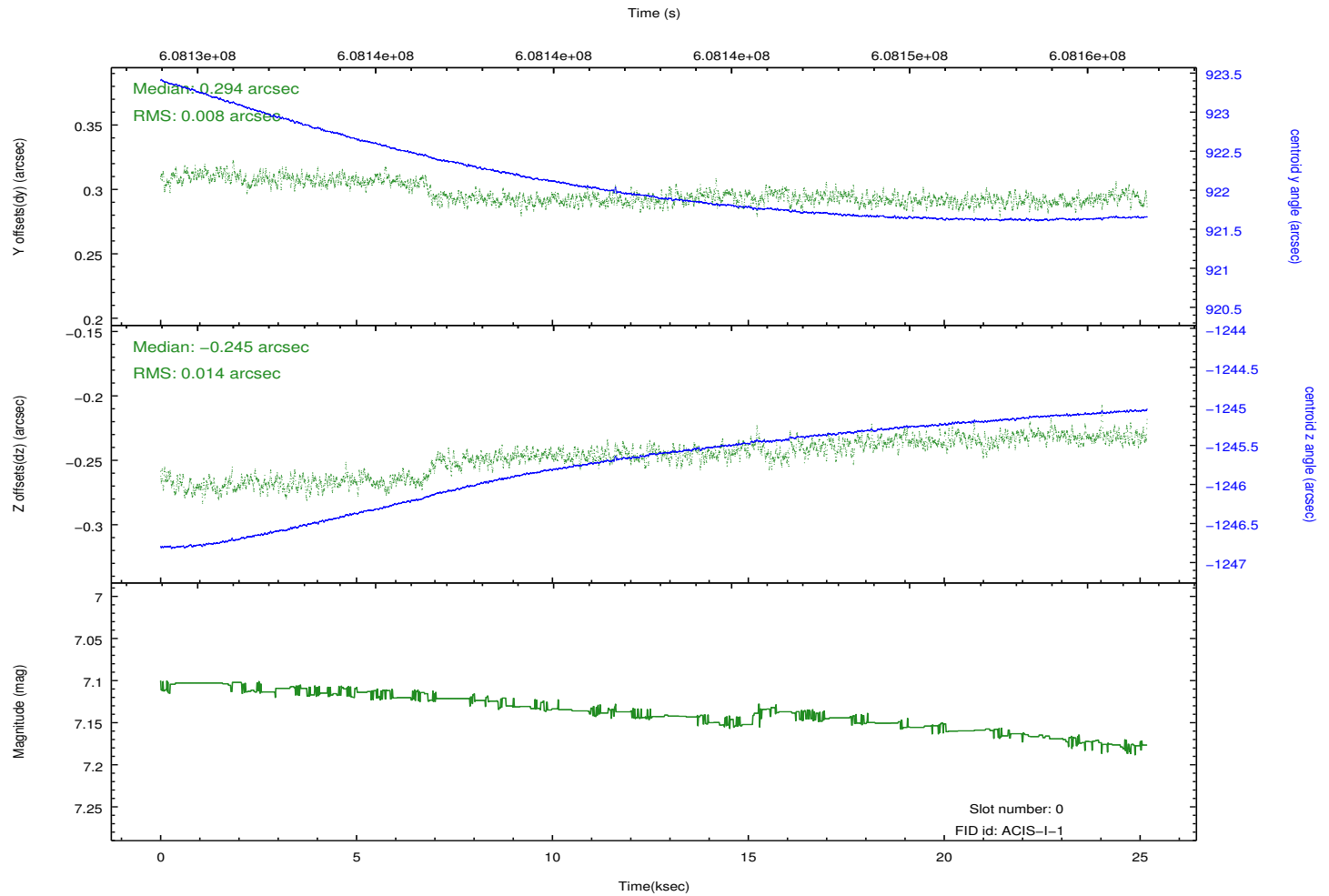
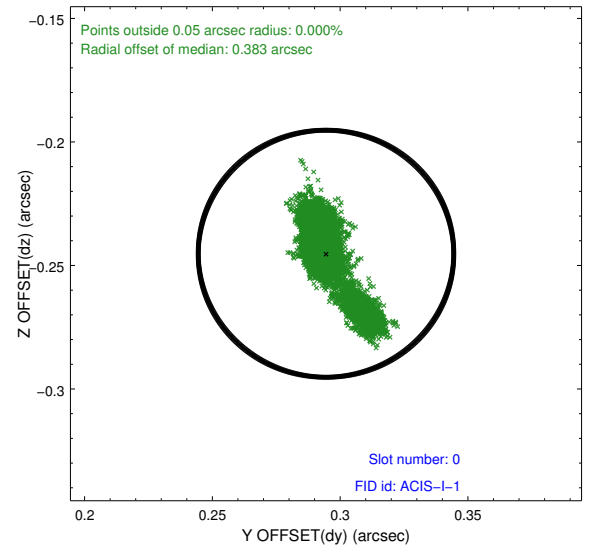
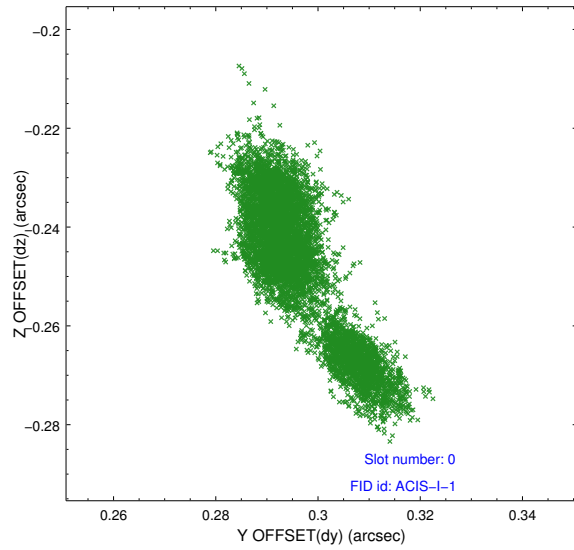


2.4.5 Slot 7

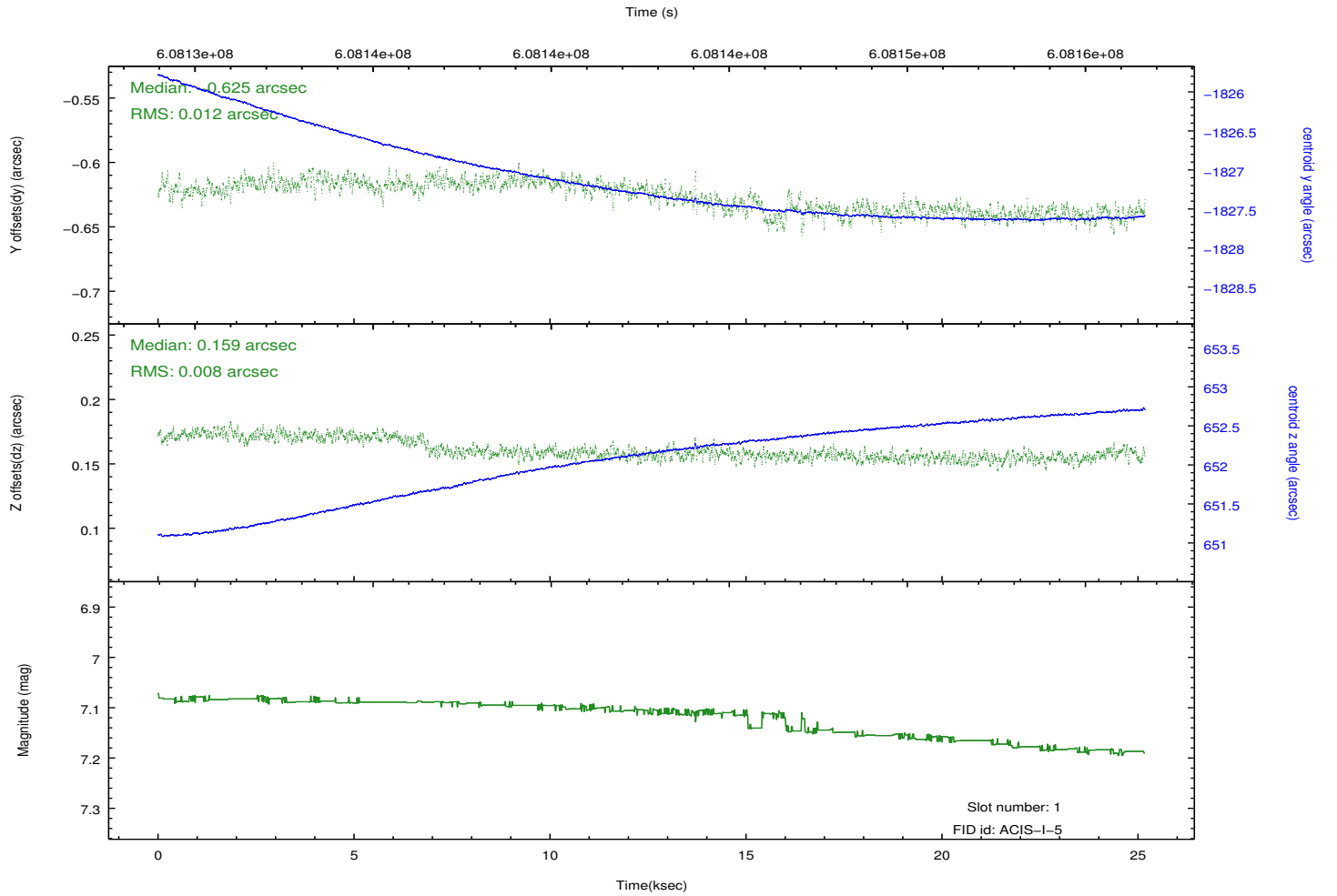
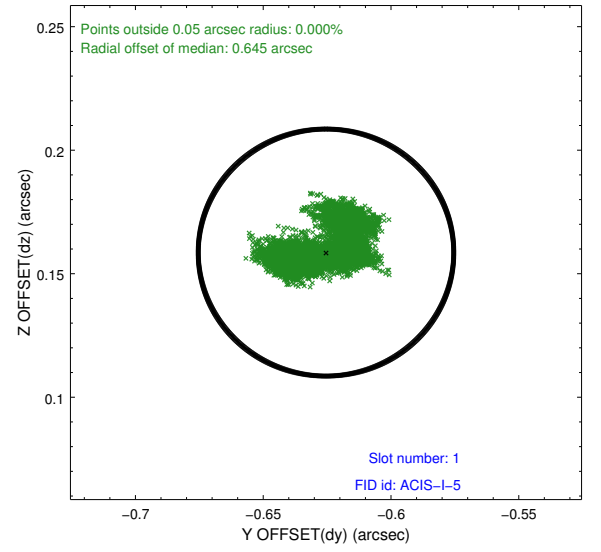
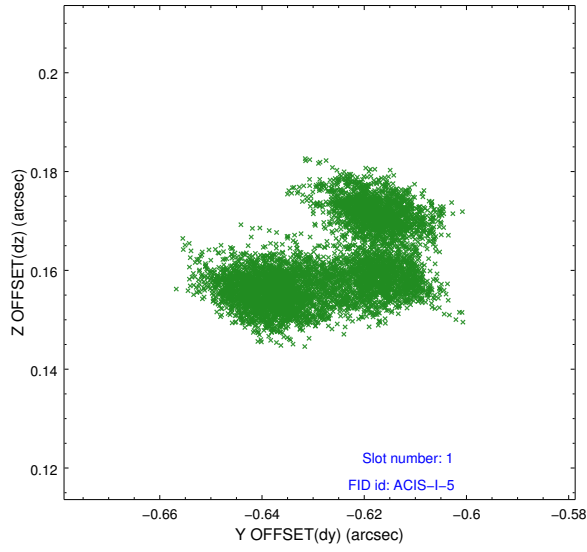


2.5 FID Slots

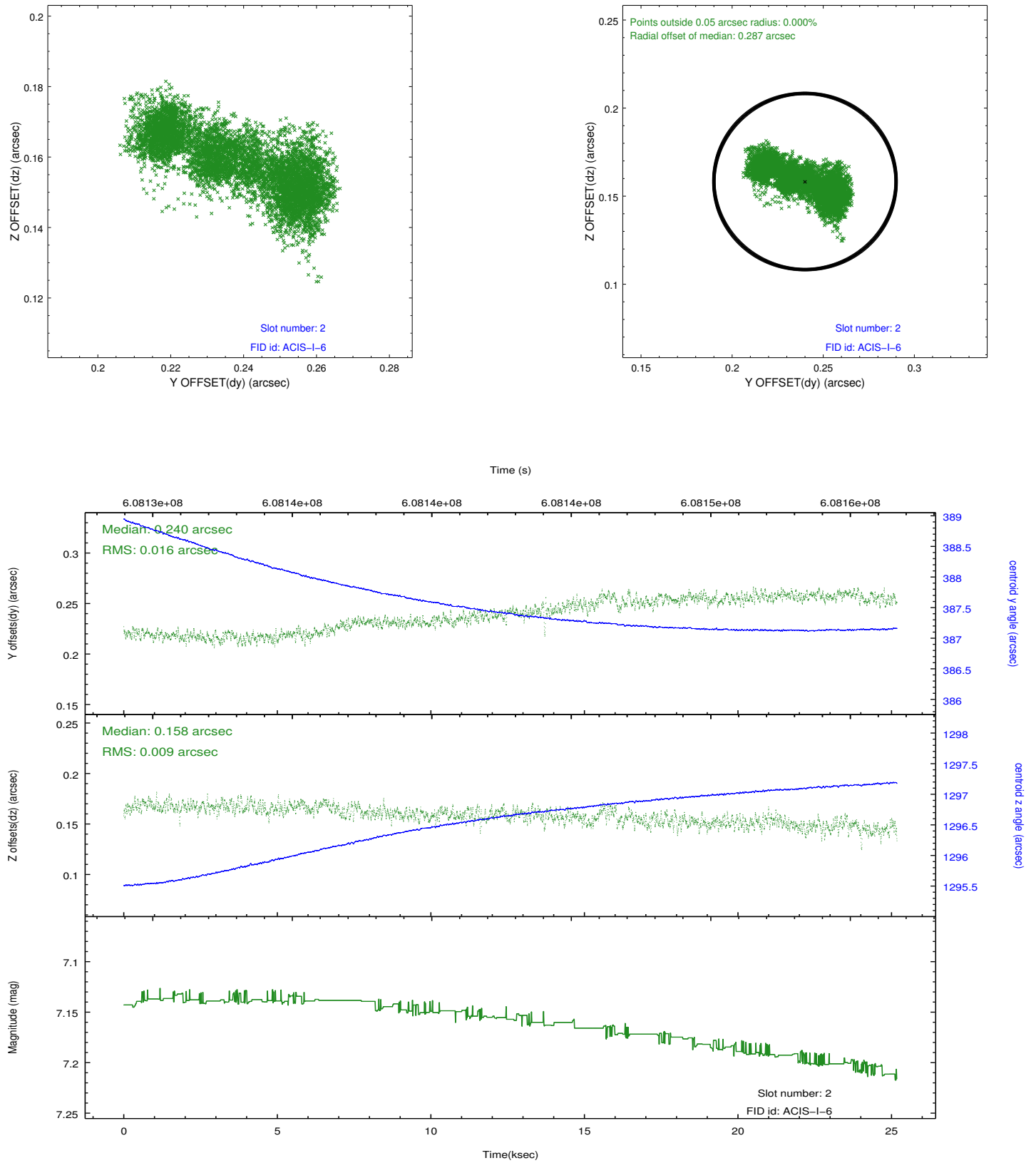
2.5.1 Slot 0



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)	2017.04.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.770949821234

A.2 Comments

Window preference met.