

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 13 - L2 Version 5
Chandra X-Ray Center

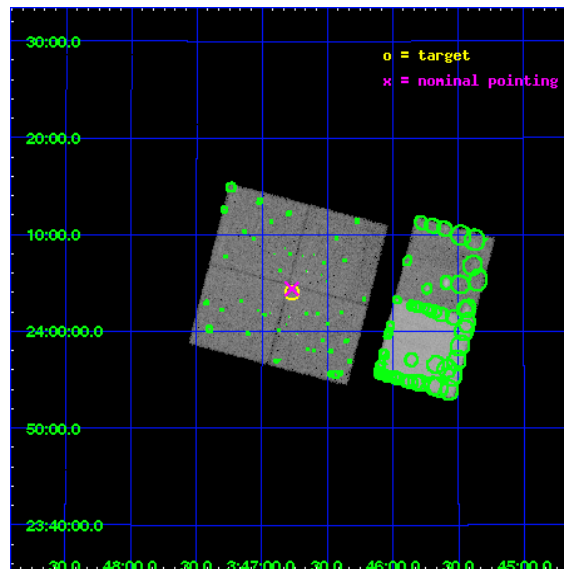
L2 Processing Date : Nov 17 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

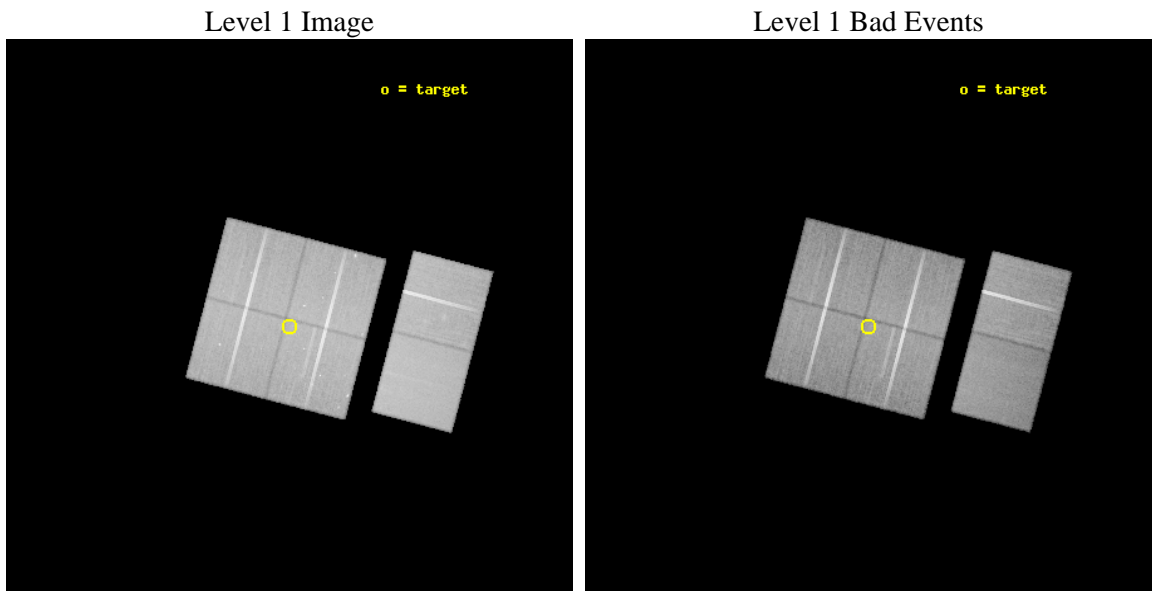
seq_num	200011	Sequence number
obs_id	13	Observation id
title	DEEP ACIS IMAGING OF THE CORE OF THE PLEIADES CLUSTER	Proposal tit
observer	Dr. Jeffrey Linsky	Principal investigator
object	PLEIADES	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	56.691667	Observer's specified target RA
dec_targ	24.068333	Observer's specified target Dec
ra_nom	56.692647351349	Nominal RA
dec_nom	24.073720749009	Nominal Dec
roll_nom	104.68541910164	Nominal Roll
revision	5	Processing version of data
ontime	34902.400032505	Sum of GTIs [s]
livetime	34460.444827592	Livetime [s]
ontime0	34899.159052365	Sum of GTIs [s]
ontime1	34902.400032505	Sum of GTIs [s]
ontime2	34902.400032505	Sum of GTIs [s]
ontime3	34902.400032505	Sum of GTIs [s]
ontime6	34902.400032505	Sum of GTIs [s]
ontime7	34902.400032505	Sum of GTIs [s]
l2events	291321	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	60000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	34902.400032505	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	34899.159052365	Sum of GTIs [s]
date	2009-11-17T12:12:21	Date and time of file creation	ontime1	34902.400032505	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	34902.400032505	Sum of GTIs [s]
			ontime3	34902.400032505	Sum of GTIs [s]
			ontime6	34902.400032505	Sum of GTIs [s]
			ontime7	34902.400032505	Sum of GTIs [s]
			l1events	2140985	Number of level 1 events

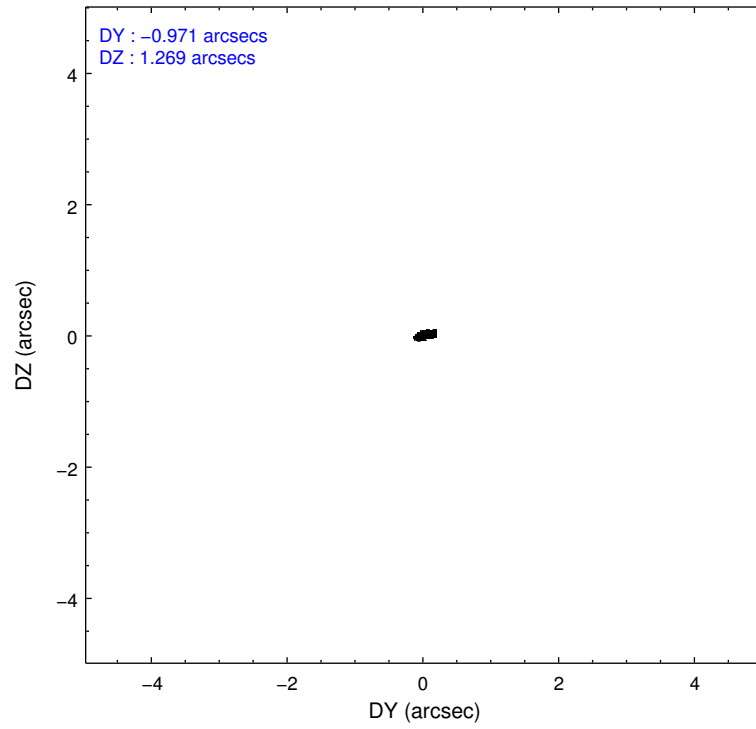
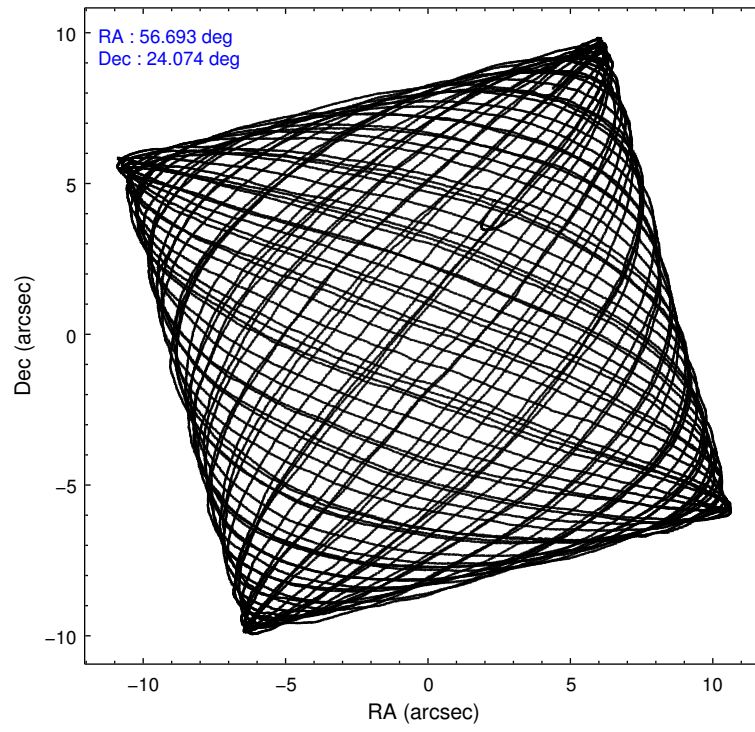
2.1.3 Events

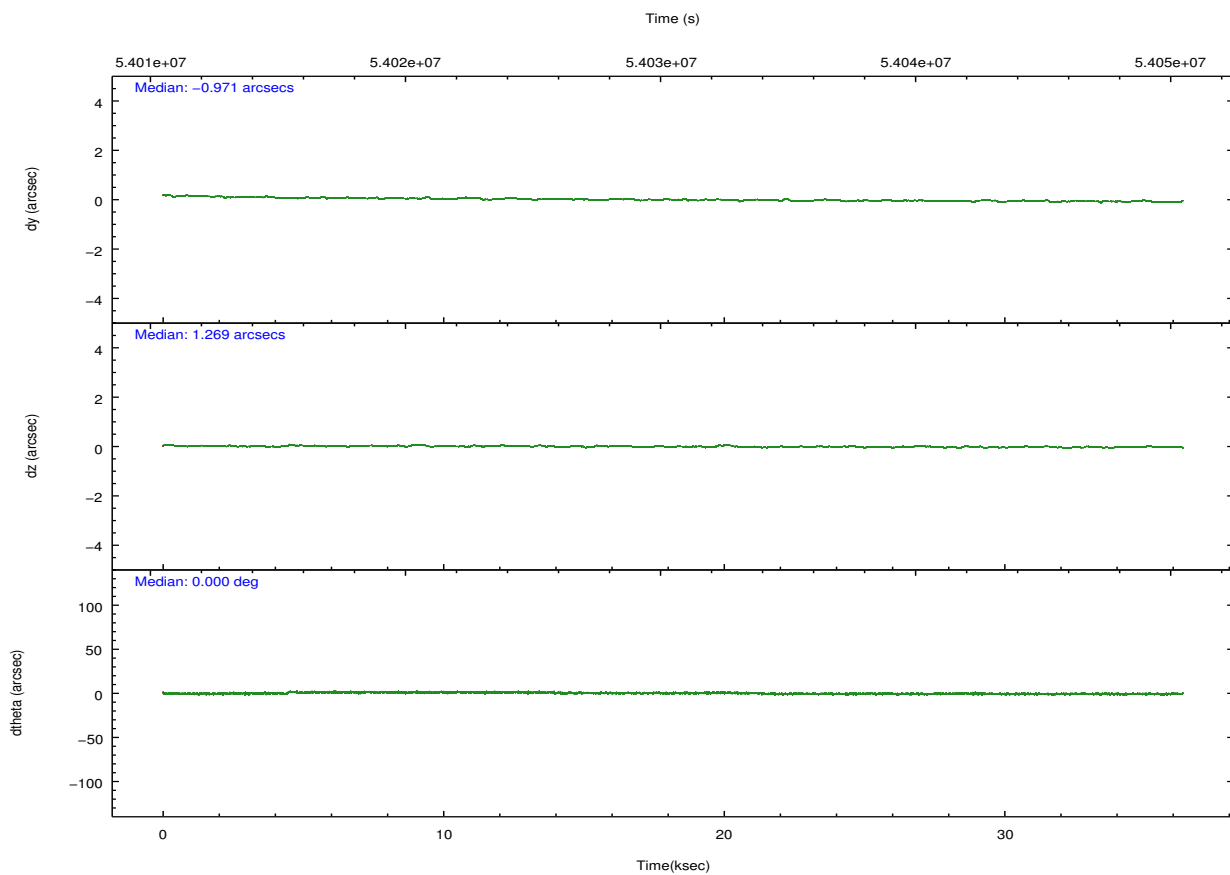
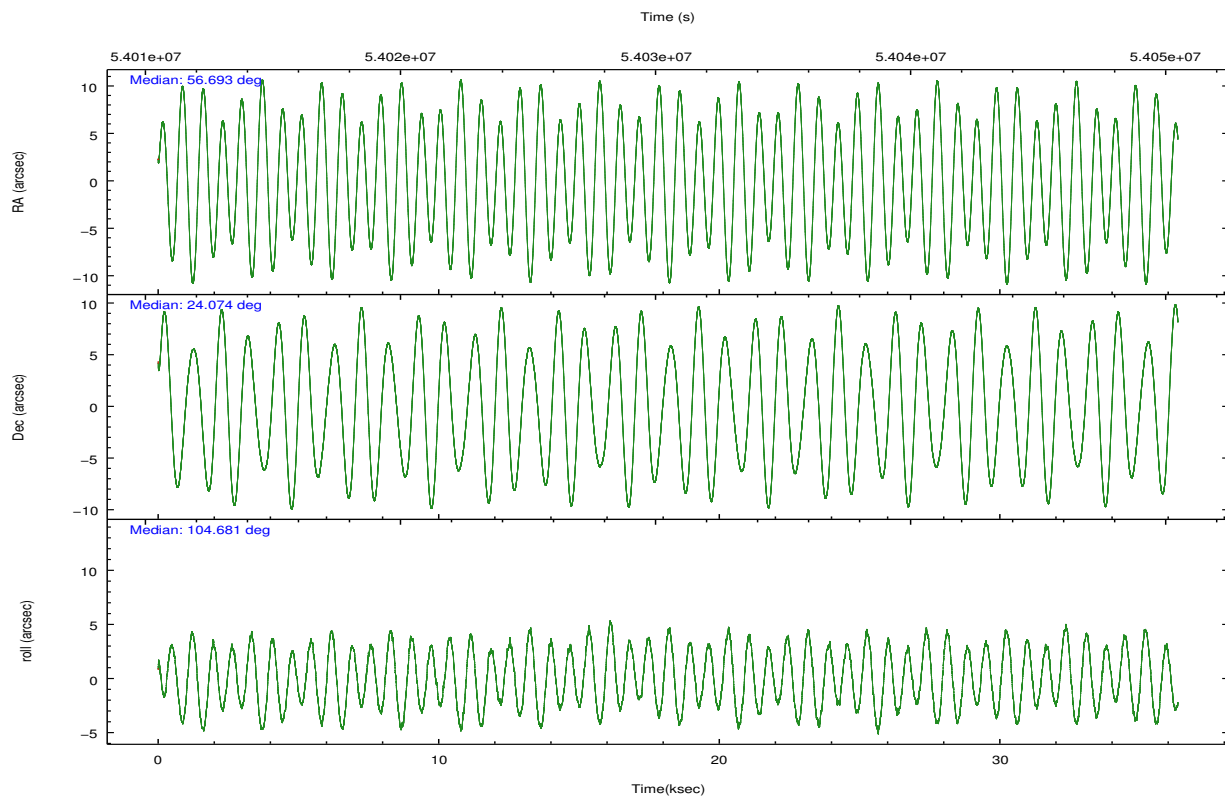
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	339592	334007	362131	350750	362921	391584	grade 0 events	9225	9583	9726	10908	9126	10812
rejected events	306859	299454	329505	315808	328345	250295		2%	2%	2%	3%	2%	2%
rejected %	90%	89%	90%	90%	90%	63%	grade 1 events	82	93	85	87	57	210
								0%	0%	0%	0%	0%	0%
							grade 2 events	13119	13403	13148	13856	15009	34109
								3%	4%	3%	3%	4%	8%
							grade 3 events	2556	2794	2137	2235	2248	9881
								0%	0%	0%	0%	0%	2%
							grade 4 events	2380	2636	2198	2140	2105	8955
								0%	0%	0%	0%	0%	2%
							grade 5 events	6597	7134	5960	6407	6510	22416
								1%	2%	1%	1%	1%	5%
							grade 6 events	7513	8489	7590	7944	9100	99851
								2%	2%	2%	2%	2%	25%
							grade 7 events	298120	289875	321287	307173	318766	205350
								87%	86%	88%	87%	87%	52%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	56.713568	56.69264735134949	Subarray requested	NONE	NONE
Pointing Dec	24.053531	24.07372074900897	Alternating exposures requested	N	N
Pointing Roll	104.468204	104.6854191016375	Primary exposure time	0.000000	3.2
Window start time	53481664.184000	53481664.184000			
Window stop time	58838464.184000	58838464.184000			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	54012803.184000	54011867.802978			
Observation start date	1999-09-18T03:32:19	1999-09-18T03:17:47			
Observation end time	54072803.184000	54050244.316855			
Observation end date	1999-09-18T20:12:19	1999-09-18T13:57:24			
Read mode	TIMED	TIMED			

2.3 Aspect



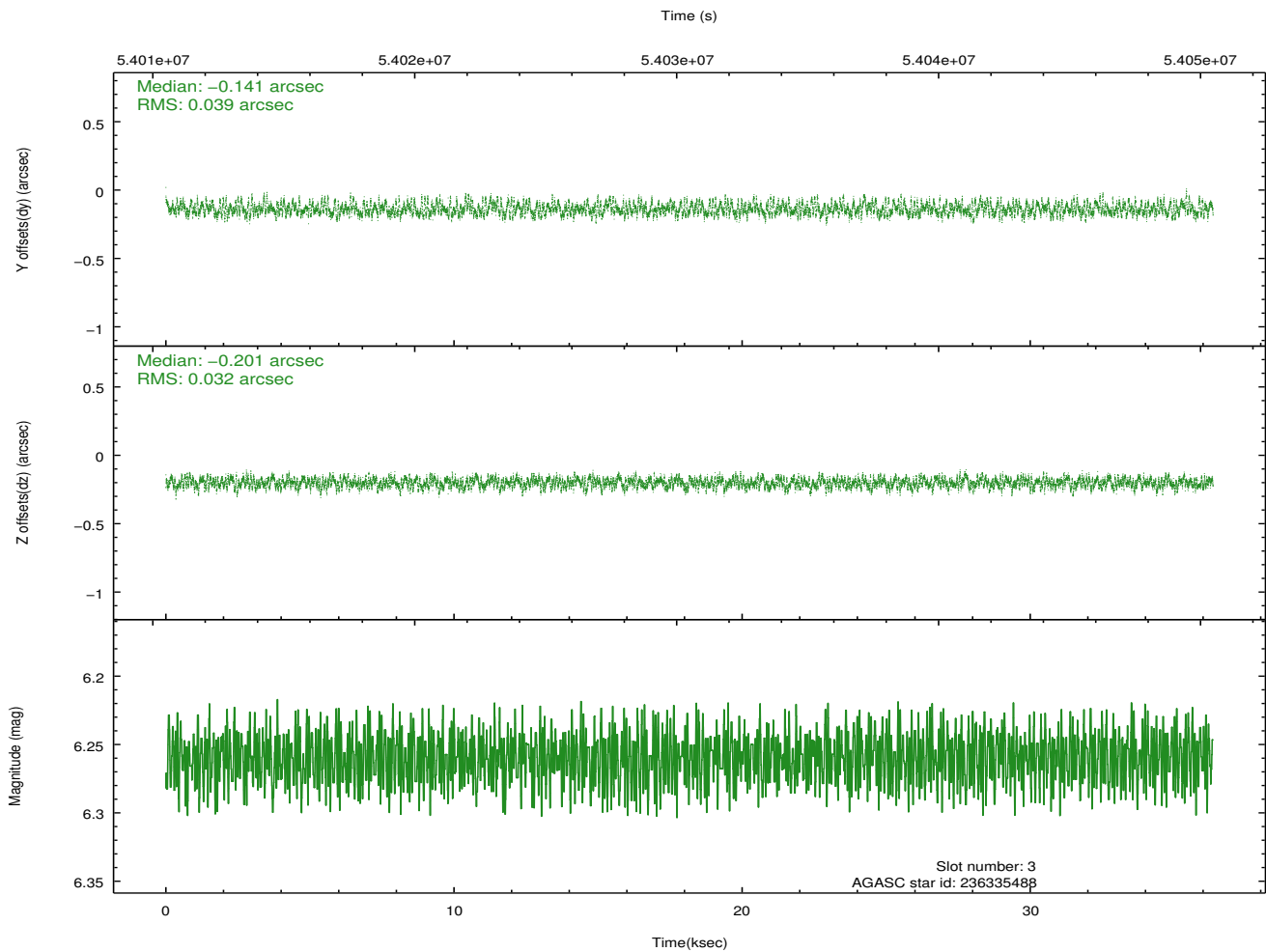
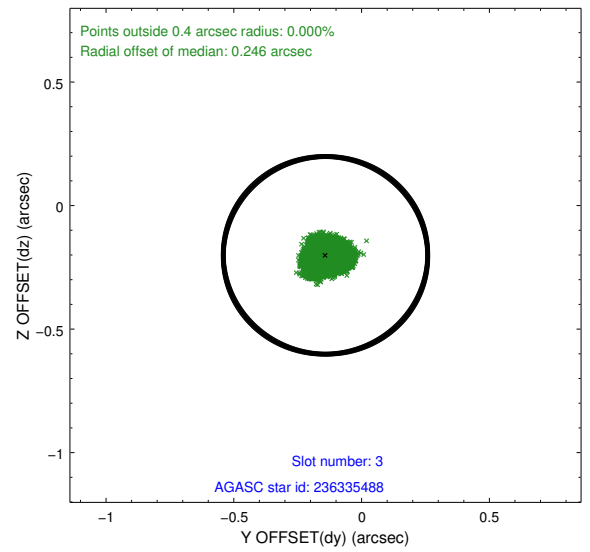
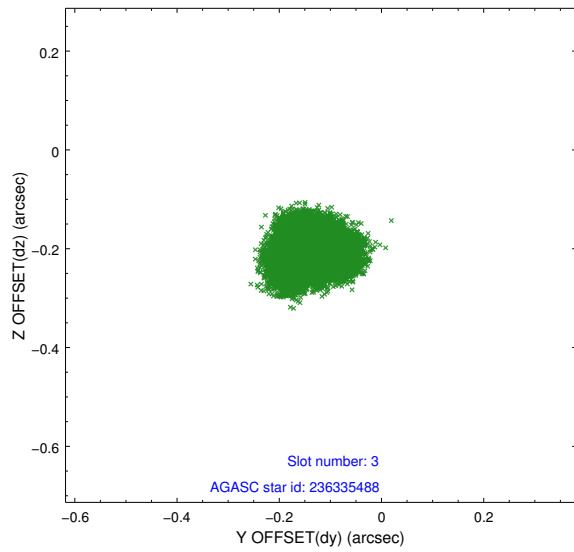


Slot Statistics

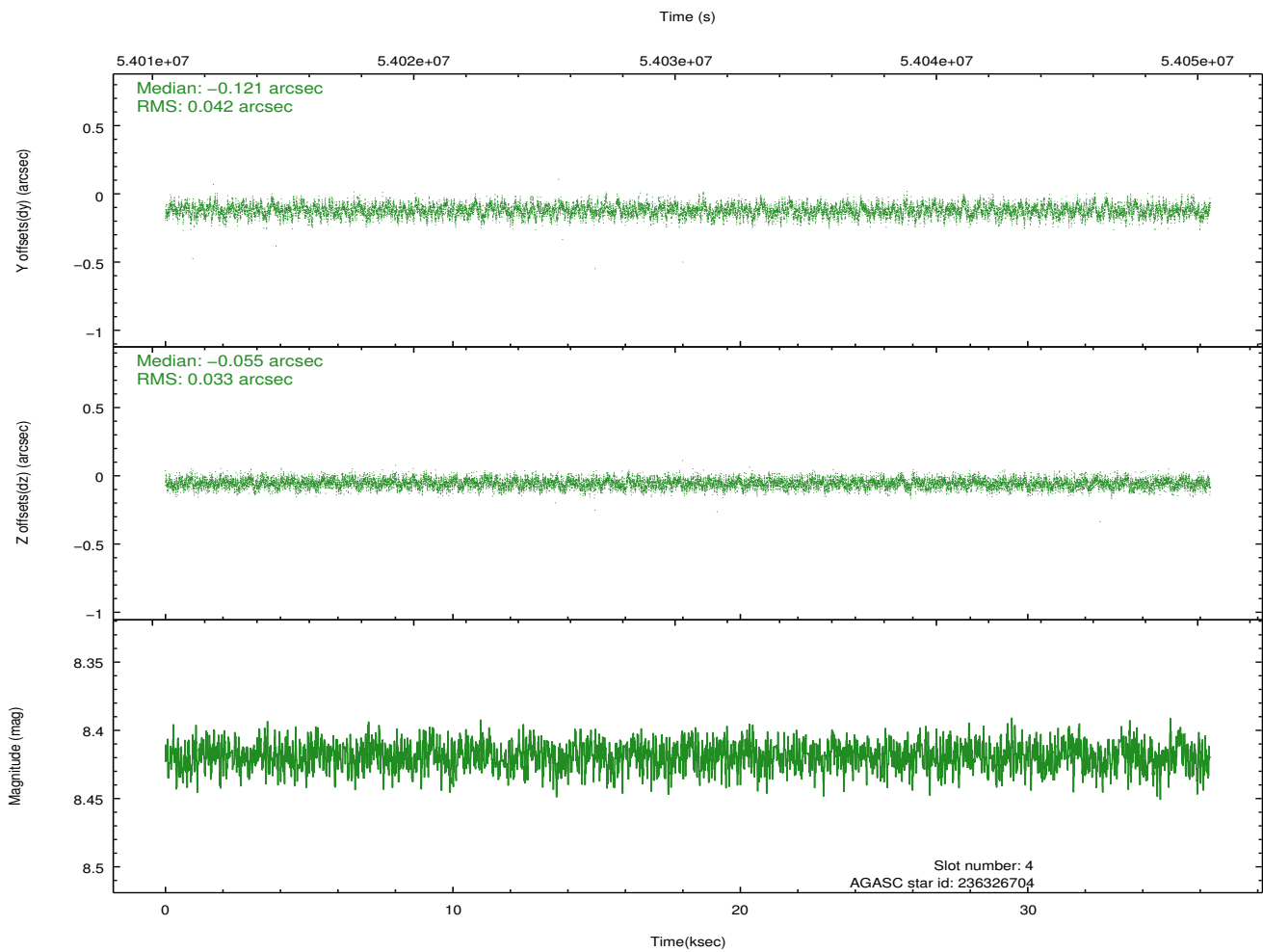
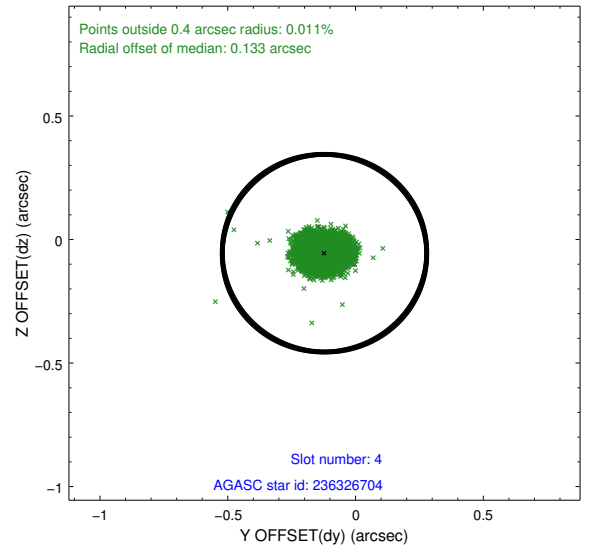
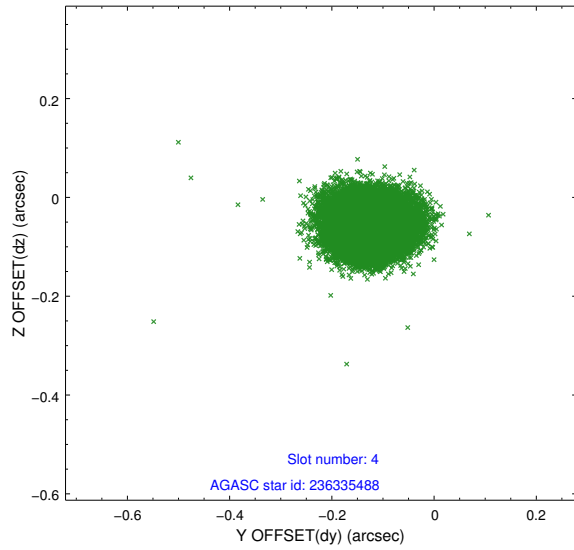
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-3	7.44	17729	0.038	0.108	0.011	0.017	0.000000	0.000000	58.28	-957.63
1	FID	ACIS-I-4	7.23	17729	0.087	-0.054	0.009	0.014	0.000000	0.000000	2160.96	1075.18
2	FID	ACIS-I-5	7.23	17731	-0.224	0.015	0.008	0.013	0.000000	0.000000	-1807.39	1073.20
3	GUIDE	236335488	6.26	17731	-0.141	-0.201	0.055	0.085	56.476986	24.554511	1940.54	299.96
4	GUIDE	236326704	8.42	17725	-0.121	-0.055	0.057	0.091	56.001117	24.556994	2343.69	1805.42
5	GUIDE	235938584	9.58	17263	0.144	0.057	0.092	0.147	57.471961	23.530665	-2440.82	-1954.68
6	GUIDE	235807784	9.18	17721	0.140	-0.224	0.111	0.181	56.213483	23.268927	-2319.04	2306.68
7	GUIDE	235936736	9.02	17717	-0.027	0.424	0.075	0.121	57.441349	24.245808	79.61	-2486.42

2.4 Star Slots

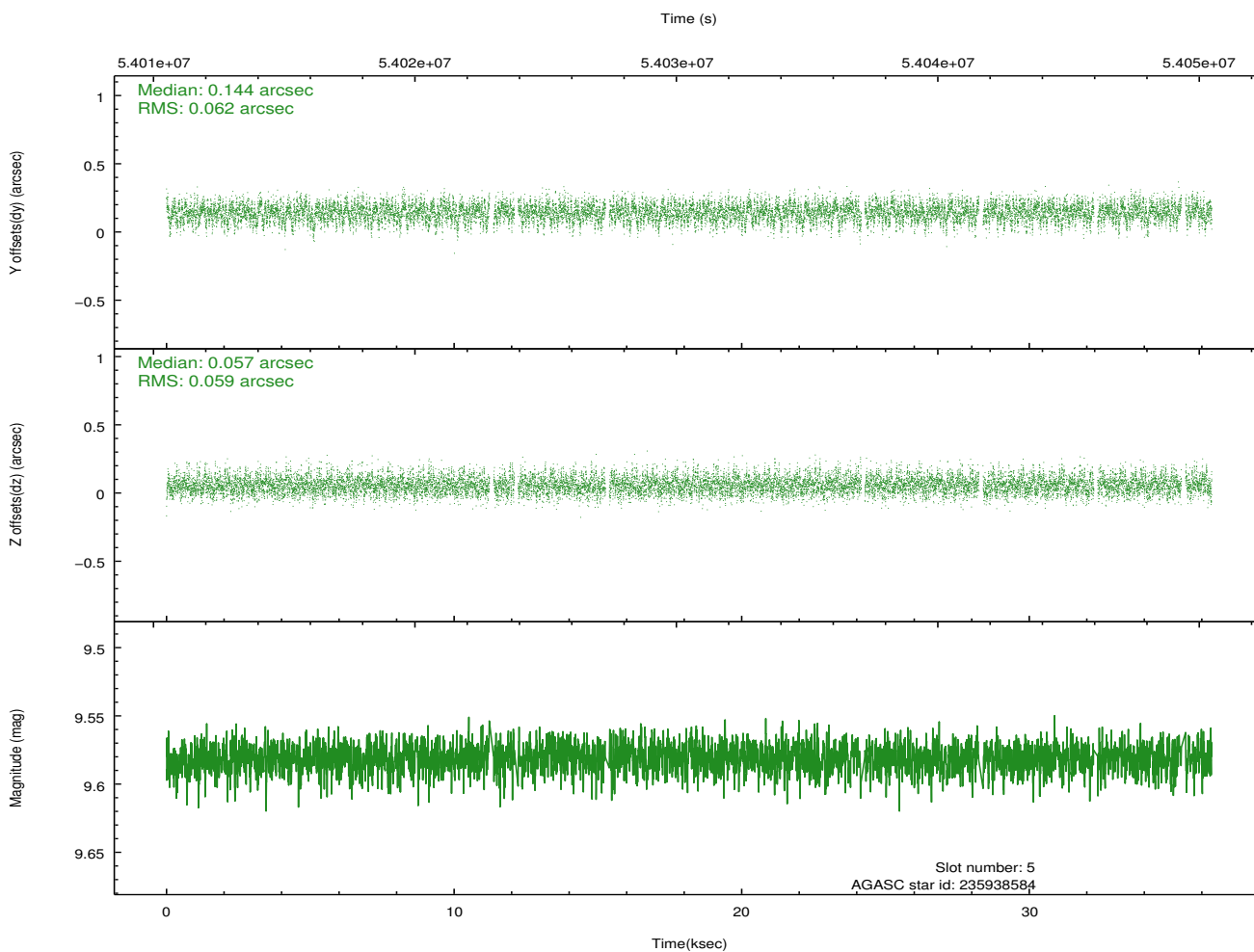
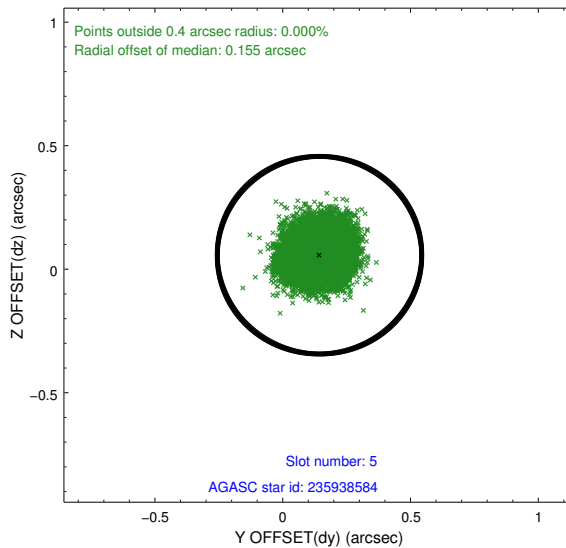
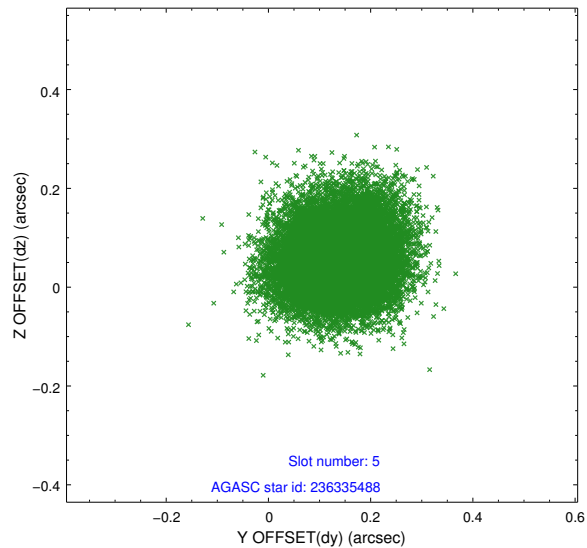
2.4.1 Slot 3



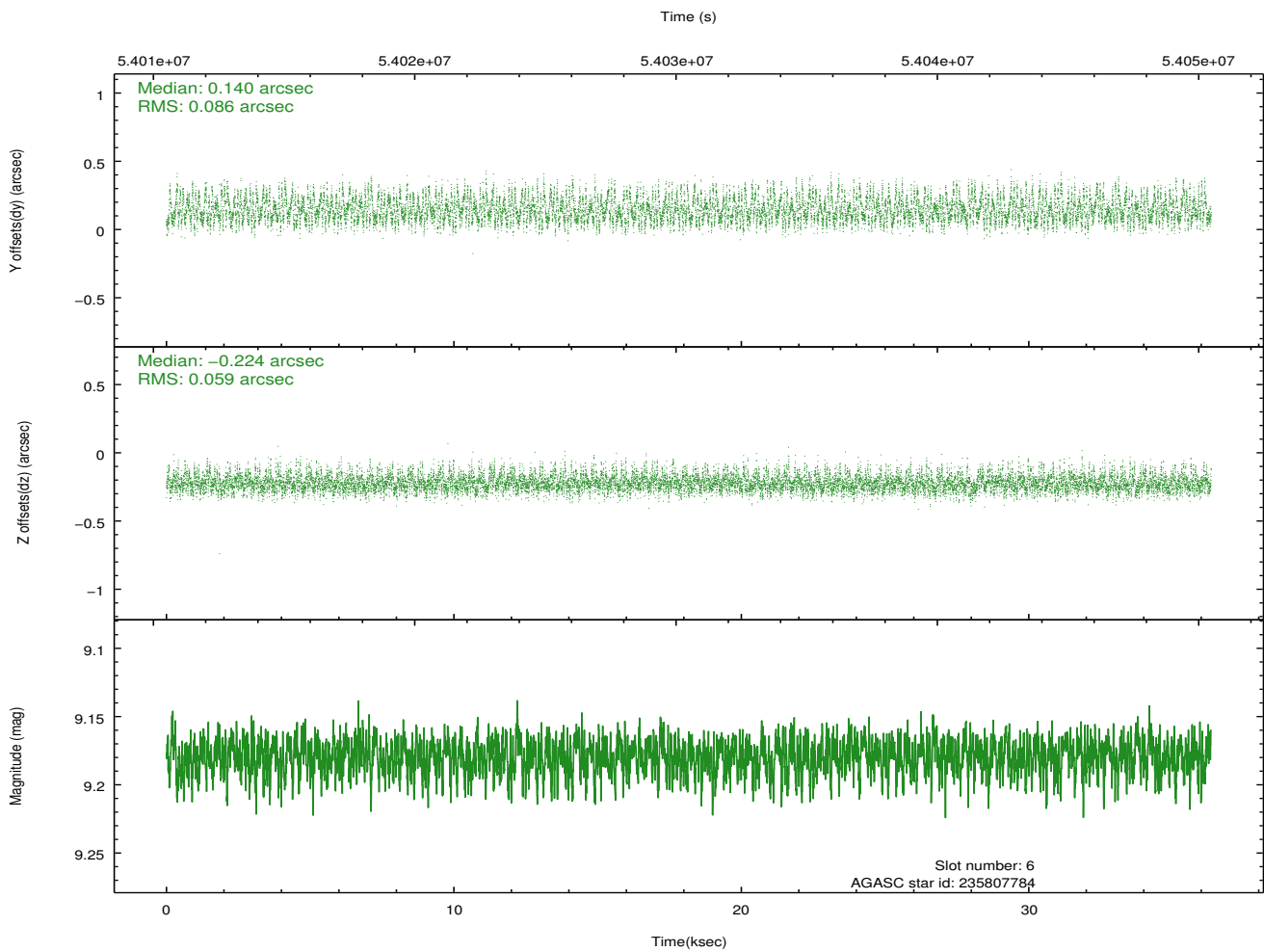
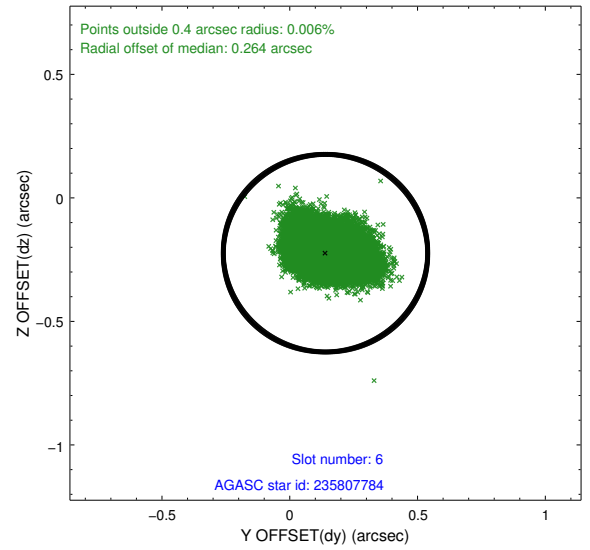
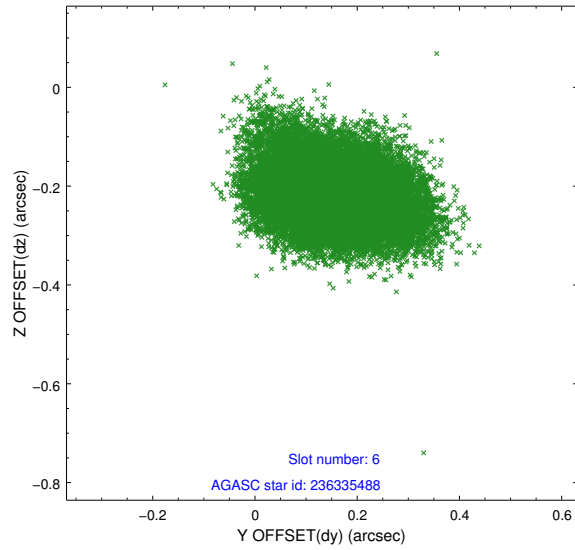
2.4.2 Slot 4



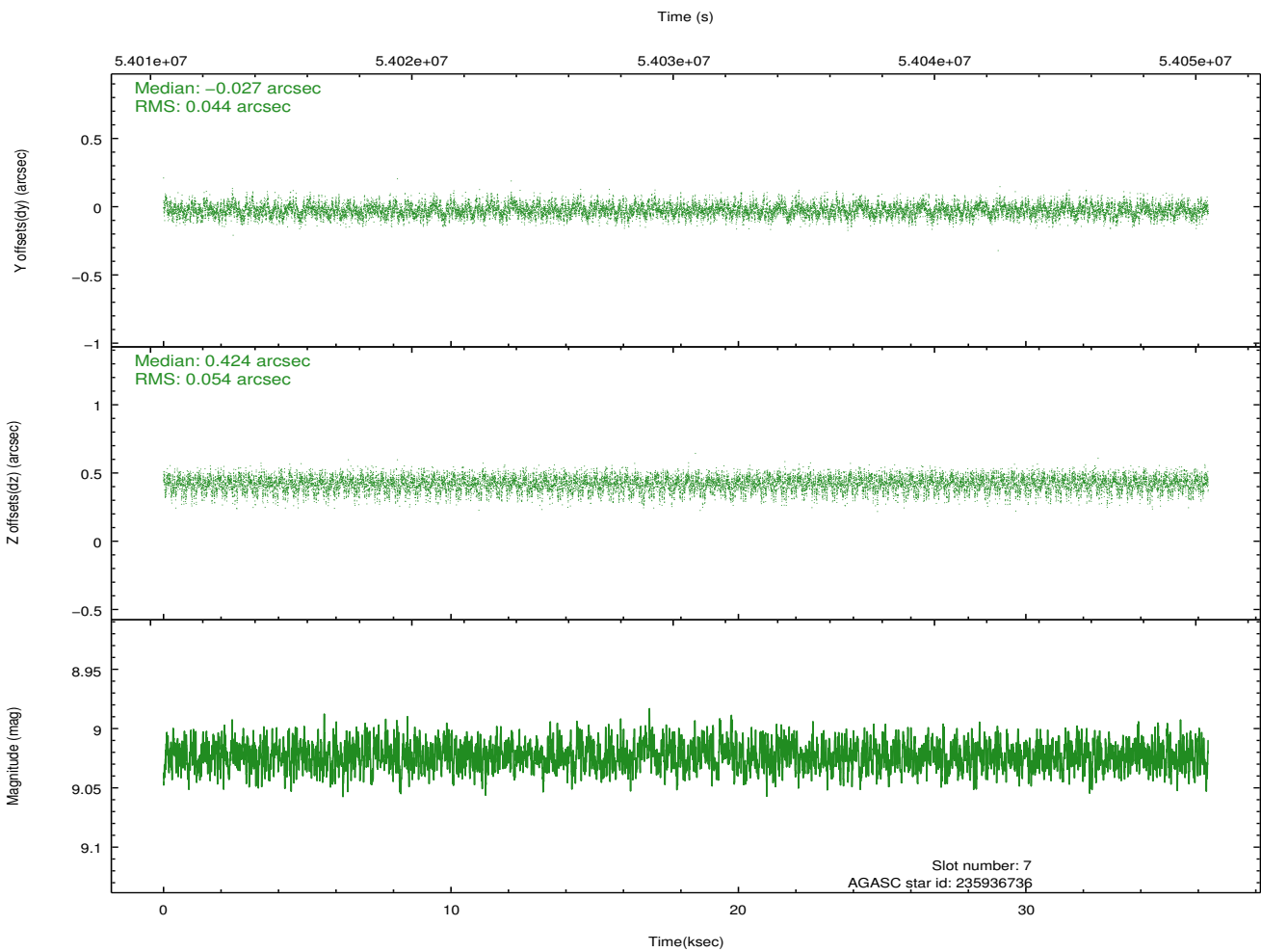
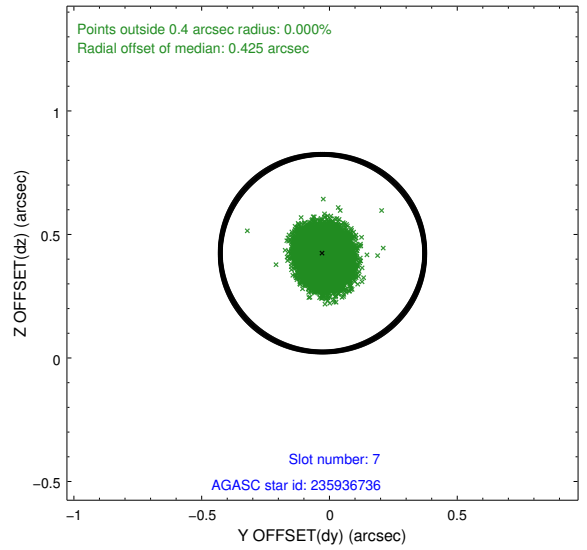
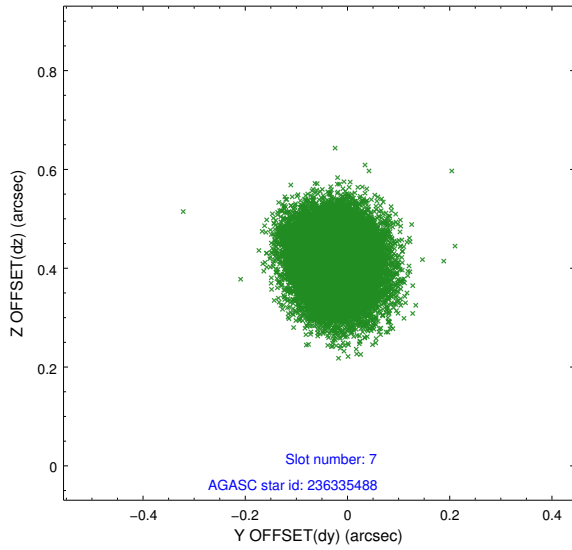
2.4.3 Slot 5



2.4.4 Slot 6

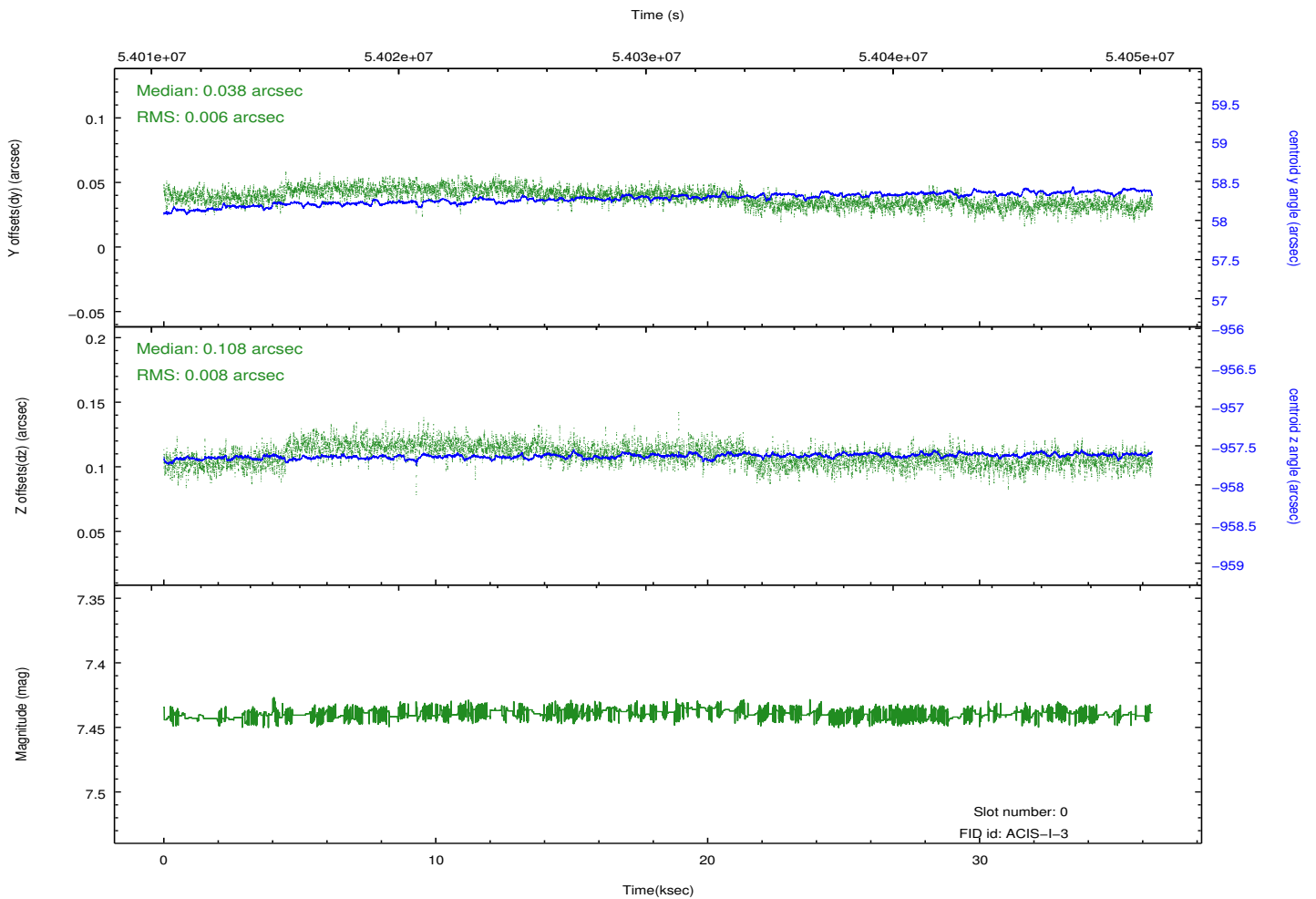
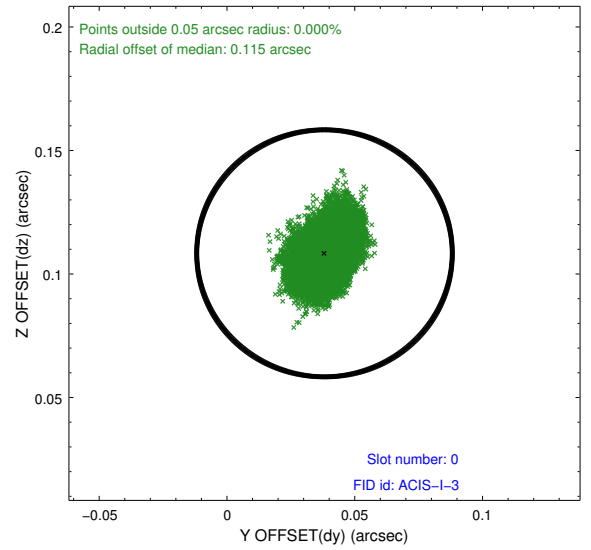
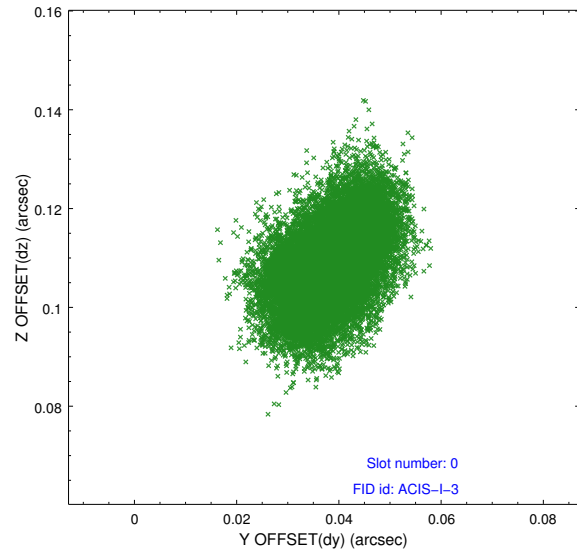


2.4.5 Slot 7

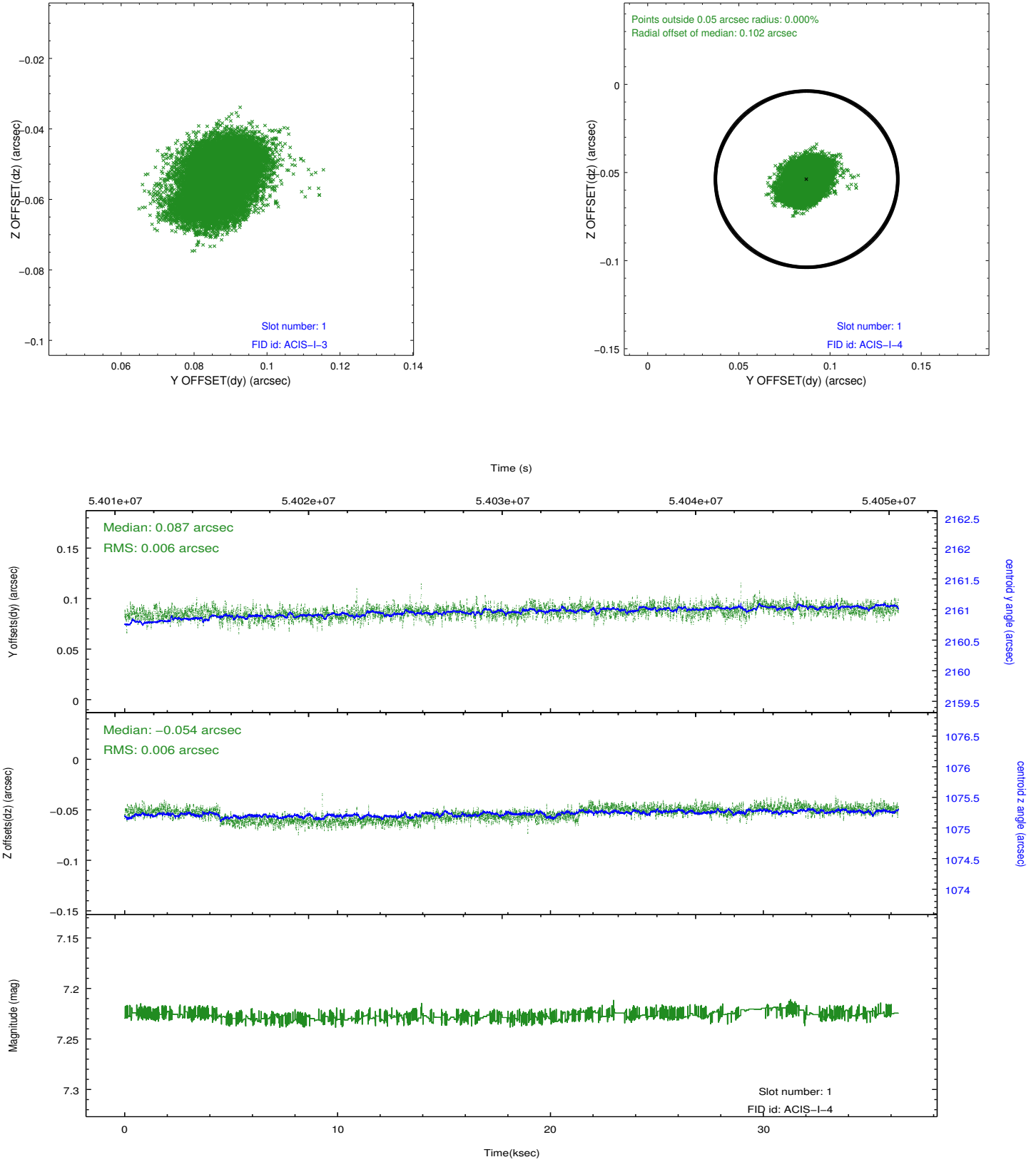


2.5 FID Slots

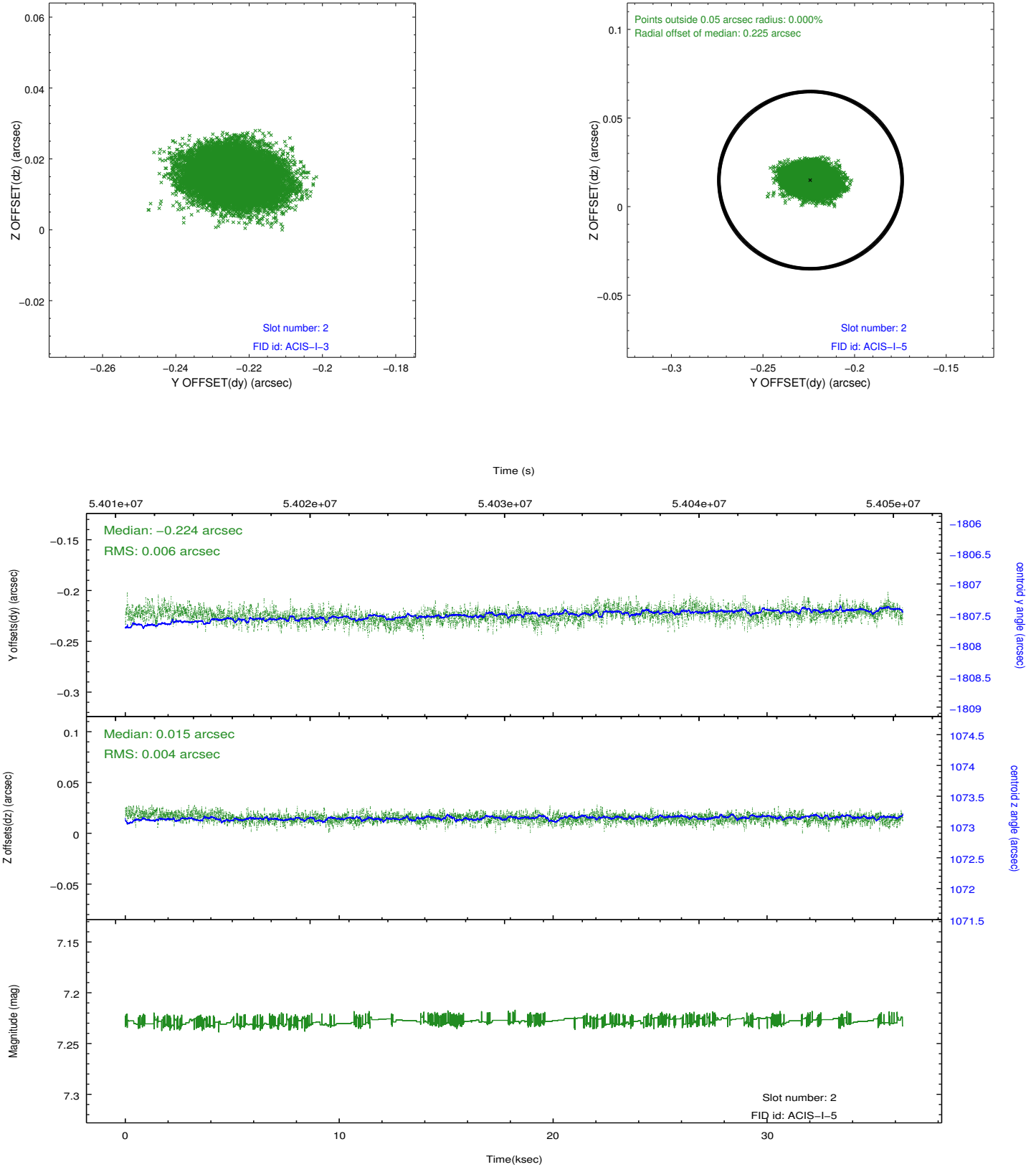
2.5.1 Slot 0



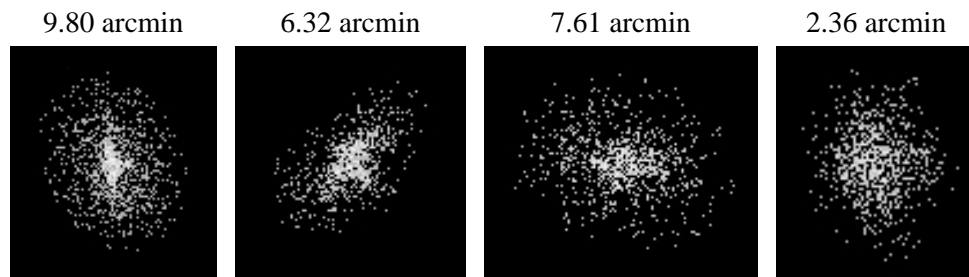
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2009.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.905

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C throughout this observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.