

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 5929 - L2 Version 3
Chandra X-Ray Center

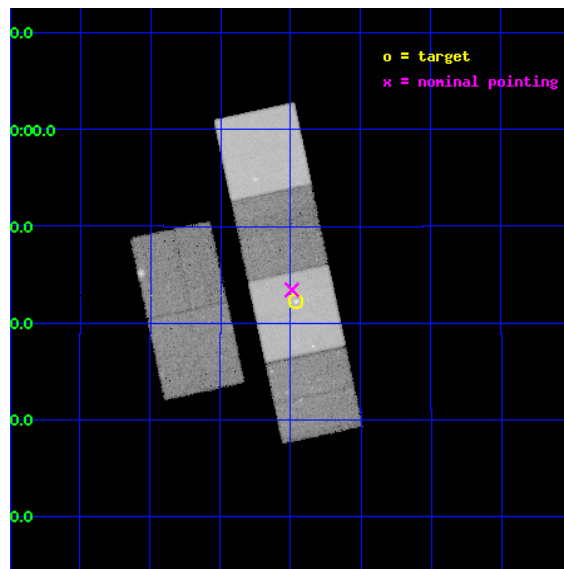
L2 Processing Date : Dec 17 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

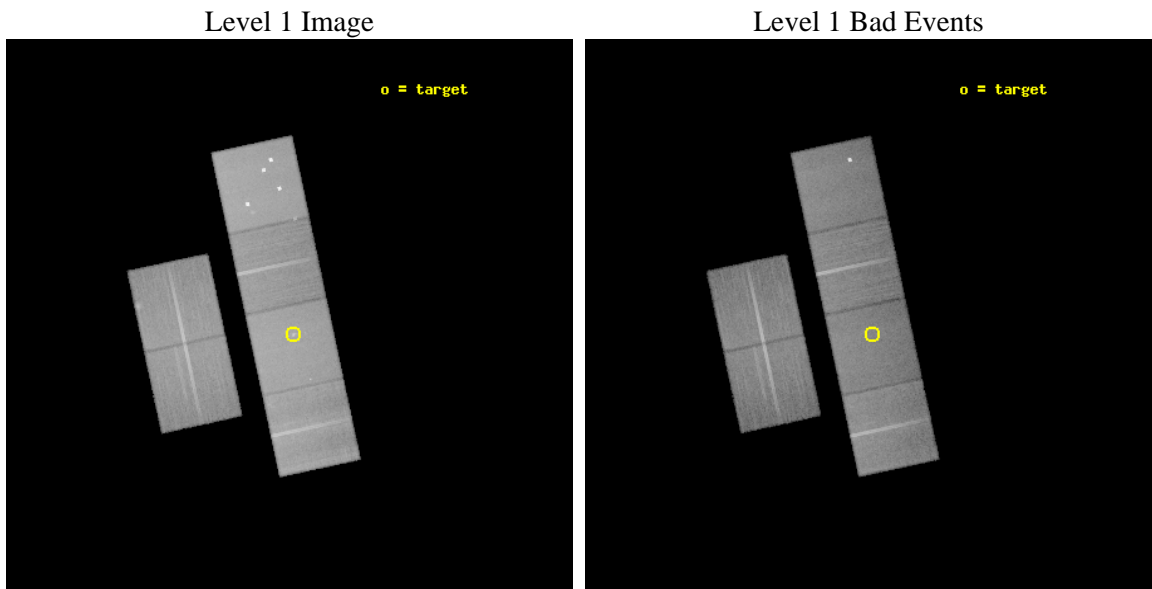
seq_num	600448	Sequence number
obs_id	5929	Observation id
title	X-rays and Galactic Structure	Proposal title
observer	Douglas Swartz	Principal investigator
object	NGC 3351	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.991667	Observer's specified target RA [deg]
dec_targ	11.704167	Observer's specified target Dec [deg]
ra_nom	160.99782918891	Nominal RA [deg]
dec_nom	11.724056551581	Nominal Dec [deg]
roll_nom	77.892386114965	Nominal Roll [deg]
revision	3	Processing version of data
ontime	39958.399851143	Sum of GTIs [s]
livetime	39452.422532168	Livetime [s]
ontime2	39958.399851143	Sum of GTIs [s]
ontime3	39958.399851143	Sum of GTIs [s]
ontime5	39958.399851143	Sum of GTIs [s]
ontime6	39955.158860862	Sum of GTIs [s]
ontime7	39958.399851143	Sum of GTIs [s]
ontime8	39958.399851143	Sum of GTIs [s]
l2events	476290	Number of level 2 events



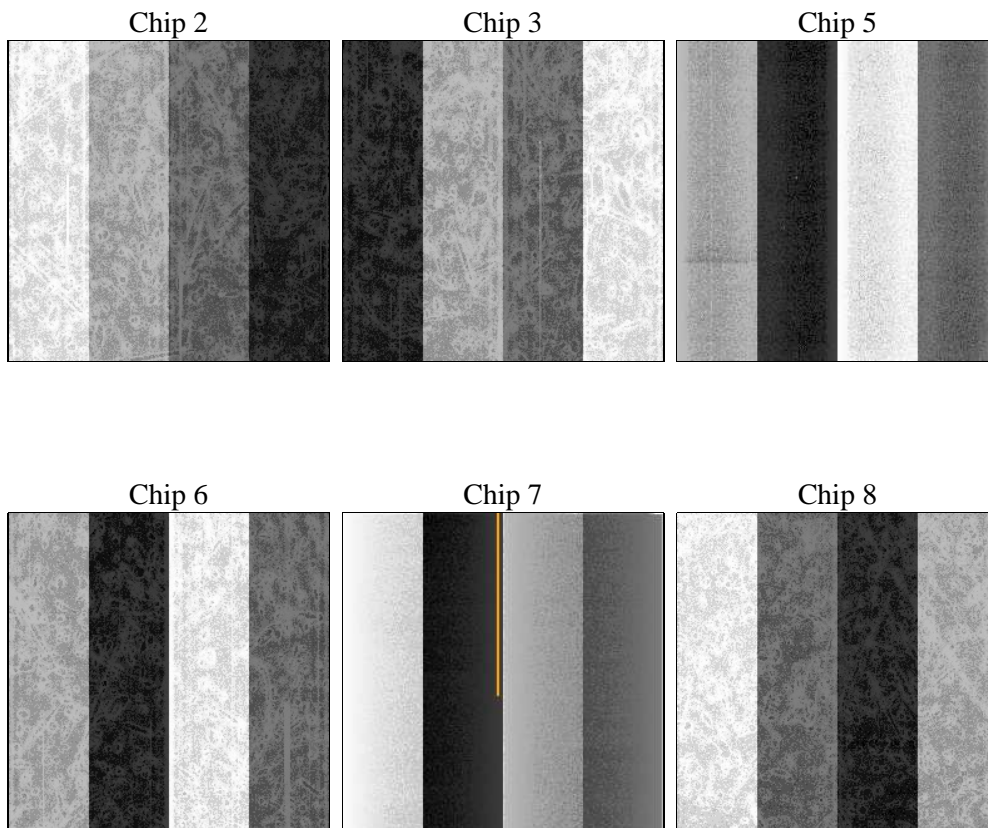
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	39958.399851143	Sum of GTIs [s]
caldbver	4.5.5	 	ontime2	39958.399851143	Sum of GTIs [s]
date	2012-12-17T07:19:26	Date and time of file creation	ontime3	39958.399851143	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	39958.399851143	Sum of GTIs [s]
			ontime6	39955.158860862	Sum of GTIs [s]
			ontime7	39958.399851143	Sum of GTIs [s]
			ontime8	39958.399851143	Sum of GTIs [s]
			l1events	2091149	Number of level 1 events

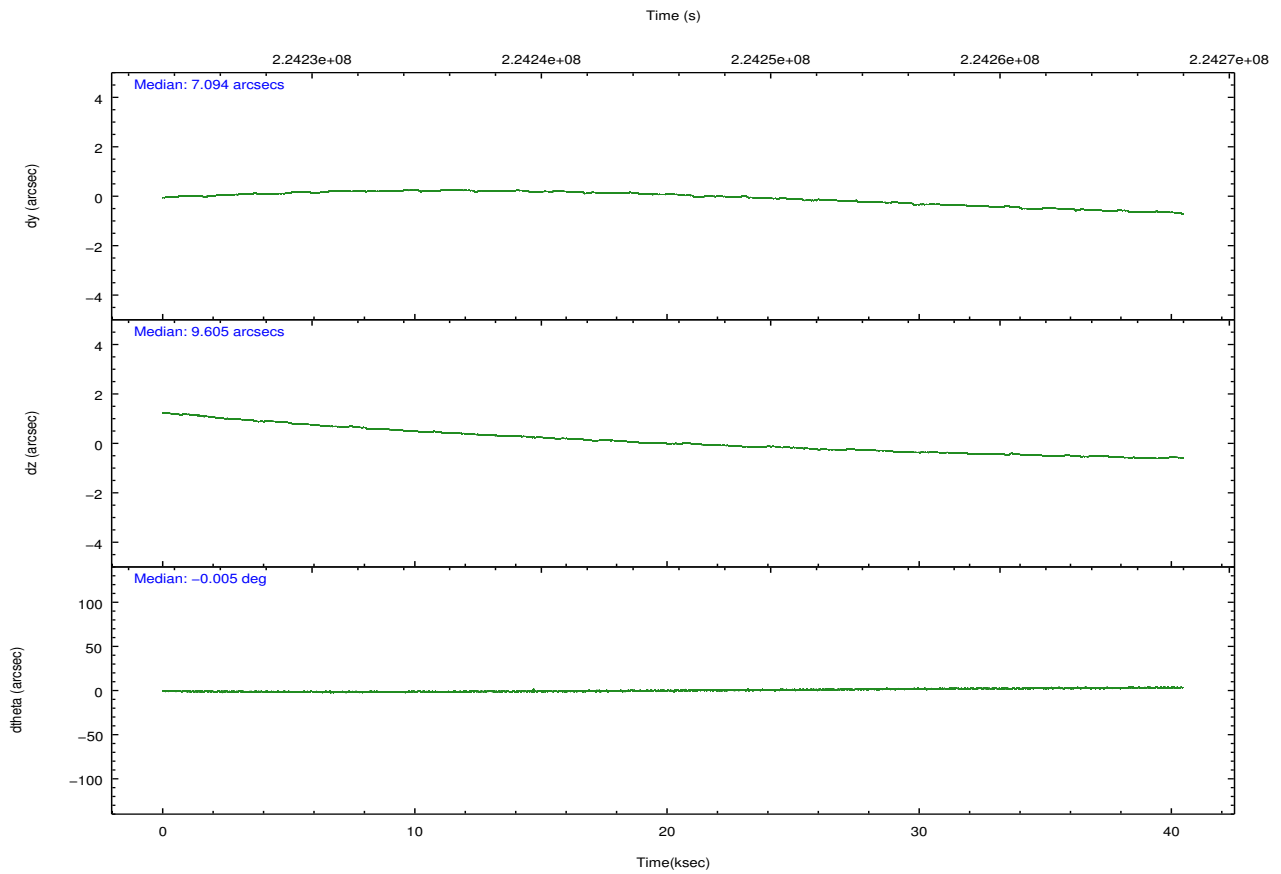
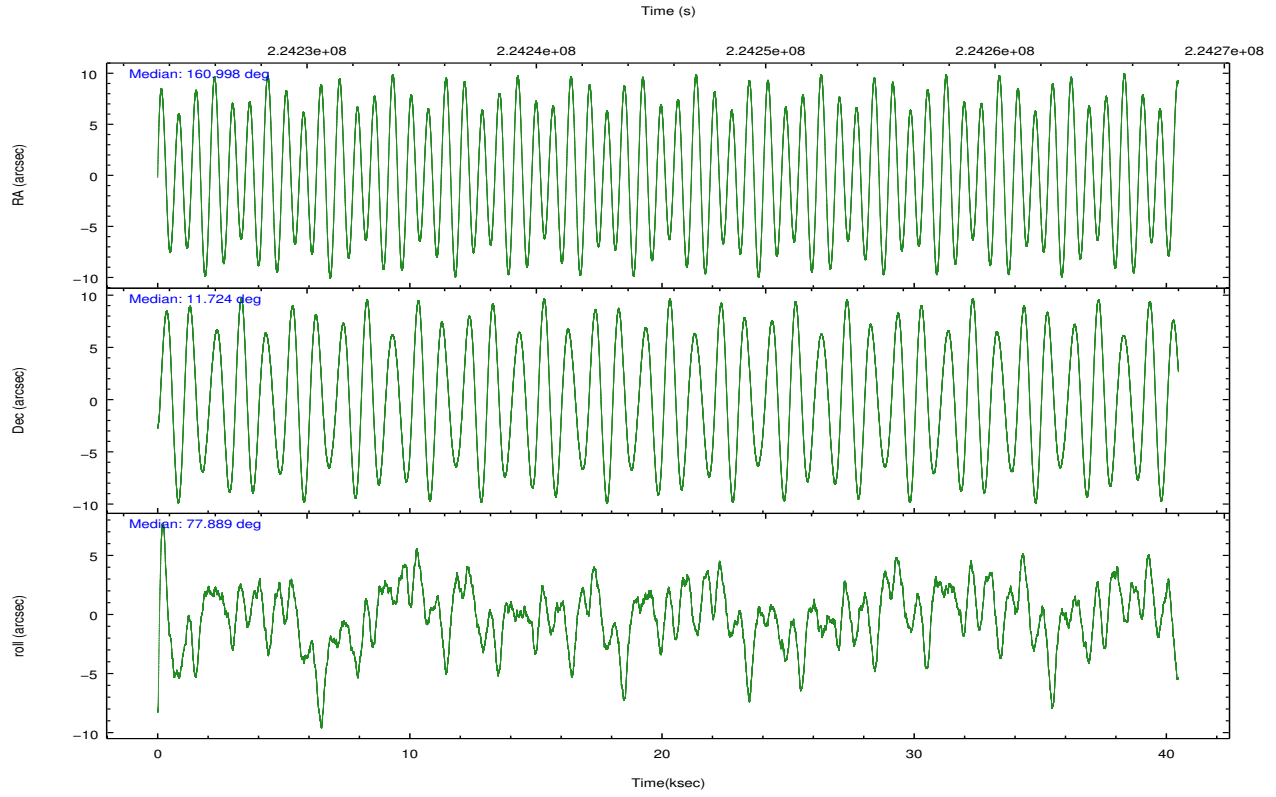
2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	293618	279124	467607	288697	396218	365885	grade 0 events	16364	14865	45902	13828	15293	26353
rejected events	257619	245011	241049	253885	229782	284790		5%	5%	9%	4%	3%	7%
rejected %	87%	87%	51%	87%	57%	77%	grade 1 events	171	149	2960	142	373	269
								0%	0%	0%	0%	0%	0%
							grade 2 events	7390	6711	61179	7466	33267	17700
								2%	2%	13%	2%	8%	4%
							grade 3 events	3192	3357	7761	3328	14679	8554
								1%	1%	1%	1%	3%	2%
							grade 4 events	3315	3275	7495	3243	14560	7962
								1%	1%	1%	1%	3%	2%
							grade 5 events	11731	12923	34491	13625	37271	17599
								3%	4%	7%	4%	9%	4%
							grade 6 events	5745	5909	104267	6954	88666	20534
								1%	2%	22%	2%	22%	5%
							grade 7 events	245710	231935	203552	240111	192109	266914
								83%	83%	43%	83%	48%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	161.006724	160.9978291889113	Subarray requested	NONE	NONE
[deg] Pointing Dec	11.698230	11.72405655158108	Alternating exposures requested	N	N
[deg] Pointing Roll	77.733952	77.89238611496479	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	224225984.184000	224224873.33596			
Observation start date	2005-02-08T04:58:40	2005-02-08T04:41:13			
[s] Observation end time (MET)	224265984.184000	224266626.71285			
Observation end date	2005-02-08T16:05:20	2005-02-08T16:17:06			
Read mode	TIMED	TIMED			

2.3 Aspect

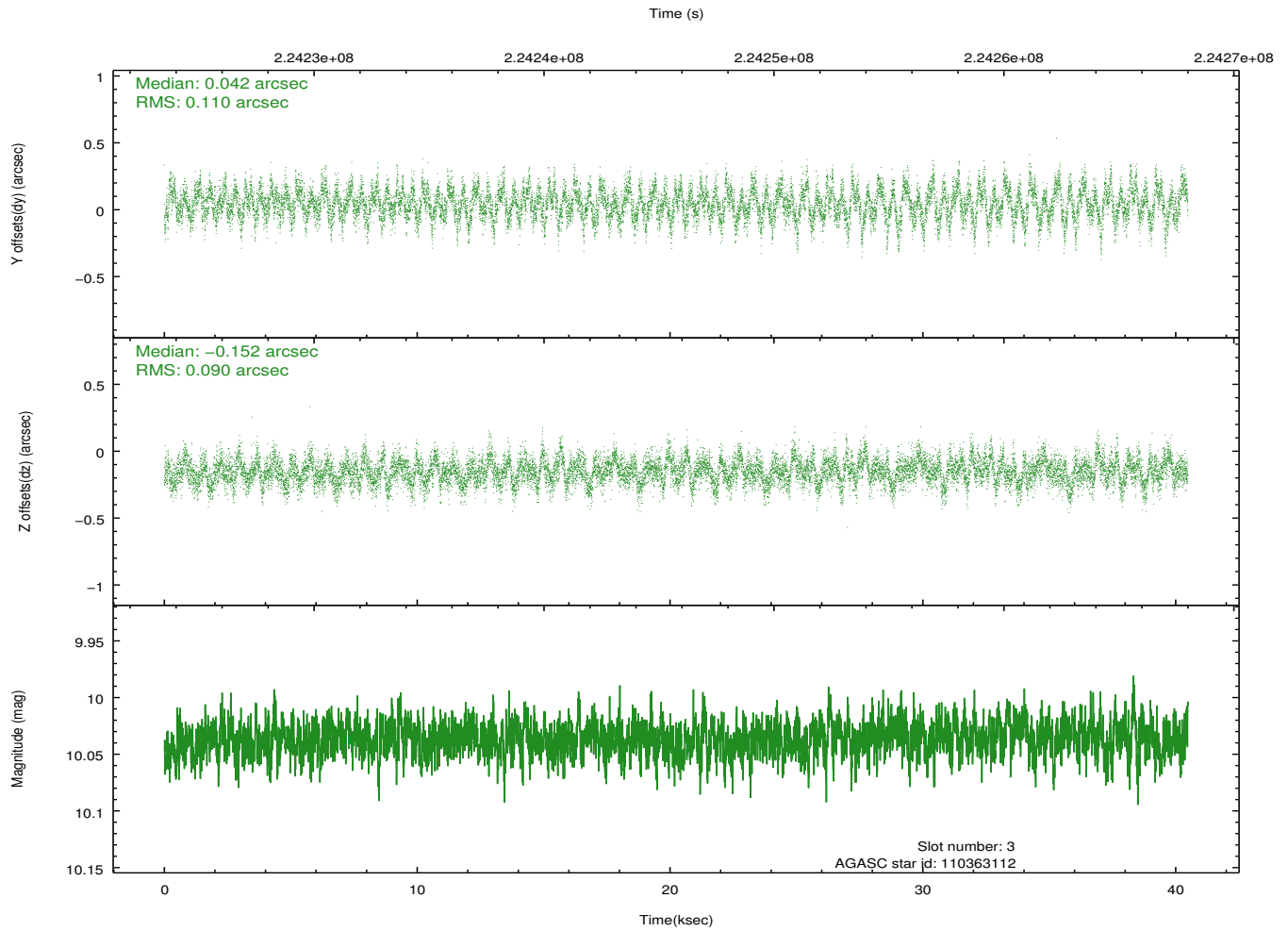
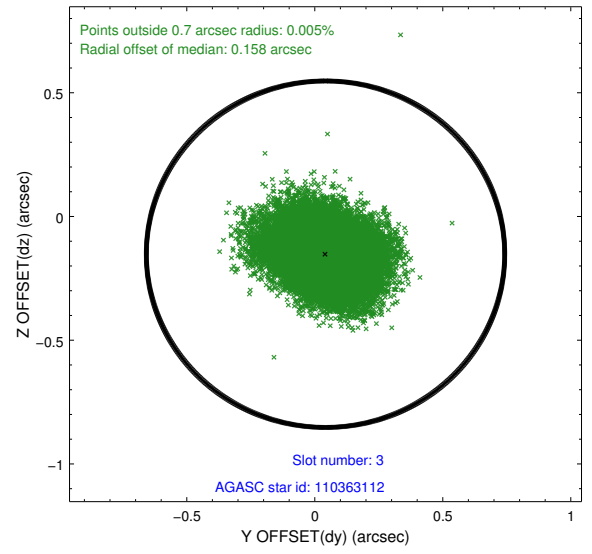
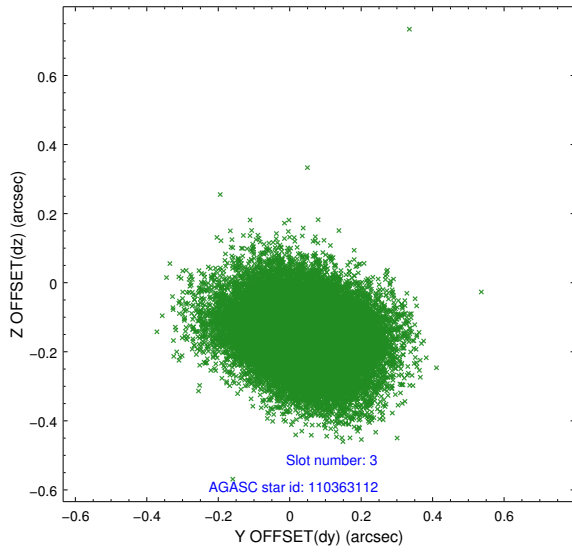


Slot Statistics

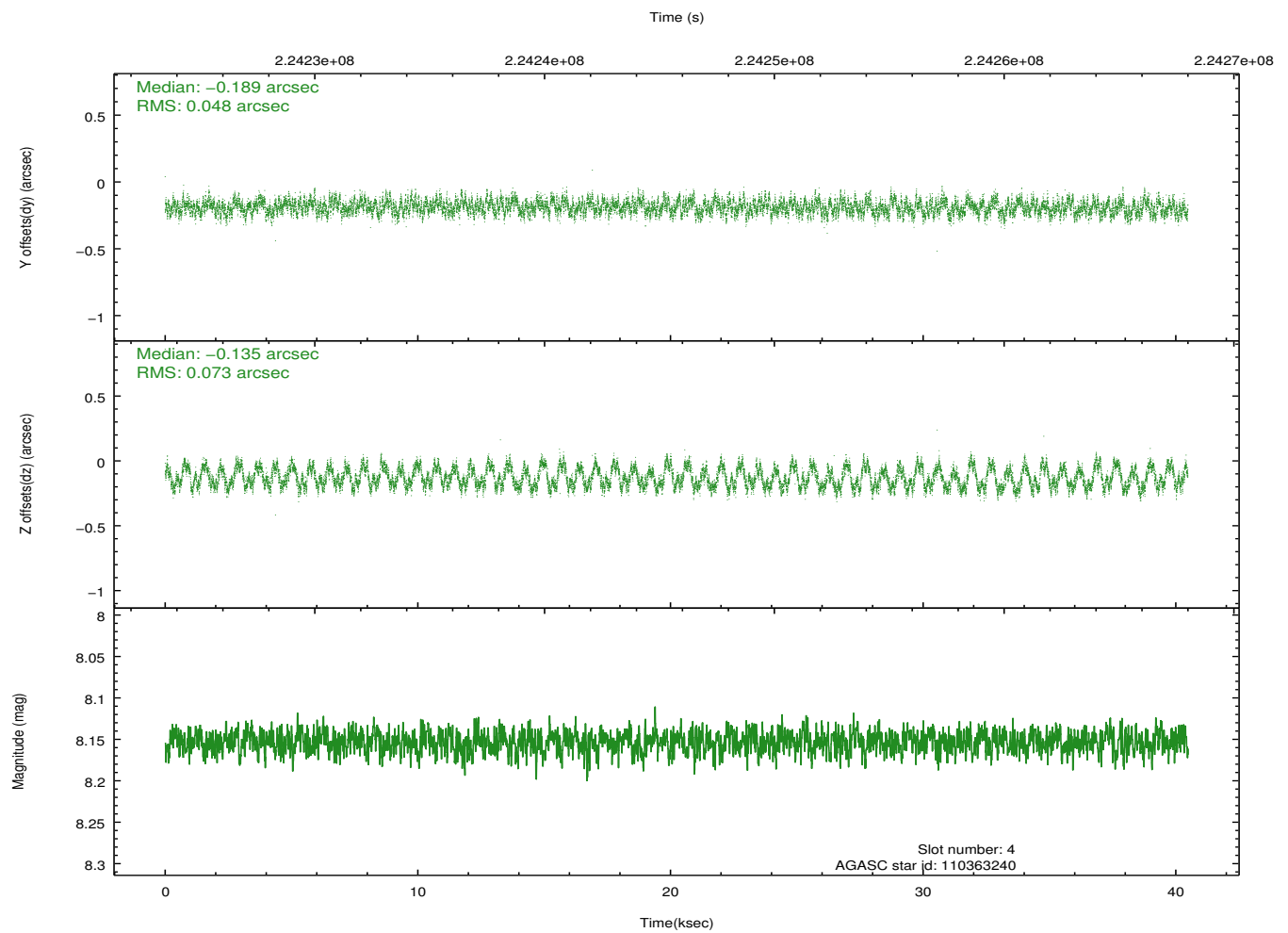
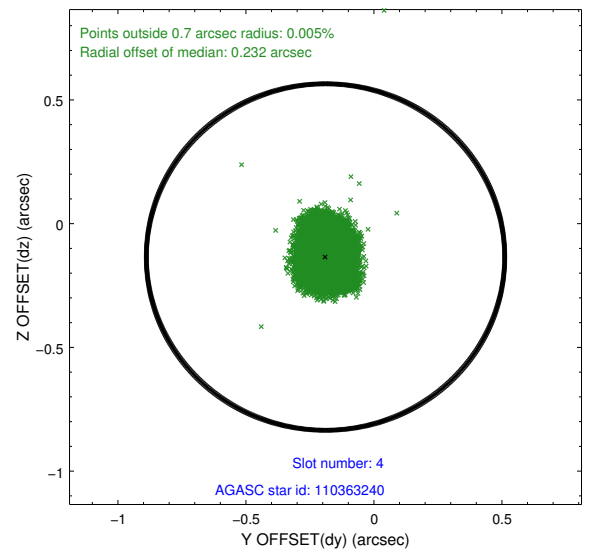
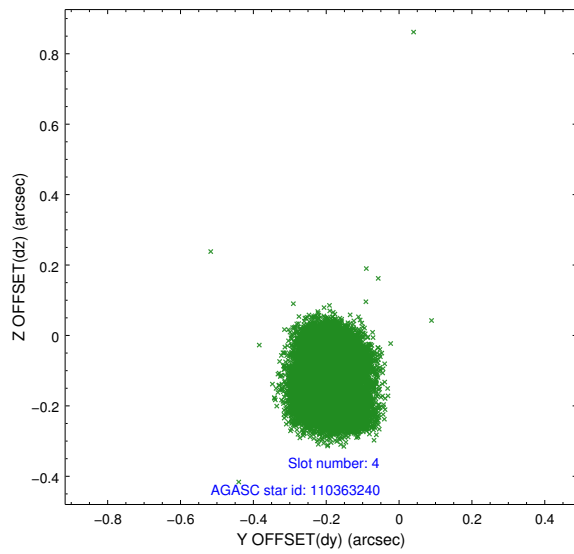
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	9873	-0.048	-0.038	0.011	0.022	0.000000	0.000000	-759.78	-1730.93
1	FID	ACIS-S-4	7.21	9874	0.092	0.033	0.006	0.013	0.000000	0.000000	2153.60	177.65
2	FID	ACIS-S-5	7.24	9874	-0.075	0.014	0.010	0.022	0.000000	0.000000	-1812.66	171.25
3	GUIDE	110363112	10.04	19732	0.042	-0.152	0.152	0.245	160.492613	11.398369	-1438.66	1543.95
4	GUIDE	110363240	8.15	19747	-0.189	-0.135	0.096	0.142	160.564767	12.418075	2203.13	2069.70
5	GUIDE	111280632	9.90	19736	0.023	0.071	0.116	0.187	161.089942	11.335611	-1212.82	-564.05
6	GUIDE	111281680	10.27	19735	0.084	0.131	0.159	0.254	161.020105	11.200959	-1739.11	-426.17
7	GUIDE	111285392	10.13	19713	0.030	0.097	0.298	0.435	161.241595	11.515570	-466.01	-948.99

2.4 Star Slots

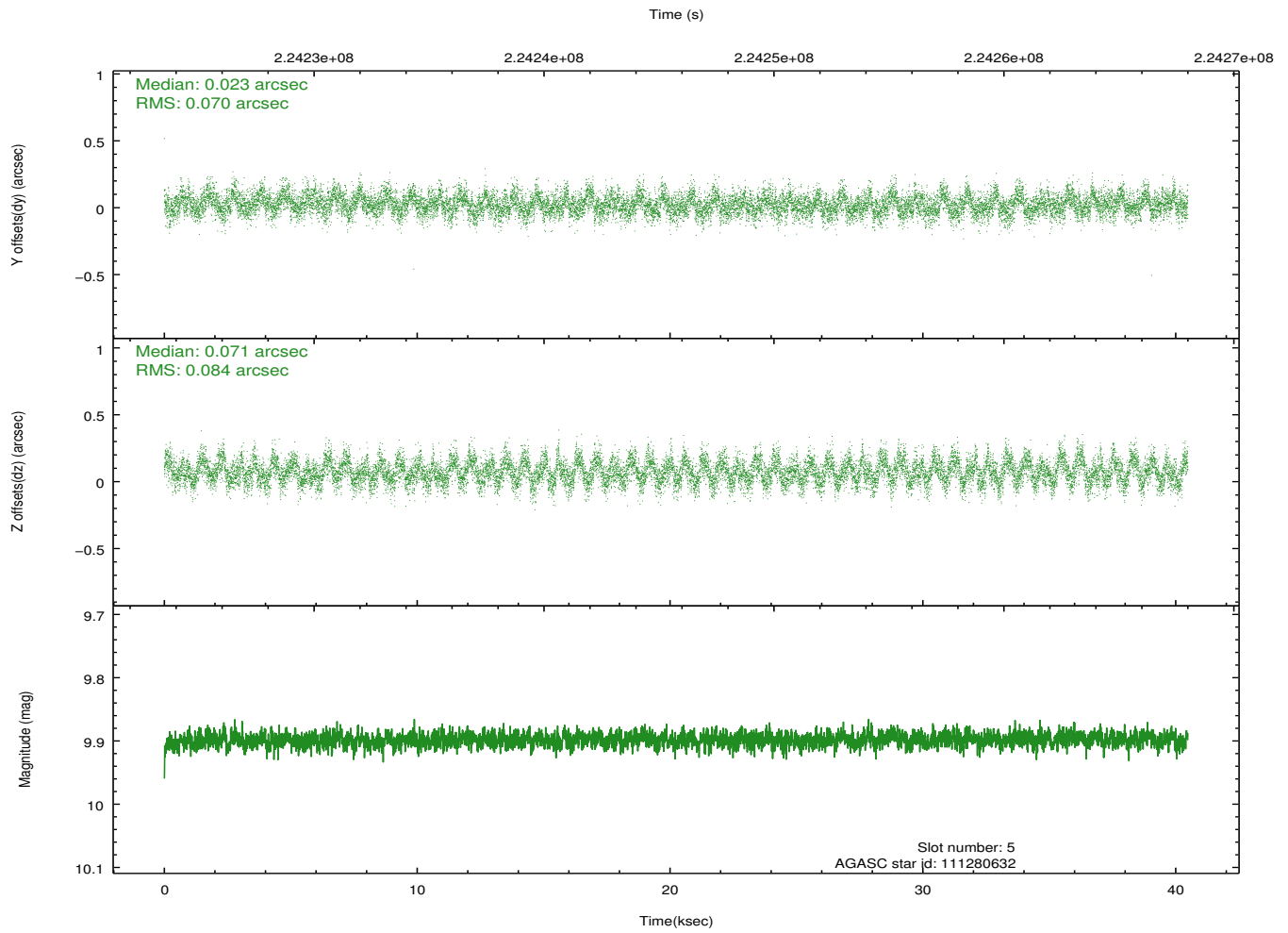
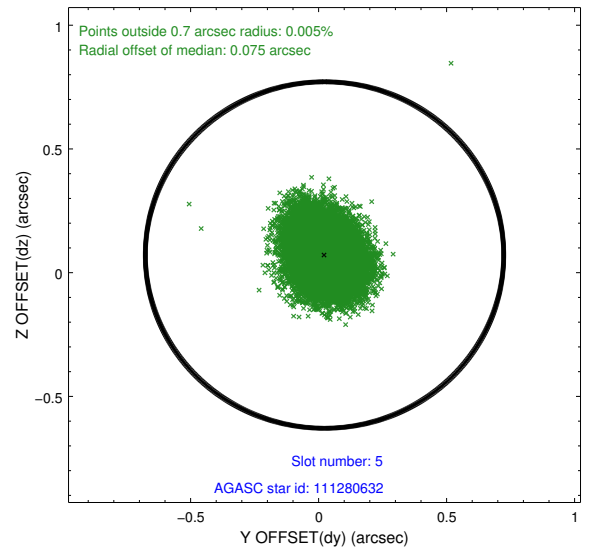
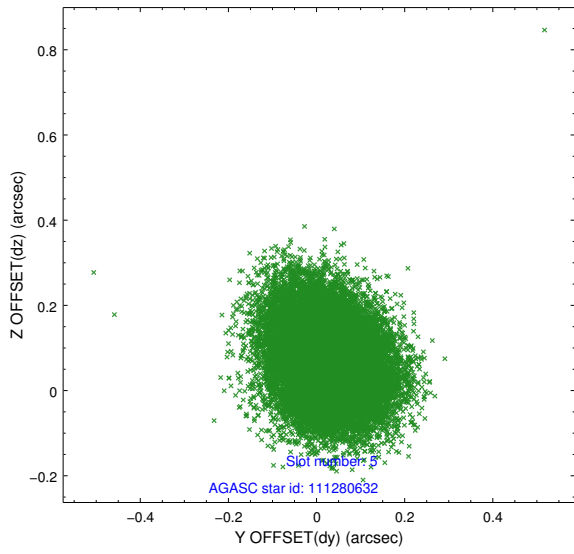
2.4.1 Slot 3



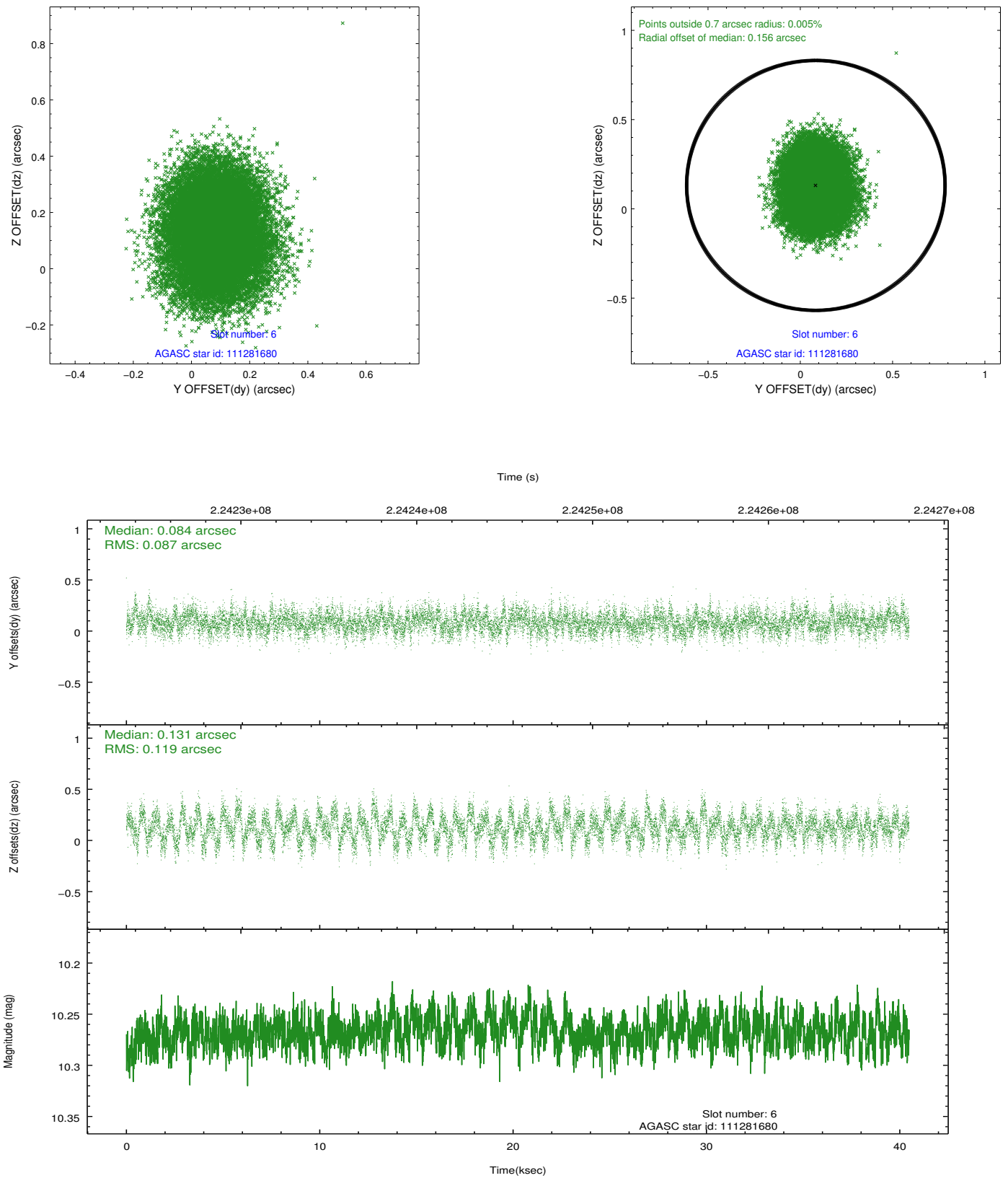
2.4.2 Slot 4



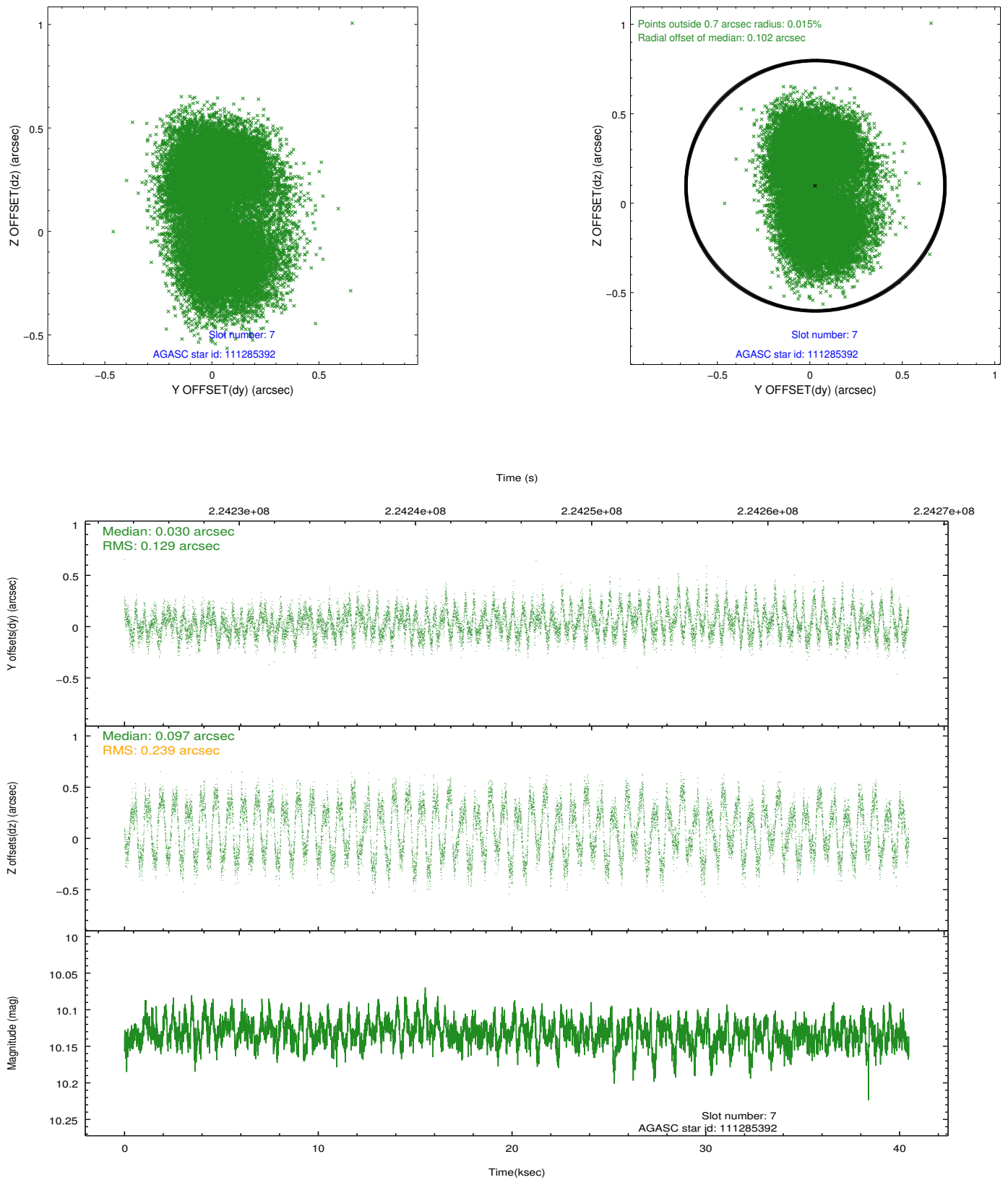
2.4.3 Slot 5



2.4.4 Slot 6

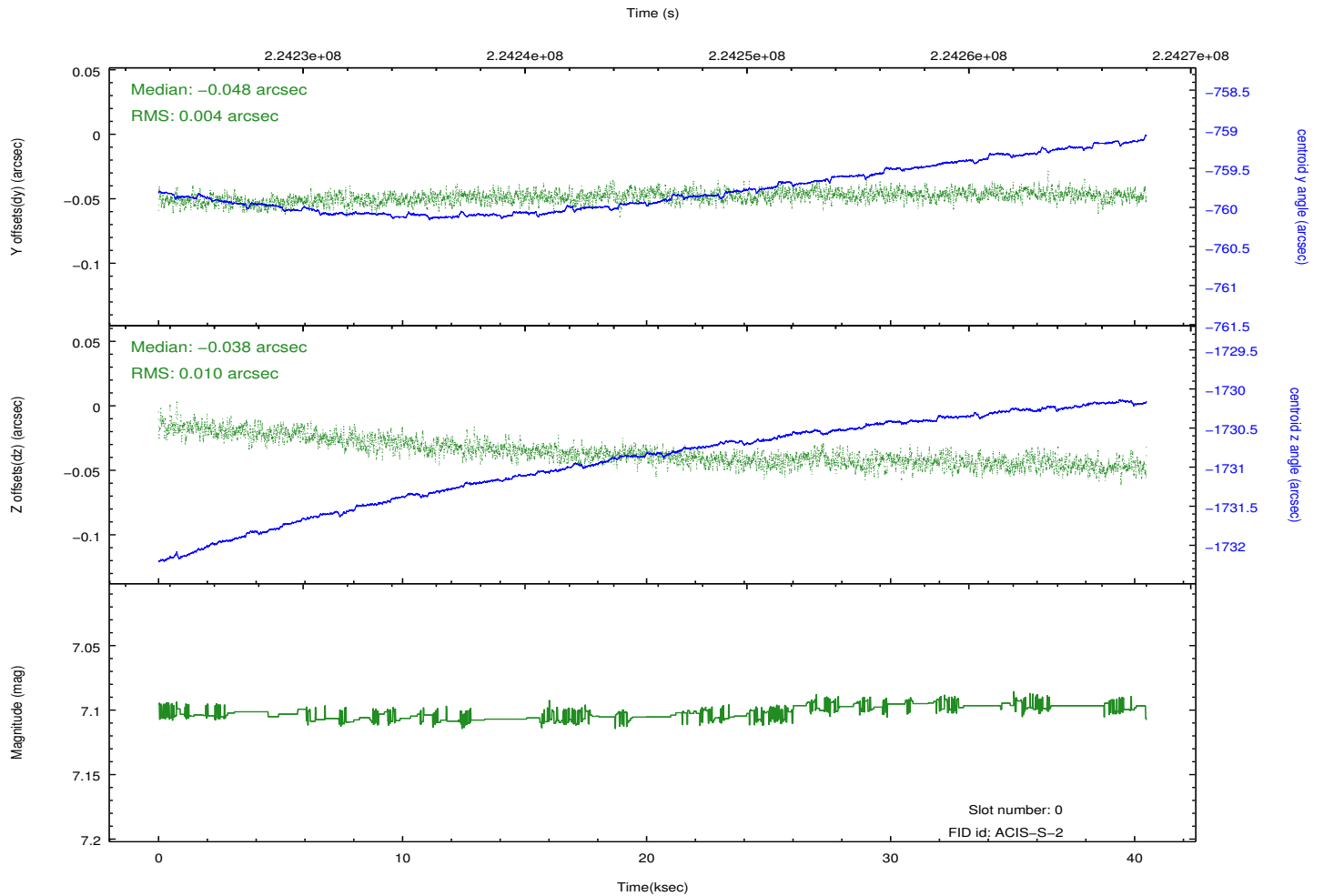
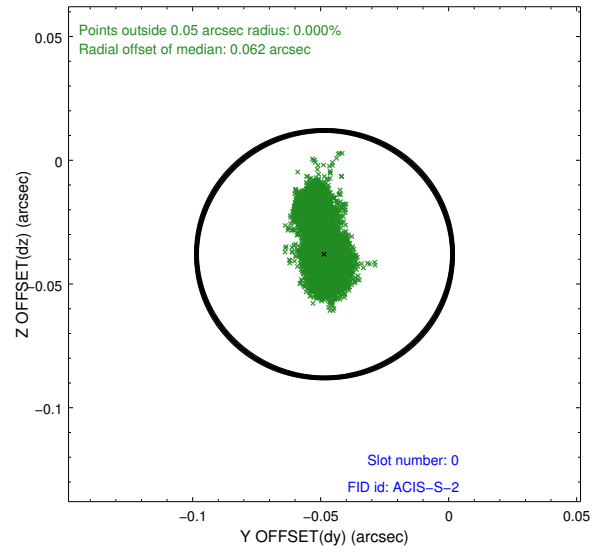
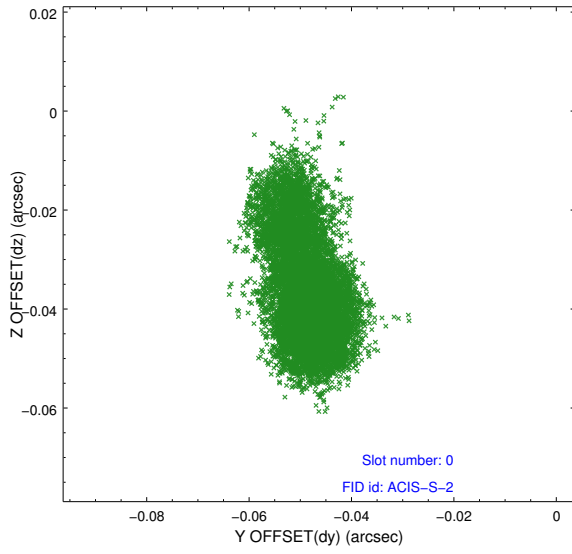


2.4.5 Slot 7

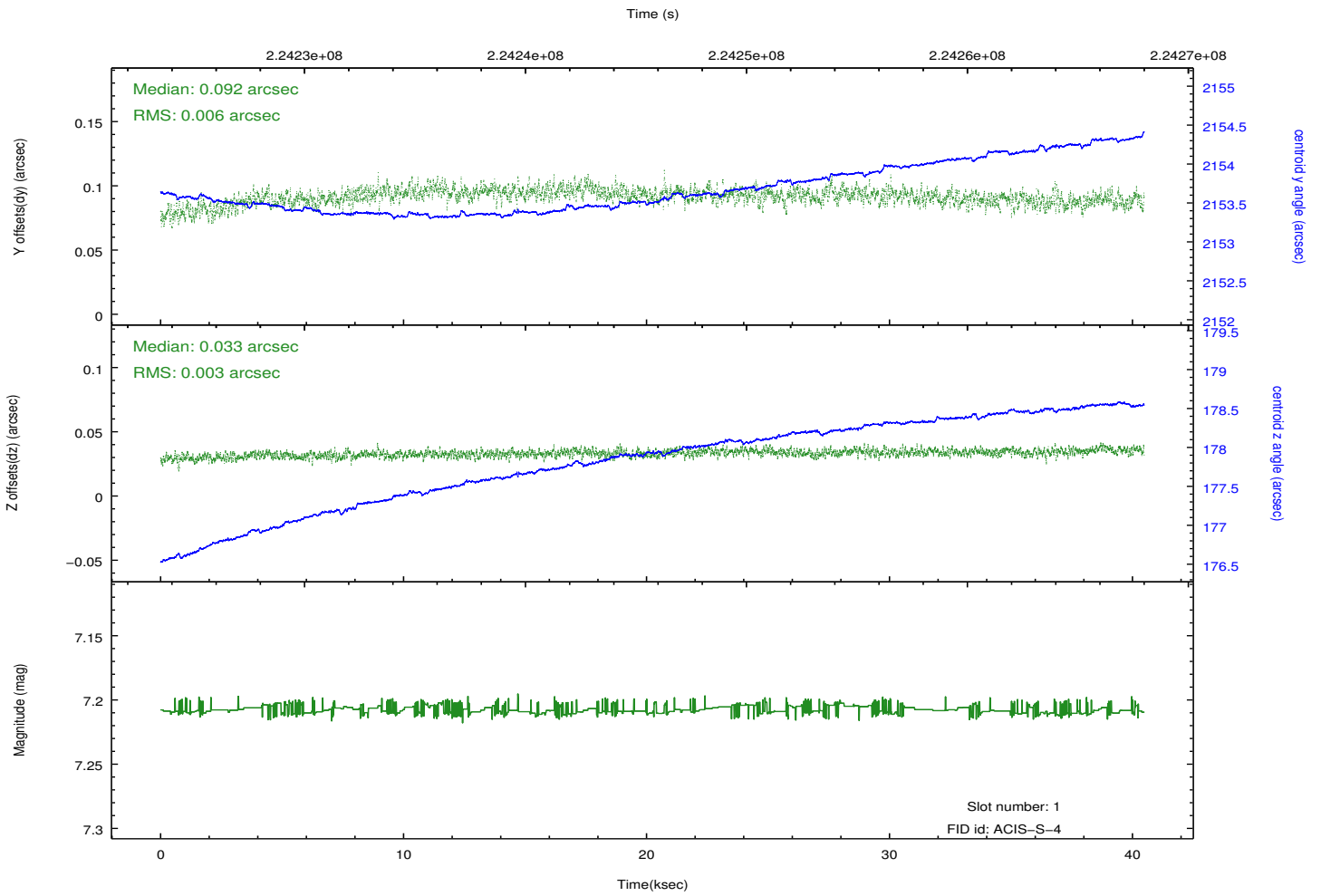
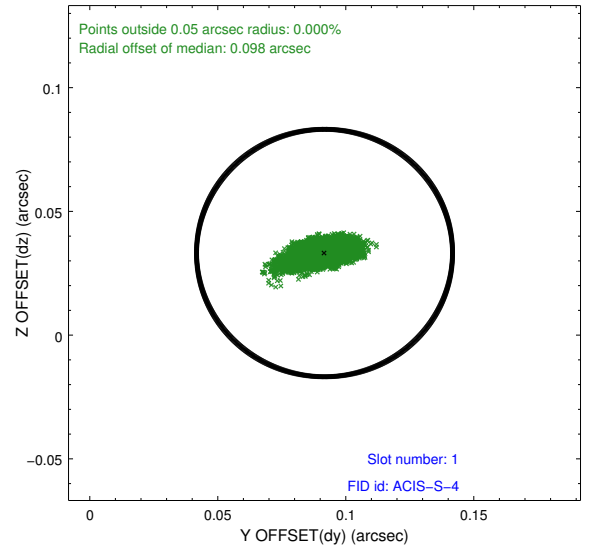
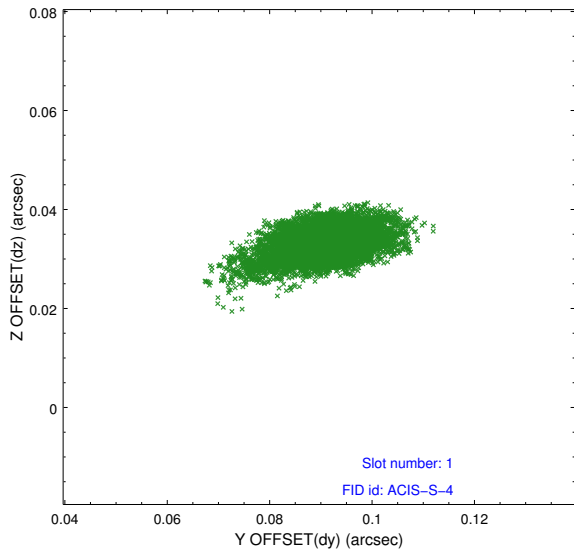


2.5 FID Slots

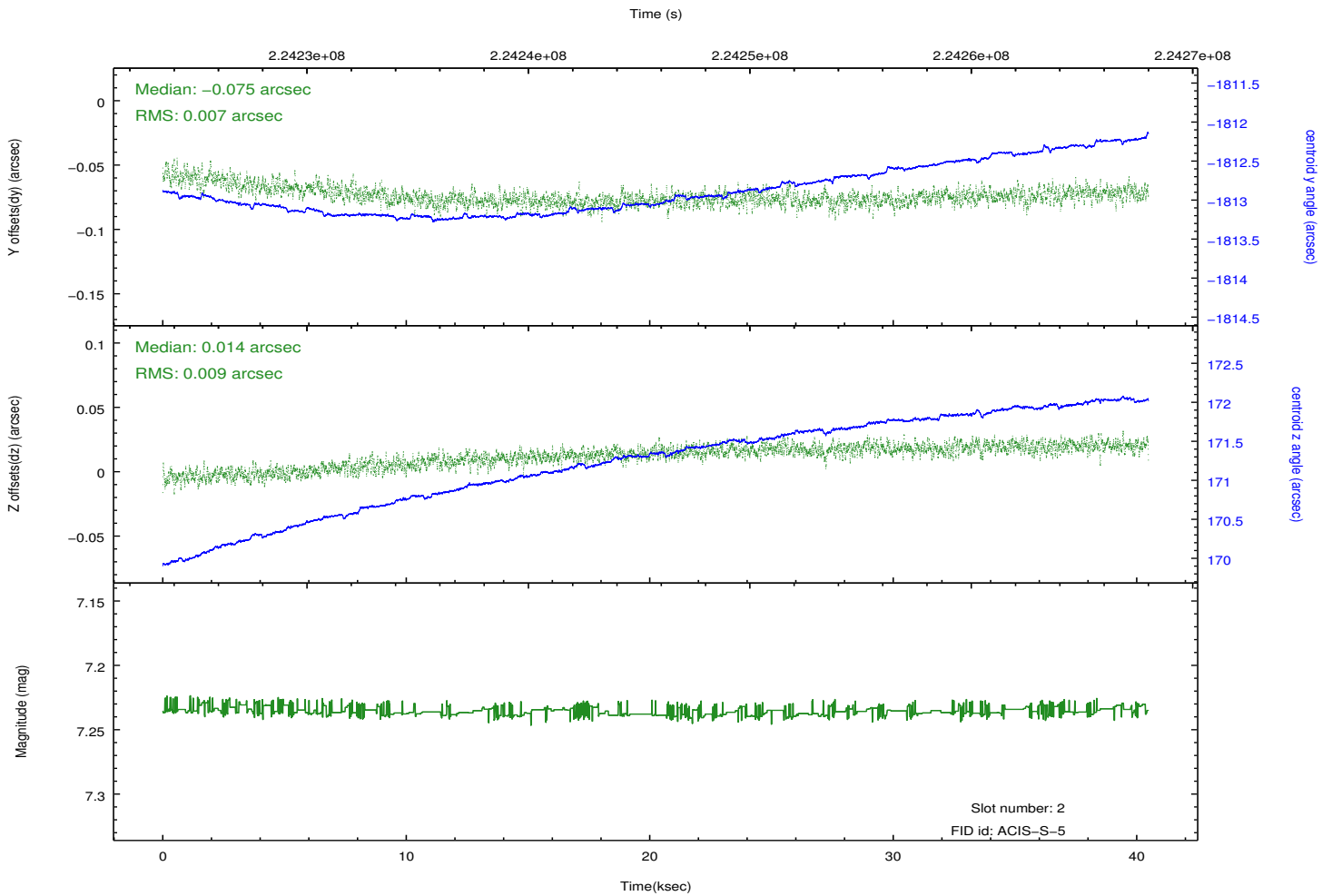
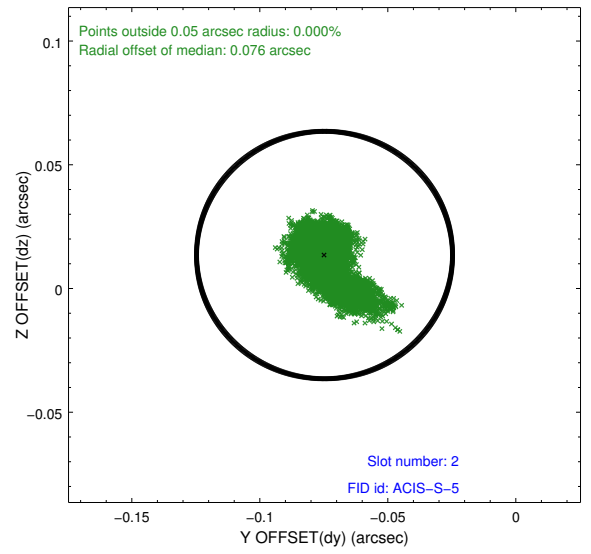
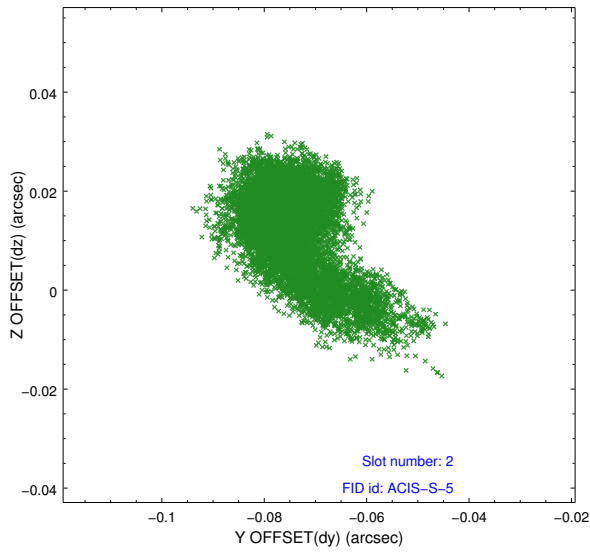
2.5.1 Slot 0



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)	2013.01.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.95839

A.2 Comments