

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10417 - L2 Version 2
Chandra X-Ray Center

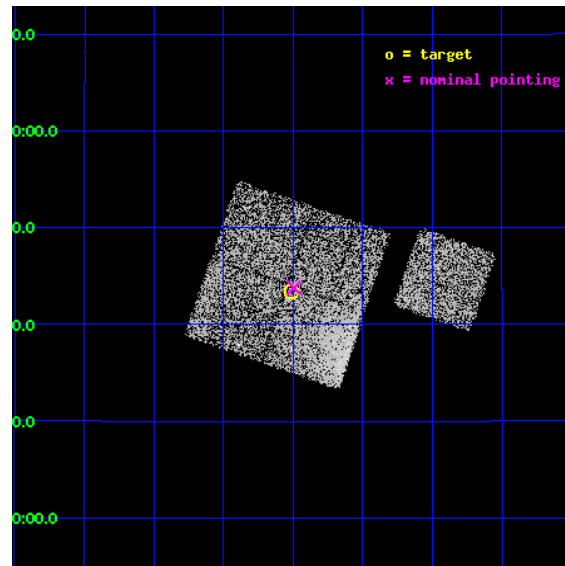
L2 Processing Date : Jun 9 2012

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

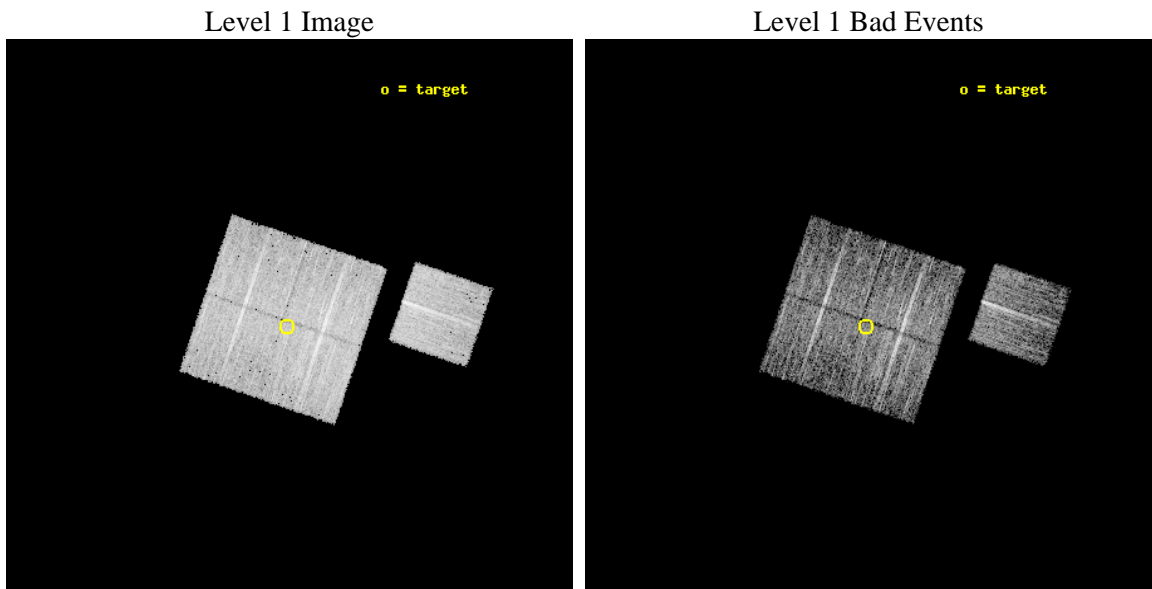
seq_num	800778	Sequence number
obs_id	10417	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A401	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	44.878475	Observer's specified target RA [deg]
dec_targ	13.723366	Observer's specified target Dec [deg]
ra_nom	44.873647596662	Nominal RA [deg]
dec_nom	13.729835174782	Nominal Dec [deg]
roll_nom	108.85982641104	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4770.9000366926	Sum of GTIs [s]
livetime	4708.5647154277	Livetime [s]
ontime0	4770.9000366926	Sum of GTIs [s]
ontime1	4770.9000366926	Sum of GTIs [s]
ontime2	4770.9000366926	Sum of GTIs [s]
ontime3	4770.9000366926	Sum of GTIs [s]
ontime6	4770.9000366926	Sum of GTIs [s]
l2events	22265	Number of level 2 events



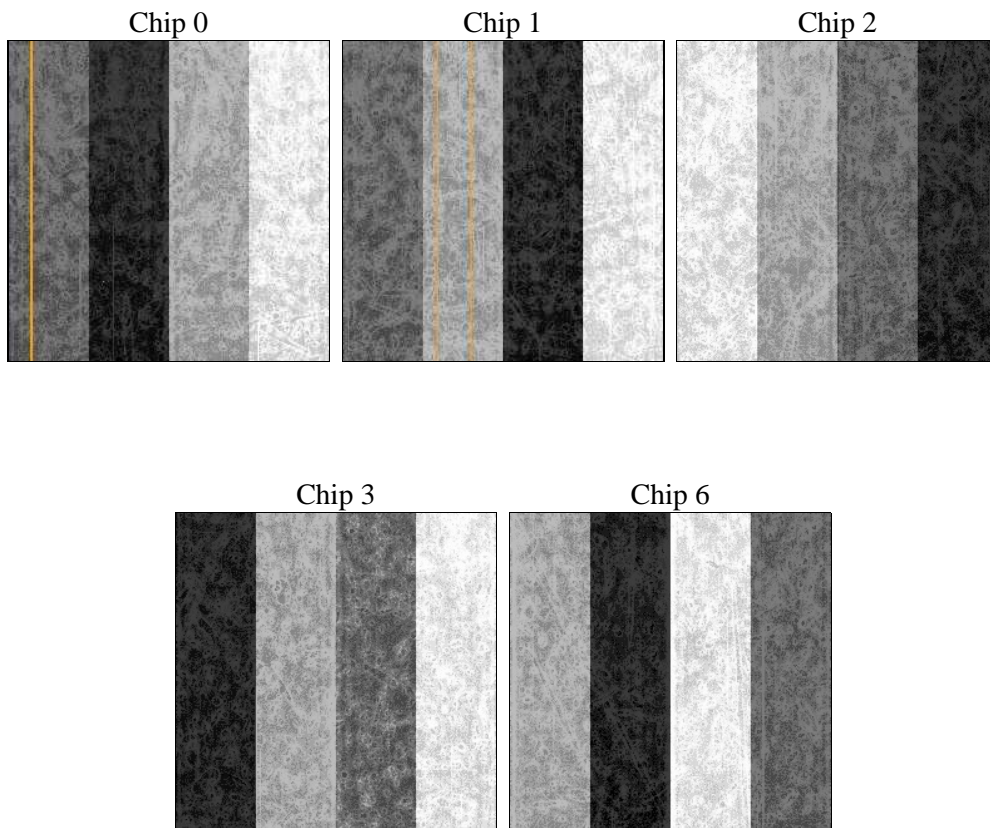
2 OBI

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	8.4.5	Processing system revision	ontime	4770.9000366926	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	4770.9000366926	Sum of GTIs [s]
date	2012-06-09T21:40:09	Date and time of file creation	ontime1	4770.9000366926	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4770.9000366926	Sum of GTIs [s]
			ontime3	4770.9000366926	Sum of GTIs [s]
			ontime6	4770.9000366926	Sum of GTIs [s]
			l1events	212327	Number of level 1 events

2.1.4 Events

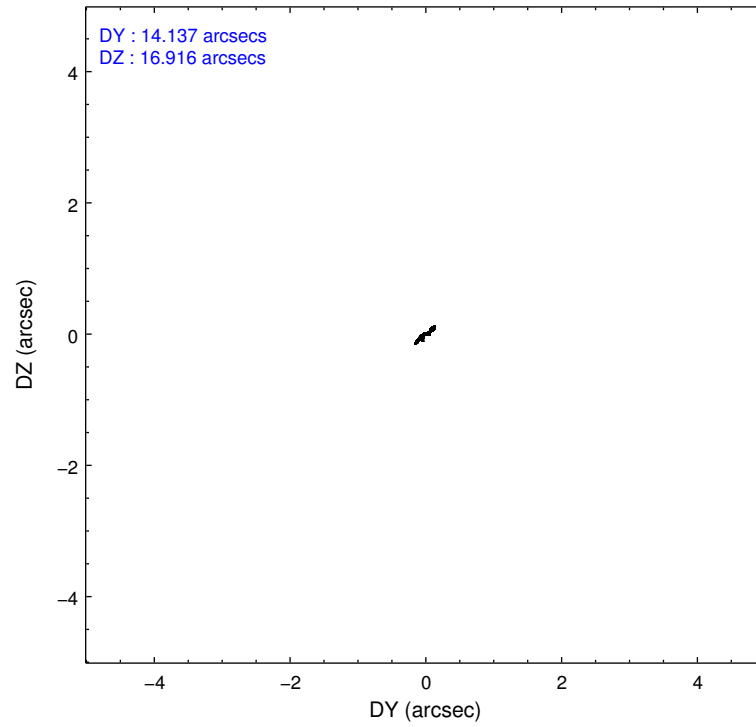
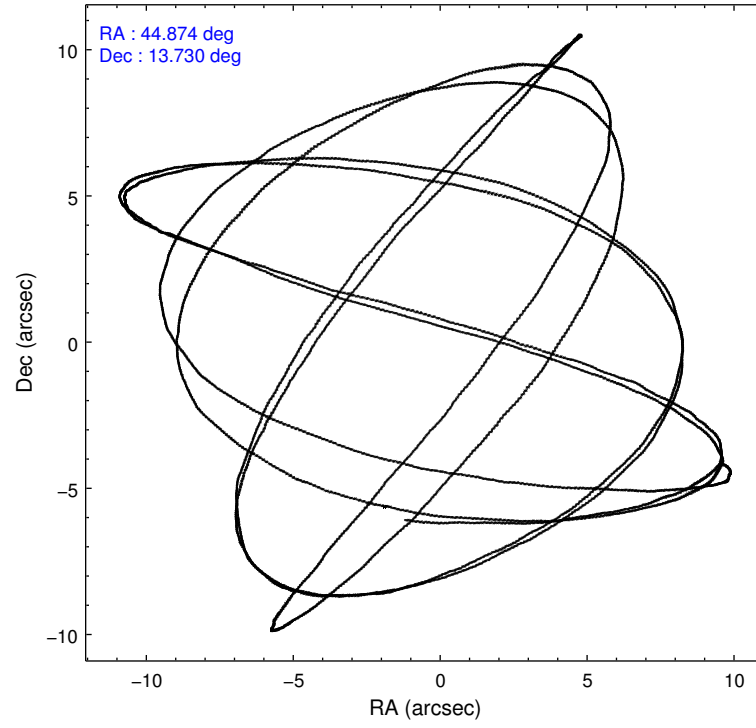
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	38959	38846	45260	46634	42628
rejected events	34508	34077	40579	39348	37811
rejected %	88%	87%	89%	84%	88%

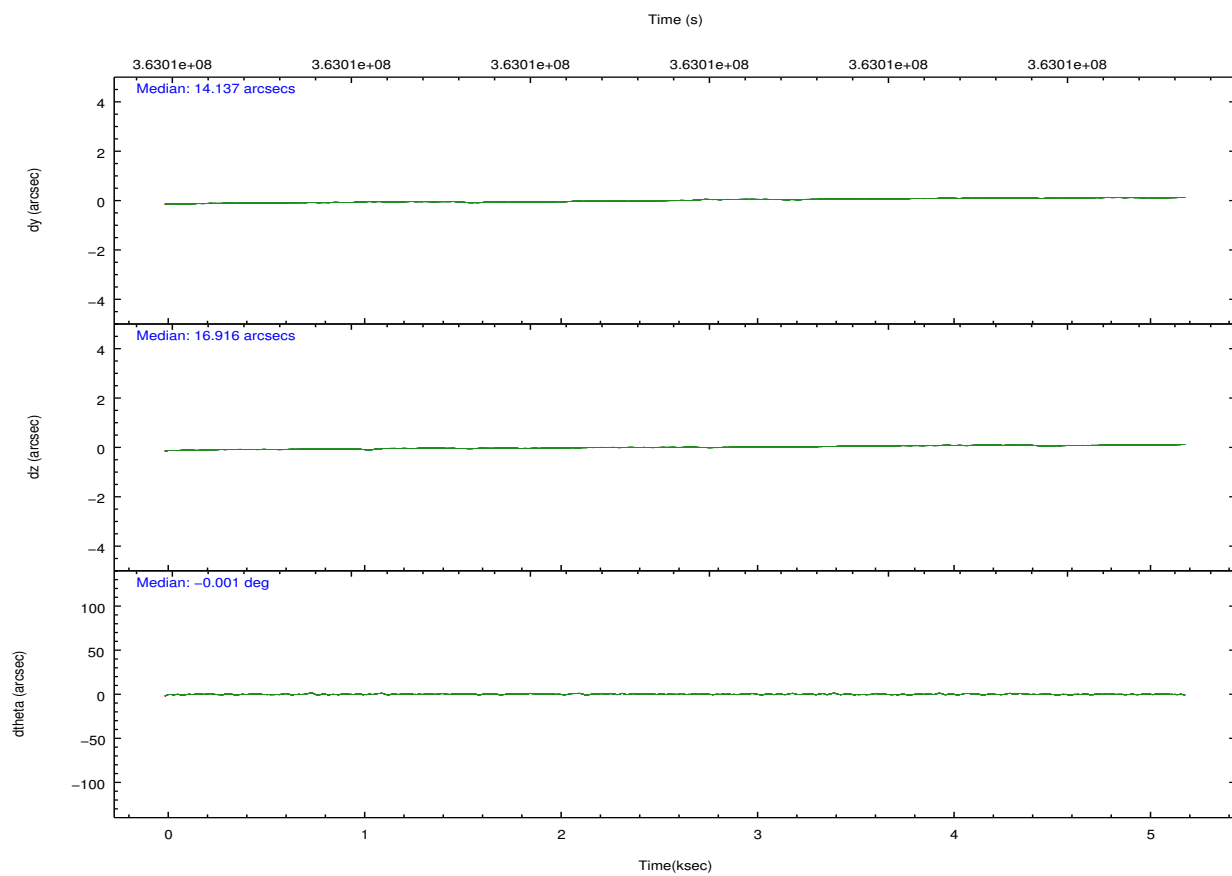
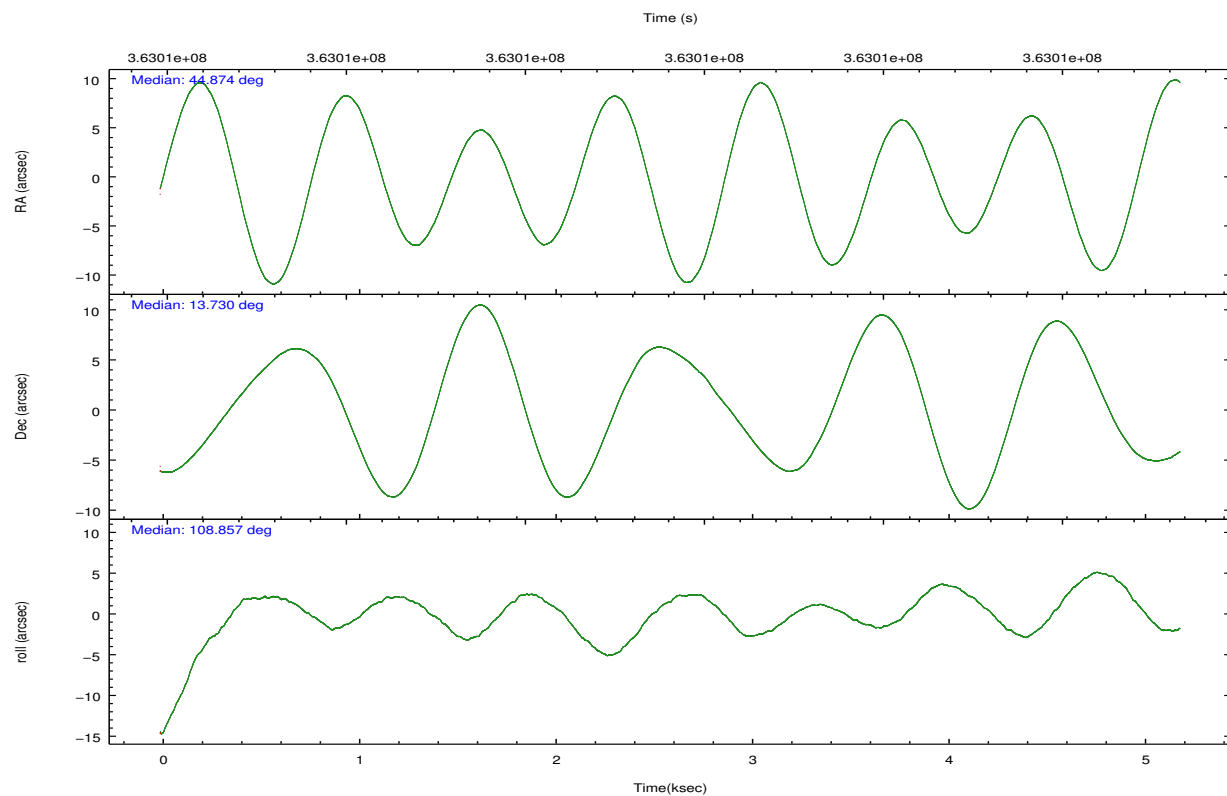
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1568	1778	1794	4005	1818
	4%	4%	3%	8%	4%
grade 1 events	23	33	27	39	19
	0%	0%	0%	0%	0%
grade 2 events	1118	1078	1098	1249	1097
	2%	2%	2%	2%	2%
grade 3 events	476	491	470	558	484
	1%	1%	1%	1%	1%
grade 4 events	457	484	484	530	485
	1%	1%	1%	1%	1%
grade 5 events	1536	1765	1434	1710	1678
	3%	4%	3%	3%	3%
grade 6 events	839	940	843	947	936
	2%	2%	1%	2%	2%
grade 7 events	32942	32277	39110	37596	36111
	84%	83%	86%	80%	84%

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	44.894965	44.87364759666173	CCD I2 on	Y	Y
[deg] Pointing Dec	13.711883	13.72983517478201	CCD I3 on	Y	Y
[deg] Pointing Roll	108.646092	108.859826411037	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)	363009392.184000	363009015.64844	CCD S5 on	N	N
Observation start date	2009-07-03T11:55:26	2009-07-03T11:50:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	363014392.184000	363014526.04871	On-chip summing requested	N	N
Observation end date	2009-07-03T13:18:46	2009-07-03T13:22:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



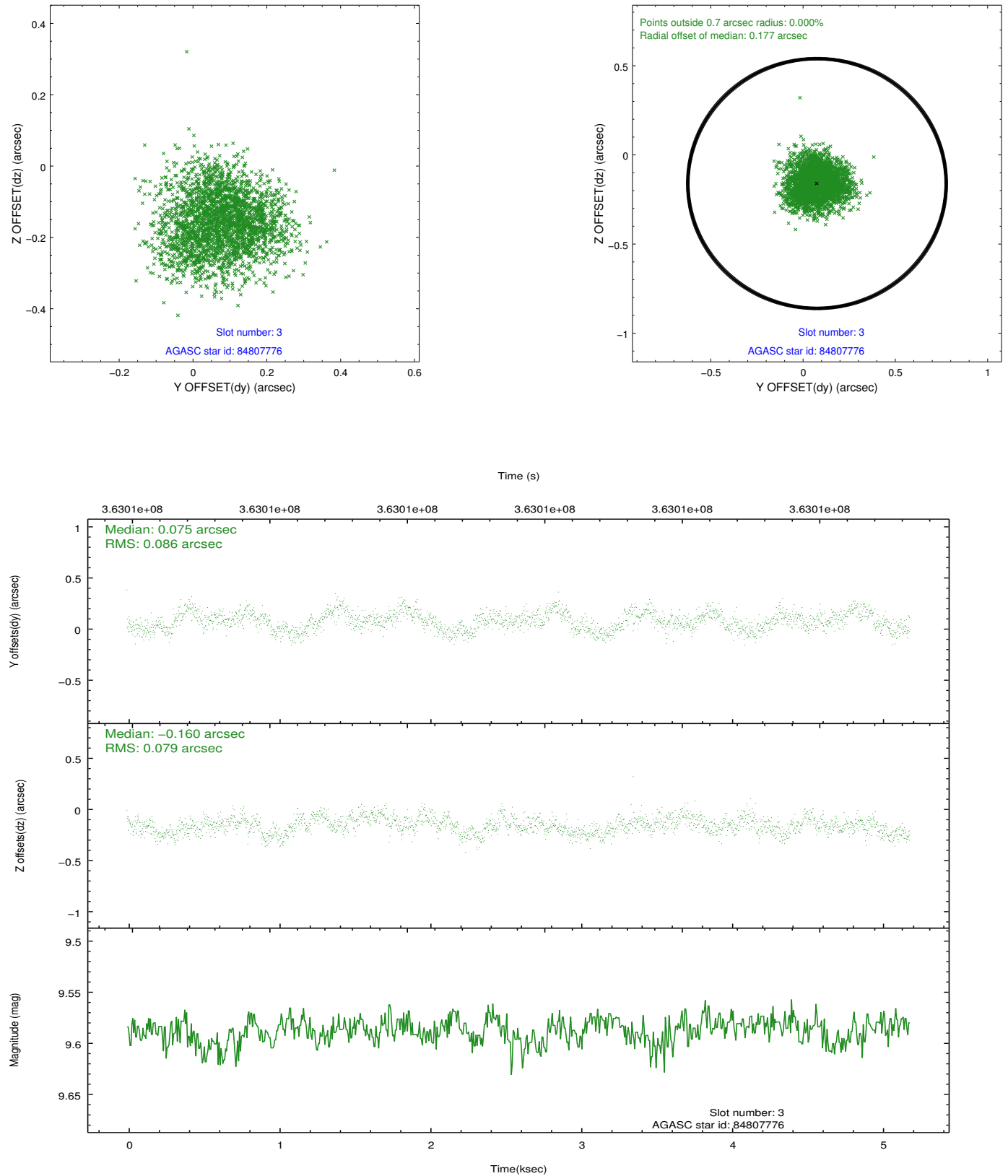


Slot Statistics

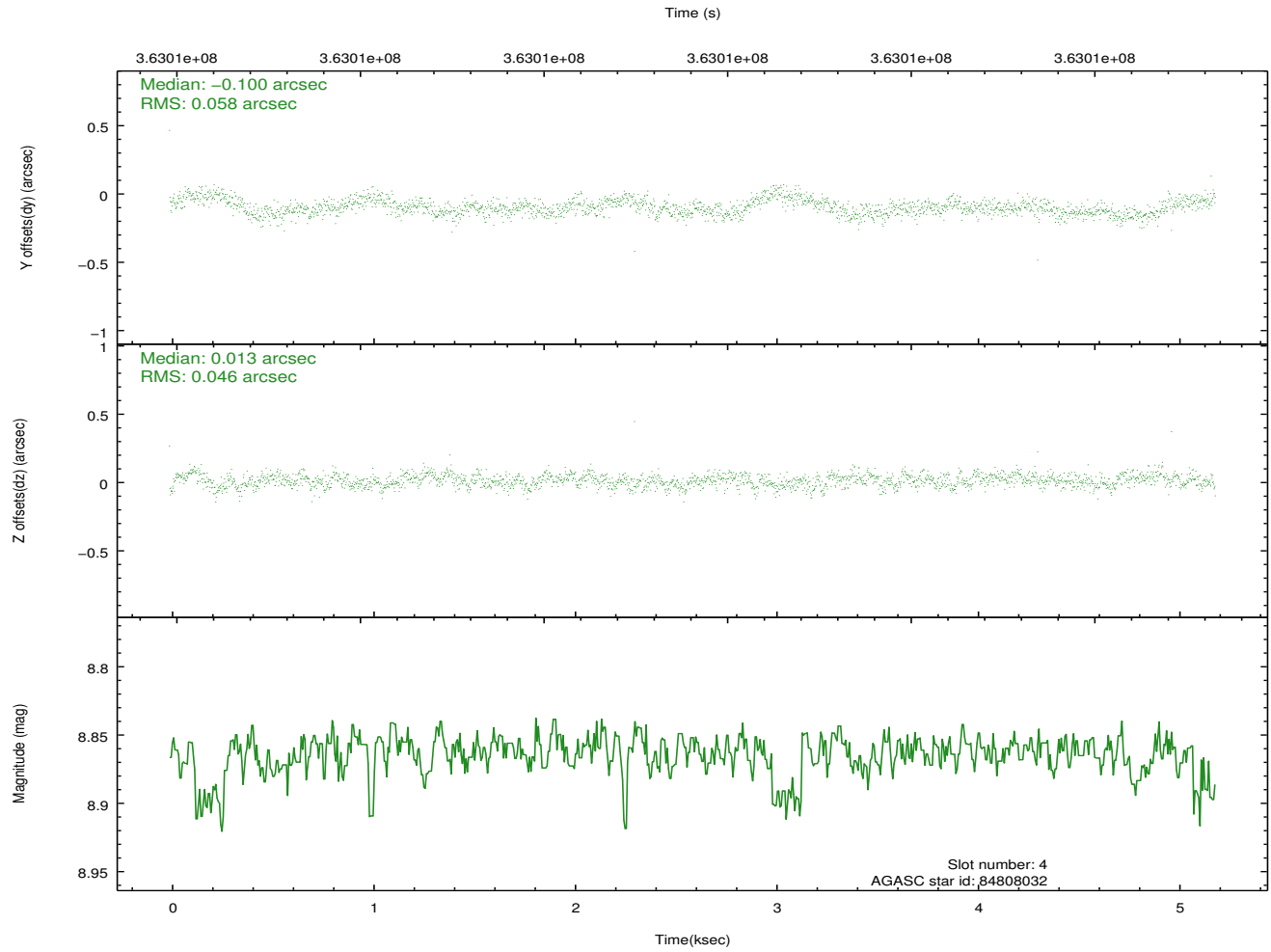
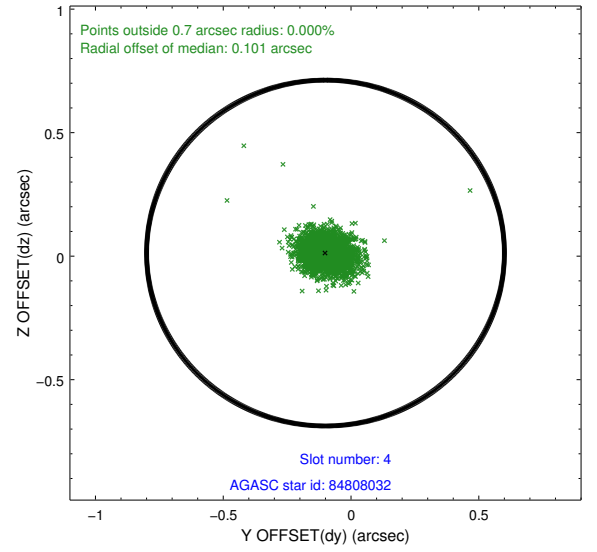
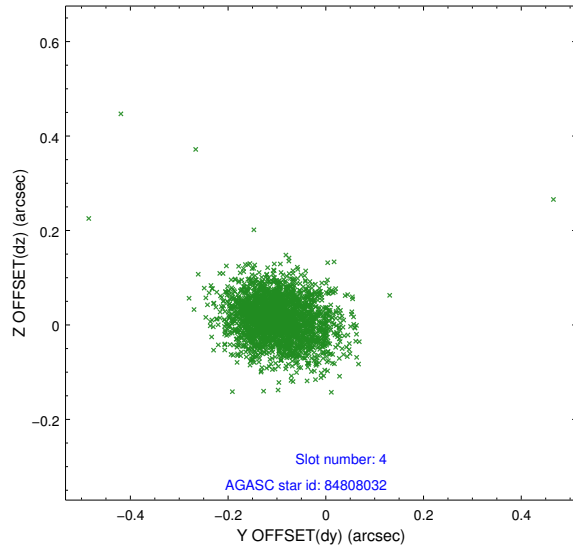
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	1267	0.077	-0.042	0.009	0.020	0.000000	0.000000	925.40	-840.63
1	FID	ACIS-I-5	7.01	1266	-0.228	0.075	0.007	0.014	0.000000	0.000000	-1822.33	1056.44
2	FID	ACIS-I-6	7.01	1267	0.059	0.037	0.009	0.015	0.000000	0.000000	389.71	1702.18
3	GUIDE	84807776	9.59	2532	0.075	-0.160	0.125	0.193	44.754496	13.025220	-2184.33	1257.17
4	GUIDE	84808032	8.86	2529	-0.100	0.013	0.074	0.125	44.912435	14.042740	1108.58	-437.46
5	GUIDE	84808960	9.38	2531	-0.246	-0.182	0.096	0.156	44.448867	14.070045	1721.97	1063.60
6	GUIDE	84808984	8.98	2466	0.126	0.200	0.091	0.140	45.613229	13.454289	-1678.06	-2086.78
7	GUIDE	84810352	9.48	2527	0.150	0.132	0.108	0.176	45.484688	13.239355	-2270.70	-1416.13

2.4 Star Slots

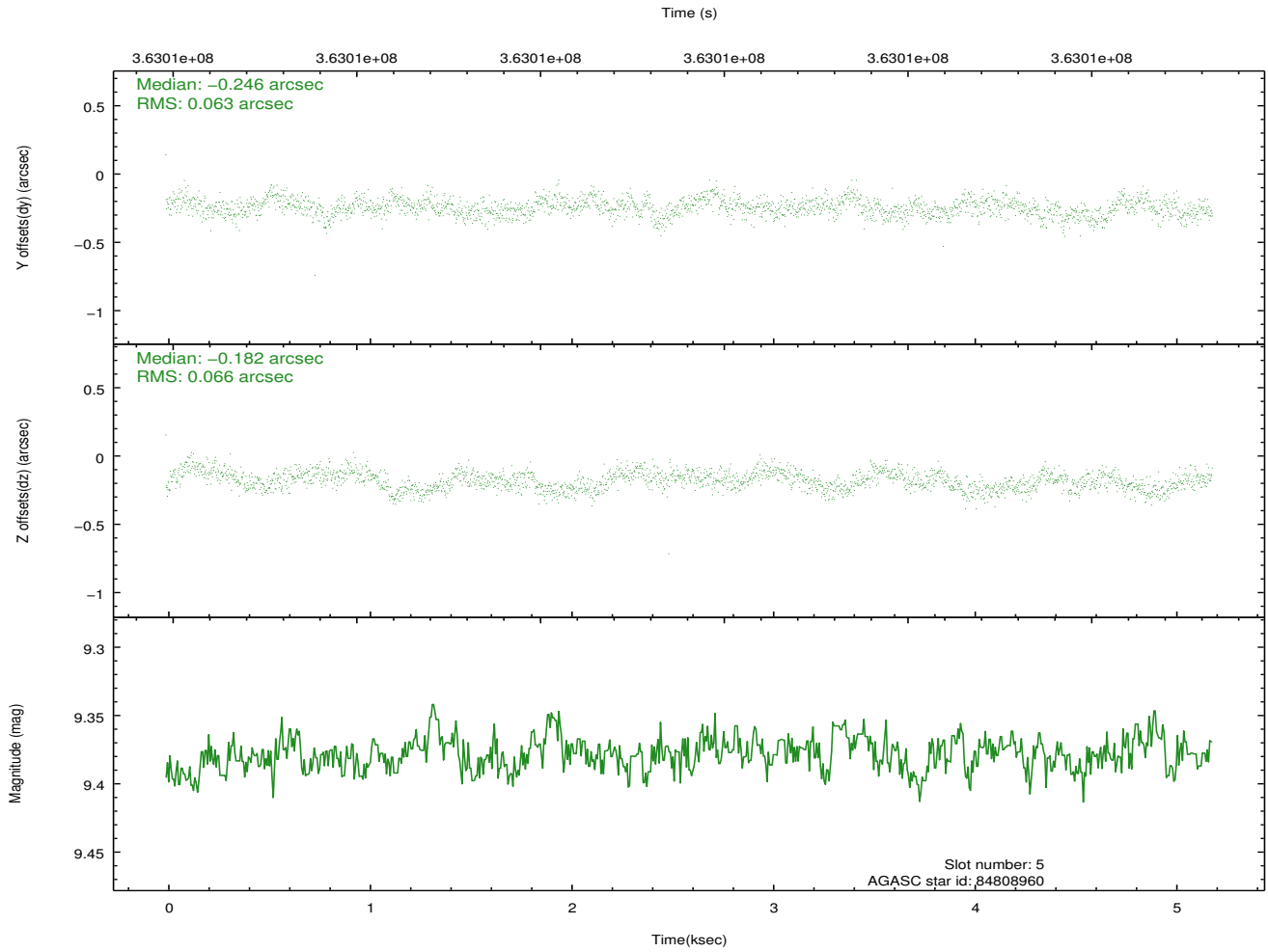
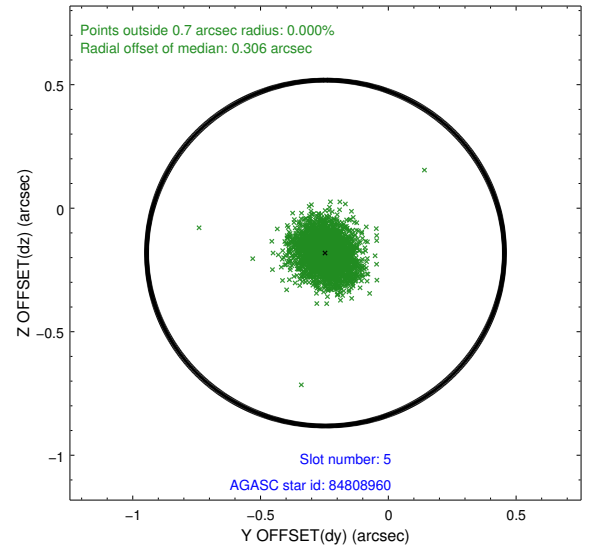
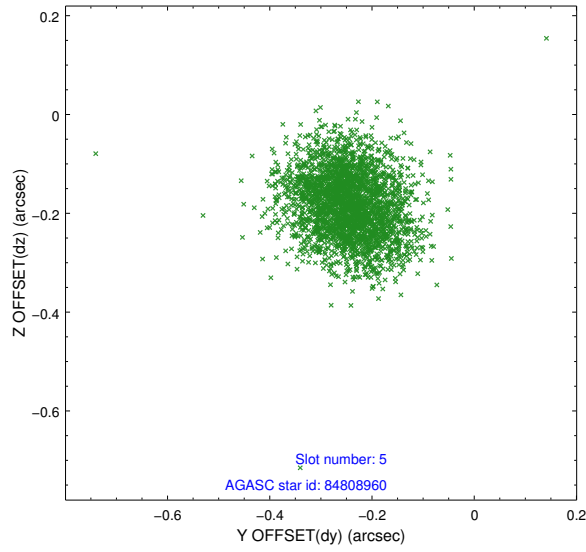
2.4.1 Slot 3



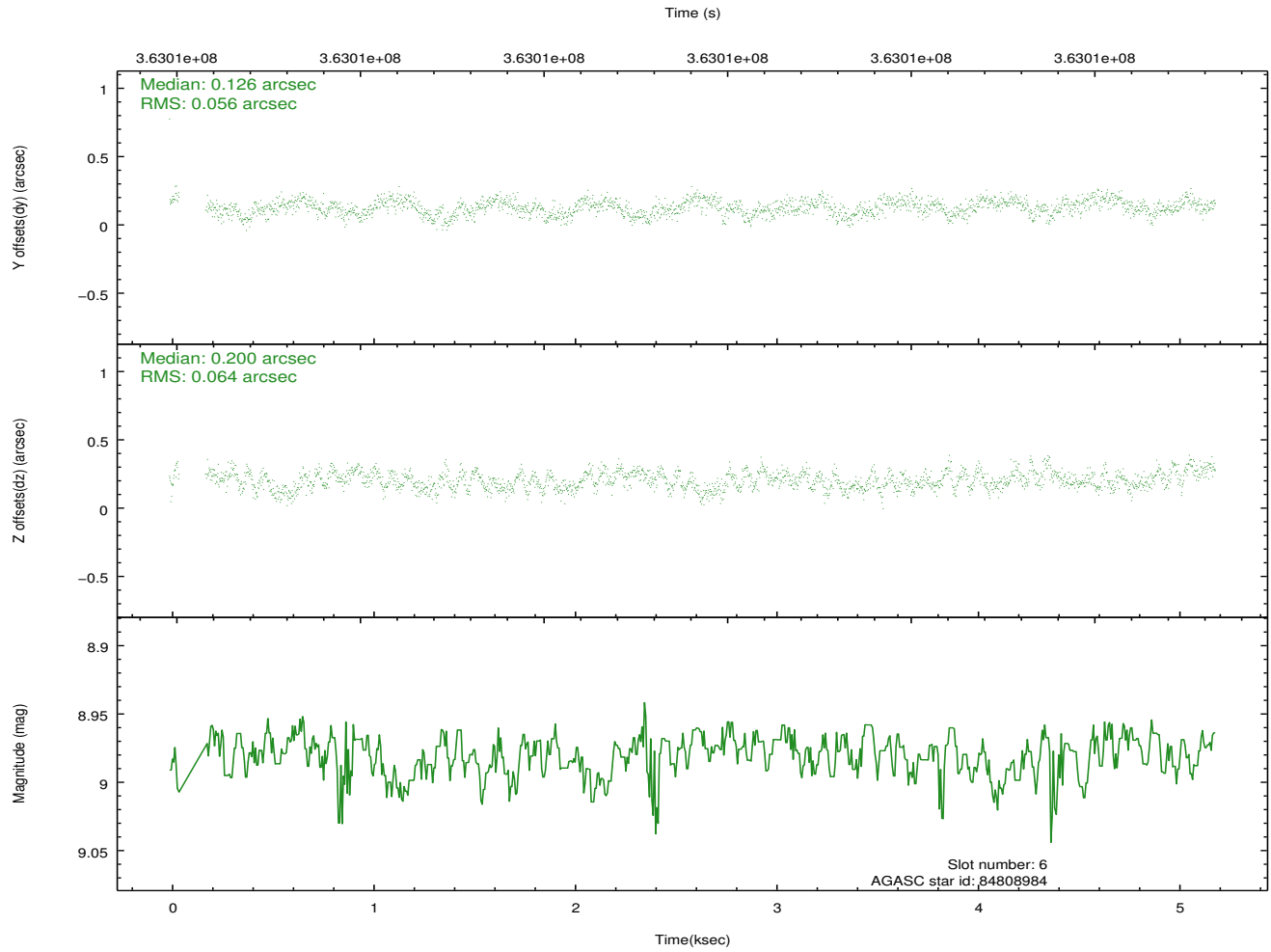
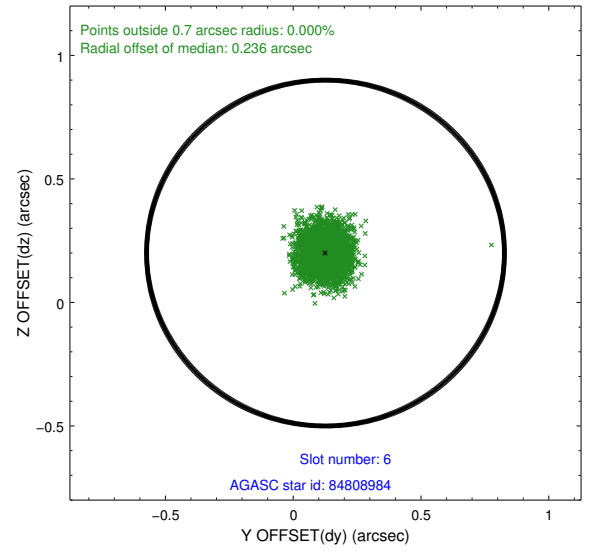
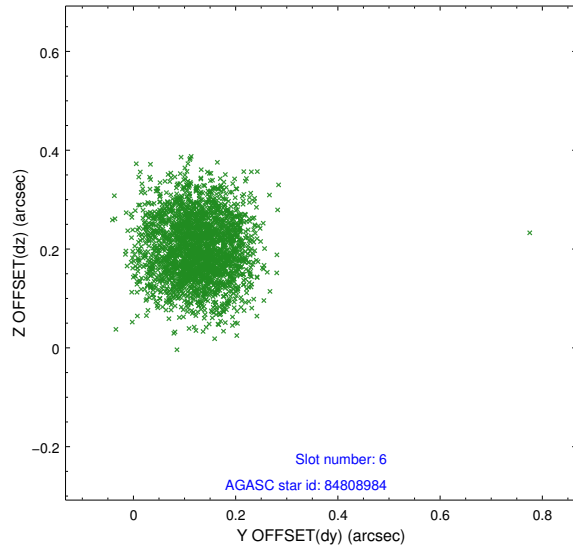
2.4.2 Slot 4



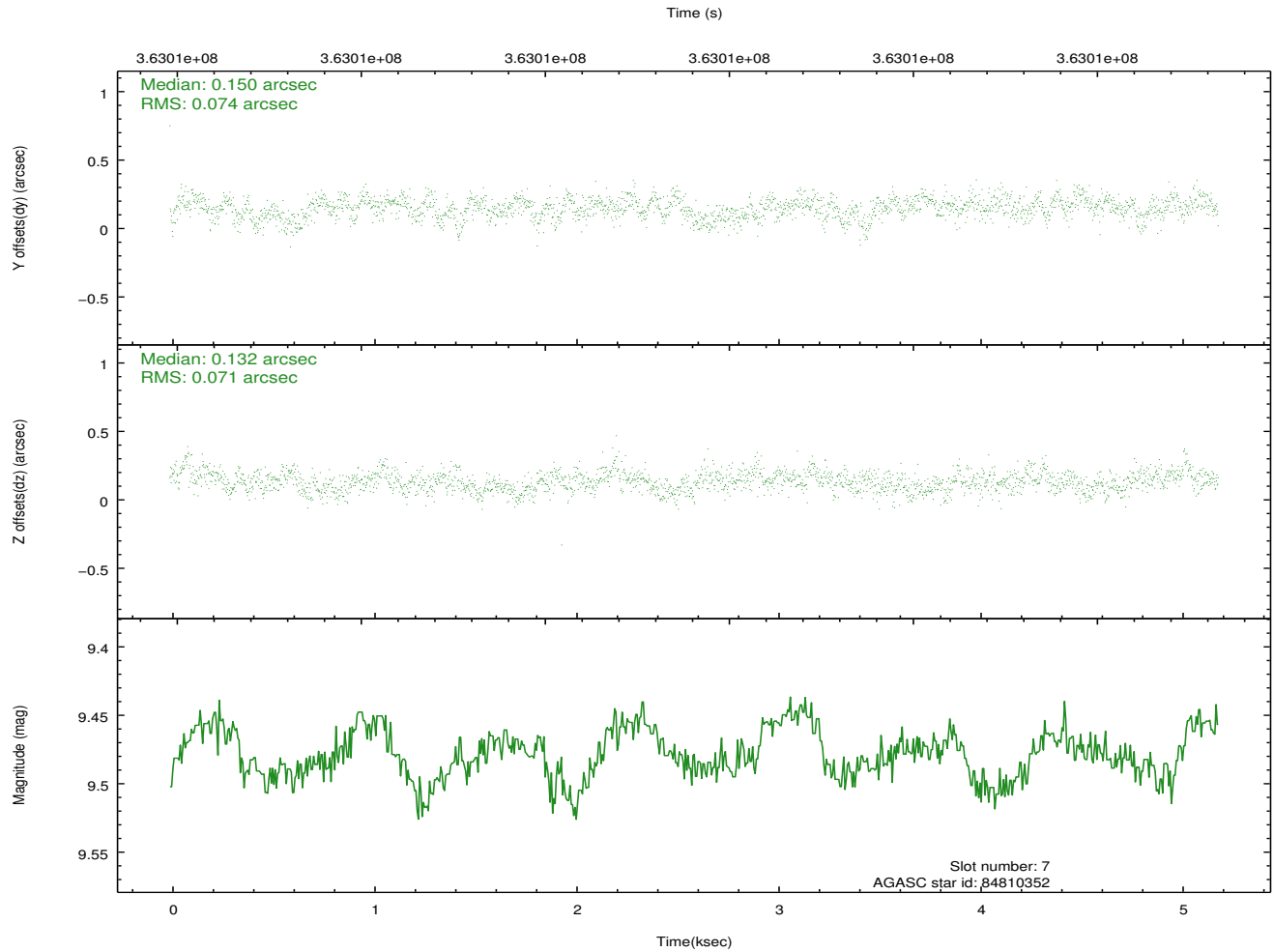
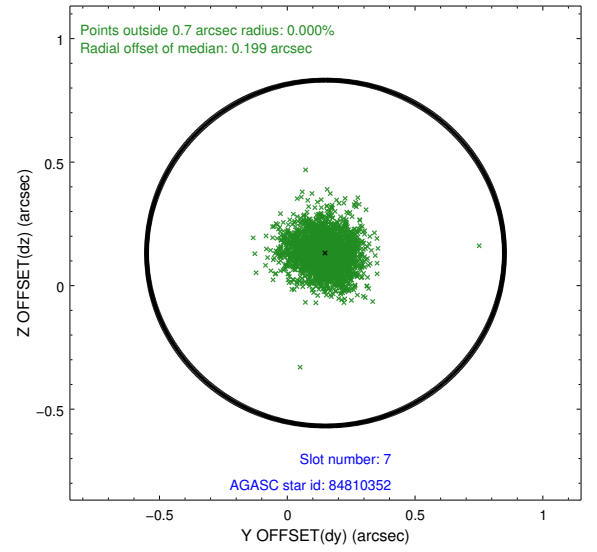
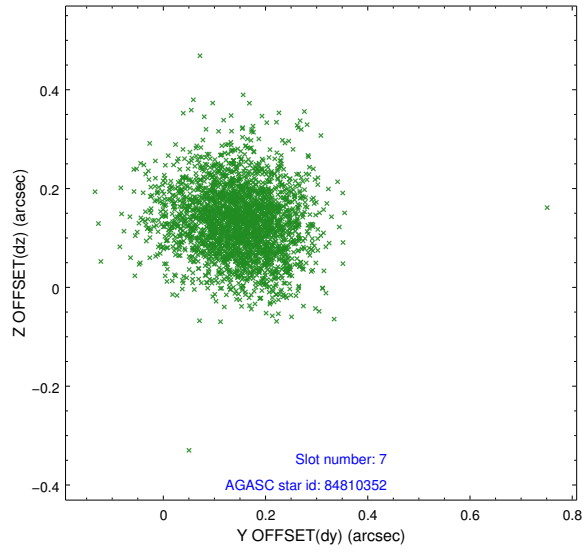
2.4.3 Slot 5



2.4.4 Slot 6

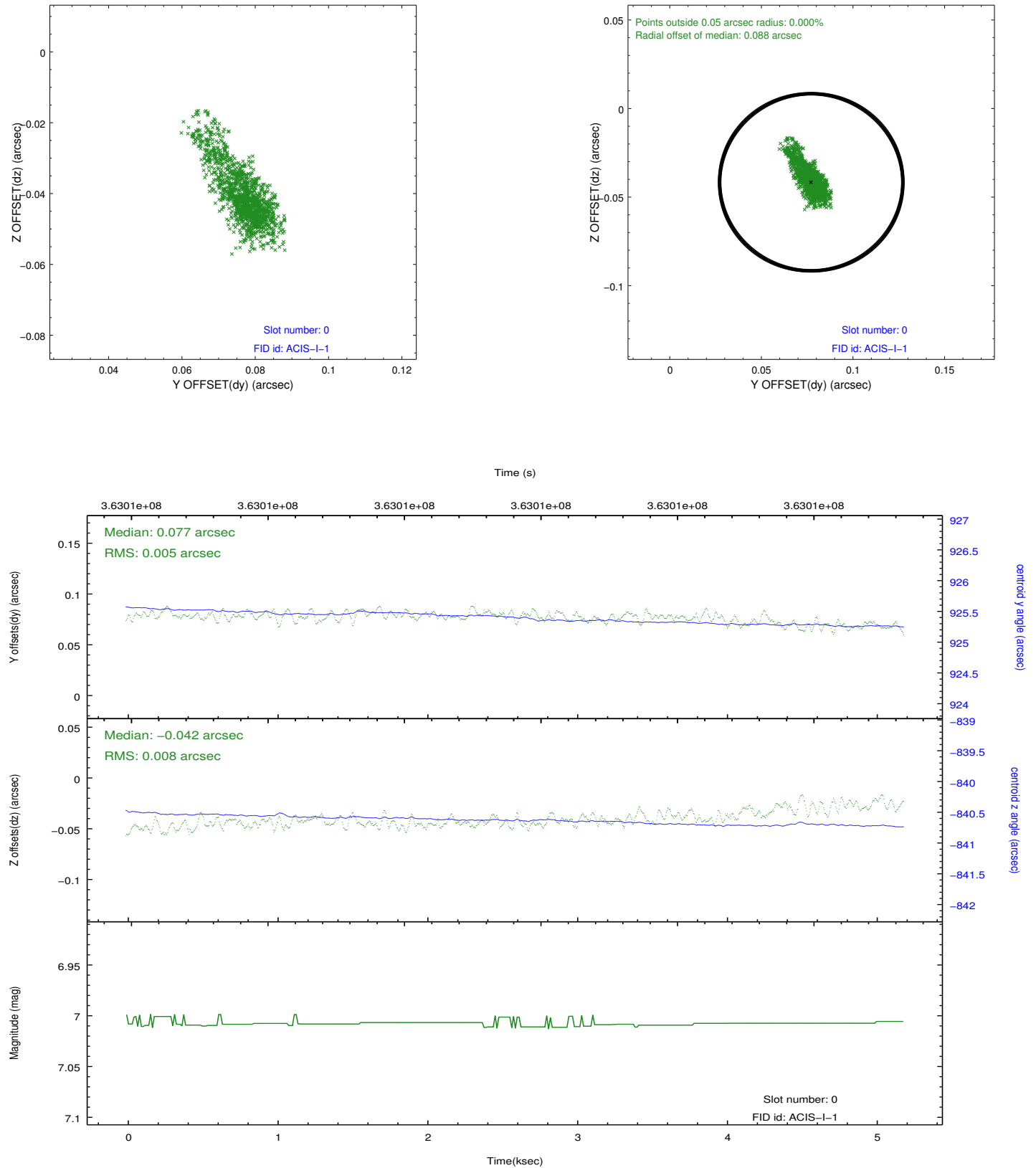


2.4.5 Slot 7

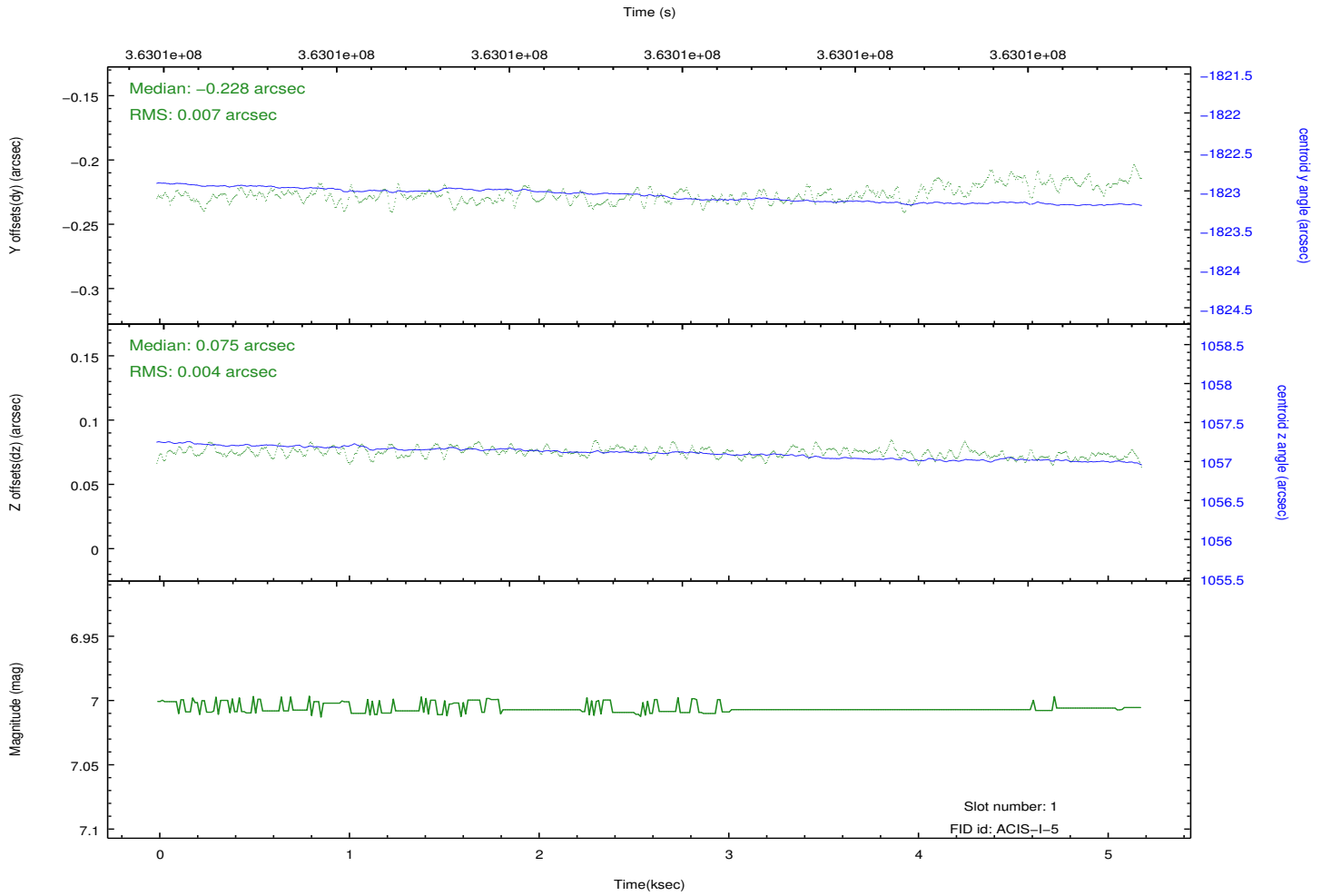
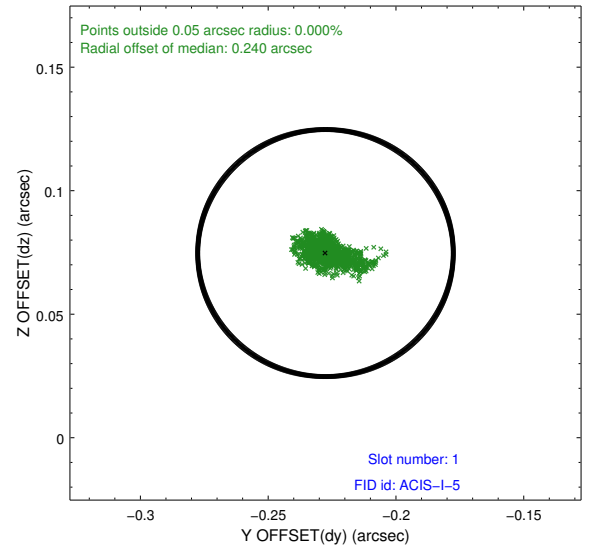
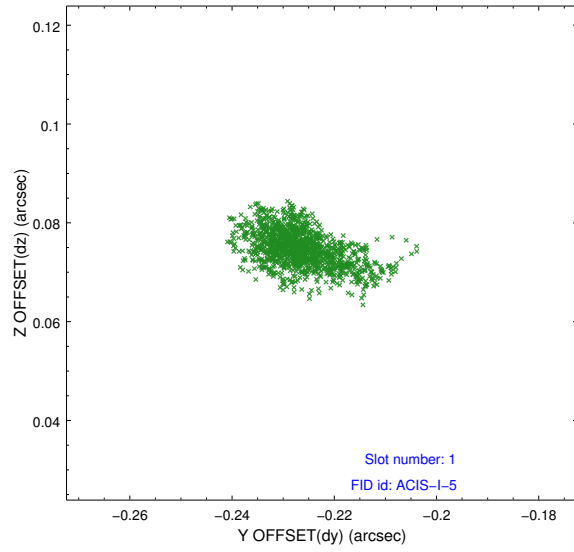


2.5 FID Slots

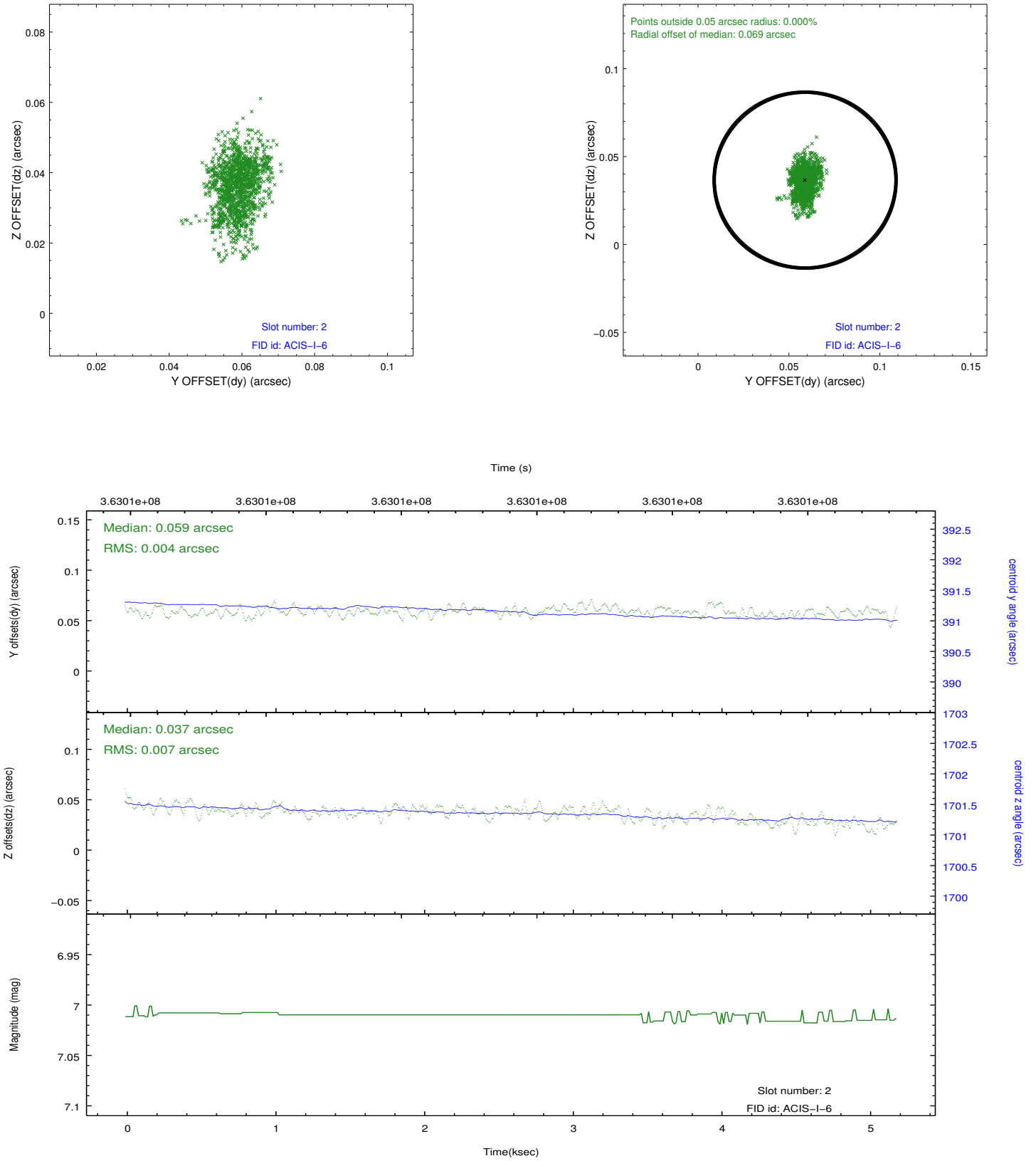
2.5.1 Slot 0



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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77090003

A.2 Comments

Monitor constraint met.