

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 14354 - L2 Version 2
Chandra X-Ray Center

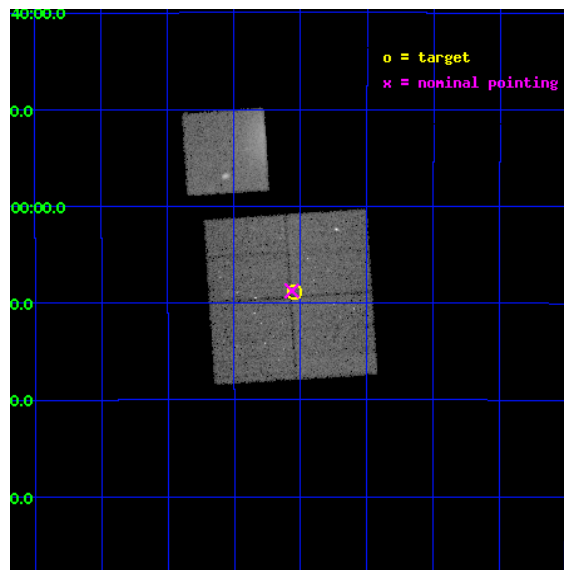
L2 Processing Date : Feb 25 2012

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1 Front

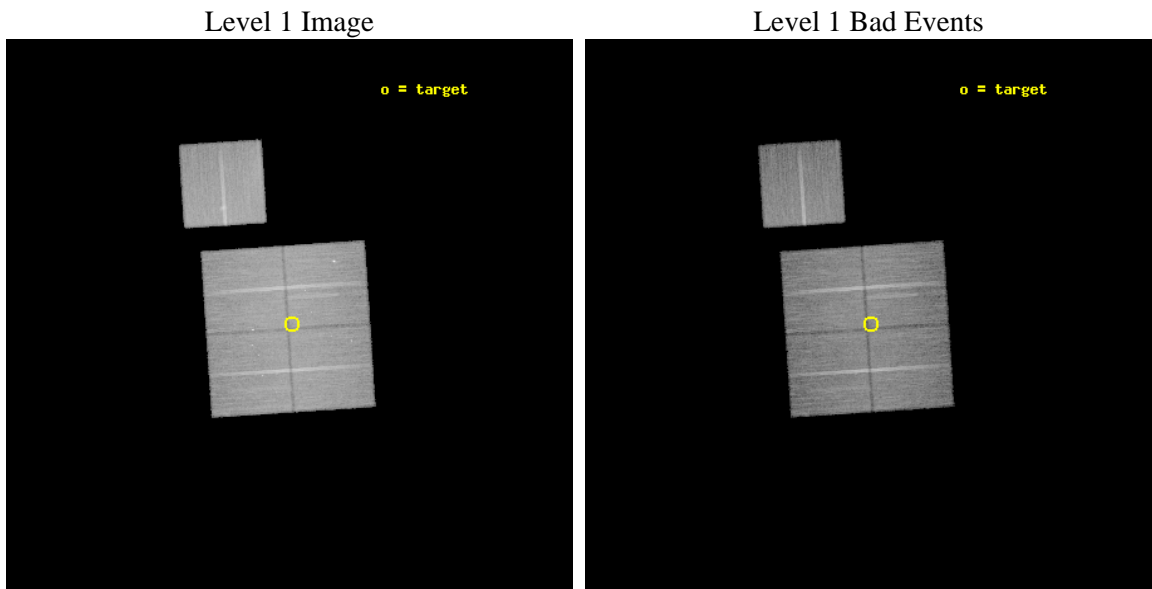
seq_num	801101	Sequence number
obs_id	14354	Observation id
title	CHANDRA EXPLORATION OF THE COSMIC MELTING POT IN THE VIRIALIZATION REGION OF A RICH GALAXY CLUSTER	Proposal title
observer	Dr. Alexey Vikhlinin	Principal investigator
object	A133-8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.635499	Observer's specified target RA [deg]
dec_targ	-22.147807	Observer's specified target Dec [deg]
ra_nom	15.641309171603	Nominal RA [deg]
dec_nom	-22.145742577096	Nominal Dec [deg]
roll_nom	356.21085339969	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39156.018210471	Sum of GTIs [s]
livetime	38644.41600631	Livetime [s]
ontime0	39159.042468011	Sum of GTIs [s]
ontime1	39152.801427245	Sum of GTIs [s]
ontime2	39152.842467666	Sum of GTIs [s]
ontime3	39156.018210471	Sum of GTIs [s]
ontime6	39162.142478228	Sum of GTIs [s]
l2events	134437	Number of level 2 events



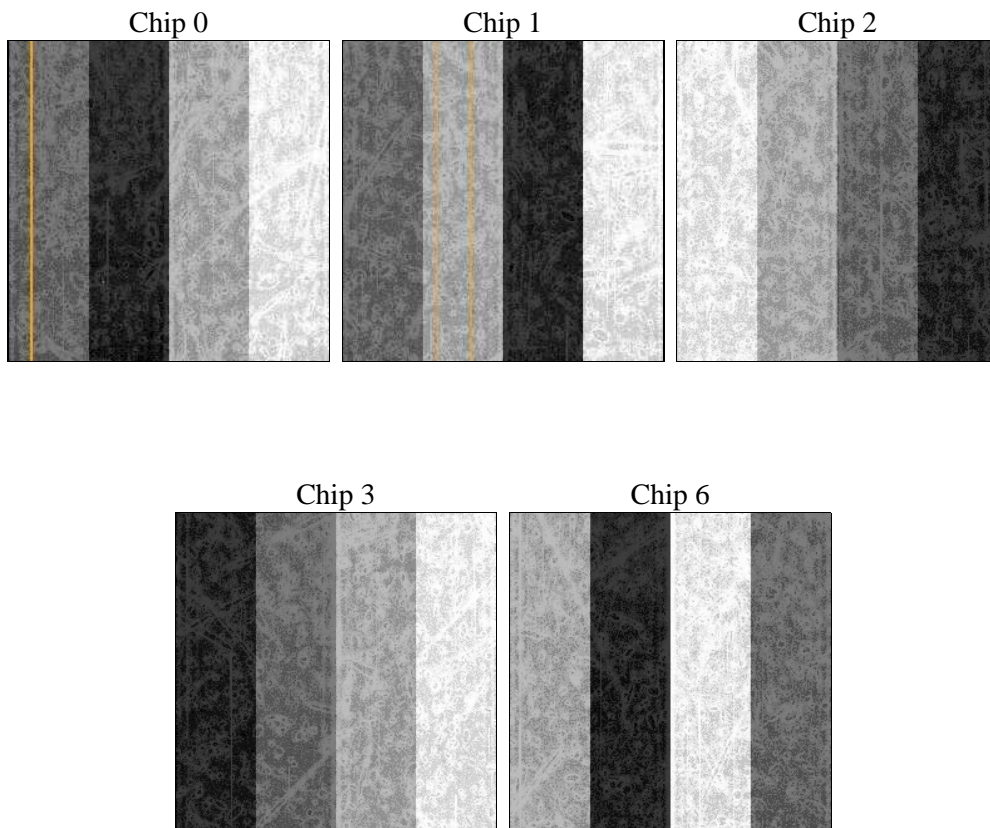
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39388.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	39156.018210471	Sum of GTIs [s]
caldbver	4.4.8	 	ontime0	39159.042468011	Sum of GTIs [s]
date	2012-02-25T03:56:34	Date and time of file creation	ontime1	39152.801427245	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	39152.842467666	Sum of GTIs [s]
			ontime3	39156.018210471	Sum of GTIs [s]
			ontime6	39162.142478228	Sum of GTIs [s]
			l1events	1150798	Number of level 1 events

2.1.4 Events

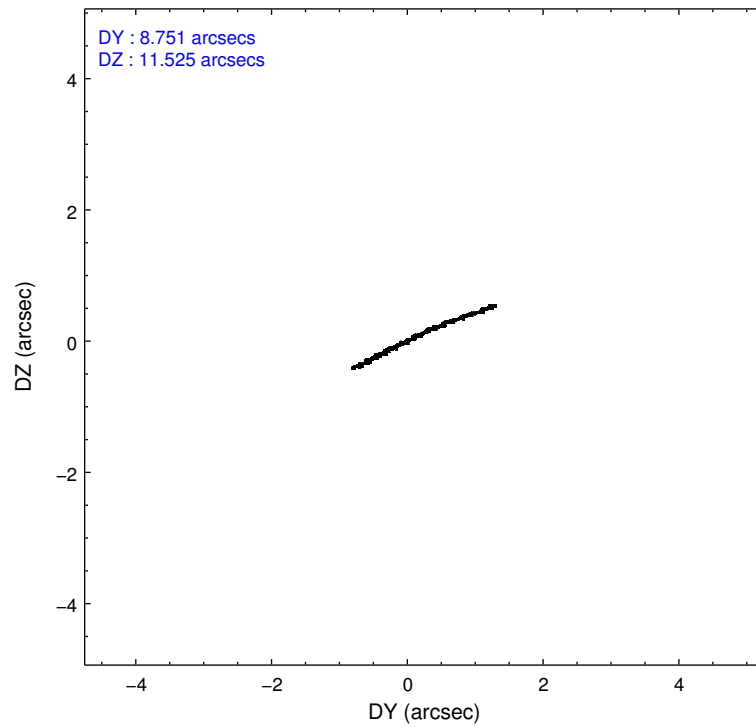
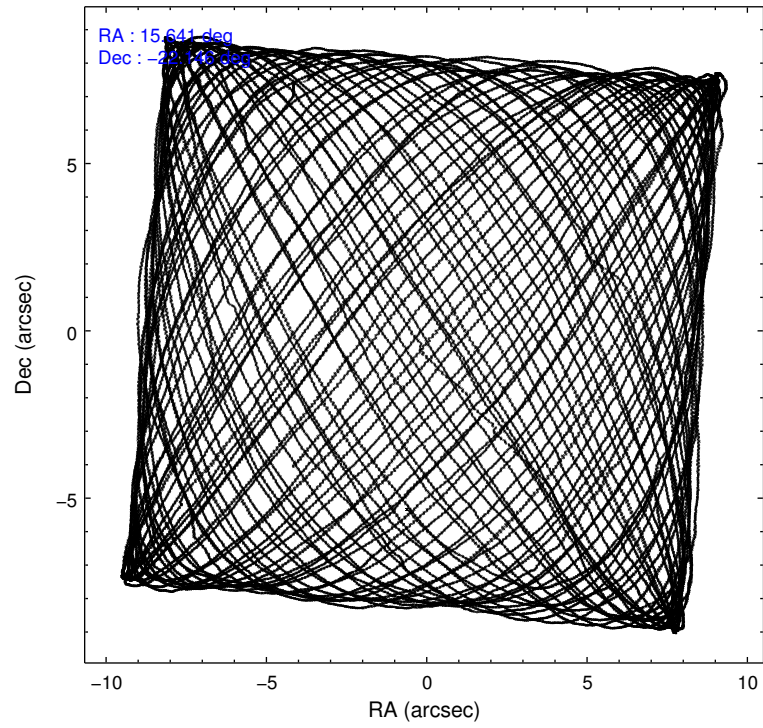
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	213790	219585	236193	232944	248286
rejected events	186634	191222	208172	204389	204478
rejected %	87%	87%	88%	87%	82%

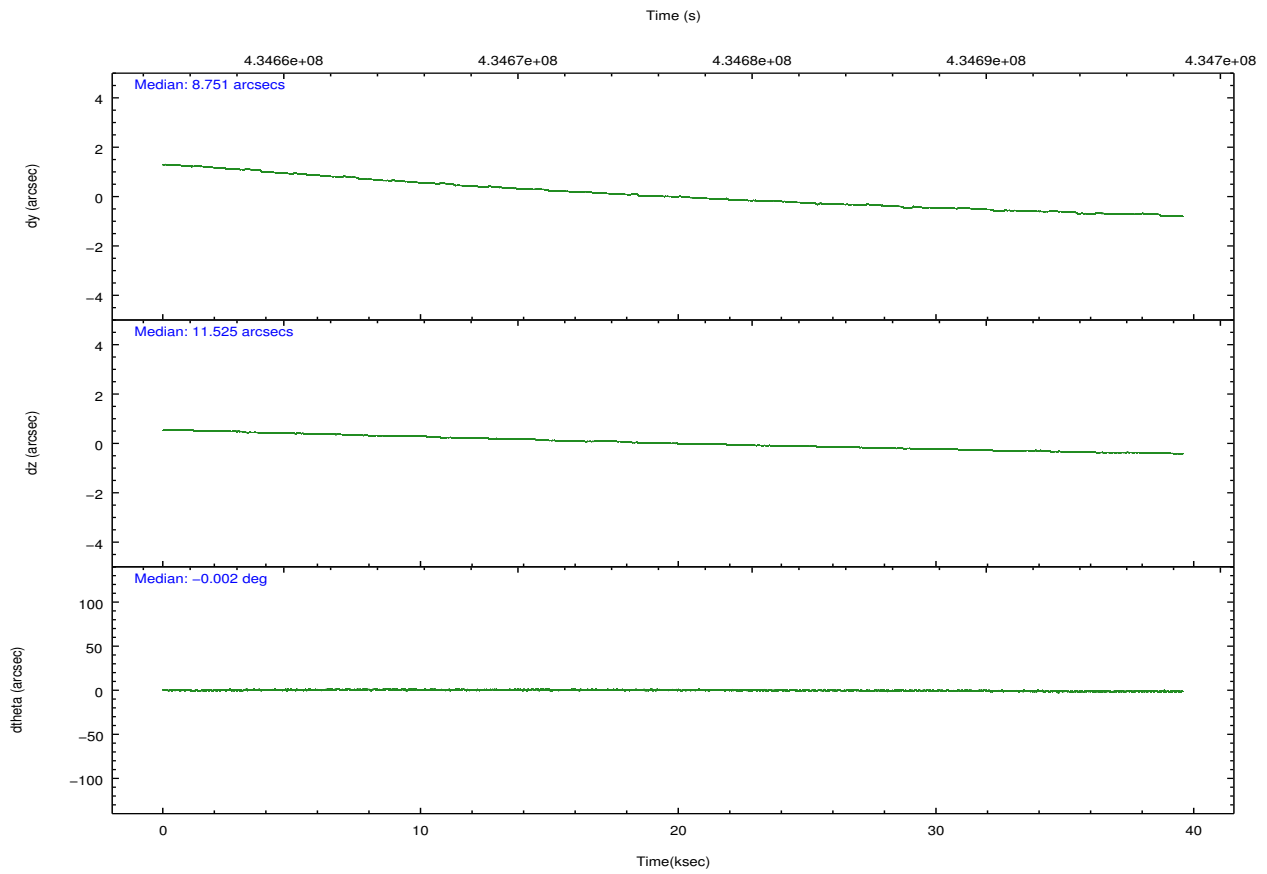
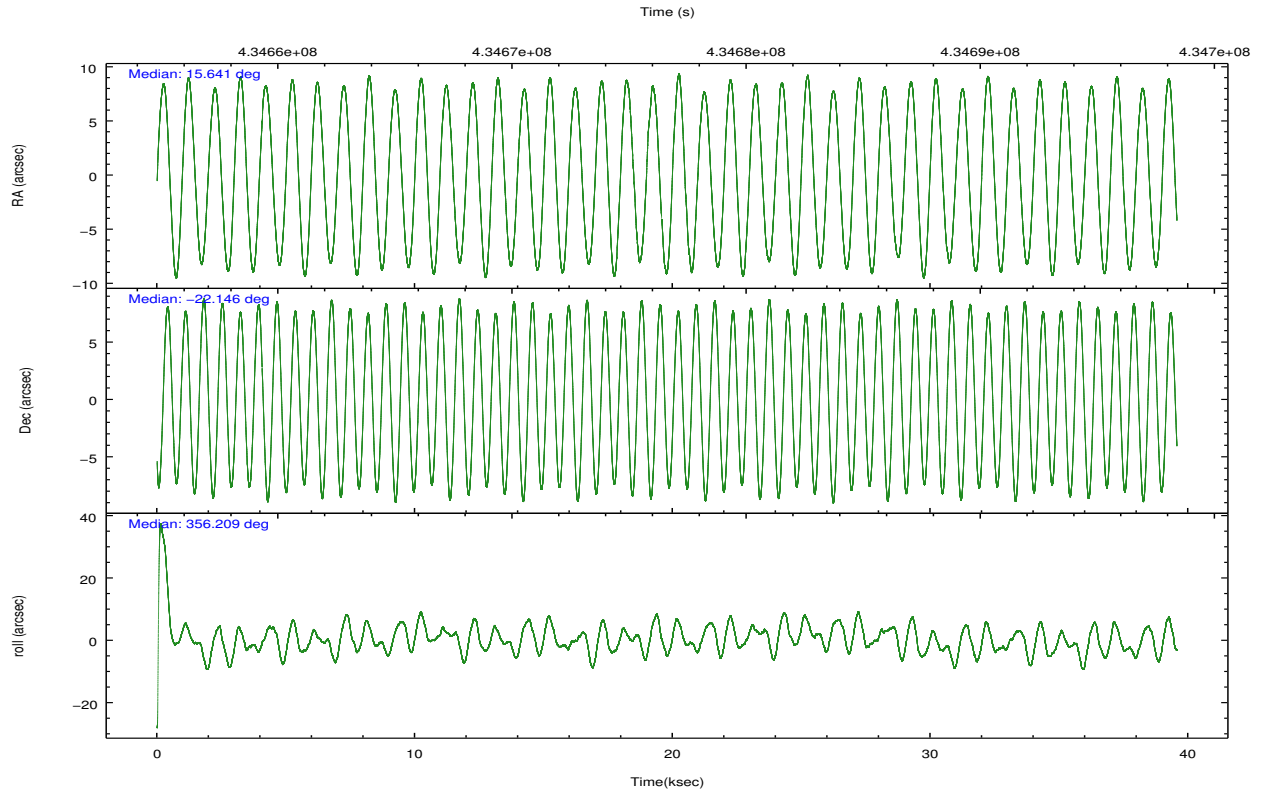
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9902	10074	11235	11617	23114
	4%	4%	4%	4%	9%
grade 1 events	148	103	142	138	151
	0%	0%	0%	0%	0%
grade 2 events	6573	6302	6278	5941	7616
	3%	2%	2%	2%	3%
grade 3 events	2888	2908	2718	2829	3322
	1%	1%	1%	1%	1%
grade 4 events	2601	2879	2690	2832	3414
	1%	1%	1%	1%	1%
grade 5 events	10235	10763	9675	11498	10978
	4%	4%	4%	4%	4%
grade 6 events	5196	6202	5101	5336	6348
	2%	2%	2%	2%	2%
grade 7 events	176247	180354	198354	192753	193343
	82%	82%	83%	82%	77%

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	15.614701	15.64130917160266	CCD I2 on	Y	Y
[deg] Pointing Dec	-22.157991	-22.14574257709646	CCD I3 on	Y	Y
[deg] Pointing Roll	355.992154	356.2108533996946	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)	434657026.184000	434656444.12165	CCD S5 on	N	N
Observation start date	2011-10-10T18:02:40	2011-10-10T17:54:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	434696414.184000	434697399.0238	On-chip summing requested	N	N
Observation end date	2011-10-11T04:59:08	2011-10-11T05:16:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



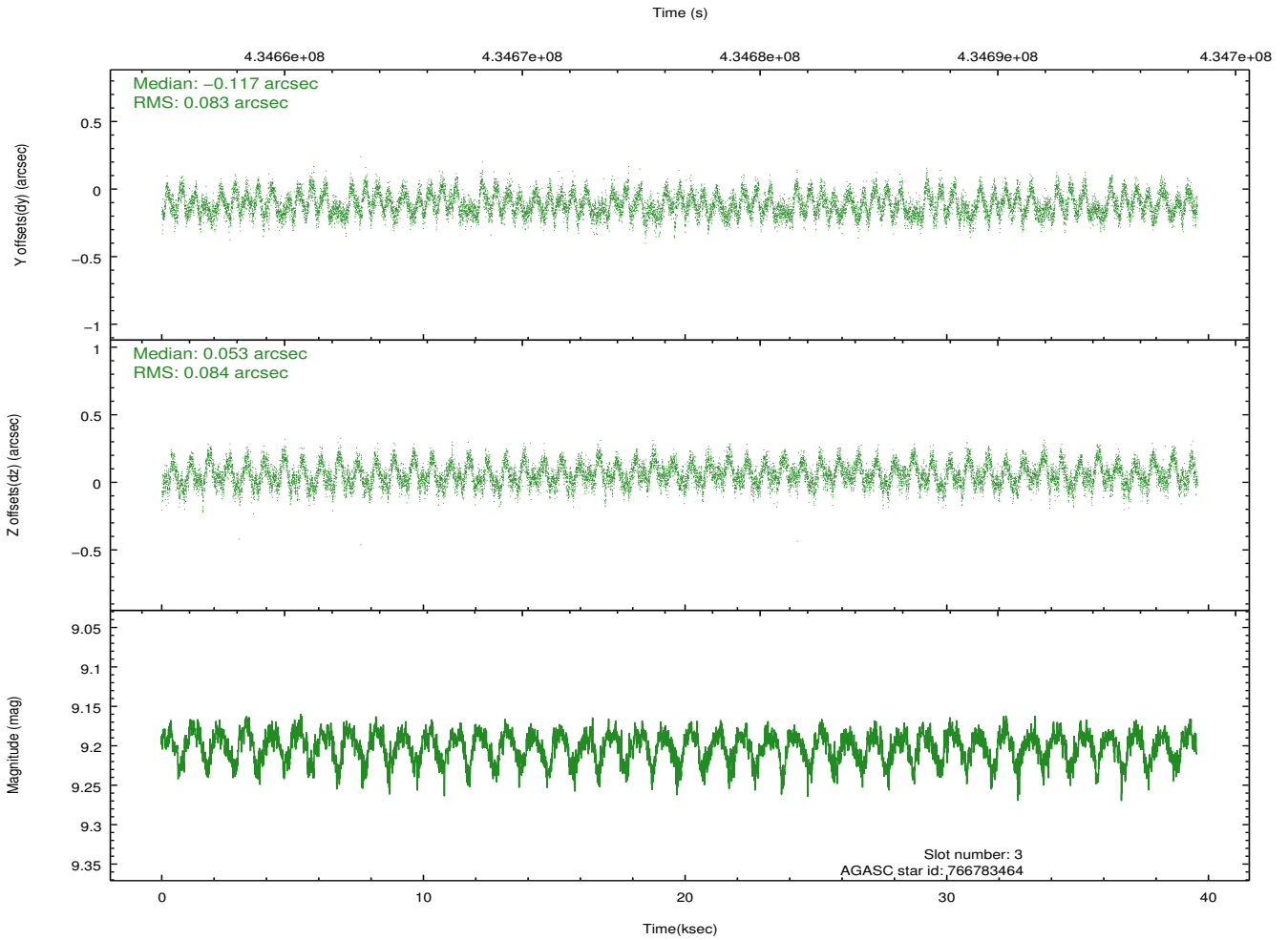
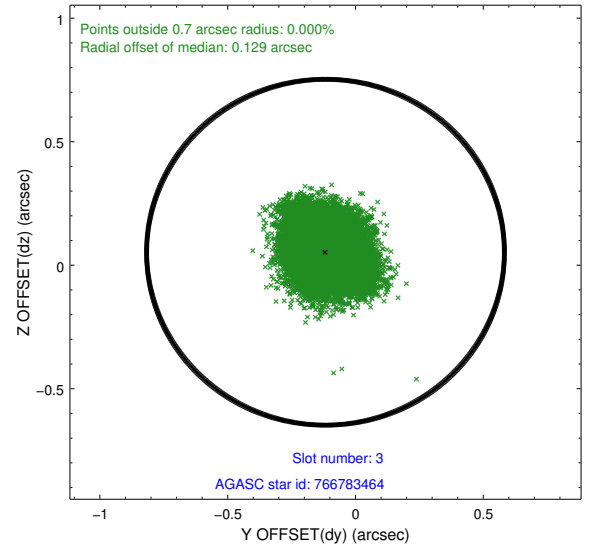
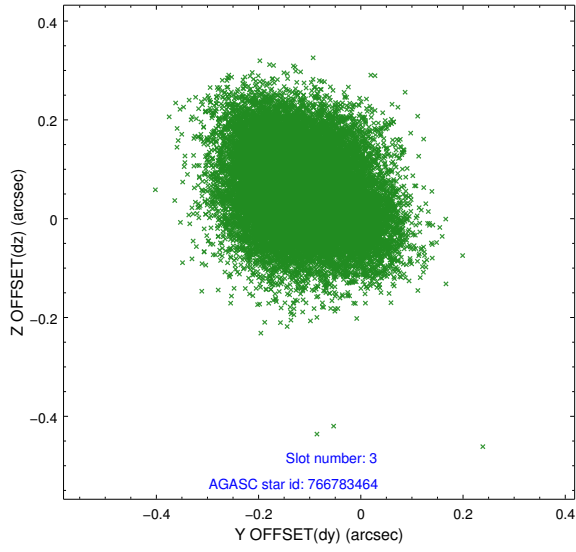


Slot Statistics

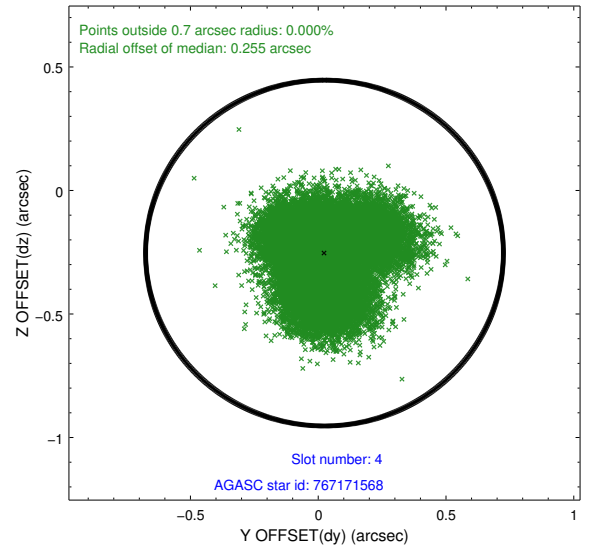
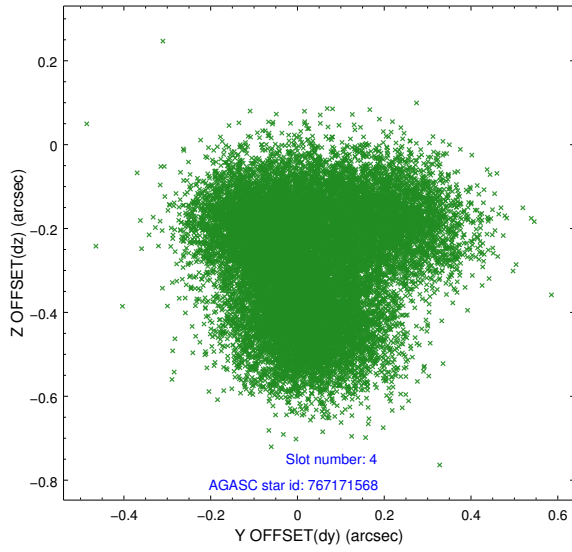
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.14	9651	0.094	-0.076	0.014	0.023	0.000000	0.000000	930.88	-835.14
1	FID	ACIS-I-5	7.13	9651	-0.237	0.085	0.009	0.018	0.000000	0.000000	-1817.54	1062.51
2	FID	ACIS-I-6	7.13	9650	0.051	0.063	0.013	0.025	0.000000	0.000000	396.38	1707.00
3	GUIDE	766783464	9.20	19293	-0.117	0.053	0.129	0.197	15.041422	-22.197983	-1895.32	-280.63
4	GUIDE	767171568	9.99	19086	0.025	-0.253	0.208	0.311	16.035890	-22.108834	1389.69	272.64
5	GUIDE	767171936	10.13	19248	-0.021	0.125	0.164	0.266	16.105335	-22.483256	1710.70	-1056.48
6	GUIDE	841745408	8.66	19292	0.069	0.096	0.098	0.168	16.162435	-22.504118	1905.41	-1118.76
7	GUIDE	841745456	10.38	19271	0.026	-0.010	0.227	0.357	15.371828	-22.806105	-639.83	-2384.63

2.4 Star Slots

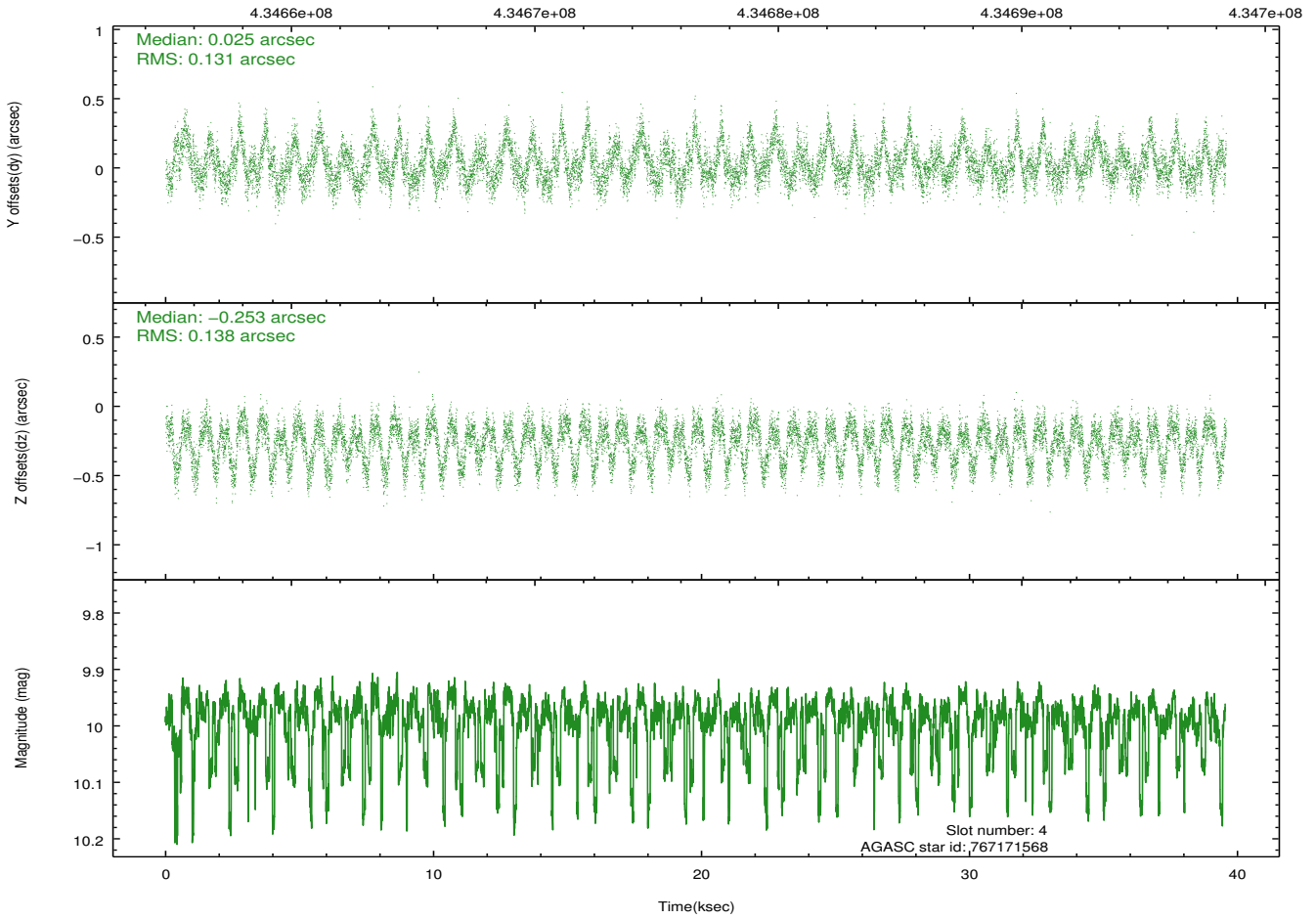
2.4.1 Slot 3



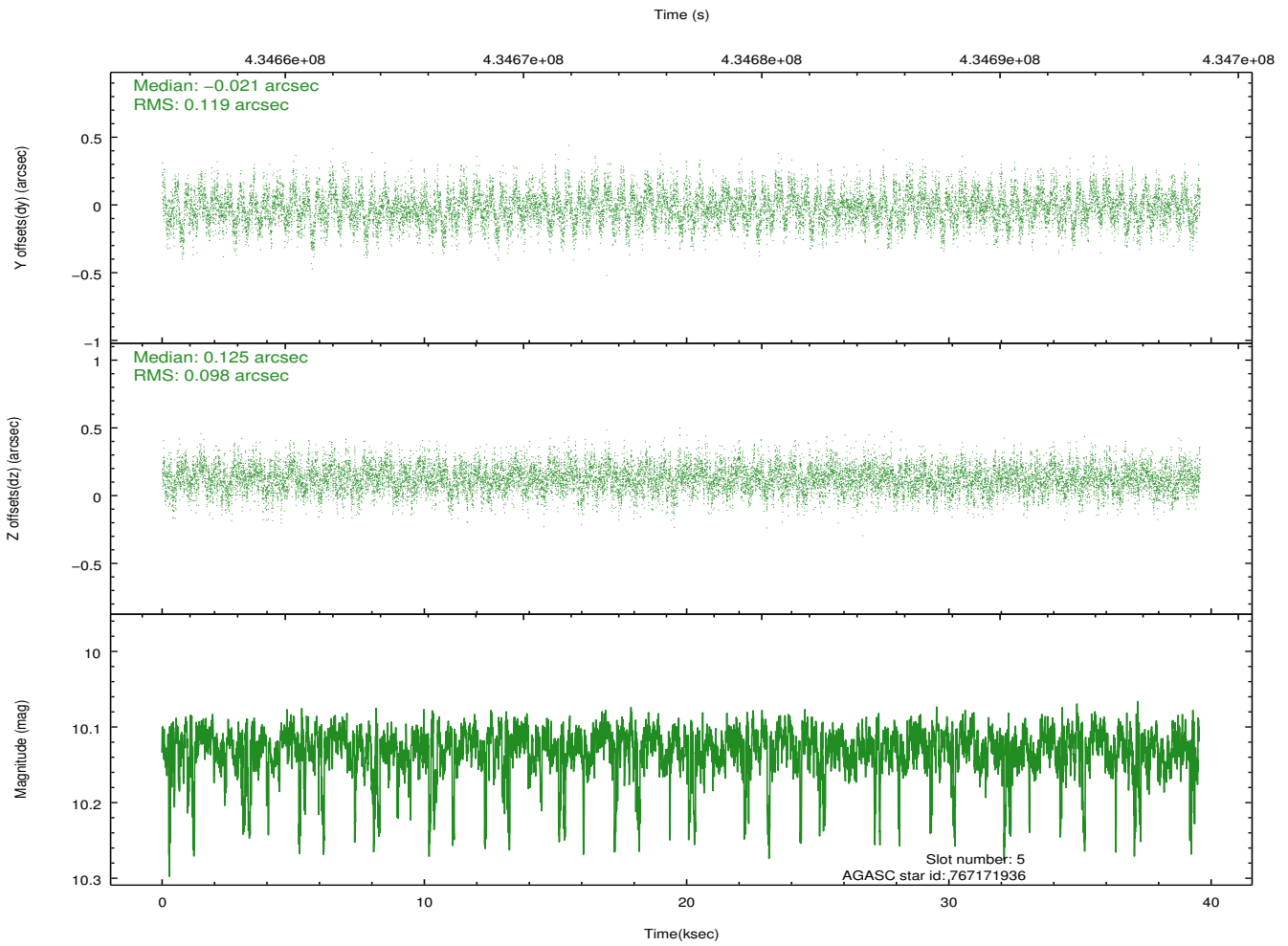
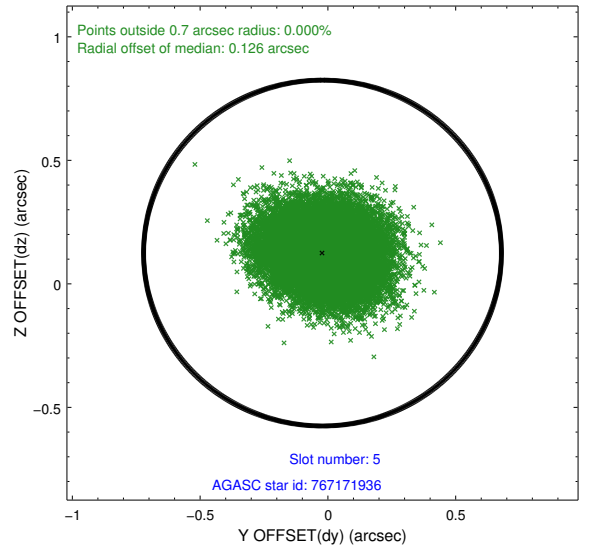
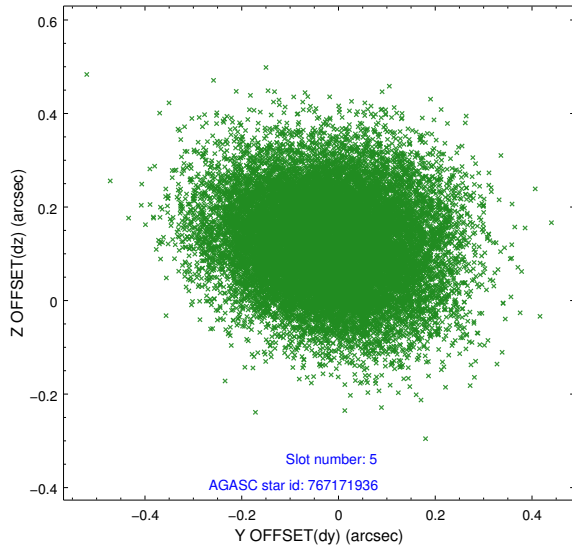
2.4.2 Slot 4



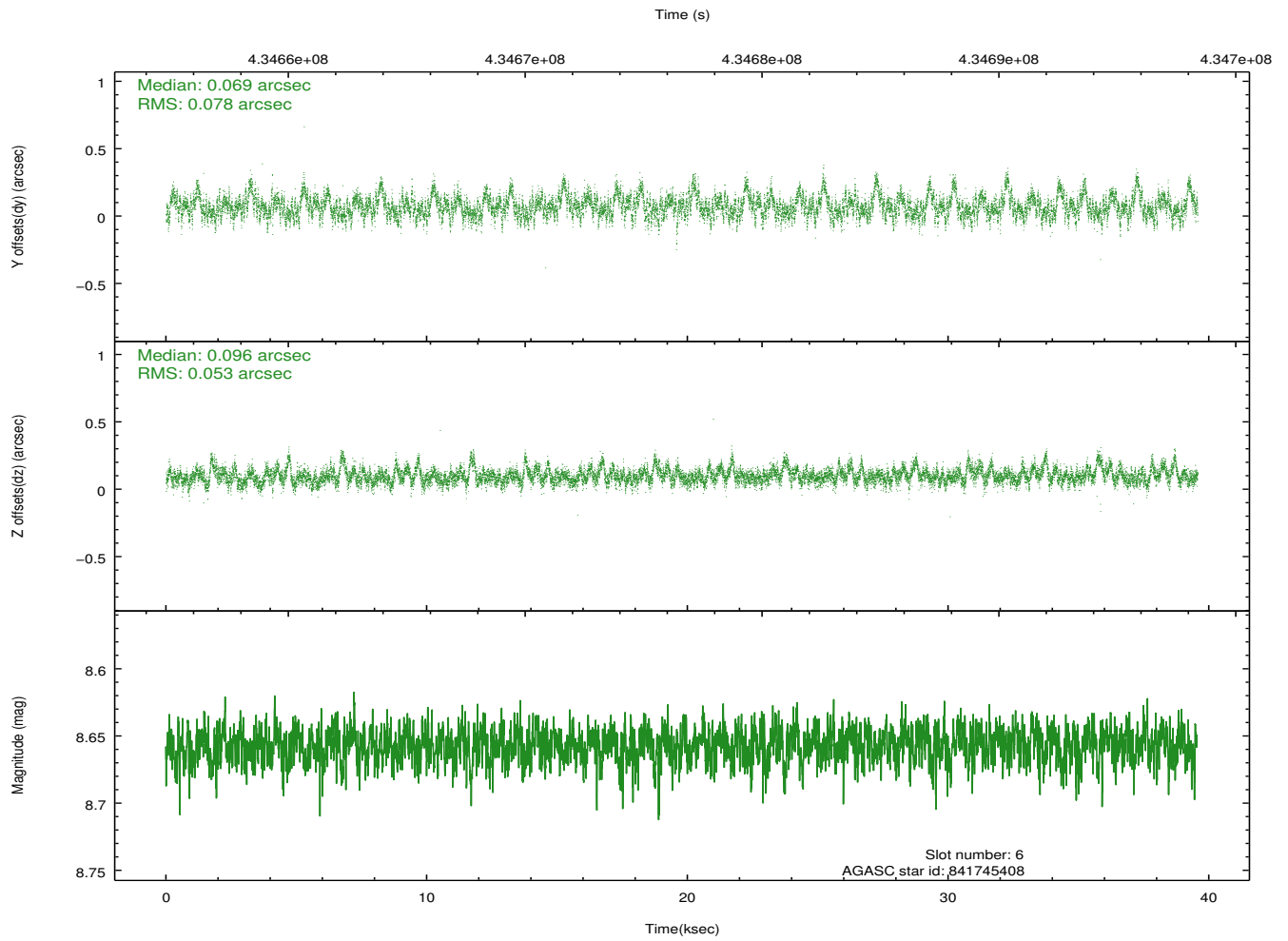
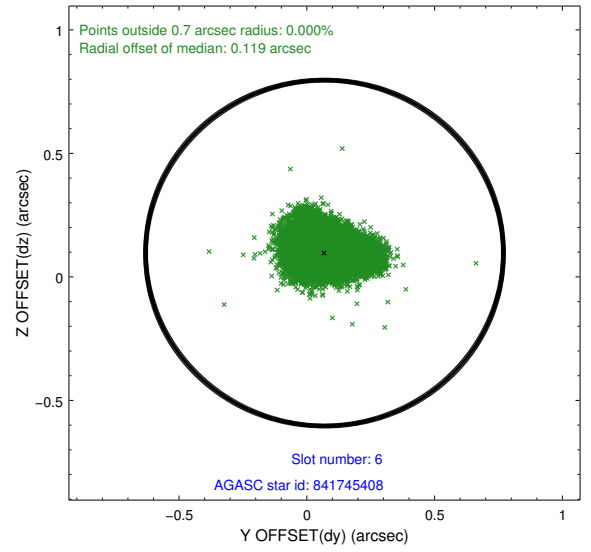
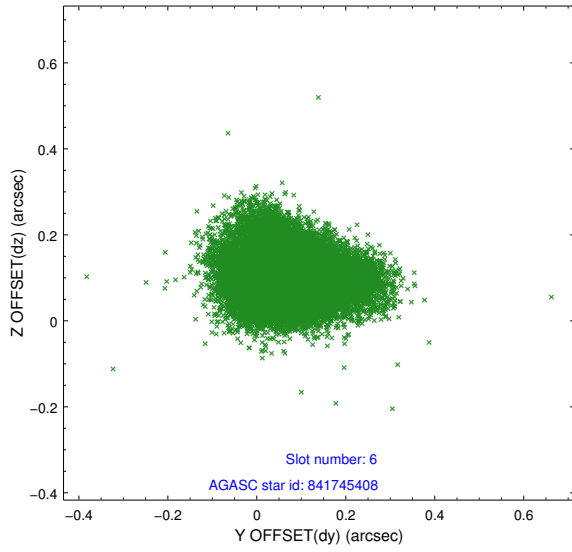
Time (s)



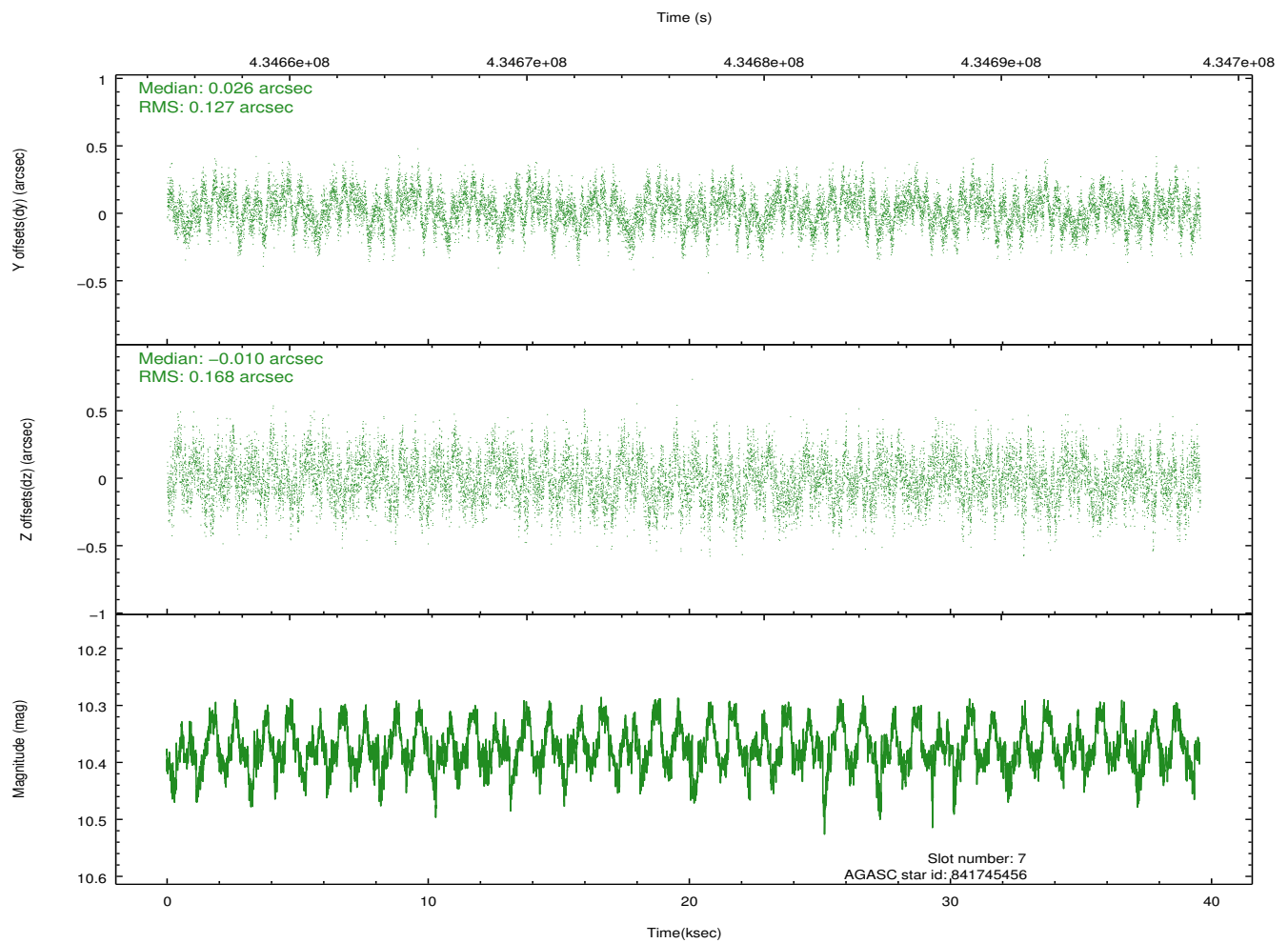
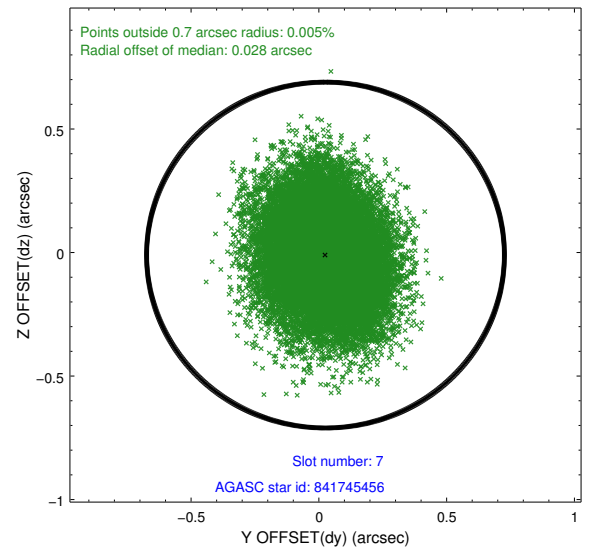
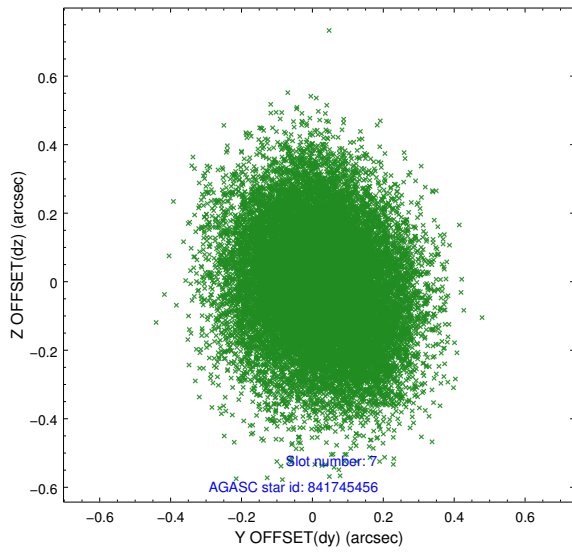
2.4.3 Slot 5



2.4.4 Slot 6

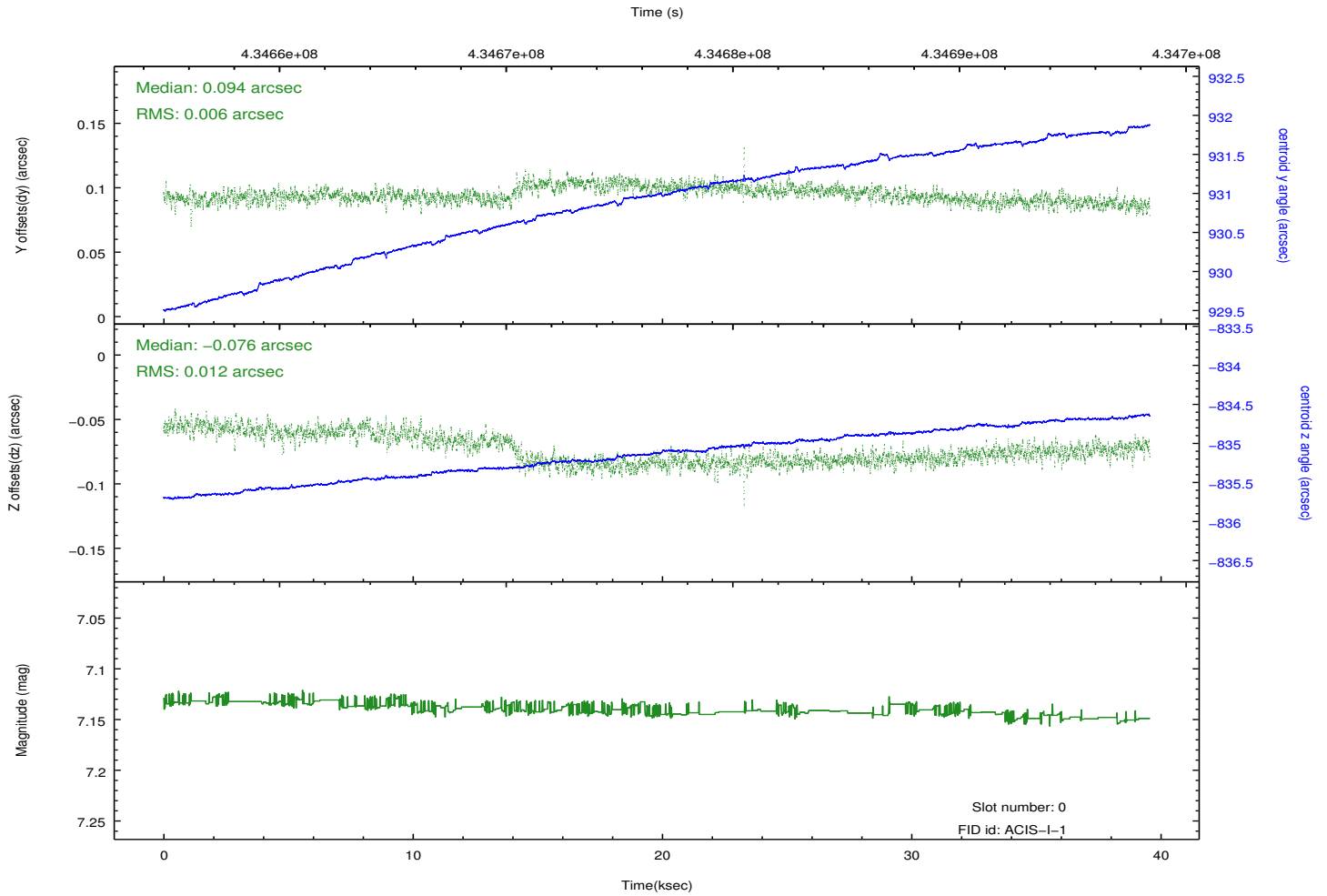
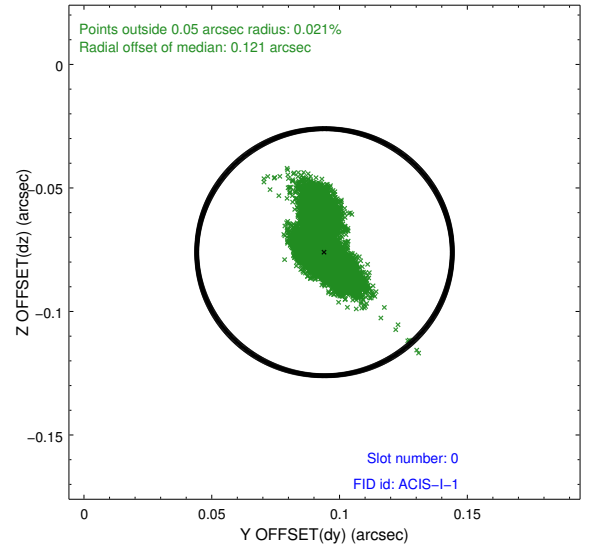
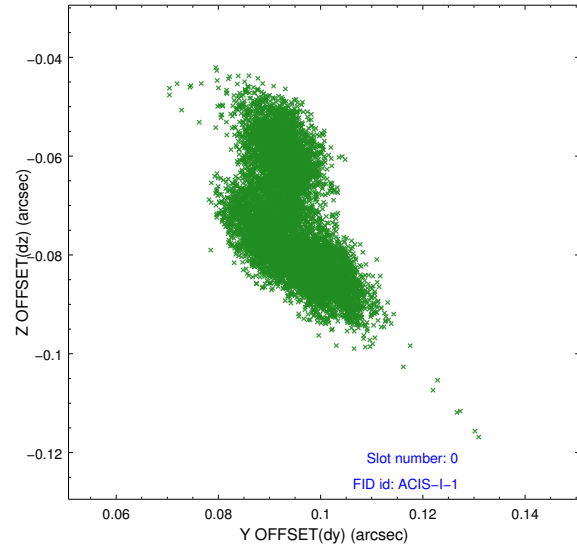


2.4.5 Slot 7

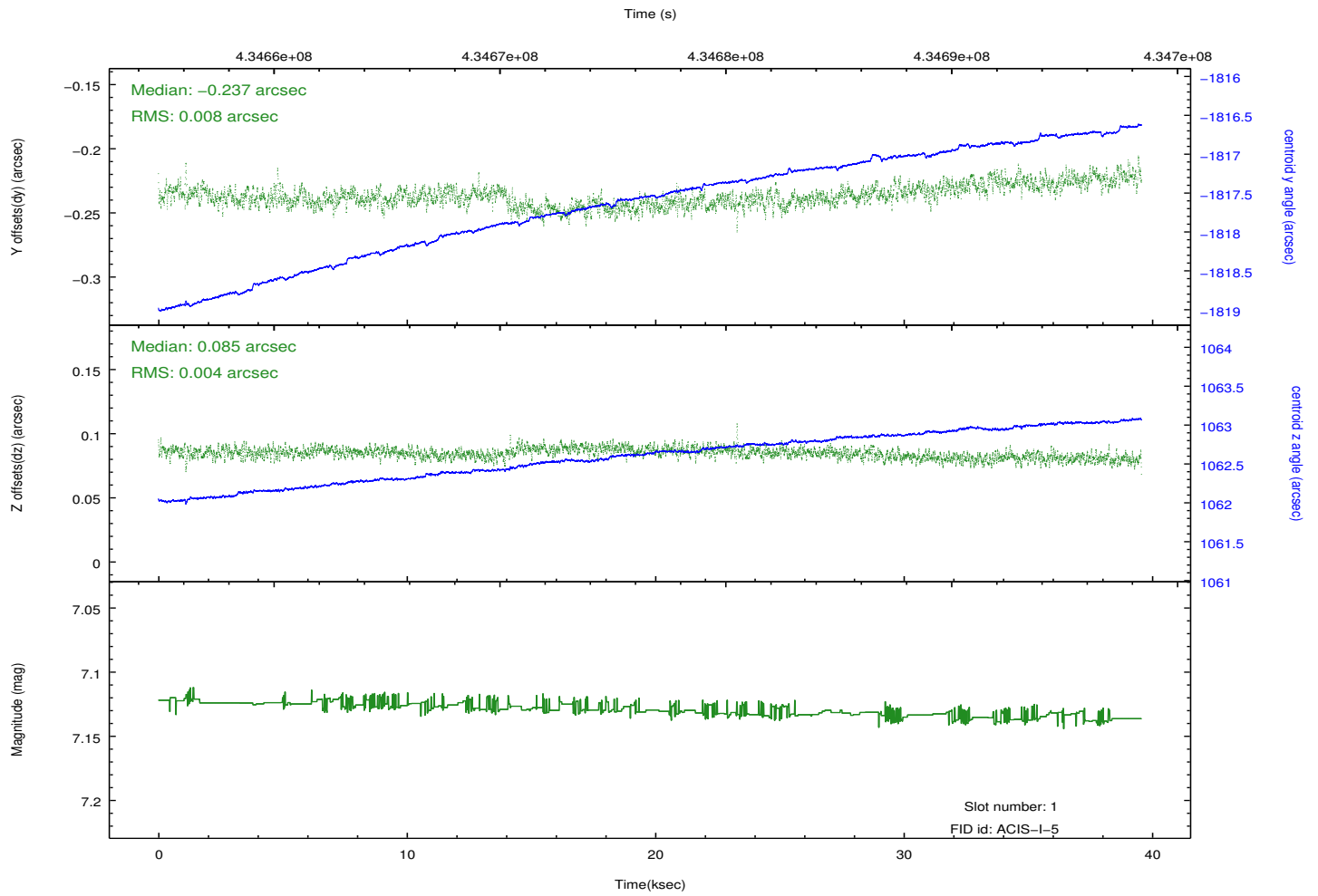
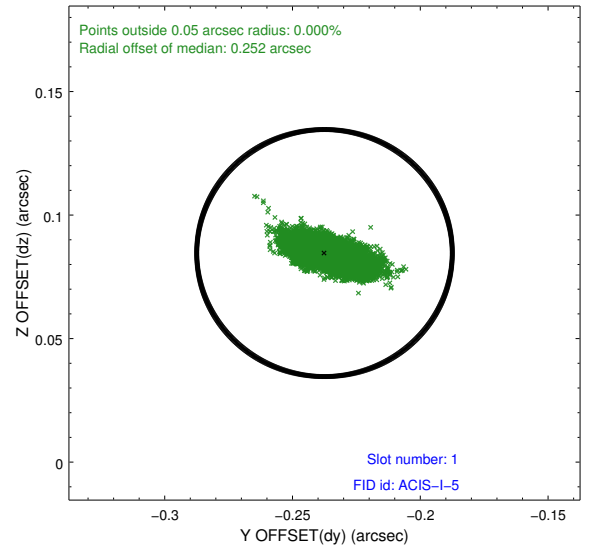
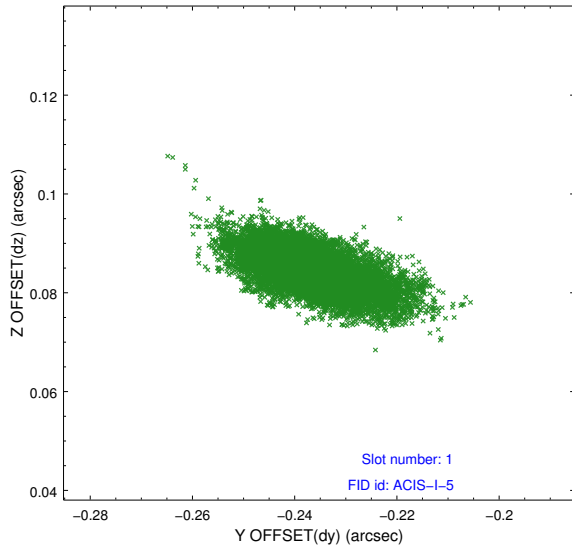


2.5 FID Slots

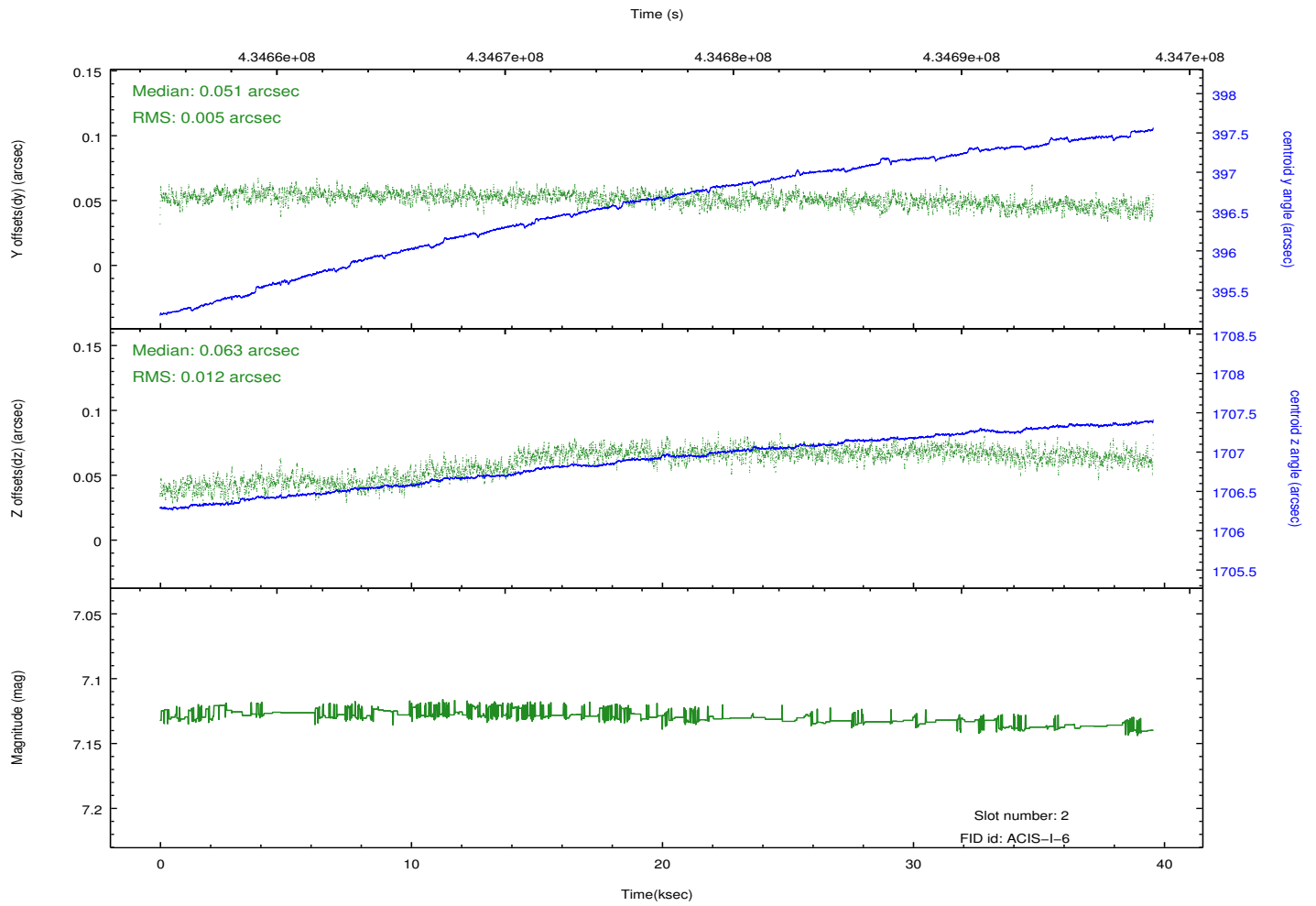
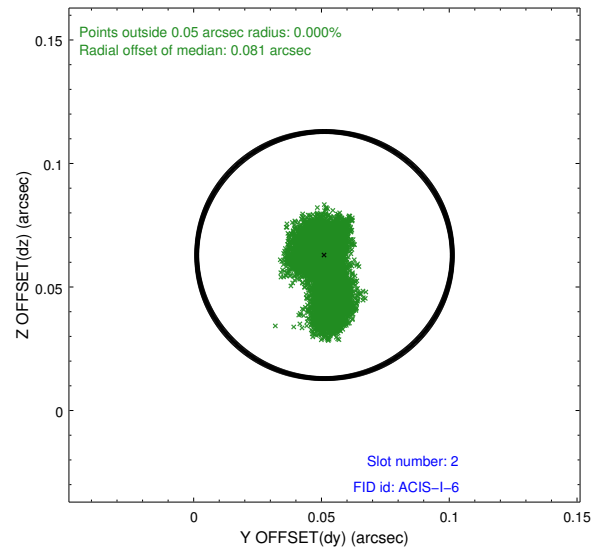
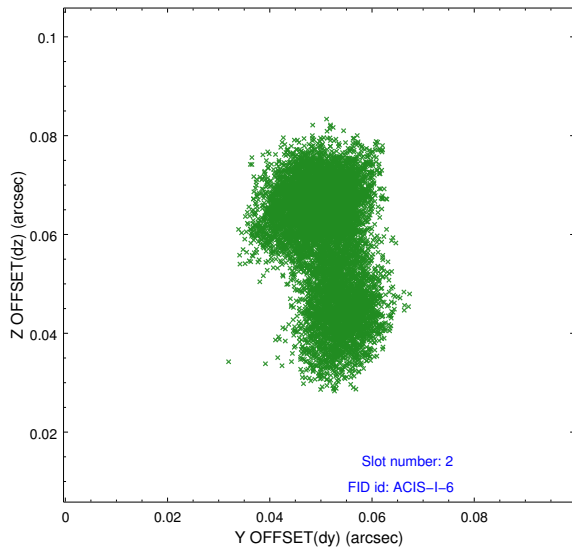
2.5.1 Slot 0



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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.15601821053

A.2 Comments