

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10971 - L2 Version 2
Chandra X-Ray Center

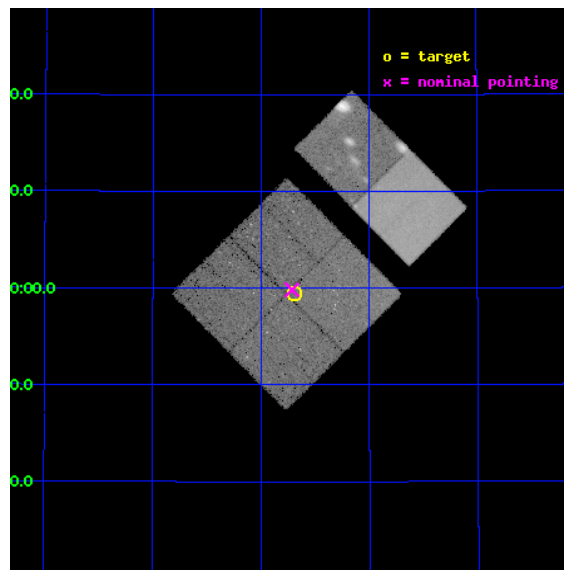
L2 Processing Date : Jun 22 2012

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1 Front

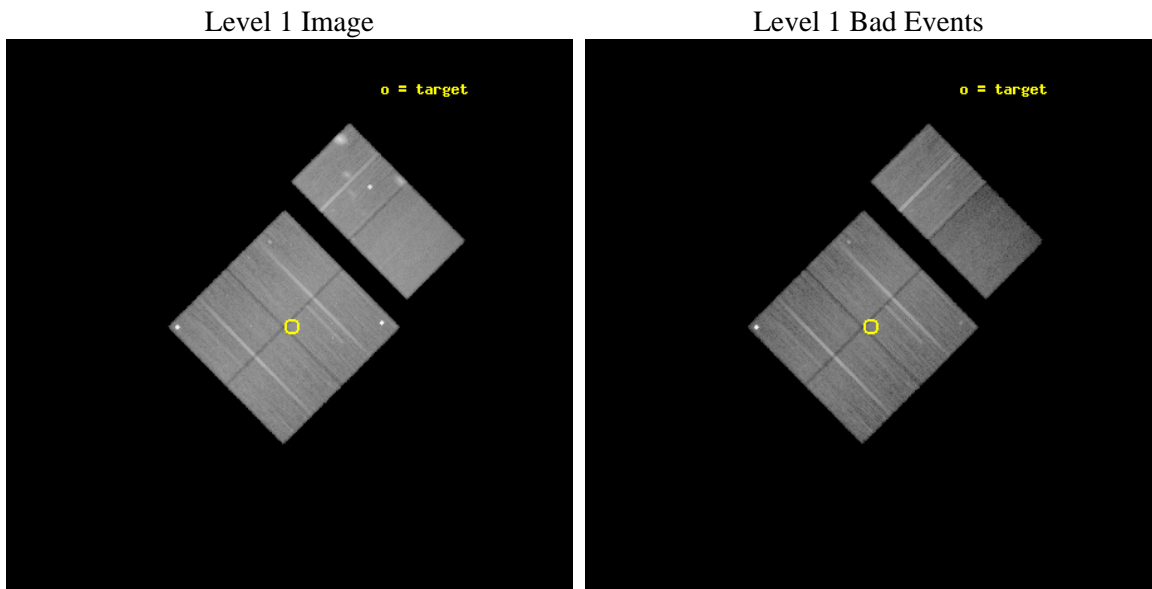
seq_num	200603	Sequence number
obs_id	10971	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.423919	Observer's specified target RA [deg]
dec_targ	40.990055	Observer's specified target Dec [deg]
ra_nom	308.42885143074	Nominal RA [deg]
dec_nom	40.997213438416	Nominal Dec [deg]
roll_nom	45.205457926755	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30611.117935419	Sum of GTIs [s]
livetime	30223.501528318	Livetime [s]
ontime0	30617.599886	Sum of GTIs [s]
ontime1	30611.11785543	Sum of GTIs [s]
ontime2	30614.358875811	Sum of GTIs [s]
ontime3	30611.117935419	Sum of GTIs [s]
ontime6	30611.117945373	Sum of GTIs [s]
ontime7	30617.599886	Sum of GTIs [s]
l2events	279676	Number of level 2 events



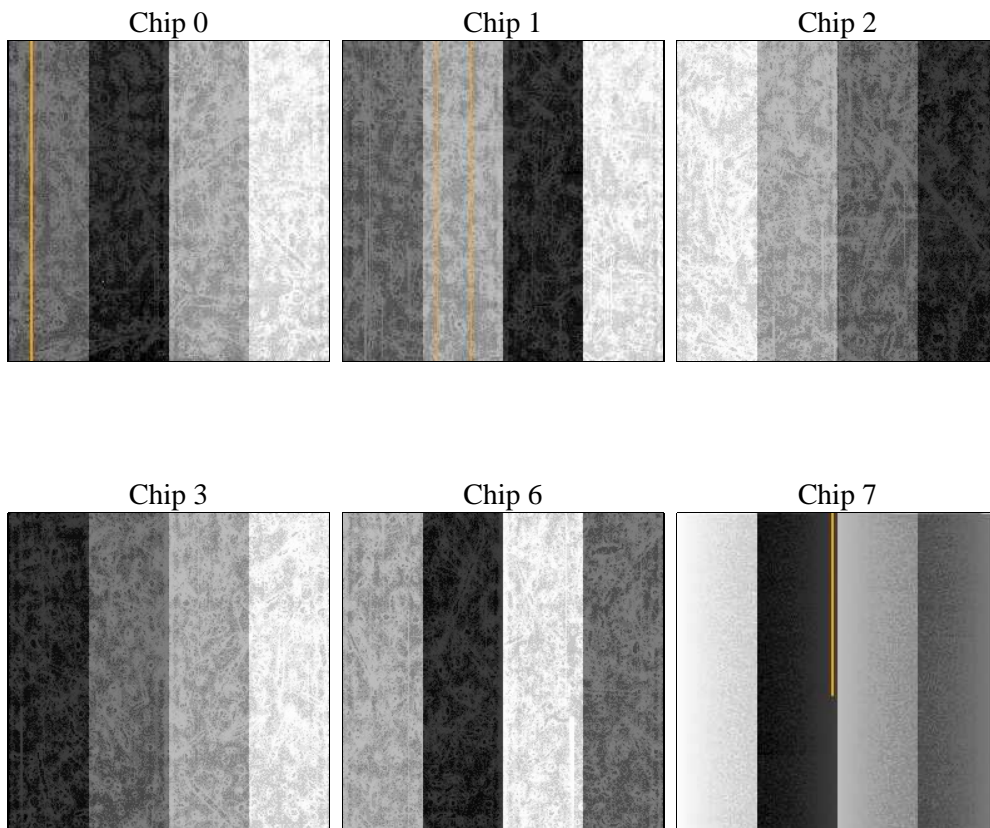
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30438.223000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30611.117935419	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	30617.599886	Sum of GTIs [s]
date	2012-06-22T16:33:05	Date and time of file creation	ontime1	30611.11785543	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	30614.358875811	Sum of GTIs [s]
			ontime3	30611.117935419	Sum of GTIs [s]
			ontime6	30611.117945373	Sum of GTIs [s]
			ontime7	30617.599886	Sum of GTIs [s]
			l1events	1476990	Number of level 1 events

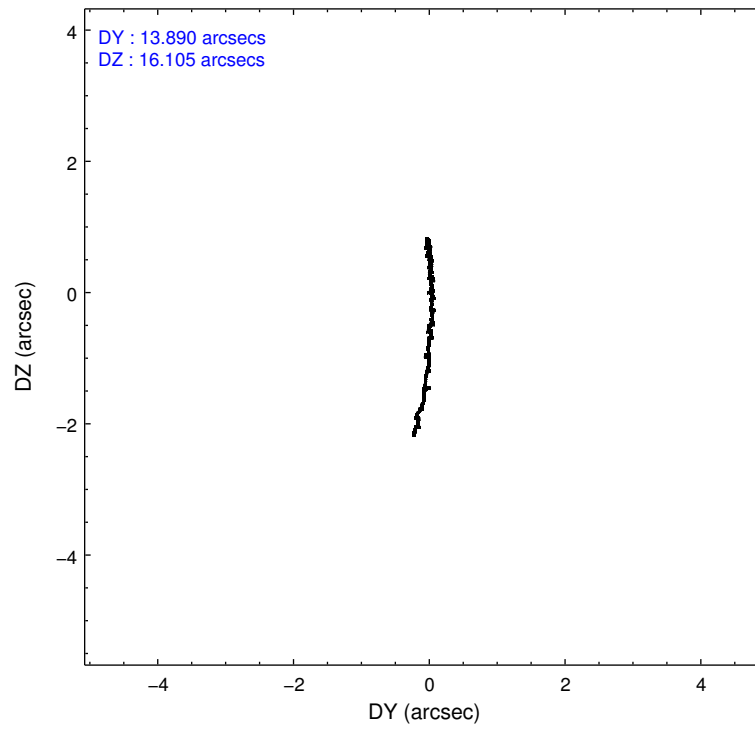
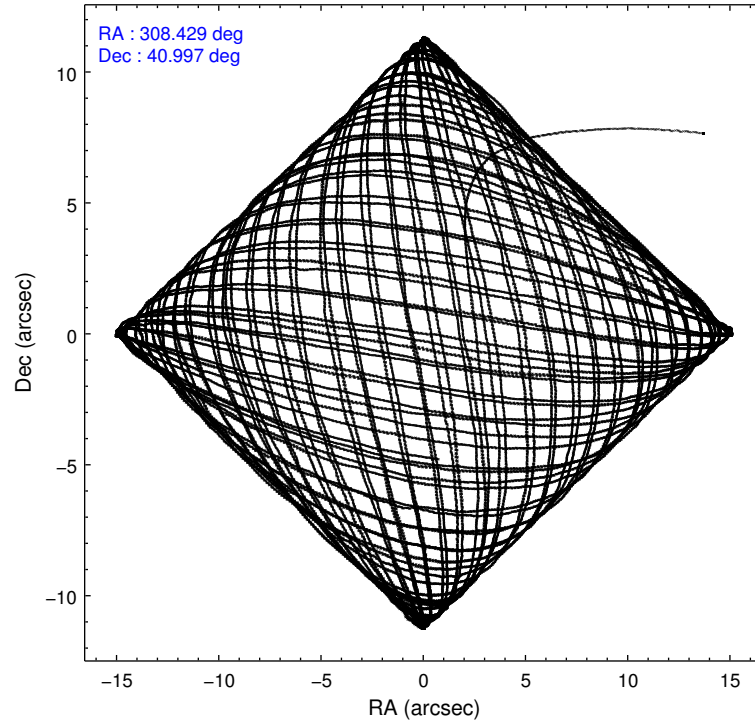
2.1.4 Events

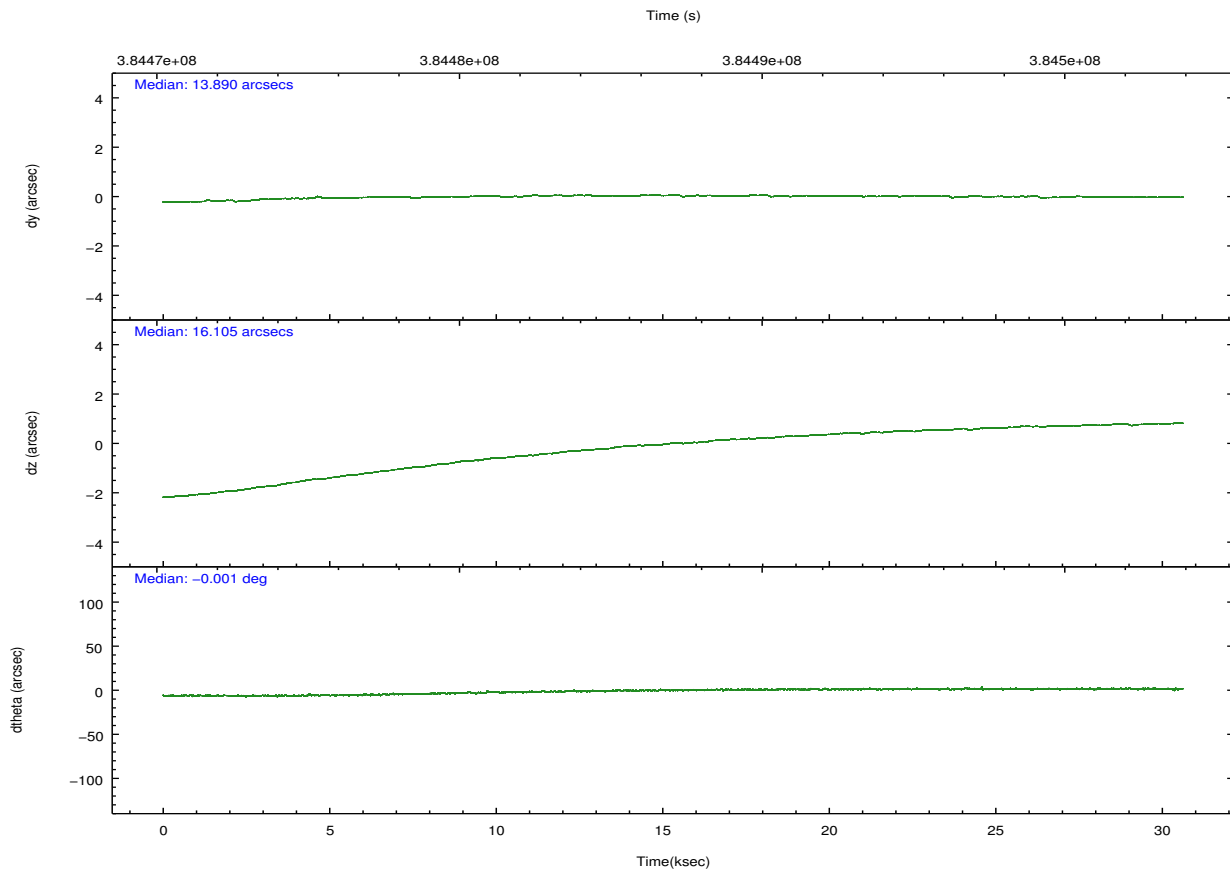
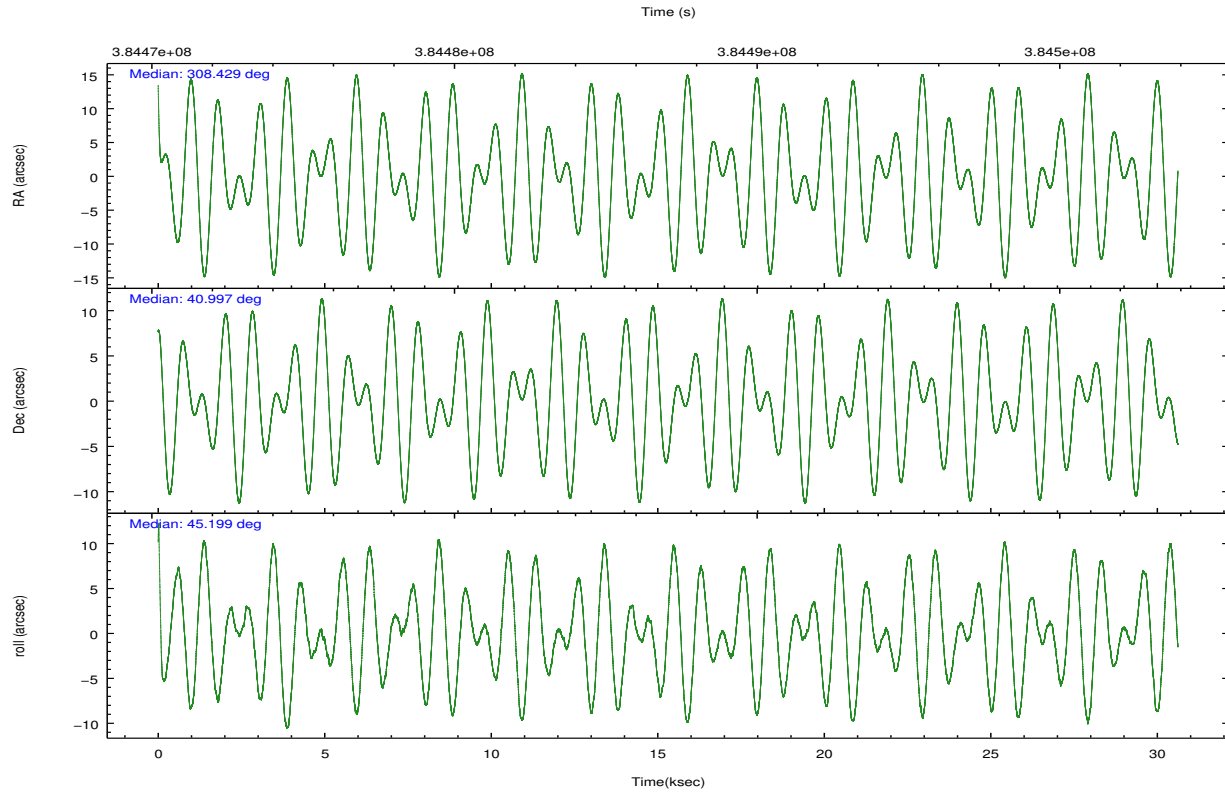
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	230991	218399	243385	254139	285070	245006	grade 0 events	10999	12300	12889	36263	39057	14283
rejected events	204077	189146	214685	200627	214079	119354		4%	5%	5%	14%	13%	5%
rejected %	88%	86%	88%	78%	75%	48%	grade 1 events	18369	135	165	301	342	355
								7%	0%	0%	0%	0%	0%
							grade 2 events	6274	6227	6270	6497	18552	27364
								2%	2%	2%	2%	6%	11%
							grade 3 events	2611	2866	2638	2990	3806	11877
								1%	1%	1%	1%	1%	4%
							grade 4 events	2546	2832	2651	3013	3816	11839
								1%	1%	1%	1%	1%	4%
							grade 5 events	7674	8090	7009	8621	8919	24914
								3%	3%	2%	3%	3%	10%
							grade 6 events	4574	5119	4347	4932	6032	60665
								1%	2%	1%	1%	2%	24%
							grade 7 events	177944	180830	207416	191522	204546	93709
								77%	82%	85%	75%	71%	38%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	308.419702	308.4288514307395	CCD I2 on	Y	Y
[deg] Pointing Dec	40.970604	40.9972134384157	CCD I3 on	Y	Y
[deg] Pointing Roll	45.002760	45.20545792675485	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	384471924.184000	384470802.41695	CCD S5 on	N	N
Observation start date	2010-03-08T21:44:18	2010-03-08T21:26:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	384502362.184000	384502599.45607	On-chip summing requested	N	N
Observation end date	2010-03-09T06:11:36	2010-03-09T06:16:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



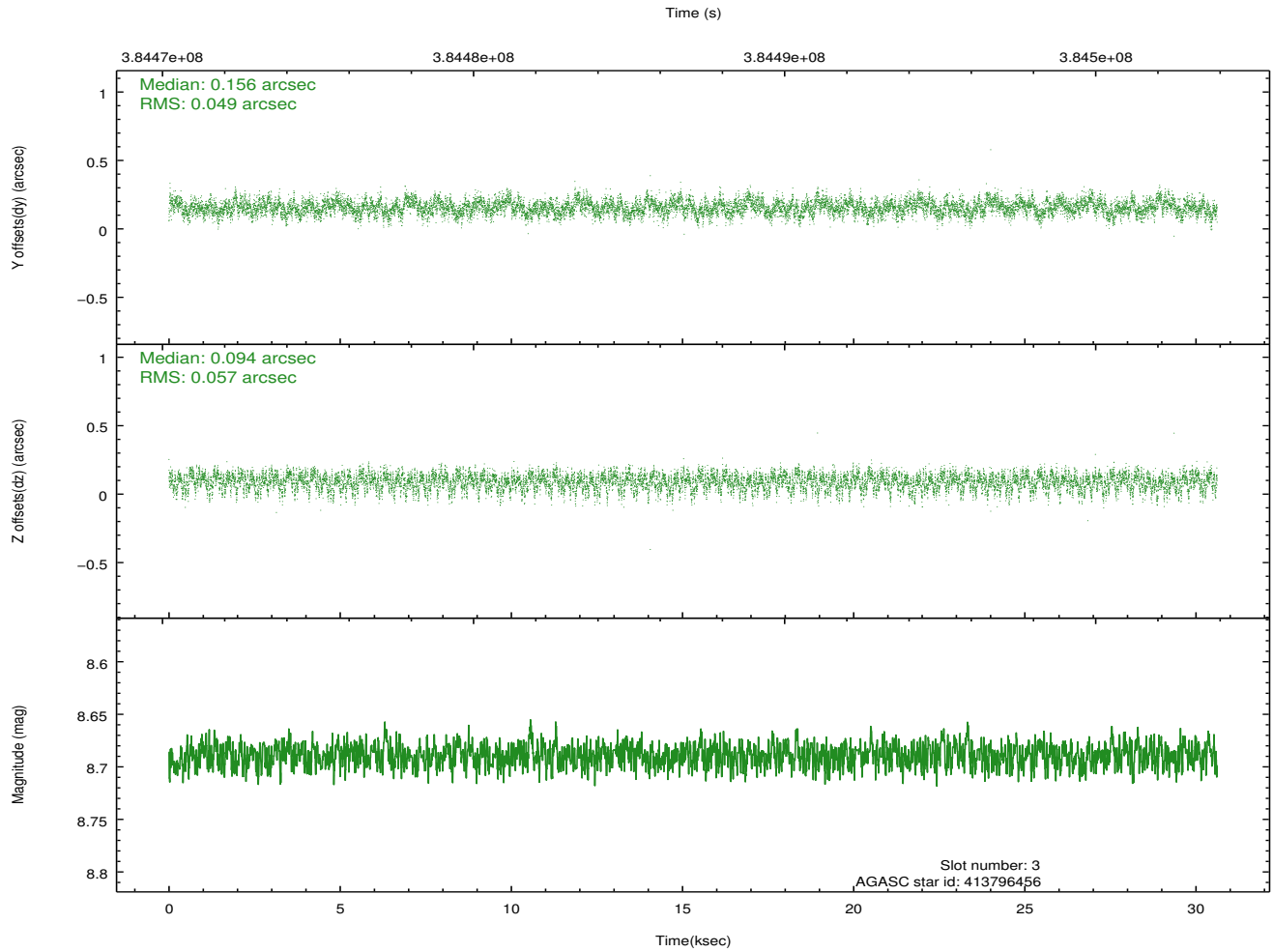
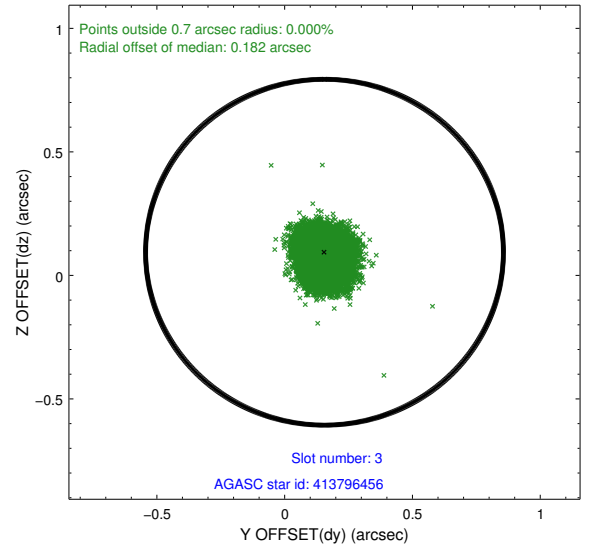
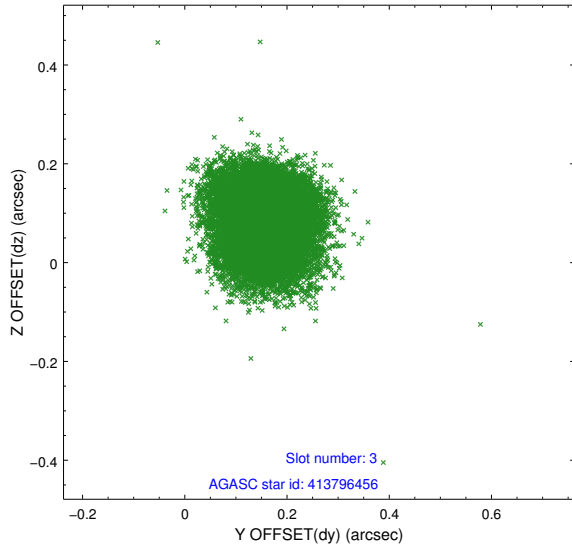


Slot Statistics

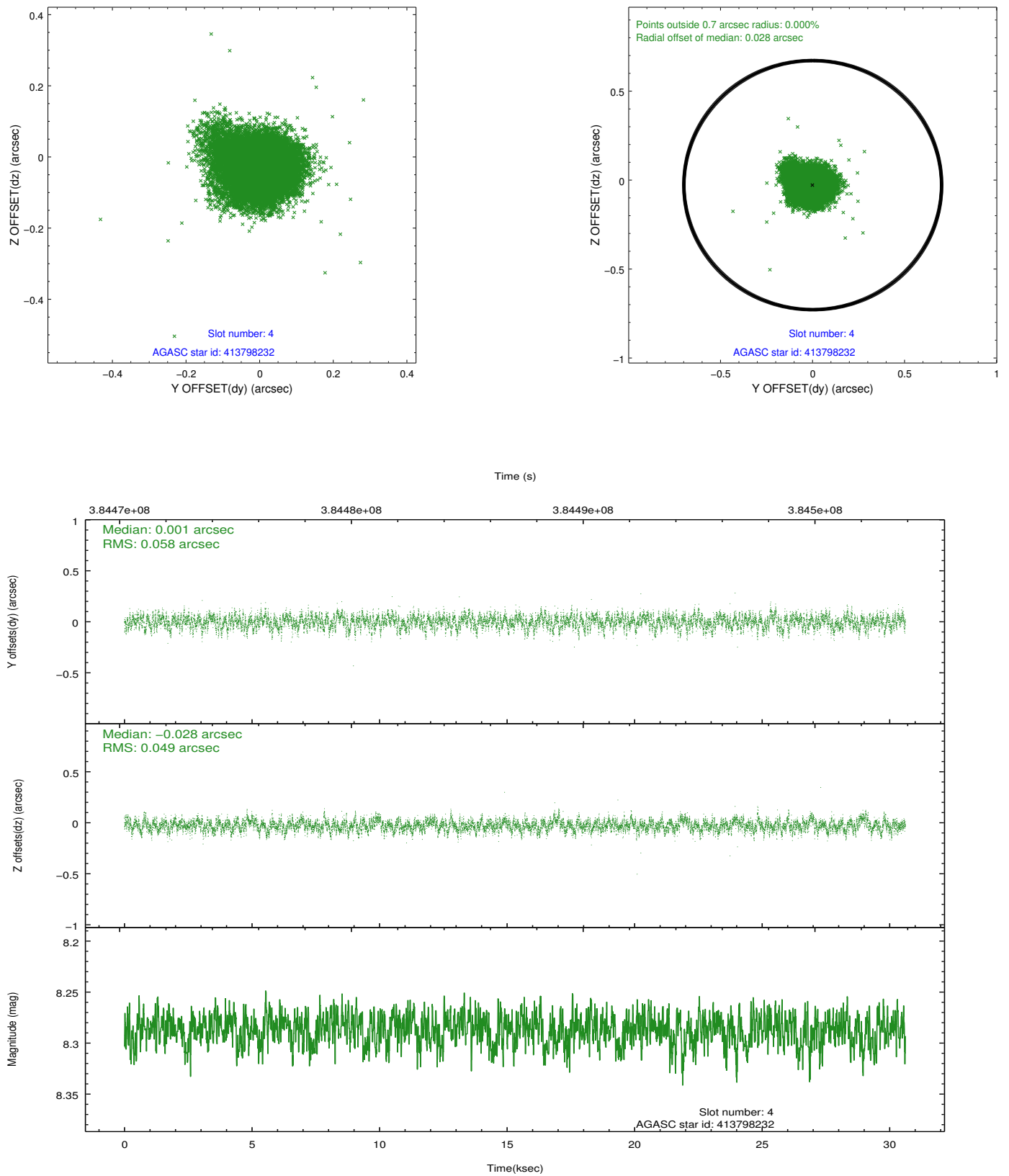
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.08	7469	0.060	-0.035	0.024	0.080	0.000000	0.000000	925.66	-839.49
1	FID	ACIS-I-5	7.07	7469	-0.213	0.059	0.019	0.029	0.000000	0.000000	-1822.66	1058.06
2	FID	ACIS-I-6	7.07	7468	0.064	0.041	0.018	0.049	0.000000	0.000000	391.16	1702.61
3	GUIDE	413796456	8.69	14927	0.156	0.094	0.080	0.130	308.312084	40.613132	-1117.39	-701.66
4	GUIDE	413798232	8.29	14933	0.001	-0.028	0.079	0.132	309.116117	41.044272	1529.86	-1144.07
5	GUIDE	413805632	9.04	14928	0.098	0.172	0.092	0.145	308.281827	40.295563	-1985.38	-1450.32
6	GUIDE	413805792	7.32	14935	-0.071	-0.041	0.057	0.094	307.778748	40.858024	-1515.78	952.20
7	GUIDE	414326136	7.35	14935	-0.184	-0.191	0.062	0.100	308.256176	41.473642	969.13	1593.01

2.4 Star Slots

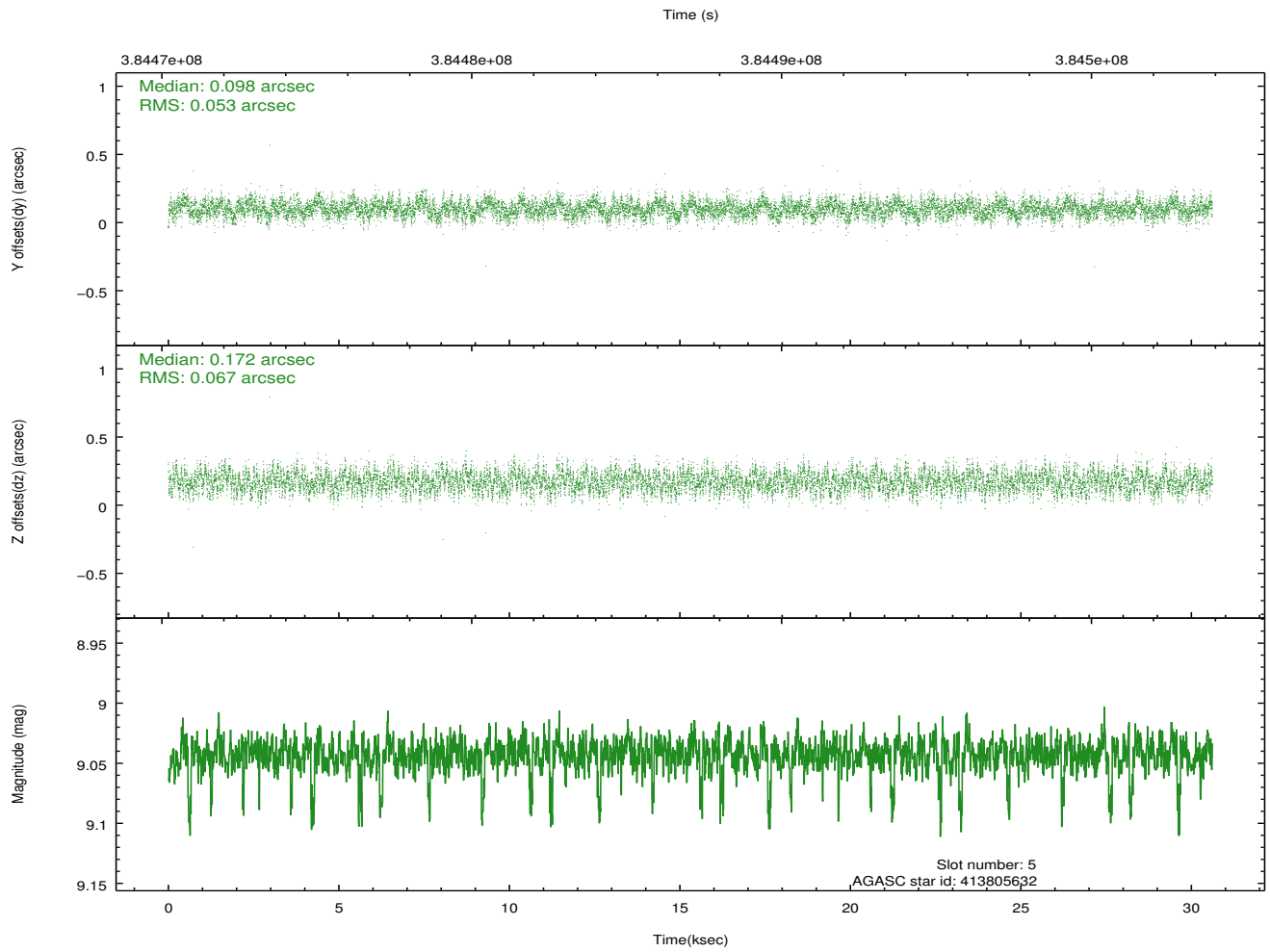
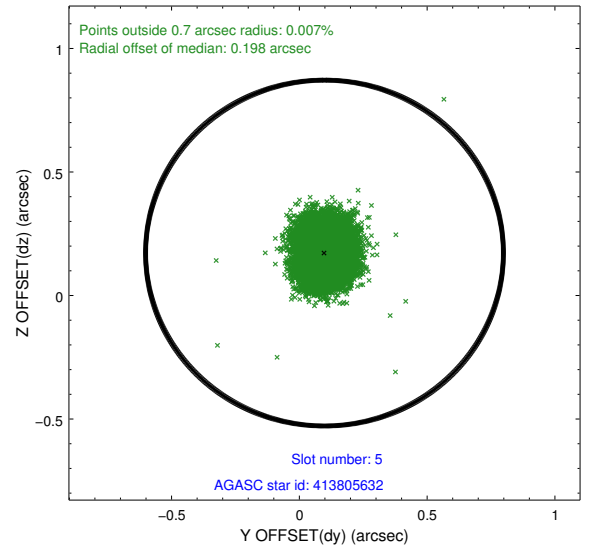
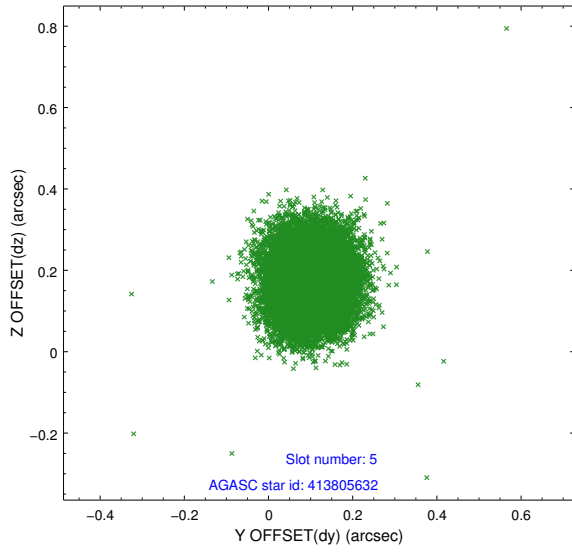
2.4.1 Slot 3



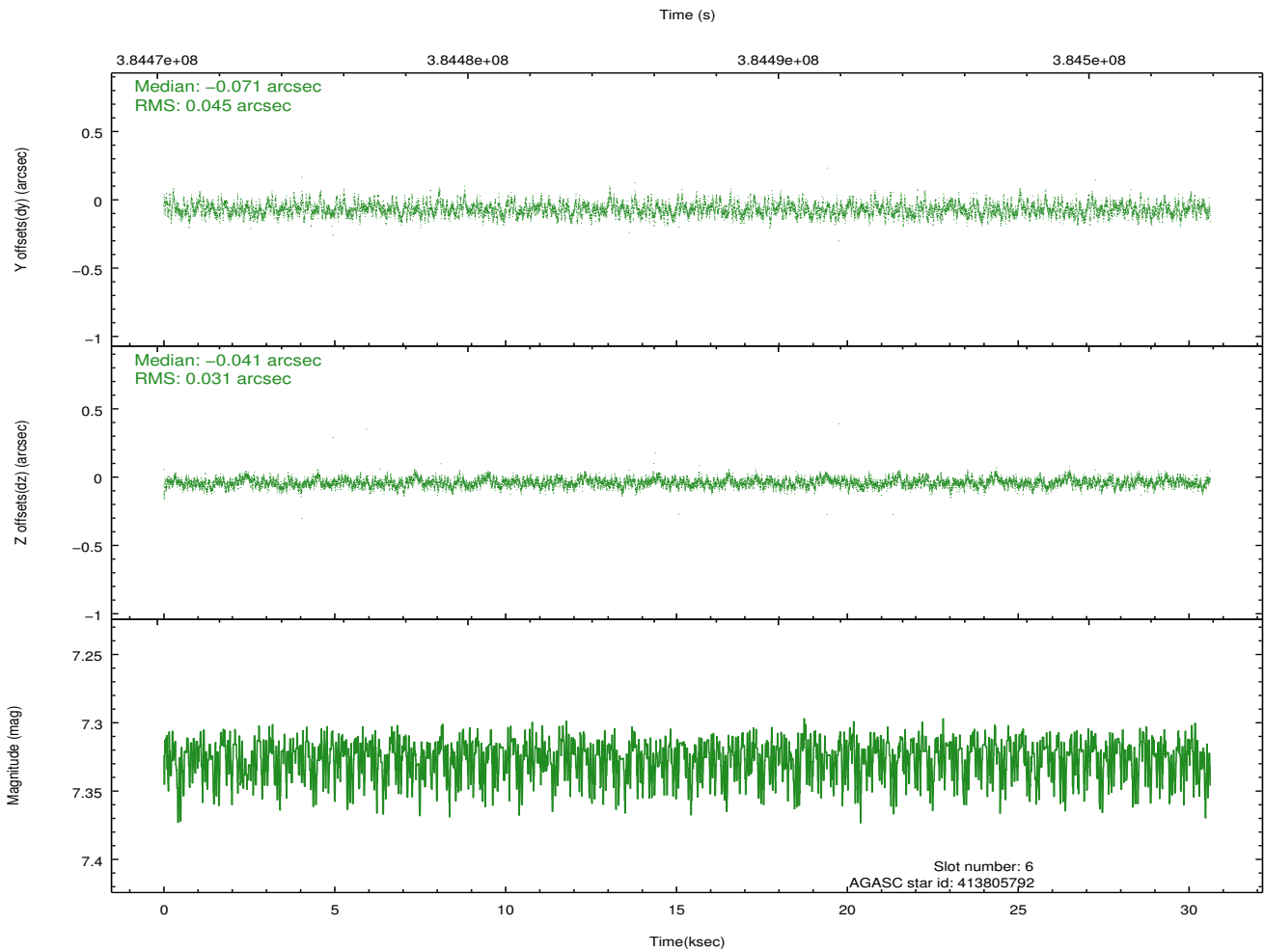
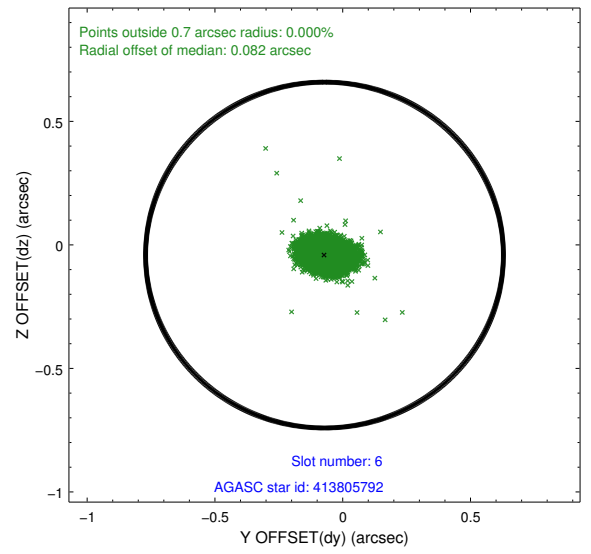
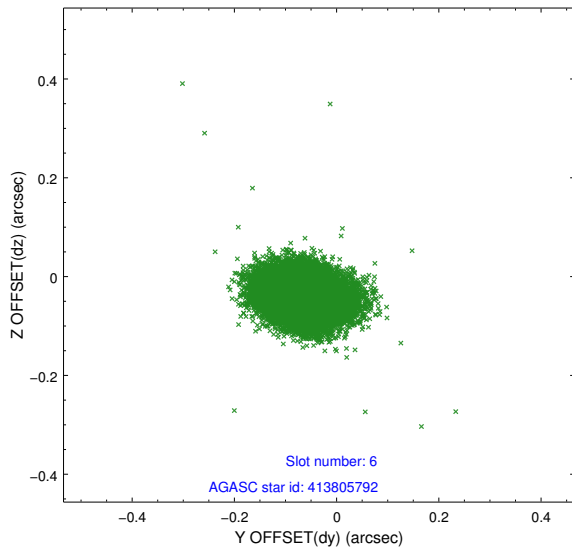
2.4.2 Slot 4



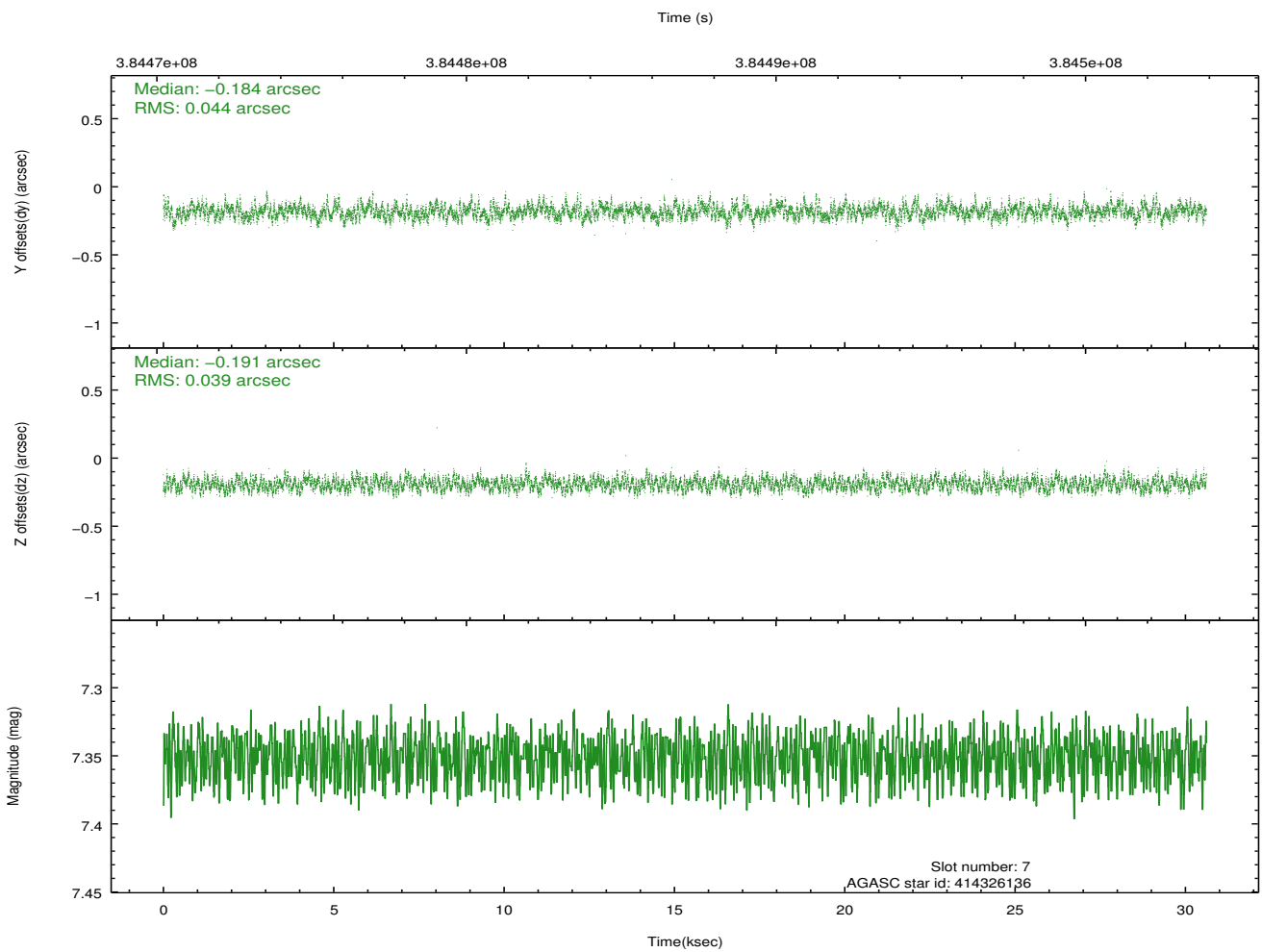
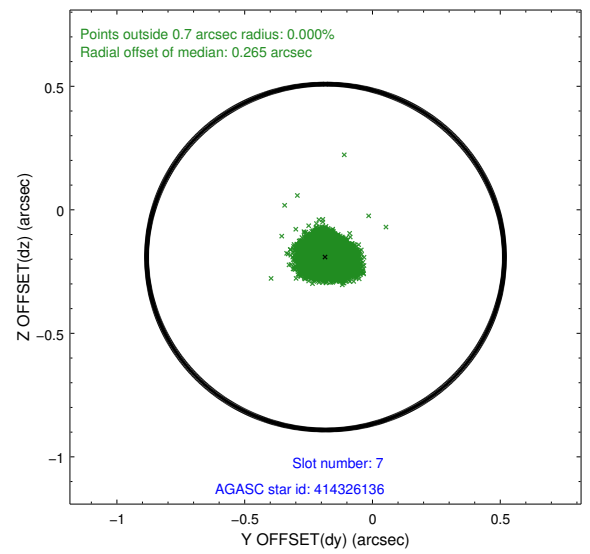
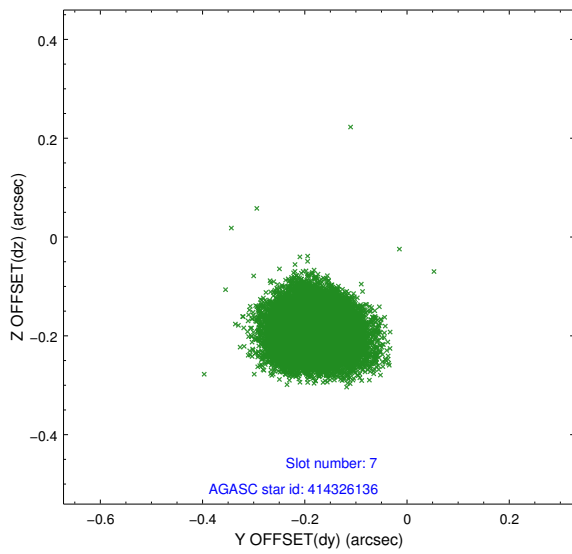
2.4.3 Slot 5



2.4.4 Slot 6

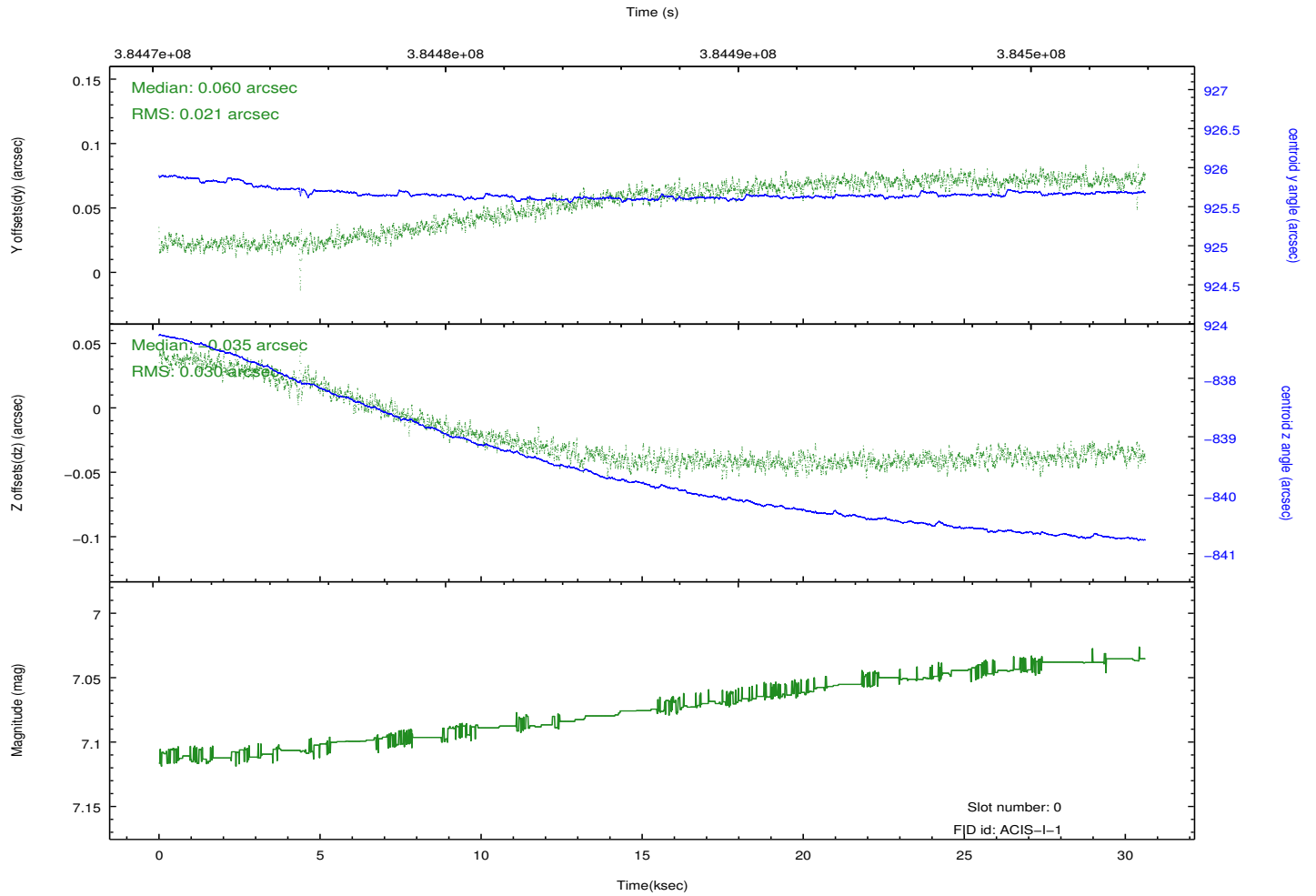
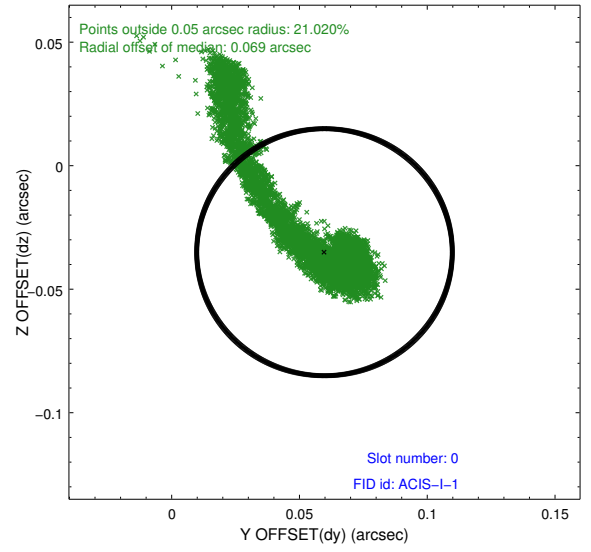
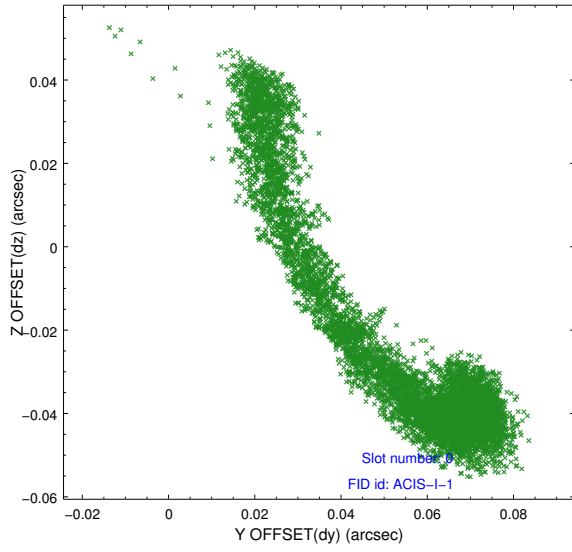


2.4.5 Slot 7

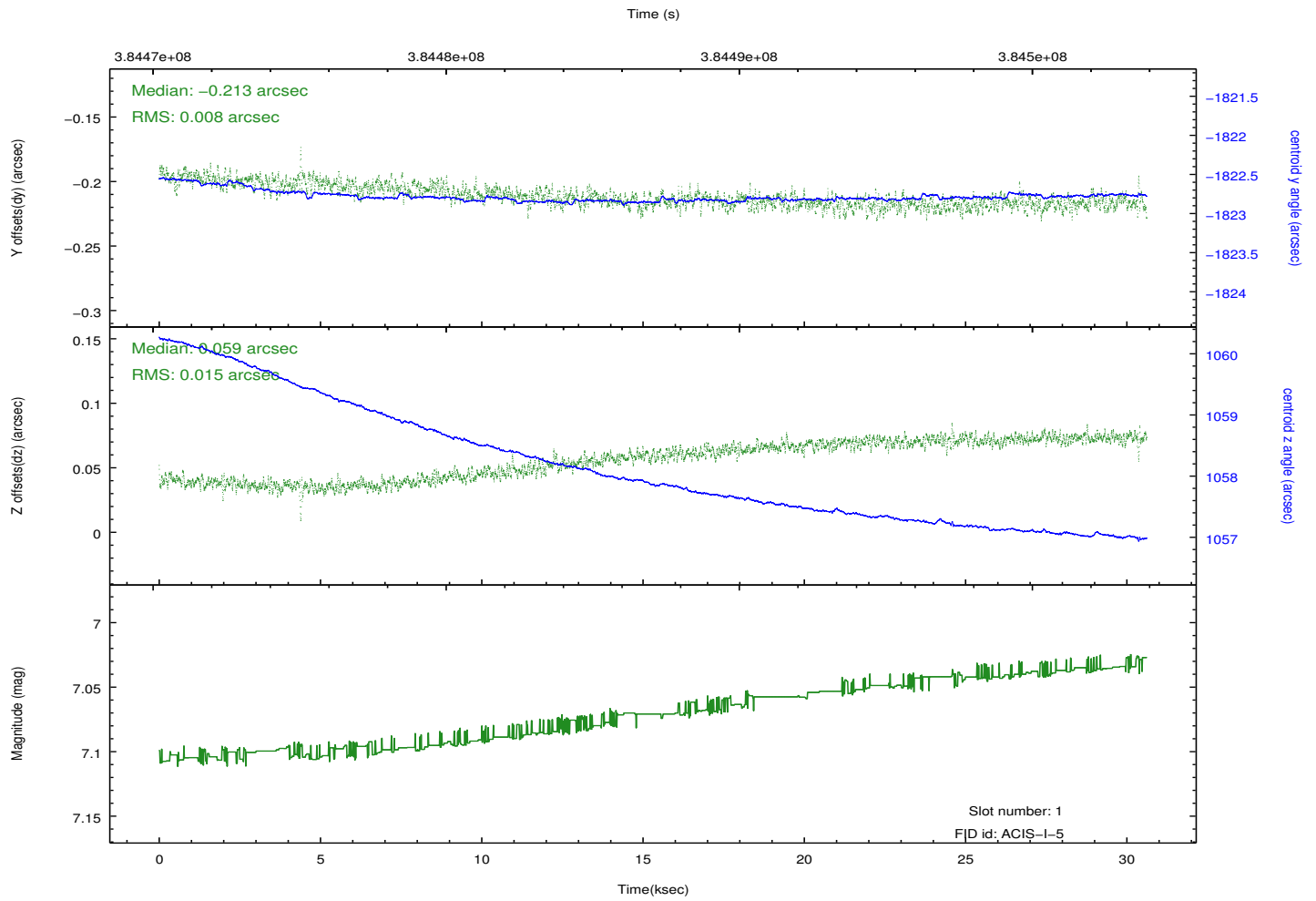
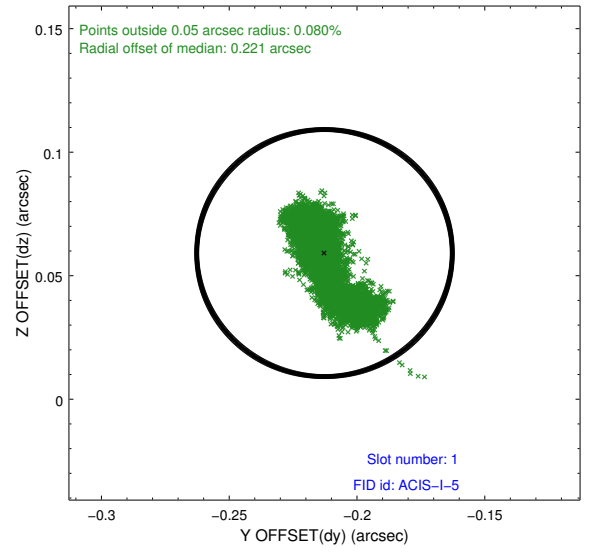
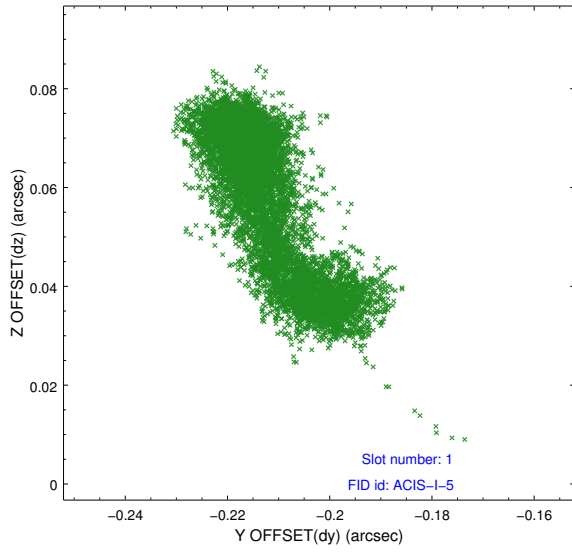


2.5 FID Slots

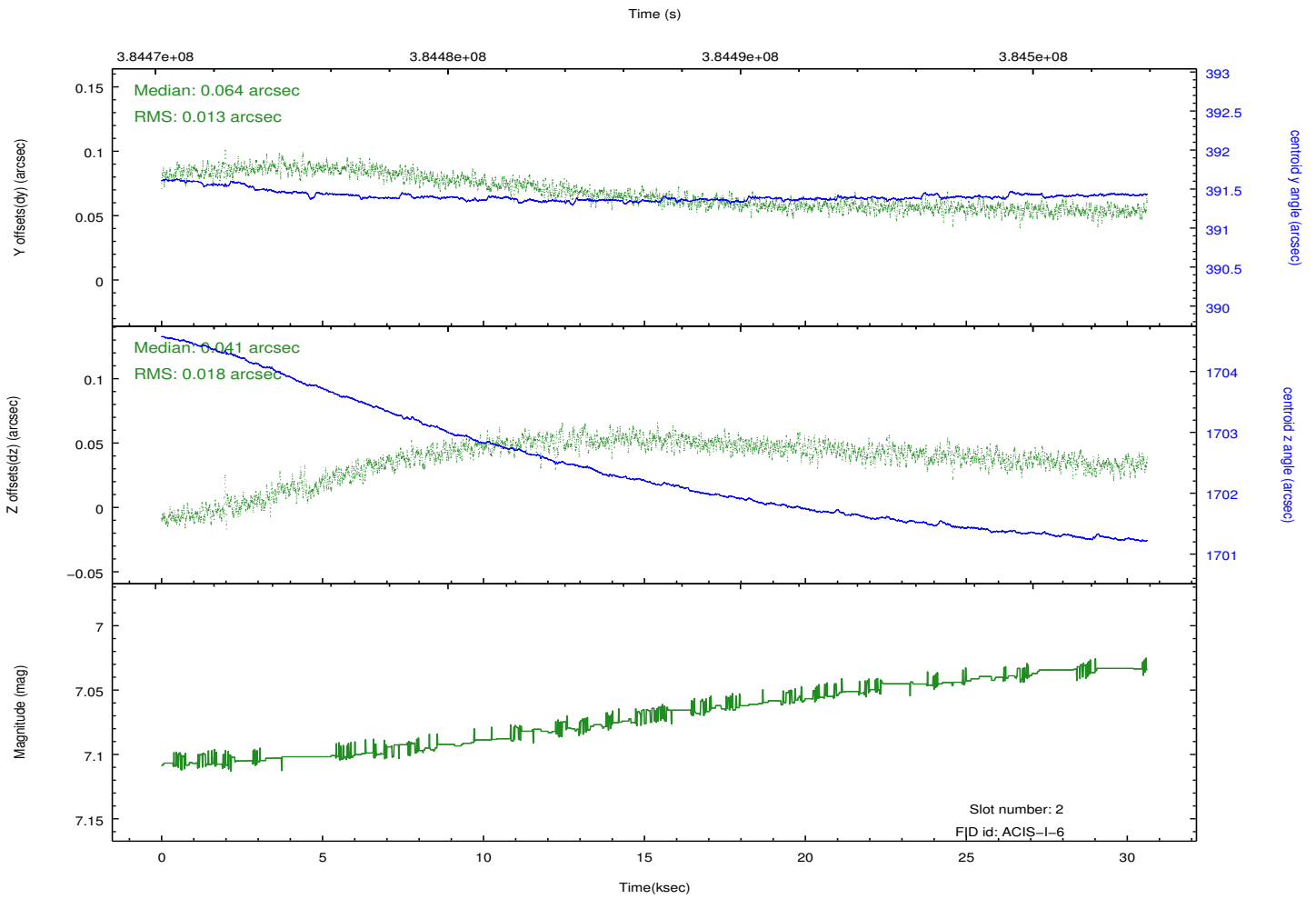
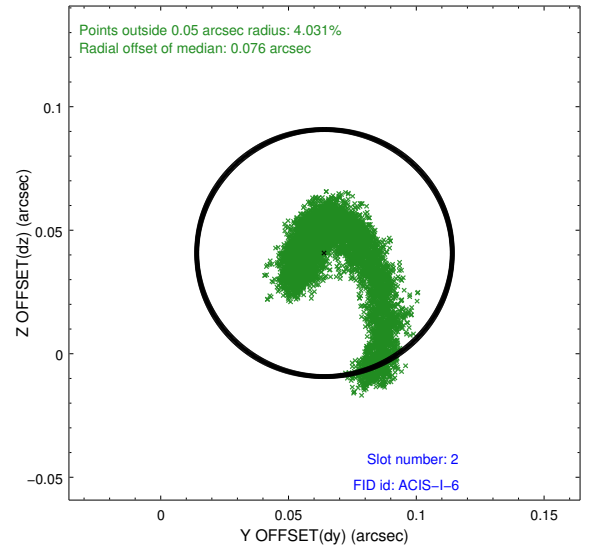
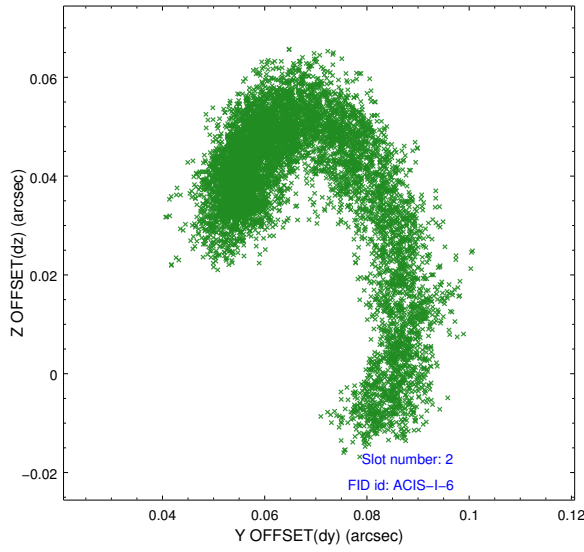
2.5.1 Slot 0



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)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.611117935359

A.2 Comments

Roll preference met.