

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10946 - L2 Version 2
Chandra X-Ray Center

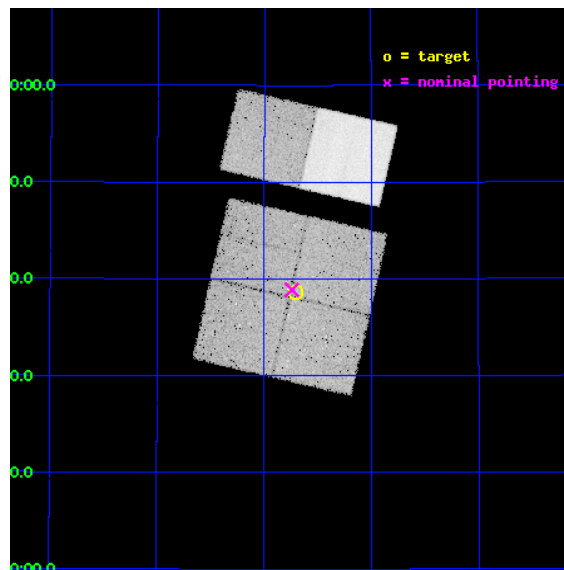
L2 Processing Date : Jun 21 2012

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1 Front

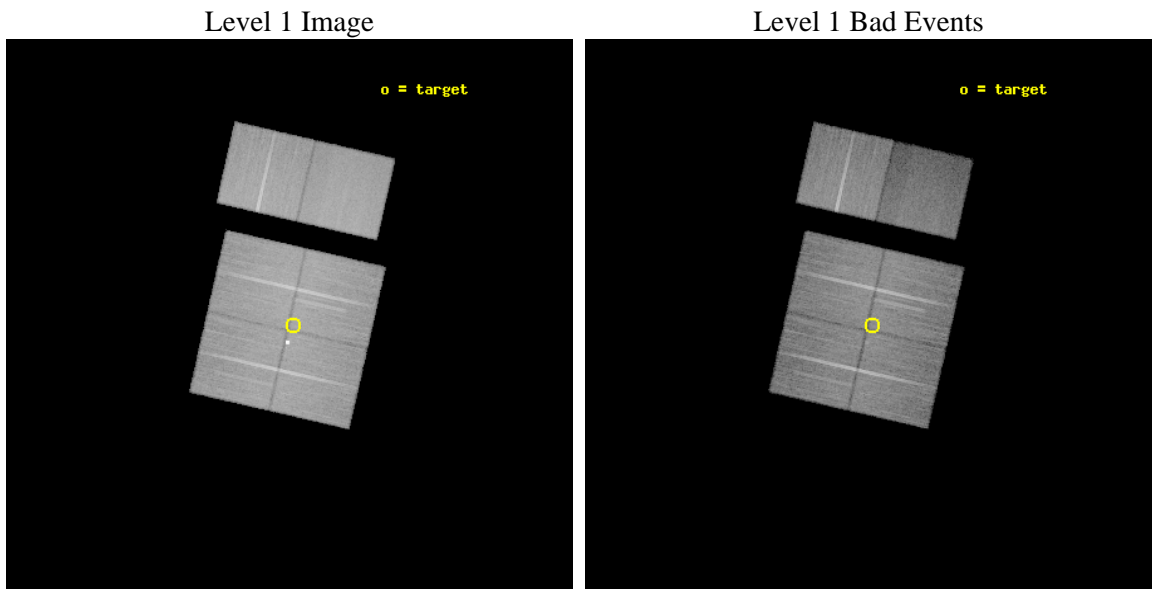
seq_num	200578	Sequence number
obs_id	10946	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.176081	Observer's specified target RA [deg]
dec_targ	41.643946	Observer's specified target Dec [deg]
ra_nom	308.18541113549	Nominal RA [deg]
dec_nom	41.647988429134	Nominal Dec [deg]
roll_nom	12.902500201592	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28662.399893284	Sum of GTIs [s]
livetime	28299.45932741	Livetime [s]
ontime0	28659.158903062	Sum of GTIs [s]
ontime1	28662.399893284	Sum of GTIs [s]
ontime2	28662.399893284	Sum of GTIs [s]
ontime3	28662.399893284	Sum of GTIs [s]
ontime6	28659.15892303	Sum of GTIs [s]
ontime7	28662.399893284	Sum of GTIs [s]
l2events	210267	Number of level 2 events



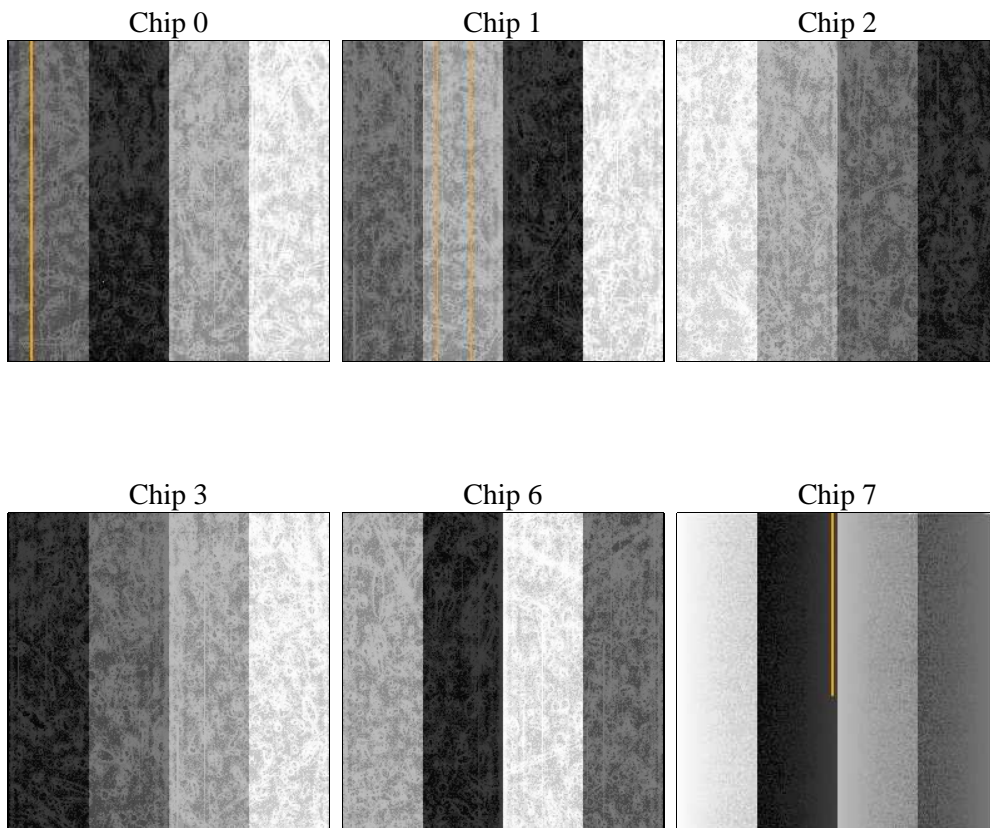
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28545.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	28662.399893284	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	28659.158903062	Sum of GTIs [s]
date	2012-06-21T01:05:49	Date and time of file creation	ontime1	28662.399893284	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	28662.399893284	Sum of GTIs [s]
			ontime3	28662.399893284	Sum of GTIs [s]
			ontime6	28659.15892303	Sum of GTIs [s]
			ontime7	28662.399893284	Sum of GTIs [s]
			l1events	1333875	Number of level 1 events

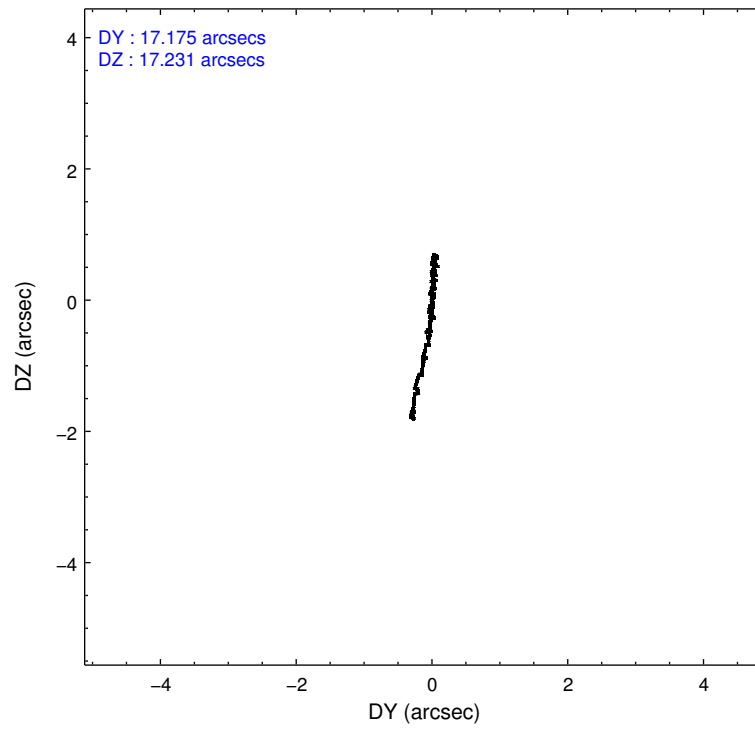
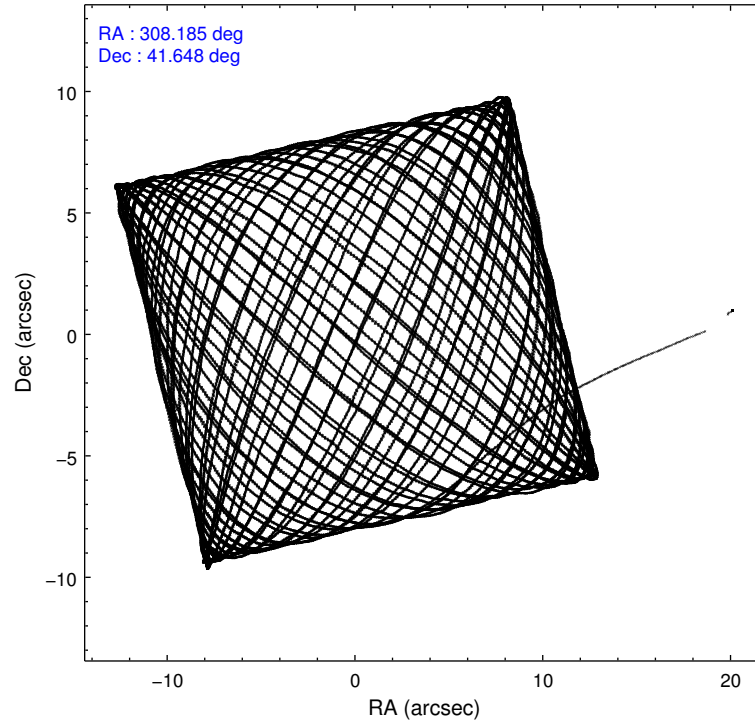
2.1.4 Events

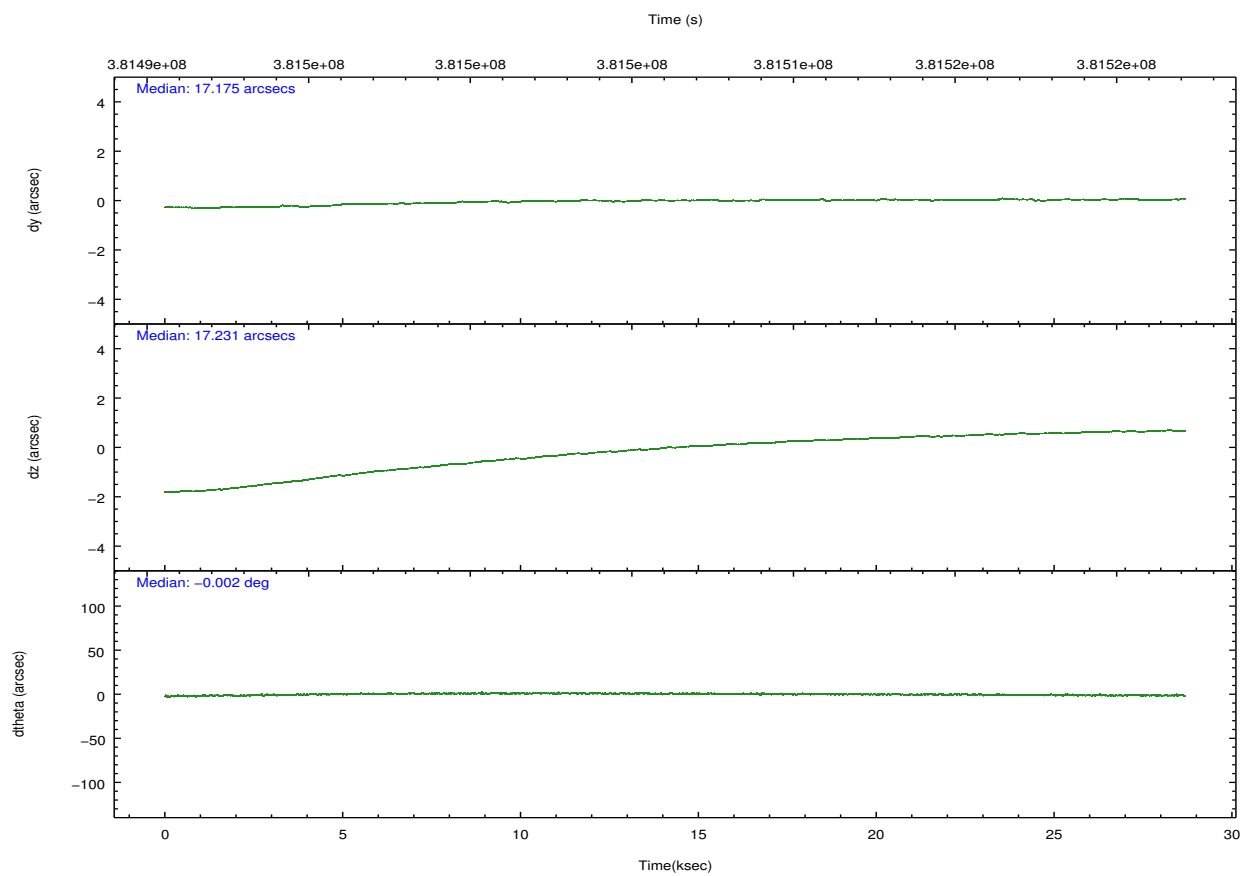
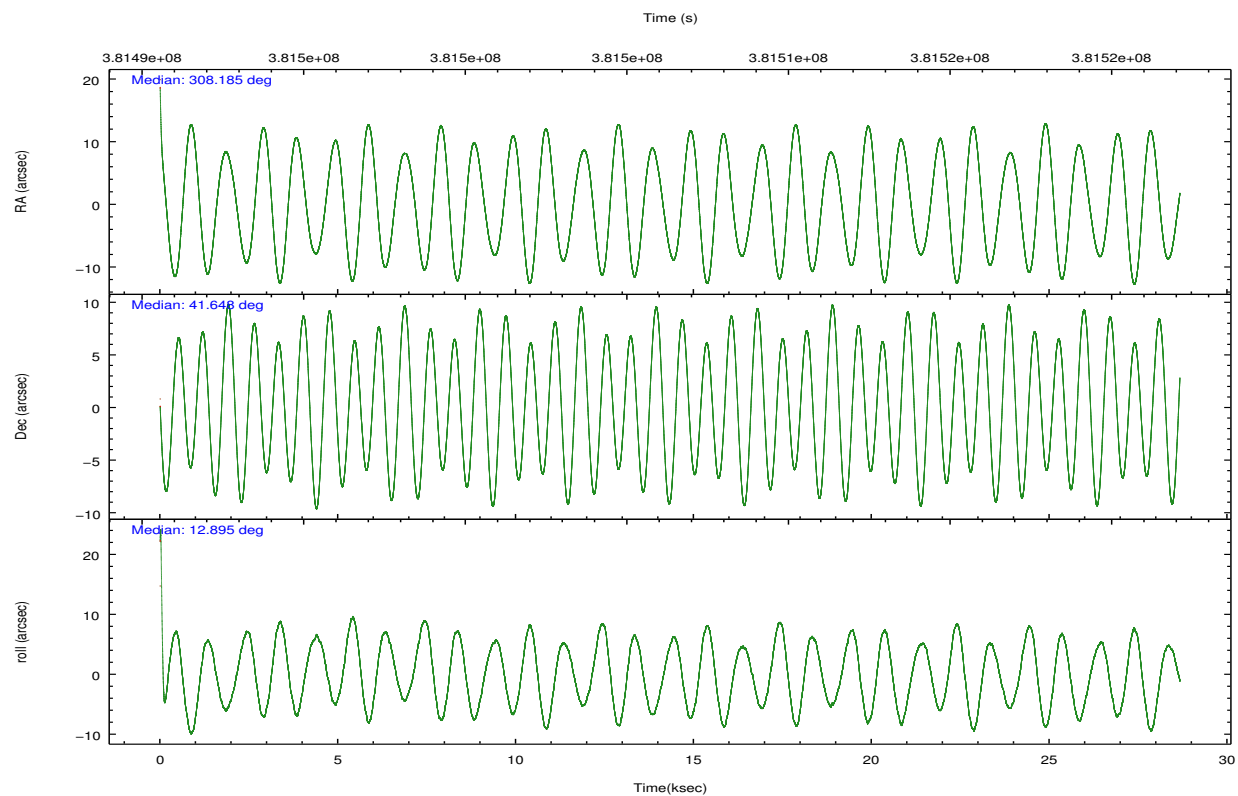
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	205388	218465	228649	226708	230809	223856	grade 0 events	9848	19309	9485	9191	9565	11245
rejected events	180310	182841	204641	203578	205638	113873		4%	8%	4%	4%	4%	5%
rejected %	87%	83%	89%	89%	89%	50%	grade 1 events	121	209	148	151	111	345
								0%	0%	0%	0%	0%	0%
							grade 2 events	5969	5938	5783	5031	5678	23640
								2%	2%	2%	2%	2%	10%
							grade 3 events	2637	2788	2381	2376	2607	10122
								1%	1%	1%	1%	1%	4%
							grade 4 events	2421	2757	2360	2357	2507	9960
								1%	1%	1%	1%	1%	4%
							grade 5 events	7075	7897	6780	8394	8341	23765
								3%	3%	2%	3%	3%	10%
							grade 6 events	4257	4914	4042	4217	4879	55252
								2%	2%	1%	1%	2%	24%
							grade 7 events	173060	174653	197670	194991	197121	89527
								84%	79%	86%	86%	85%	39%

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	308.158587	308.1854111354948	CCD I2 on	Y	Y
[deg] Pointing Dec	41.629216	41.64798842913429	CCD I3 on	Y	Y
[deg] Pointing Roll	12.711622	12.90250020159232	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)	381492134.184000	381490920.72839	CCD S5 on	N	N
Observation start date	2010-02-02T10:01:08	2010-02-02T09:42:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	381520679.184000	381521609.22994	On-chip summing requested	N	N
Observation end date	2010-02-02T17:56:53	2010-02-02T18:13:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



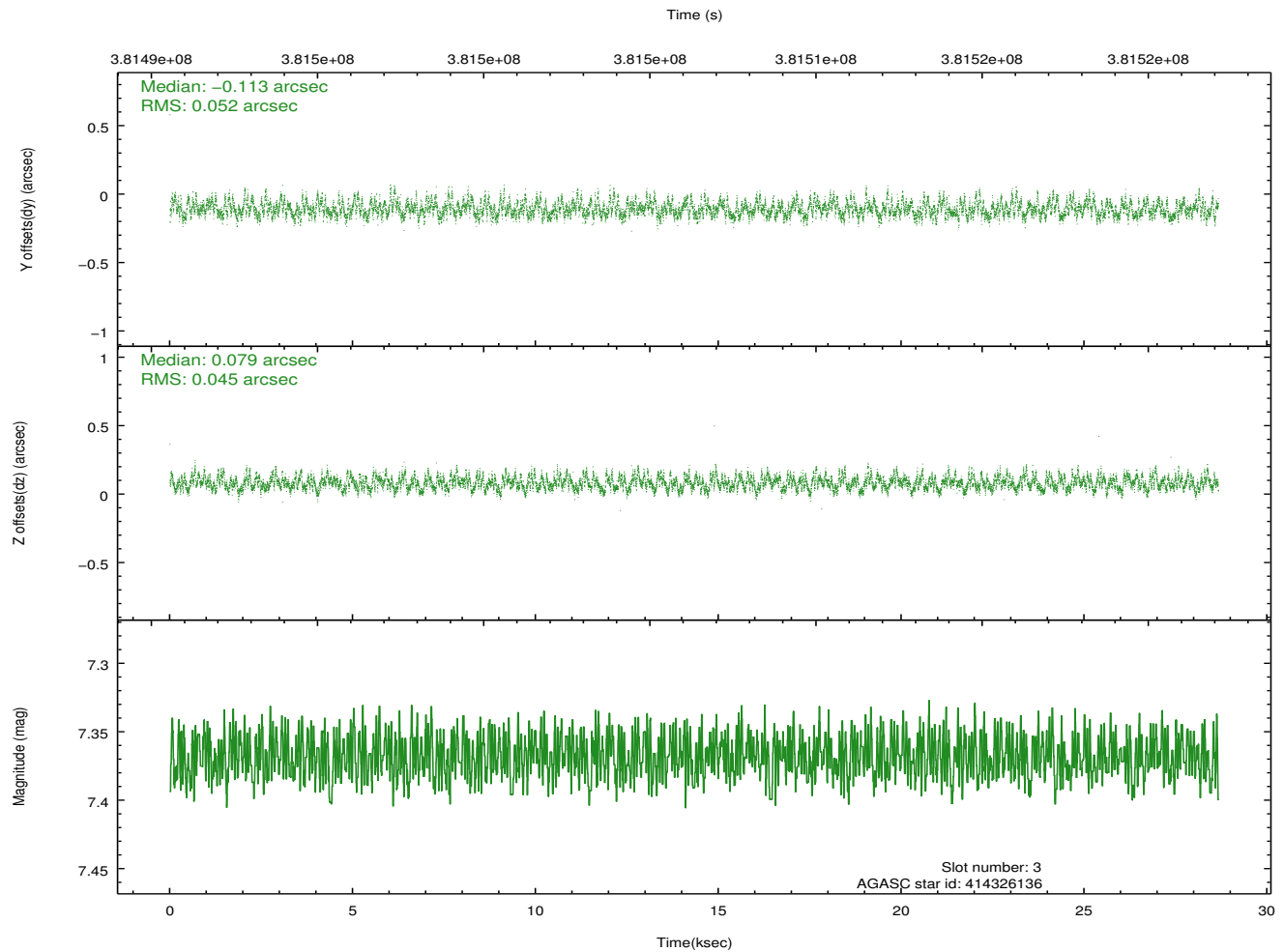
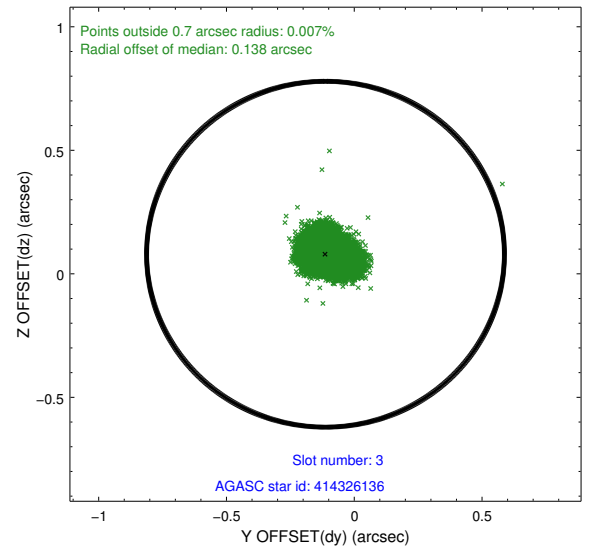
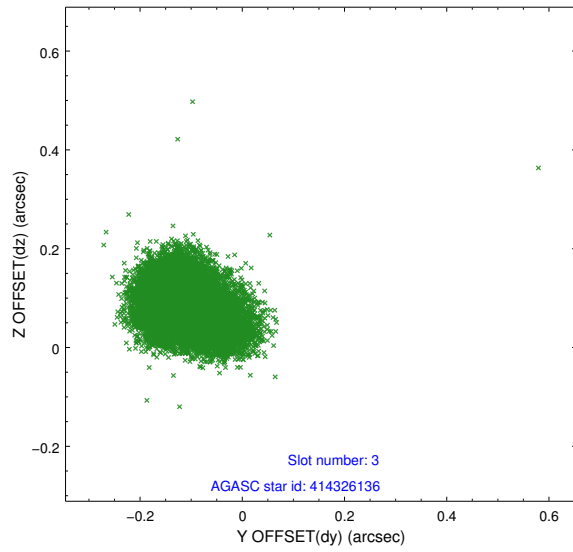


Slot Statistics

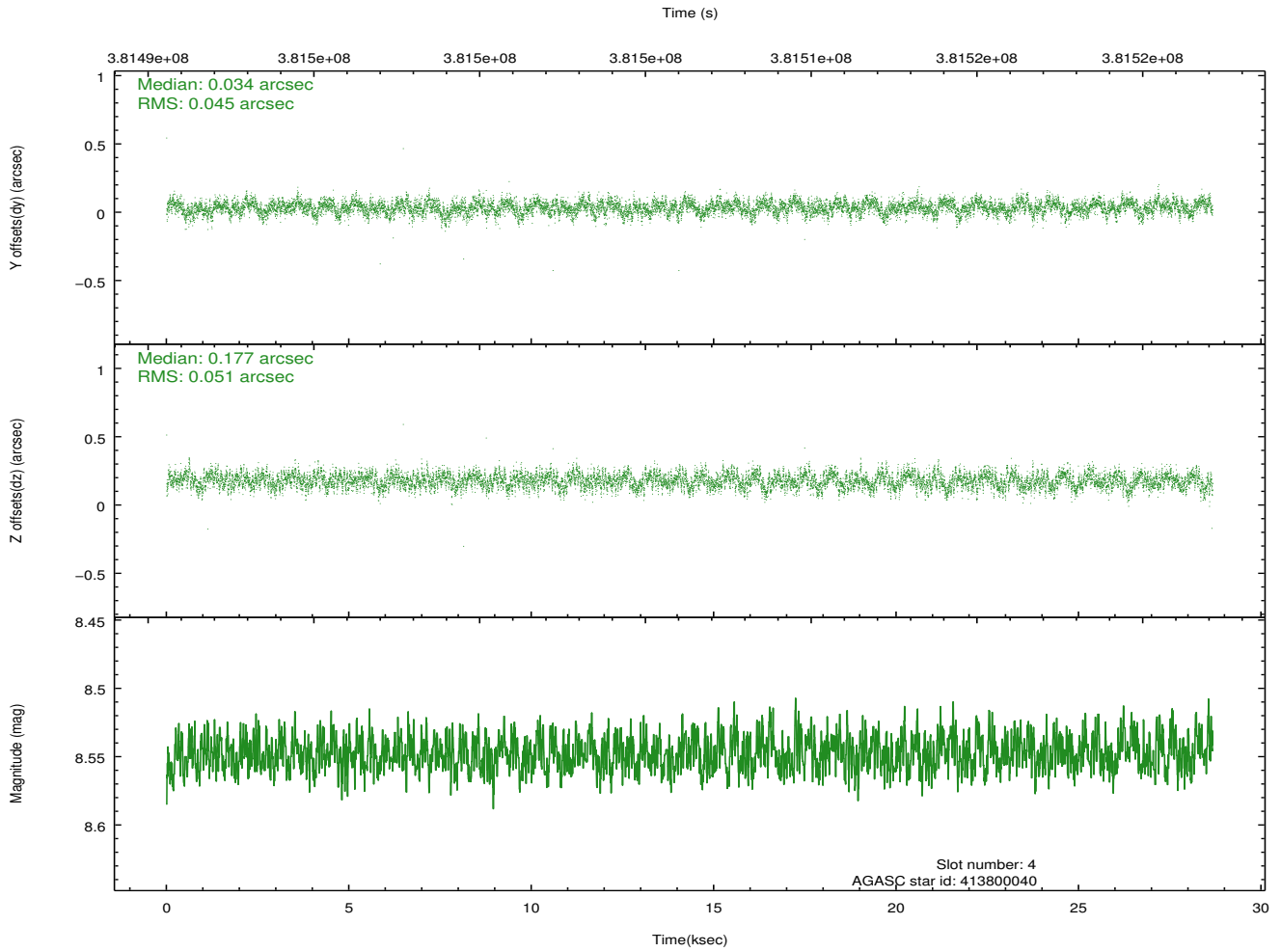
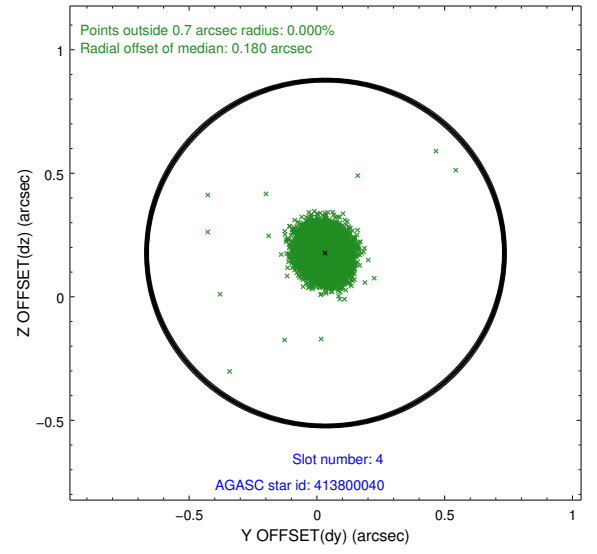
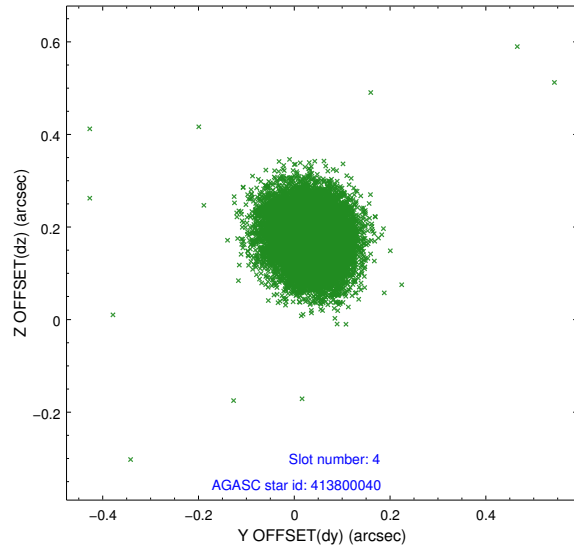
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	6990	0.043	-0.001	0.020	0.028	0.000000	0.000000	922.31	-840.66
1	FID	ACIS-I-5	7.03	6990	-0.201	0.054	0.010	0.029	0.000000	0.000000	-1825.98	1056.85
2	FID	ACIS-I-6	7.05	6993	0.067	0.018	0.020	0.031	0.000000	0.000000	387.80	1701.41
3	GUIDE	414326136	7.37	13984	-0.113	0.079	0.073	0.116	308.256176	41.473642	134.05	-603.63
4	GUIDE	413800040	8.55	13977	0.034	0.177	0.072	0.115	308.324931	40.981886	-71.01	-2372.23
5	GUIDE	414322472	8.55	13938	-0.101	-0.222	0.076	0.122	307.661586	42.199898	-840.24	2299.10
6	GUIDE	414324232	8.30	13974	0.034	-0.019	0.069	0.110	308.637806	41.996627	1542.57	1012.03
7	GUIDE	414319912	8.91	13974	0.143	-0.018	0.071	0.116	308.768330	42.373876	2173.37	2264.38

2.4 Star Slots

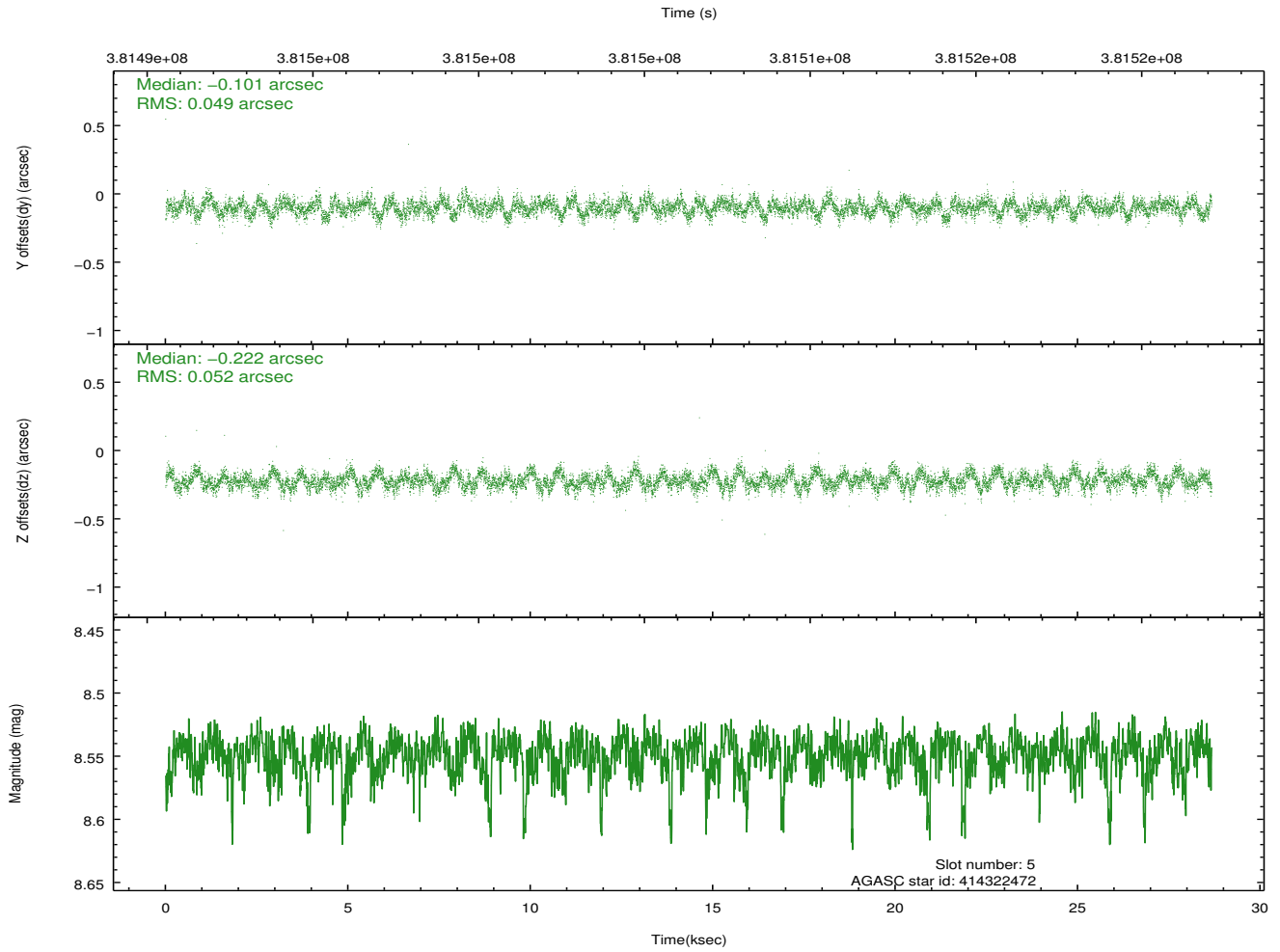
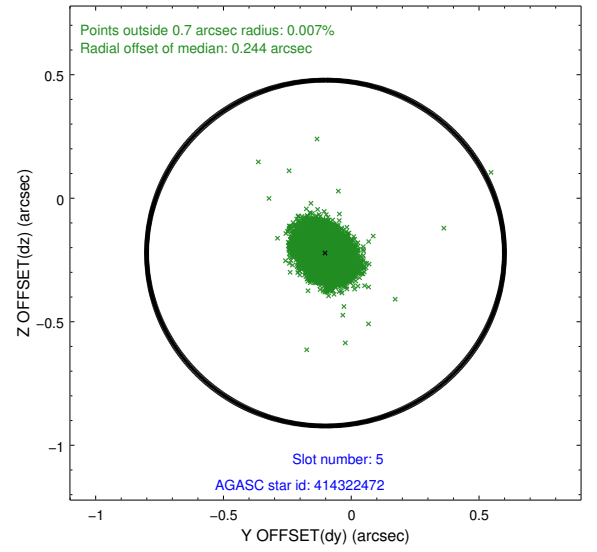
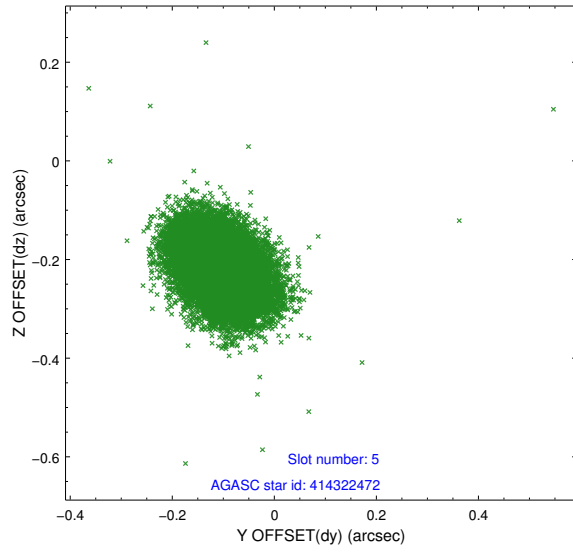
2.4.1 Slot 3



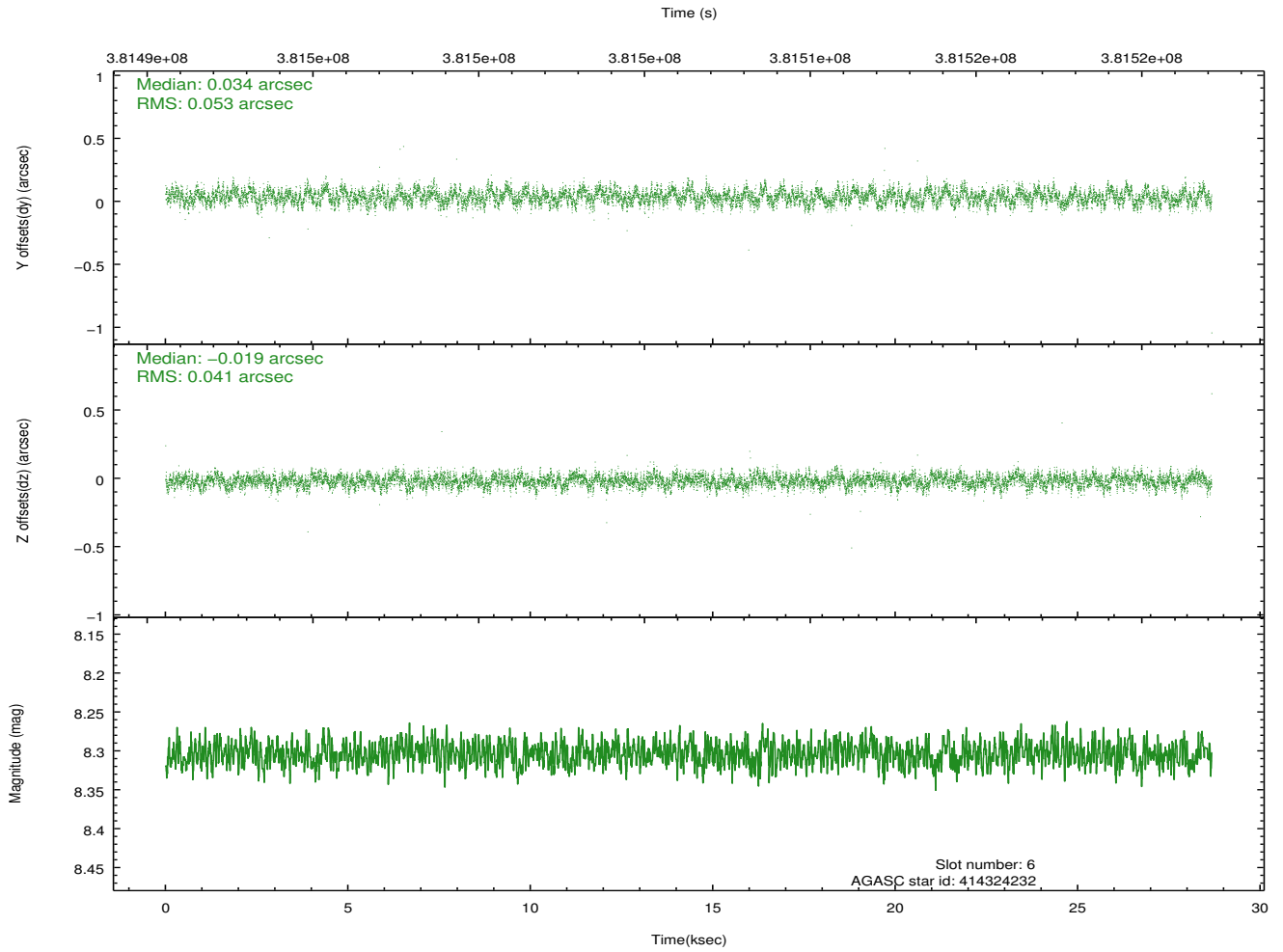
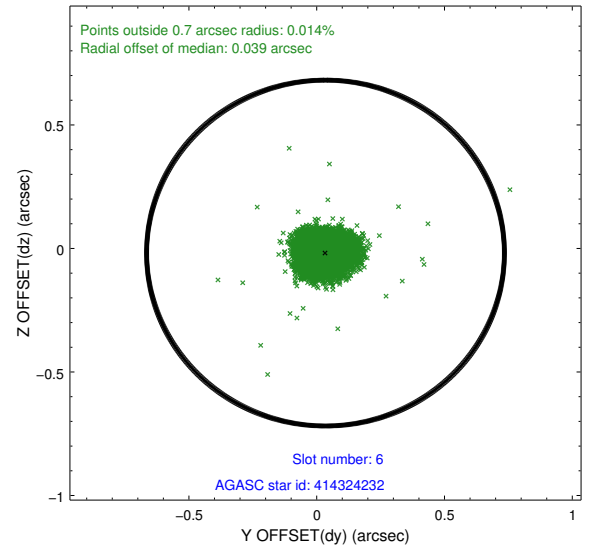
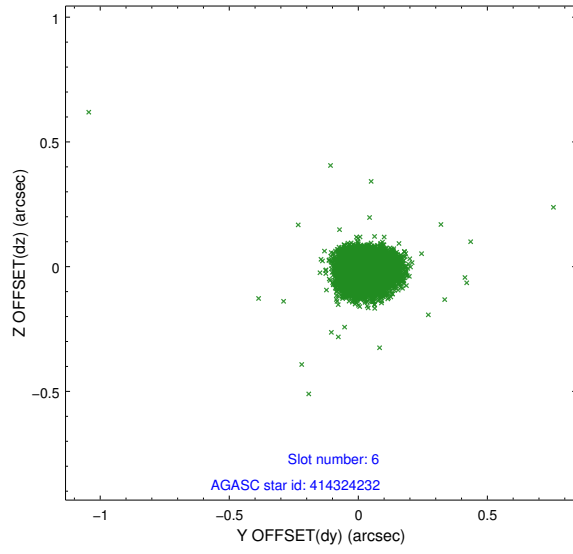
2.4.2 Slot 4



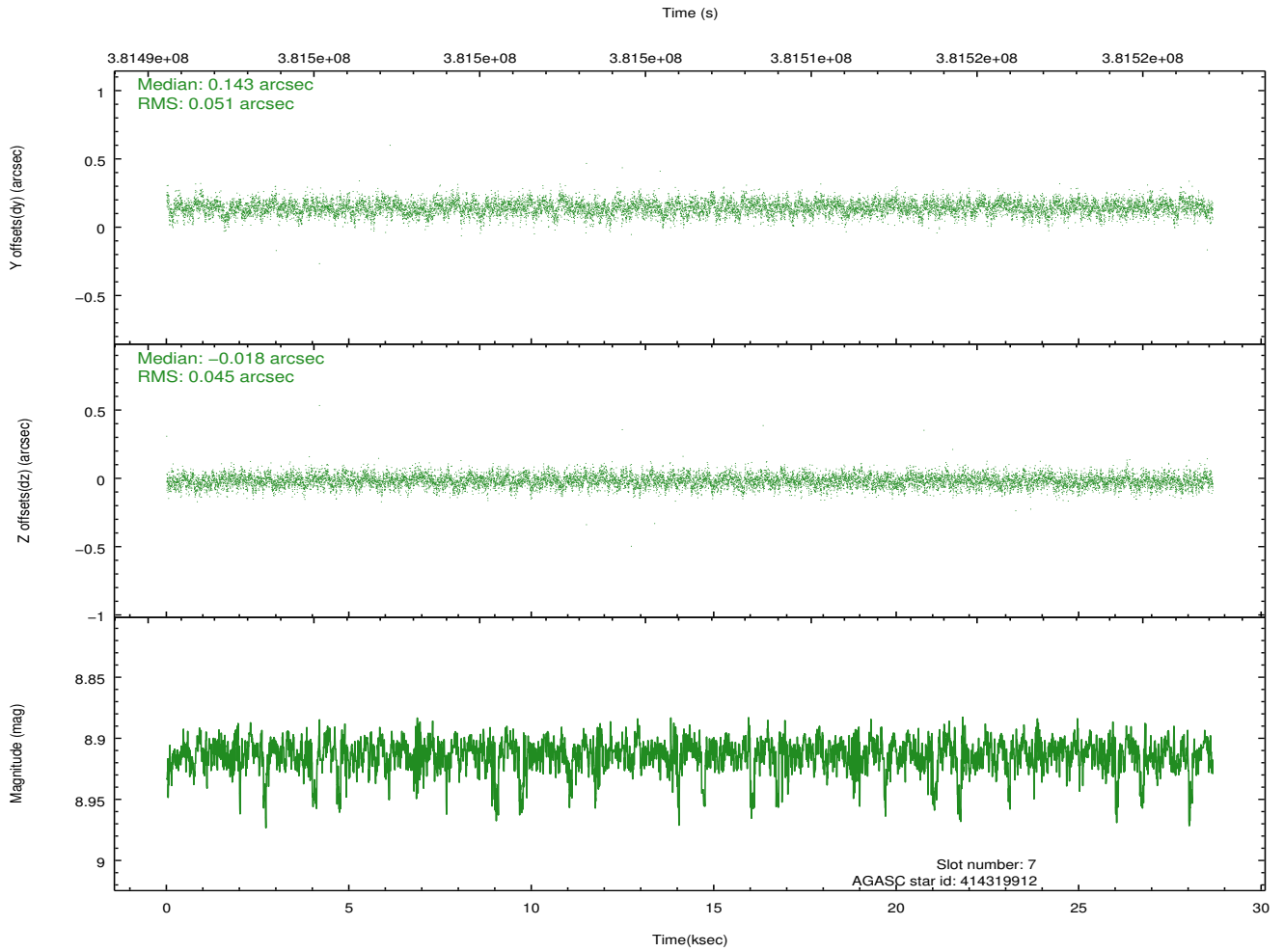
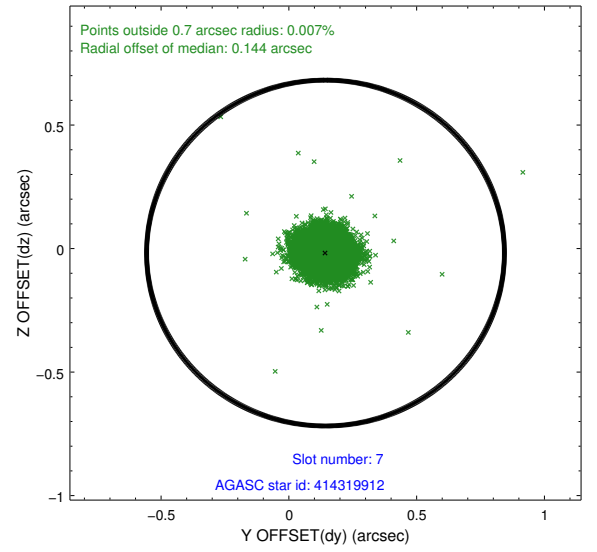
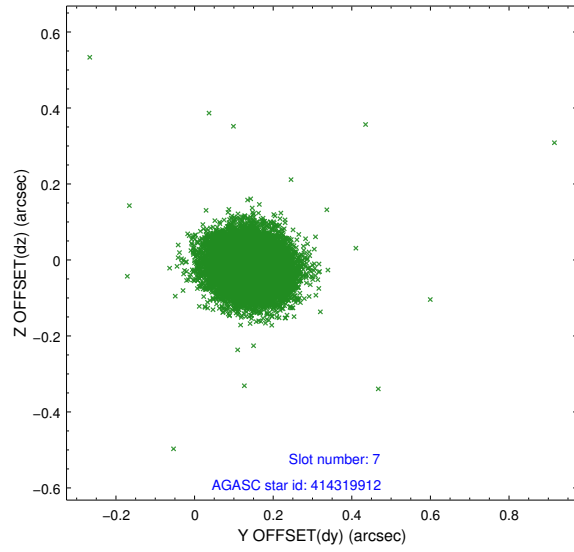
2.4.3 Slot 5



2.4.4 Slot 6

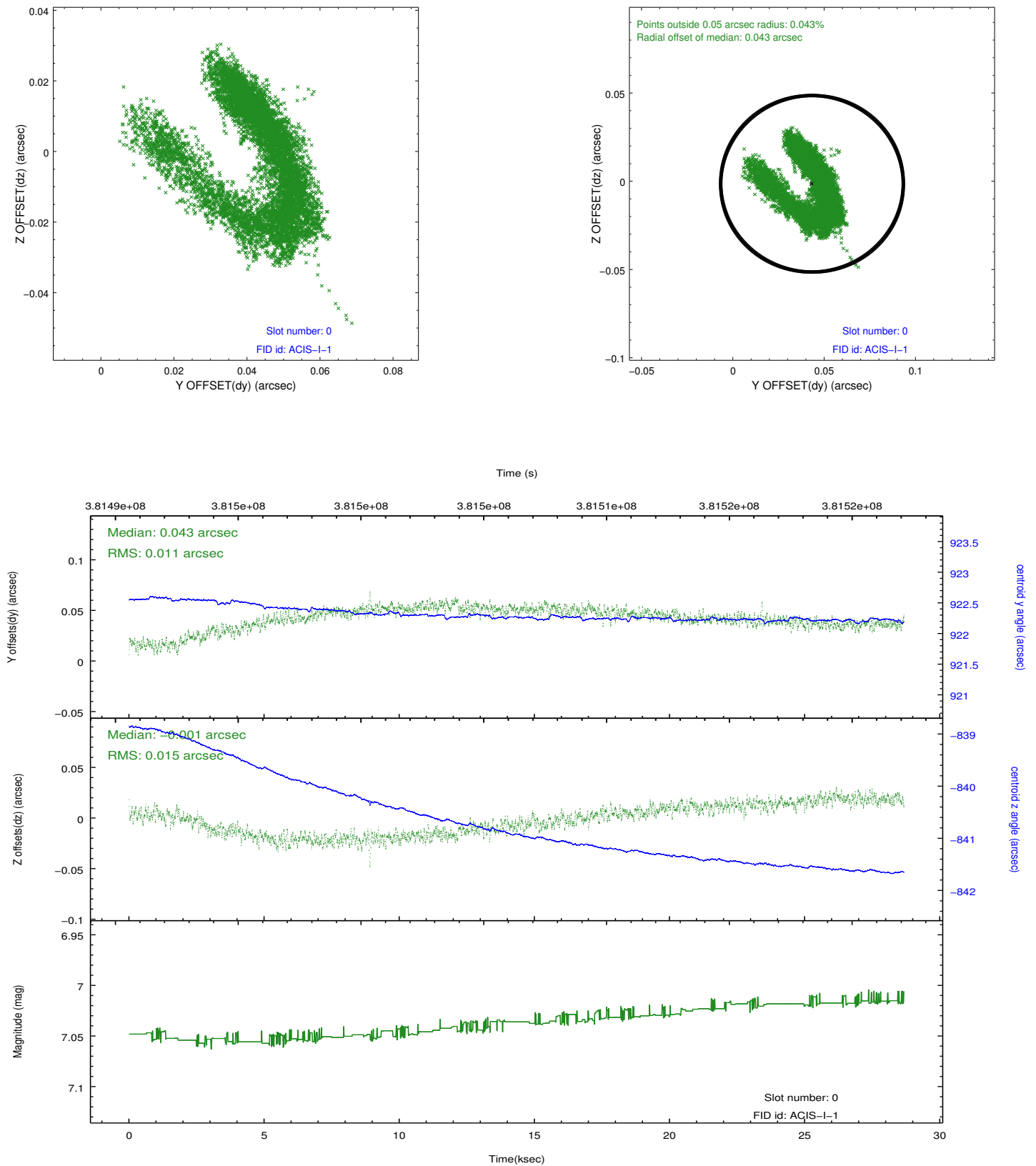


2.4.5 Slot 7

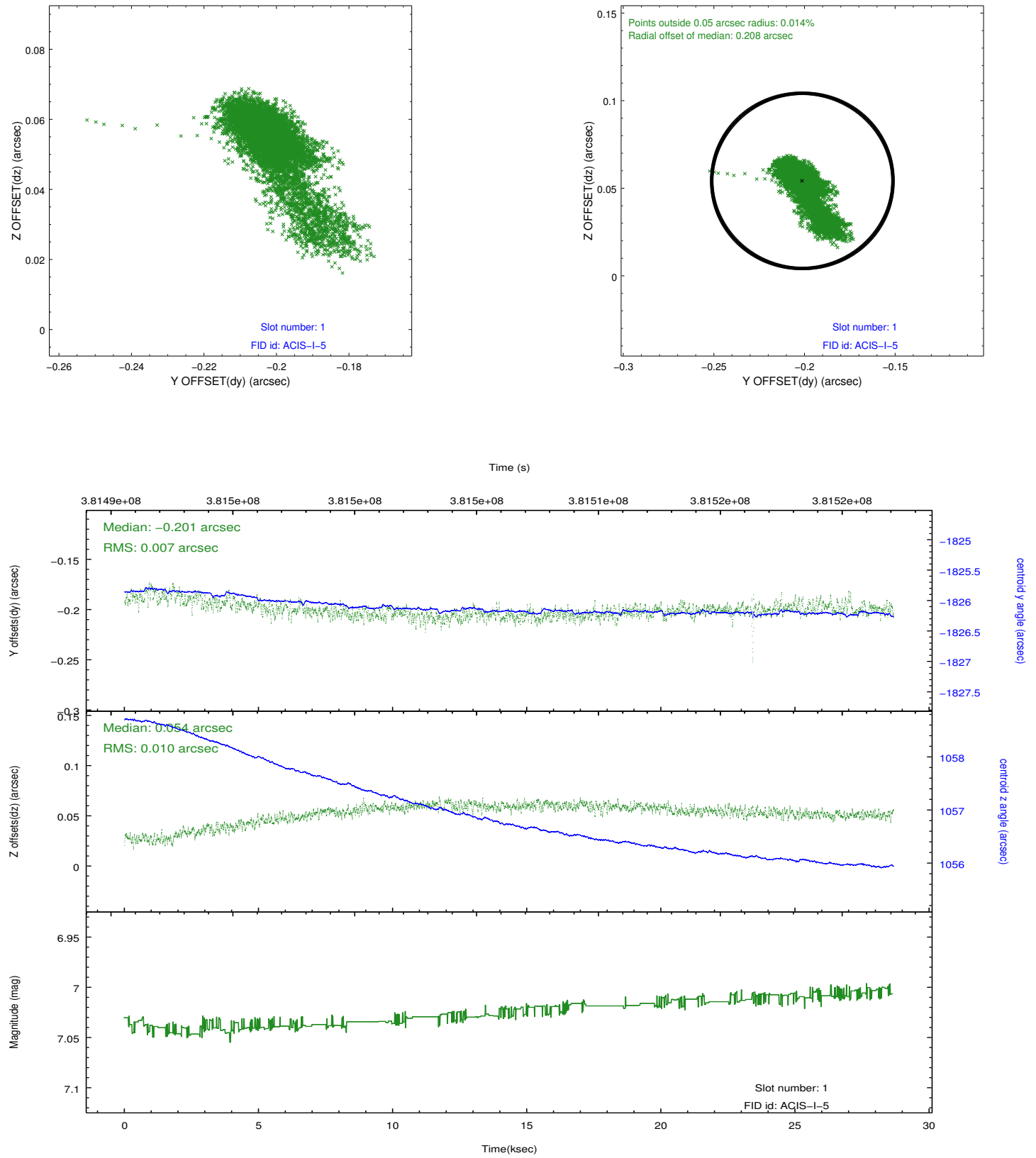


2.5 FID Slots

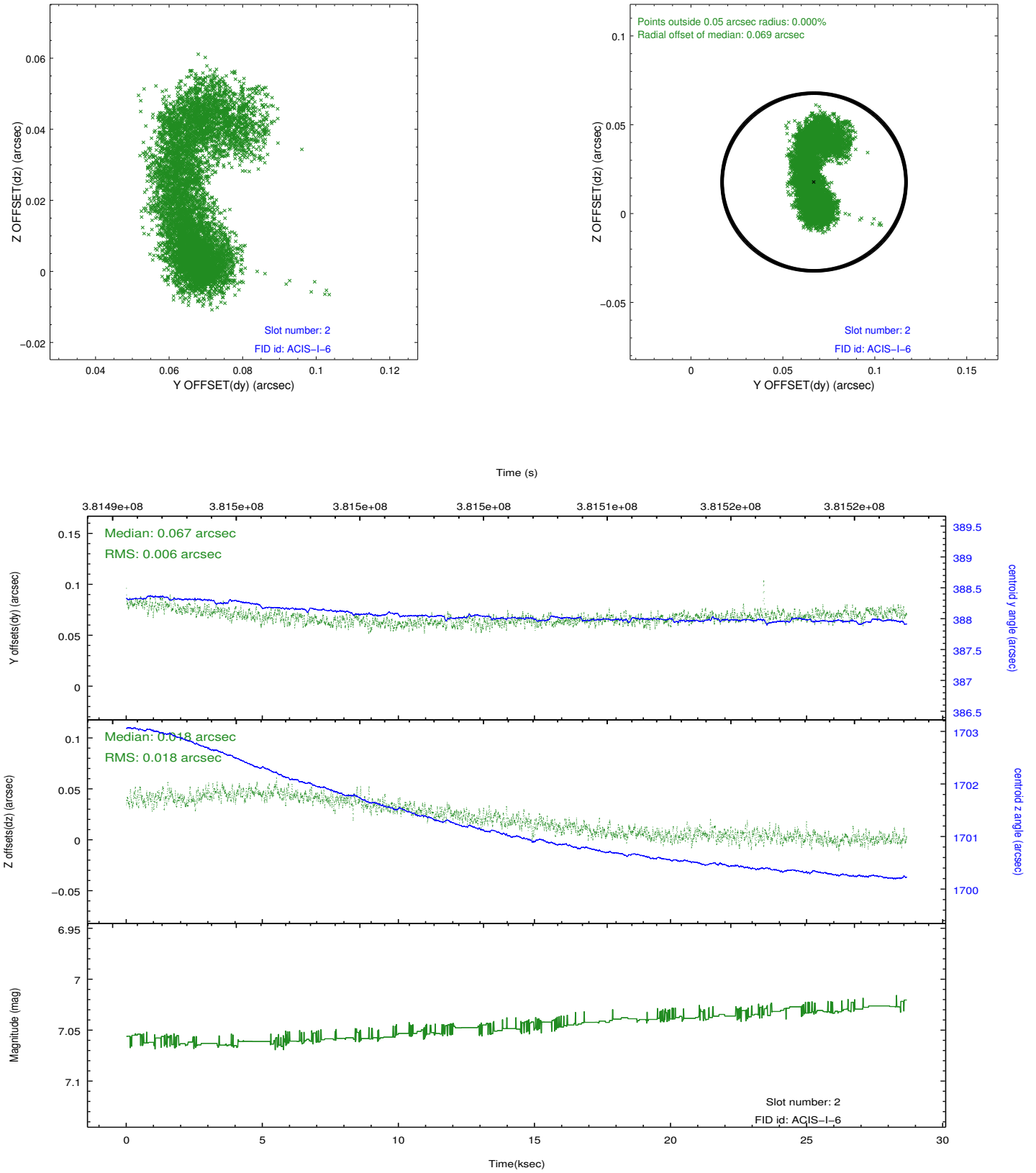
2.5.1 Slot 0



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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.662399893284

A.2 Comments

Preferred roll angle met.