

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10986 - L2 Version 2
Chandra X-Ray Center

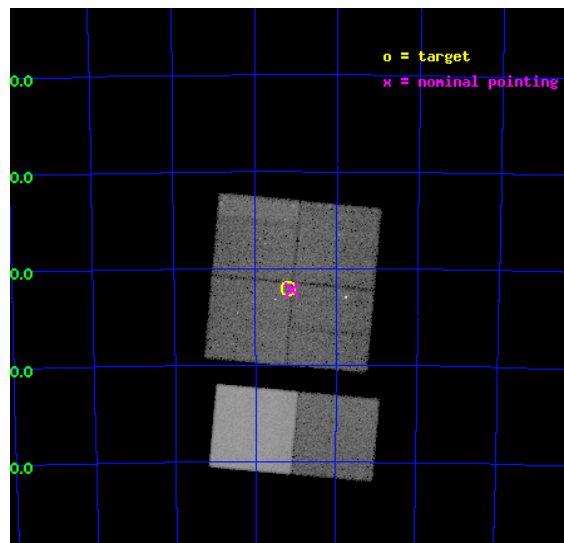
L2 Processing Date : Jun 23 2012

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1 Front

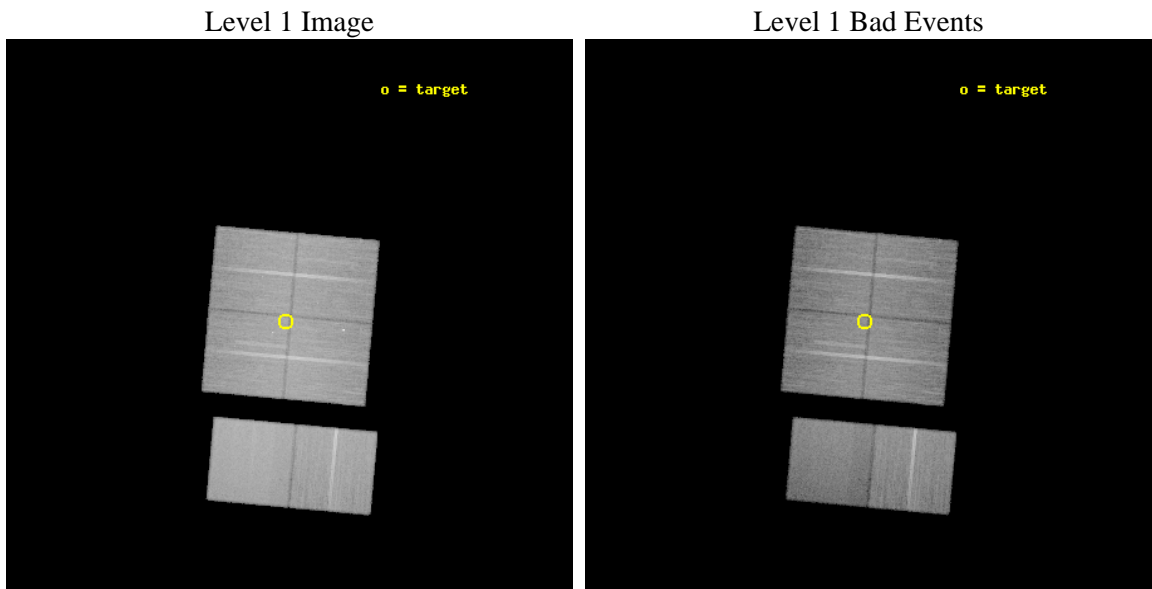
seq_num	200617	Sequence number
obs_id	10986	Observation id
title	Cosmic archaeology with Chandra: from a supergiant shell to young stellar objects in NGC 602	Proposal title
observer	Dr. Lidia Oskinova	Principal investigator
object	NGC 602	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	22.301667	Observer's specified target RA [deg]
dec_targ	-73.533806	Observer's specified target Dec [deg]
ra_nom	22.275268977396	Nominal RA [deg]
dec_nom	-73.536888184182	Nominal Dec [deg]
roll_nom	185.18336707198	Nominal Roll [deg]
revision	2	Processing version of data
ontime	34051.199873209	Sum of GTIs [s]
livetime	33620.023077243	Livetime [s]
ontime0	34047.958902955	Sum of GTIs [s]
ontime1	34051.199873209	Sum of GTIs [s]
ontime2	34051.199873209	Sum of GTIs [s]
ontime3	34051.199873209	Sum of GTIs [s]
ontime6	34051.199873209	Sum of GTIs [s]
ontime7	34051.199873209	Sum of GTIs [s]
l2events	254743	Number of level 2 events



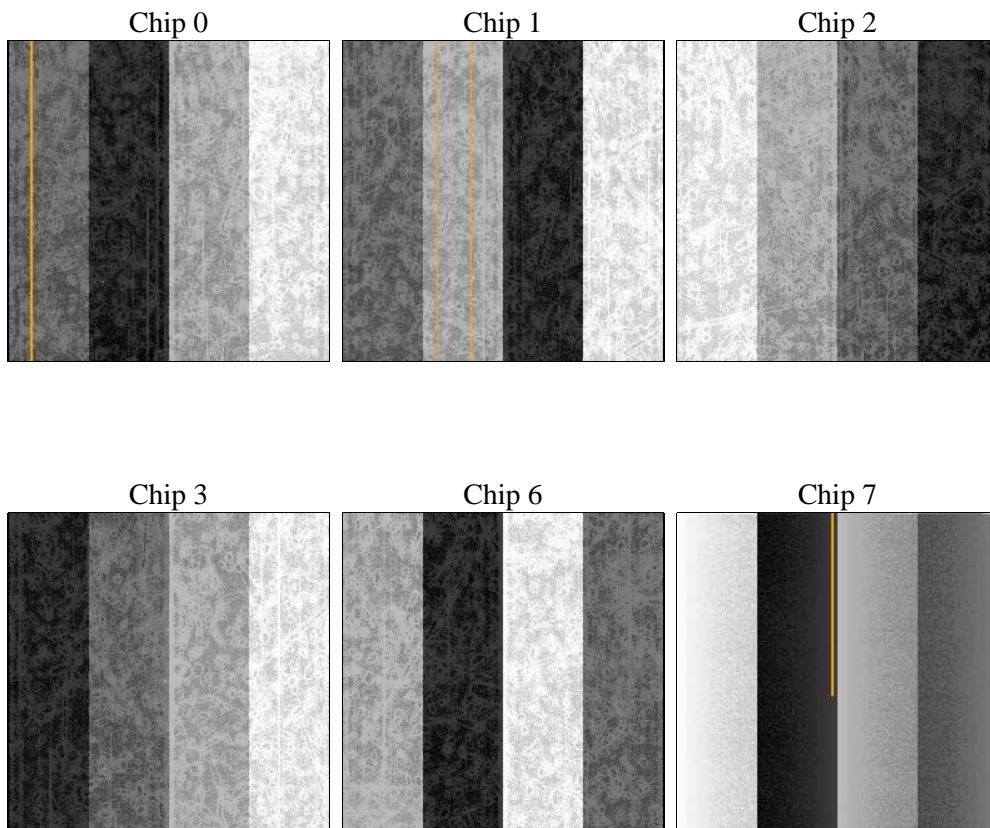
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	34051.199873209	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	34047.958902955	Sum of GTIs [s]
date	2012-06-23T21:08:47	Date and time of file creation	ontime1	34051.199873209	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	34051.199873209	Sum of GTIs [s]
			ontime3	34051.199873209	Sum of GTIs [s]
			ontime6	34051.199873209	Sum of GTIs [s]
			ontime7	34051.199873209	Sum of GTIs [s]
			l1events	1552835	Number of level 1 events

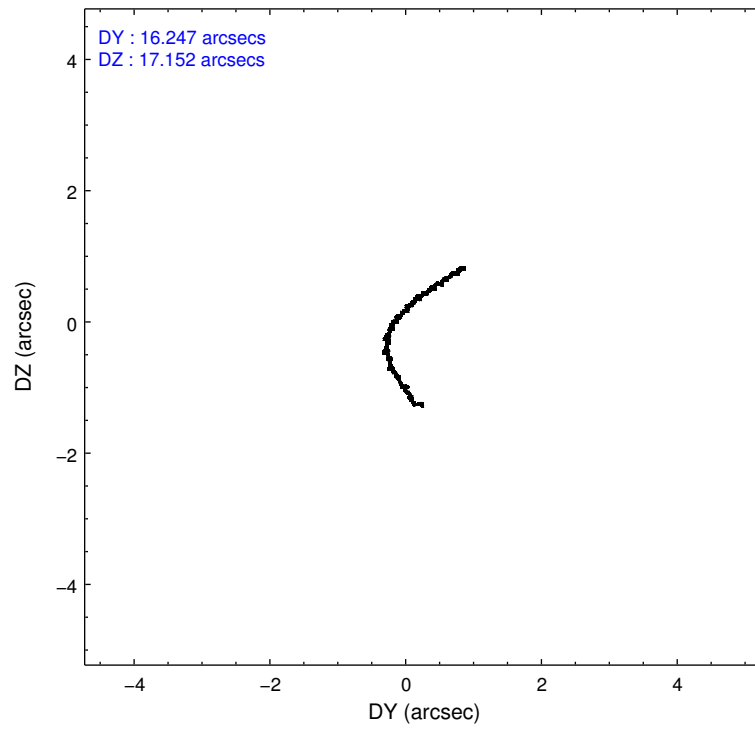
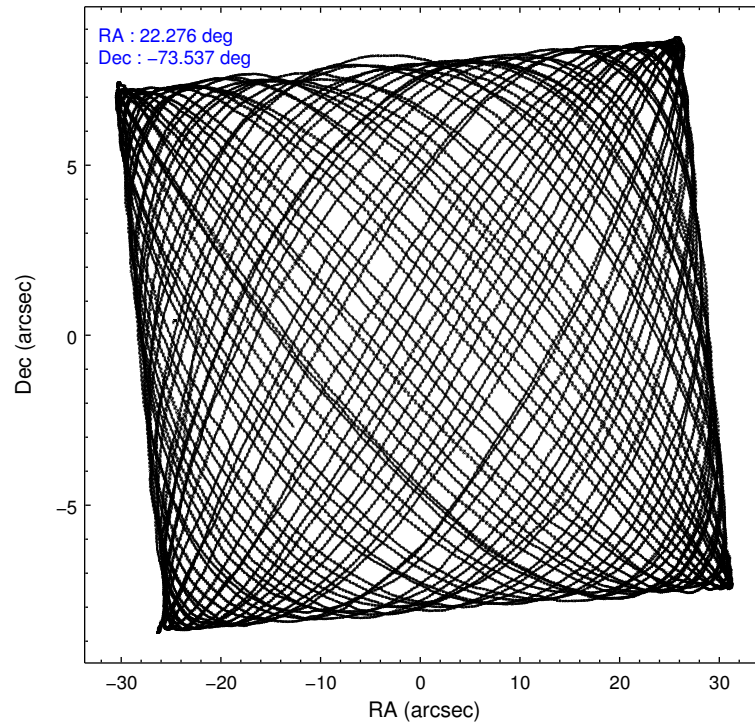
2.1.4 Events

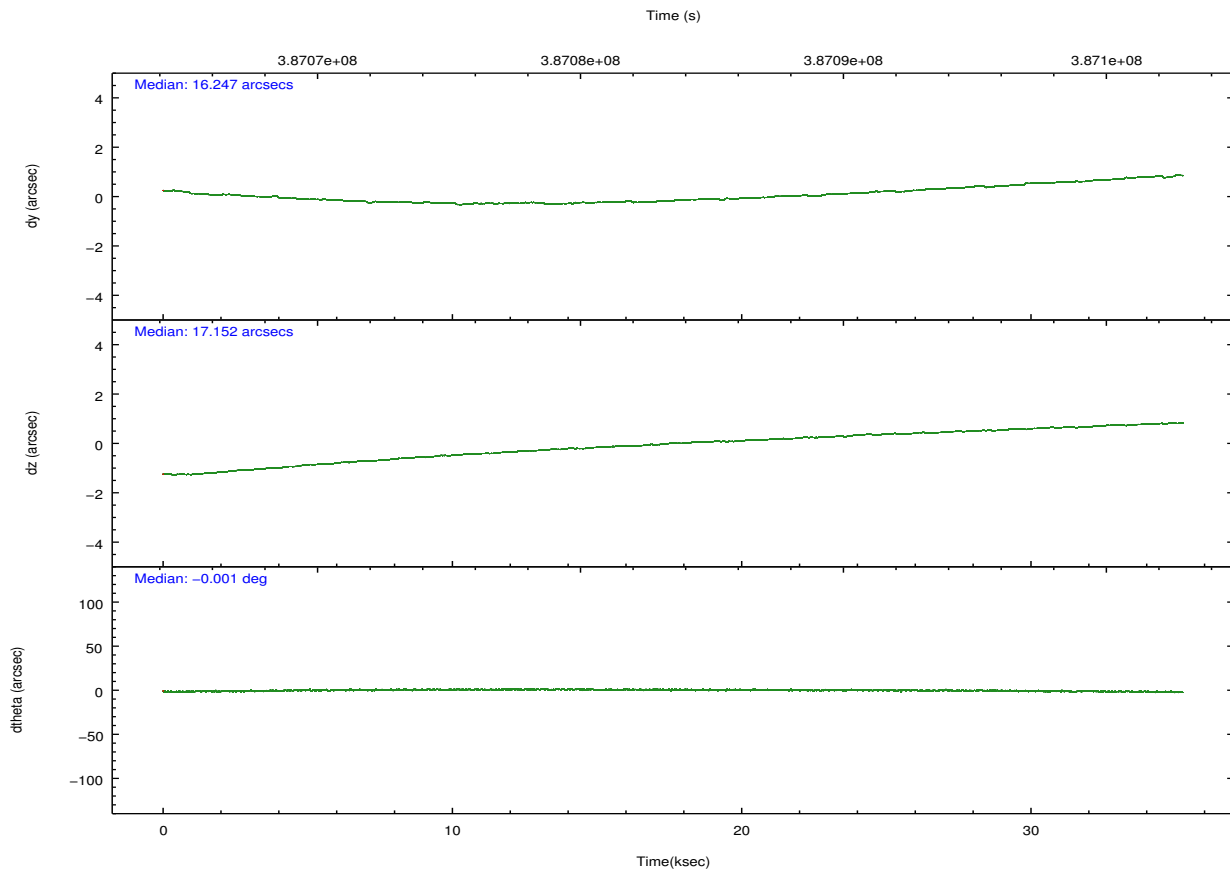
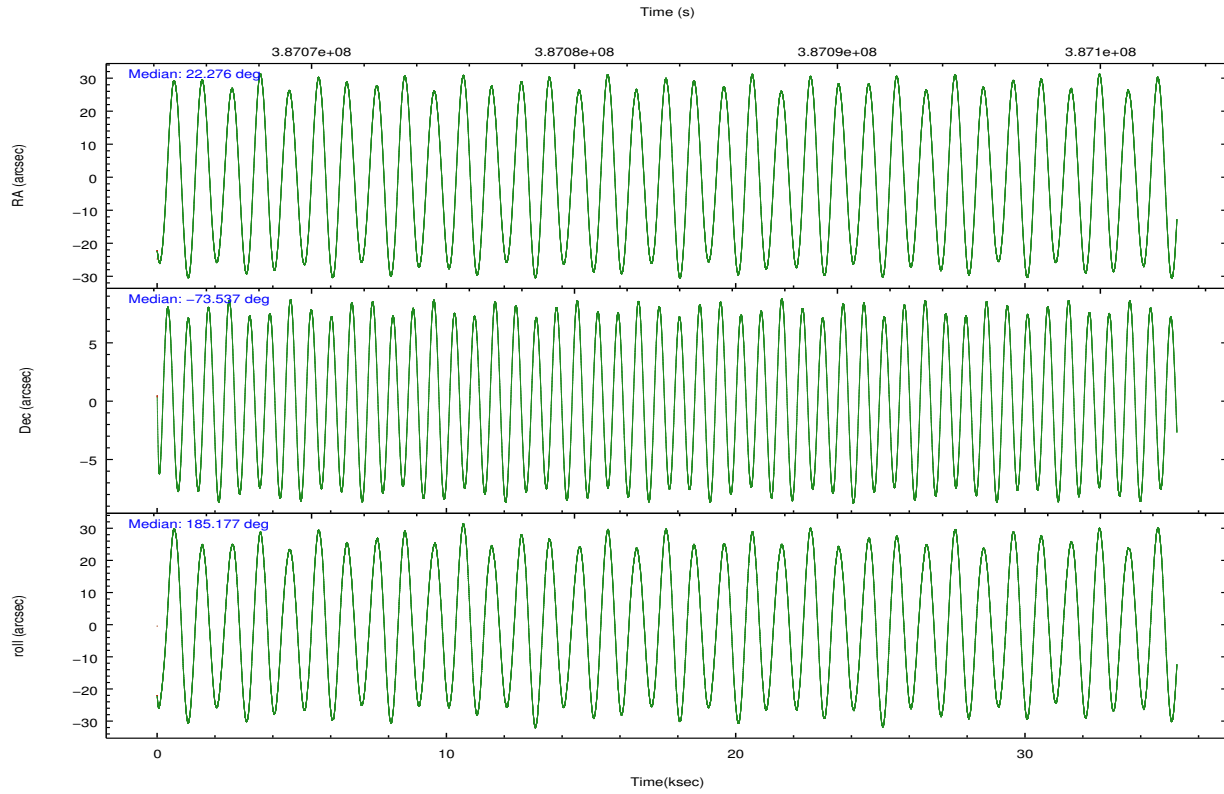
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	236792	236201	262782	249319	261029	306712	grade 0 events	9476	11238	11202	9520	10000	12709
rejected events	209656	205241	234069	223166	232363	167229		4%	4%	4%	3%	3%	4%
rejected %	88%	86%	89%	89%	89%	54%	grade 1 events	201	118	180	164	156	366
								0%	0%	0%	0%	0%	0%
							grade 2 events	6753	7298	6647	5828	6486	28605
								2%	3%	2%	2%	2%	9%
							grade 3 events	2921	3048	2756	2754	3086	12280
								1%	1%	1%	1%	1%	4%
							grade 4 events	2679	3126	3022	2751	2889	12304
								1%	1%	1%	1%	1%	4%
							grade 5 events	10042	10776	9652	11428	11504	31994
								4%	4%	3%	4%	4%	10%
							grade 6 events	5308	6251	5089	5304	6205	73585
								2%	2%	1%	2%	2%	23%
							grade 7 events	199412	194346	224234	211570	220703	134869
								84%	82%	85%	84%	84%	43%

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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	22.354307	22.27526897739568	CCD I2 on	Y	Y
[deg] Pointing Dec	-73.520938	-73.5368881841822	CCD I3 on	Y	Y
[deg] Pointing Roll	185.050478	185.1833670719813	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	Y	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	387067141.184000	387064950.96117	CCD S5 on	N	N
Observation start date	2010-04-07T22:37:55	2010-04-07T22:02:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	387101141.184000	387101834.56305	On-chip summing requested	N	N
Observation end date	2010-04-08T08:04:35	2010-04-08T08:17:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



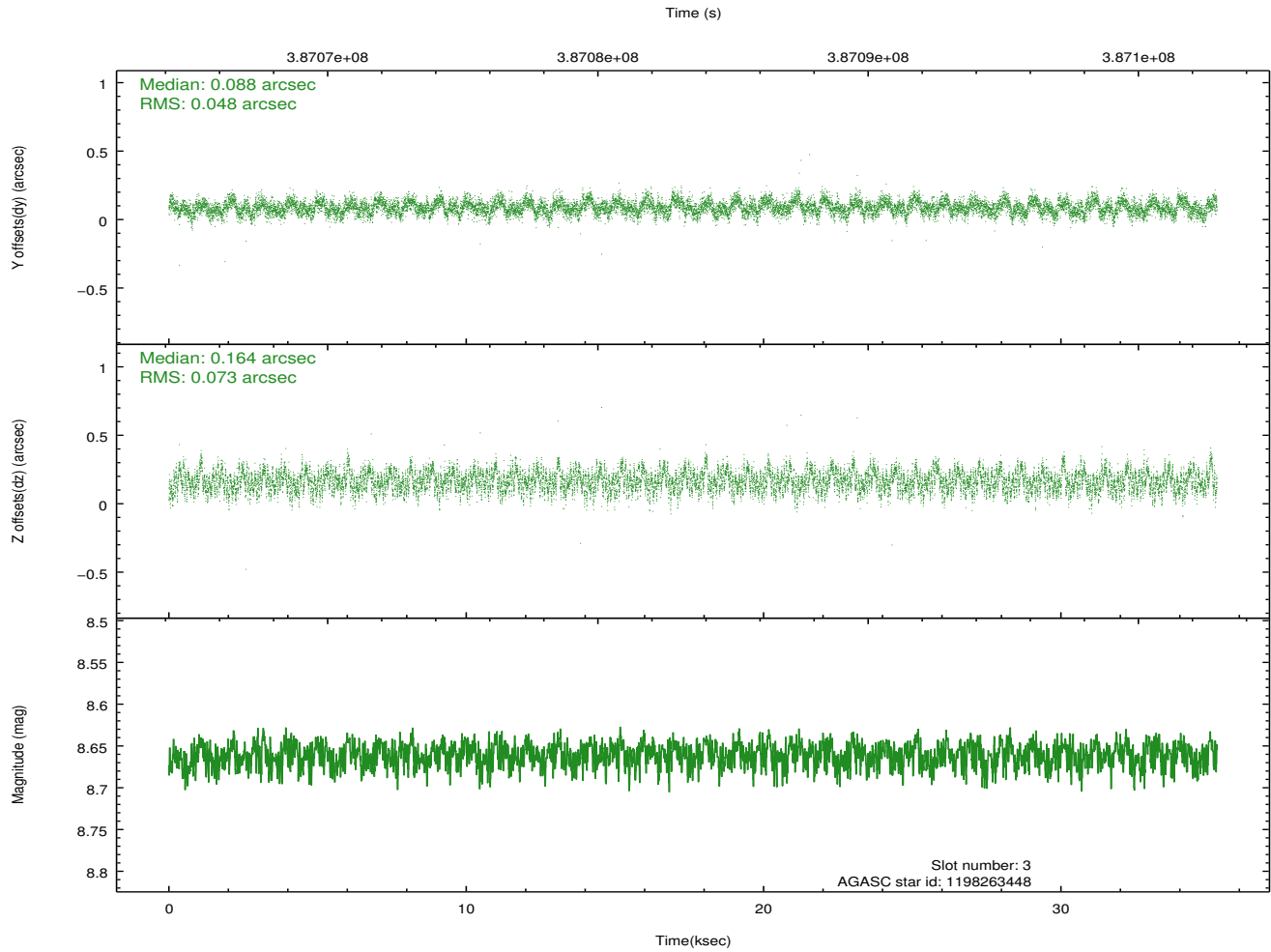
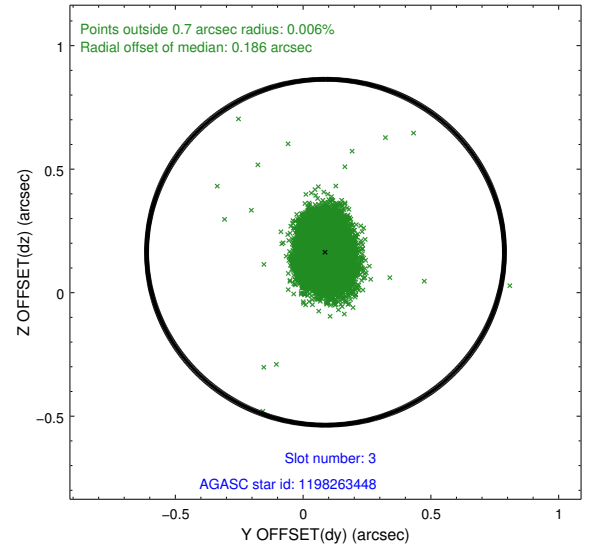
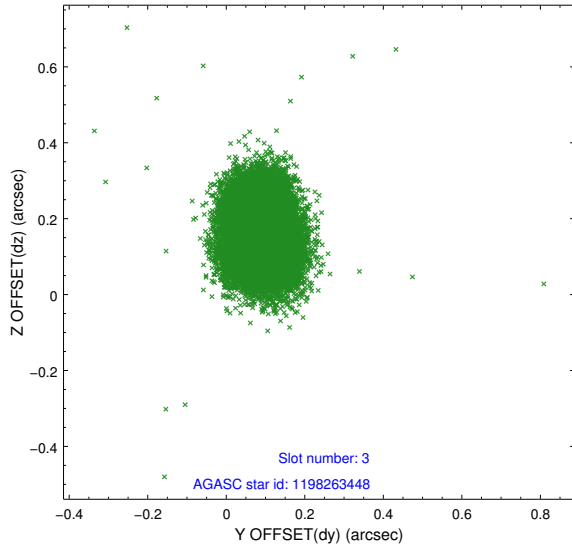


Slot Statistics

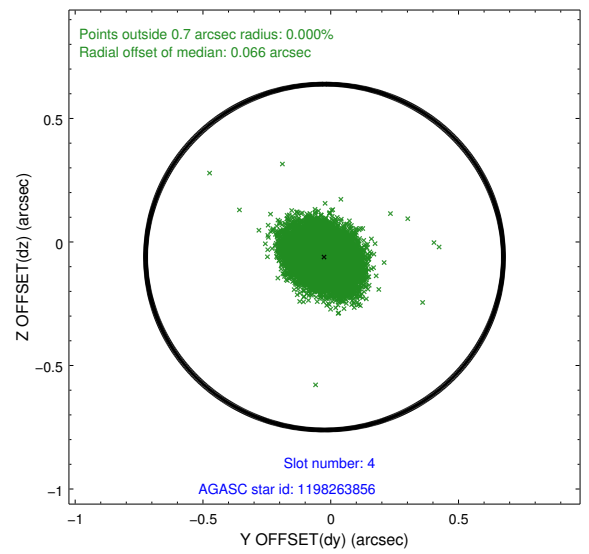
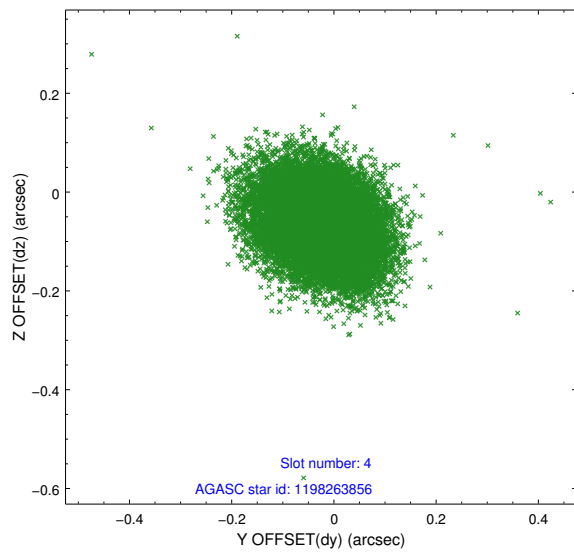
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	8597	0.053	-0.021	0.015	0.022	0.000000	0.000000	923.14	-840.74
1	FID	ACIS-I-5	7.01	8598	-0.215	0.056	0.008	0.016	0.000000	0.000000	-1825.19	1056.83
2	FID	ACIS-I-6	7.03	8597	0.072	0.032	0.018	0.030	0.000000	0.000000	388.69	1701.33
3	GUIDE	1198263448	8.66	17189	0.088	0.164	0.093	0.148	23.988893	-72.831877	-1946.07	-2294.62
4	GUIDE	1198263856	9.23	17186	-0.024	-0.061	0.090	0.150	23.344483	-73.858921	-879.28	1307.32
5	GUIDE	1198264032	8.00	17131	0.089	-0.046	0.067	0.104	22.563131	-73.173817	-325.82	-1224.80
6	GUIDE	1198269920	8.27	17192	-0.004	0.101	0.087	0.140	20.316466	-73.033728	1981.11	-1898.93
7	GUIDE	1198272400	9.16	17081	-0.148	-0.156	0.088	0.141	20.411923	-73.620598	1998.52	215.89

2.4 Star Slots

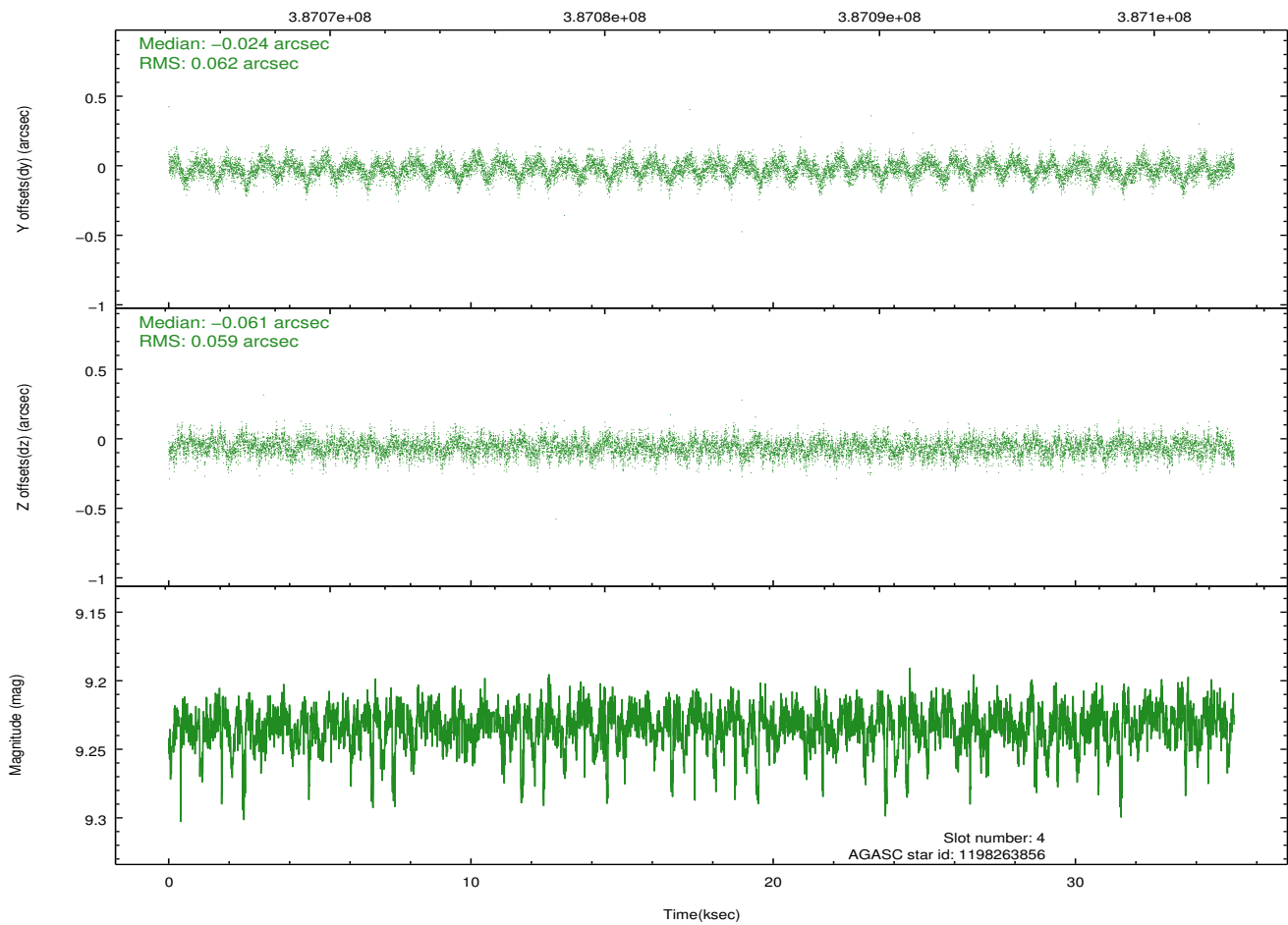
2.4.1 Slot 3



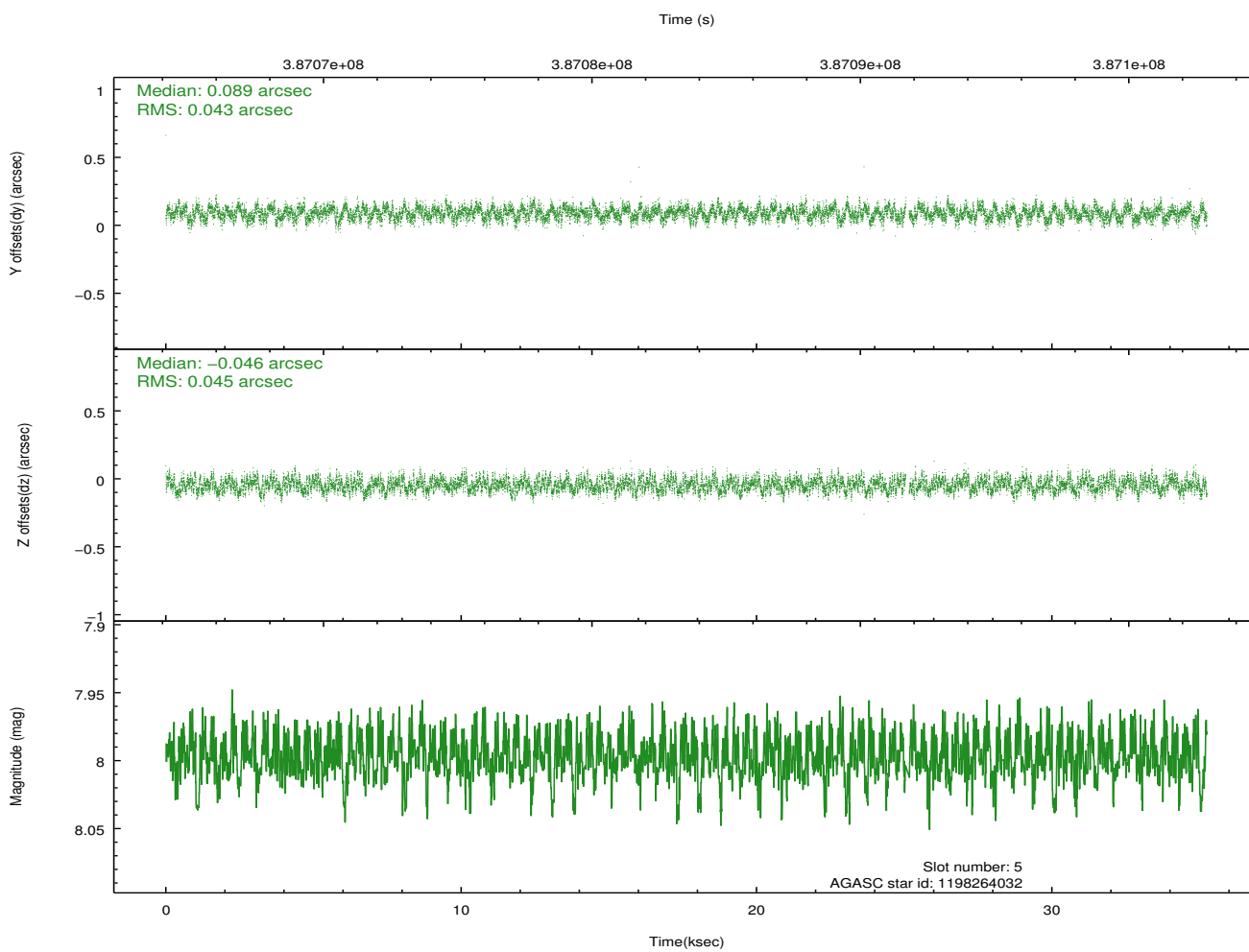
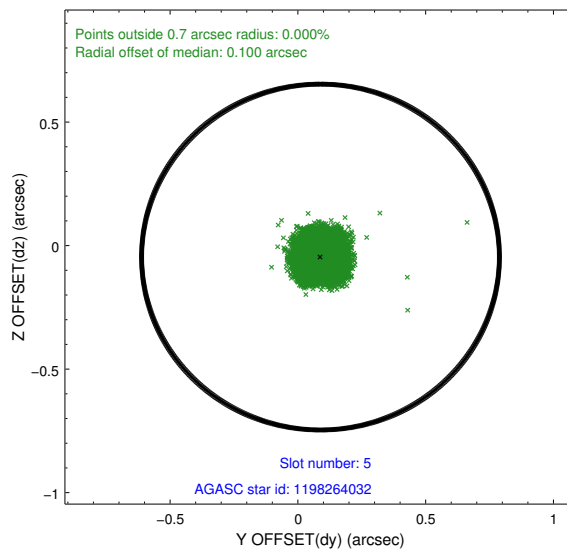
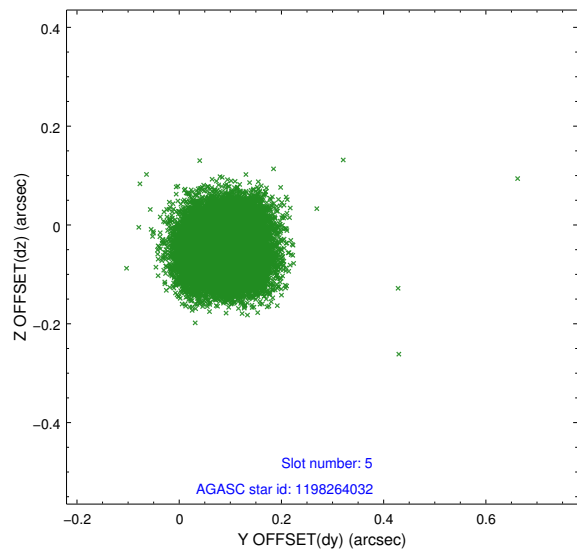
2.4.2 Slot 4



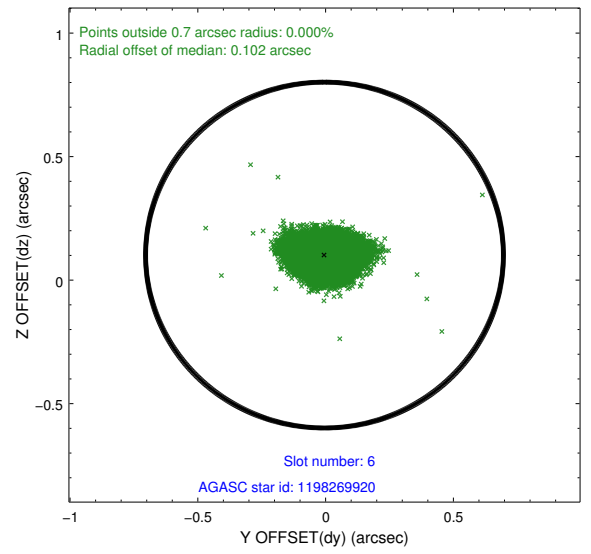
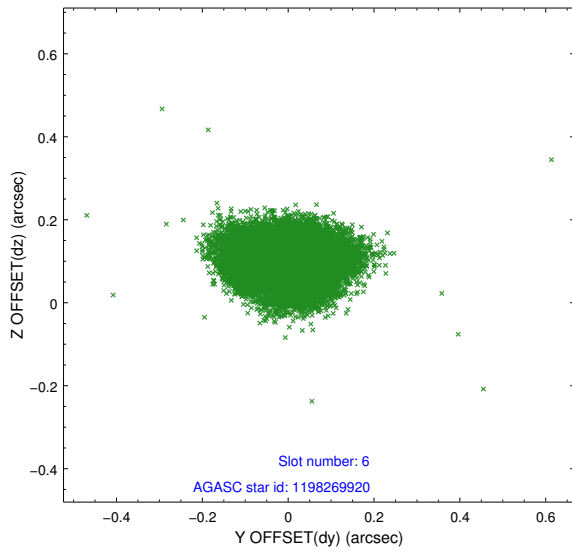
Time (s)



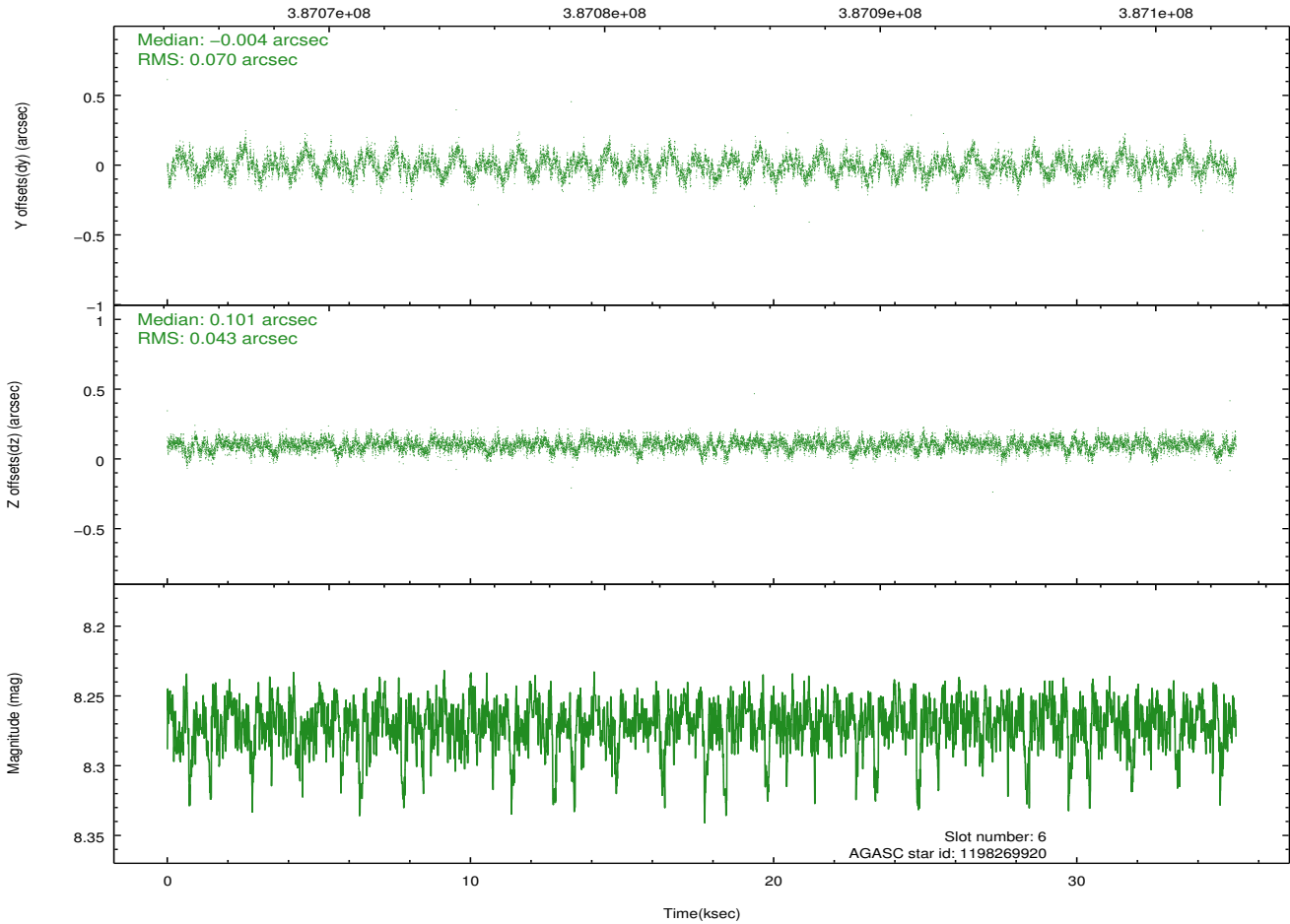
2.4.3 Slot 5



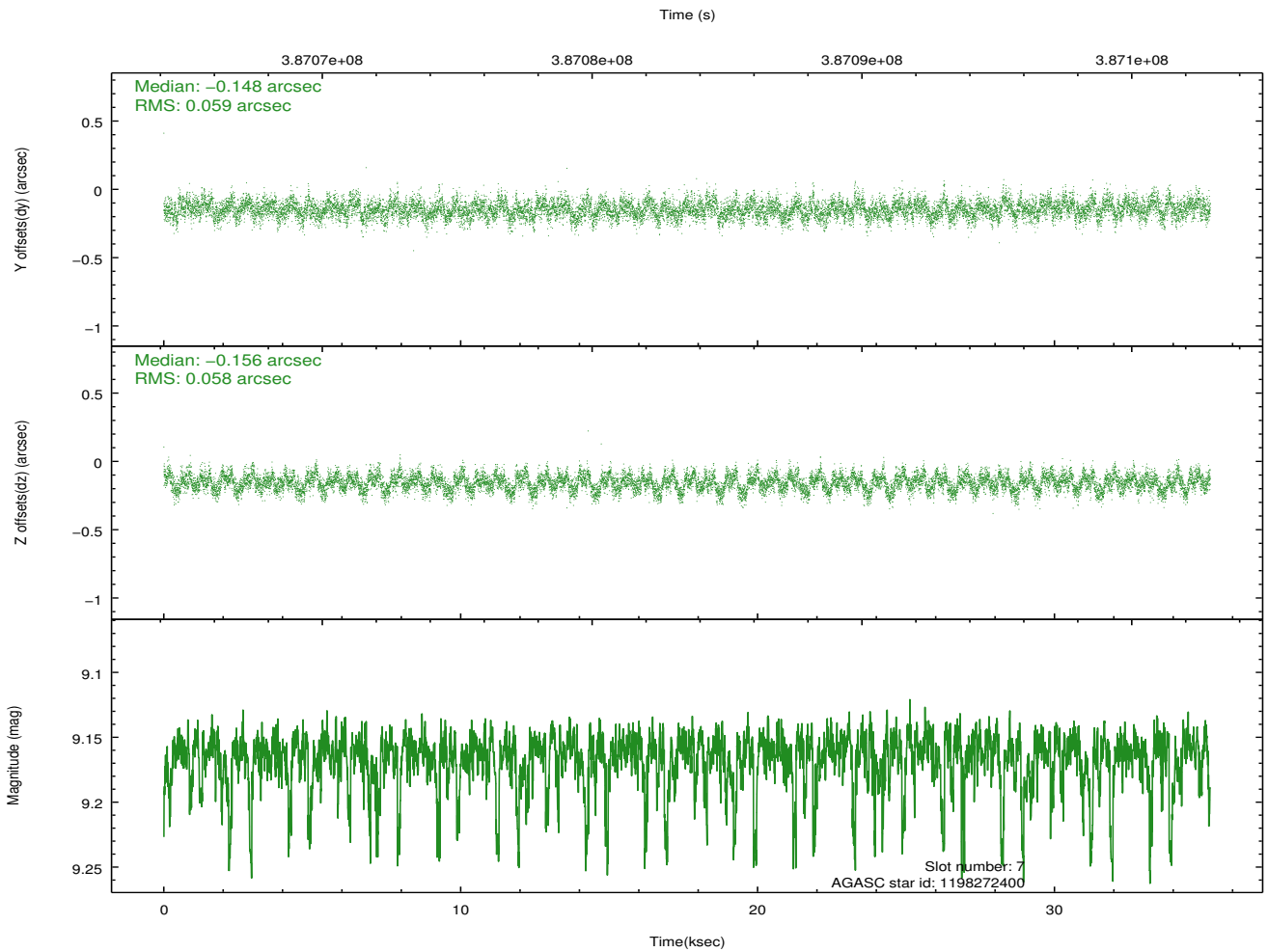
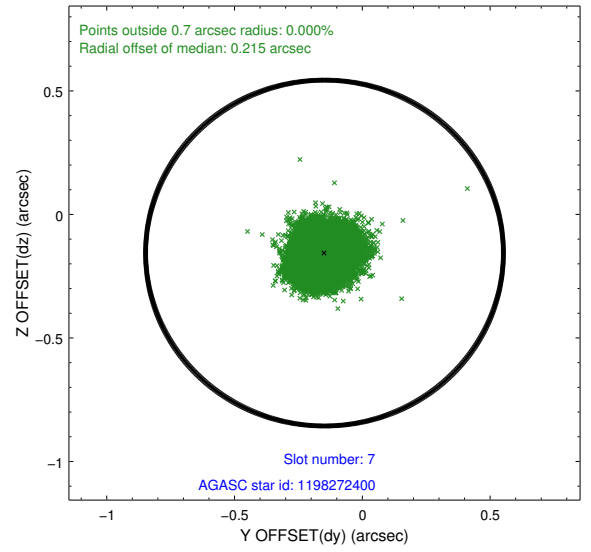
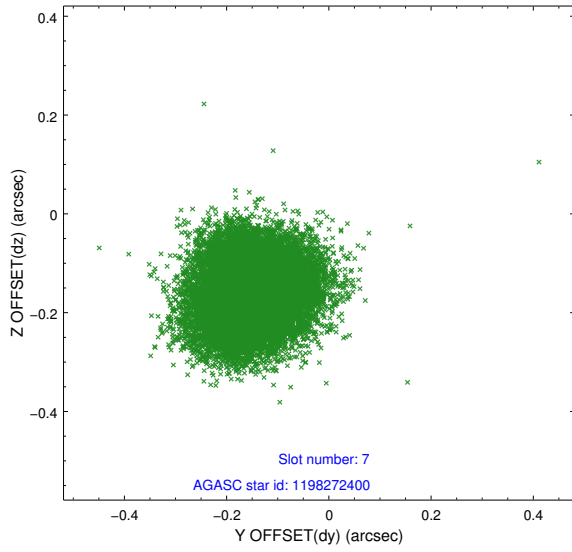
2.4.4 Slot 6



Time (s)

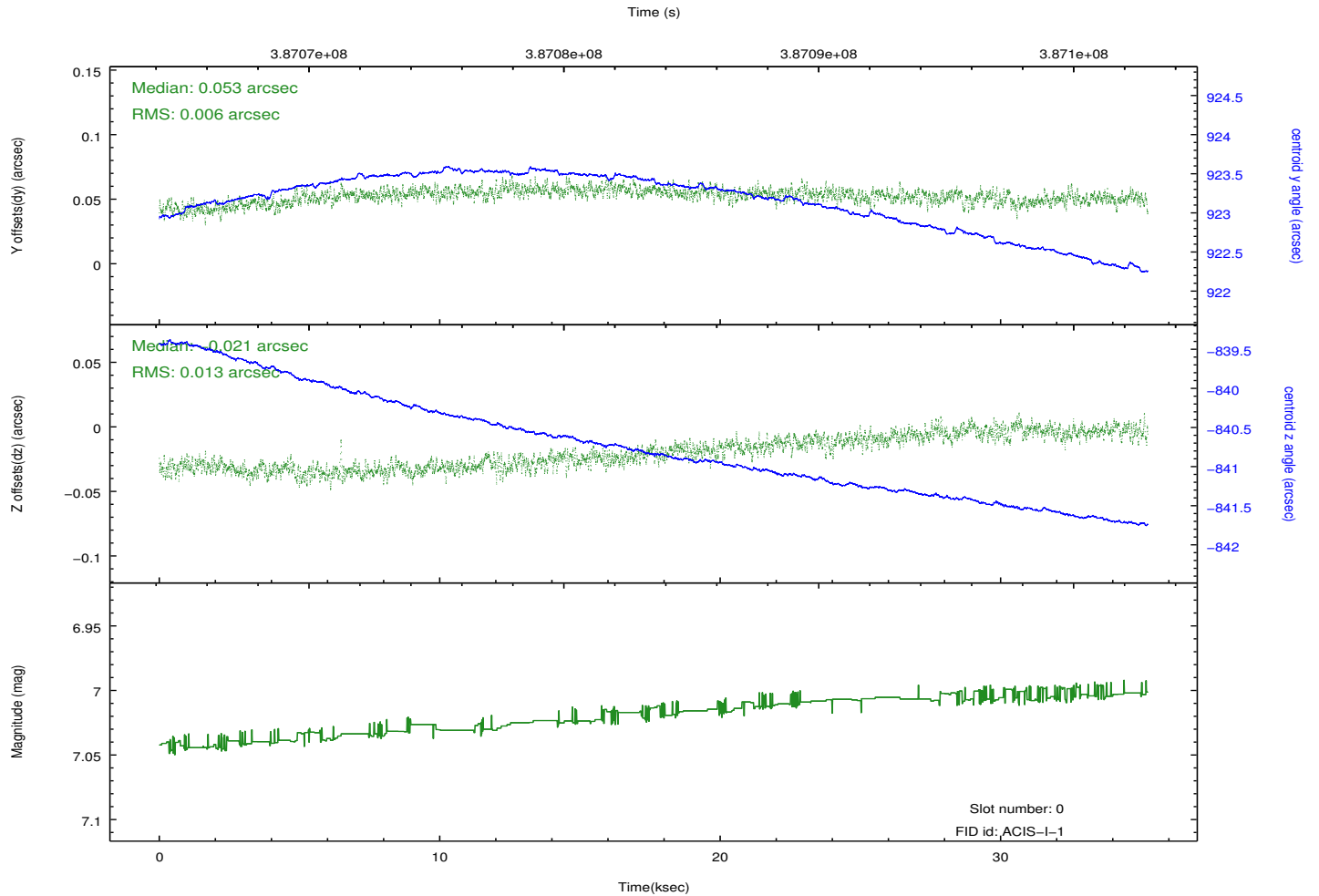
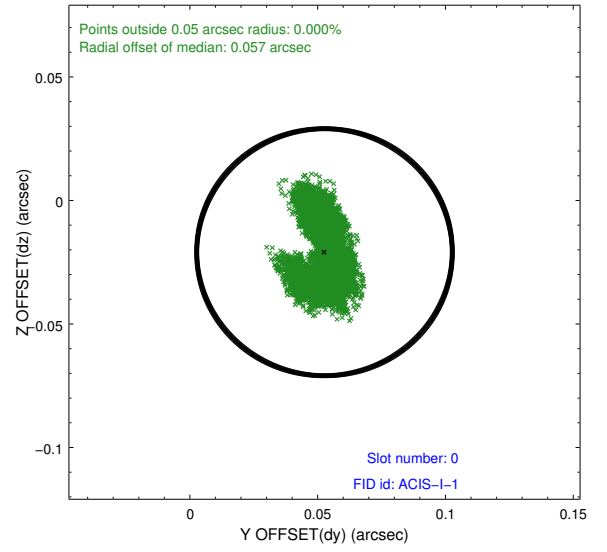
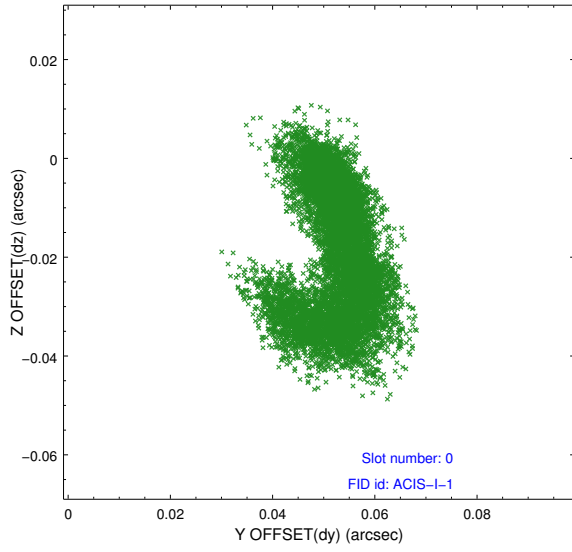


2.4.5 Slot 7

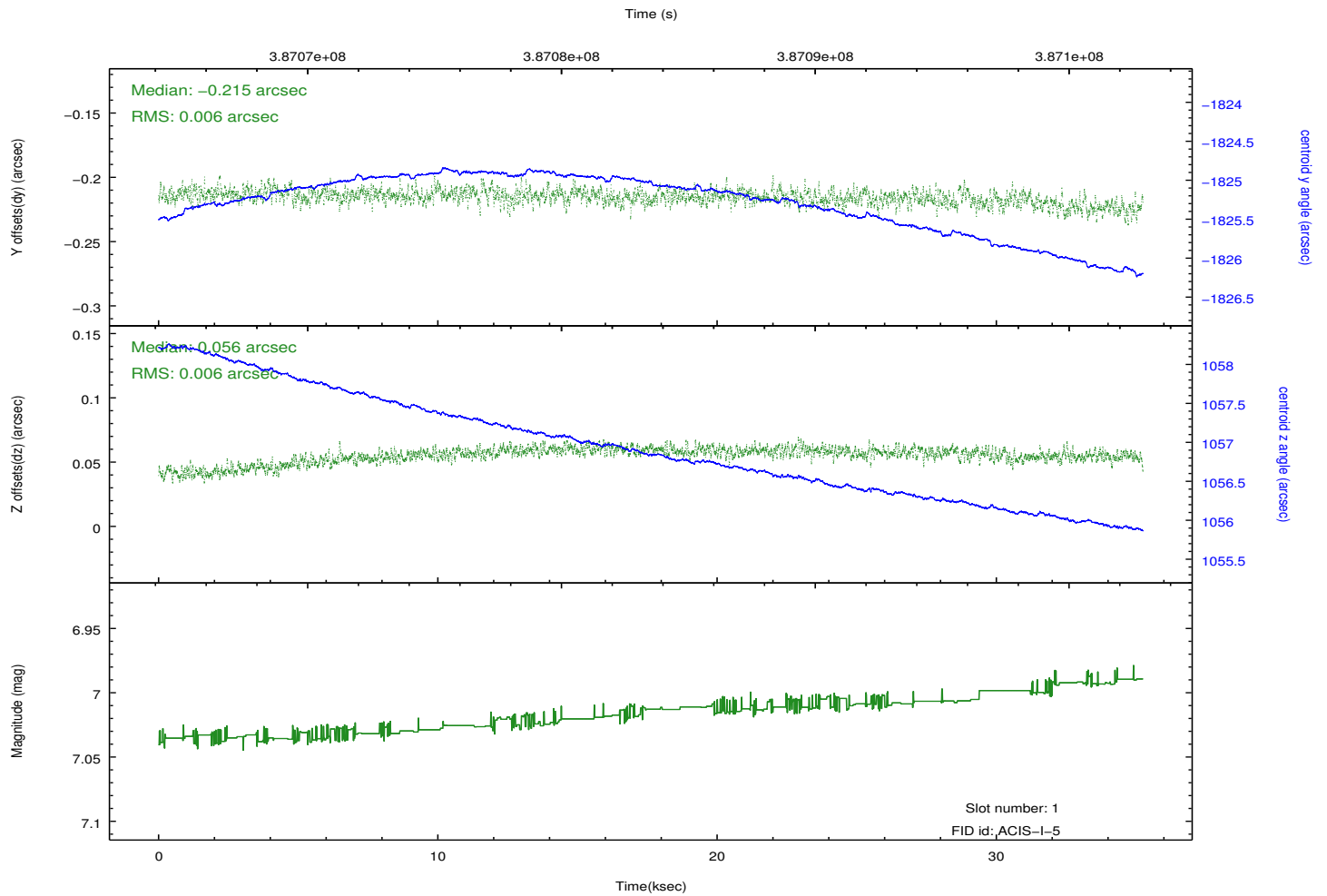
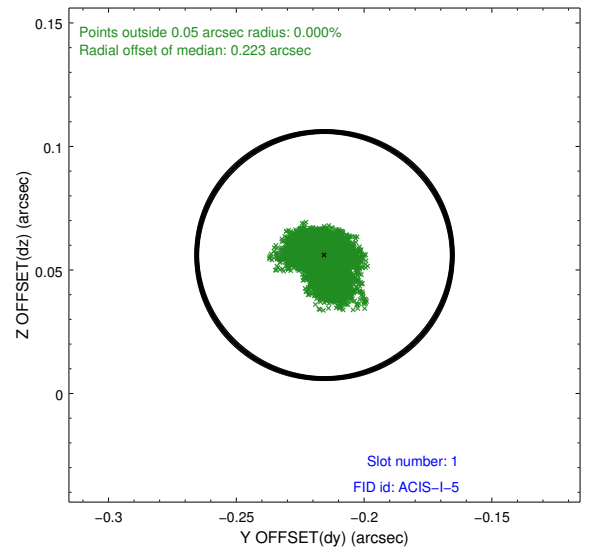
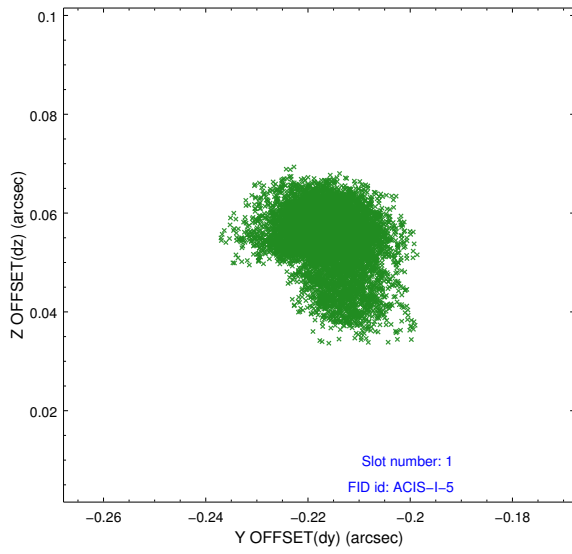


2.5 FID Slots

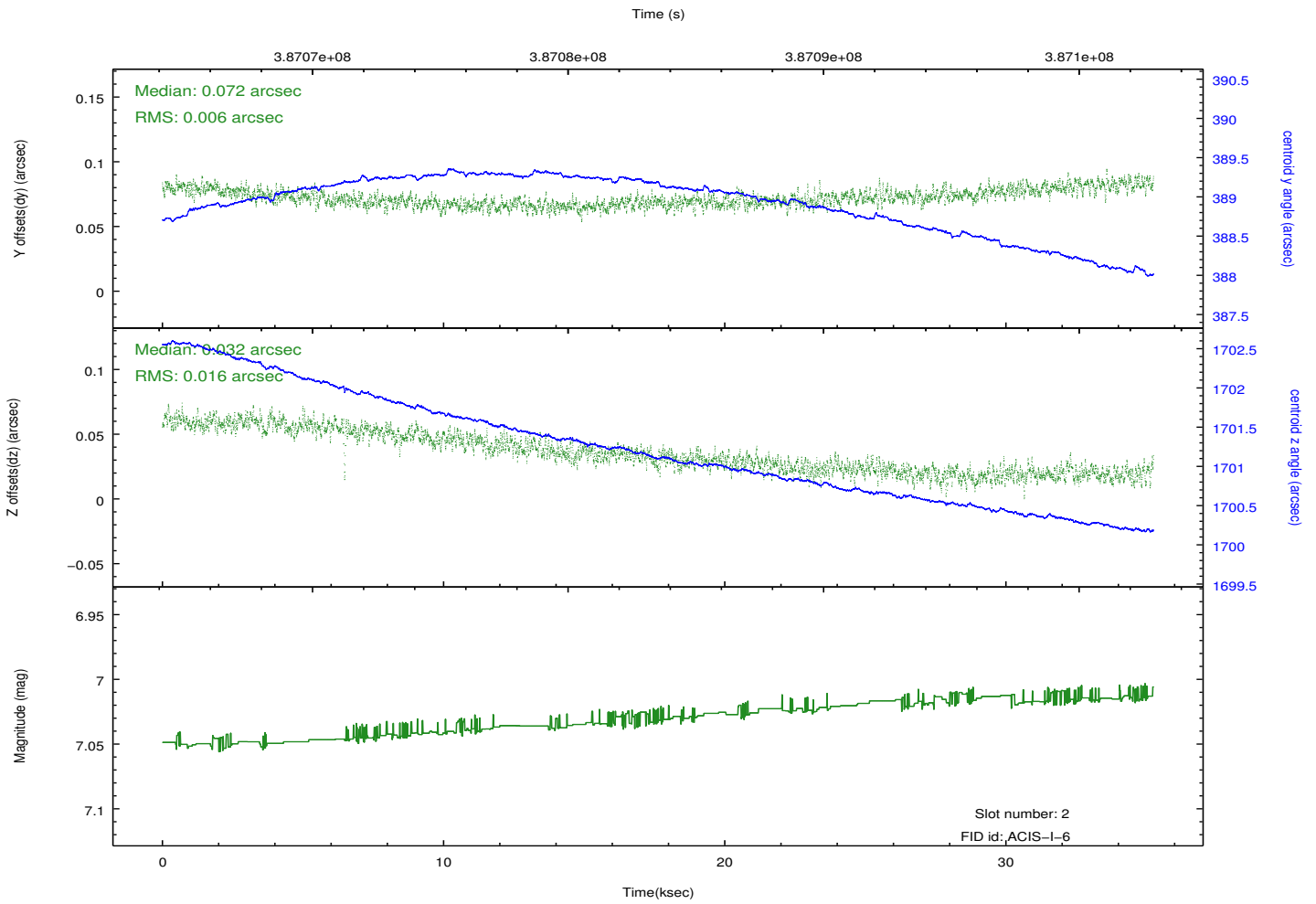
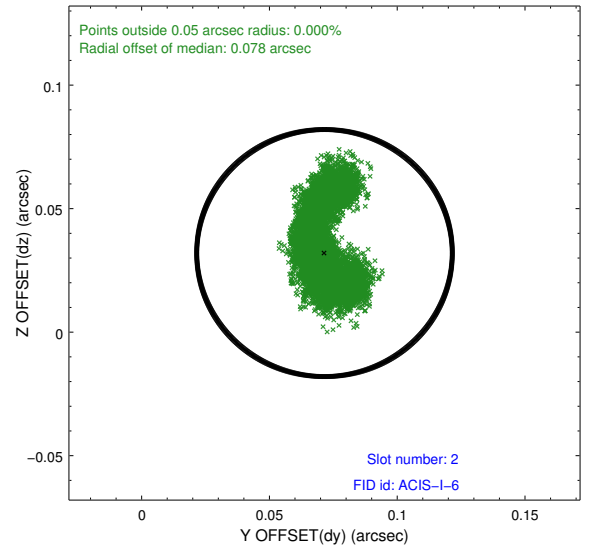
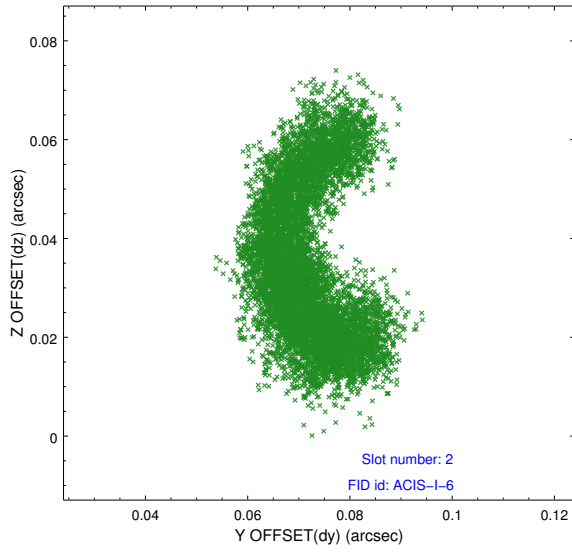
2.5.1 Slot 0



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)	2012.06.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.051199873209

A.2 Comments