

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5306 - L2 Version 3
Chandra X-Ray Center

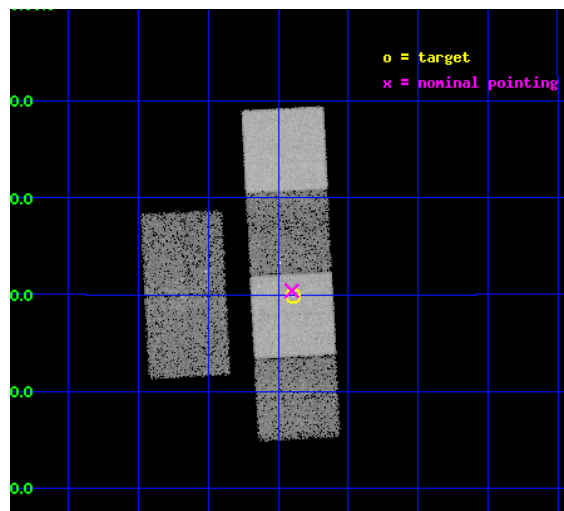
L2 Processing Date : Nov 13 2012

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

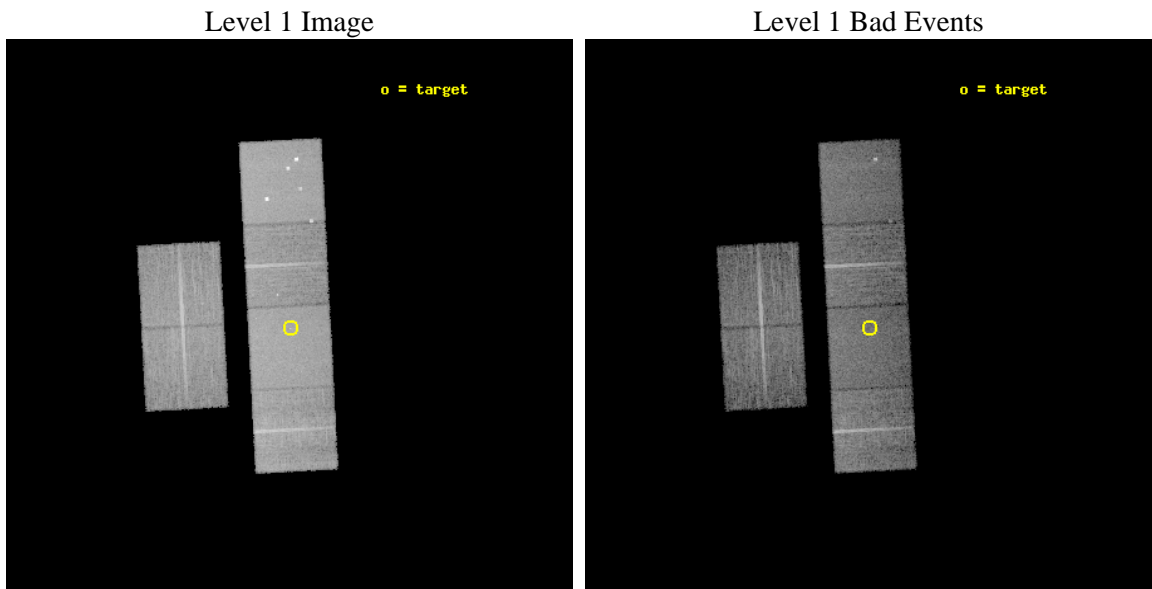
seq_num	500505	Sequence number
obs_id	5306	Observation id
title	Prompt Observation of the Type Ib/c Supernova 2001em	Proposal titl
observer	Prof. David Pooley	Principal investigator
object	SN 2001em	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	325.598333	Observer's specified target RA [deg]
dec_targ	12.497306	Observer's specified target Dec [deg]
ra_nom	325.6005444522	Nominal RA [deg]
dec_nom	12.506755649703	Nominal Dec [deg]
roll_nom	87.035039282455	Nominal Roll [deg]
revision	3	Processing version of data
ontime	14755.199945033	Sum of GTIs [s]
livetime	14568.360718814	Livetime [s]
ontime2	14755.199945033	Sum of GTIs [s]
ontime3	14755.199945033	Sum of GTIs [s]
ontime5	14755.199945033	Sum of GTIs [s]
ontime6	14755.199945033	Sum of GTIs [s]
ontime7	14755.199945033	Sum of GTIs [s]
ontime8	14751.959044278	Sum of GTIs [s]
l2events	157582	Number of level 2 events



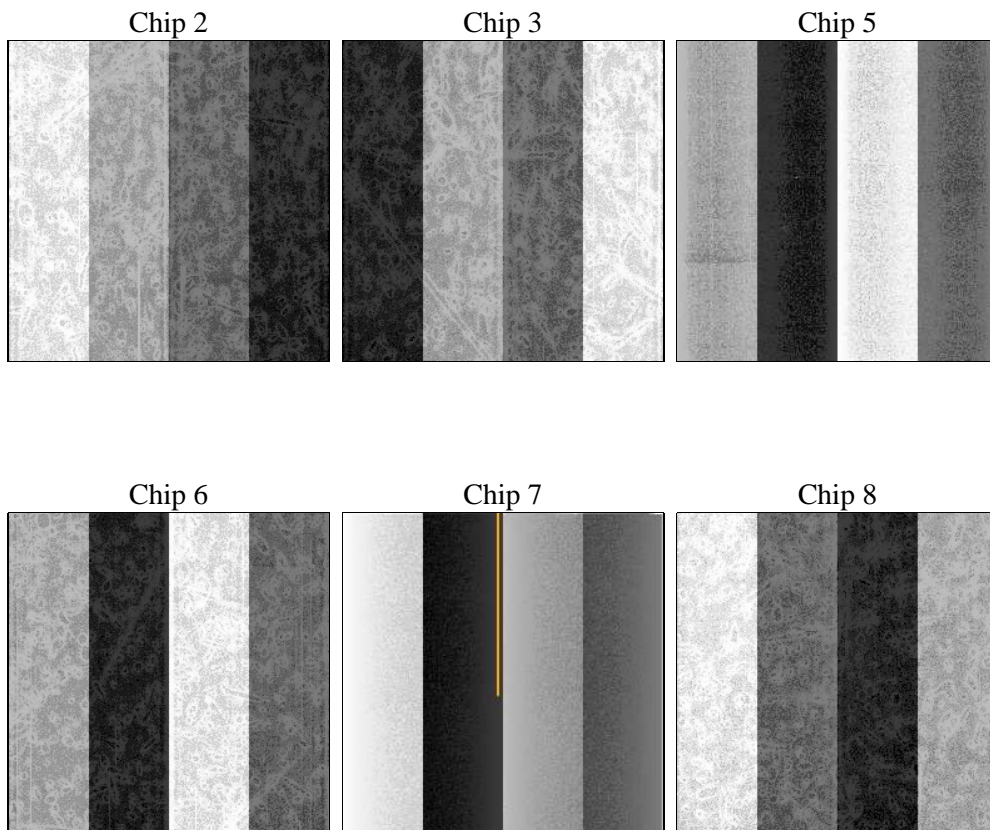
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	14755.199945033	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	14755.199945033	Sum of GTIs [s]
date	2012-11-14T01:25:44	Date and time of file creation	ontime3	14755.199945033	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	14755.199945033	Sum of GTIs [s]
			ontime6	14755.199945033	Sum of GTIs [s]
			ontime7	14755.199945033	Sum of GTIs [s]
			ontime8	14751.959044278	Sum of GTIs [s]
			l1events	703124	Number of level 1 events

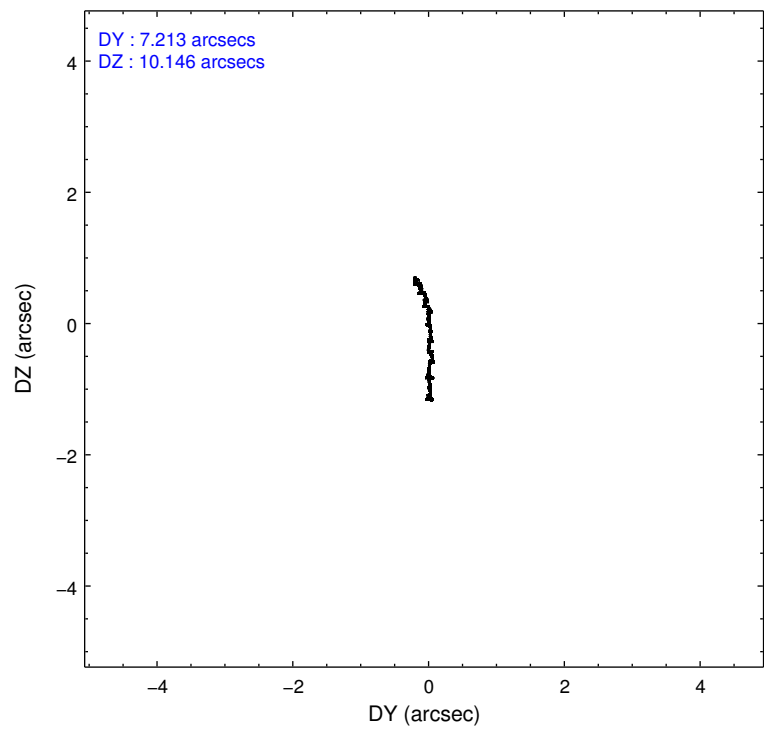
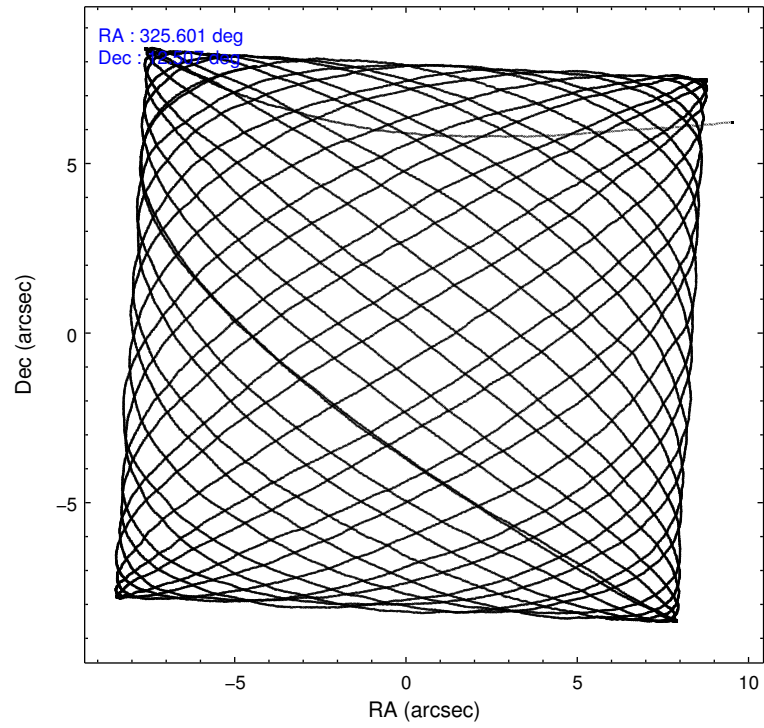
2.1.4 Events

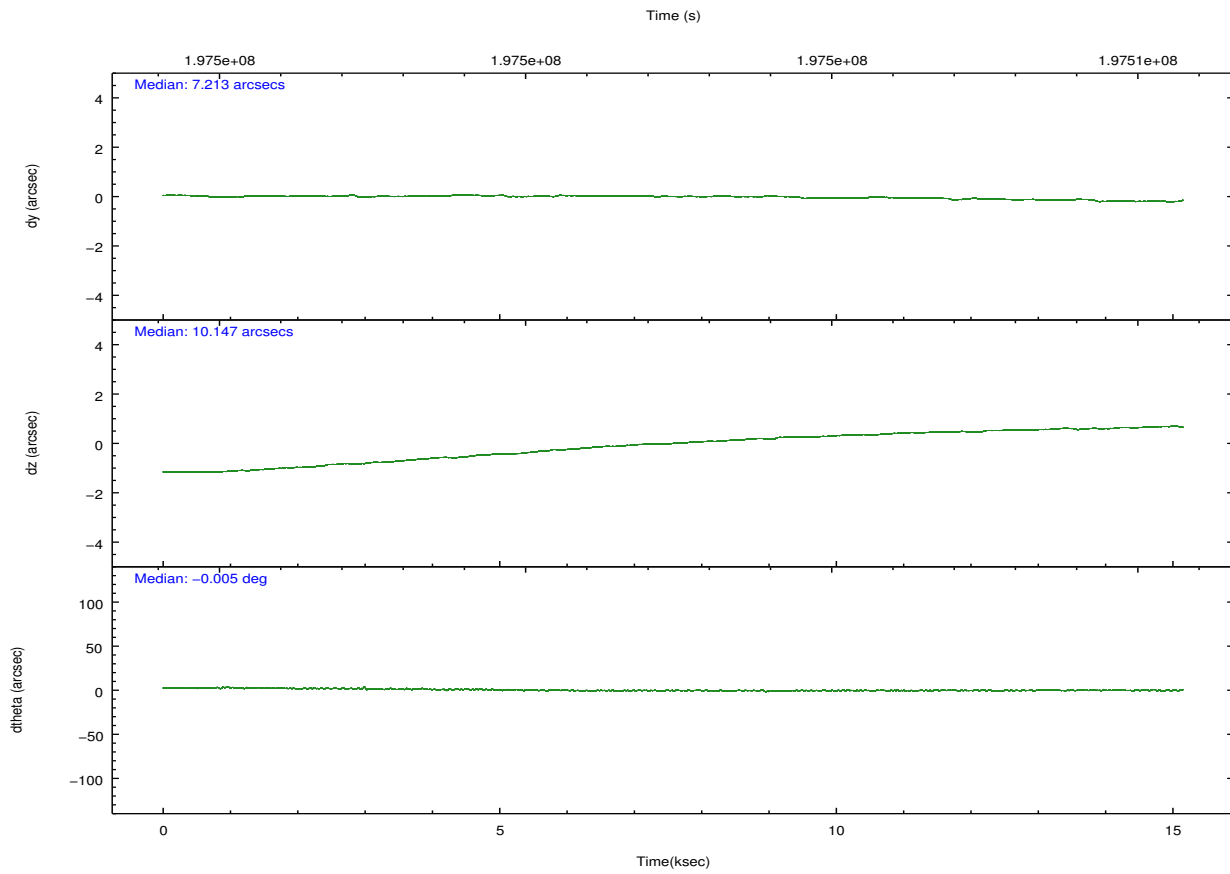
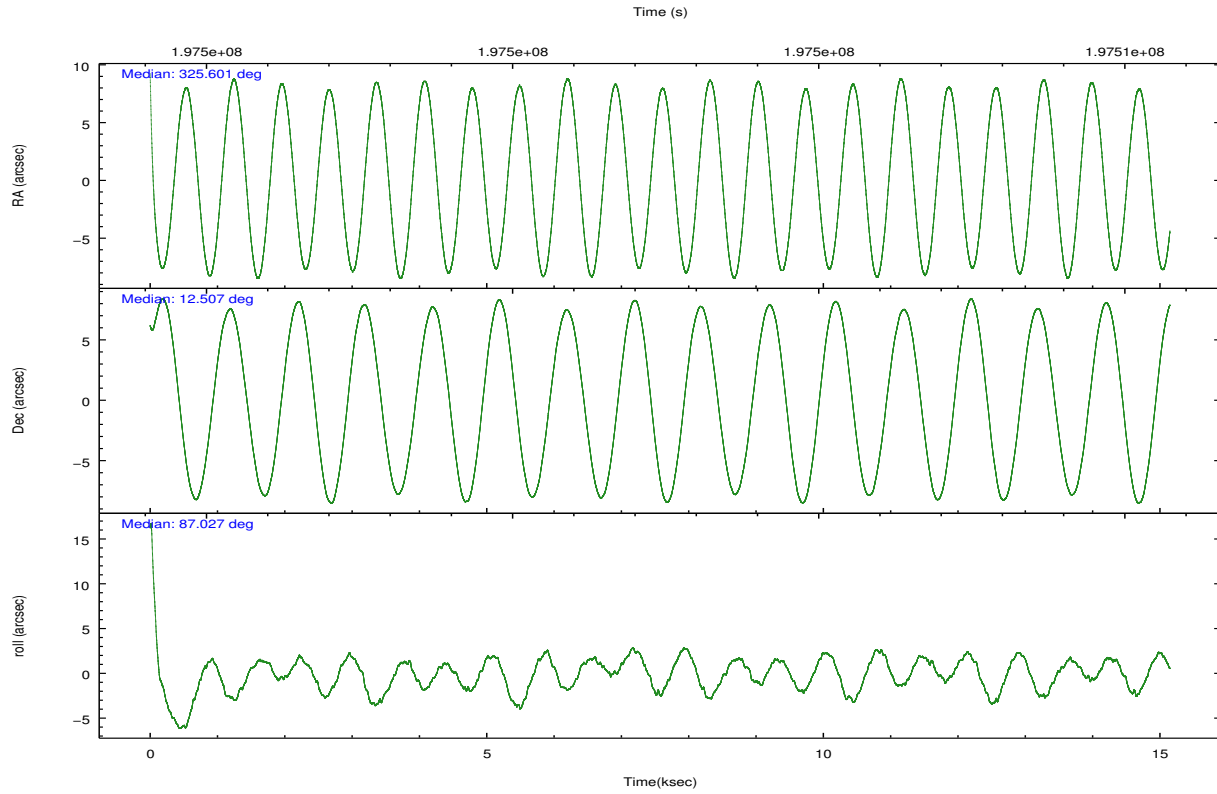
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	99908	94109	153012	98459	132176	125460	grade 0 events	5234	5284	11837	4990	5315	7874
rejected events	88088	82435	79680	86347	77365	100273		5%	5%	7%	5%	4%	6%
rejected %	88%	87%	52%	87%	58%	79%	grade 1 events	65	64	734	55	121	72
								0%	0%	0%	0%	0%	0%
							grade 2 events	2384	2211	21607	2456	10924	5522
								2%	2%	14%	2%	8%	4%
							grade 3 events	1094	1088	2595	1216	4851	2565
								1%	1%	1%	1%	3%	2%
							grade 4 events	1107	1157	2440	1071	4773	2388
								1%	1%	1%	1%	3%	1%
							grade 5 events	3789	4356	10682	4583	12631	5713
								3%	4%	6%	4%	9%	4%
							grade 6 events	2003	1938	34866	2382	28958	6850
								2%	2%	22%	2%	21%	5%
							grade 7 events	84232	78011	68251	81706	64603	94476
								84%	82%	44%	82%	48%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	325.613583	325.6005444522037	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.482643	12.50675564970321	Alternating exposures requested	N	N
[deg] Pointing Roll	86.875589	87.03503928245537	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	197494981.184000	197493843.33133			
Observation start date	2004-04-04T19:41:57	2004-04-04T19:24:03			
[s] Observation end time (MET)	197509981.184000	197510572.86957			
Observation end date	2004-04-04T23:51:57	2004-04-05T00:02:52			
Read mode	TIMED	TIMED			

2.3 Aspect



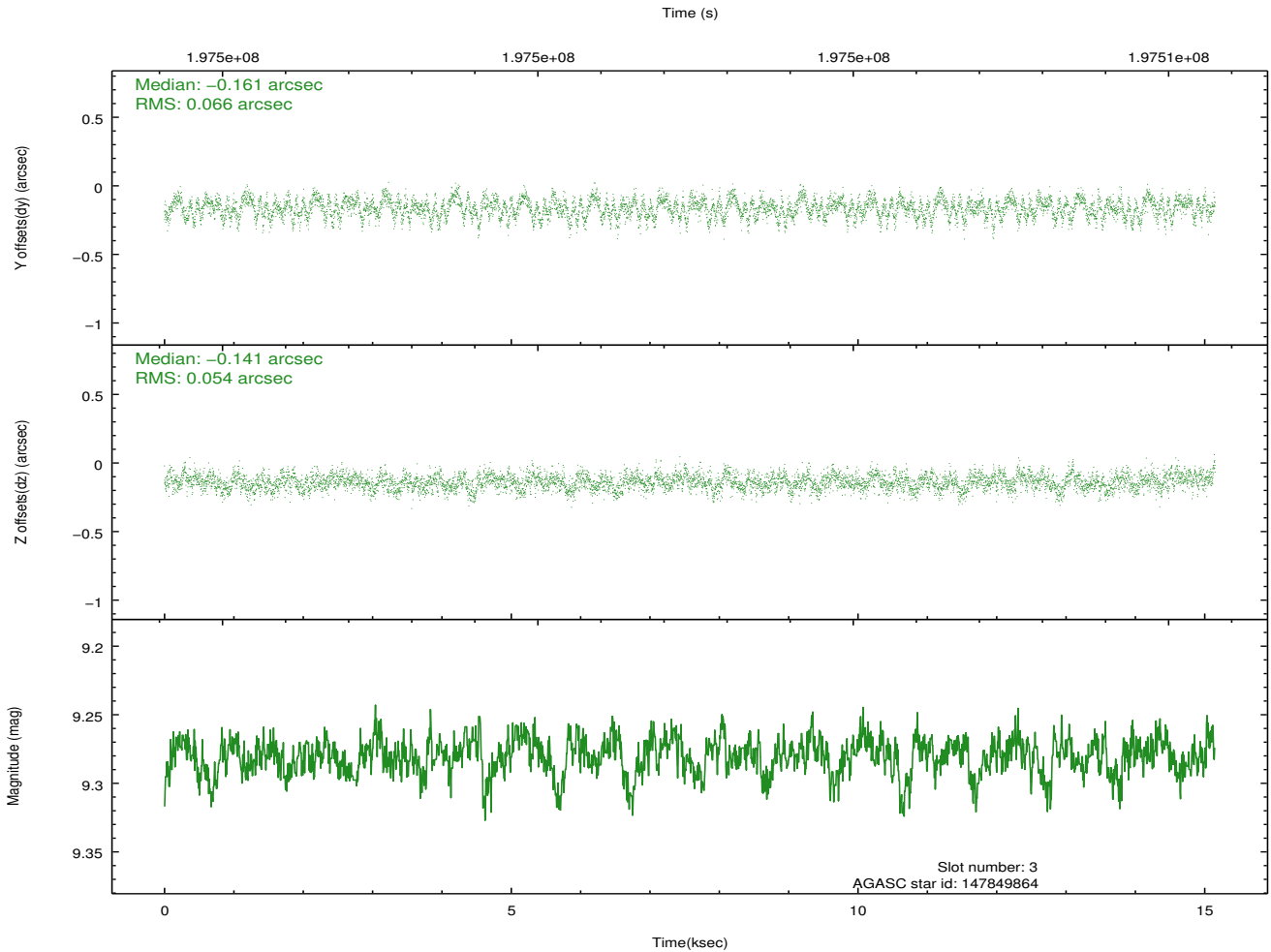
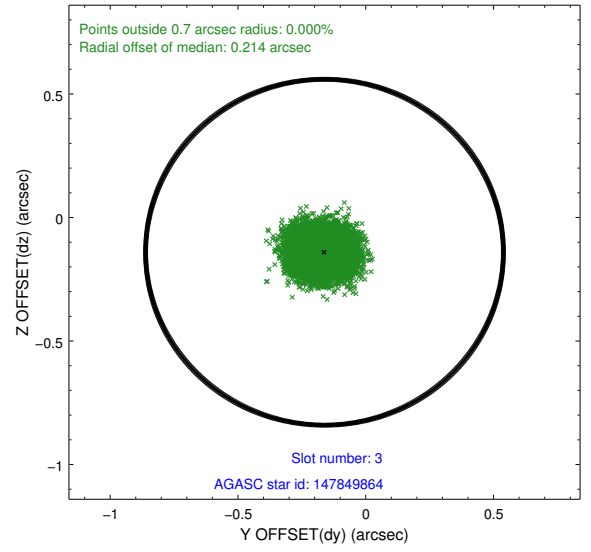
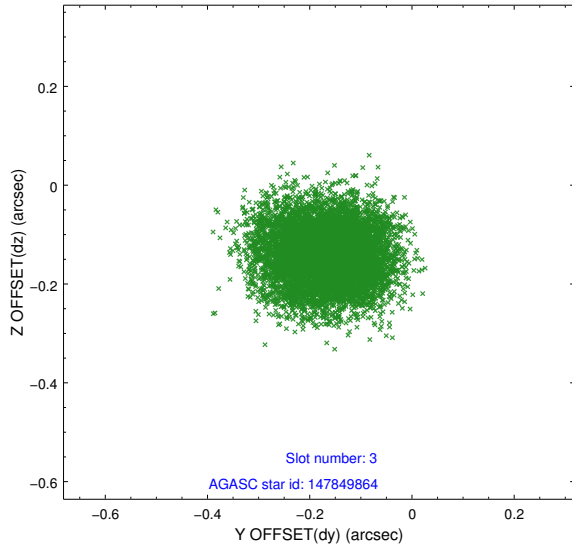


Slot Statistics

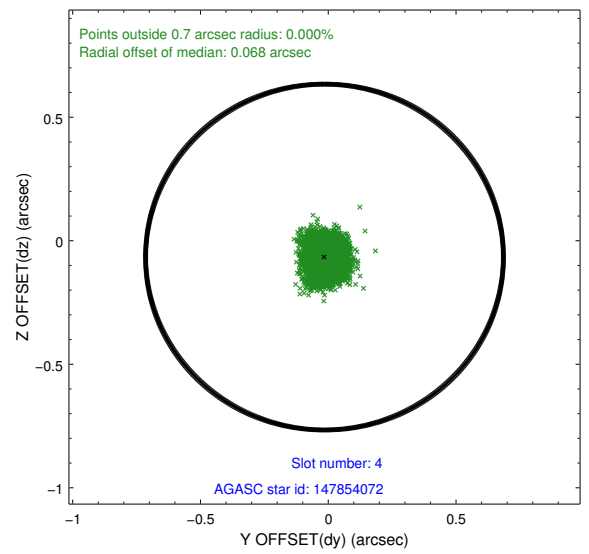
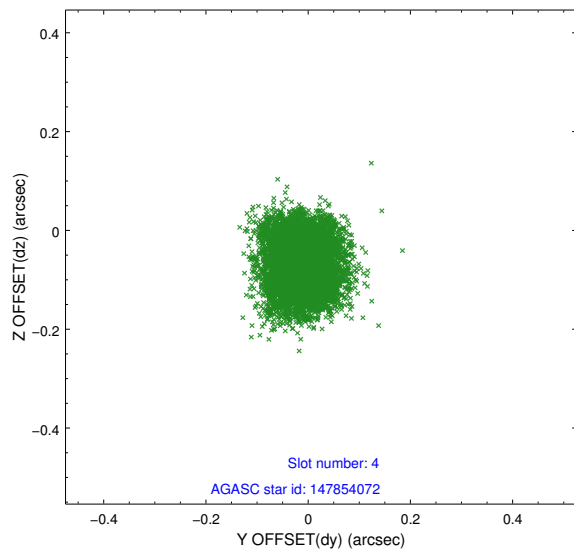
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	3694	-0.046	-0.015	0.014	0.028	0.000000	0.000000	-759.95	-1731.31
1	FID	ACIS-S-4	7.20	3693	0.068	0.026	0.007	0.014	0.000000	0.000000	2153.27	176.96
2	FID	ACIS-S-5	7.23	3696	-0.054	-0.004	0.015	0.030	0.000000	0.000000	-1812.46	170.87
3	GUIDE	147849864	9.28	7382	-0.161	-0.141	0.091	0.146	325.017652	12.996291	1734.56	2188.40
4	GUIDE	147854072	8.10	7384	-0.015	-0.066	0.064	0.103	325.349490	12.755754	931.82	979.95
5	GUIDE	147991784	7.94	7391	0.080	0.108	0.053	0.087	325.826731	12.518355	169.68	-741.01
6	GUIDE	147995336	8.76	7388	-0.171	0.230	0.084	0.136	326.176555	13.042686	2123.14	-1861.10
7	GUIDE	147864216	9.17	7382	0.266	-0.132	0.089	0.141	325.021145	12.092394	-1513.90	2005.45

2.4 Star Slots

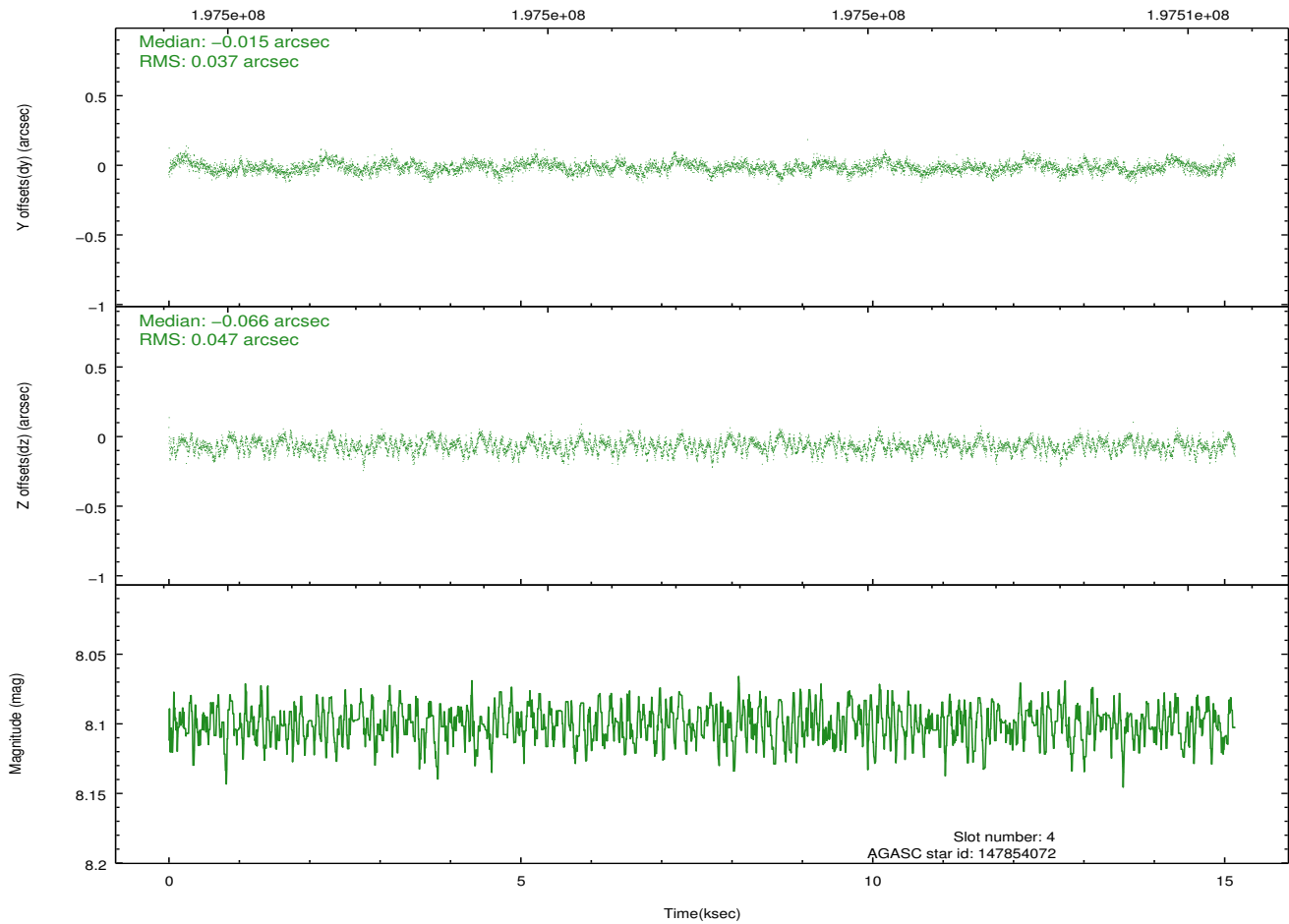
2.4.1 Slot 3



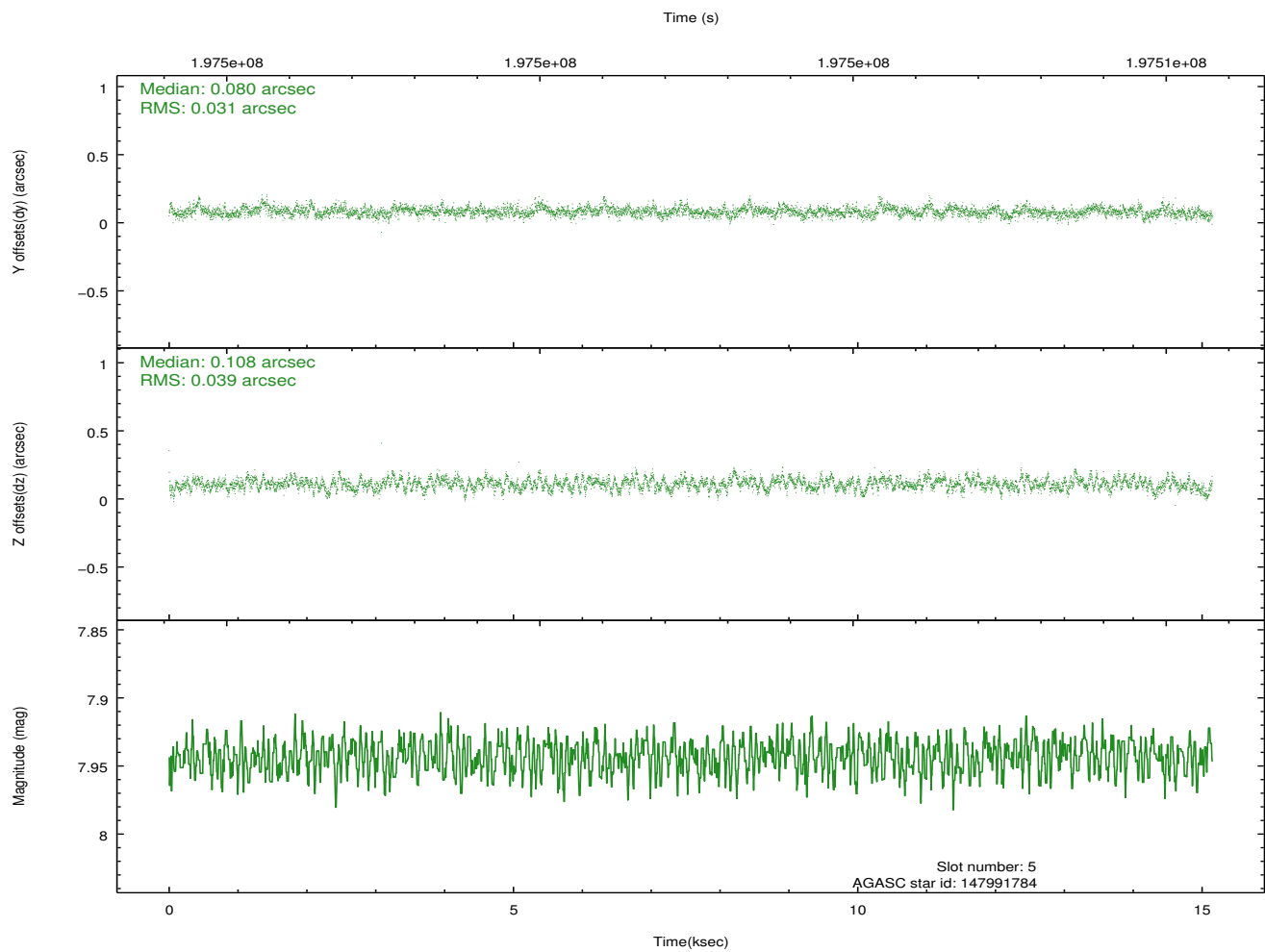
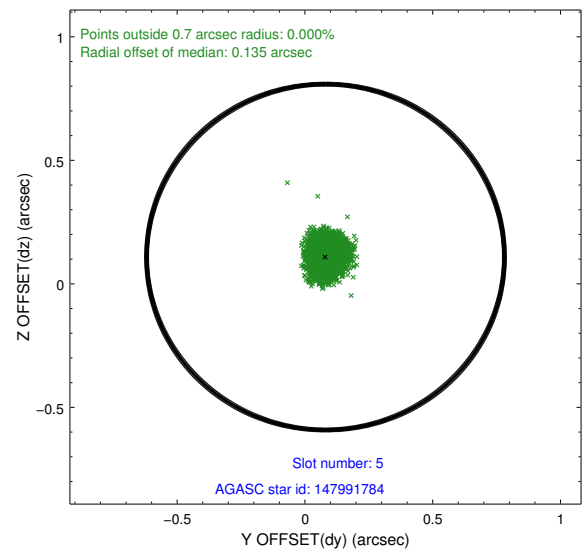
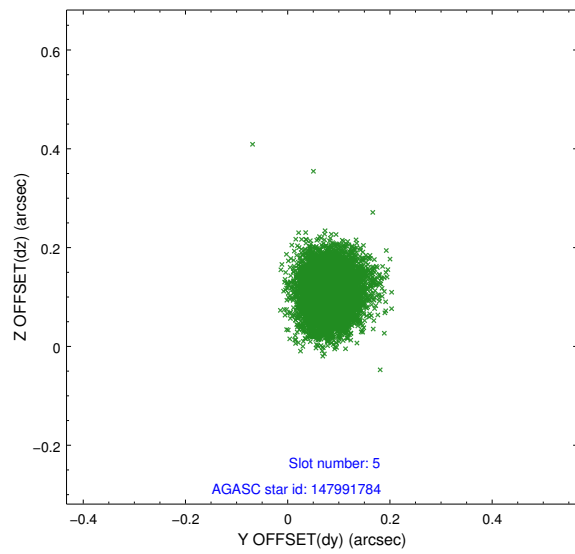
2.4.2 Slot 4



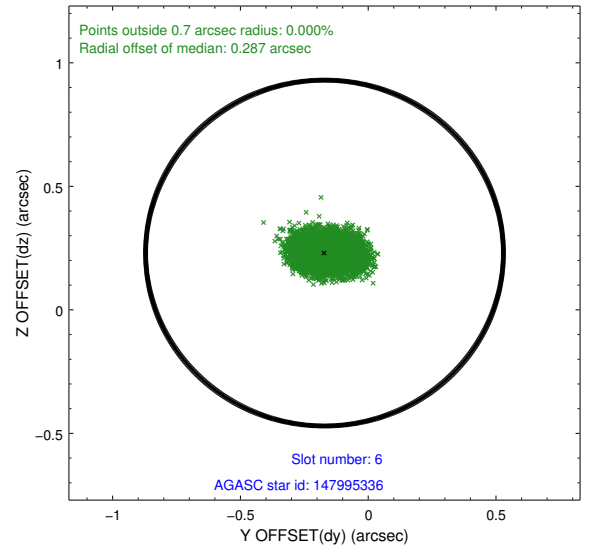
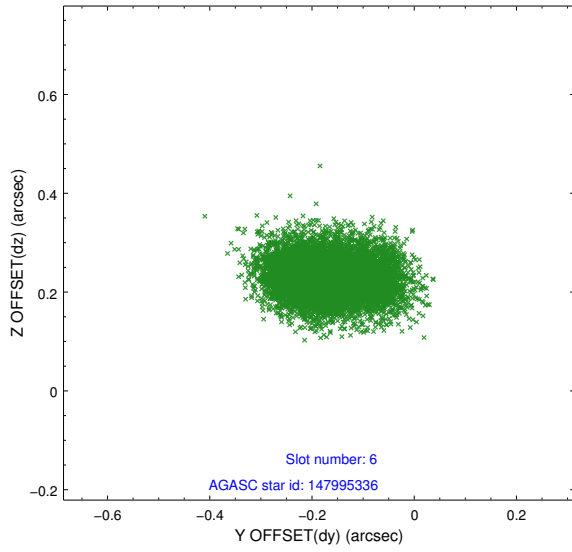
Time (s)



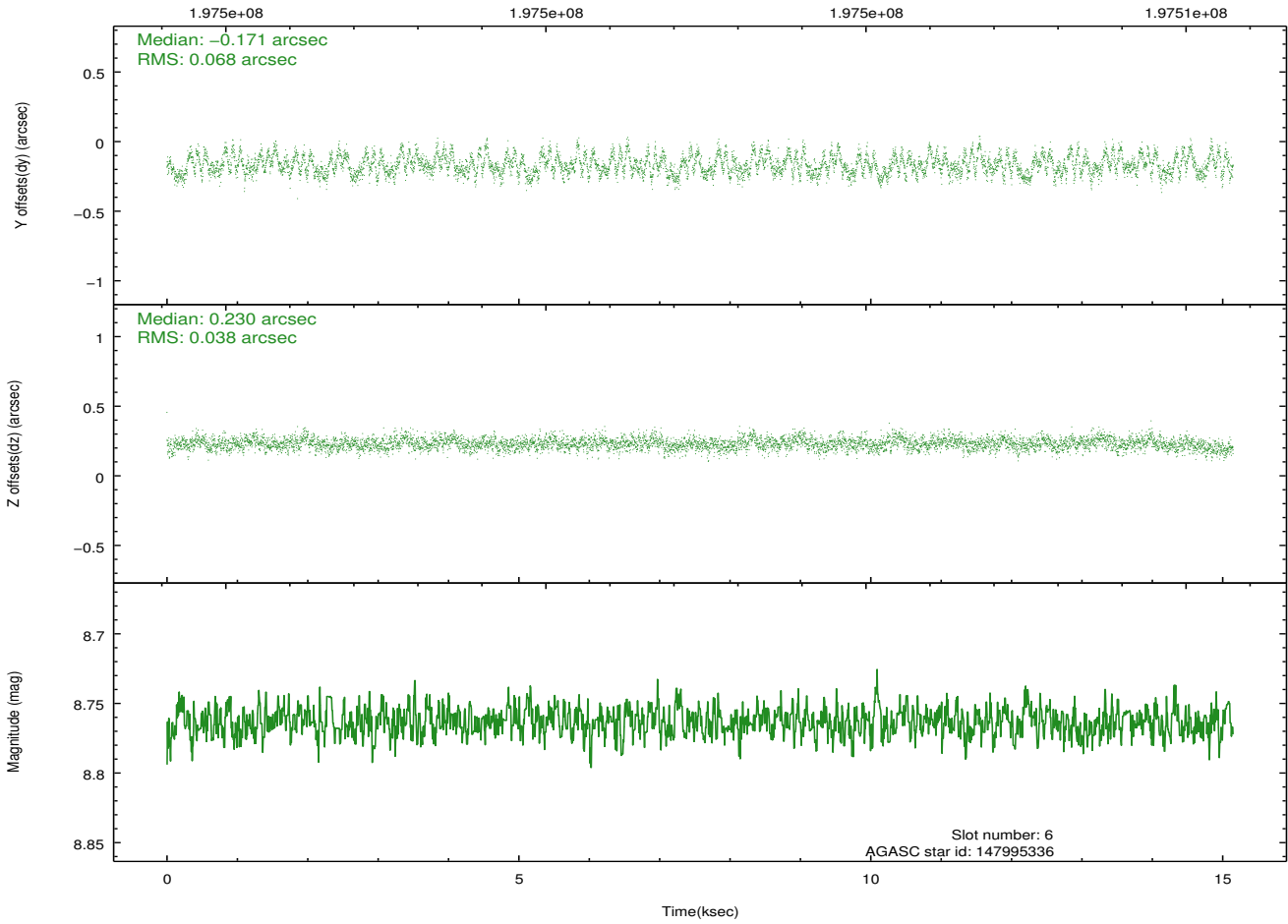
2.4.3 Slot 5



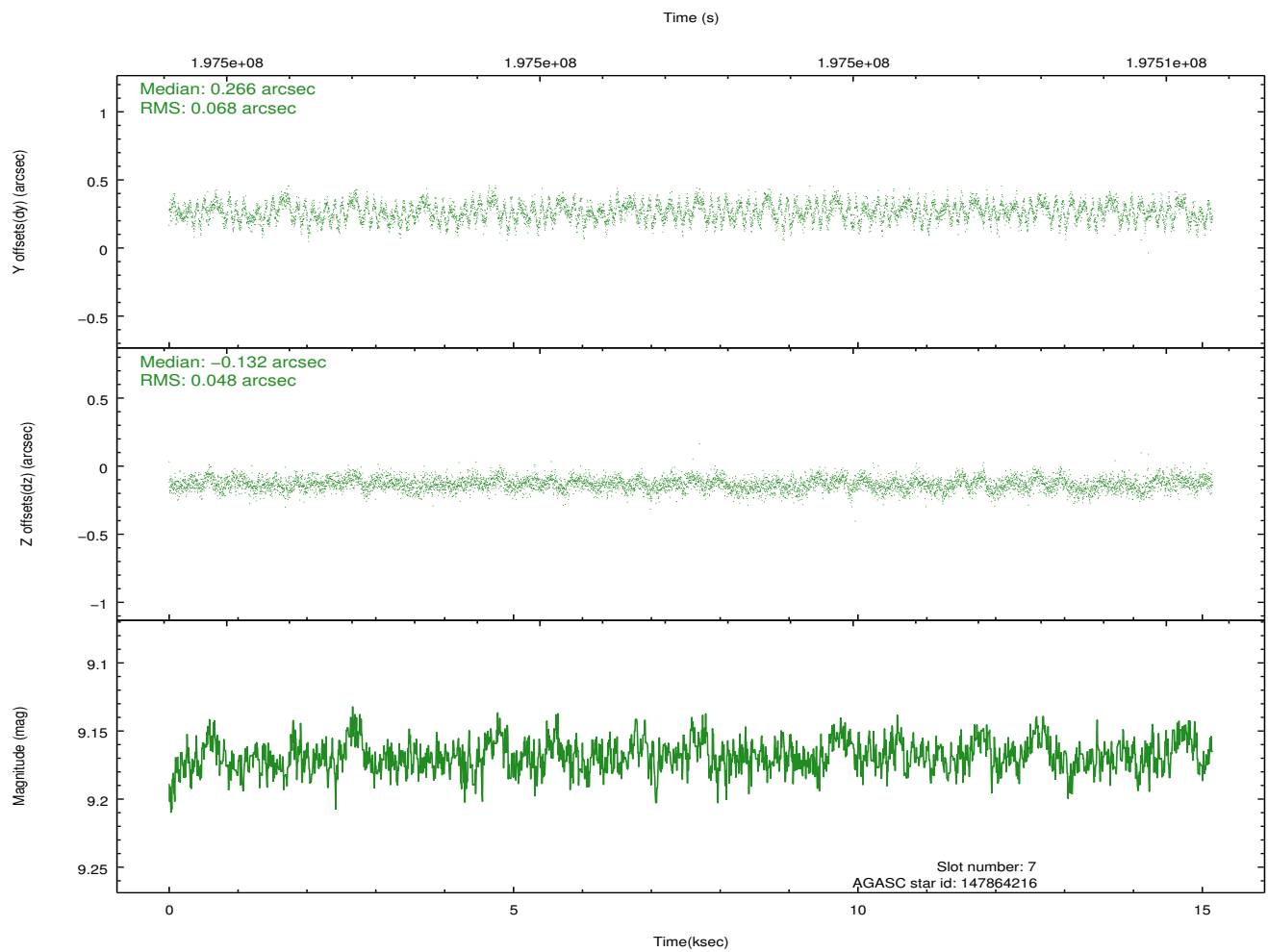
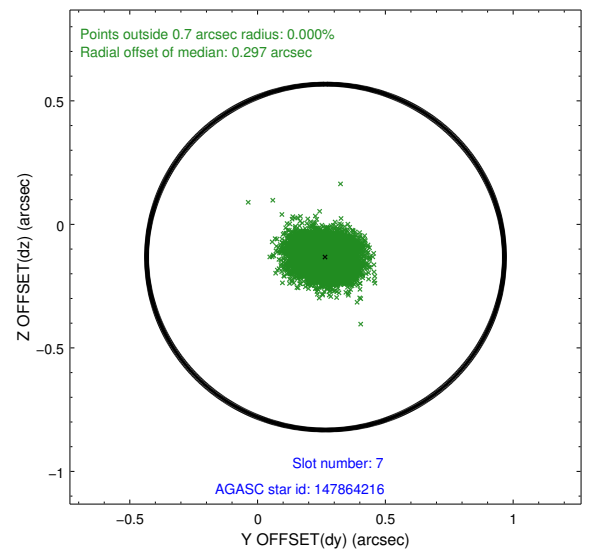
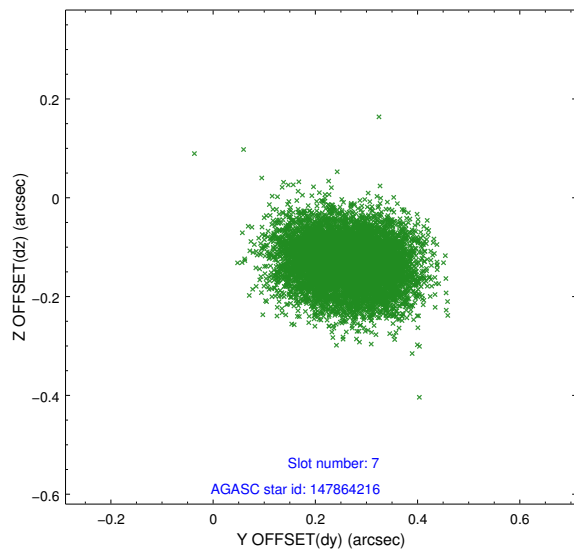
2.4.4 Slot 6



Time (s)

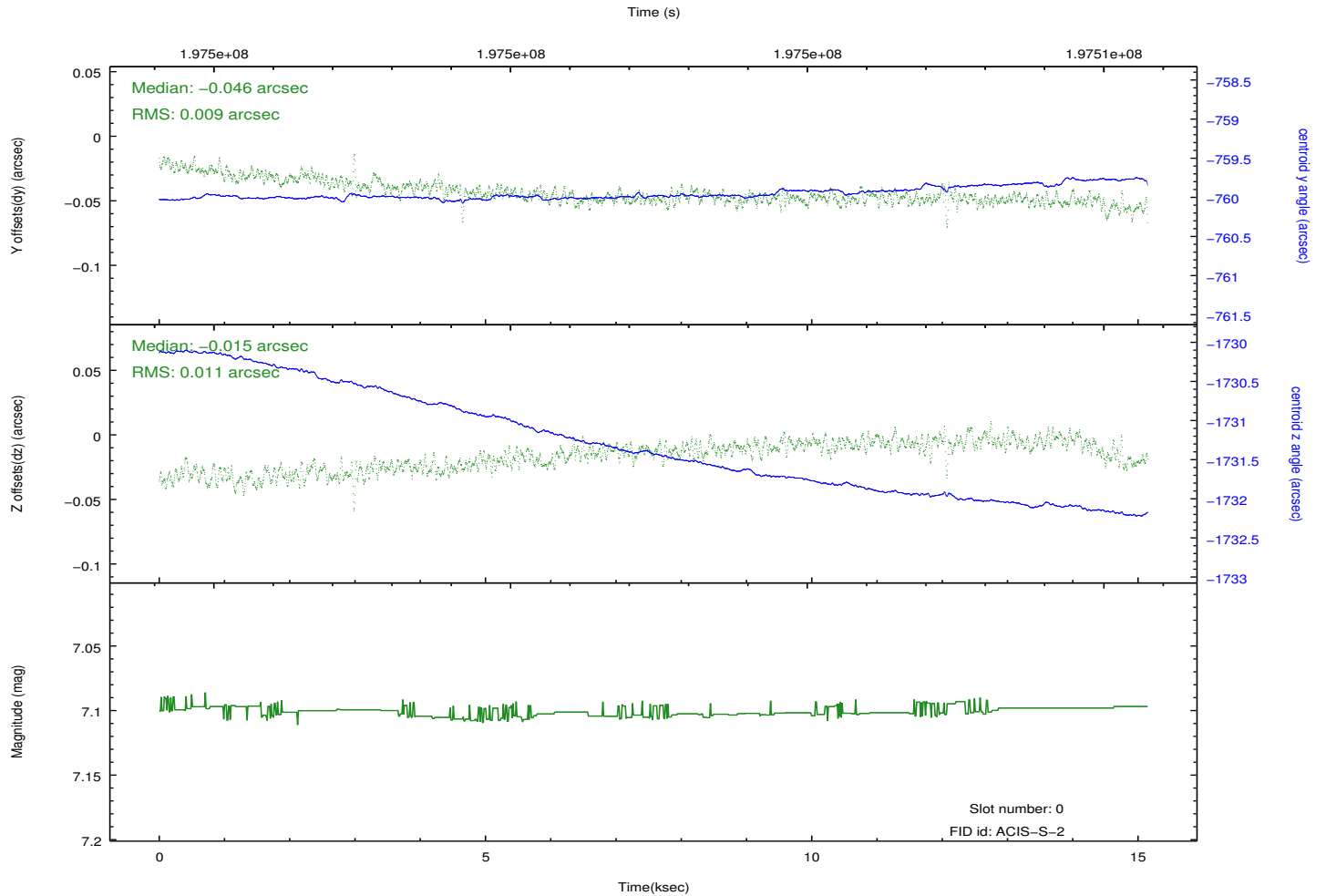
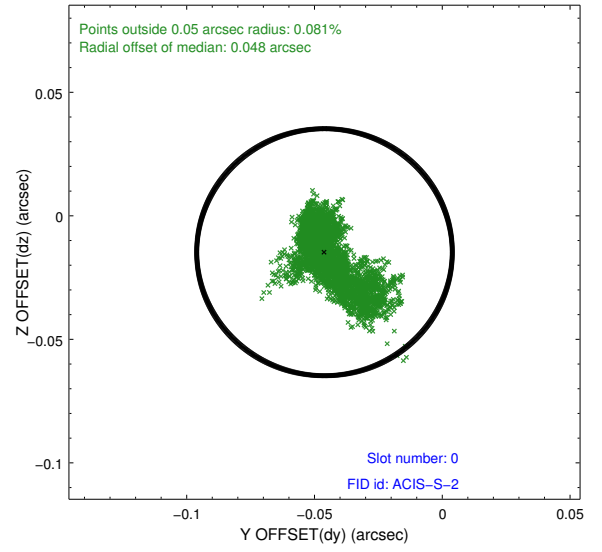
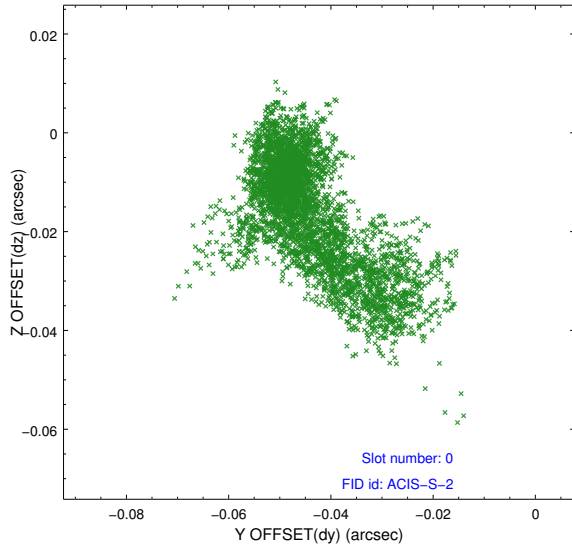


2.4.5 Slot 7

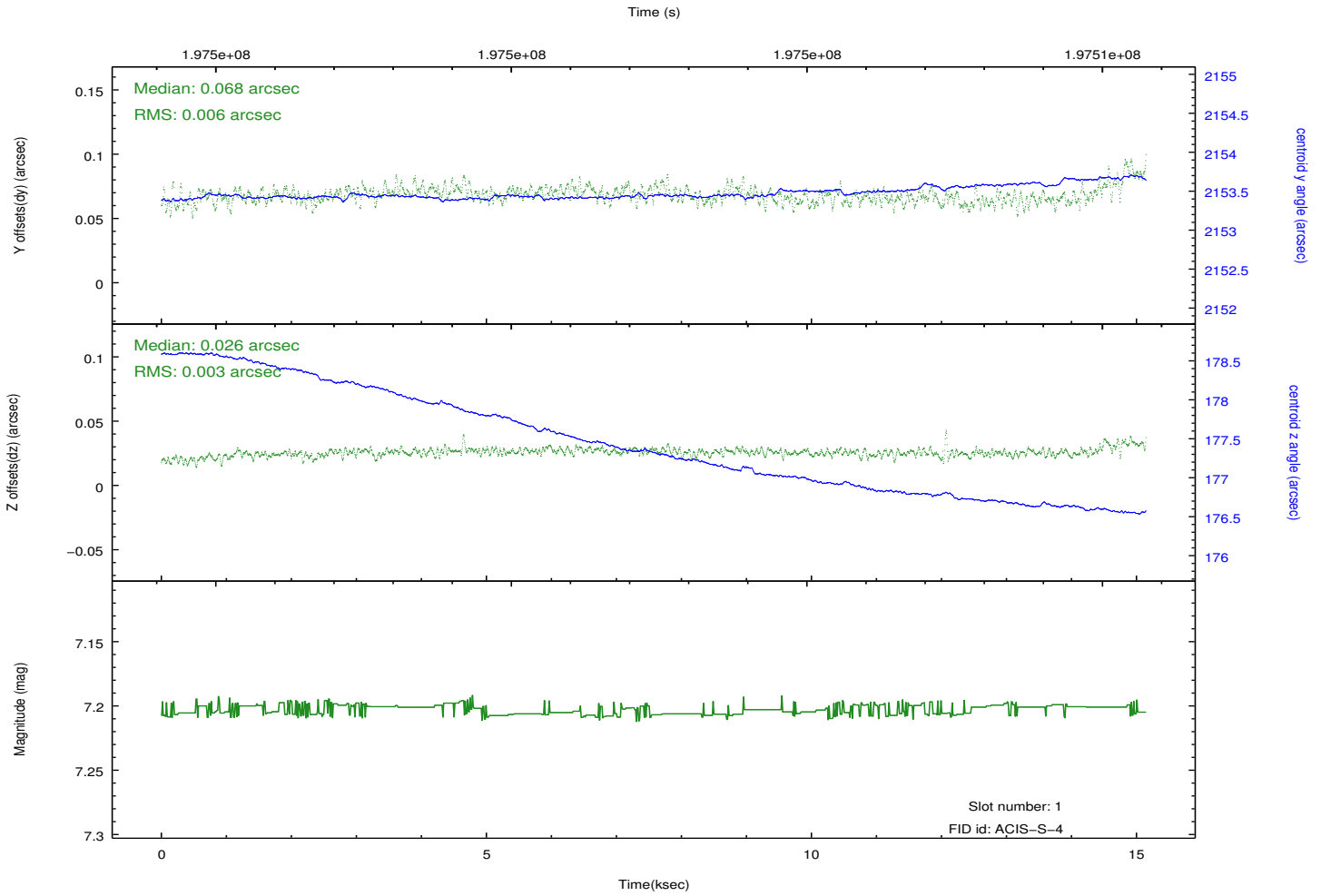
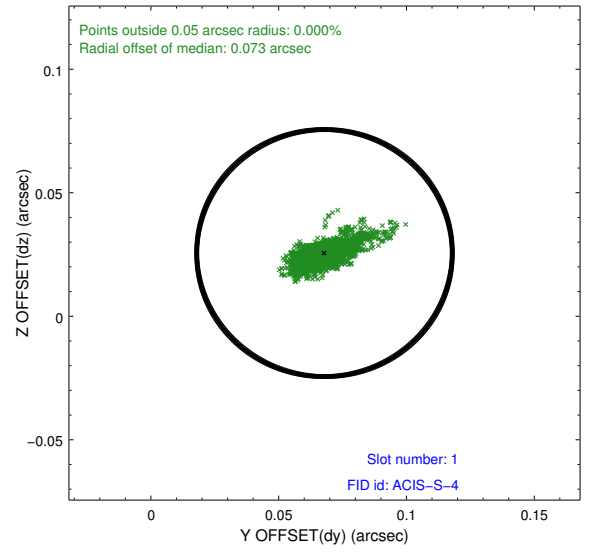
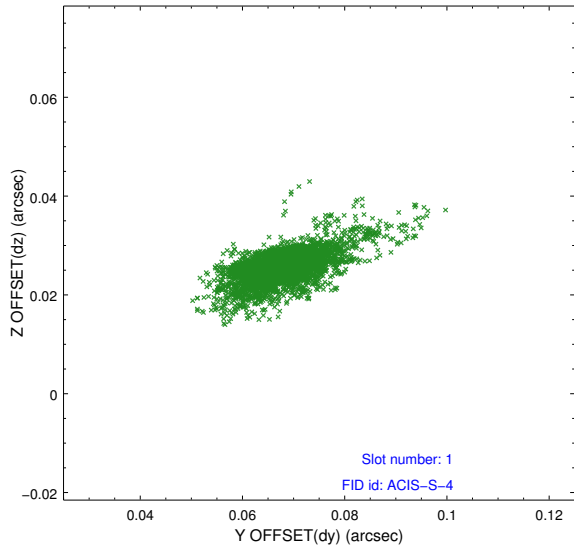


2.5 FID Slots

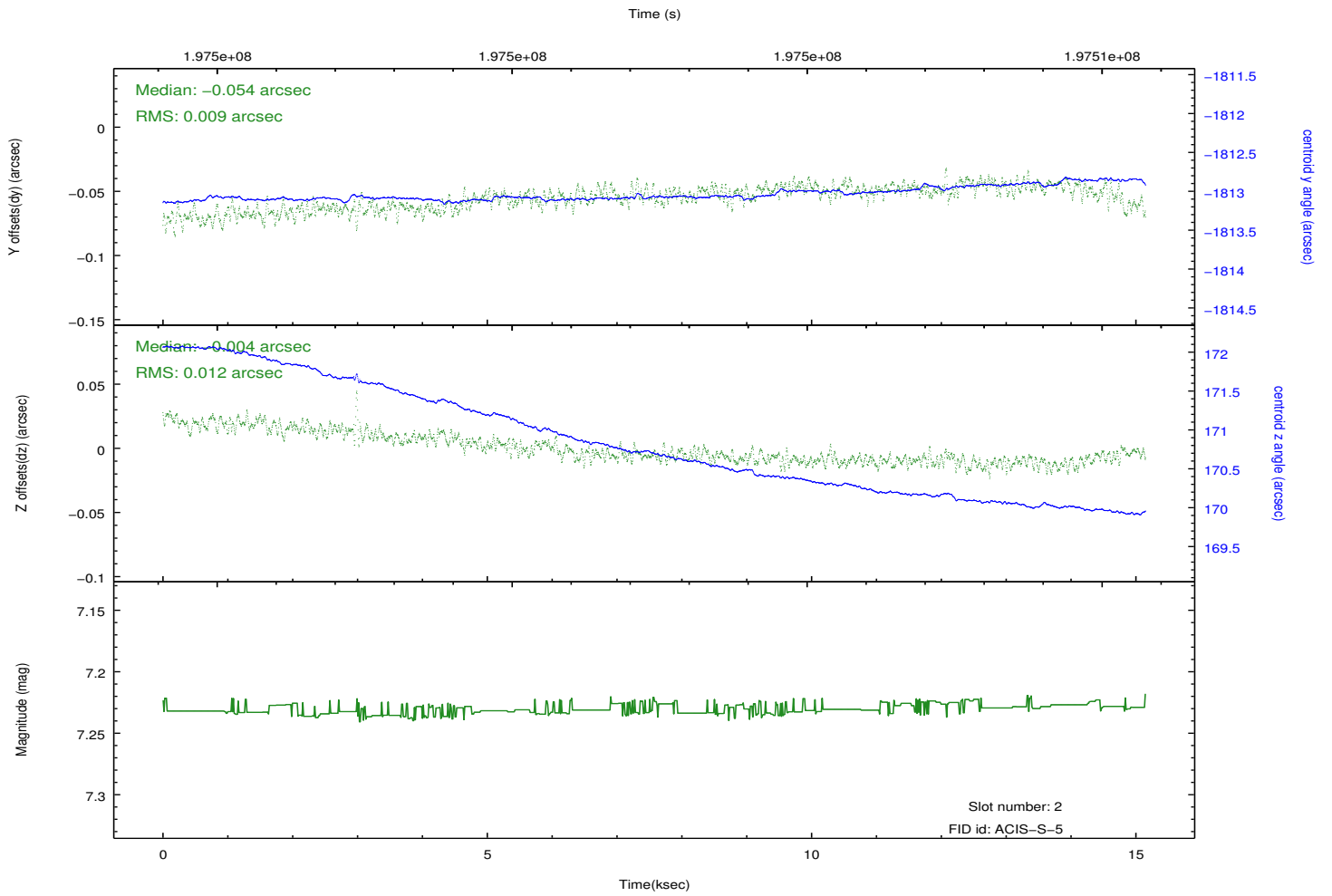
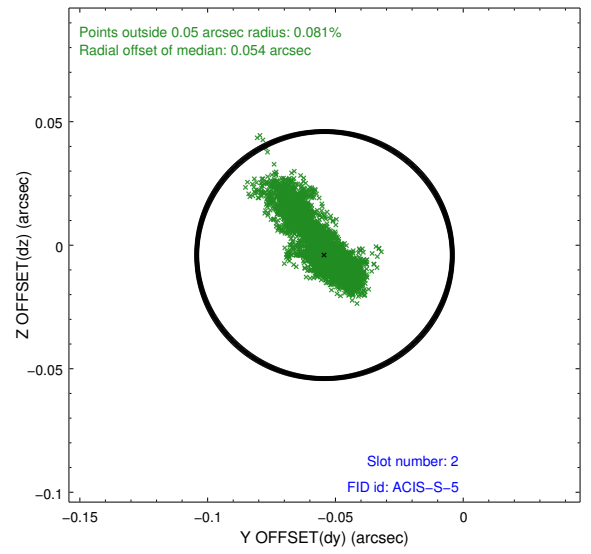
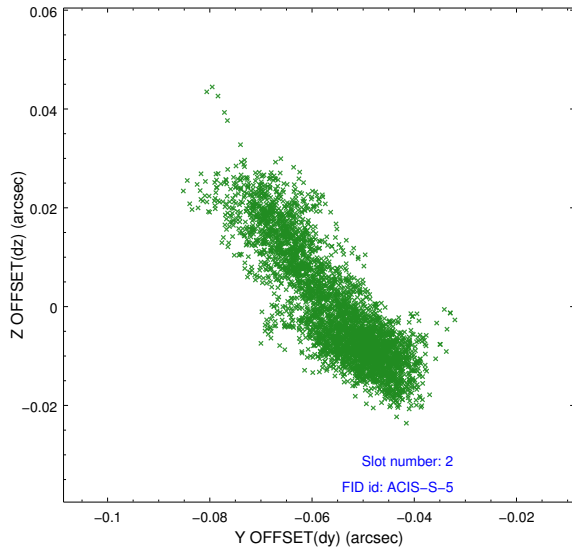
2.5.1 Slot 0



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)	2012.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.758

A.2 Comments