

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1999 - L2 Version 4
Chandra X-Ray Center

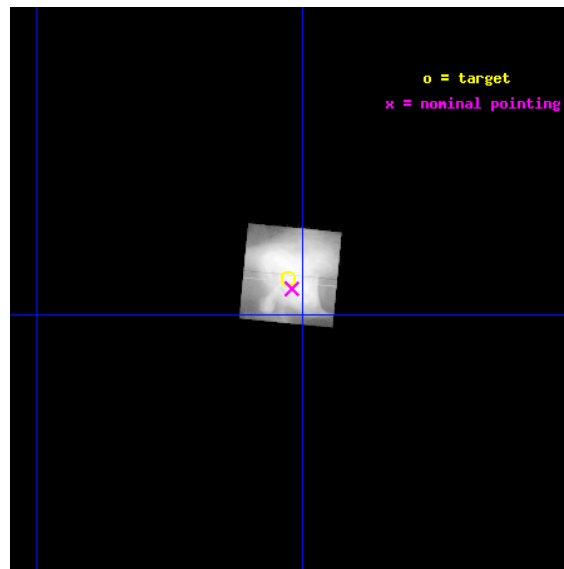
L2 Processing Date : Sep 11 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	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

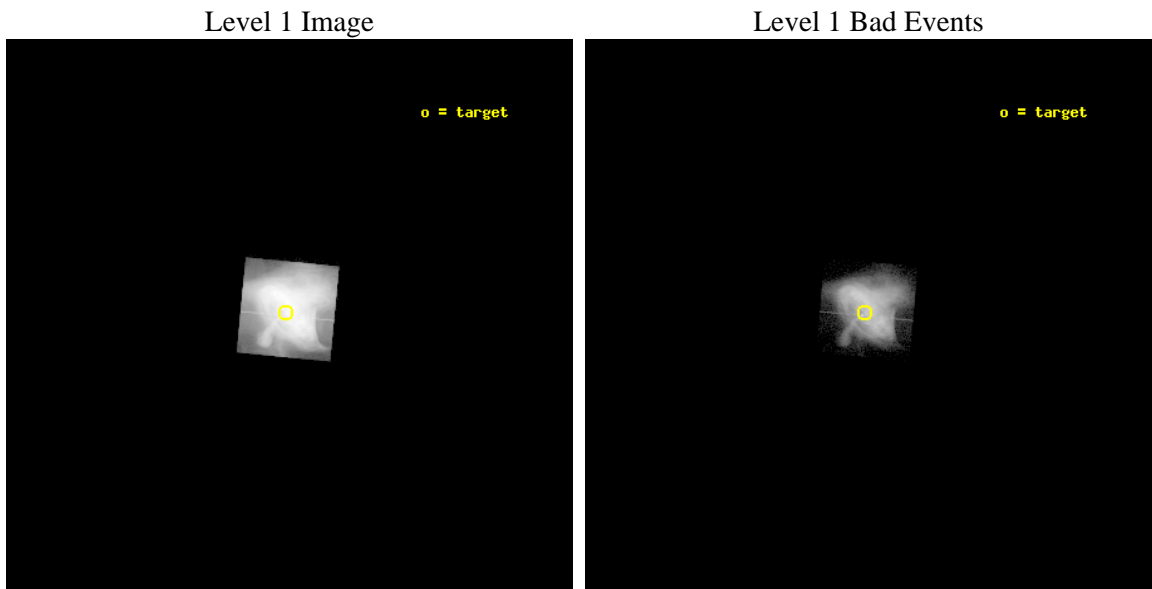
seq_num	500176	Sequence number
obs_id	1999	Observation id
title	COORDINATED CHANDRA/HST OBSERVATIONS OF THE CRAB NEBULA	Proposal t
observer	PROF. JEFF HESTER	Principal investigator
object	CRAB NEBULA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.630217862573	Nominal RA [deg]
dec_nom	22.011352896633	Nominal Dec [deg]
roll_nom	275.47275580687	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15232.779521033	Sum of GTIs [s]
livetime	2663.3527155005	Livetime [s]
ontime7	15232.779521033	Sum of GTIs [s]
l2events	9124342	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15232.779521033	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime7	15232.779521033	Sum of GTIs [s]
date	2012-09-06T14:28:00	Date and time of file creation	l1events	10326122	Number of level 1 events
revision	4	Processing version of data			

2.1.3 Events

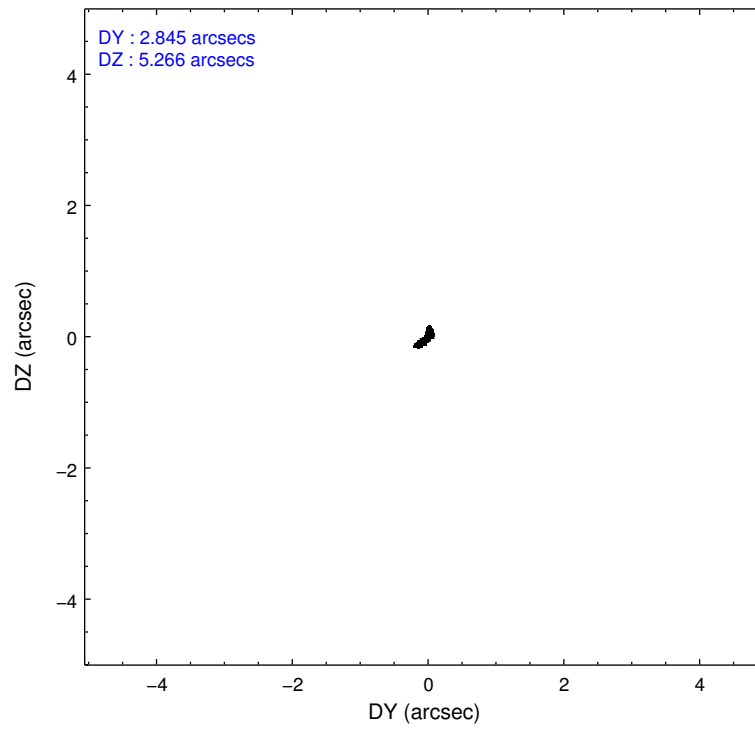
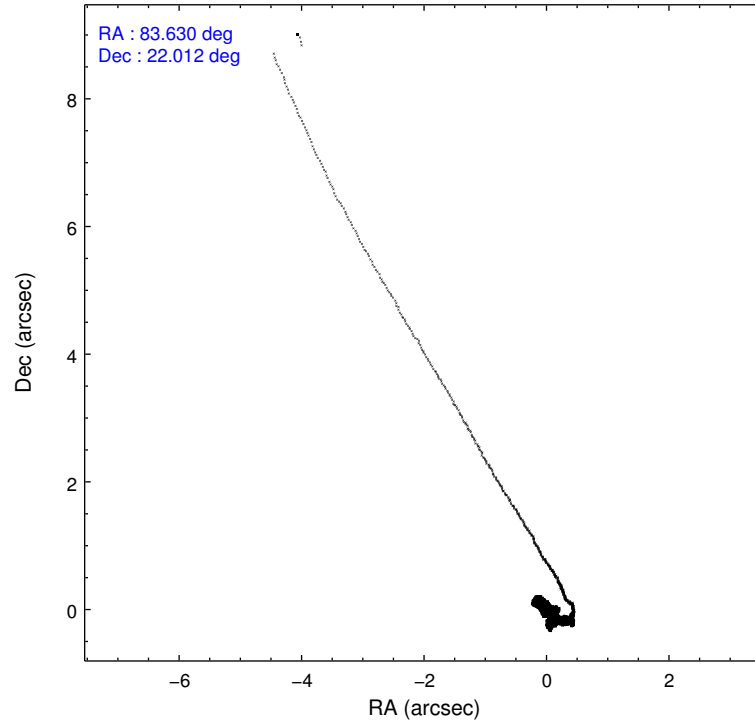
	ccd 7
level 1 events	10326122
rejected events	1101887
rejected %	10%

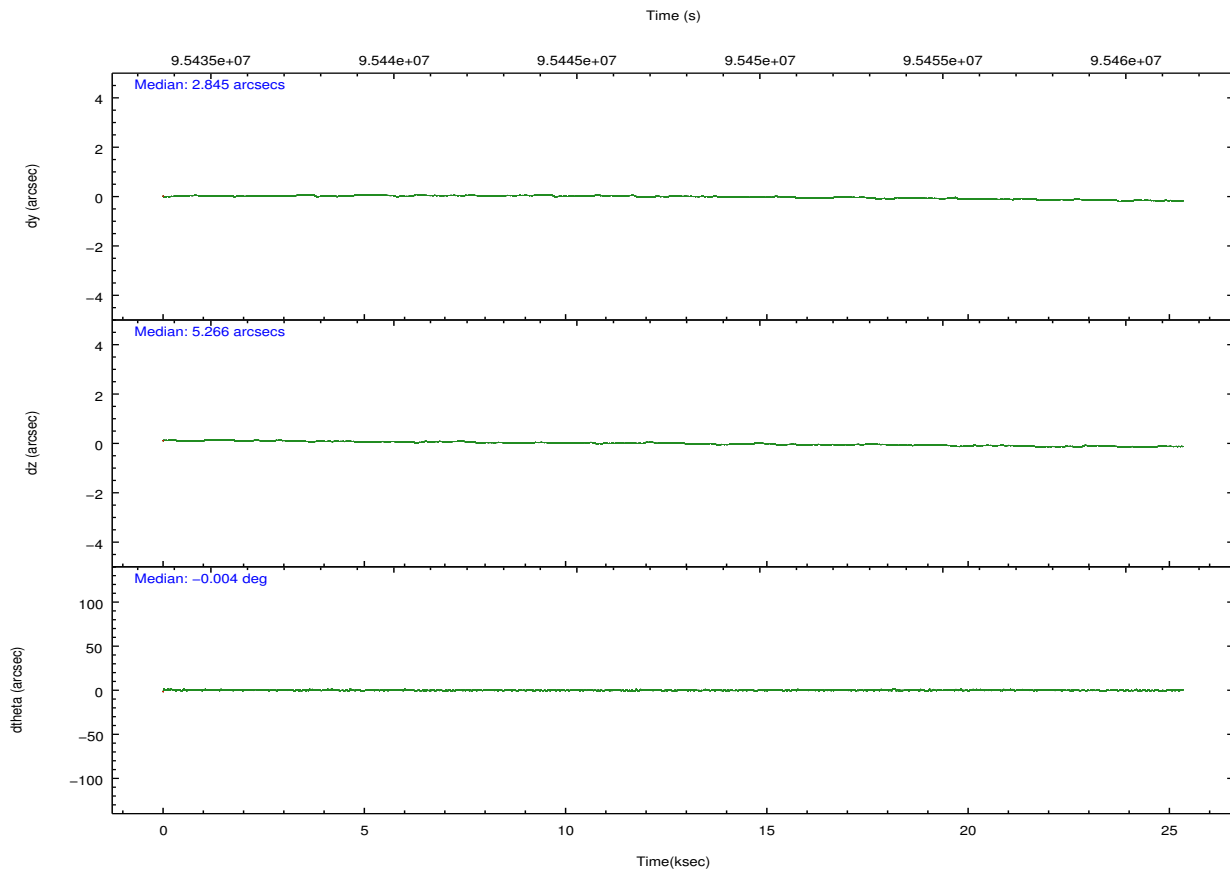
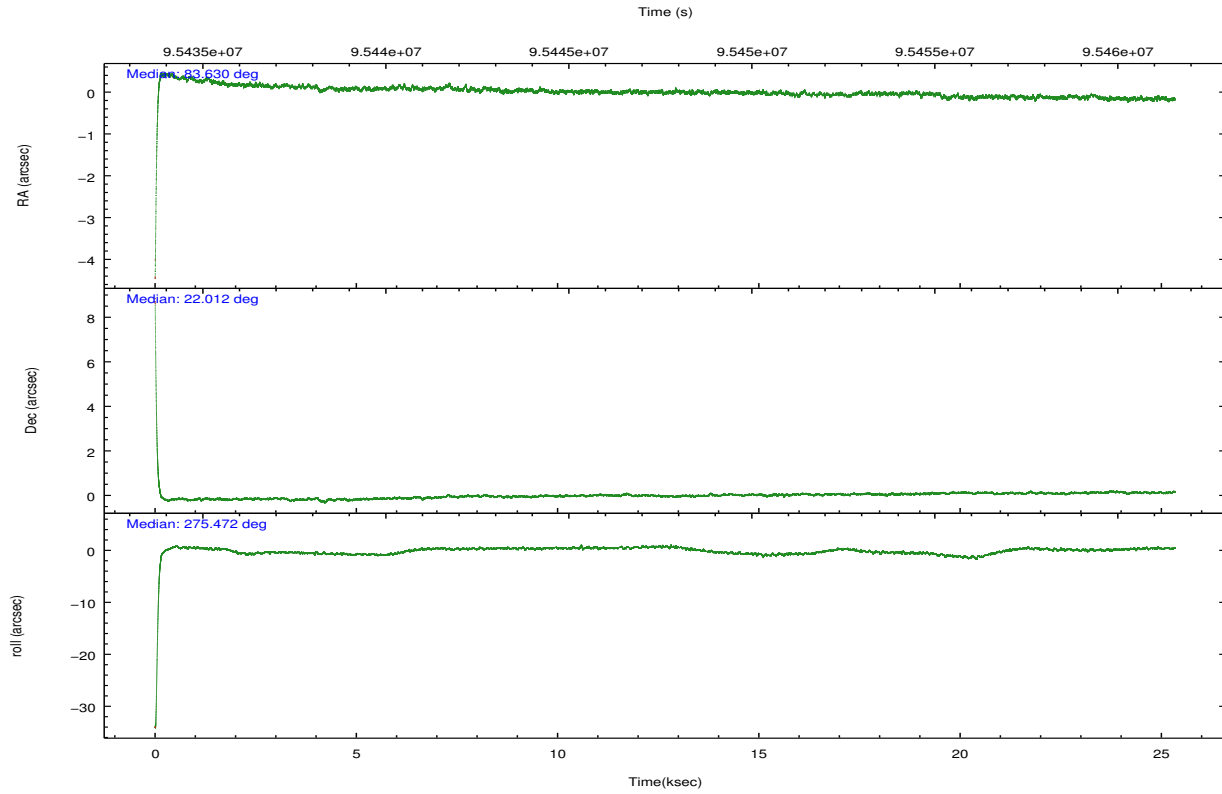
	ccd 7
grade 0 events	2143429
	20%
grade 1 events	140510
	1%
grade 2 events	2464870
	23%
grade 3 events	1091065
	10%
grade 4 events	1063201
	10%
grade 5 events	381453
	3%
grade 6 events	2532105
	24%
grade 7 events	509489
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.612913	83.6302178625734	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	22.033463	22.01135289663311	Subarray start row	39	39
[deg] Pointing Roll	275.322631	275.4727558068741	Subarray row count	300	300
[s] Window start time (MET)	95288464.184000	95288464.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	95475664.184000	95475664.184000	[s] Primary exposure time	0.000000	0.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.366523	-182.3582601915437			
[mm] SIM translation stage offset	-7.766	-7.774262391464134			
[s] Observation start time (MET)	95435297.184000	95434263.179636			
Observation start date	2001-01-09T13:47:13	2001-01-09T13:31:03			
[s] Observation end time (MET)	95460297.184000	95461012.605663			
Observation end date	2001-01-09T20:43:53	2001-01-09T20:56:52			
Read mode	TIMED	TIMED			

2.3 Aspect



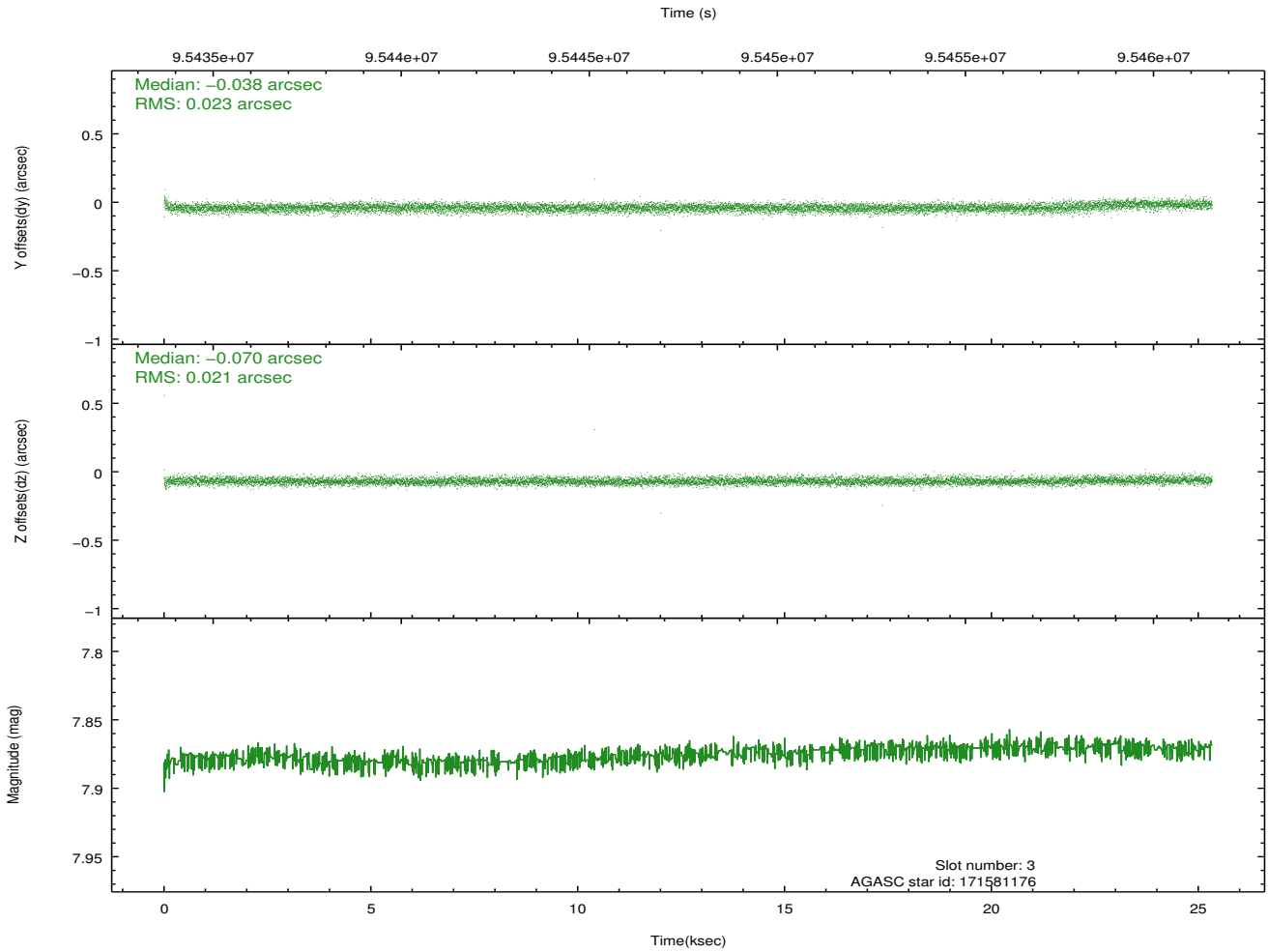
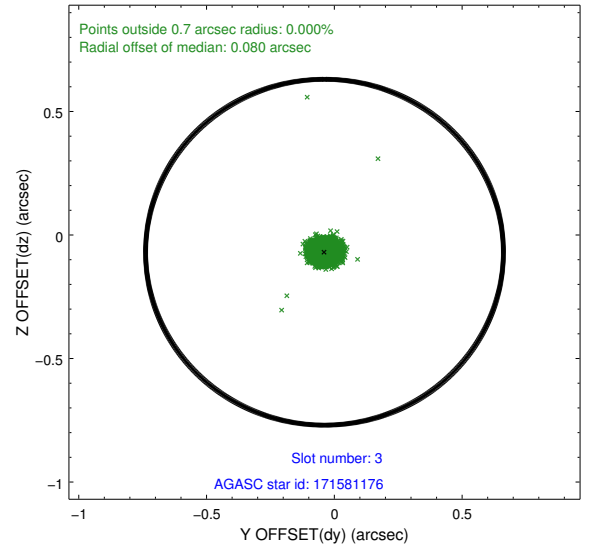
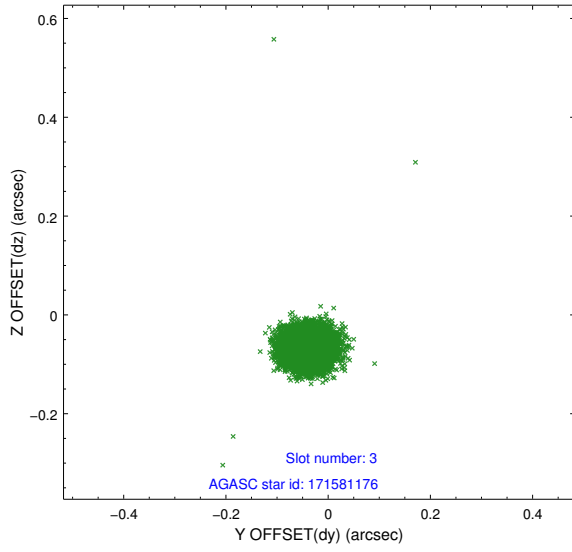


Slot Statistics

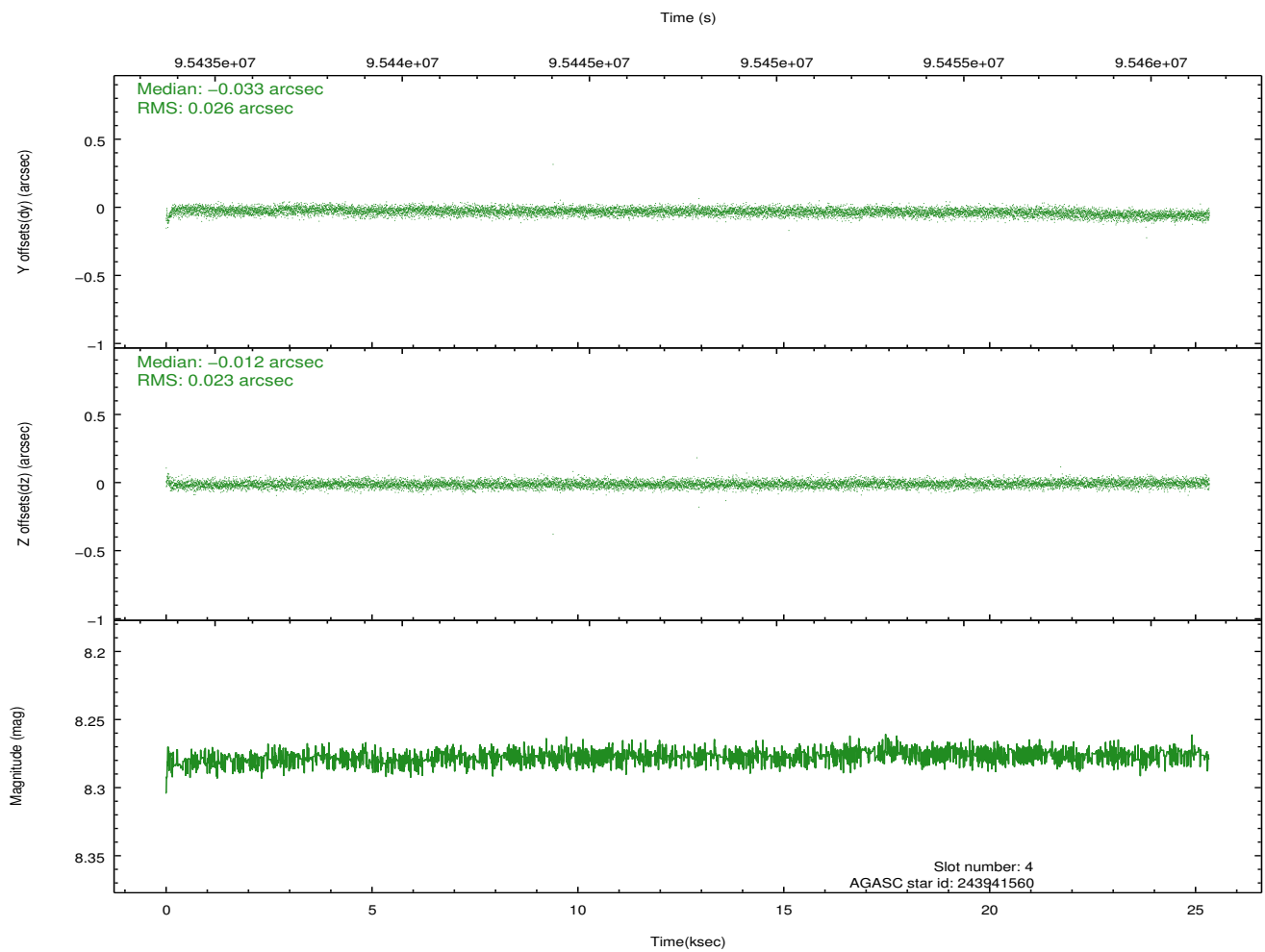
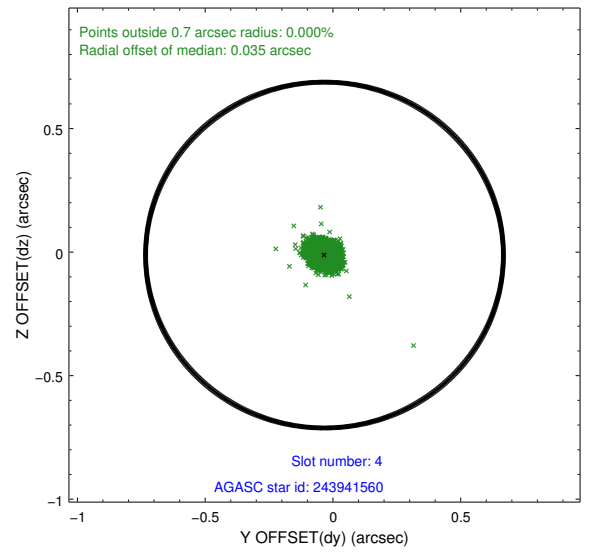
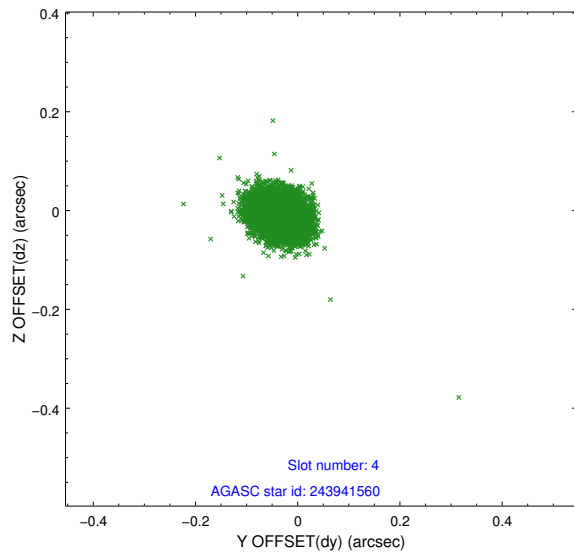
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	6180	-0.049	-0.045	0.007	0.027	0.000000	0.000000	-754.94	-1886.59
1	FID	ACIS-S-4	7.19	6180	0.026	0.022	0.007	0.022	0.000000	0.000000	2158.35	21.82
2	FID	ACIS-S-6	7.41	6180	-0.004	0.031	0.008	0.013	0.000000	0.000000	407.23	659.35
3	GUIDE	171581176	7.88	12357	-0.038	-0.070	0.032	0.053	83.918863	21.403256	2353.80	810.48
4	GUIDE	243941560	8.28	12352	-0.033	-0.012	0.036	0.060	83.733264	22.568598	-1880.31	576.88
5	GUIDE	171585880	8.41	12359	-0.112	-0.067	0.037	0.061	83.676260	22.176319	-492.03	257.73
6	GUIDE	171586976	8.54	12355	0.061	0.124	0.039	0.065	83.857953	22.438065	-1374.53	946.96
7	GUIDE	171597832	9.16	12356	0.125	0.022	0.054	0.091	83.183230	21.366702	2255.21	-1656.99

2.4 Star Slots

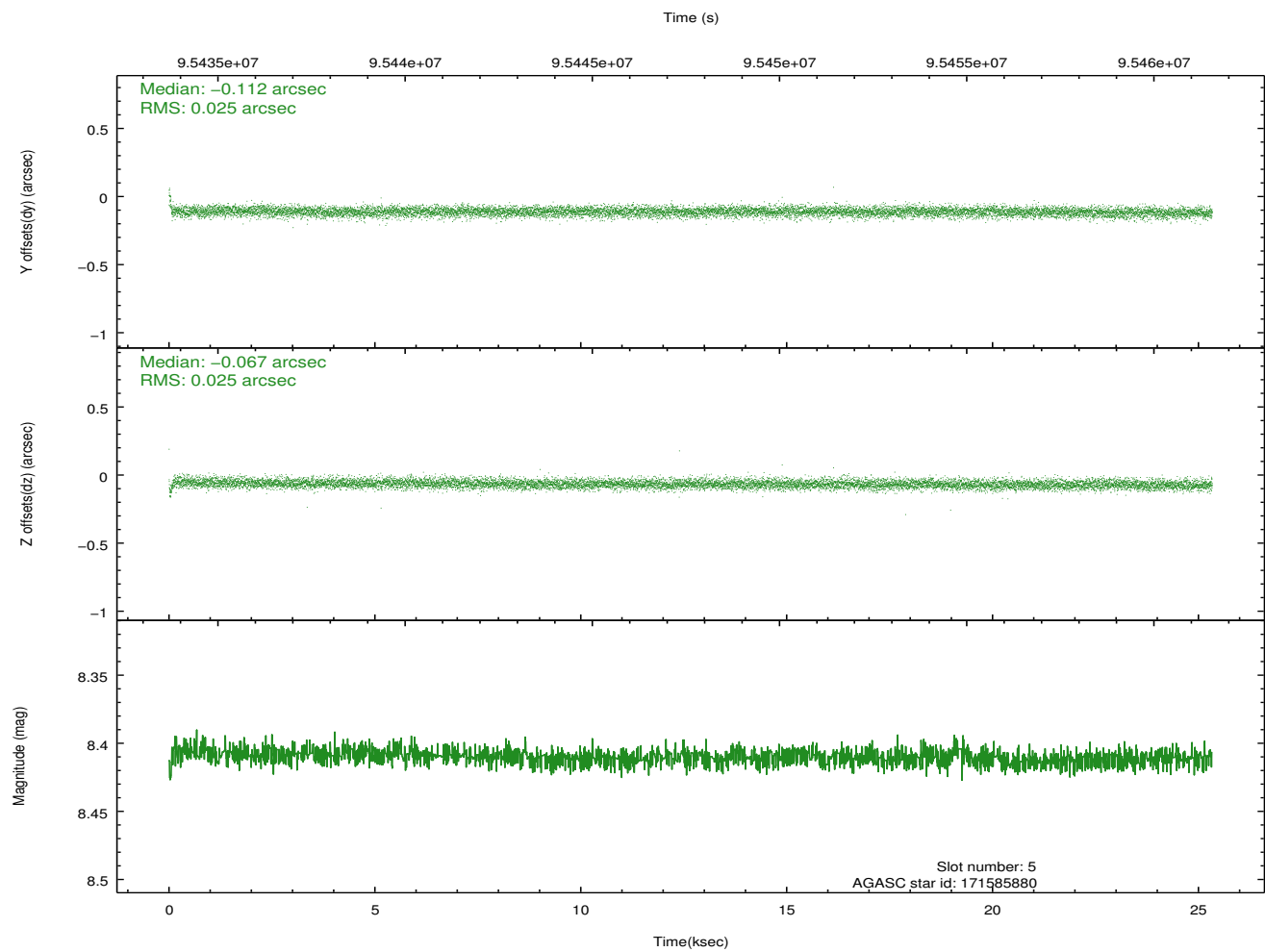
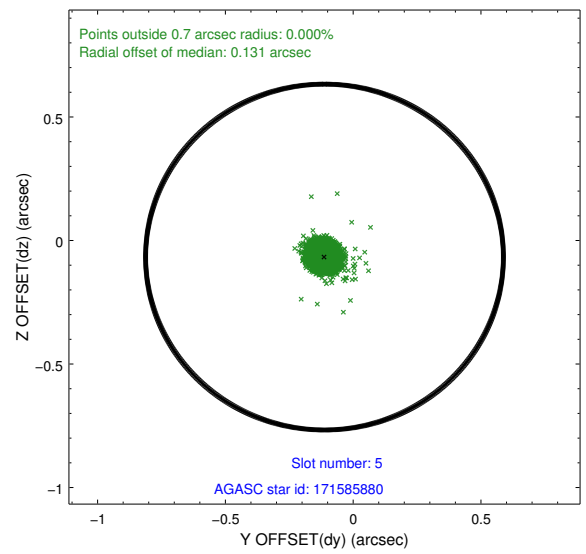
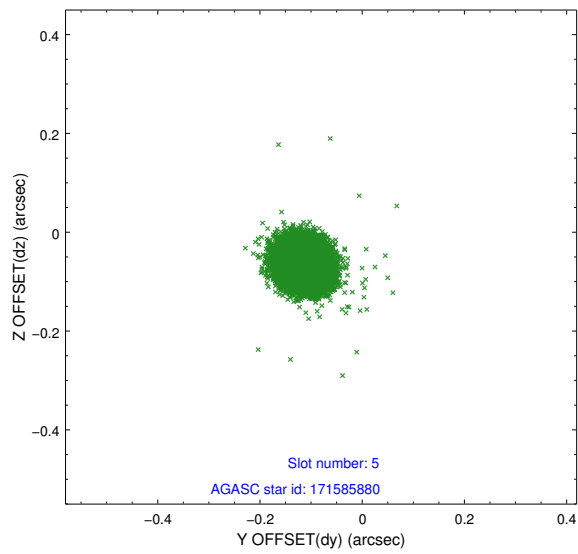
2.4.1 Slot 3



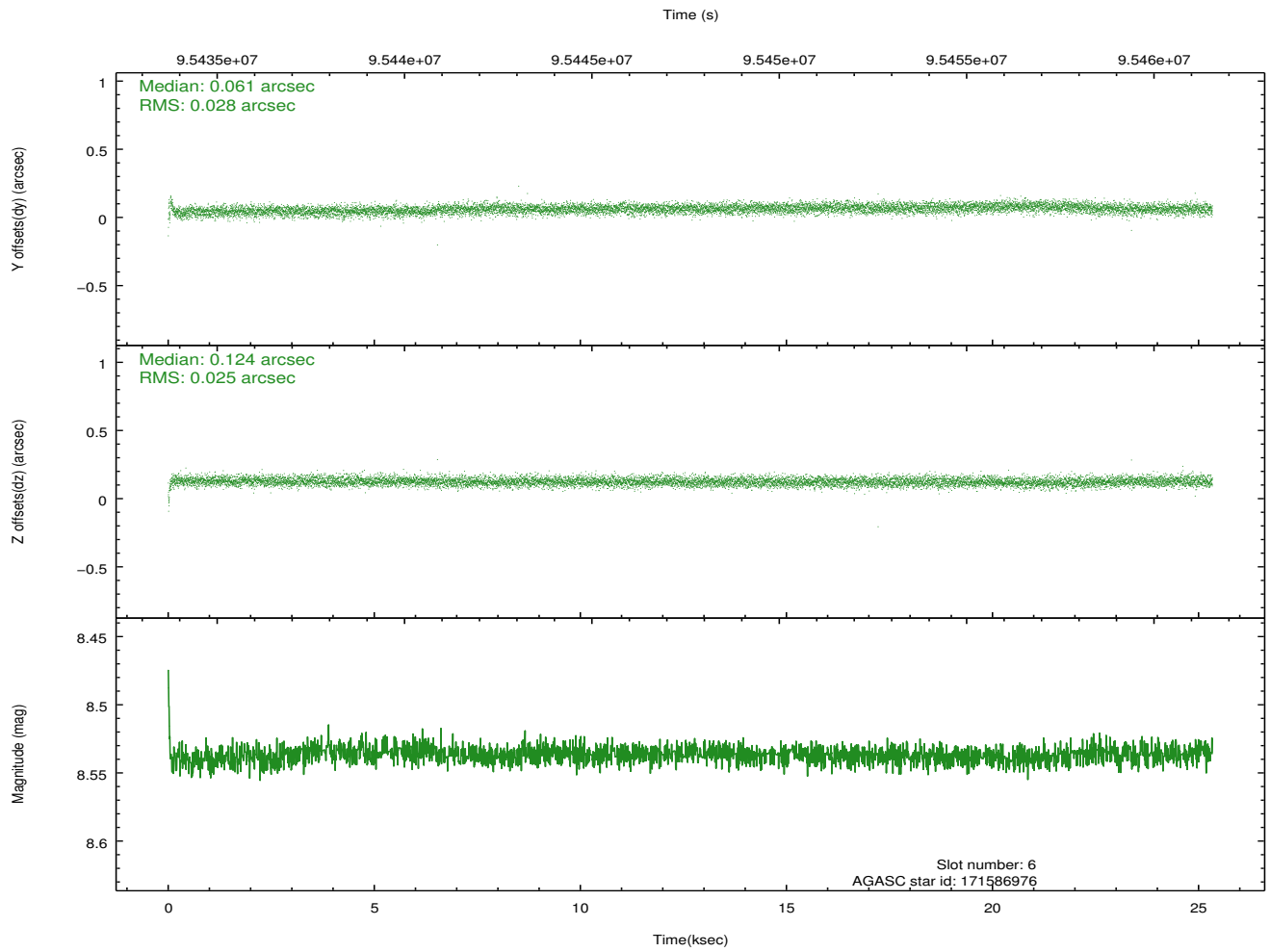
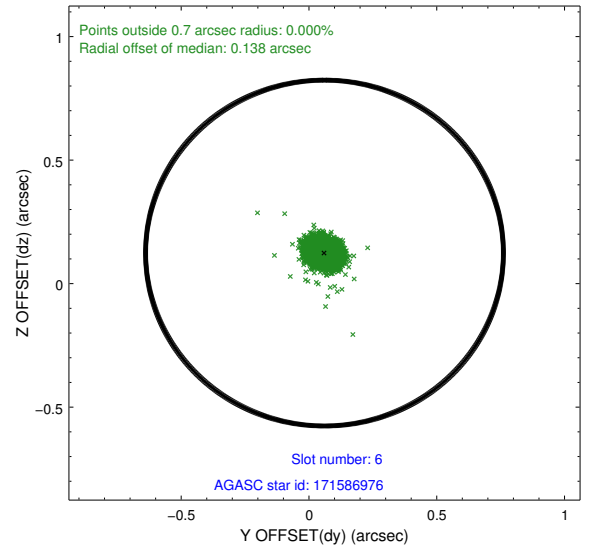
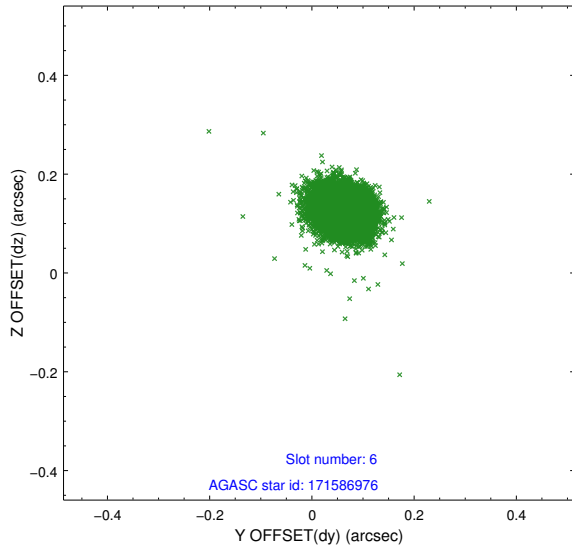
2.4.2 Slot 4



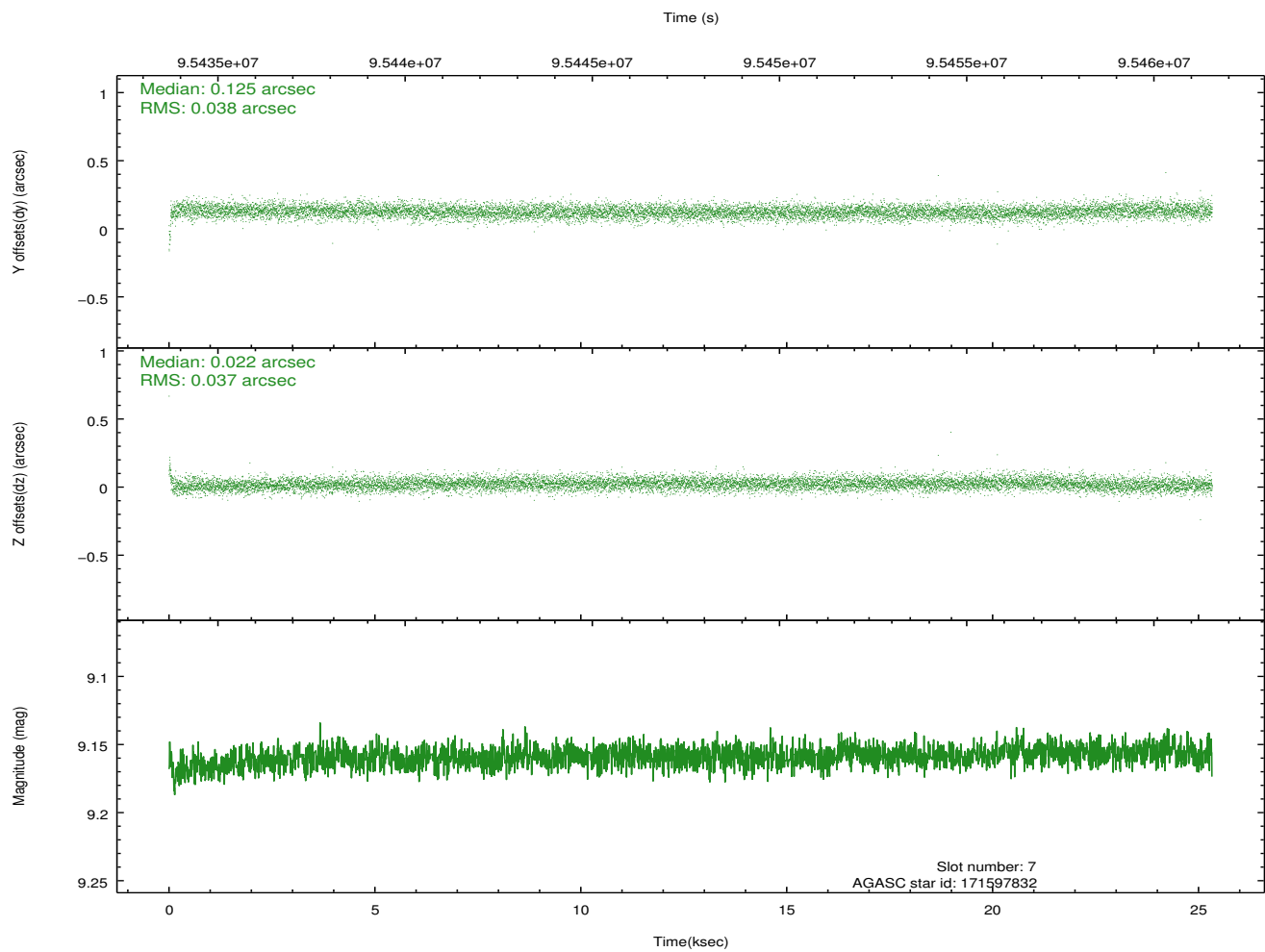
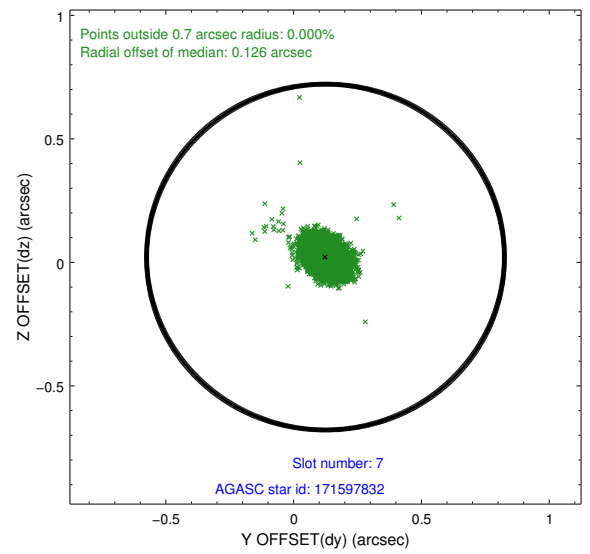
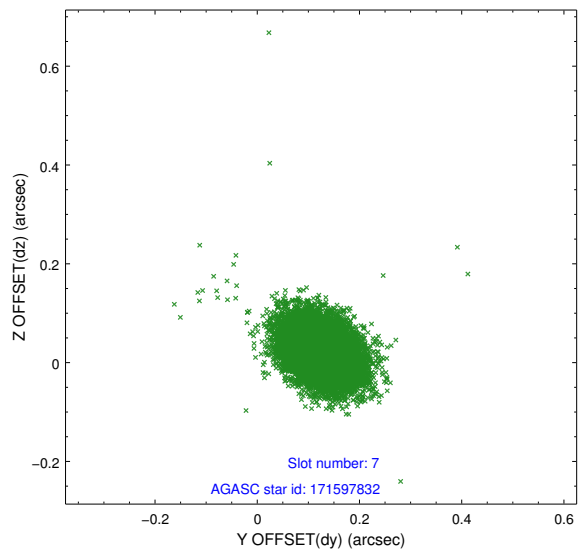
2.4.3 Slot 5



2.4.4 Slot 6

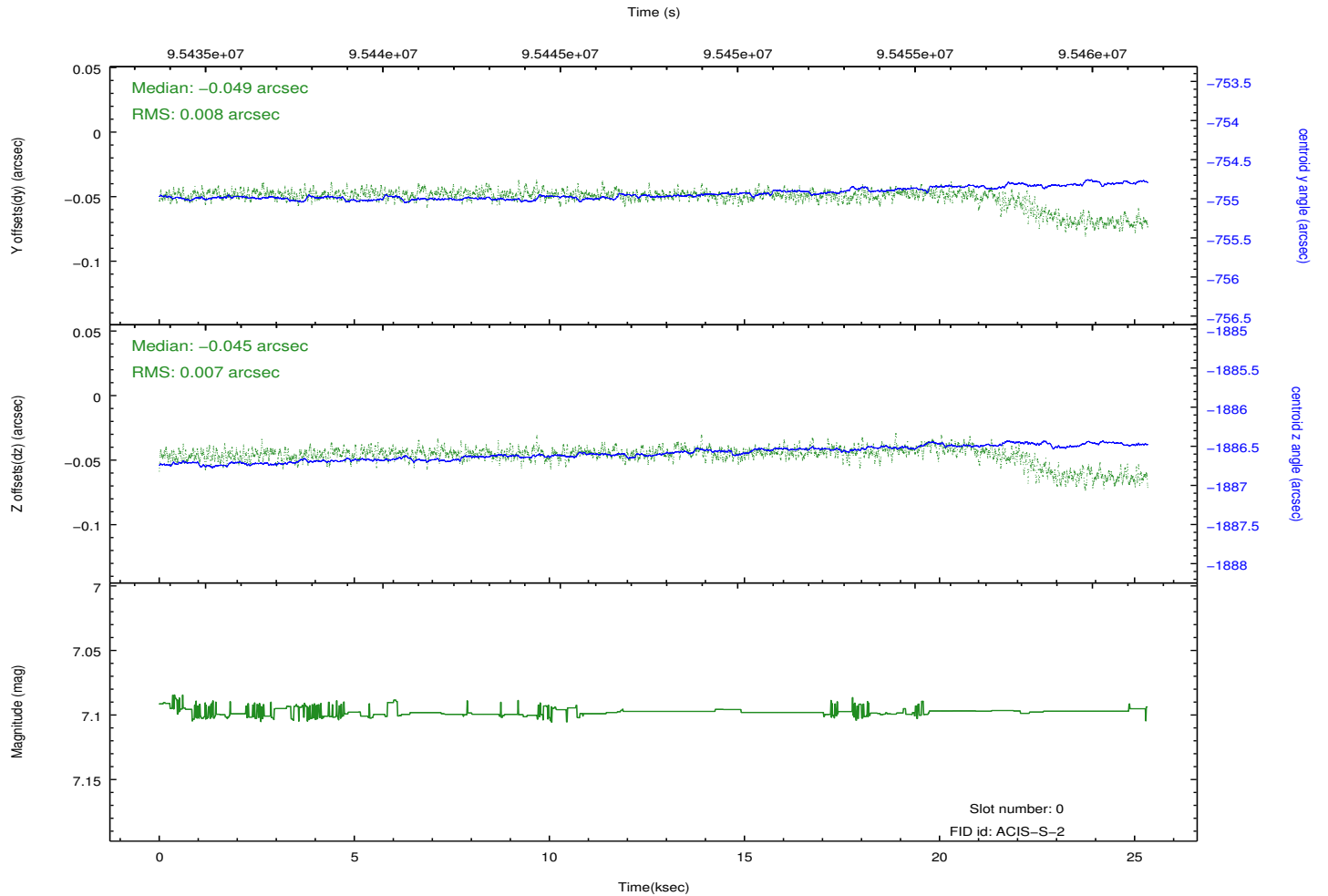
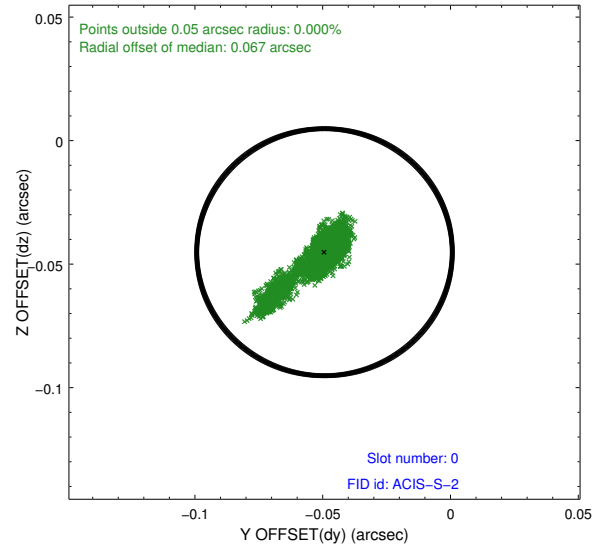
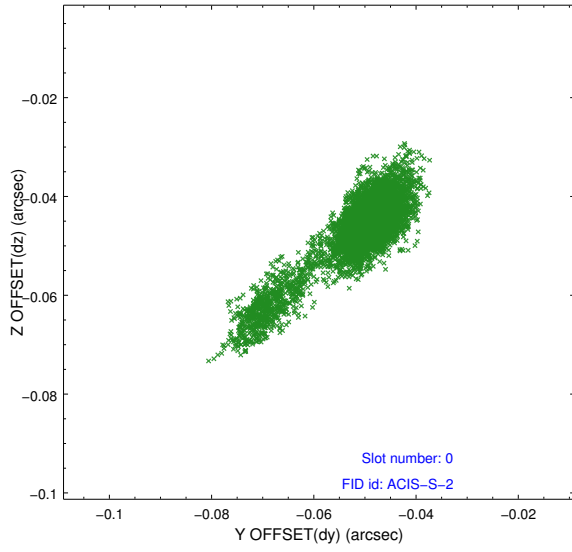


2.4.5 Slot 7

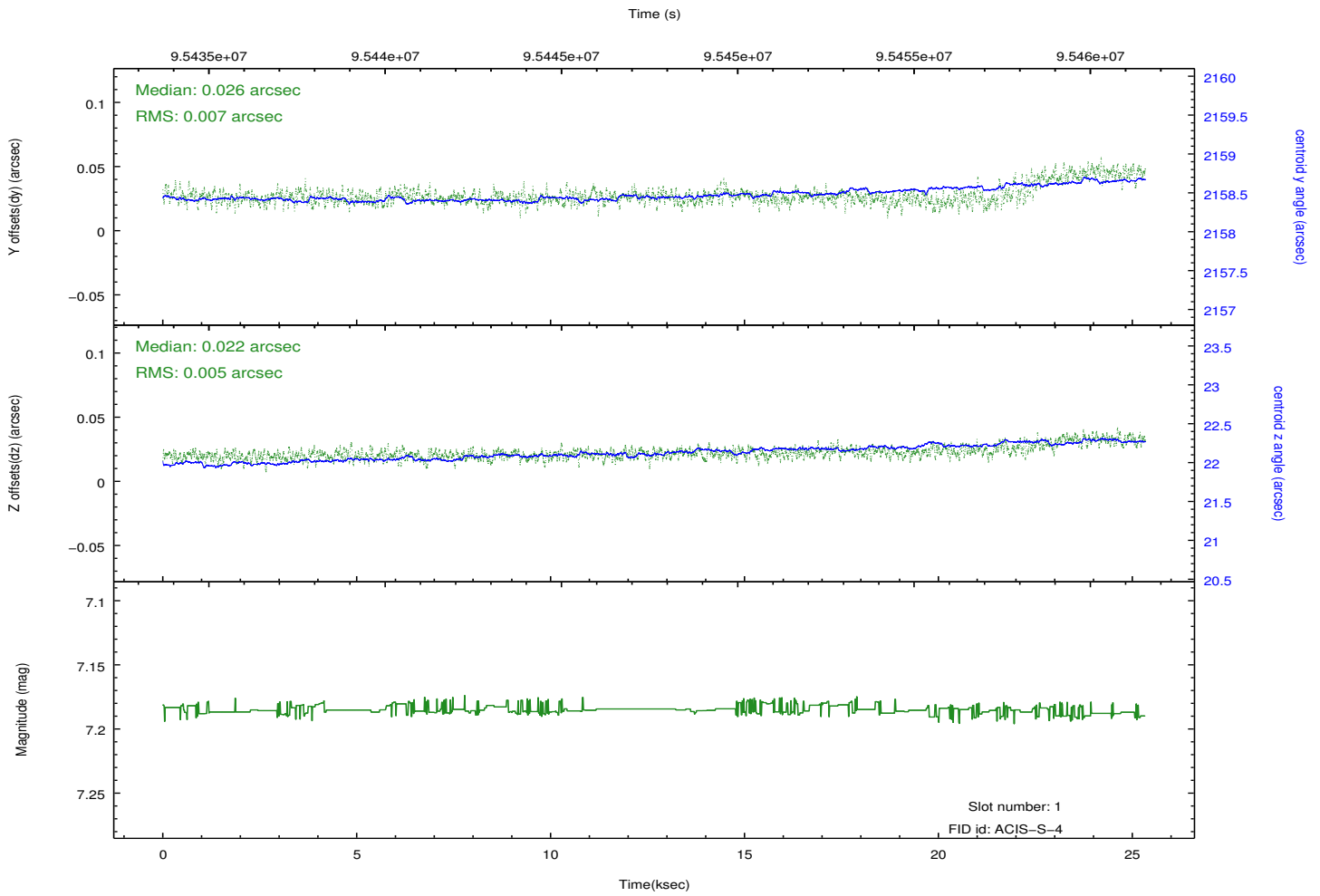
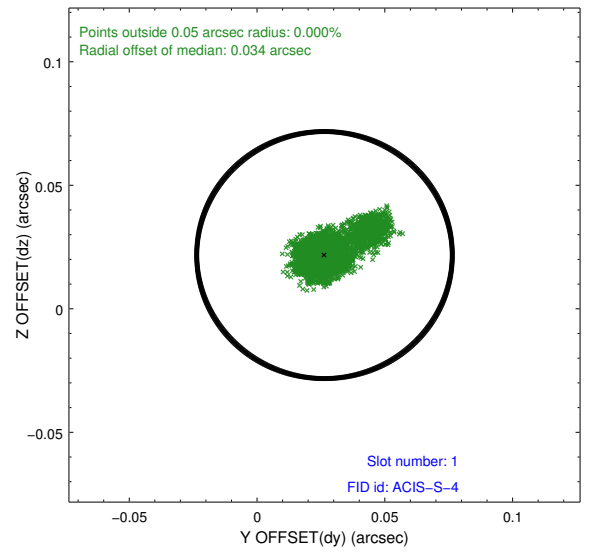
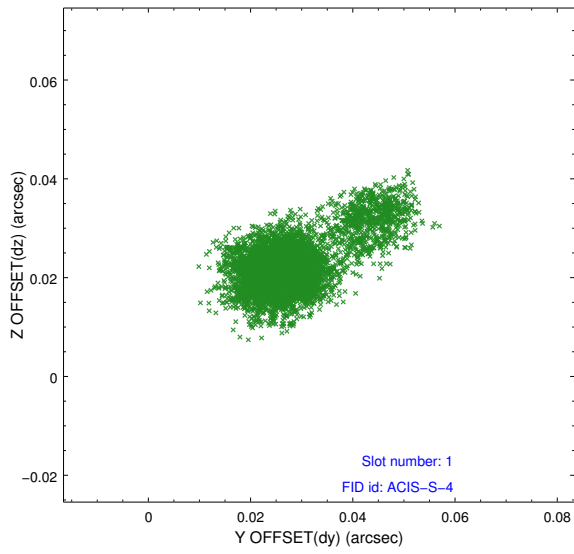


2.5 FID Slots

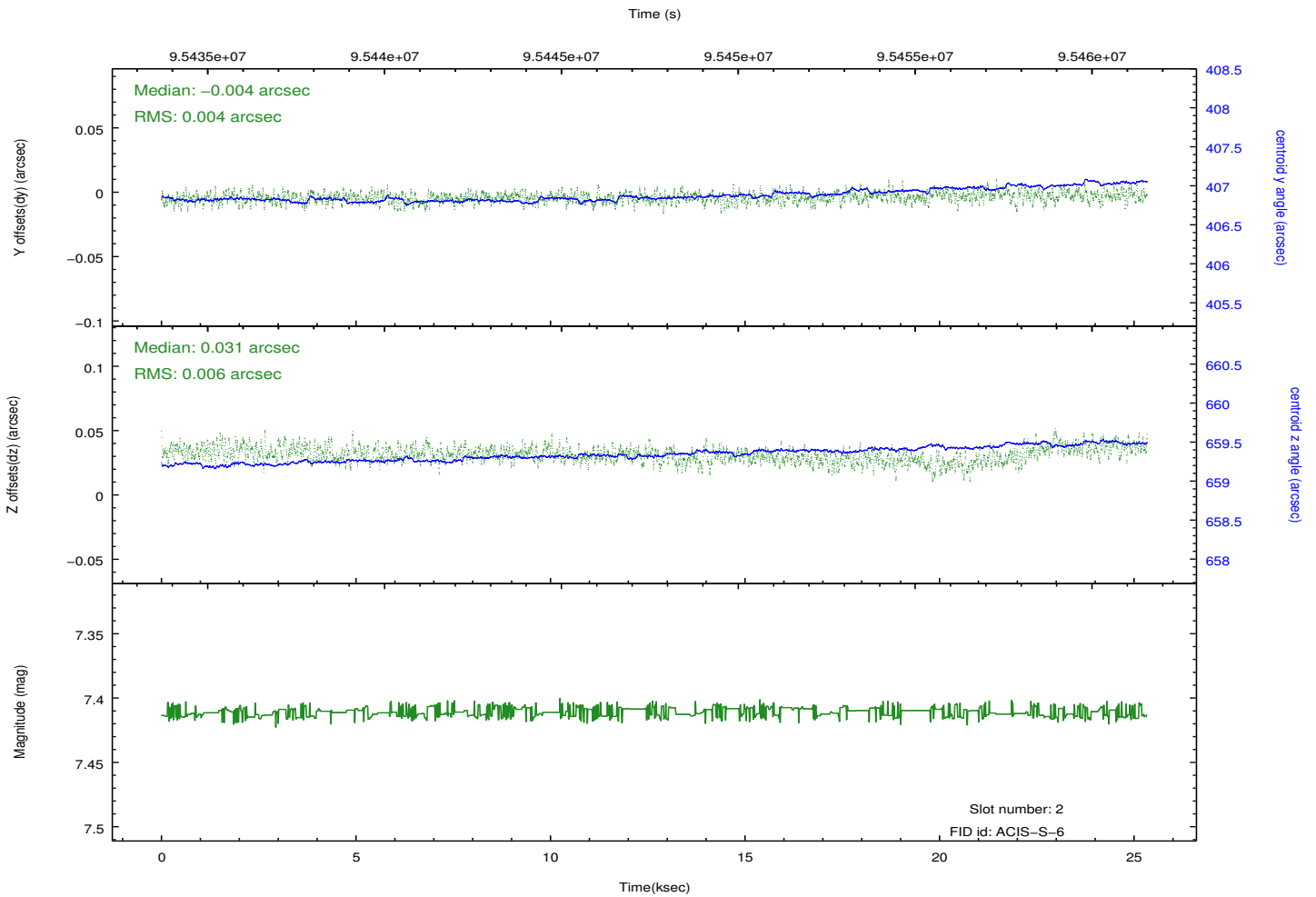
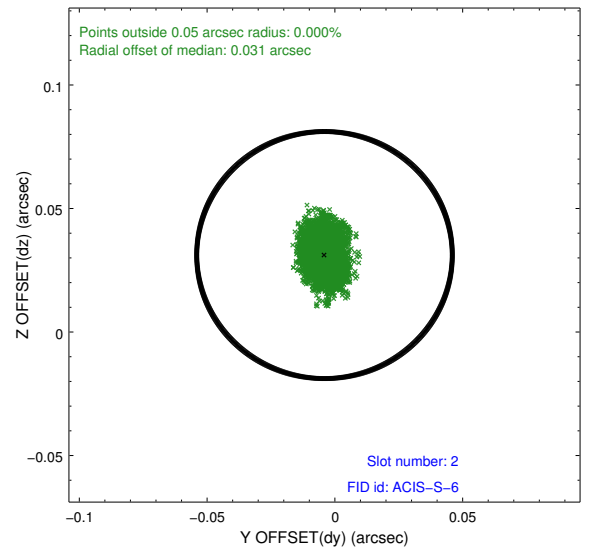
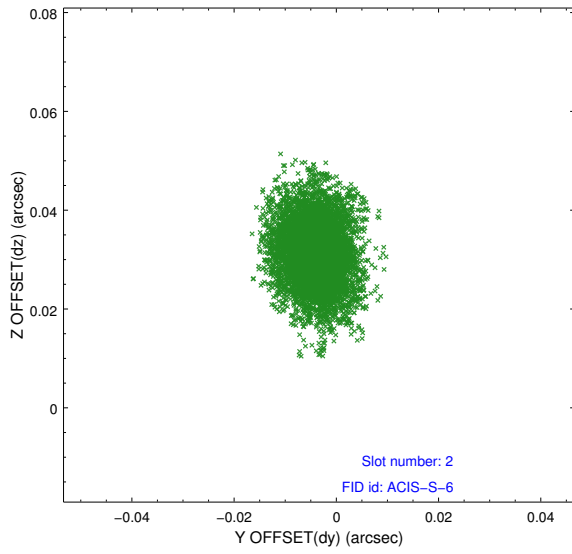
2.5.1 Slot 0



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)	2012.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.567

A.2 Comments

Charge time for this ObsId remains at original value of 23.567 ks, although with the current processing the charge time would have been 15.23278 ksec. Closely coordinated with HST. Roll angle 3 degrees away from preference window. Many dropped exposures due to telemetry saturation. Dither is not enabled for this observation.