

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1911 - L2 Version 3
Chandra X-Ray Center

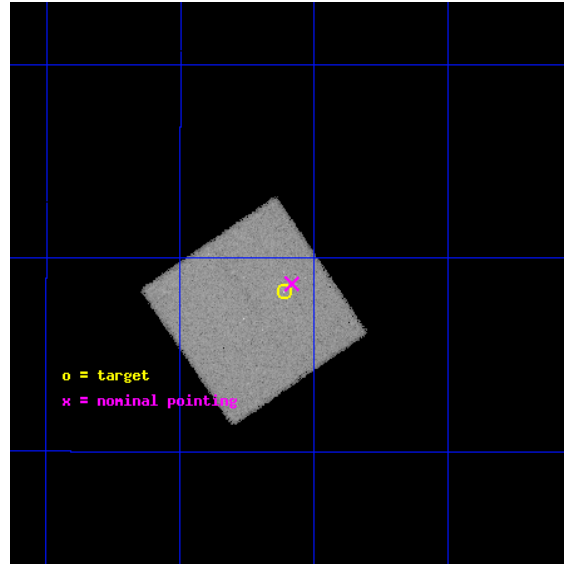
L2 Processing Date : Sep 20 2012

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1 Front

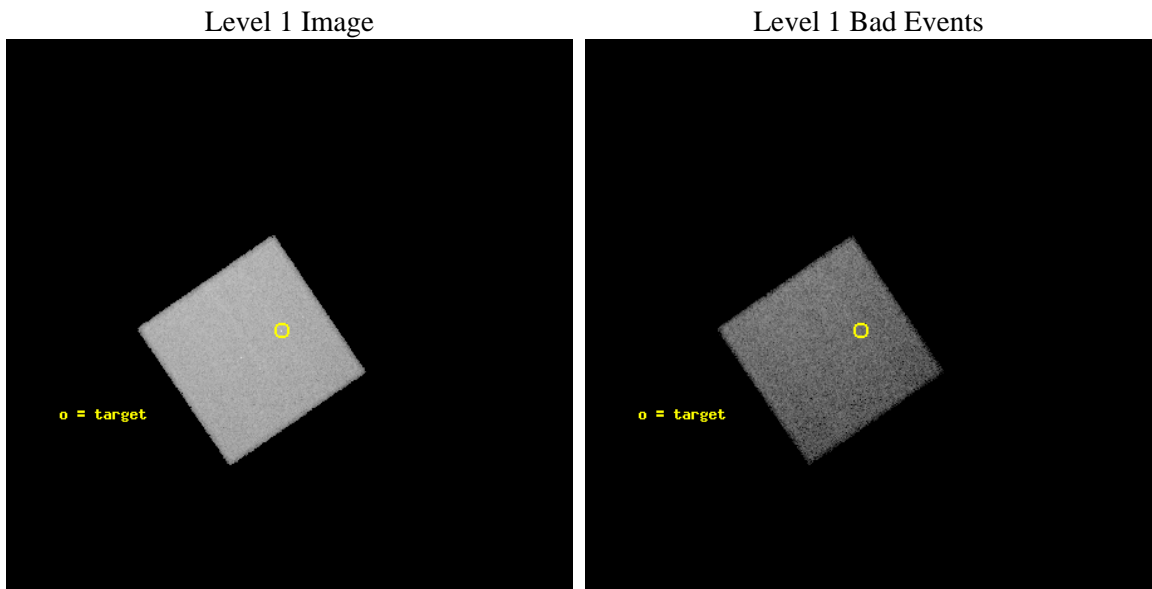
seq_num	400124	Sequence number
obs_id	1911	Observation id
title	THE X-RAY EMISSION ASSOCIATED WITH THE BLACK WIDOW PULSAR B1957+20	
observer	Dr BENJAMIN STAPPERS	Principal investigator
object	PSR B1957+20	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.903333	Observer's specified target RA [deg]
dec_targ	20.804194	Observer's specified target Dec [deg]
ra_nom	299.89589763612	Nominal RA [deg]
dec_nom	20.811049091824	Nominal Dec [deg]
roll_nom	145.66096675336	Nominal Roll [deg]
revision	3	Processing version of data
ontime	43170.0	Sum of GTIs [s]
livetime	42587.404309052	Livetime [s]
ontime7	43170.0	Sum of GTIs [s]
l2events	144038	Number of level 2 events



2 OBI

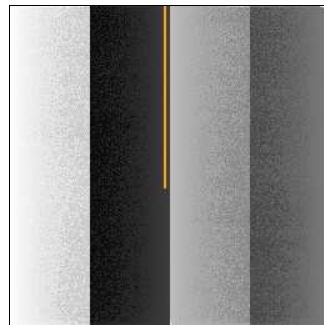
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	43000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	43170.0	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime7	43170.0	Sum of GTIs [s]
date	2012-09-20T05:13:28	Date and time of file creation	l1events	358488	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

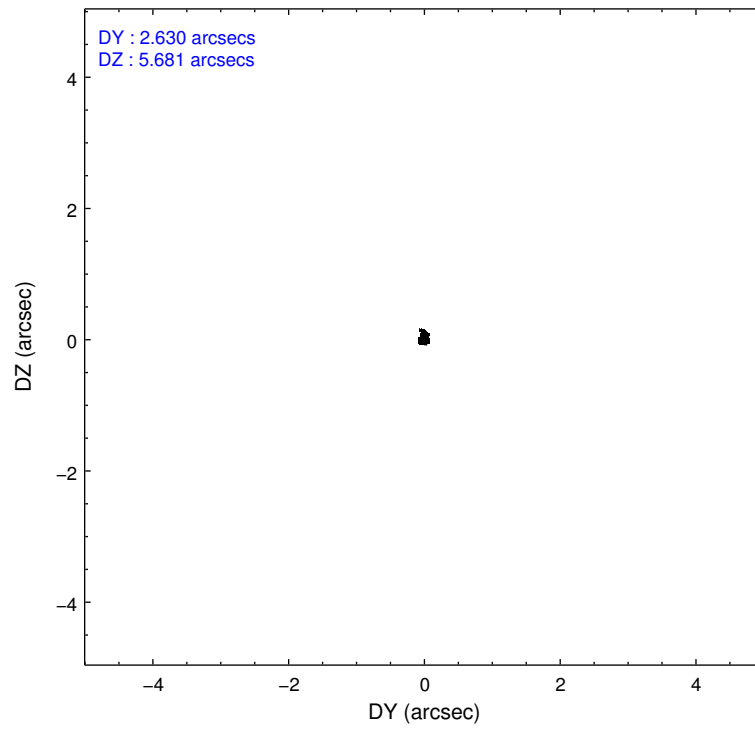
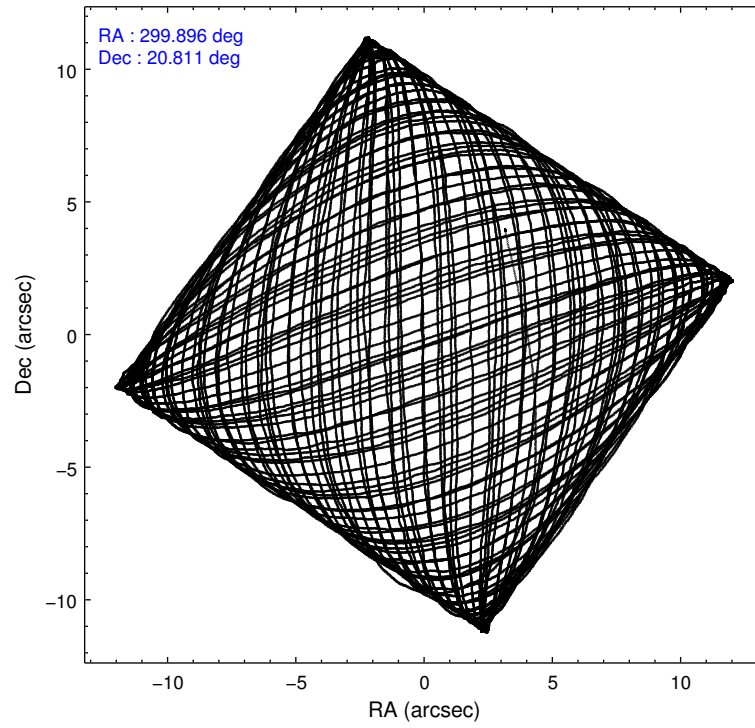
	ccd 7
level 1 events	358488
rejected events	210626
rejected %	58%

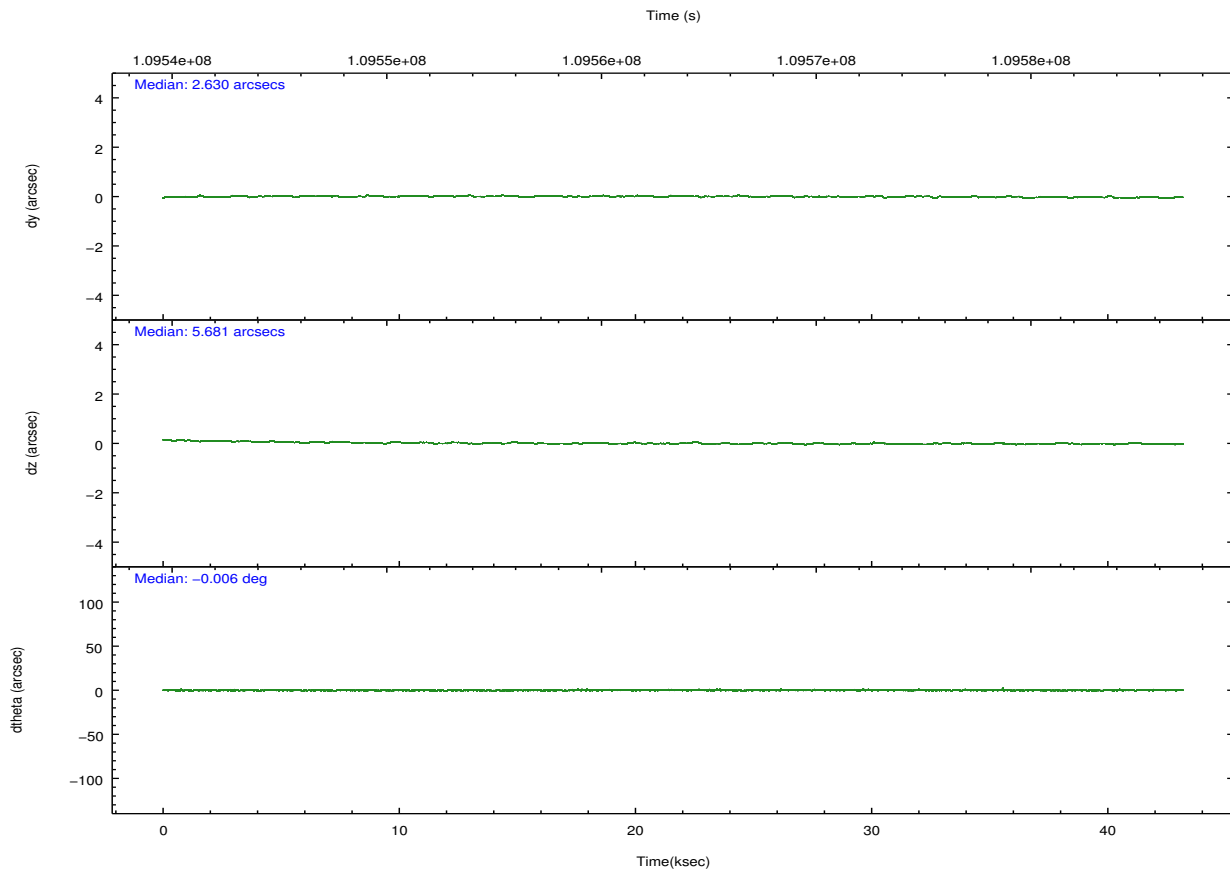
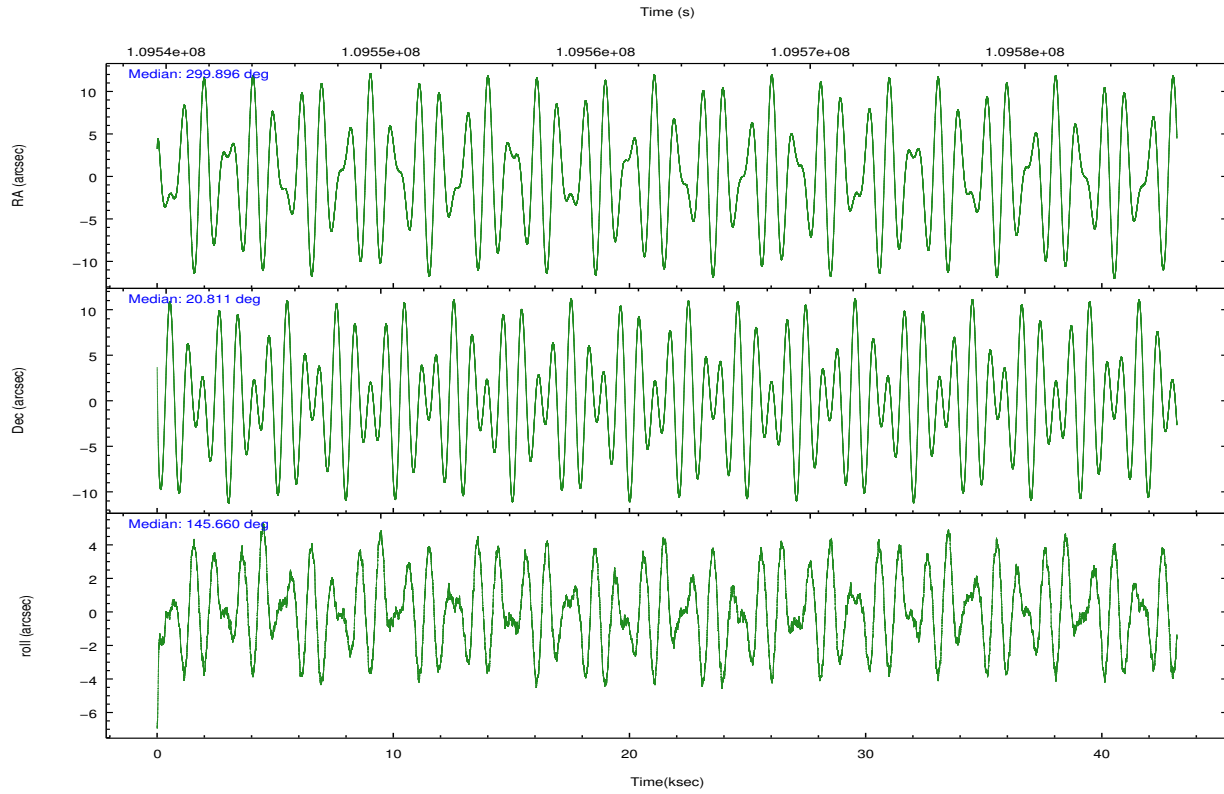
	ccd 7
grade 0 events	13701
	3%
grade 1 events	318
	0%
grade 2 events	29592
	8%
grade 3 events	13745
	3%
grade 4 events	13650
	3%
grade 5 events	33996
	9%
grade 6 events	79527
	22%
grade 7 events	173959
	48%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	299.925025	299.8958976361197	Subarray requested	NONE	NONE
[deg] Pointing Dec	20.809268	20.81104909182368	Alternating exposures requested	N	N
[deg] Pointing Roll	145.493989	145.6609667533613	[s] Primary exposure time	0.000000	3
[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			
Phase constraints	Y	Y			
[d] Phase period	0.381967	0.381967			
[d] Phase epoch (MJD)	51695.677000	51695.677000			
Phase start	0.000000	0.000000			
Phase end	1.000000	1.000000			
Phase start error	0.004000	0.004000			
Phase end error	0.004000	0.004000			
[s] Observation start time (MET)	109541923.184000	109540851.33826			
Observation start date	2001-06-21T20:17:39	2001-06-21T20:00:51			
[s] Observation end time (MET)	109584923.184000	109585690.99001			
Observation end date	2001-06-22T08:14:19	2001-06-22T08:28:10			
Read mode	TIMED	TIMED			

2.3 Aspect



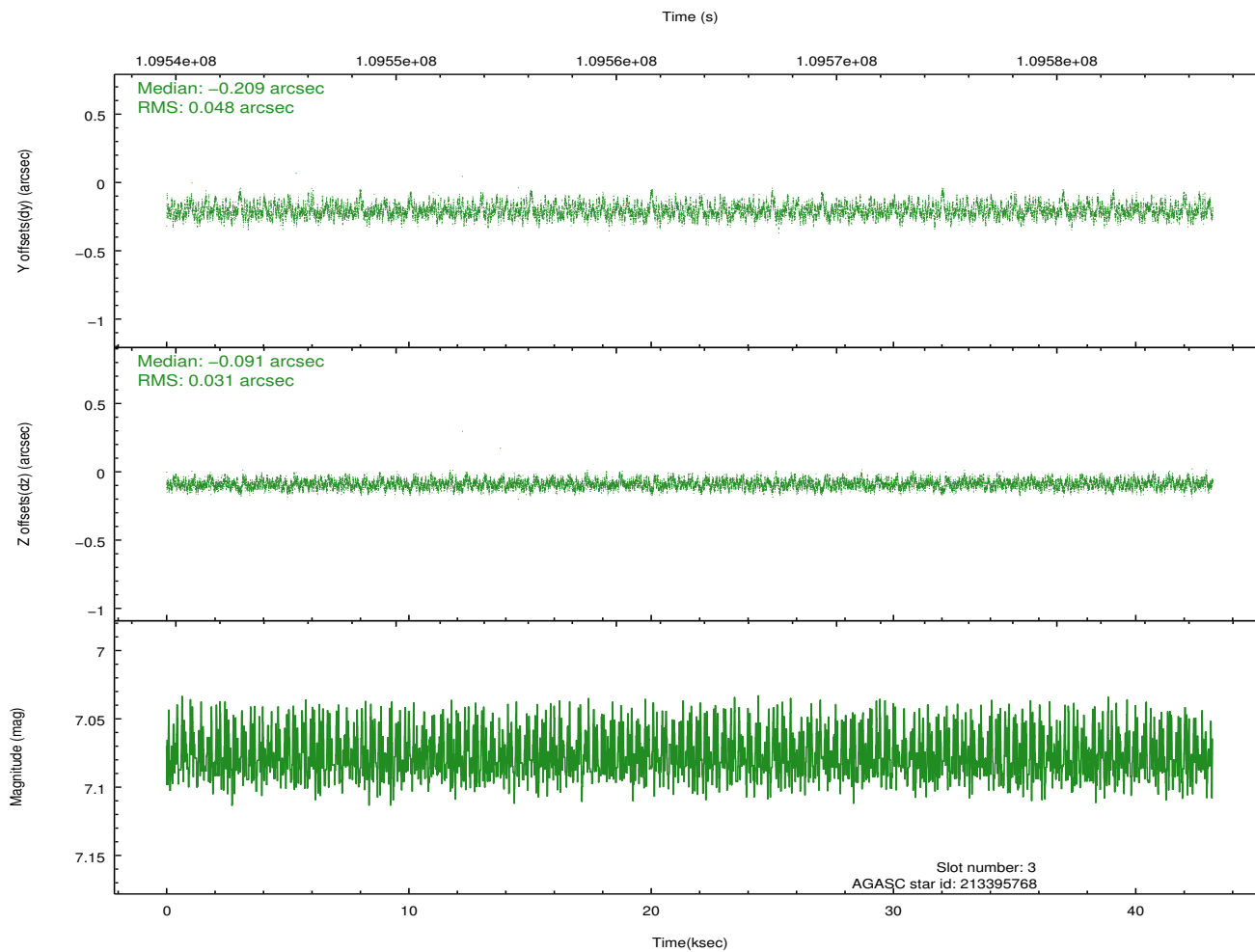
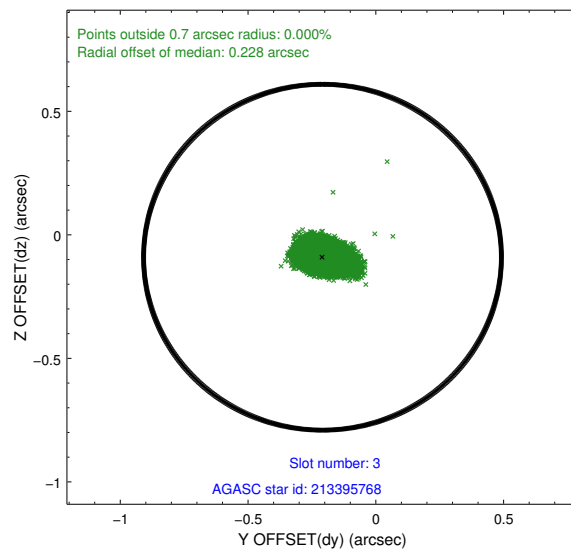
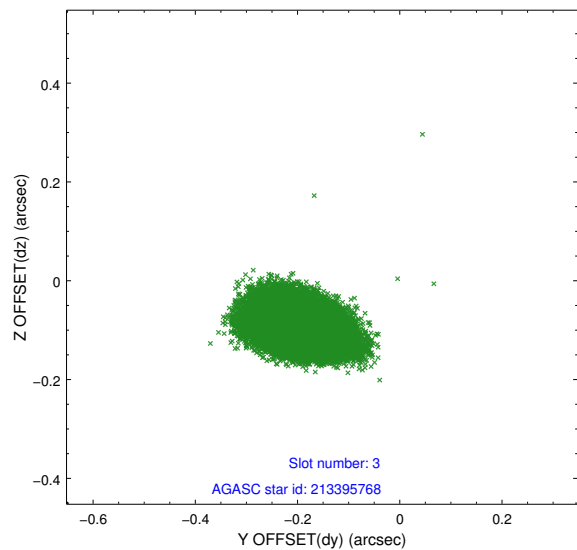


Slot Statistics

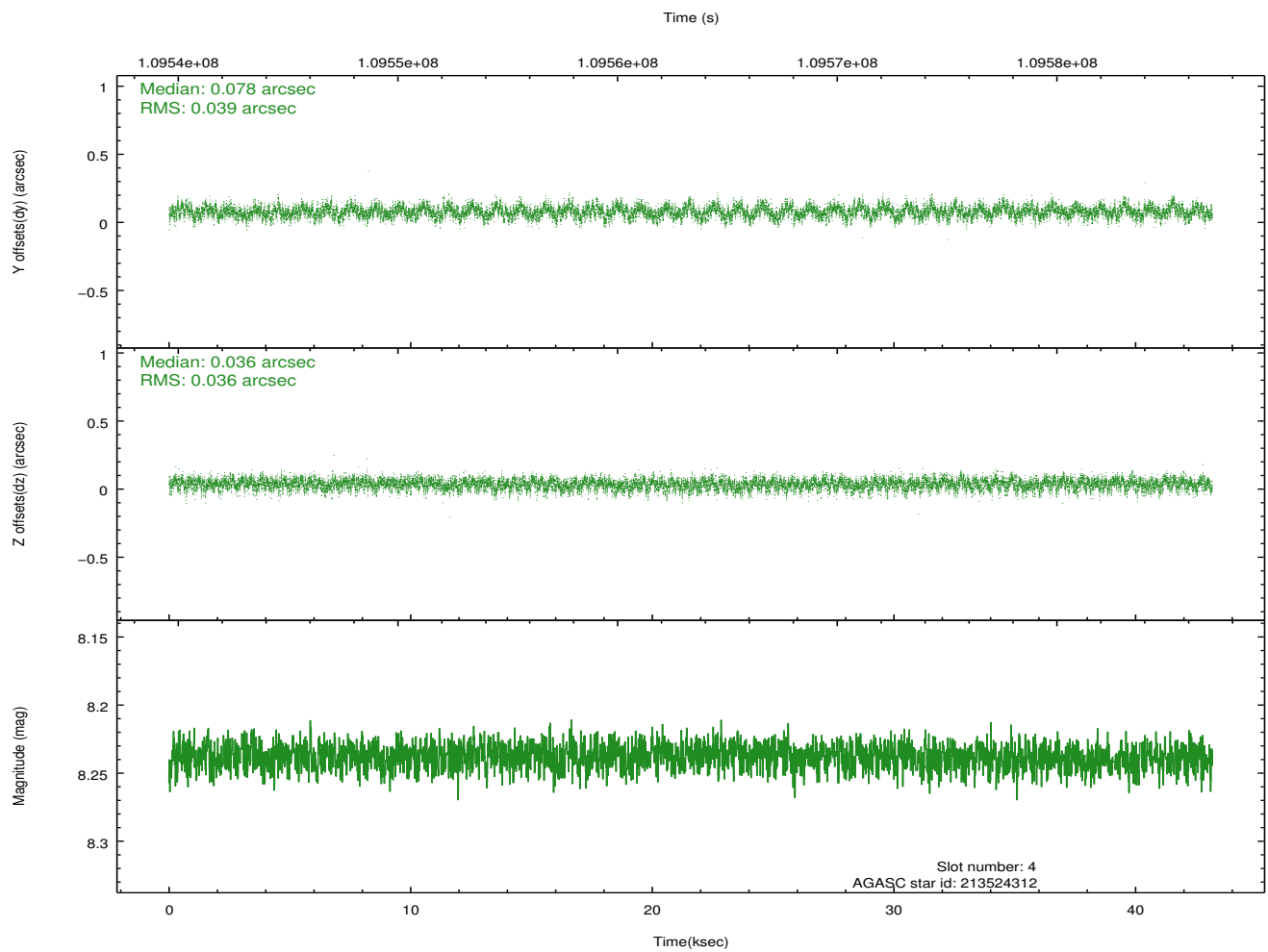
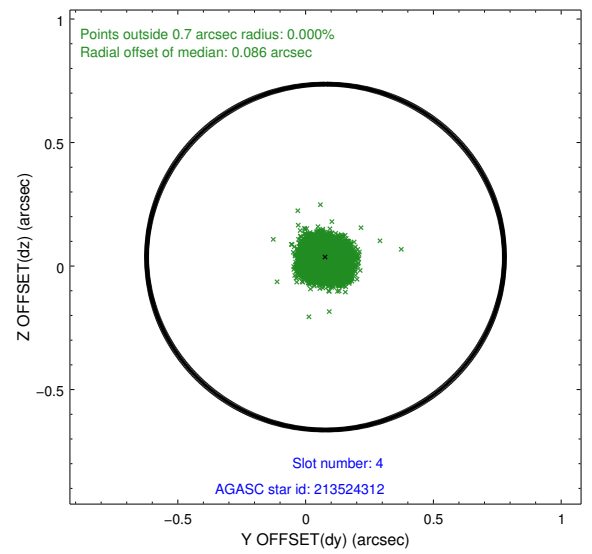
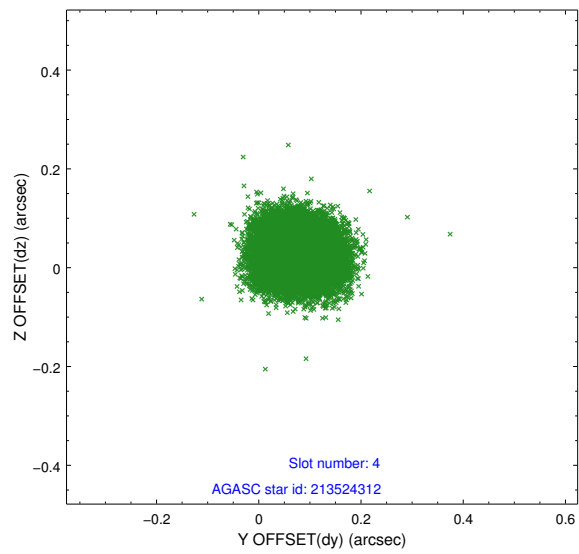
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	10530	-0.039	-0.003	0.007	0.011	0.000000	0.000000	-755.25	-1726.84
1	FID	ACIS-S-4	7.20	10529	-0.018	0.020	0.006	0.010	0.000000	0.000000	2157.99	181.74
2	FID	ACIS-S-5	7.24	10531	0.026	-0.008	0.006	0.011	0.000000	0.000000	-1808.07	175.28
3	GUIDE	213395768	7.08	21061	-0.209	-0.091	0.060	0.101	299.251745	20.998311	2252.42	717.42
4	GUIDE	213524312	8.24	21058	0.078	0.036	0.057	0.092	300.425493	20.643719	-1725.63	-465.85
5	GUIDE	213394576	8.84	21052	-0.070	0.034	0.060	0.099	299.988068	21.244541	712.96	-1410.86
6	GUIDE	213519648	8.86	21057	0.100	-0.002	0.074	0.120	300.574432	20.926477	-1558.12	-1588.24
7	GUIDE	212995912	8.89	21054	0.097	0.024	0.076	0.120	300.416450	20.615203	-1759.16	-364.21

2.4 Star Slots

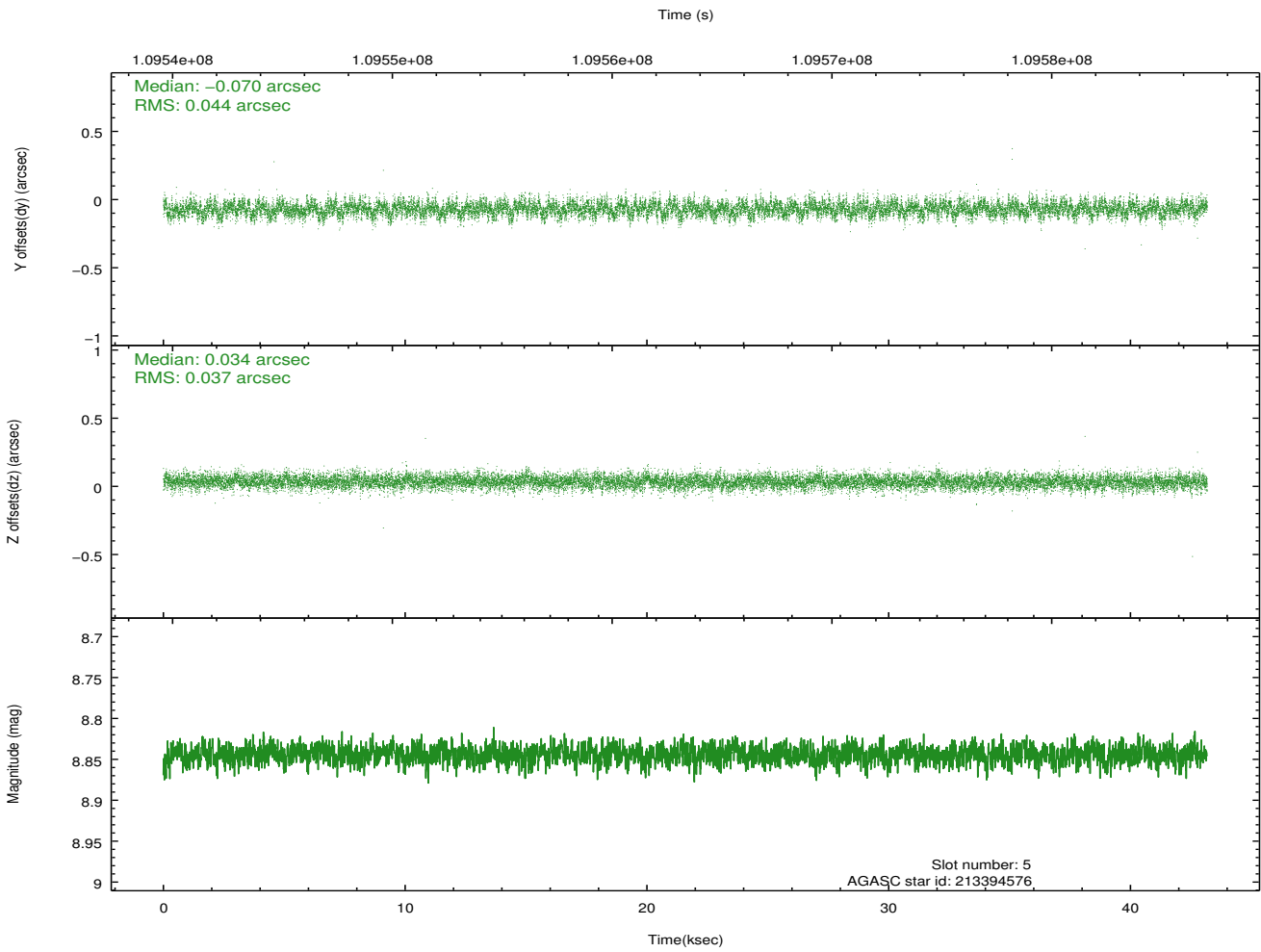
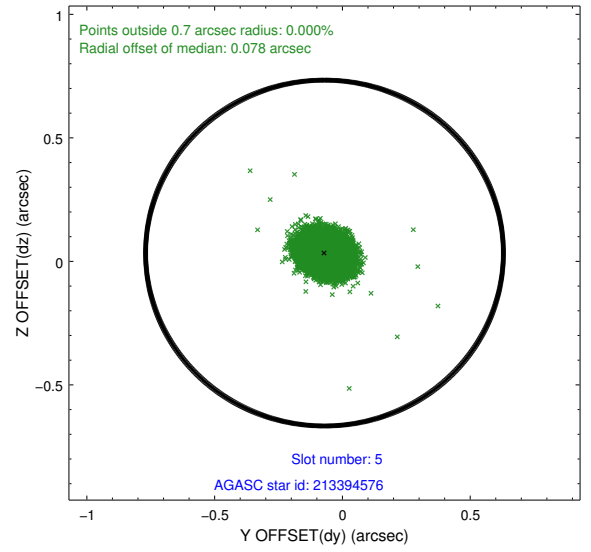
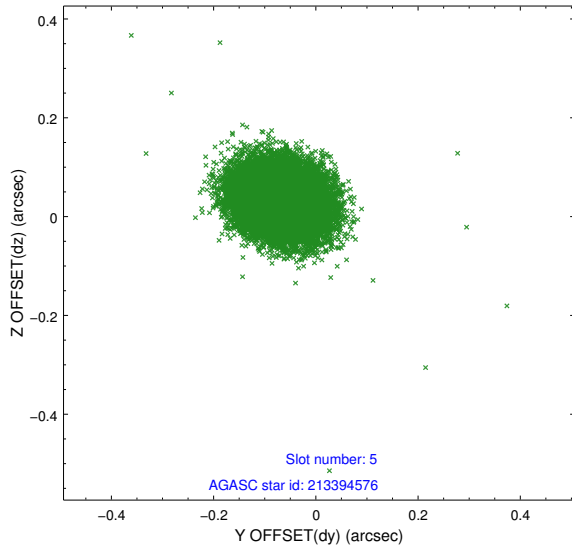
2.4.1 Slot 3



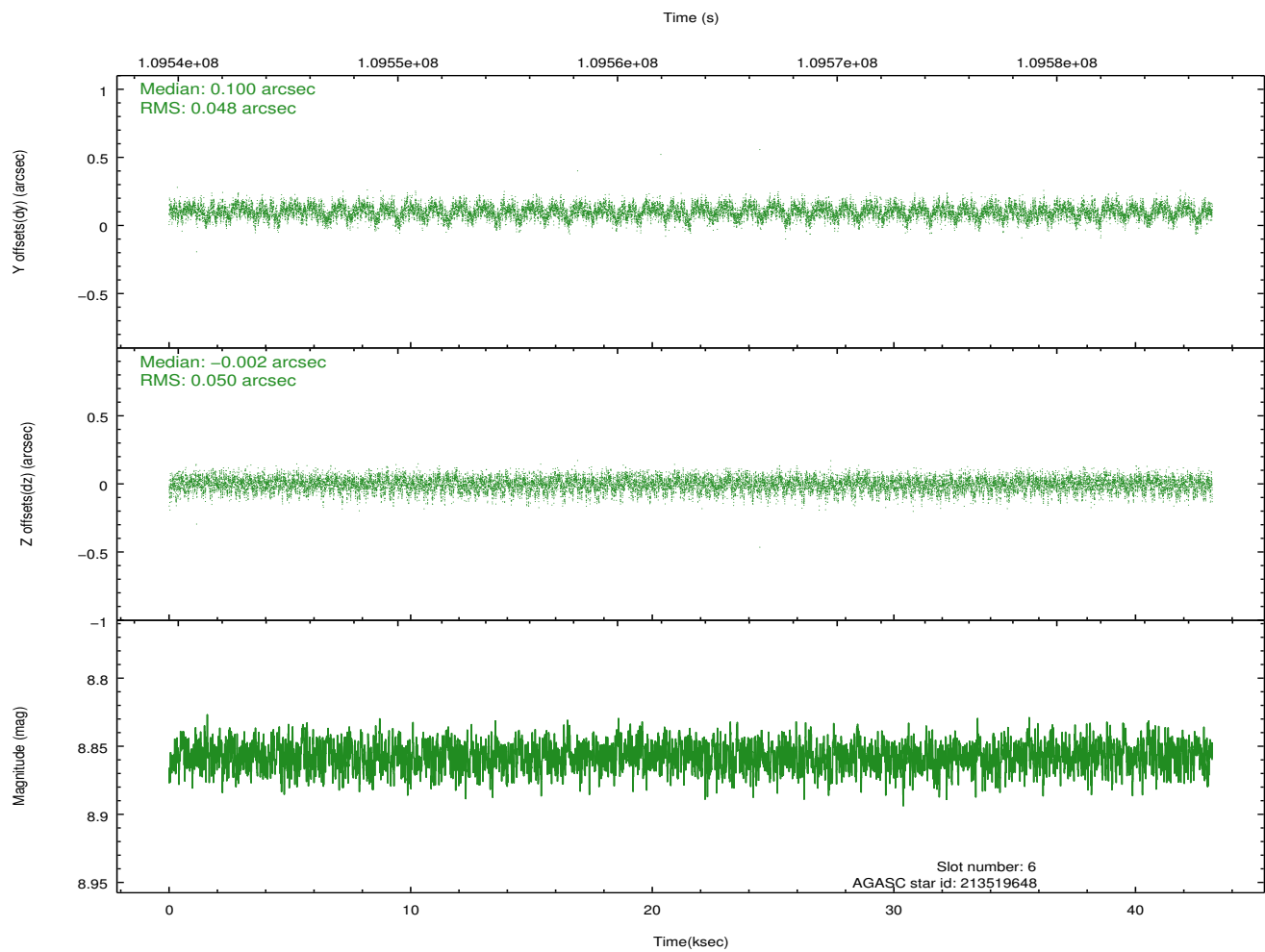
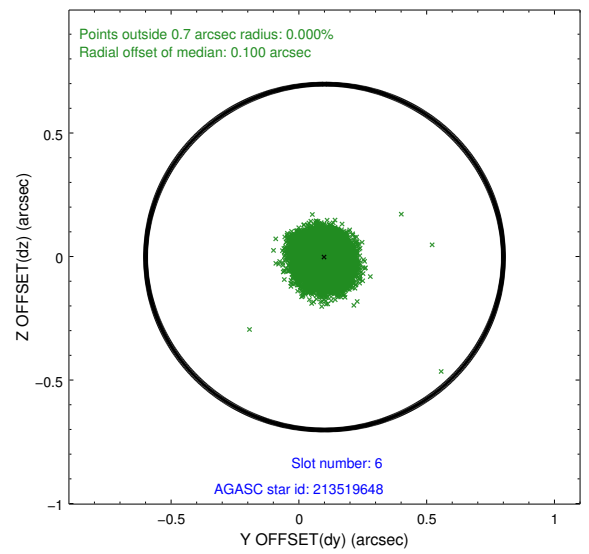
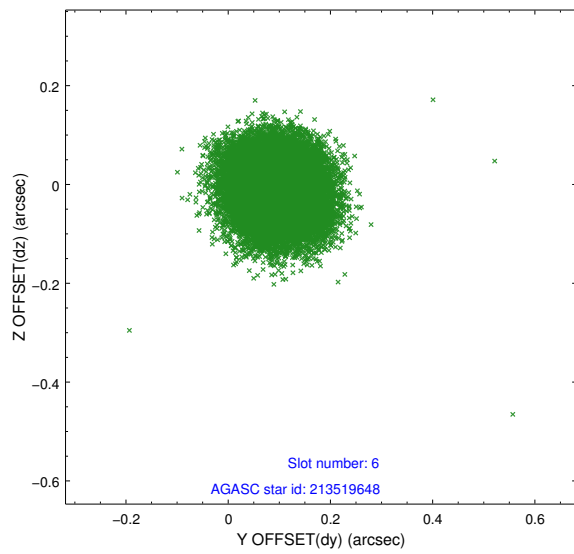
2.4.2 Slot 4



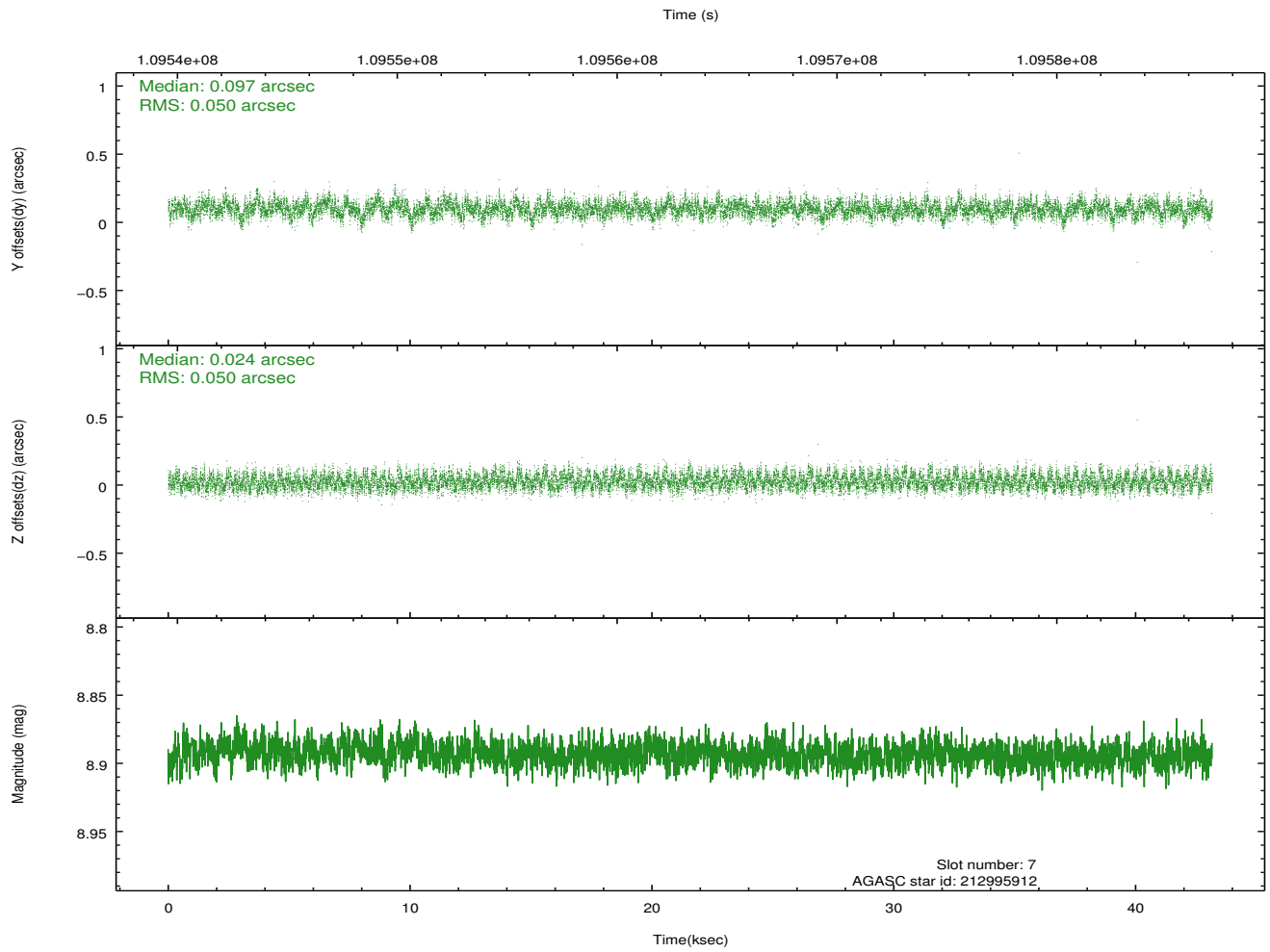
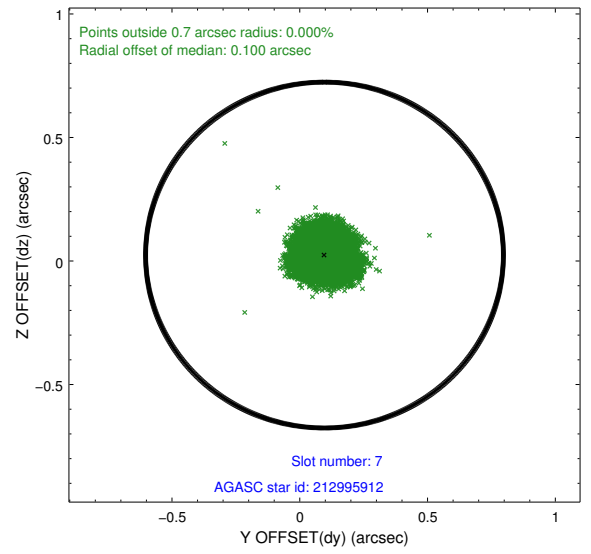
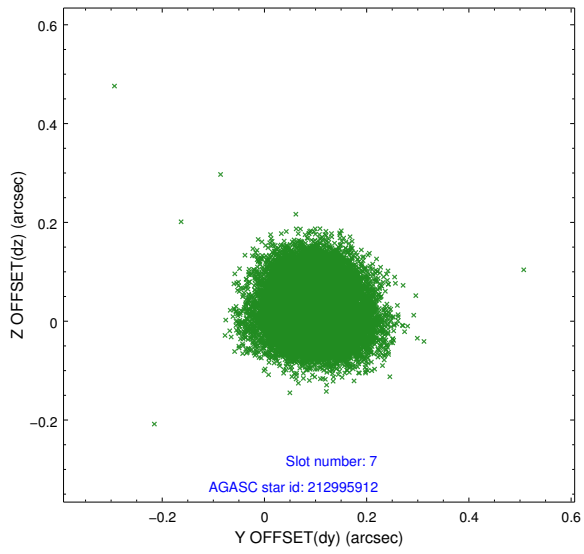
2.4.3 Slot 5



2.4.4 Slot 6

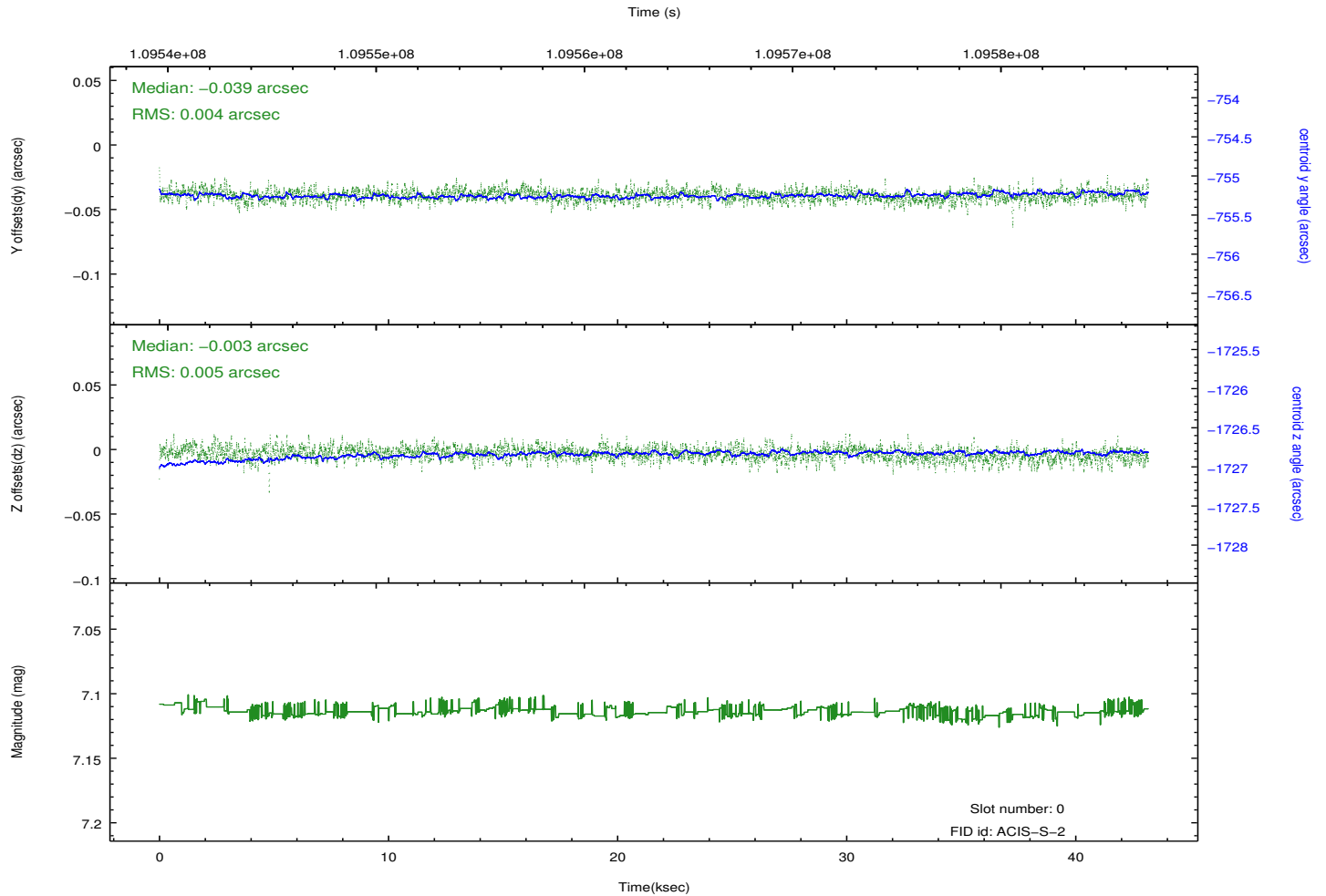
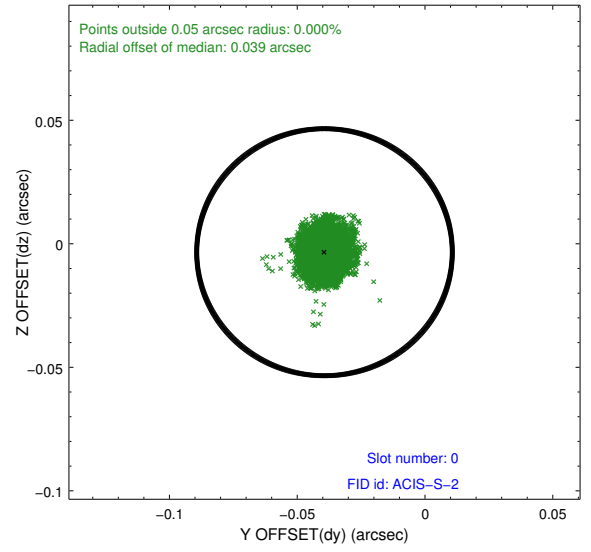
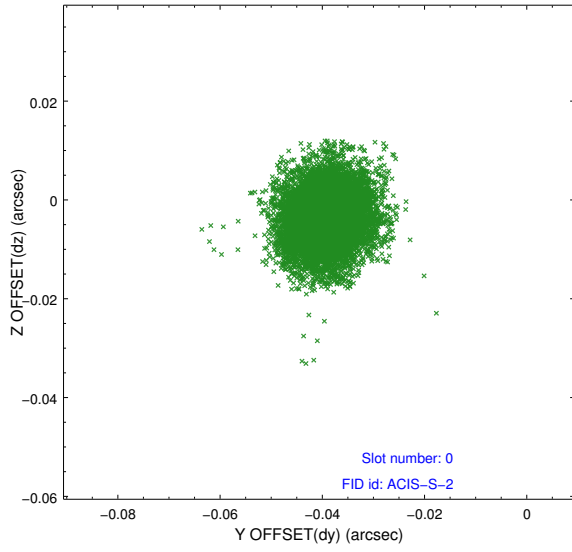


2.4.5 Slot 7

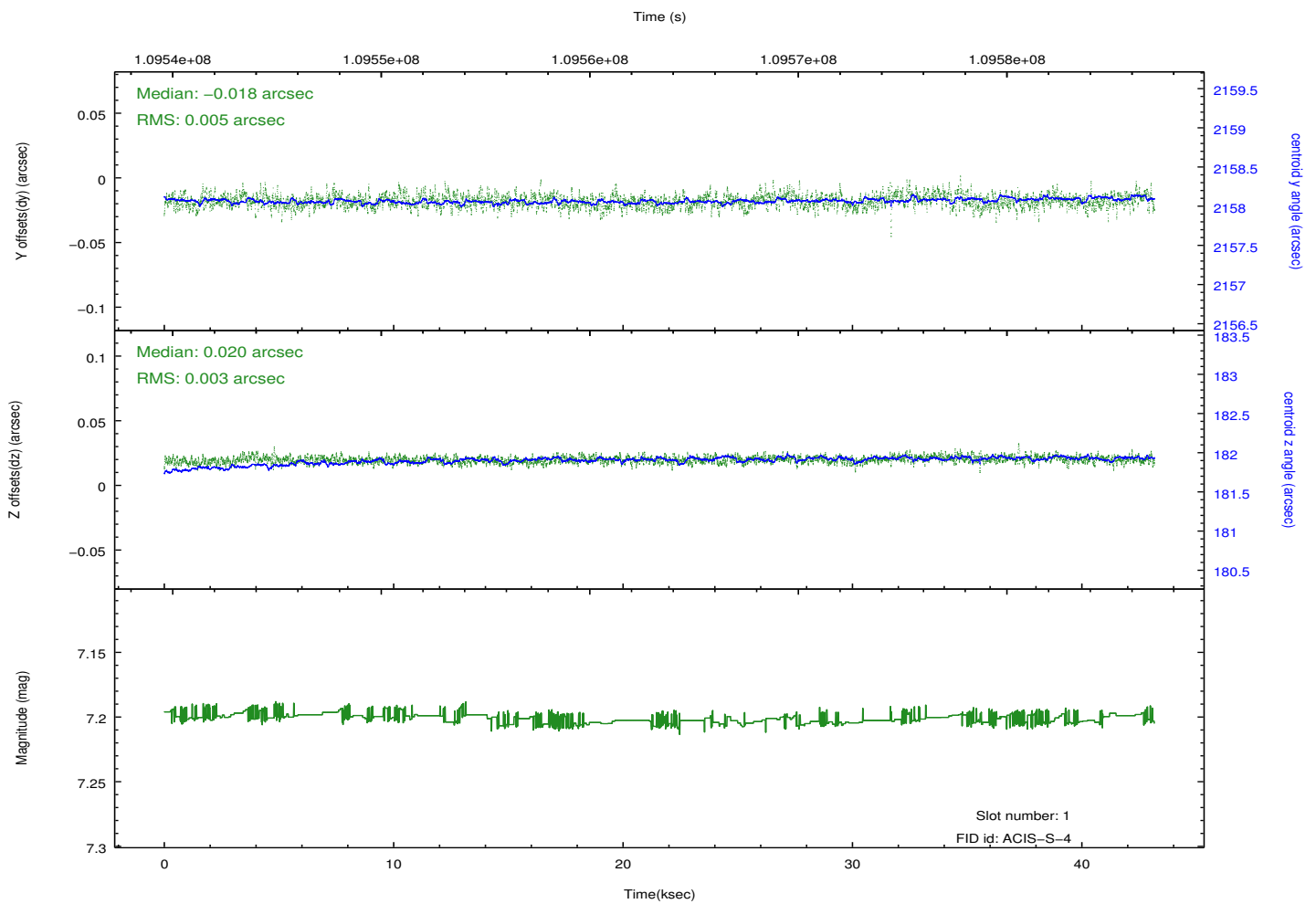
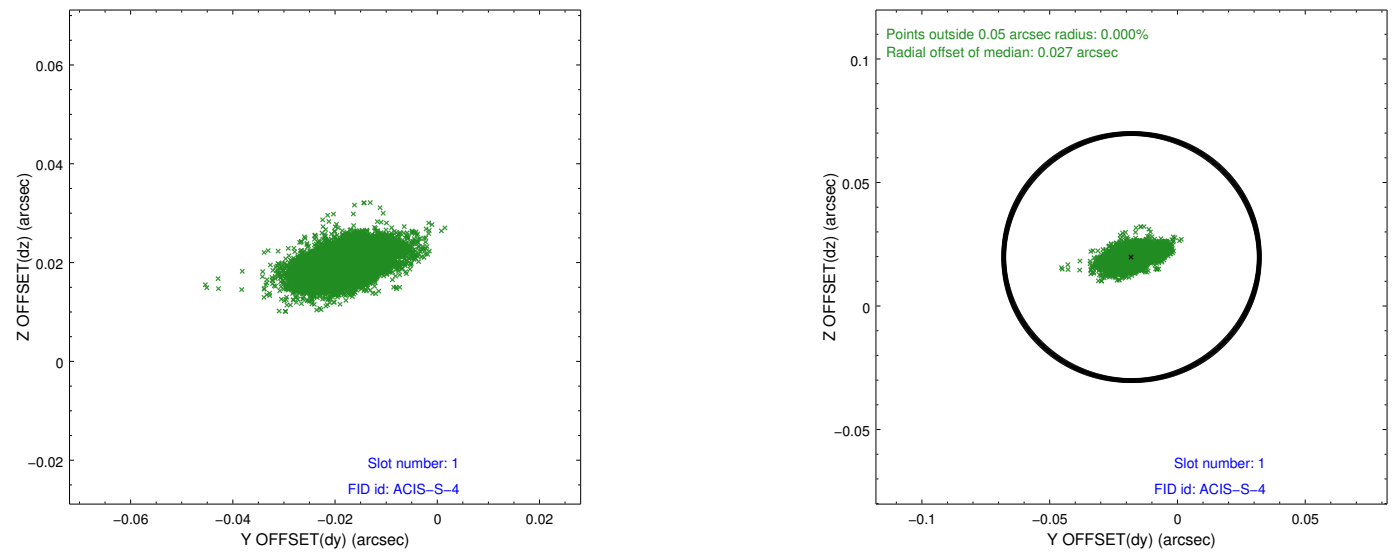


2.5 FID Slots

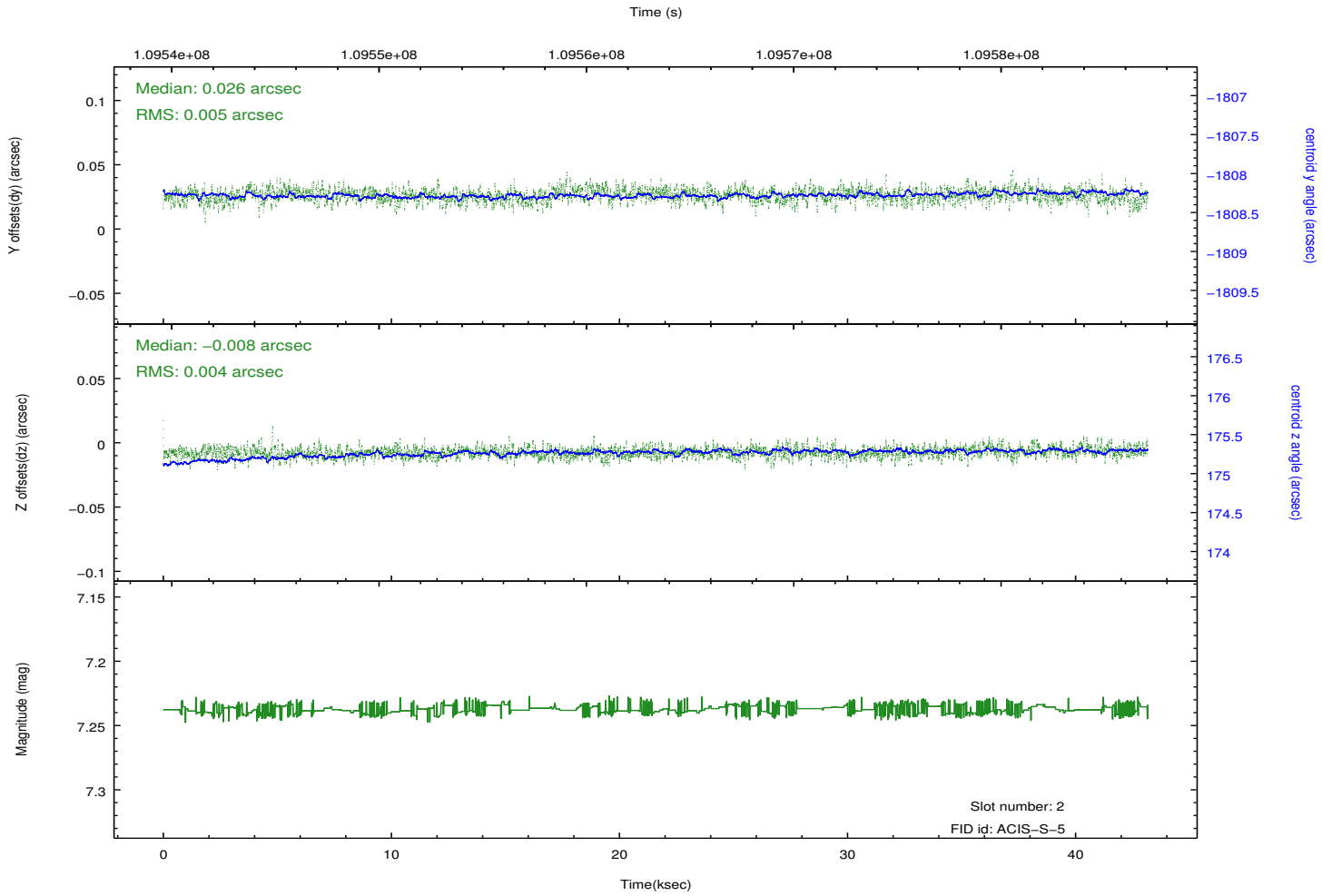
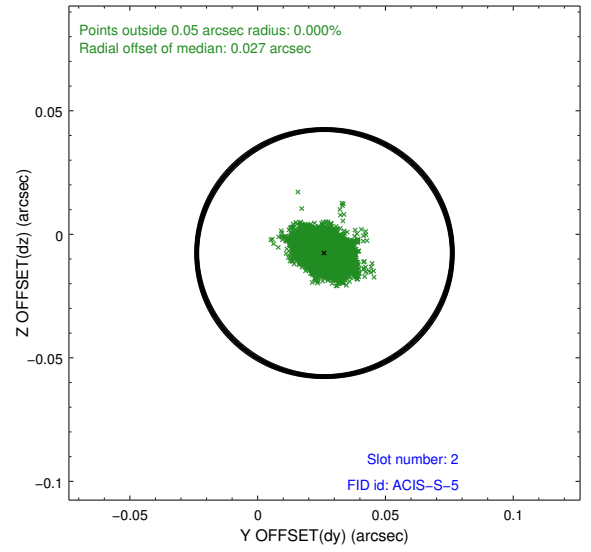
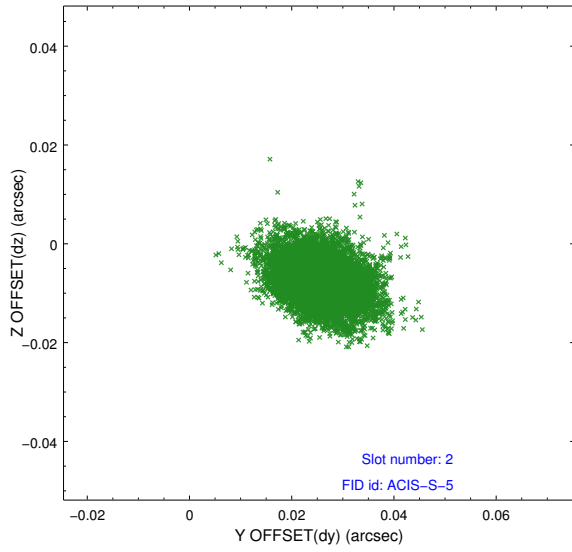
2.5.1 Slot 0



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)	2012.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.2

A.2 Comments

This observation is part of a series of observations to cover a little more than one full period of the binary orbit, with at least 2 eclipses included.