

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 14401 - L2 Version 2
Chandra X-Ray Center

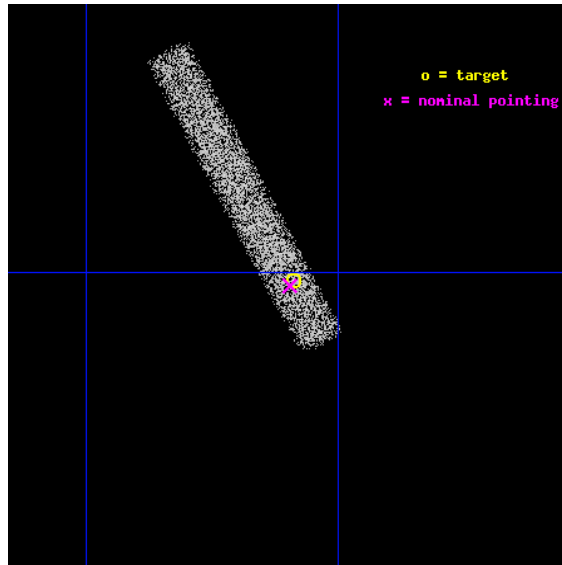
L2 Processing Date : Mar 9 2012

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1 Front

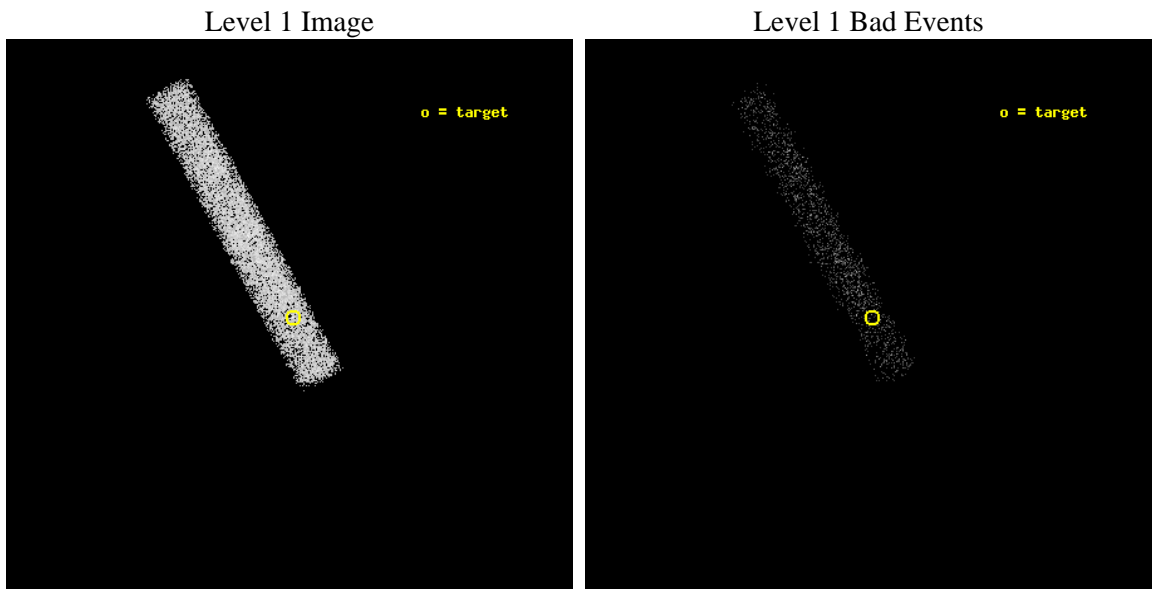
seq_num	200829	Sequence number
obs_id	14401	Observation id
title	X-ray irradiation and evaporation of a super-Earth exoplanet	Propo
observer	Dr Peter Wheatley	Principal investigator
object	55 Cnc	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	133.1475	Observer's specified target RA [deg]
dec_targ	28.330028	Observer's specified target Dec [deg]
ra_nom	133.14920792301	Nominal RA [deg]
dec_nom	28.3273763134	Nominal Dec [deg]
roll_nom	241.59110435255	Nominal Roll [deg]
revision	2	Processing version of data
ontime	11786.399297476	Sum of GTIs [s]
livetime	10689.642025645	Livetime [s]
ontime7	11786.399297476	Sum of GTIs [s]
l2events	8960	Number of level 2 events



2 OBI

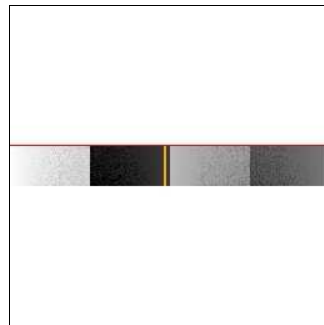
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	11786.399297476	Sum of GTIs [s]
caldbver	4.4.8	 	ontime7	11786.399297476	Sum of GTIs [s]
date	2012-03-09T18:32:56	Date and time of file creation	l1events	16704	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

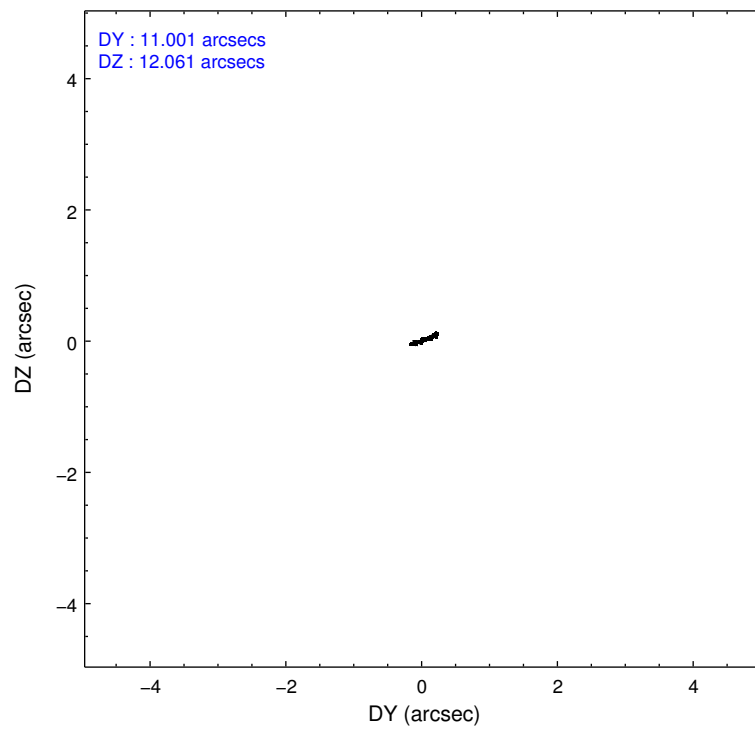
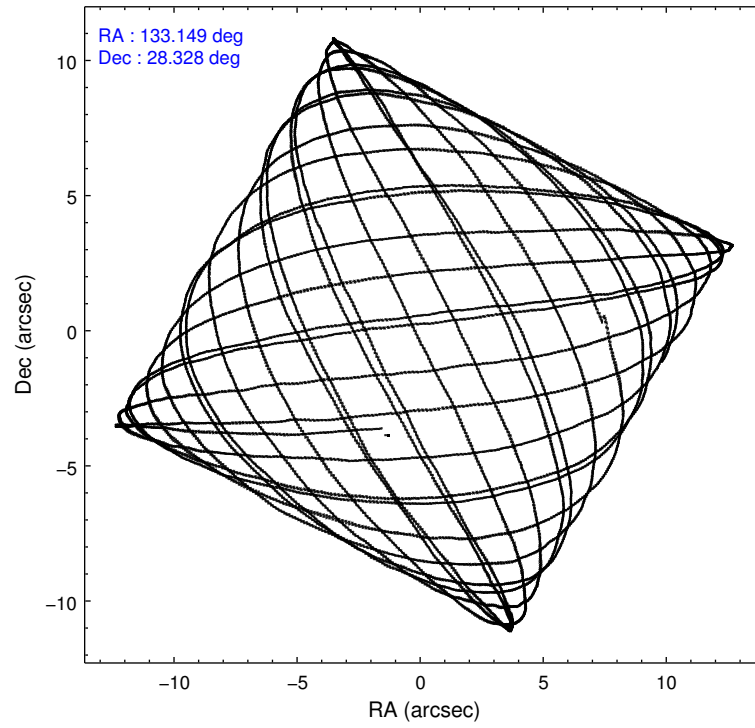
	ccd 7
level 1 events	16704
rejected events	7187
rejected %	43%

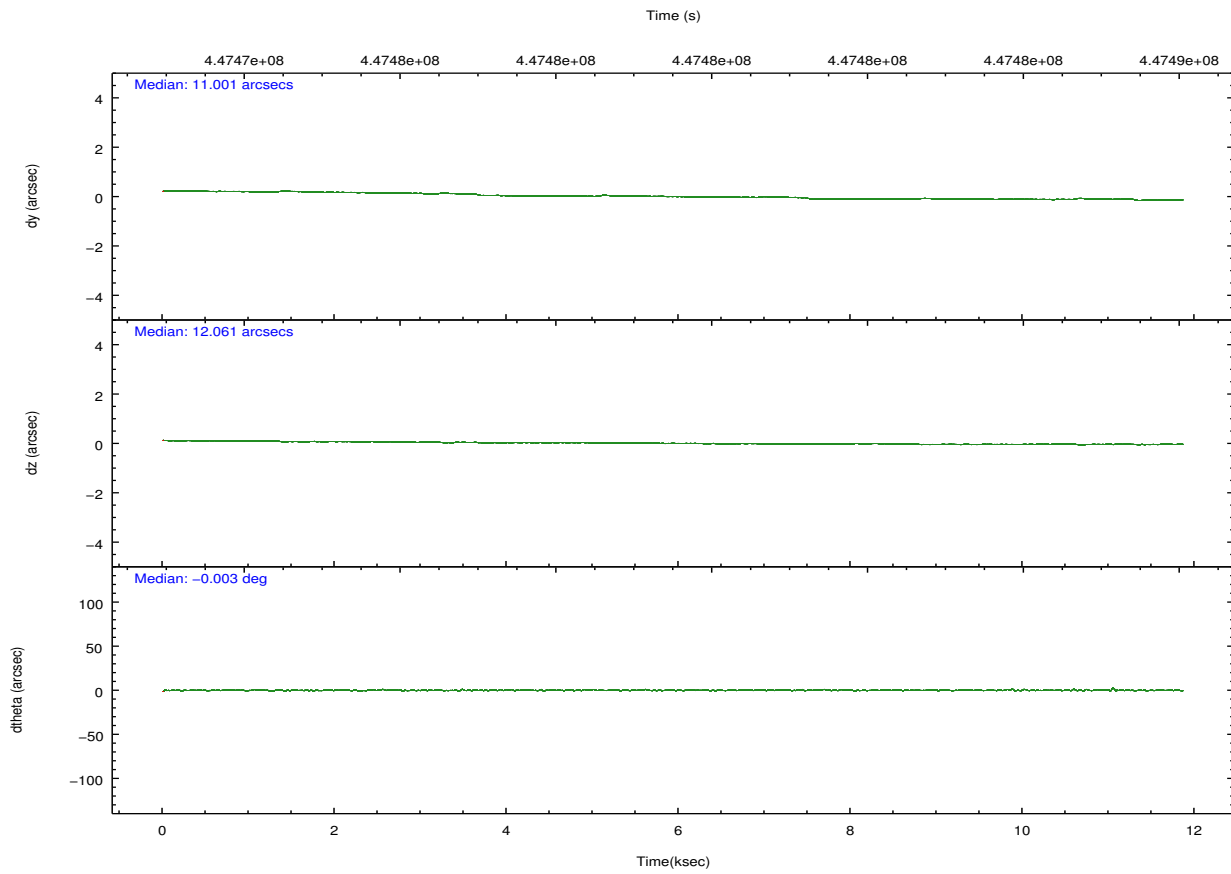
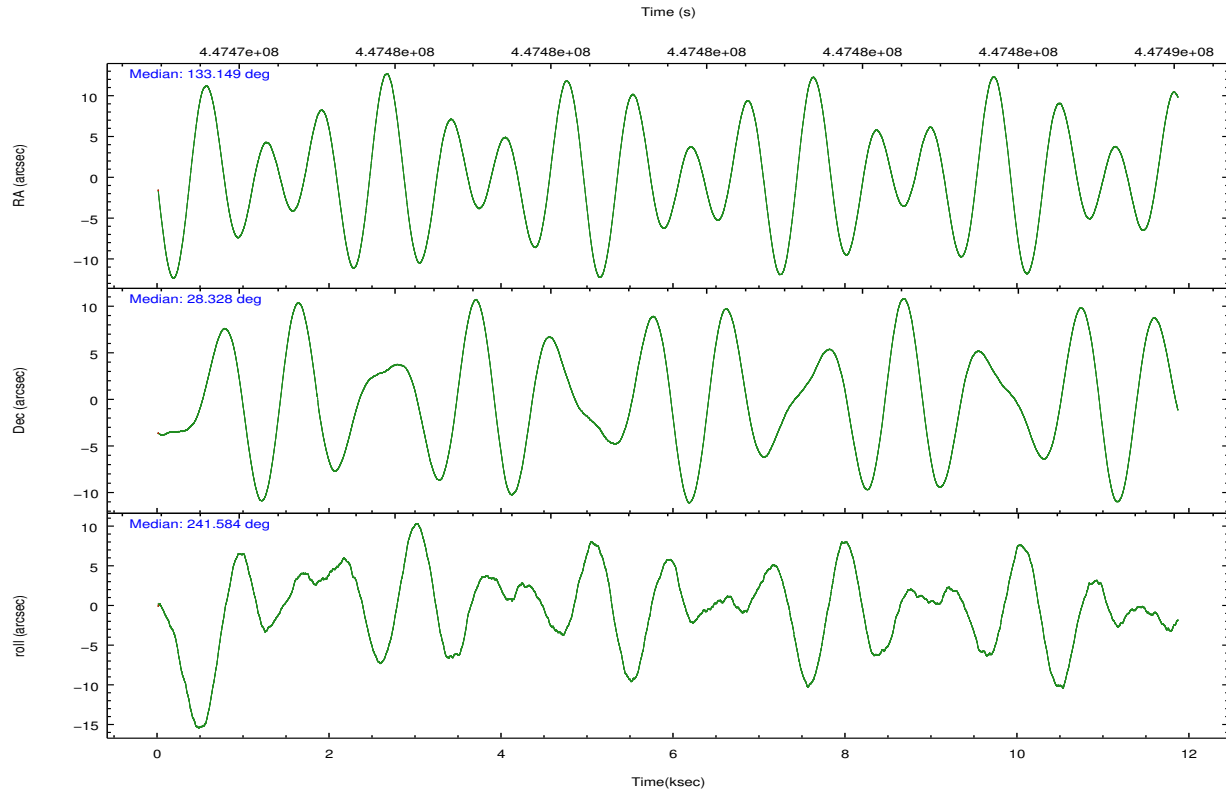
	ccd 7
grade 0 events	1169
	6%
grade 1 events	24
	0%
grade 2 events	2067
	12%
grade 3 events	1400
	8%
grade 4 events	1272
	7%
grade 5 events	1454
	8%
grade 6 events	3672
	21%
grade 7 events	5646
	33%

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	OVERRIDE	OVERRIDE
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	133.147888	133.1492079230054	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	28.354705	28.3273763133997	Subarray start row	449	449
[deg] Pointing Roll	241.435094	241.5911043525472	Subarray row count	128	128
[s] Window start time (MET)	447385266.184000	447385266.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	447558066.184000	447558066.184000	[s] Primary exposure time	0.4	0.4
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1400660498719	-190.1400660498719			
[mm] SIM translation stage offset	0.007542945904702947	0.007542945904702947			
[s] Observation start time (MET)	447473580.184000	447473580.184			
Observation start date	2012-03-07T02:11:54	2012-03-07T02:13:00			
[s] Observation end time (MET)	447485442.600000	447485442.6			
Observation end date	2012-03-07T05:30:42	2012-03-07T05:30:42			
Read mode	TIMED	TIMED			

2.3 Aspect





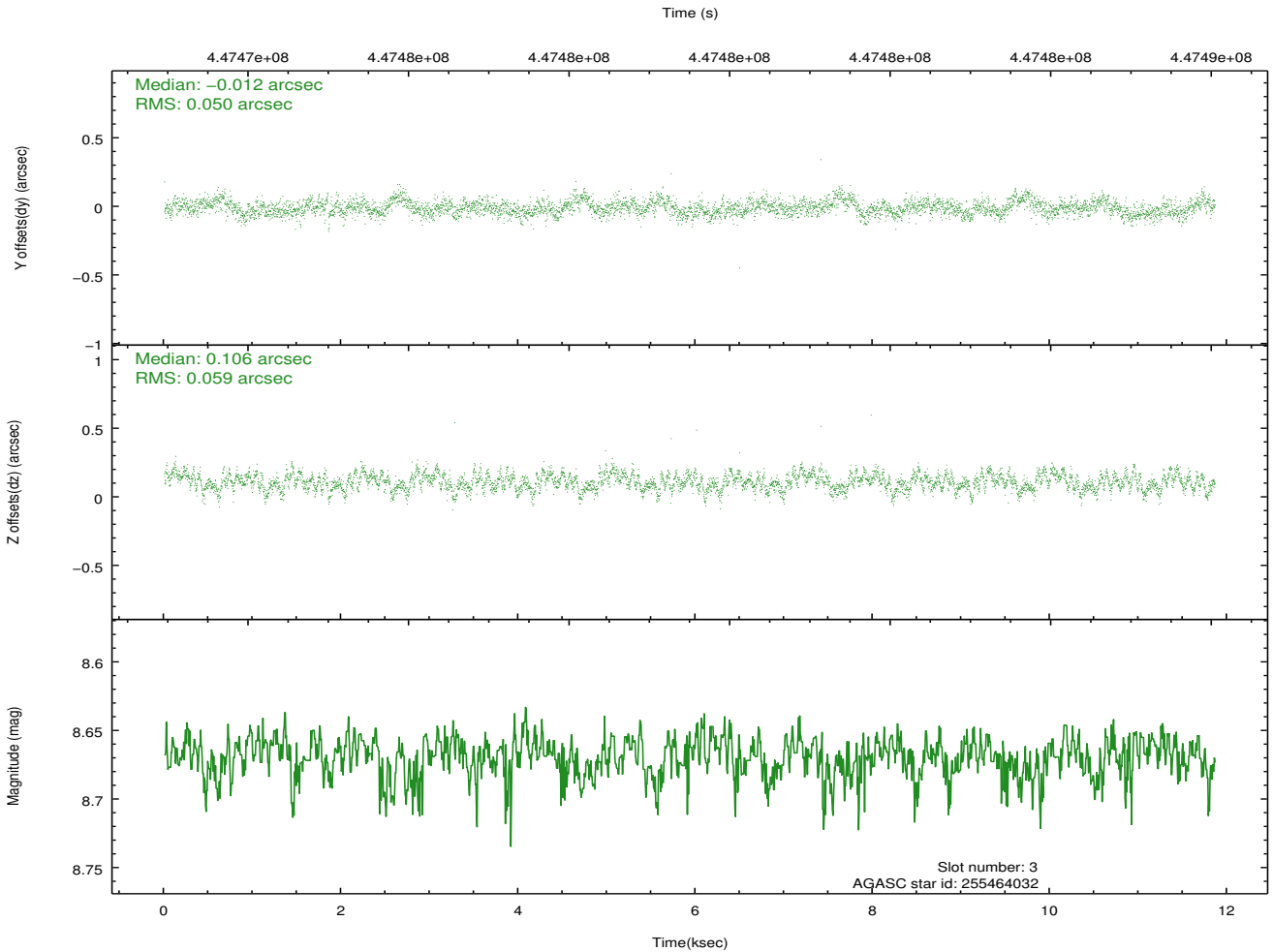
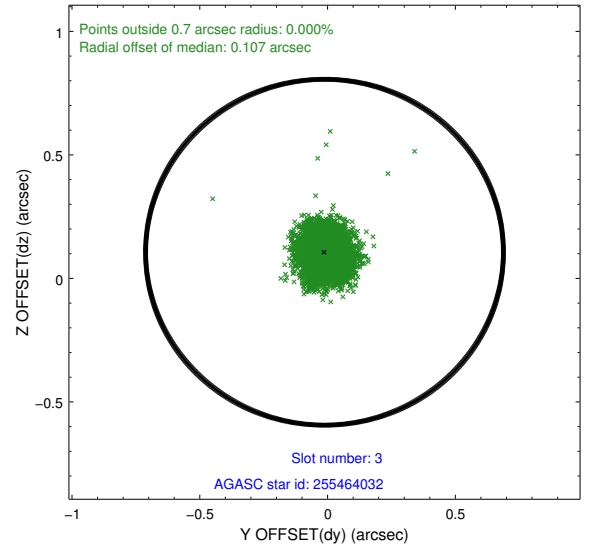
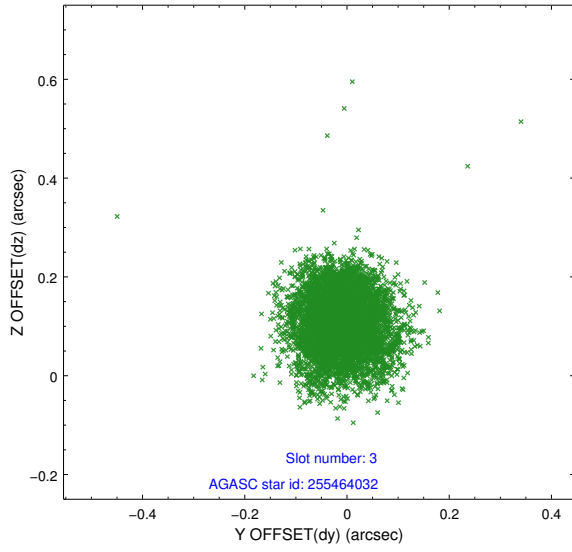
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.03	2893	-0.061	-0.045	0.007	0.011	0.000000	0.000000	-763.96	-1733.41
1	FID	ACIS-S-4	7.12	2893	0.203	0.042	0.006	0.012	0.000000	0.000000	2149.41	174.68
2	FID	ACIS-S-5	7.16	2893	-0.172	0.012	0.007	0.012	0.000000	0.000000	-1816.35	168.86
3	GUIDE	255464032	8.67	5784	-0.012	0.106	0.081	0.130	133.279881	28.699178	-1288.37	-226.76
4	GUIDE	255469712	7.22	5746	-0.097	0.008	0.062	0.097	133.072289	28.856520	-1472.68	-1072.96
5	GUIDE	255472000	8.73	5779	0.216	-0.058	0.075	0.119	132.648499	28.117541	1505.53	-985.71
6	GUIDE	255461208	8.59	5780	-0.003	0.063	0.086	0.132	133.042272	29.134108	-2304.95	-1633.56
7	GUIDE	255470272	9.23	5776	-0.106	-0.119	0.128	0.210	133.844161	28.114281	-302.56	2352.20

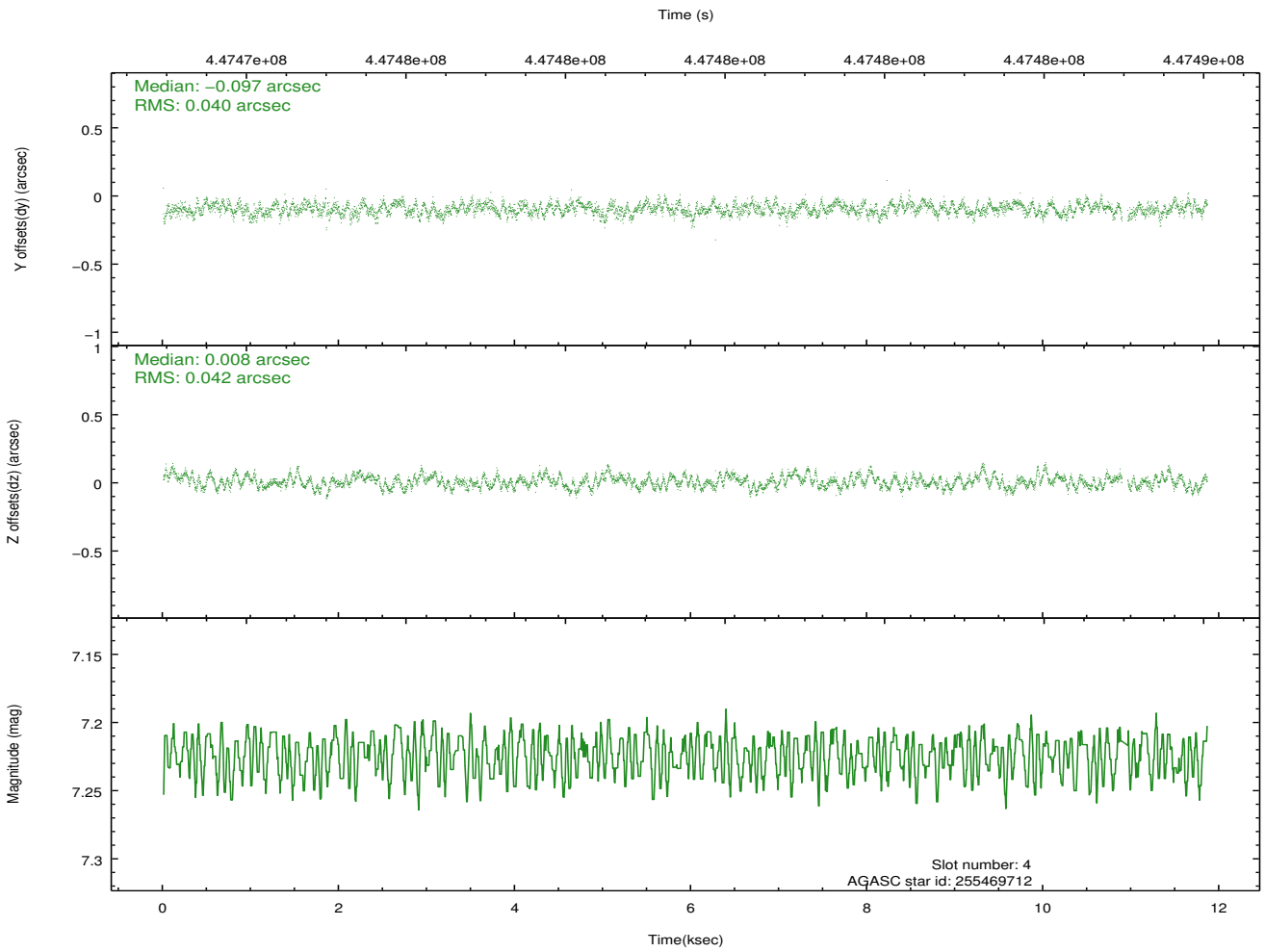
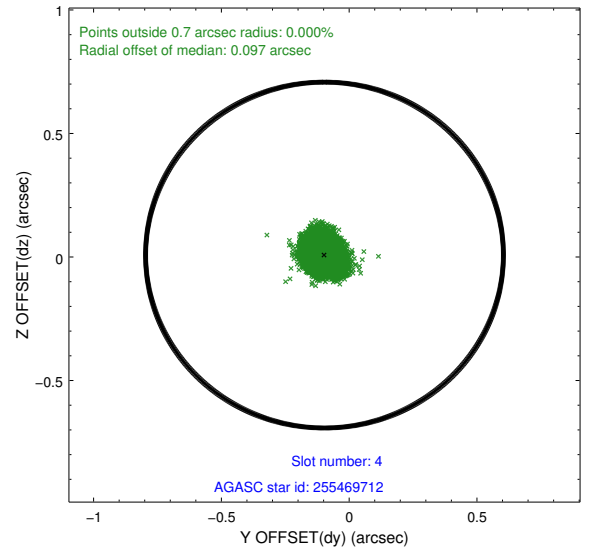
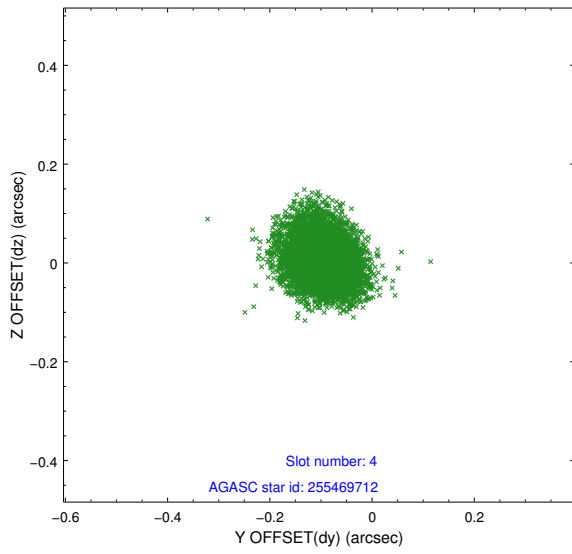
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2.4 Star Slots

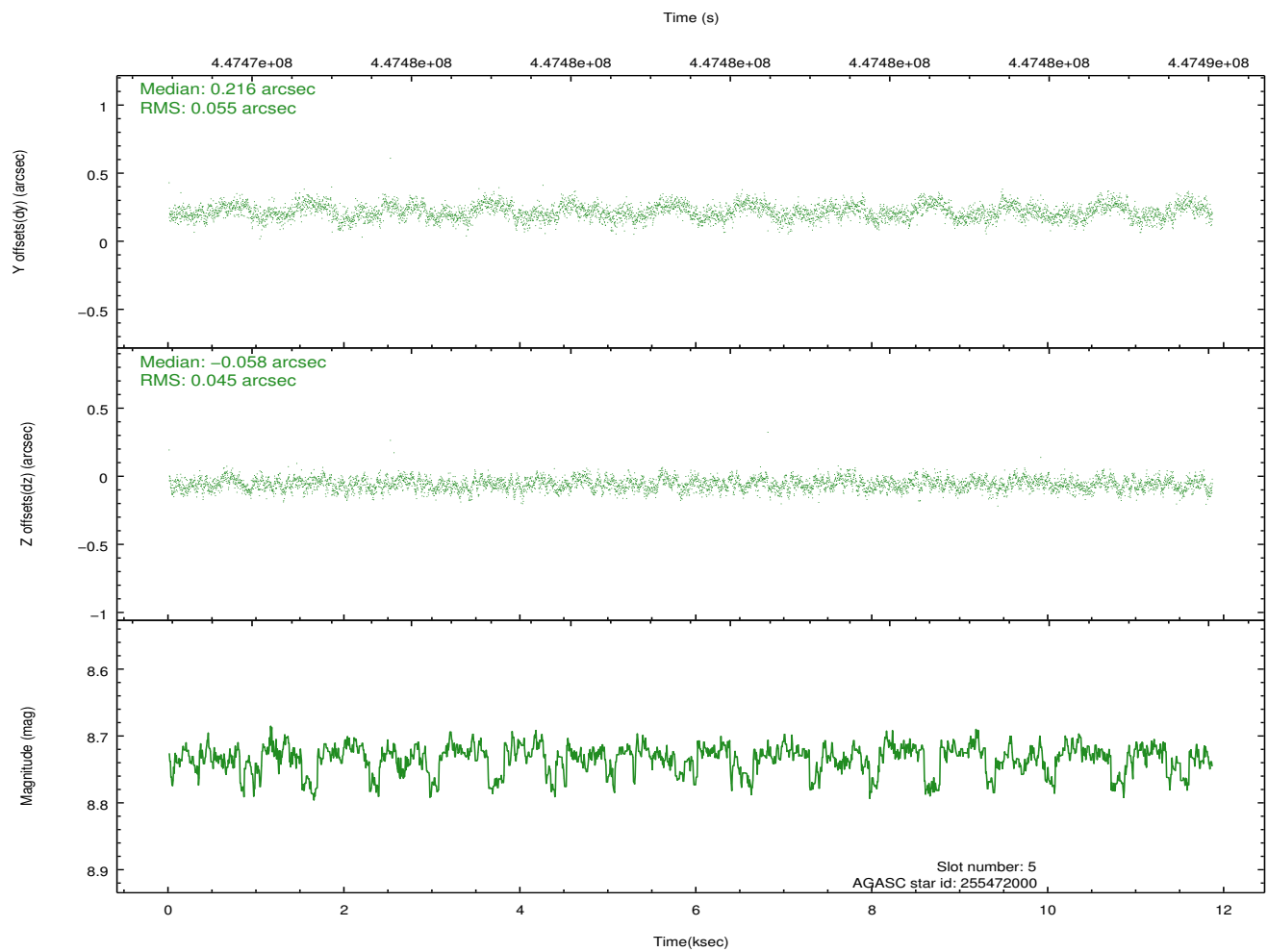
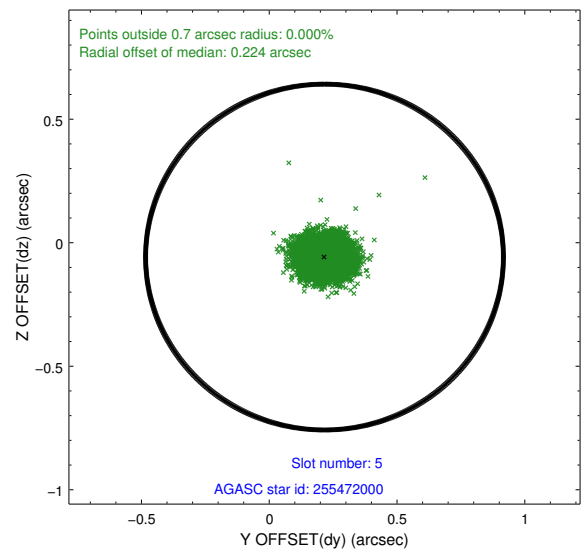
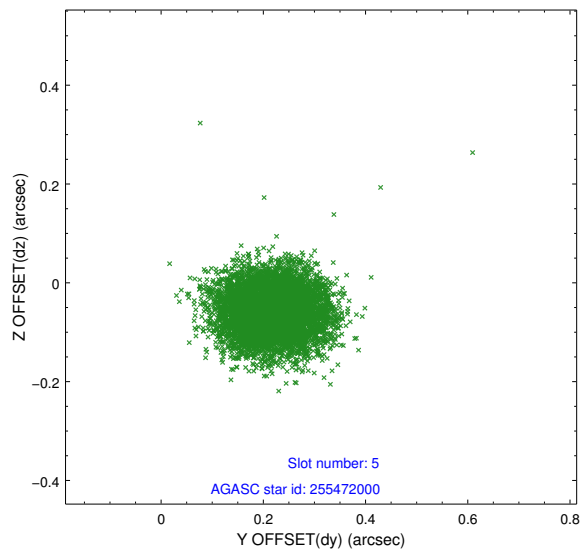
2.4.1 Slot 3



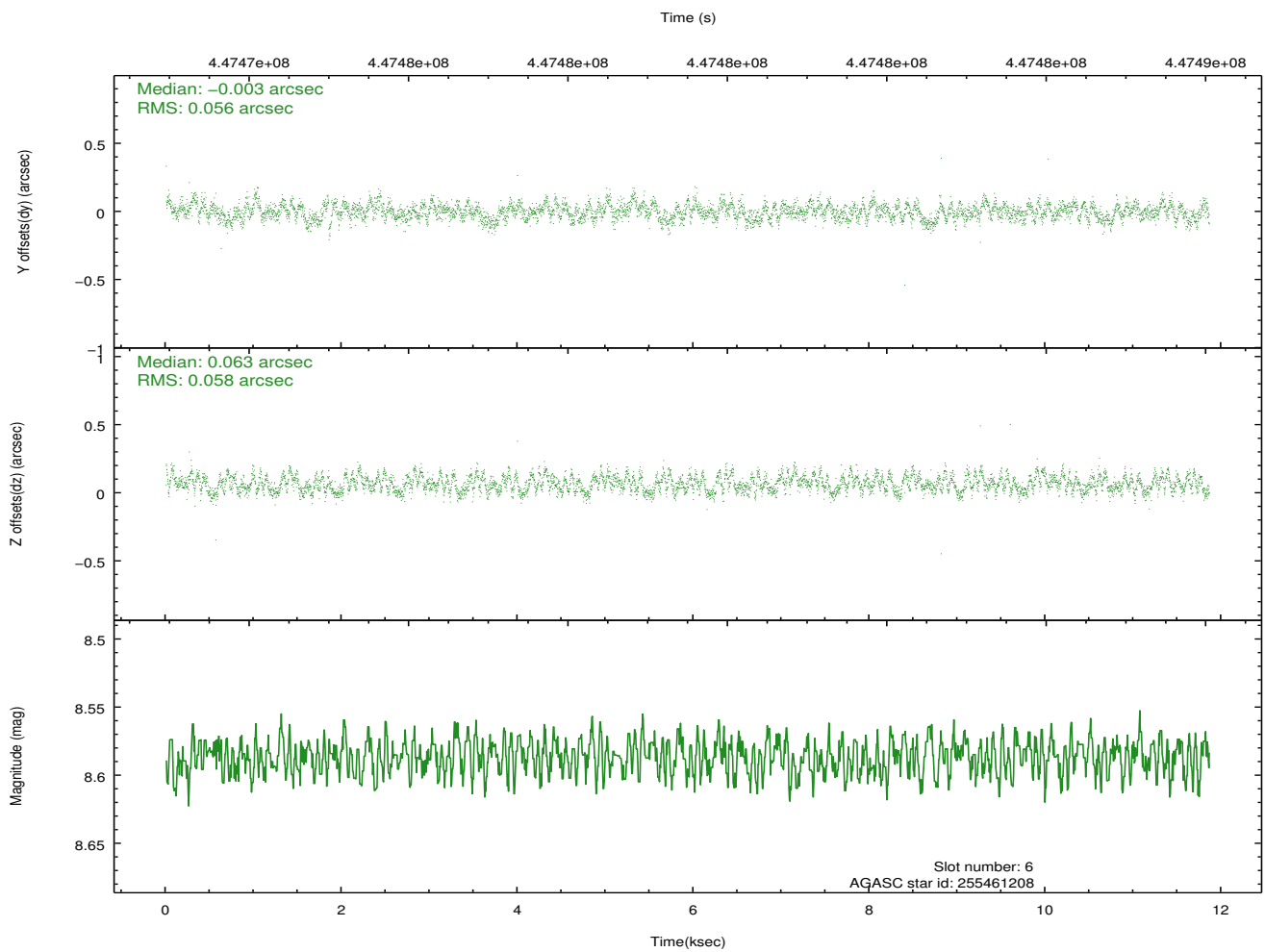
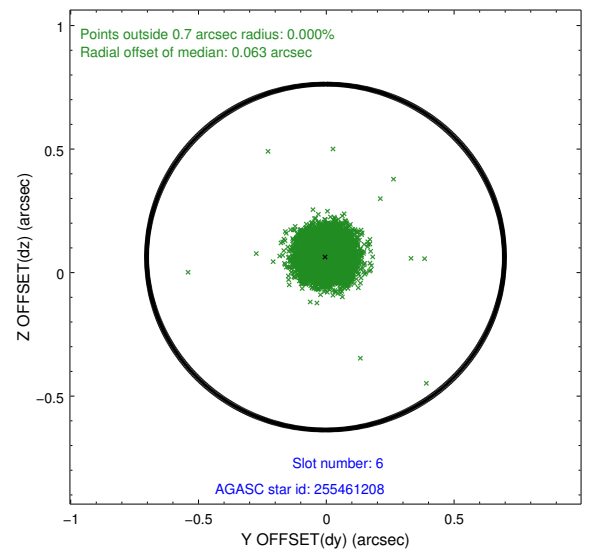
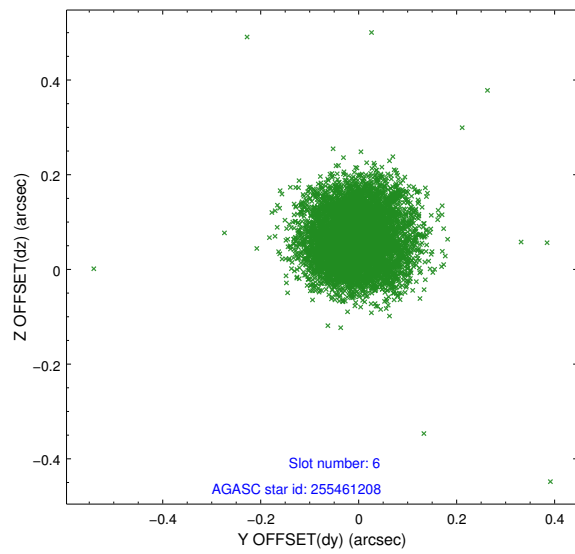
2.4.2 Slot 4



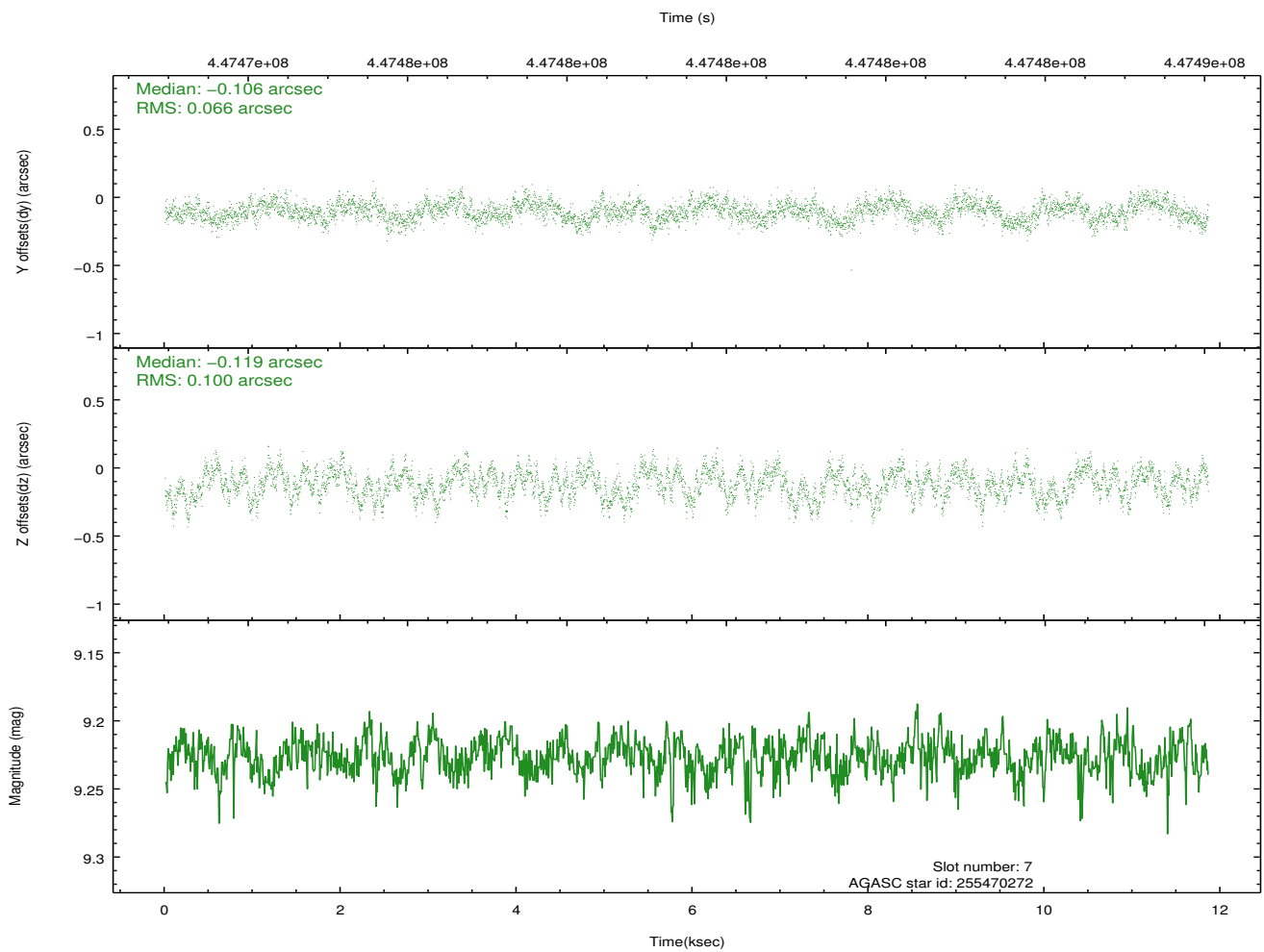
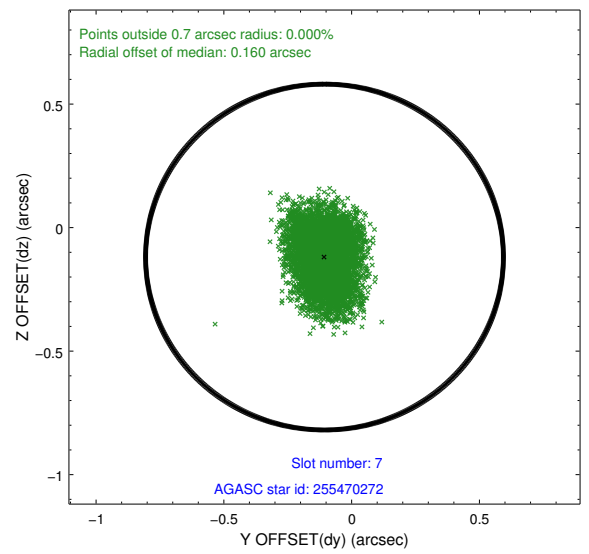
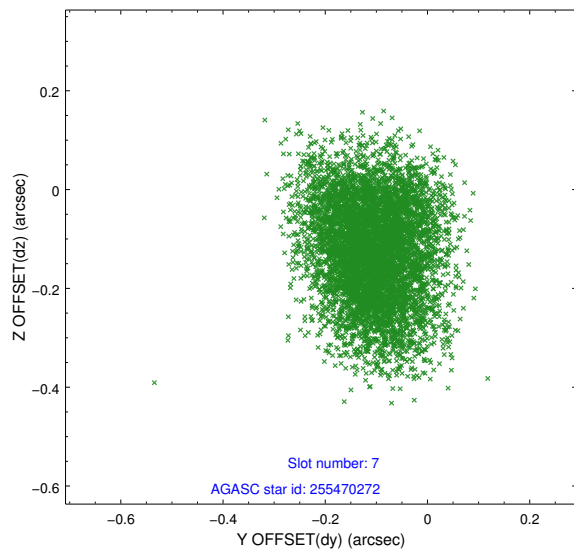
2.4.3 Slot 5



2.4.4 Slot 6

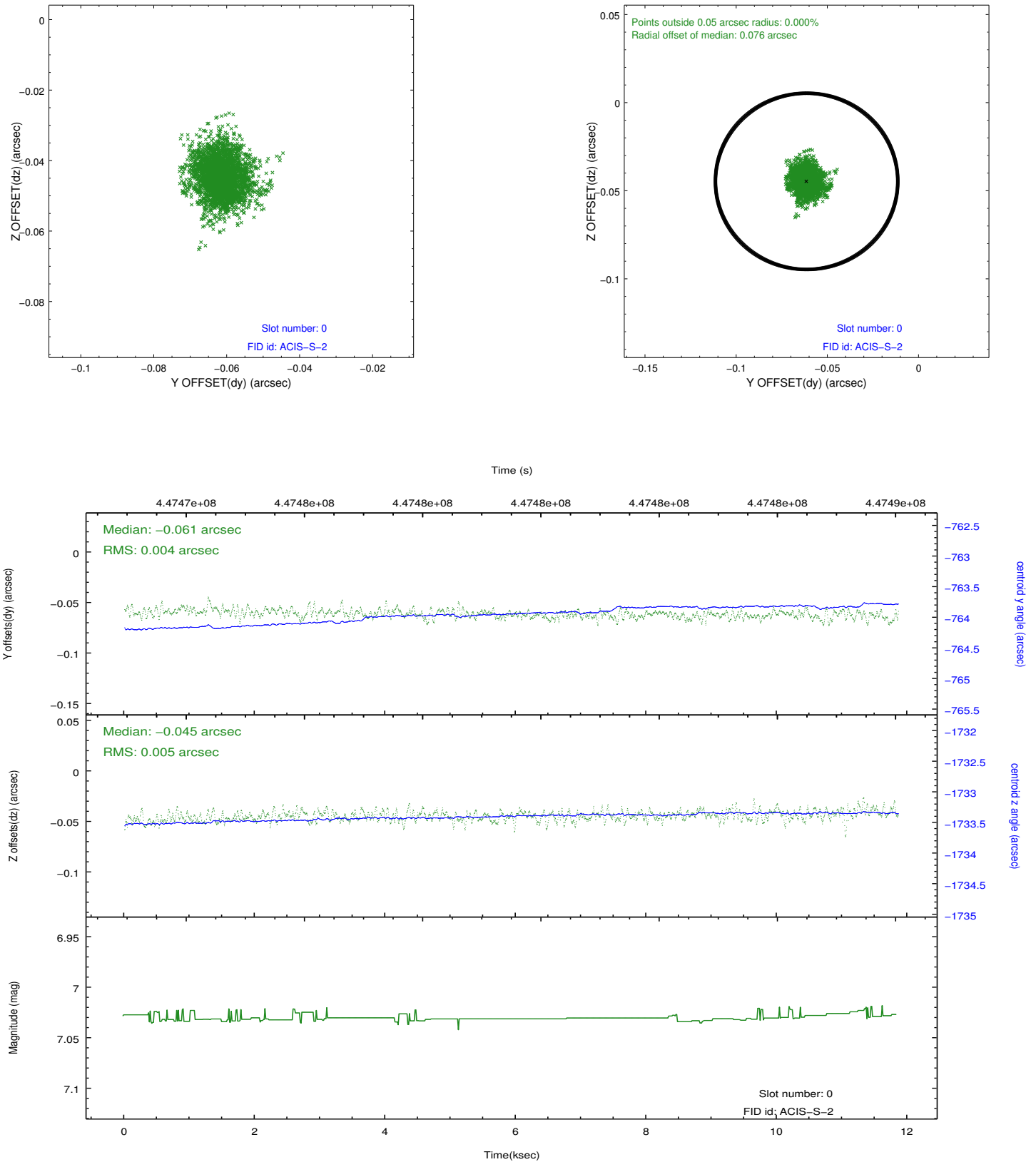


2.4.5 Slot 7

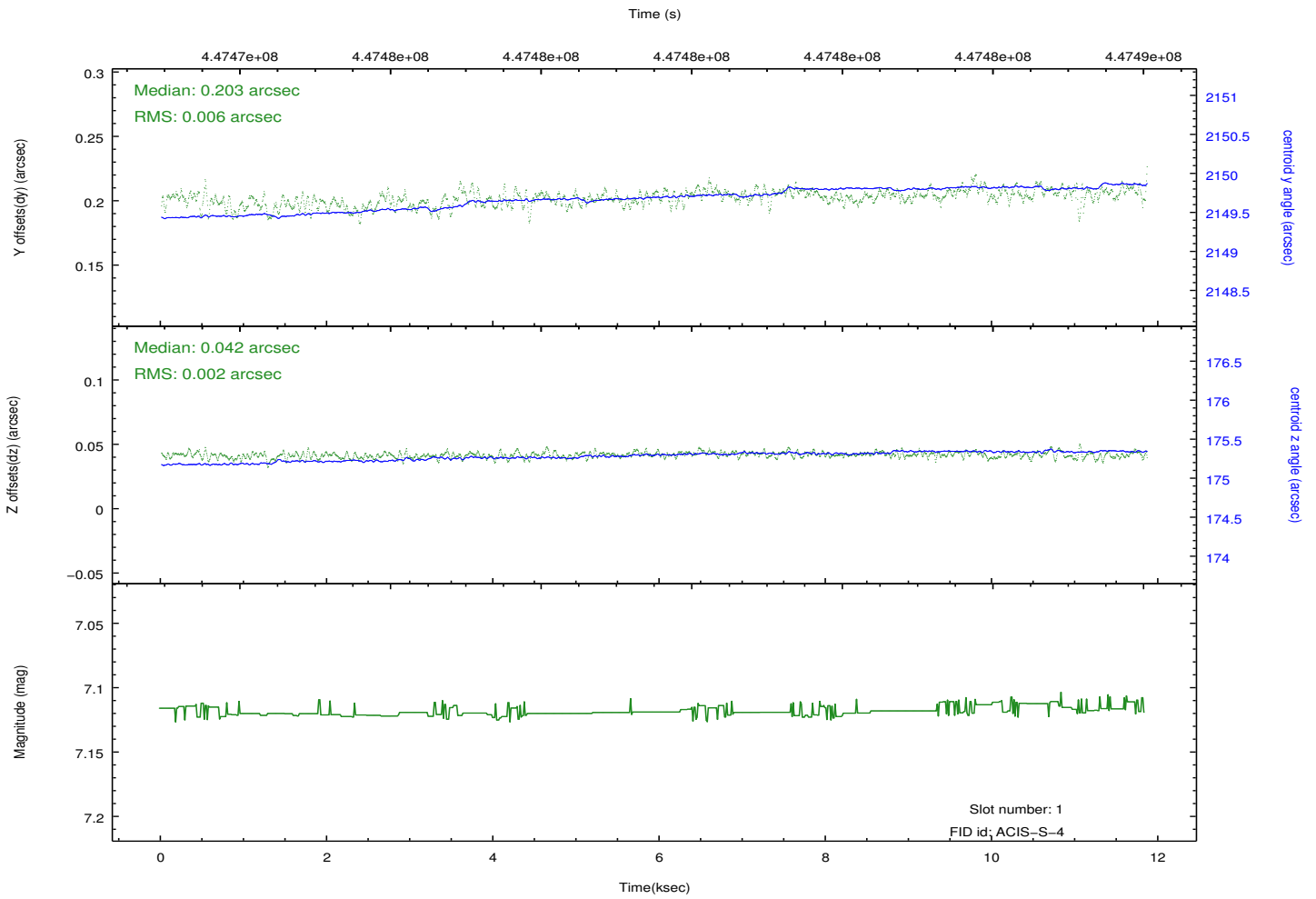
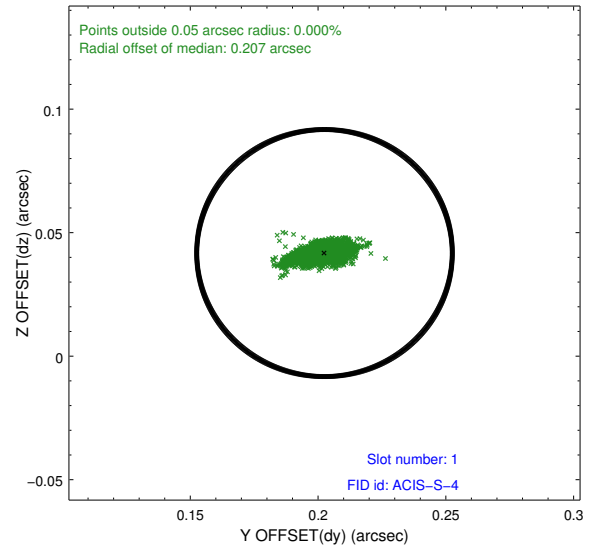
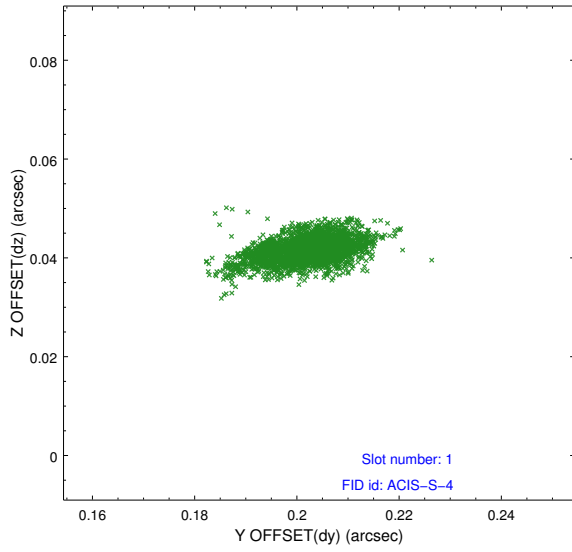


2.5 FID Slots

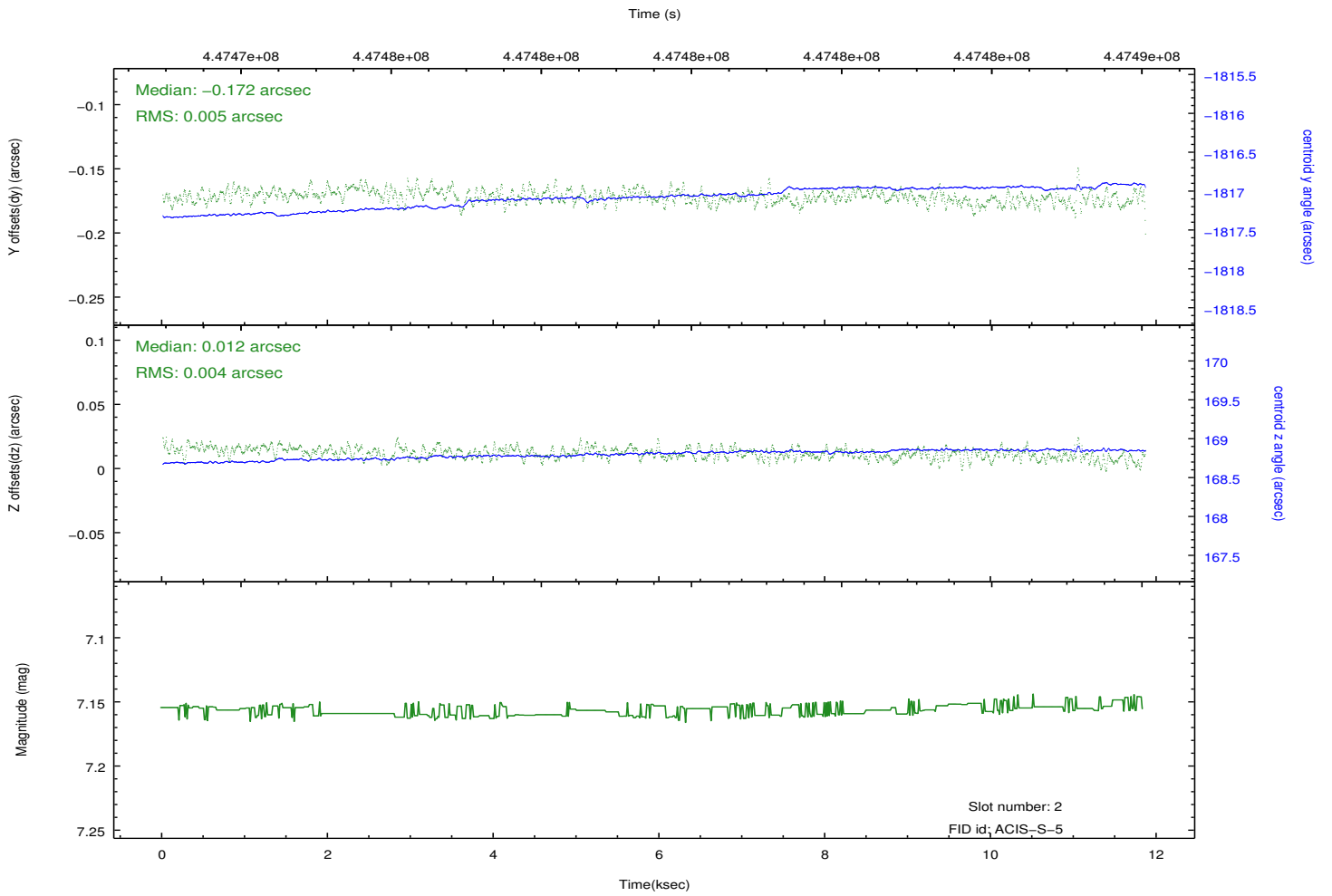
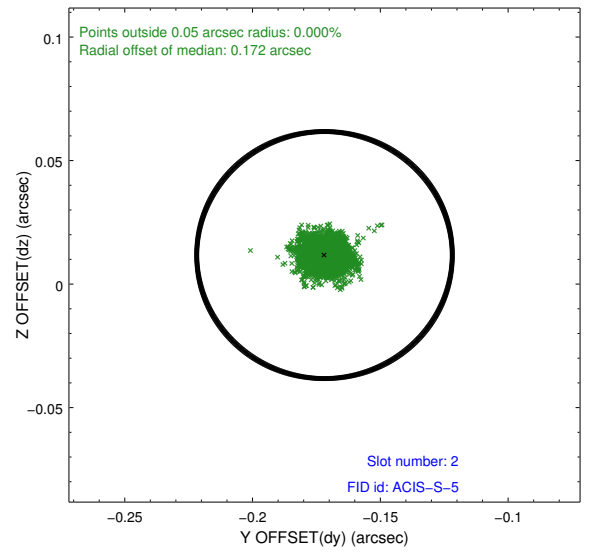
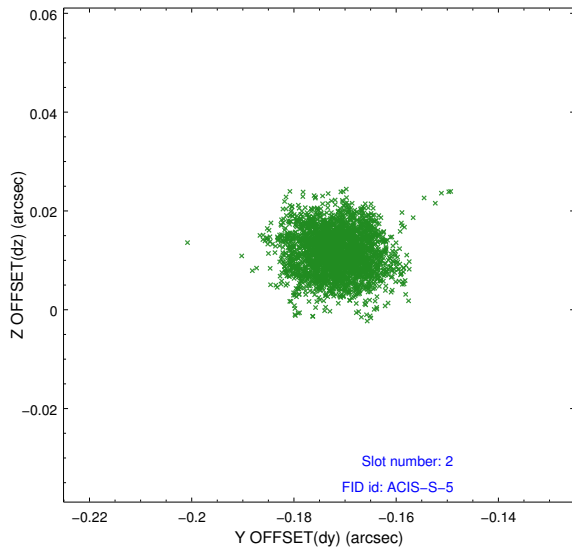
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.03.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.786399297476

A.2 Comments

This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment.