

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15556 - L2 Version 2
Chandra X-Ray Center

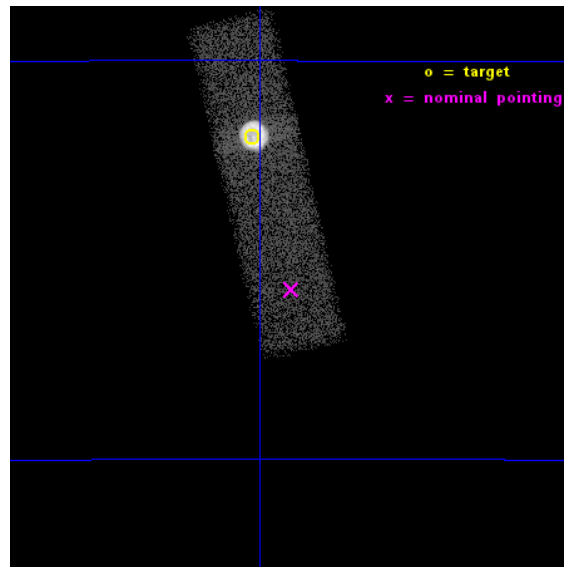
L2 Processing Date : Dec 1 2014

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1 Front

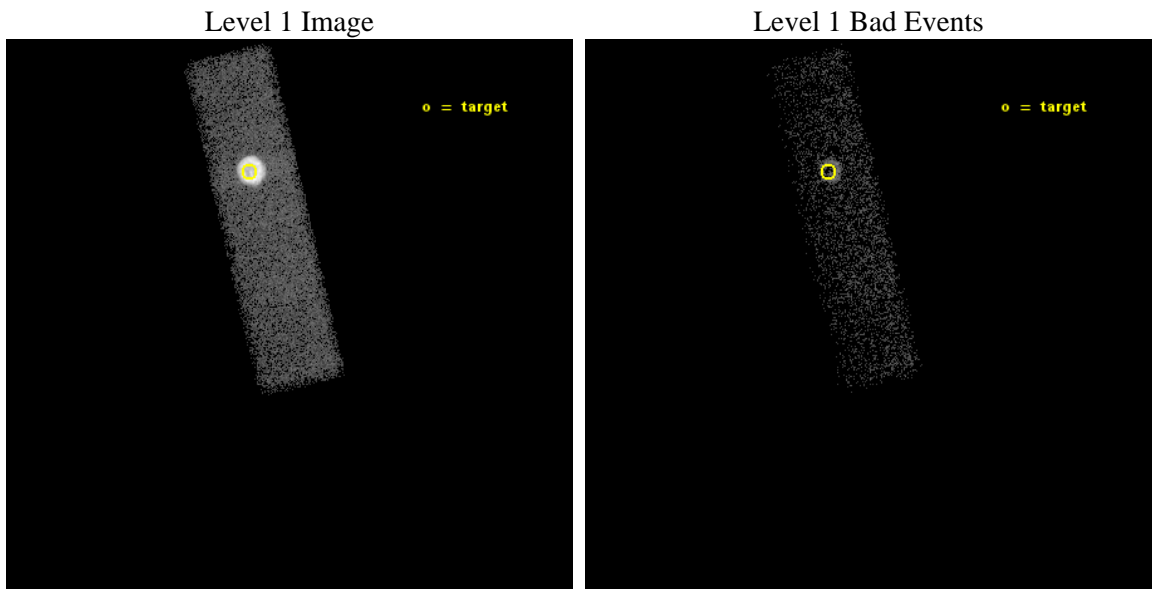
seq_num	590528	Sequence number
obs_id	15556	Observation id
title	AO-14 S3 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 S3,-120,-3.3,0,-7.7	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.954786804358	Nominal RA [deg]
dec_nom	-72.095773737372	Nominal Dec [deg]
roll_nom	256.60065686717	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25064.000373542	Sum of GTIs [s]
livetime	23840.959168213	Livetime [s]
ontime7	25064.000373542	Sum of GTIs [s]
l2events	116040	Number of level 2 events



2 OBI

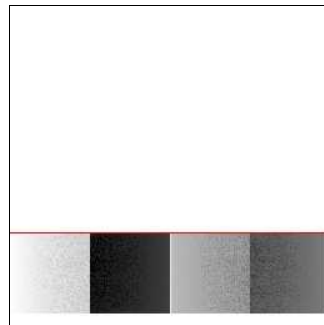
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	25064.000373542	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	25064.000373542	Sum of GTIs [s]
date	2014-12-01T12:04:15	Date and time of file creation	l1events	134870	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

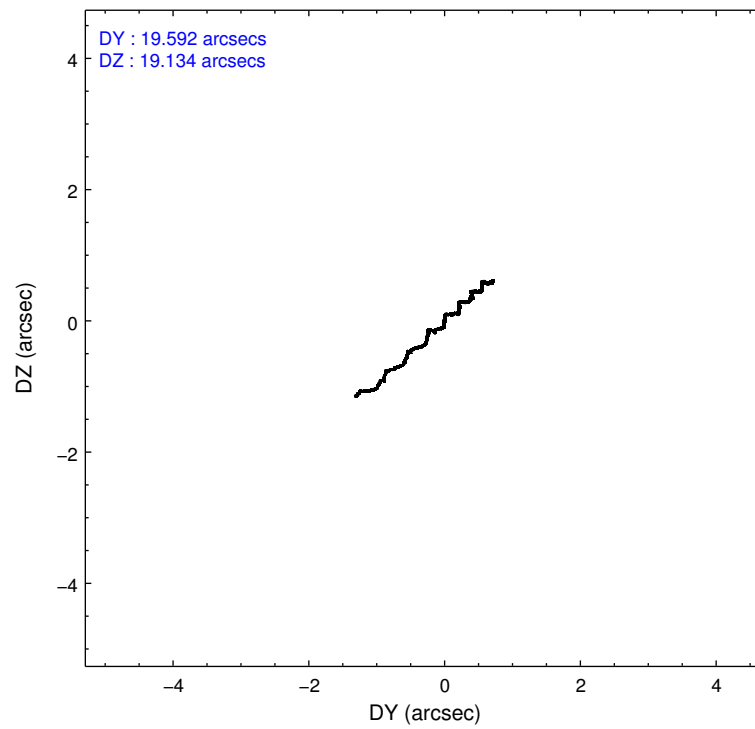
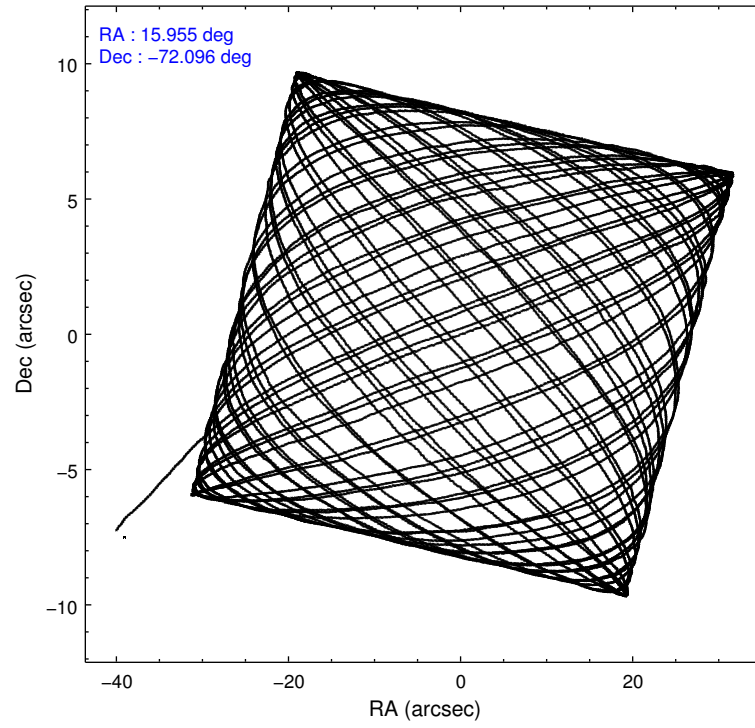
	ccd 7
level 1 events	134870
rejected events	18276
rejected %	13%

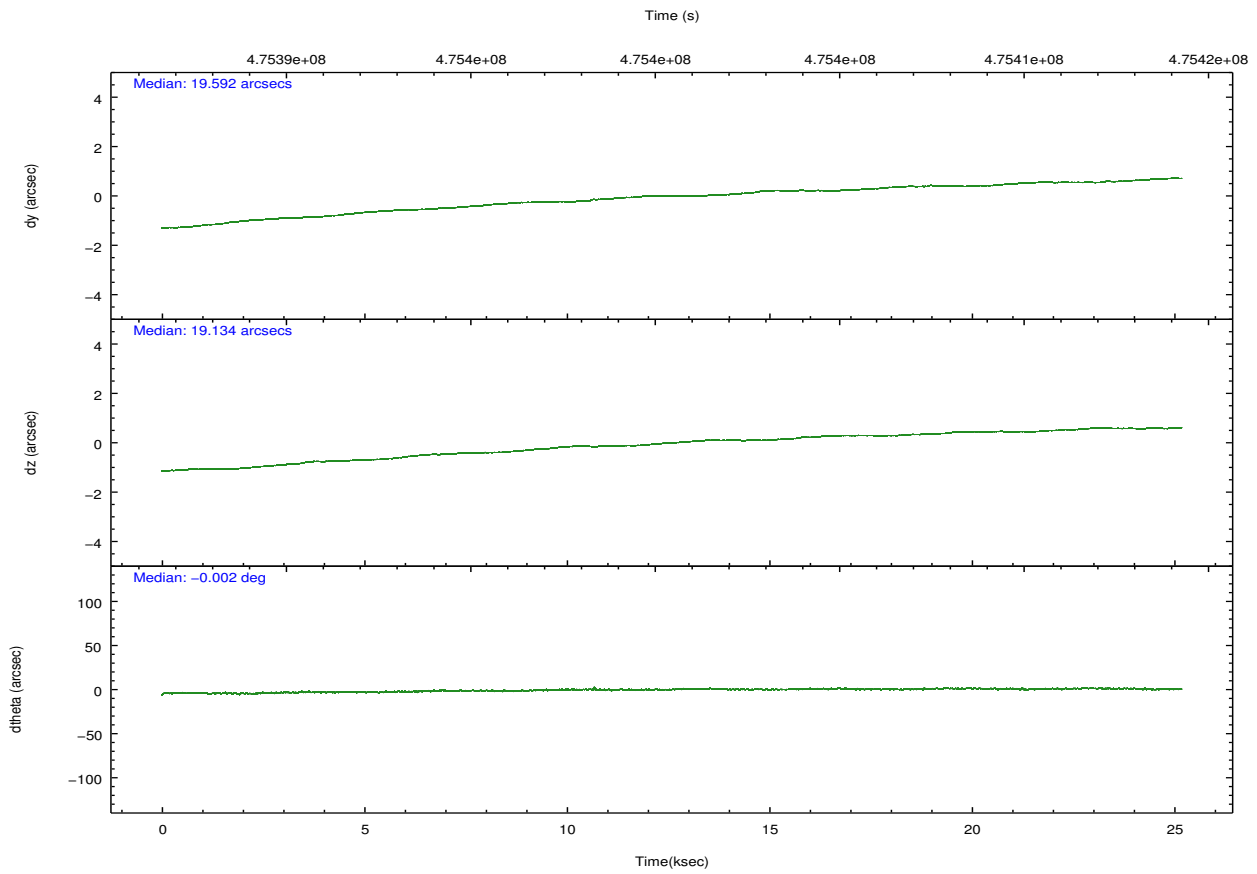
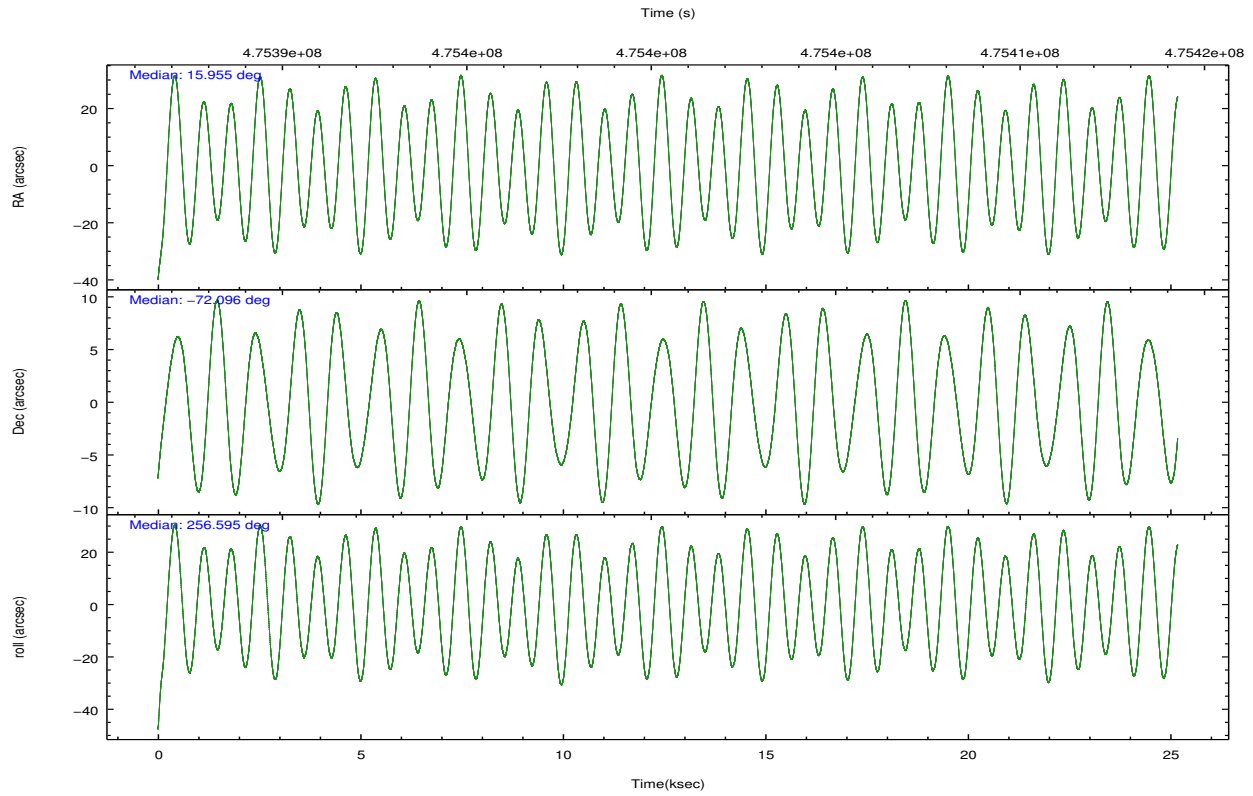
	ccd 7
grade 0 events	34564
	25%
grade 1 events	144
	0%
grade 2 events	30478
	22%
grade 3 events	14066
	10%
grade 4 events	14000
	10%
grade 5 events	4350
	3%
grade 6 events	23490
	17%
grade 7 events	13778
	10%

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	15.928296	15.9547868043579	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.069645	-72.09577373737203	Subarray start row	42	42
[deg] Pointing Roll	256.418829	256.6006568671671	Subarray row count	256	256
[s] Window start time (MET)	470707267.184000	470707267.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	483667267.184000	483667267.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.432523	-182.4387182811936			
[mm] SIM translation stage offset	-7.7	-7.693804301814197			
[s] Observation start time (MET)	475388039.184000	475387262.62414			
Observation start date	2013-01-24T04:12:52	2013-01-24T04:01:02			
[s] Observation end time (MET)	475413039.184000	475413781.93807			
Observation end date	2013-01-24T11:09:32	2013-01-24T11:23:01			
Read mode	TIMED	TIMED			

2.3 Aspect





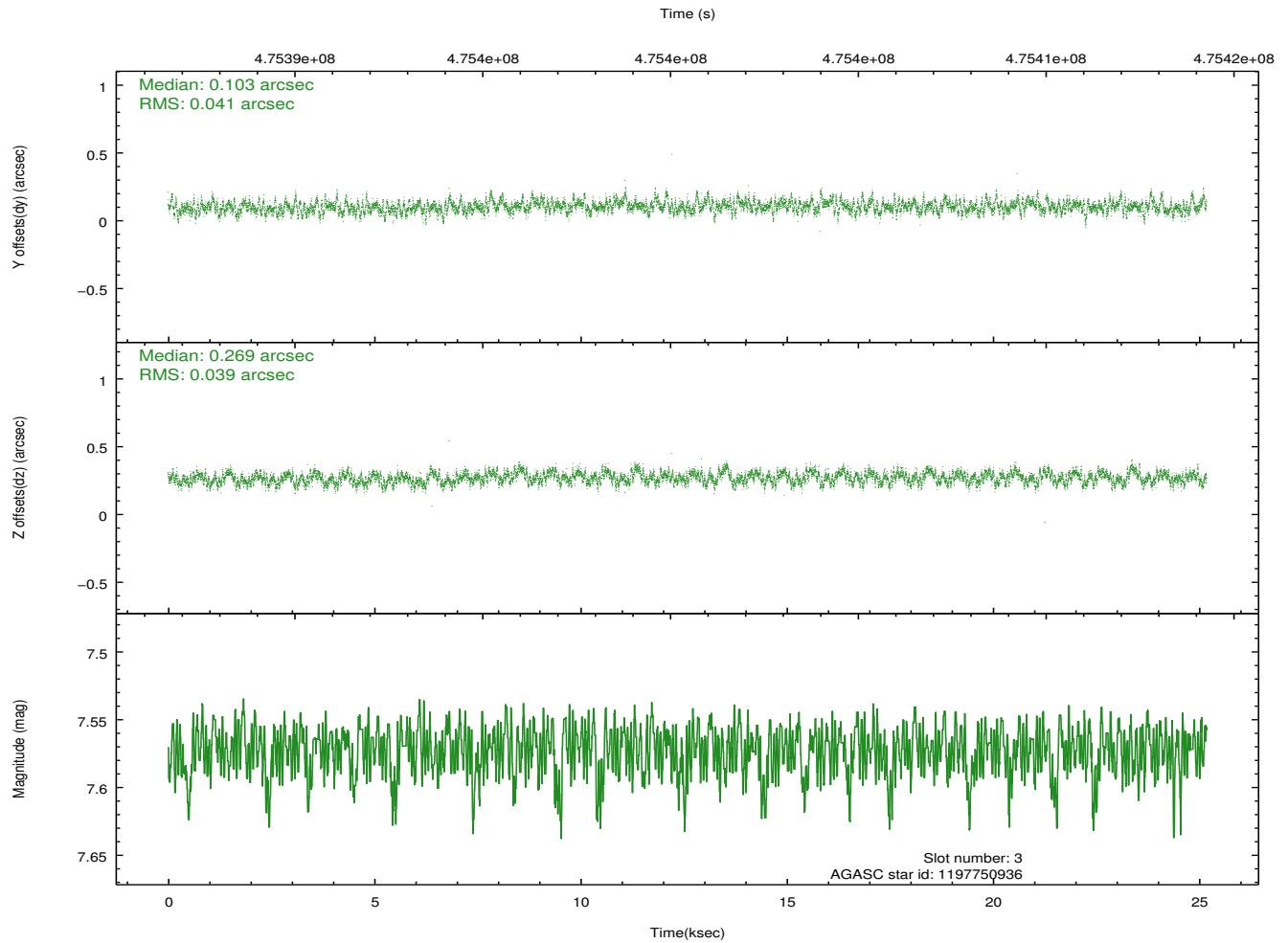
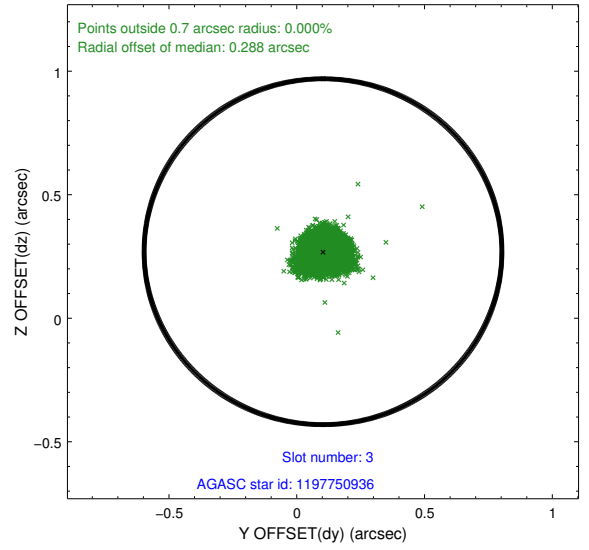
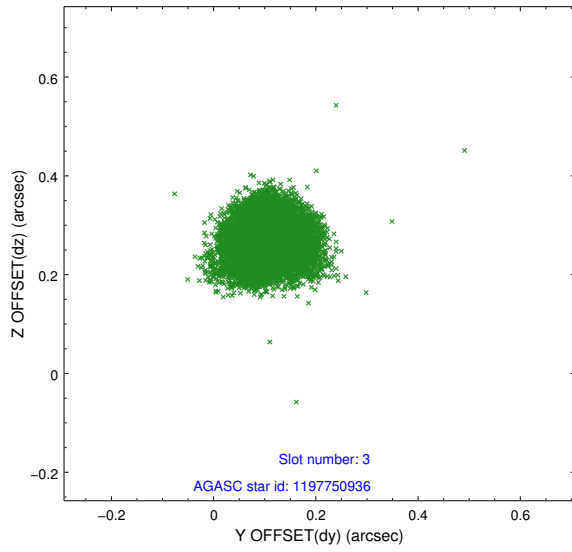
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	6142	-0.196	-0.147	0.015	0.027	0.000000	0.000000	-772.29	-1899.14
1	FID		ACIS-S-4	7.00	6142	0.169	0.116	0.022	0.039	0.000000	0.000000	2141.37	9.33
2	FID		ACIS-S-6	7.22	6142	-0.001	0.038	0.028	0.047	0.000000	0.000000	390.13	646.86
3	GUIDE	used	1197750936	7.57	12281	0.103	0.269	0.060	0.096	15.387940	-71.549550	-1671.86	-1037.17
4	GUIDE	used	1197884712	8.29	12275	0.069	-0.156	0.089	0.141	16.087398	-72.252690	599.91	324.34
5	GUIDE	used	1197885328	7.25	12283	0.119	-0.102	0.073	0.128	16.283090	-71.733943	-1268.17	106.52
6	GUIDE	used	1198283128	7.73	12283	-0.143	-0.179	0.059	0.092	17.272580	-72.642428	1680.83	1891.27
7	GUIDE	used	1198189696	7.39	12282	-0.148	0.168	0.052	0.086	15.223750	-72.697522	2378.88	-200.68

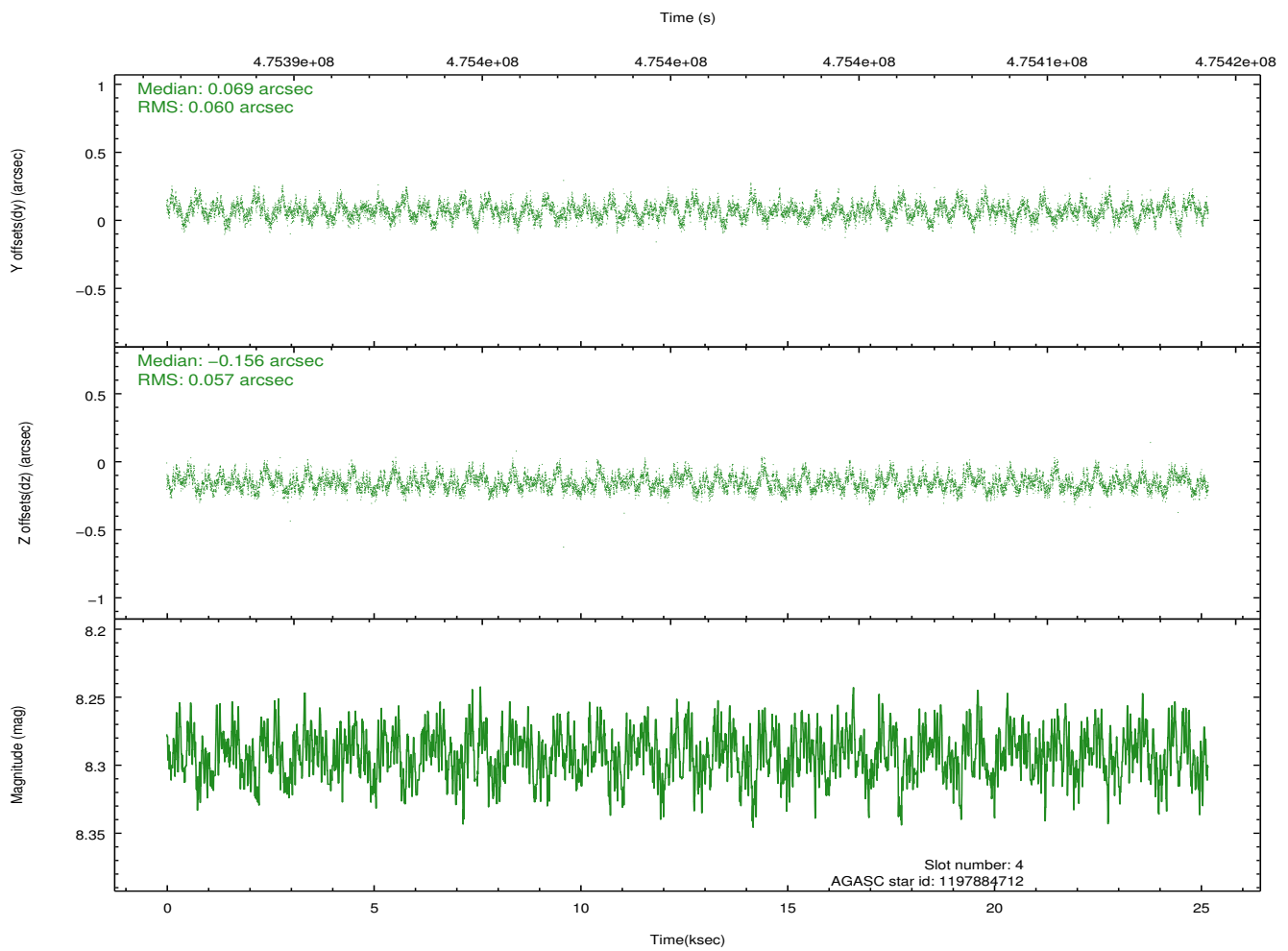
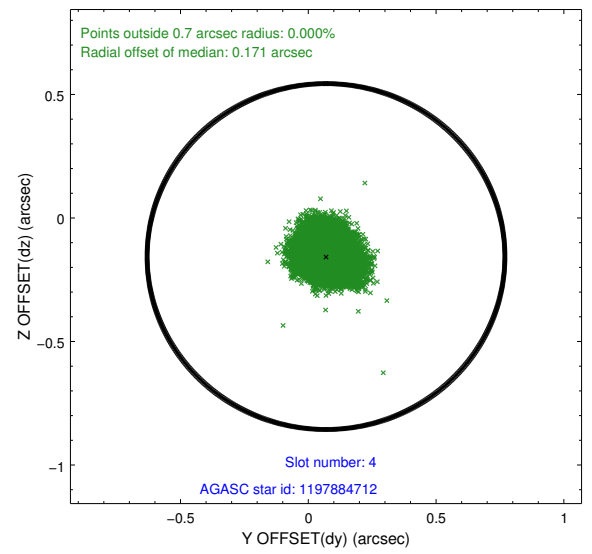
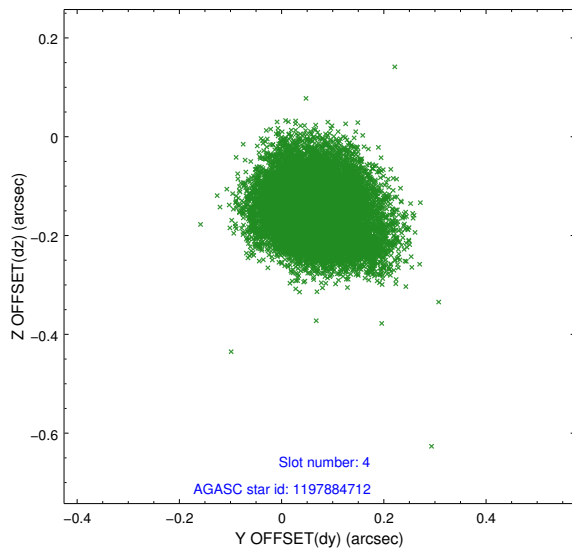
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2.4 Star Slots

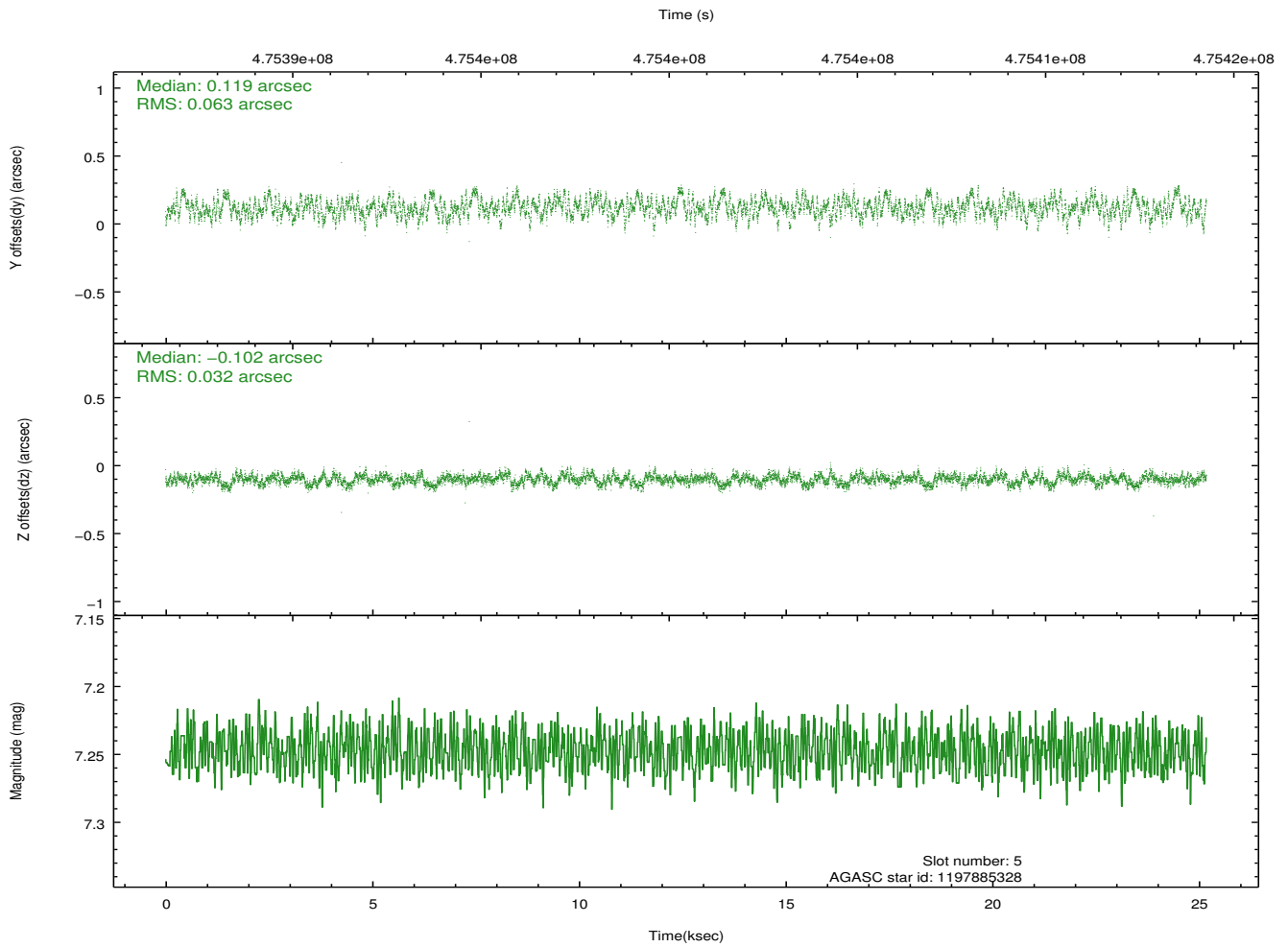
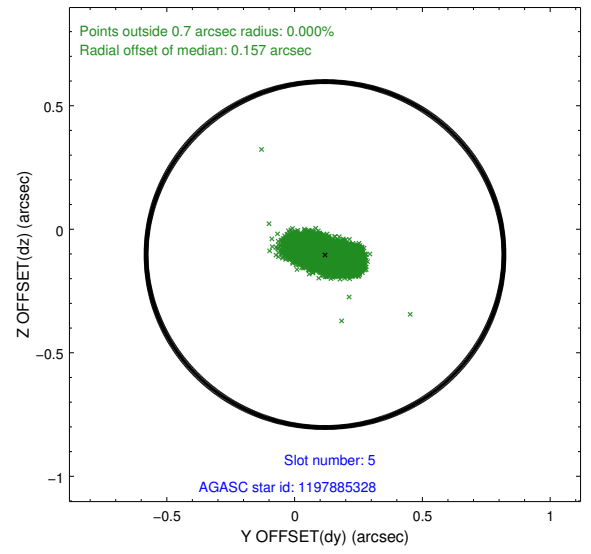
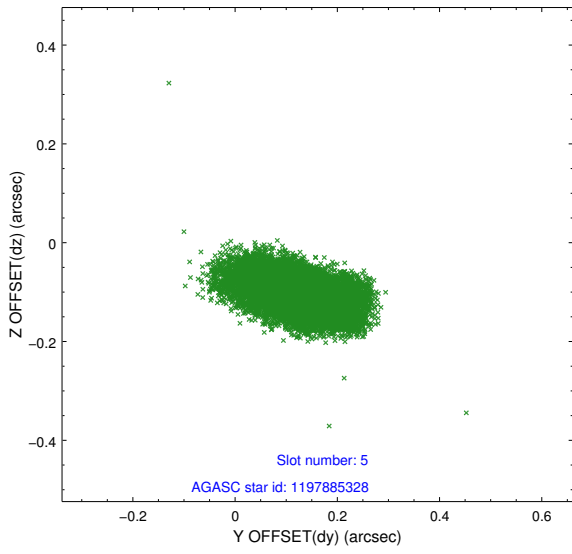
2.4.1 Slot 3



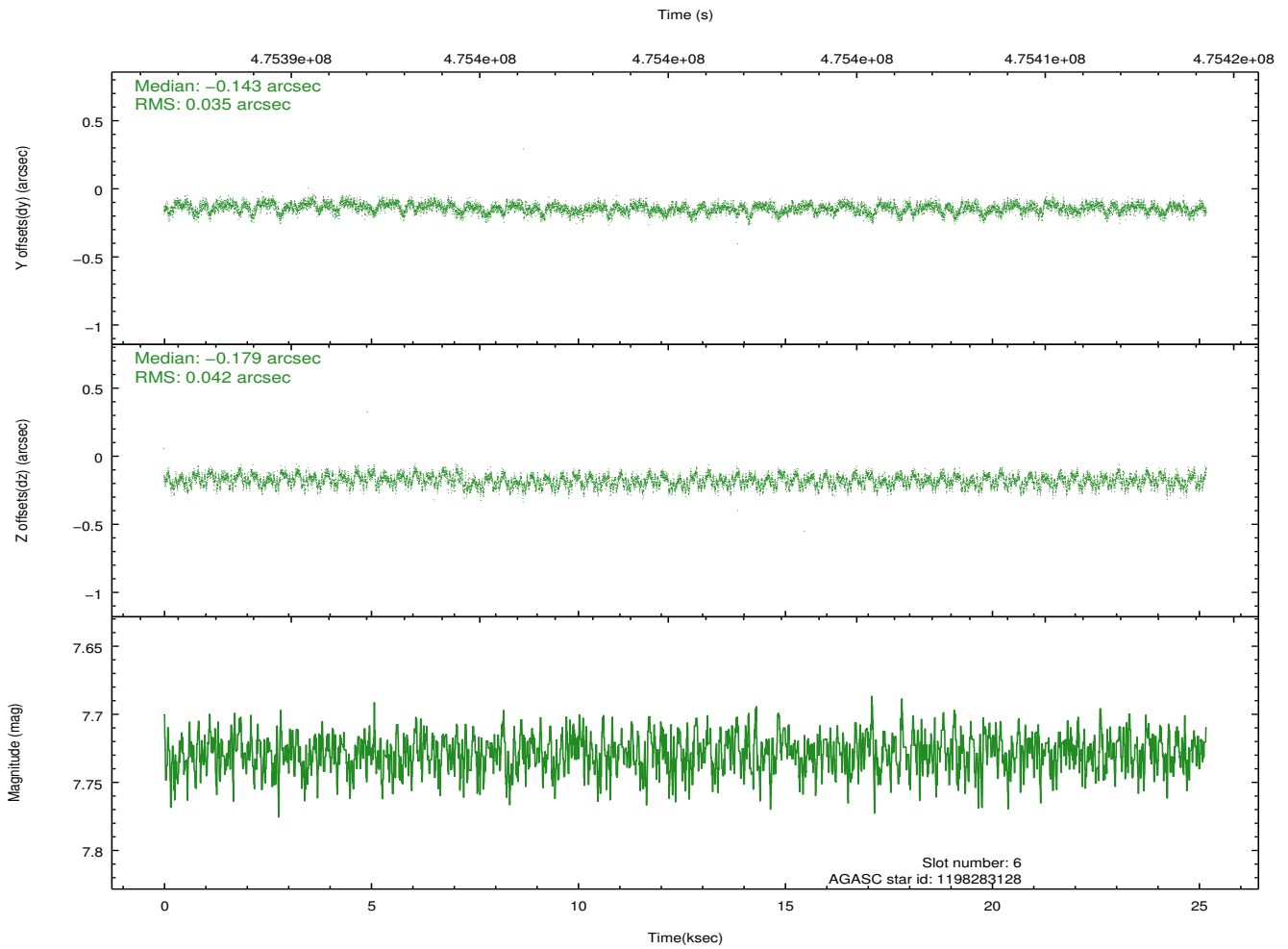
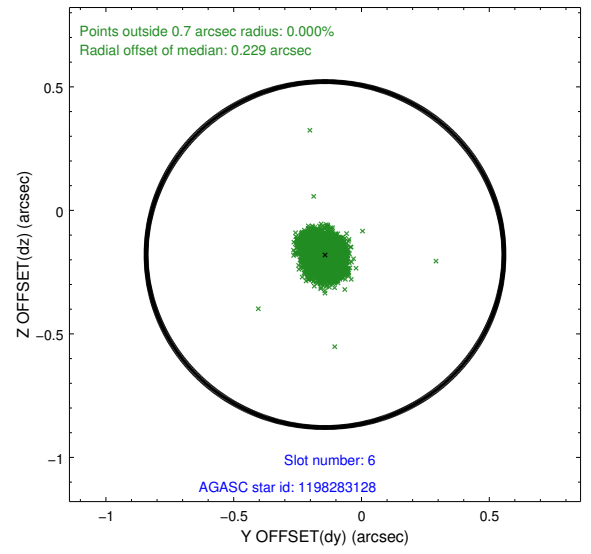
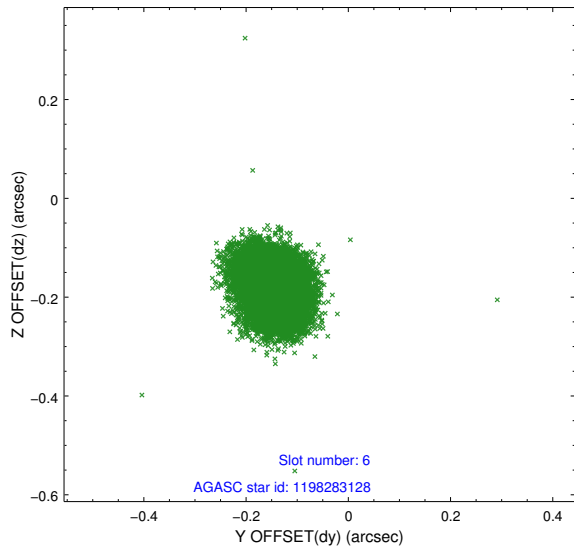
2.4.2 Slot 4



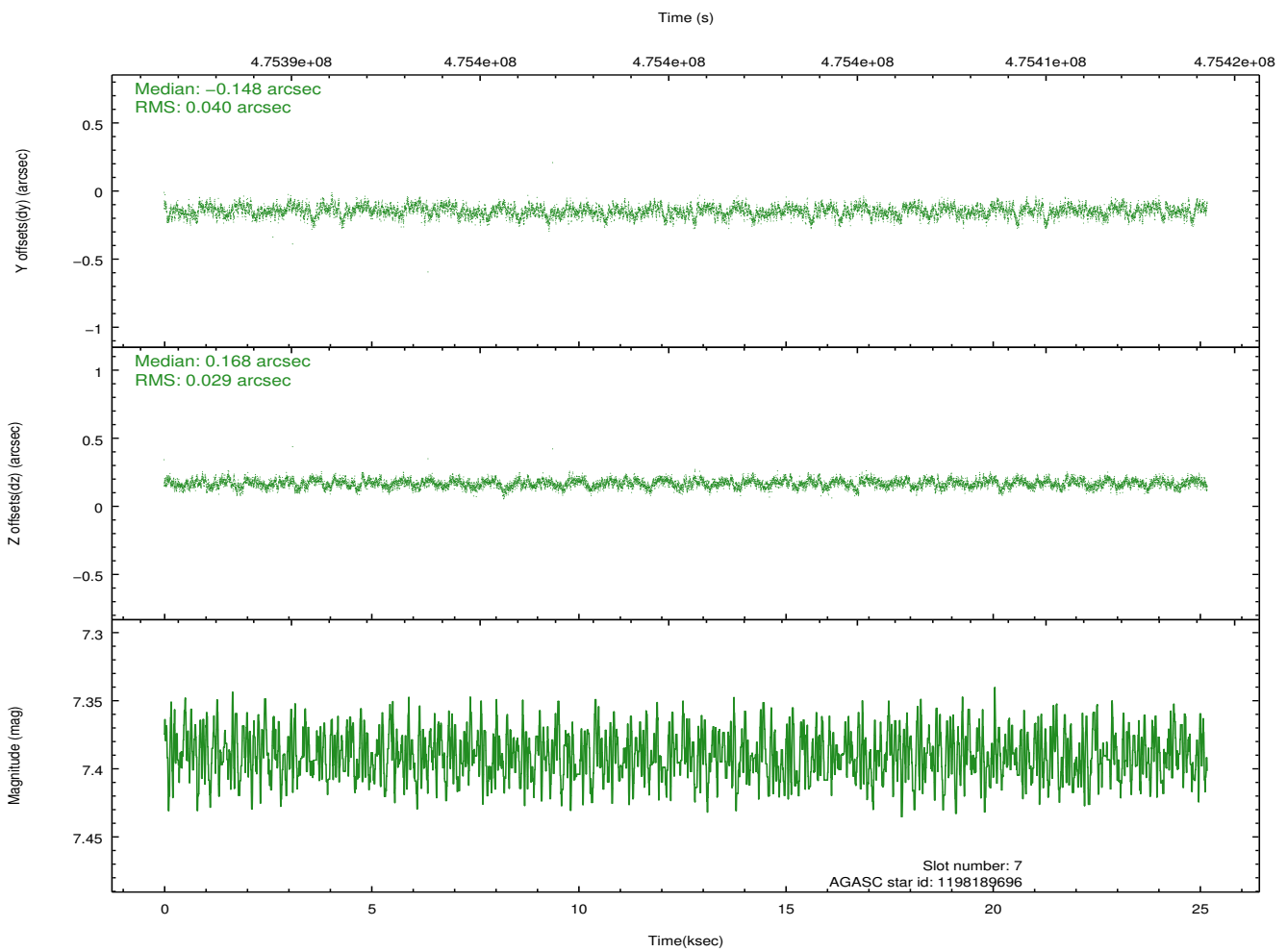
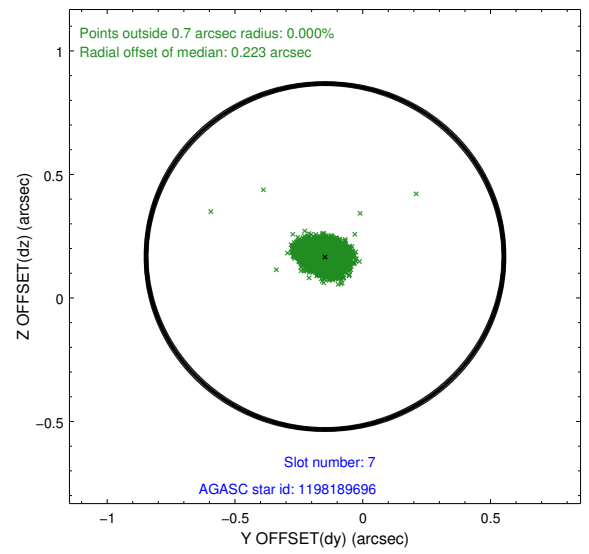
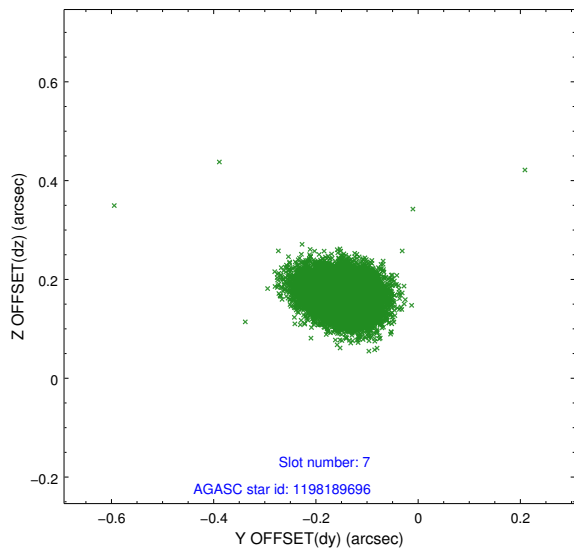
2.4.3 Slot 5



2.4.4 Slot 6

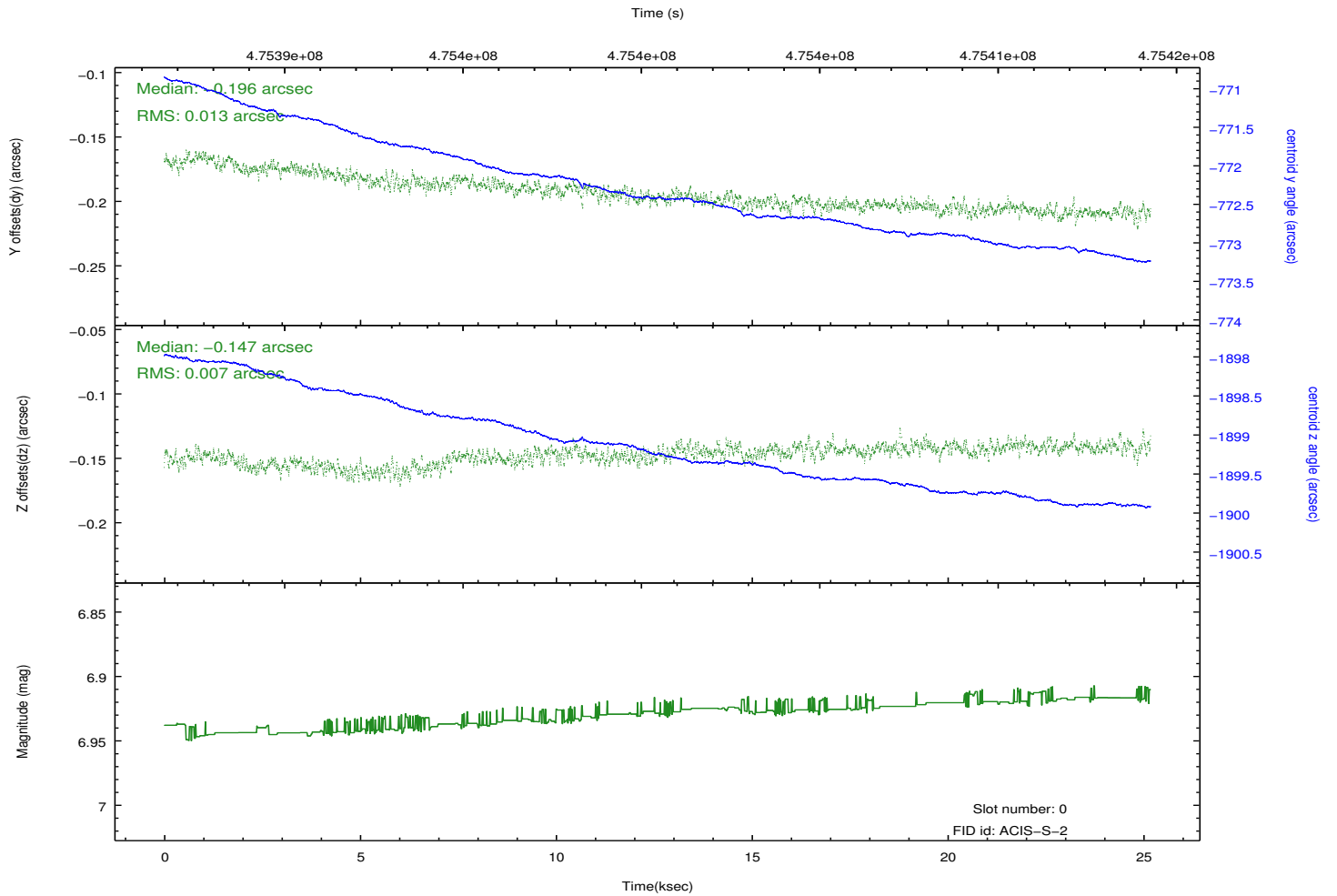
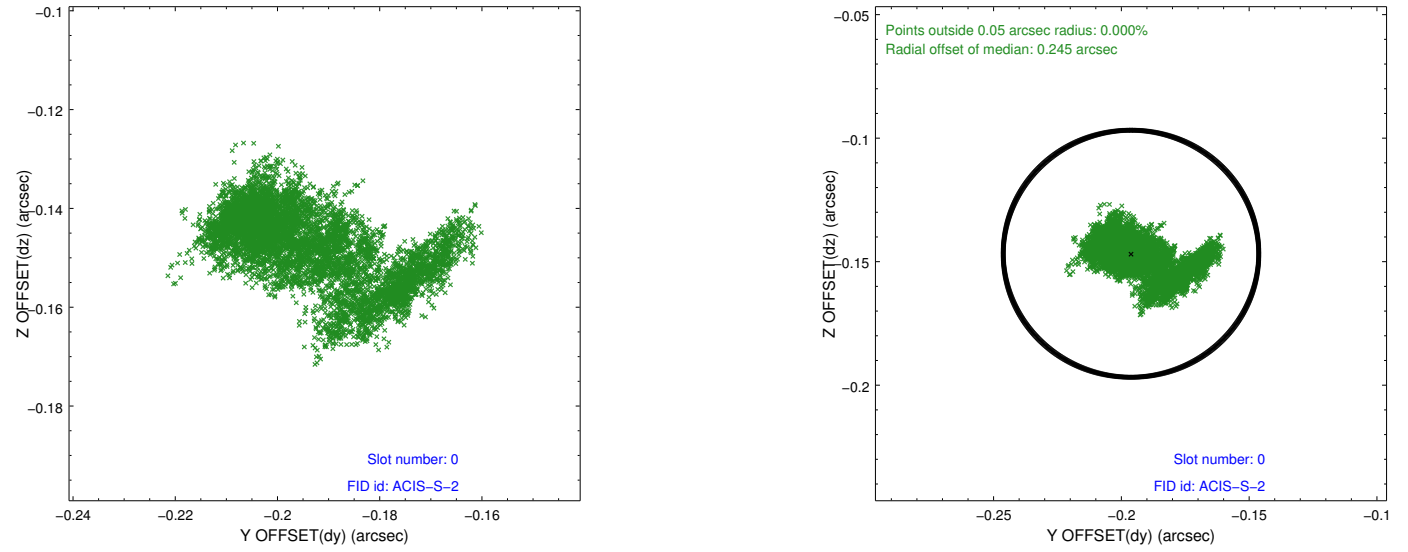


2.4.5 Slot 7

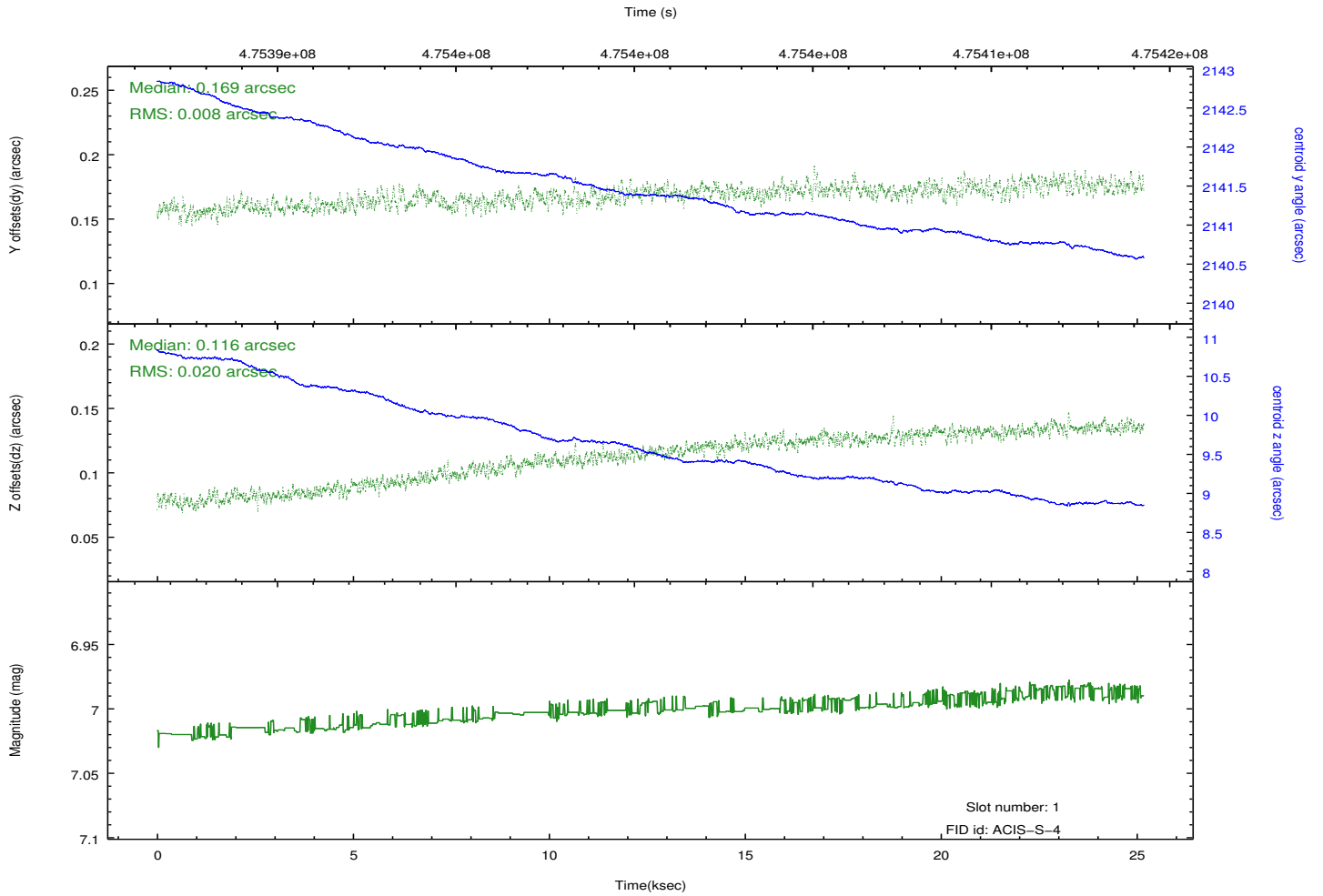
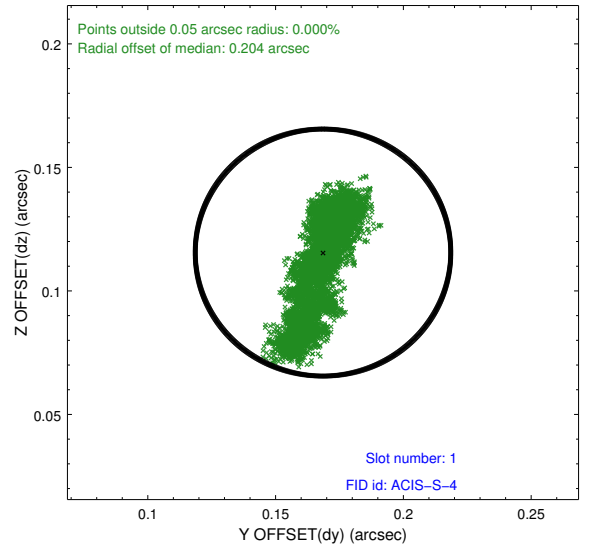
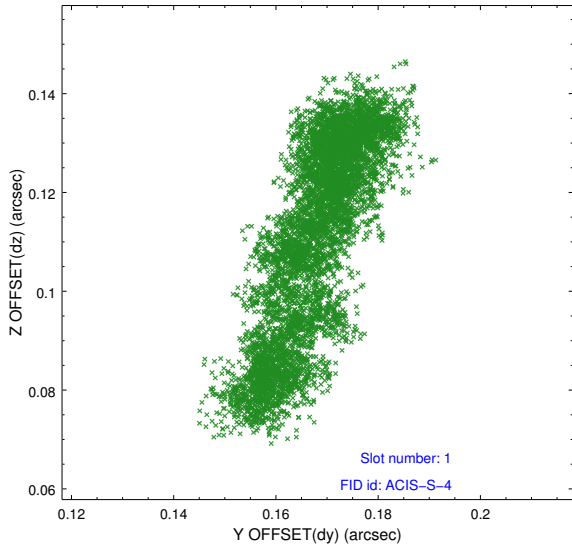


2.5 FID Slots

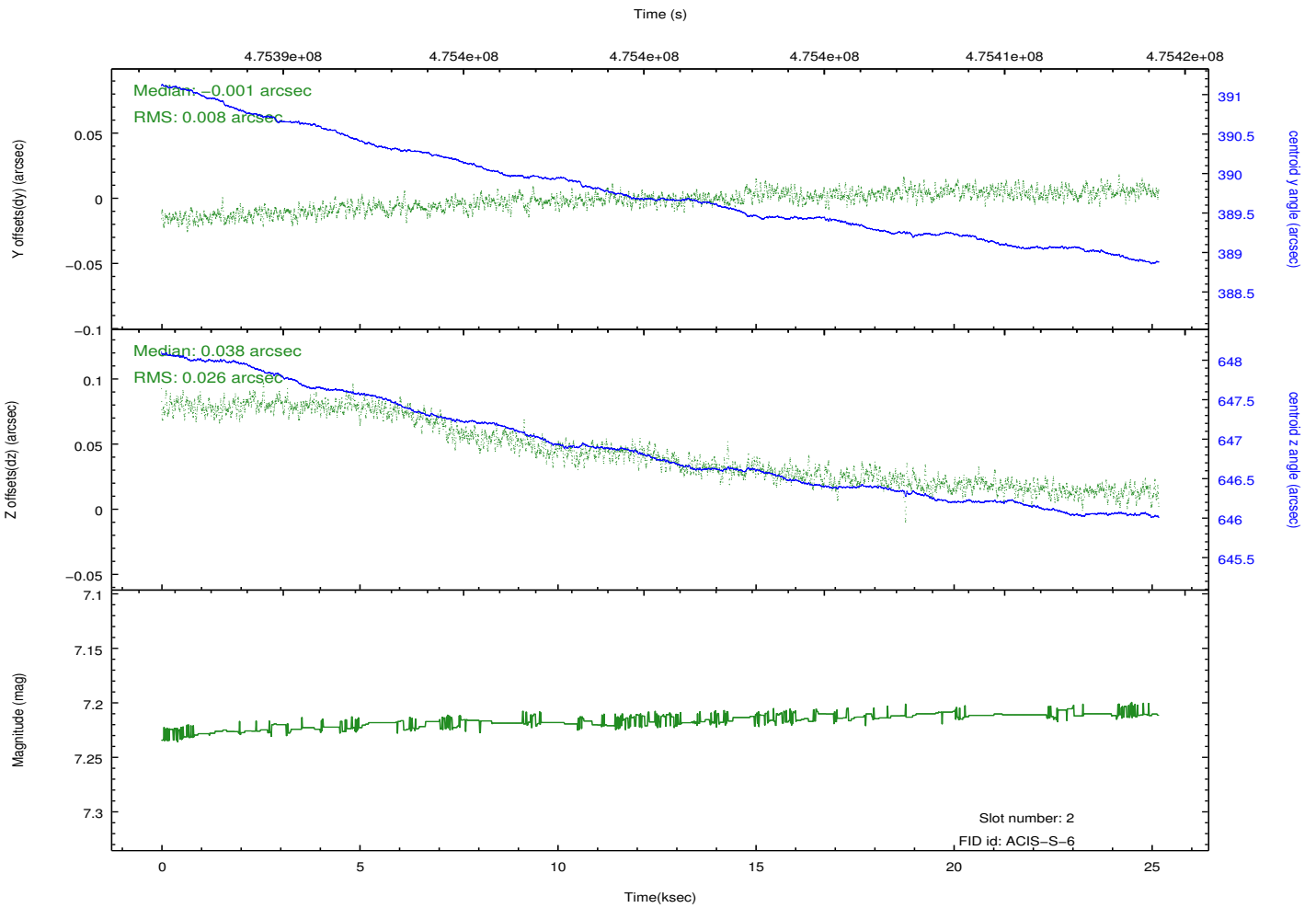
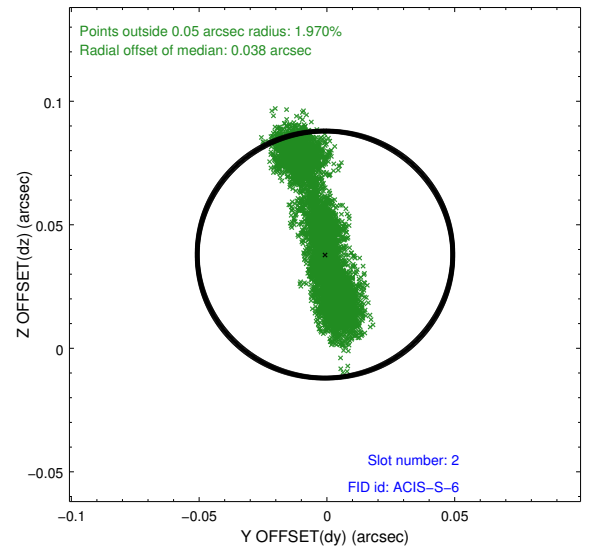
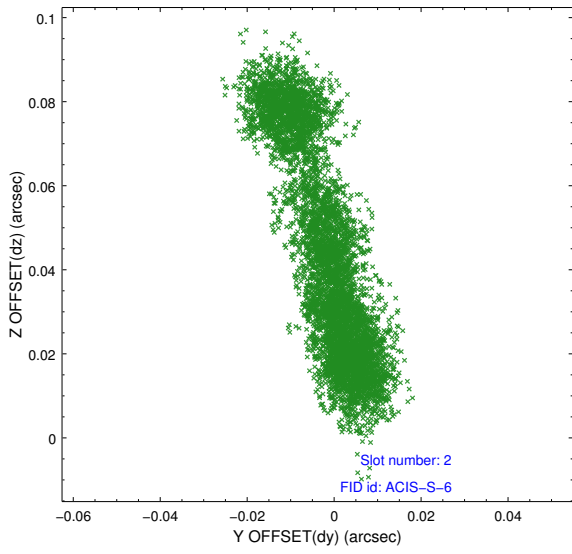
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.064000373542

A.2 Comments

Window preference met.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.