

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15466 - L2 Version 2
Chandra X-Ray Center

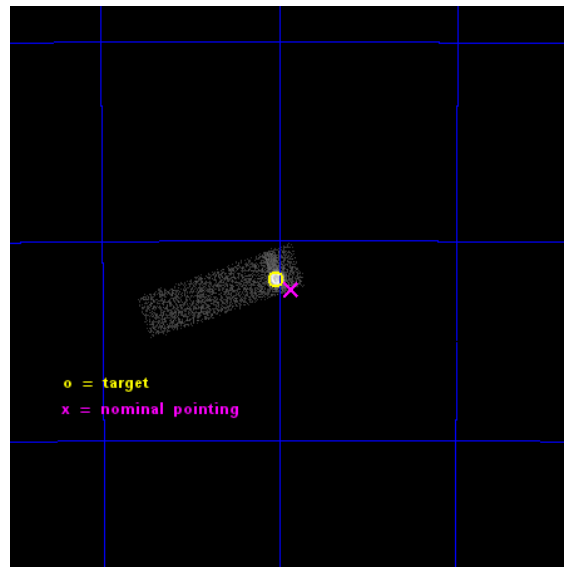
L2 Processing Date : Dec 1 2014

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

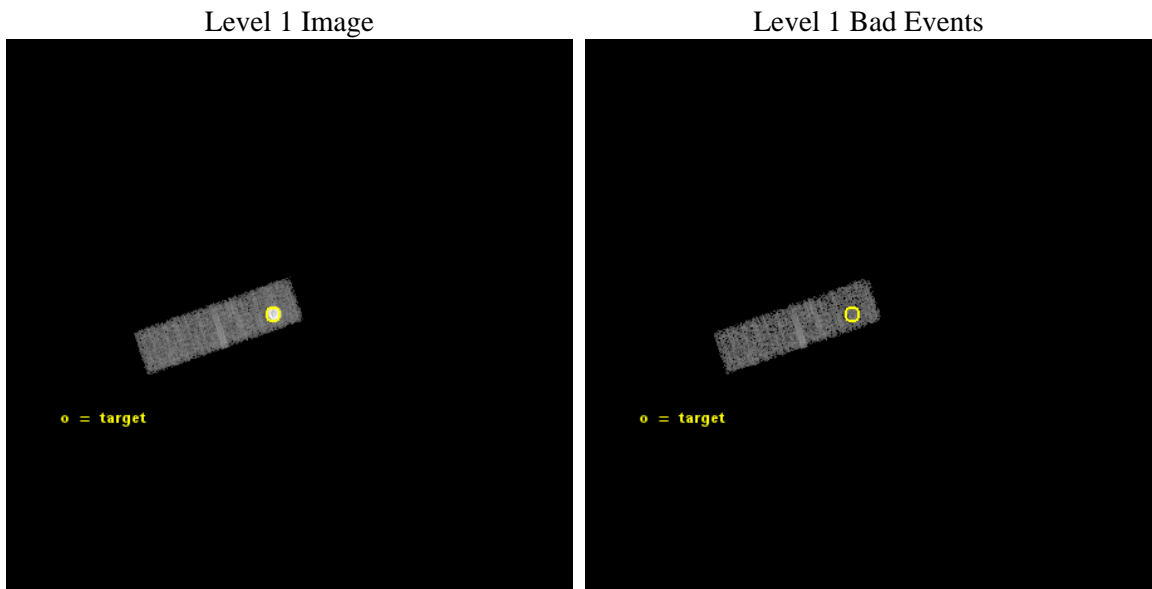
seq_num	590519	Sequence number
obs_id	15466	Observation id
title	AO-14 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 I3,-120,-0.5,0.5,0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.965759739308	Nominal RA [deg]
dec_nom	-72.040839807099	Nominal Dec [deg]
roll_nom	251.3708776997	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20061.528578699	Sum of GTIs [s]
livetime	19082.591628173	Livetime [s]
ontime3	20061.528578699	Sum of GTIs [s]
l2events	52549	Number of level 2 events



2 OBI

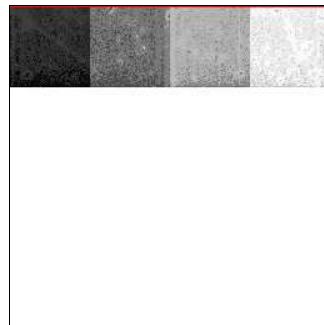
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20061.528578699	Sum of GTIs [s]
caldbver	4.6.4	 	ontime3	20061.528578699	Sum of GTIs [s]
date	2014-12-01T06:58:03	Date and time of file creation	l1events	80908	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

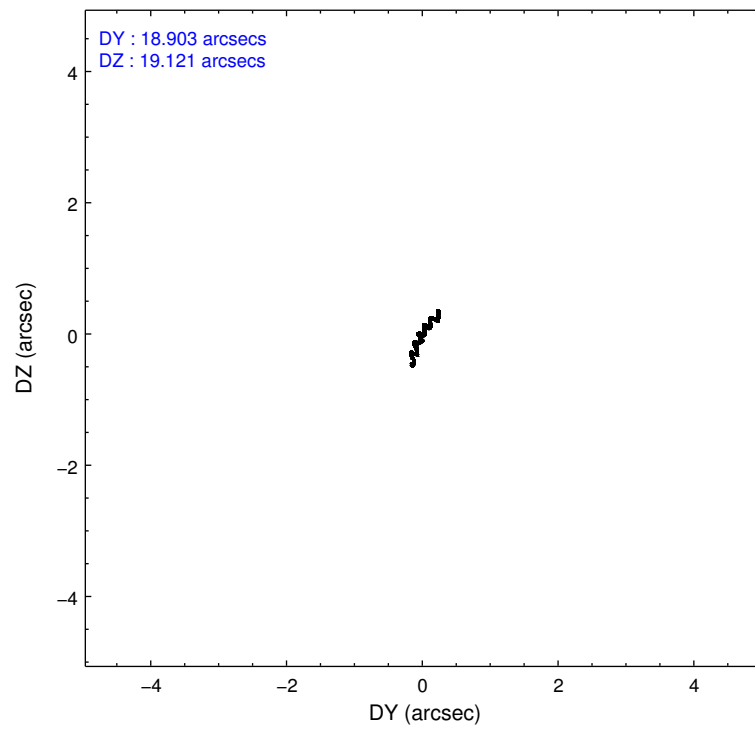
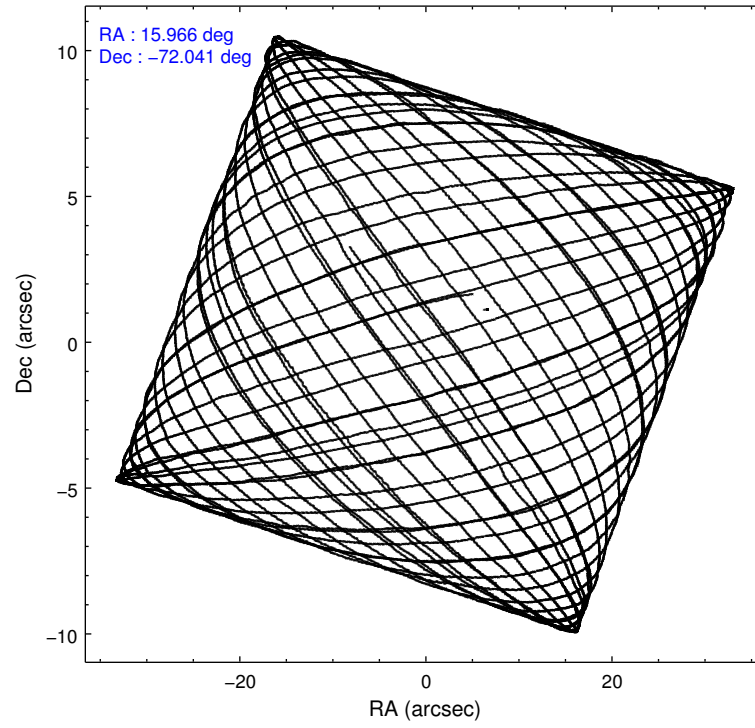
	ccd 3
level 1 events	80908
rejected events	27771
rejected %	34%

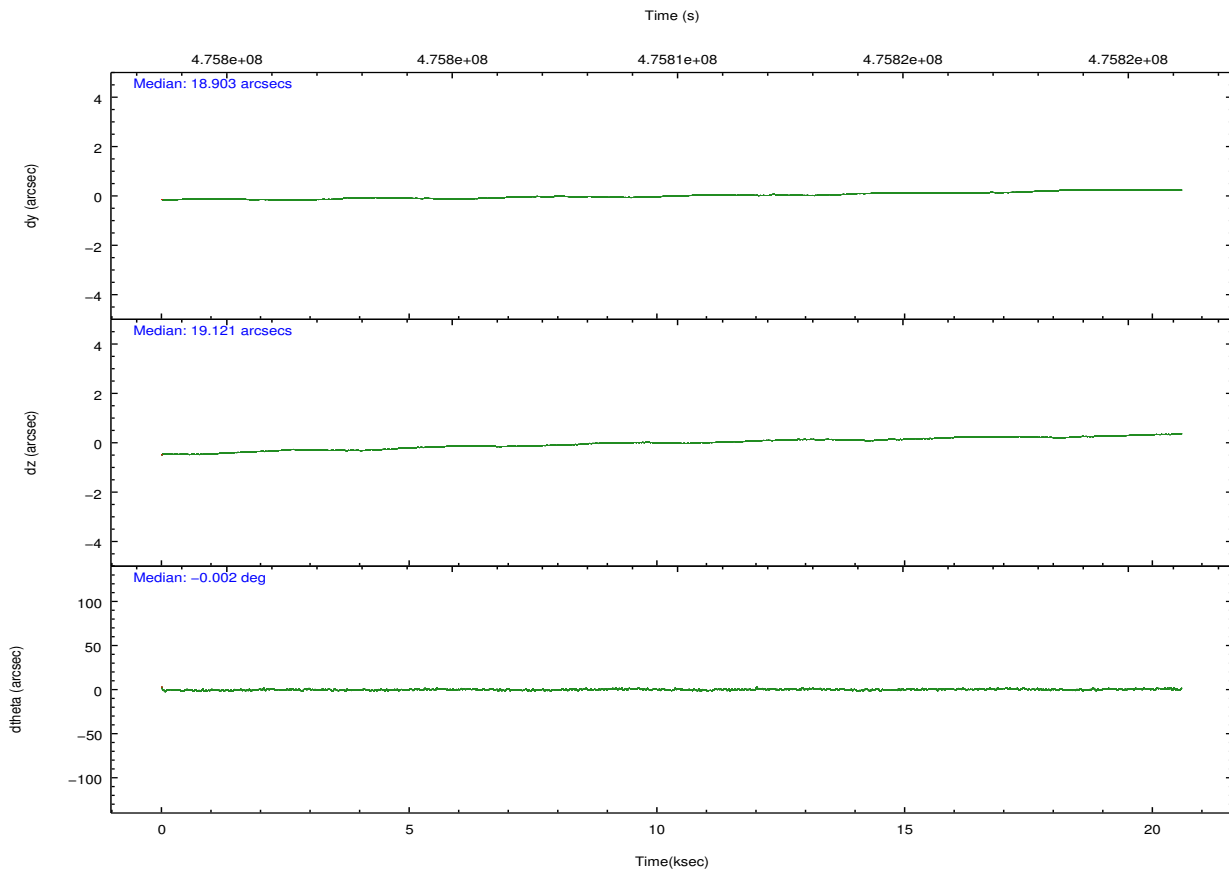
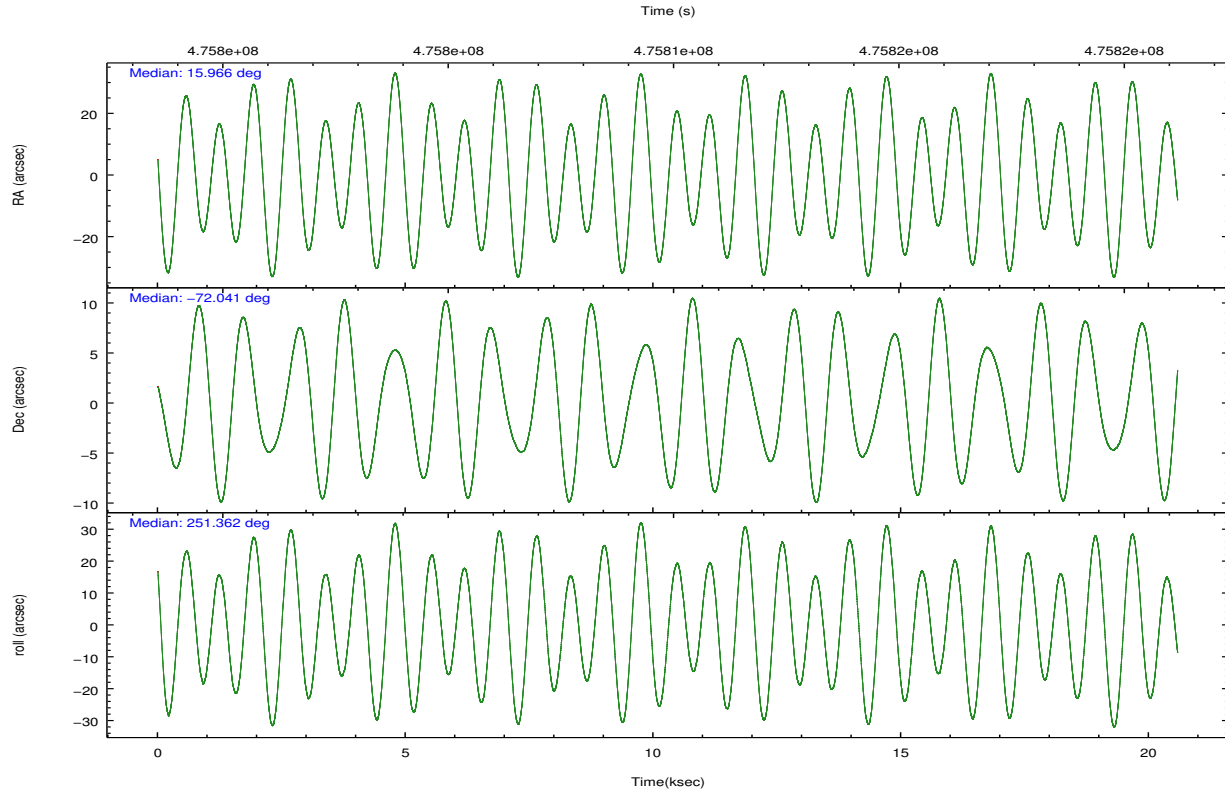
	ccd 3
grade 0 events	46100
	56%
grade 1 events	112
	0%
grade 2 events	3679
	4%
grade 3 events	1289
	1%
grade 4 events	1215
	1%
grade 5 events	1250
	1%
grade 6 events	858
	1%
grade 7 events	26405
	32%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	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	15.947892	15.96575973930753	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.013882	-72.04083980709939	Subarray start row	768	768
[deg] Pointing Roll	251.145202	251.3708776997024	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	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	475800177.184000	475799398.74647			
Observation start date	2013-01-28T22:41:50	2013-01-28T22:29:58			
[s] Observation end time (MET)	475820177.184000	475821048.79764			
Observation end date	2013-01-29T04:15:10	2013-01-29T04:30:48			
Read mode	TIMED	TIMED			

2.3 Aspect





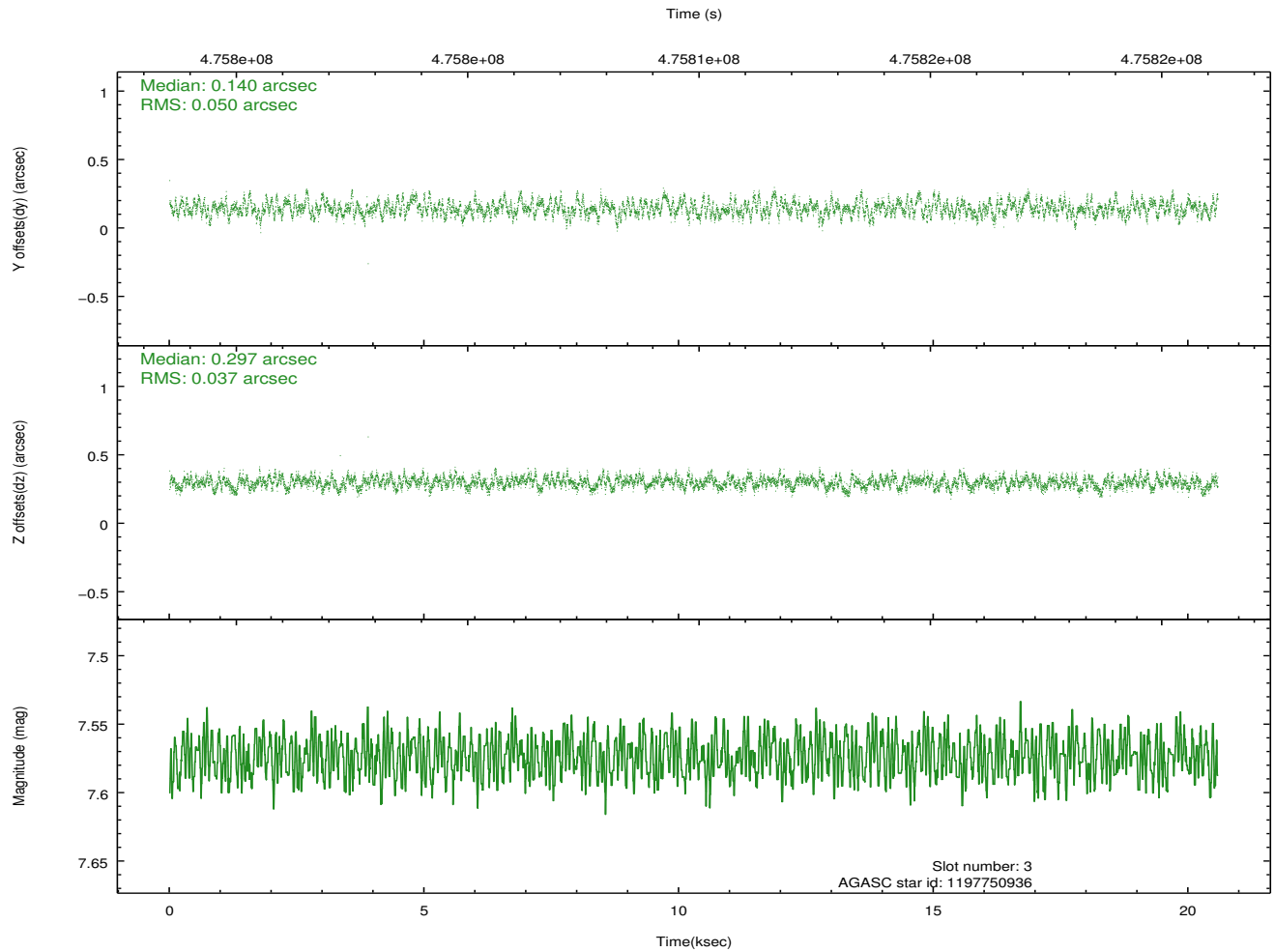
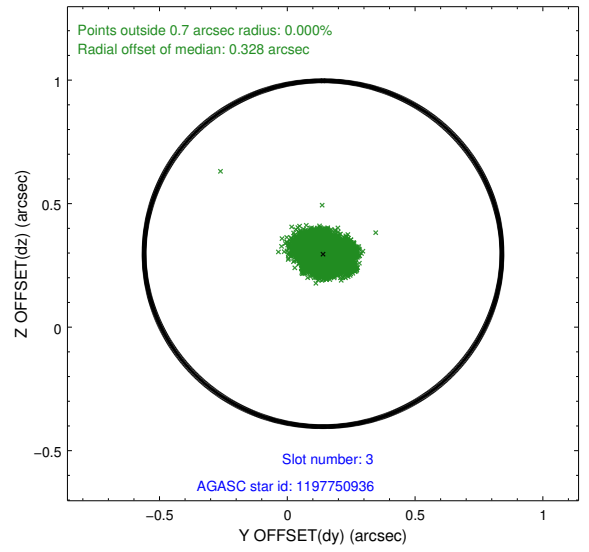
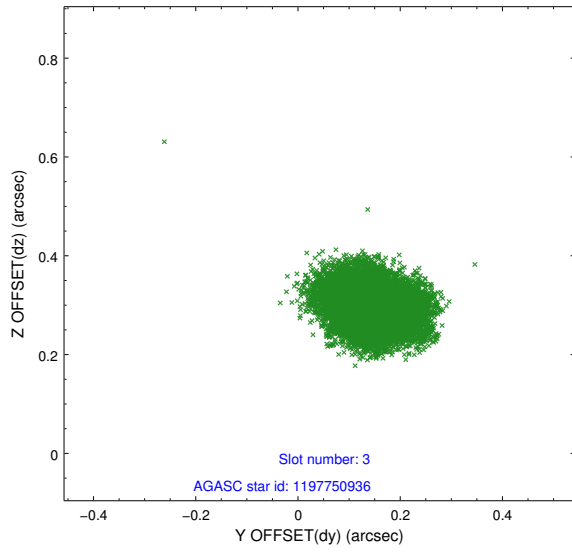
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.09	5021	-0.001	0.091	0.010	0.016	0.000000	0.000000	920.43	-842.71
1	FID		ACIS-I-2	6.99	5021	-0.113	-0.066	0.008	0.014	0.000000	0.000000	-773.68	-849.39
2	FID		ACIS-I-6	7.08	5021	0.024	0.041	0.010	0.018	0.000000	0.000000	386.02	1698.96
3	GUIDE	used	1197750936	7.57	10041	0.140	0.297	0.066	0.106	15.387940	-71.549550	-1371.86	-1142.50
4	GUIDE	used	1197884712	8.31	10035	-0.055	-0.020	0.070	0.111	16.087398	-72.252690	764.36	422.94
5	GUIDE	used	1197885328	7.25	10040	0.052	-0.060	0.083	0.136	16.283090	-71.733943	-1075.55	33.59
6	GUIDE	used	1198283128	7.71	10040	-0.247	-0.076	0.062	0.097	17.272580	-72.642428	1696.07	2082.96
7	GUIDE	used	1197885104	9.36	10016	0.102	-0.149	0.133	0.205	17.845067	-72.189368	-44.86	2191.36

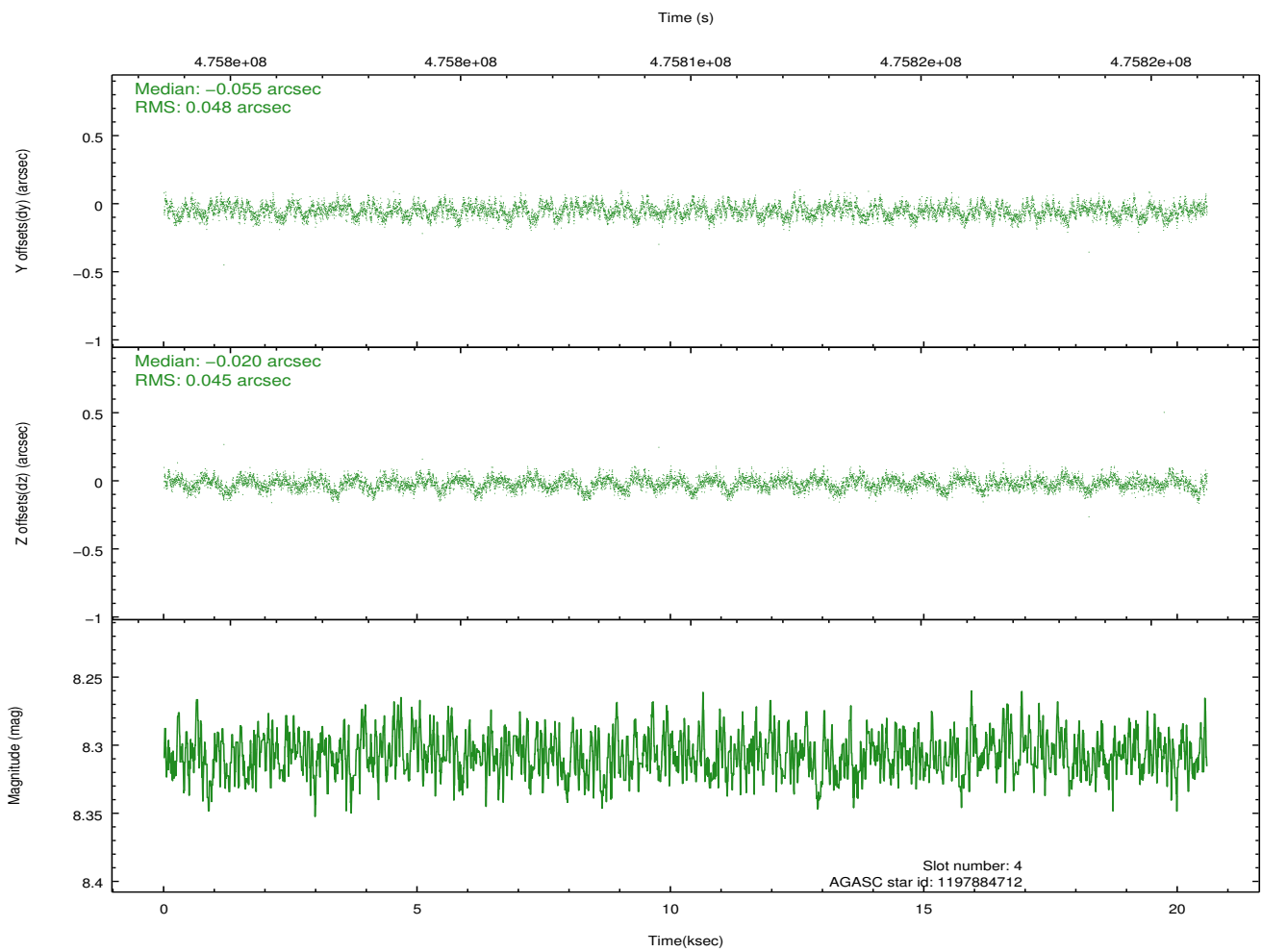
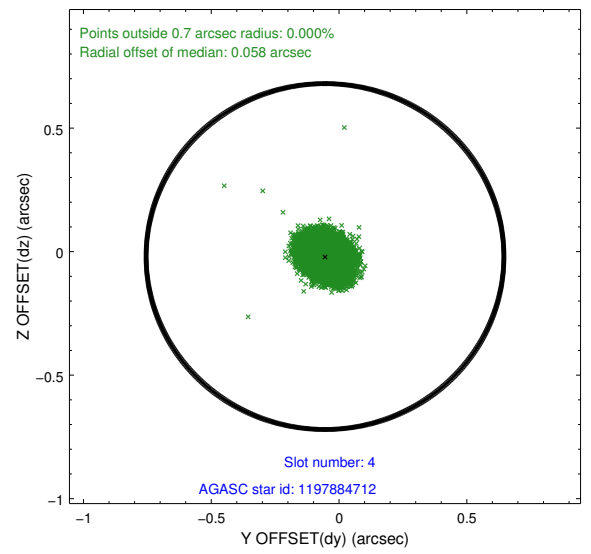
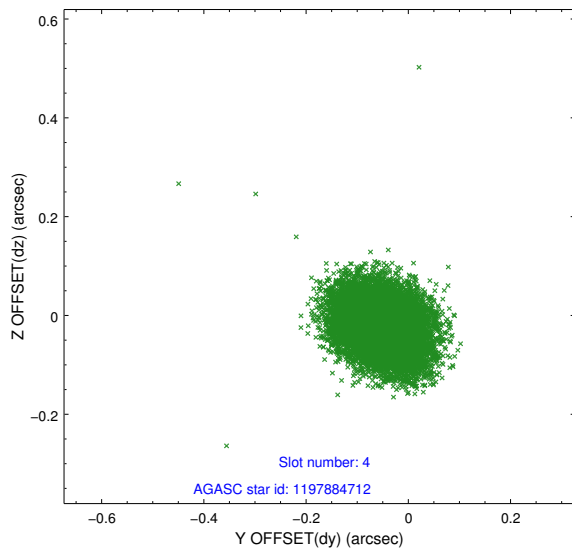
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2.4 Star Slots

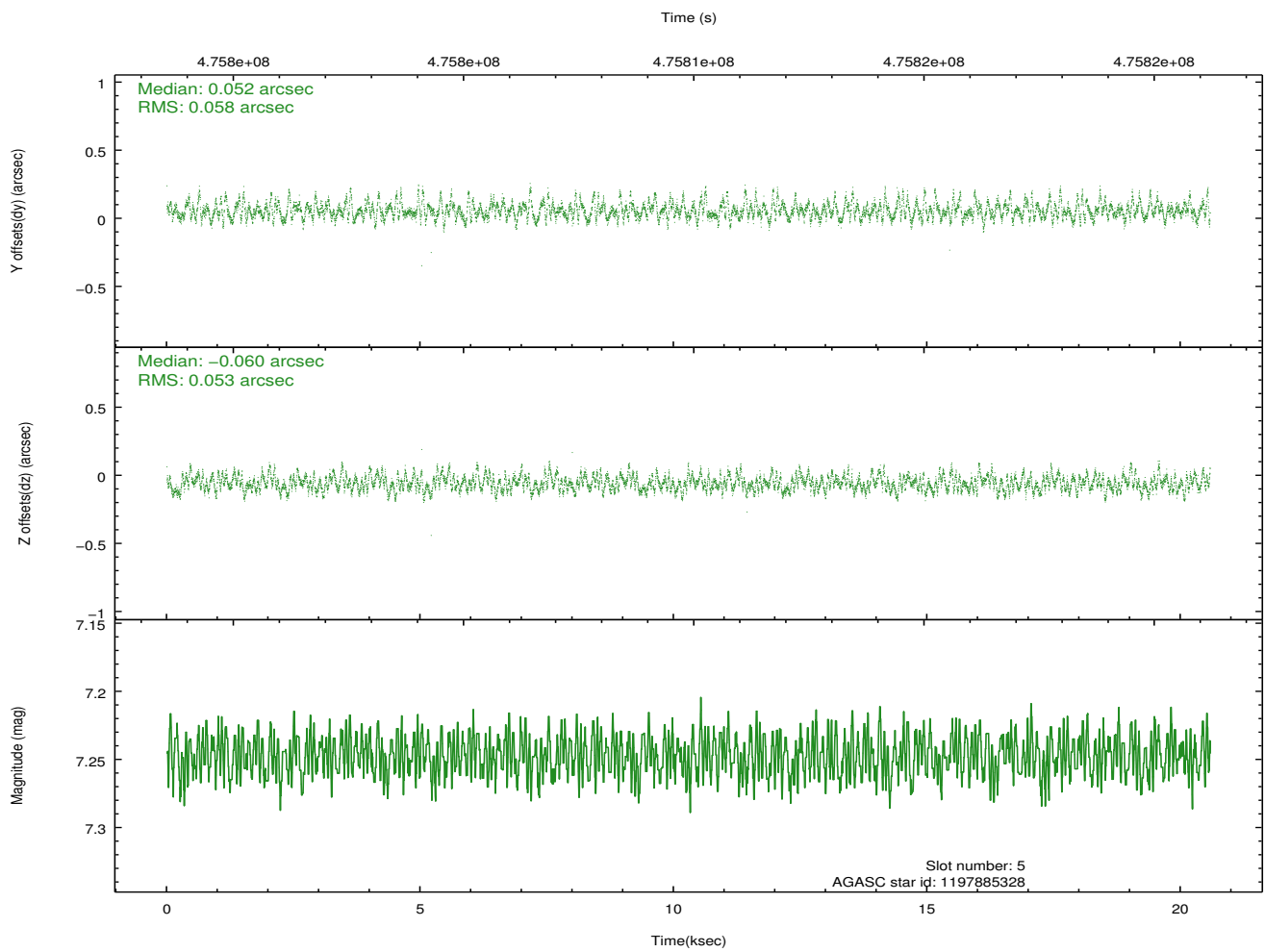
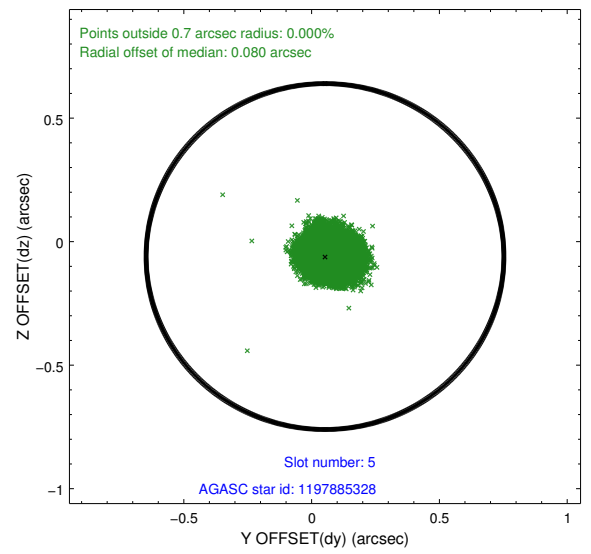
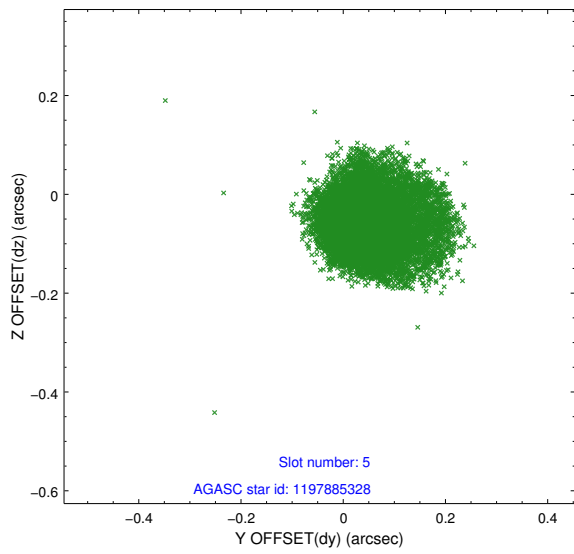
2.4.1 Slot 3



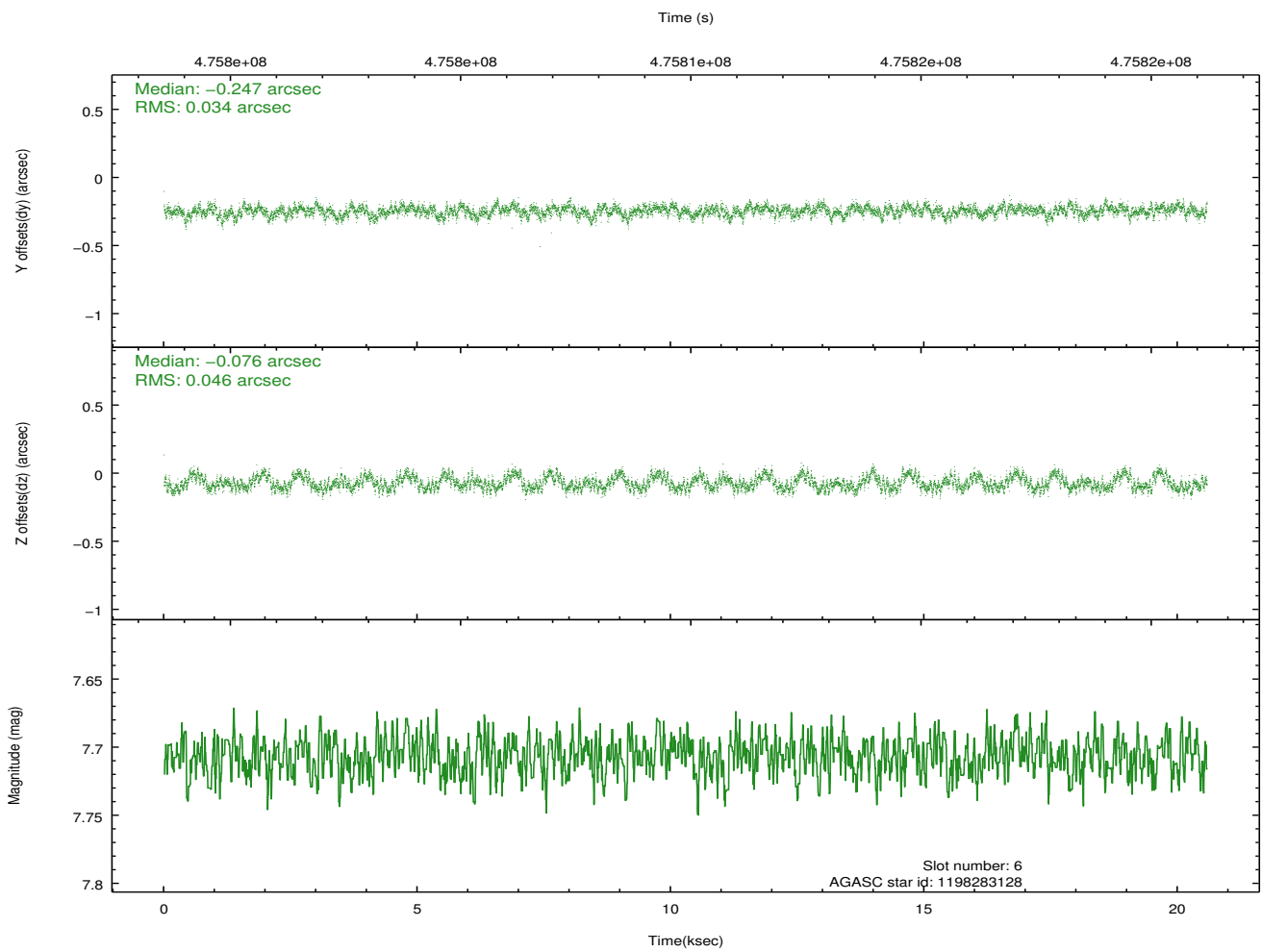
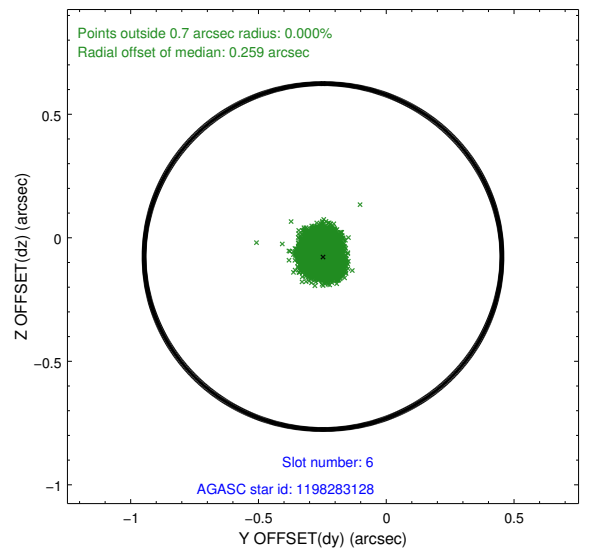
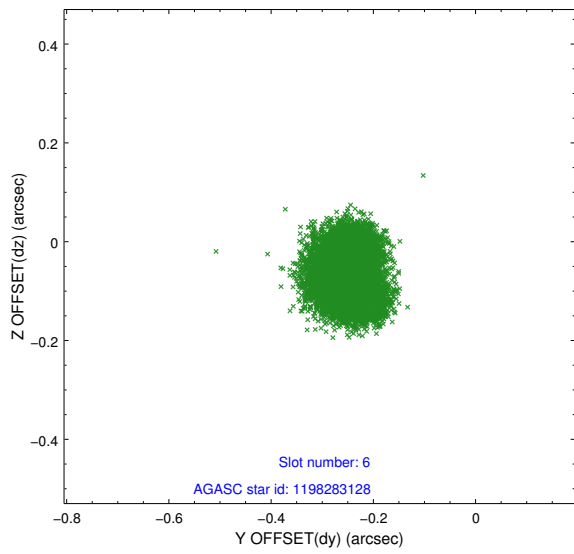
2.4.2 Slot 4



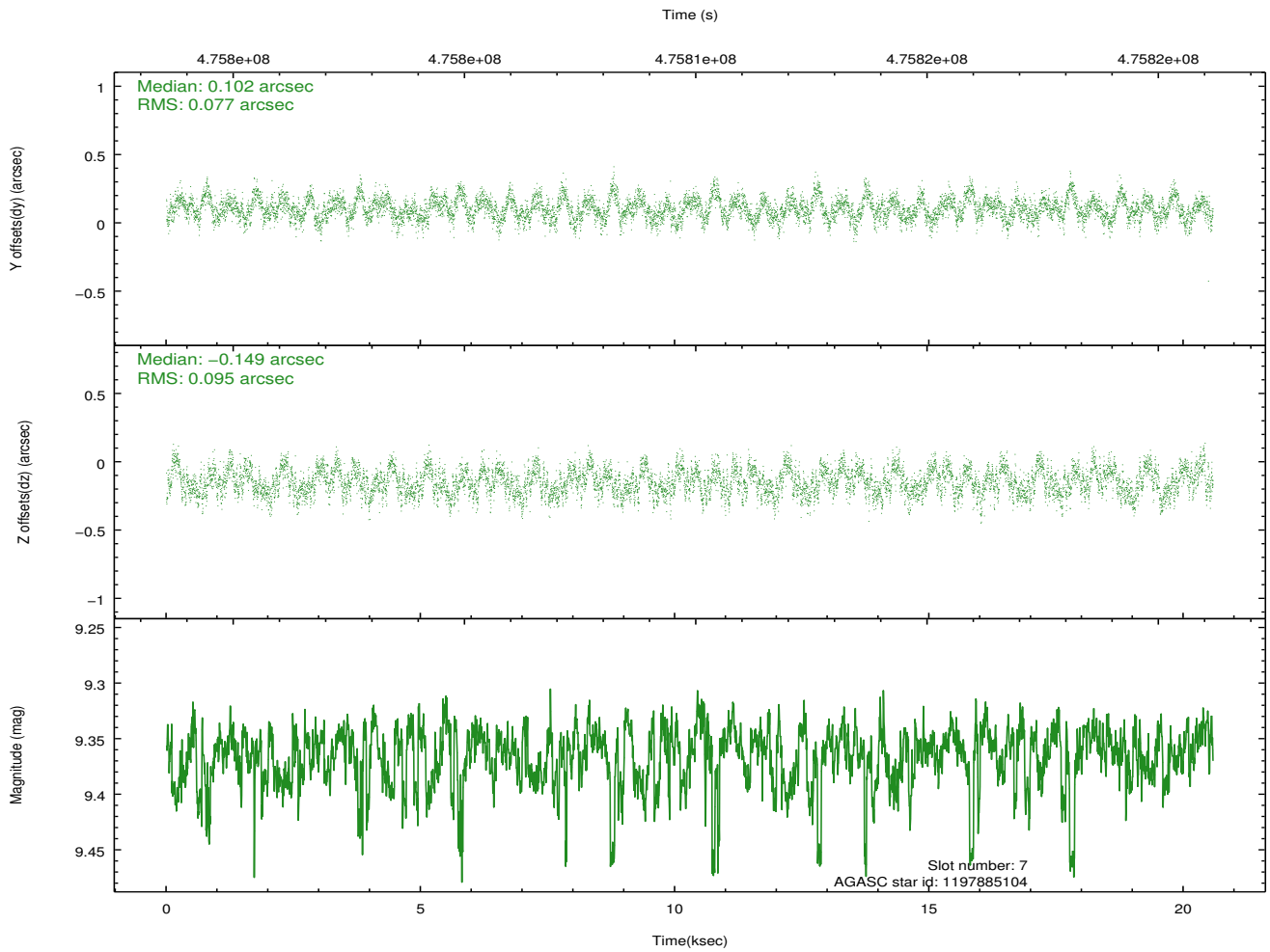
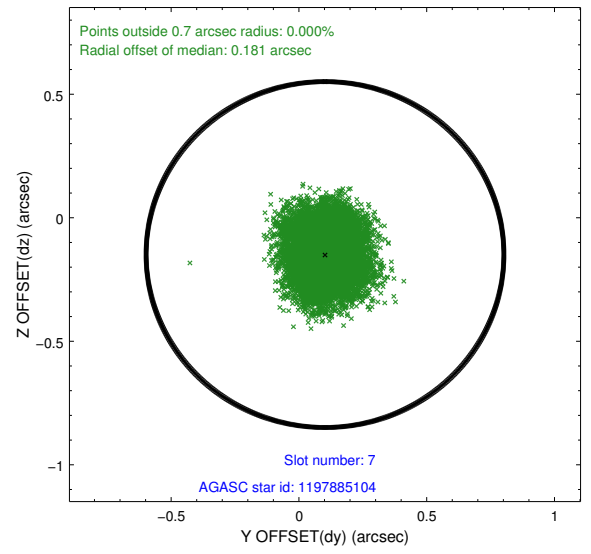
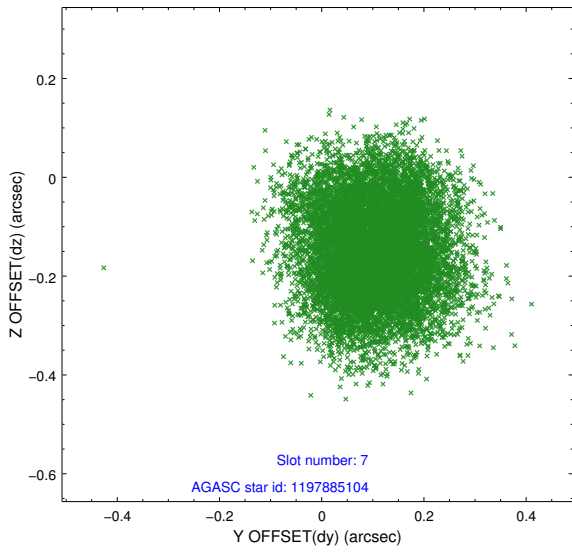
2.4.3 Slot 5



2.4.4 Slot 6

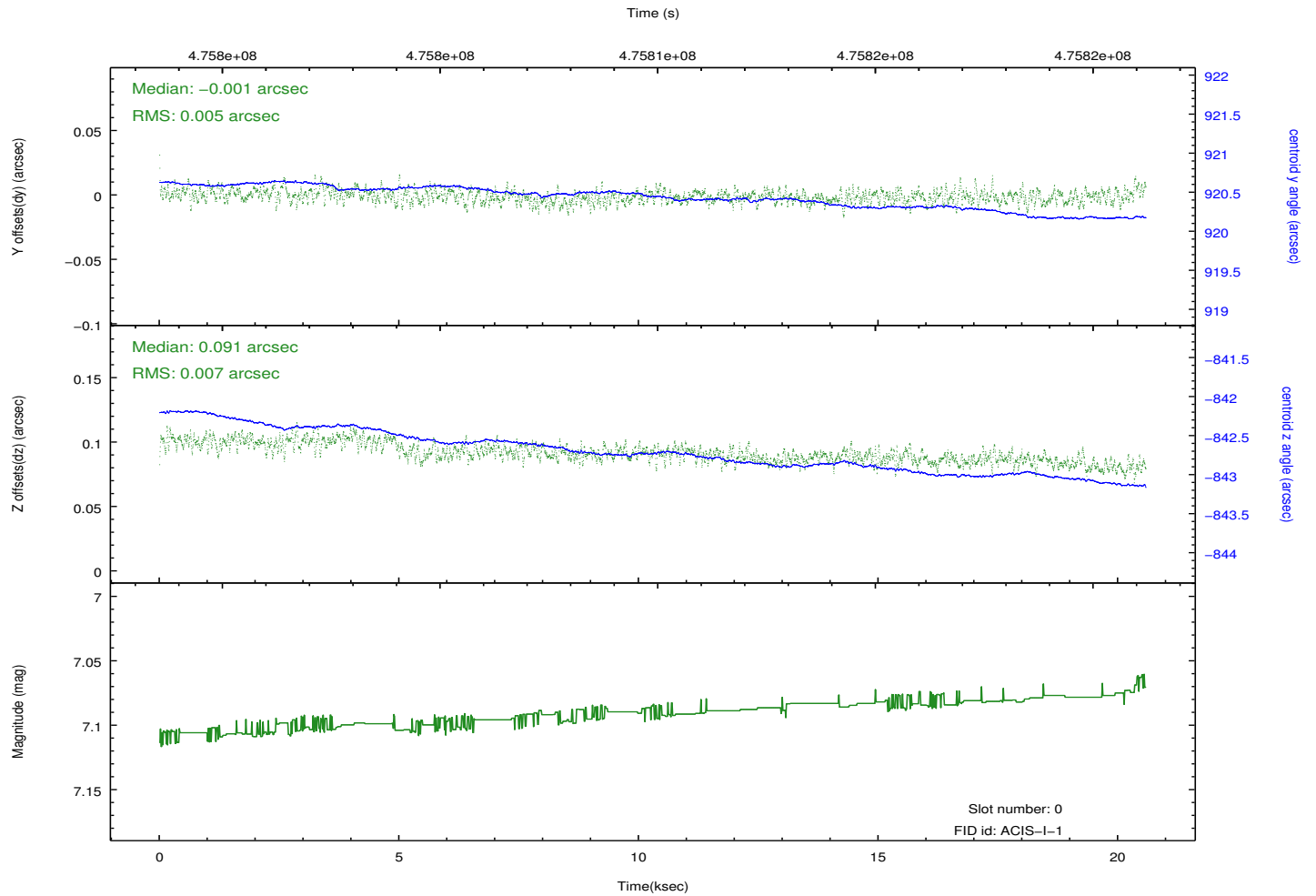
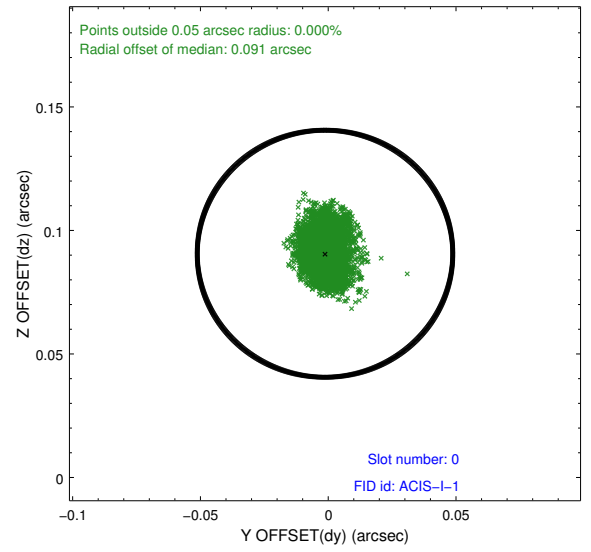
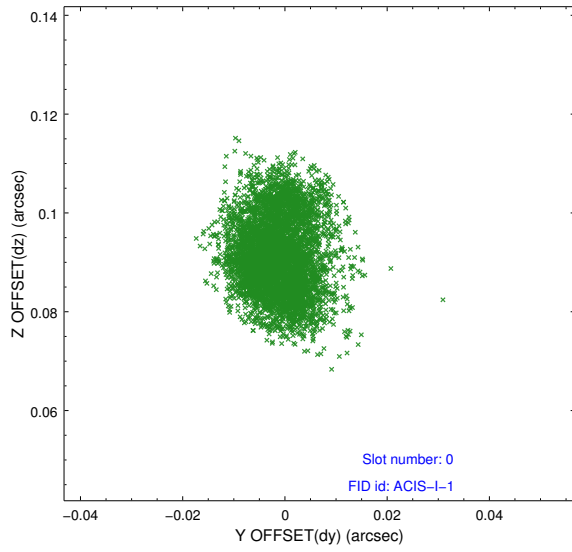


2.4.5 Slot 7

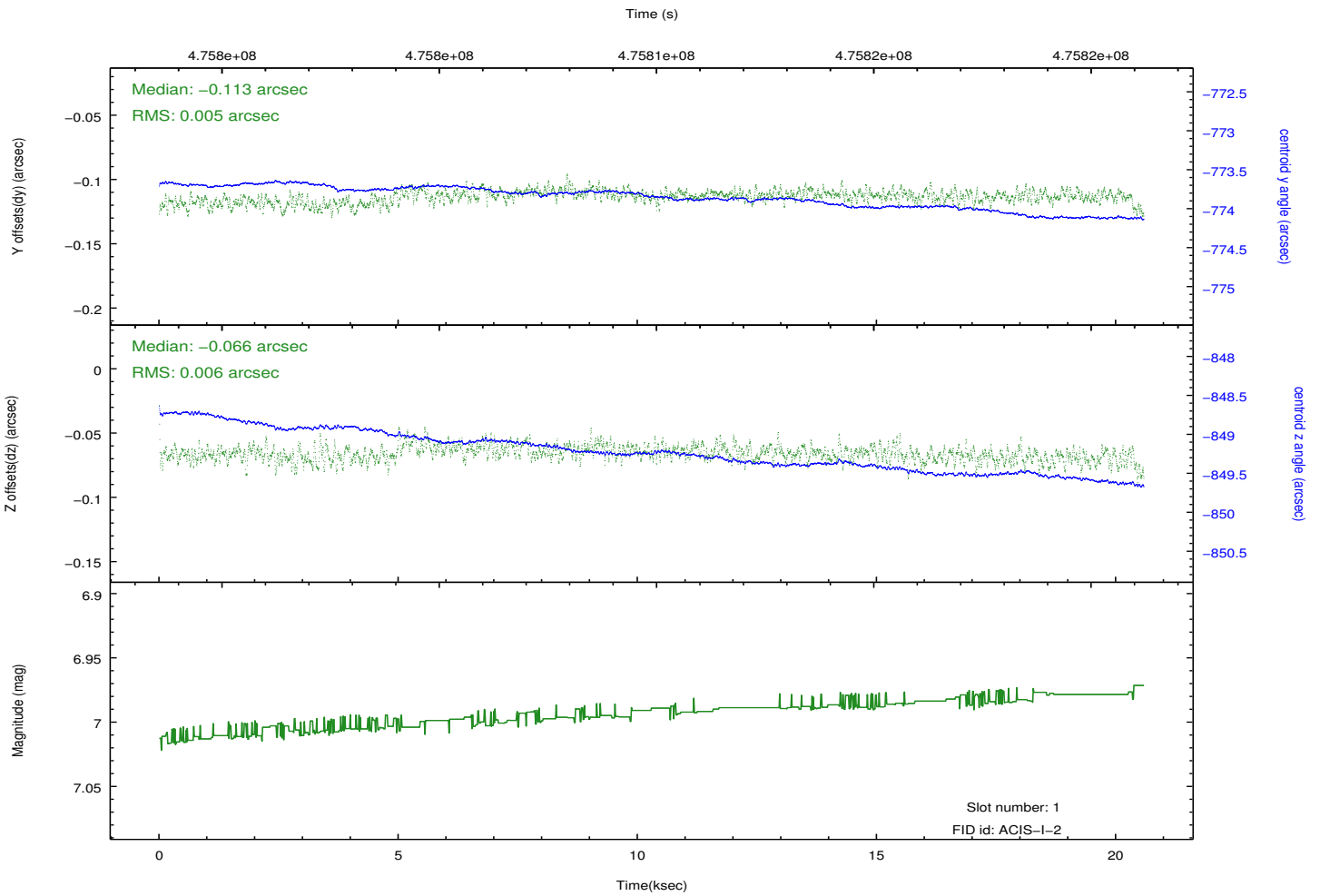
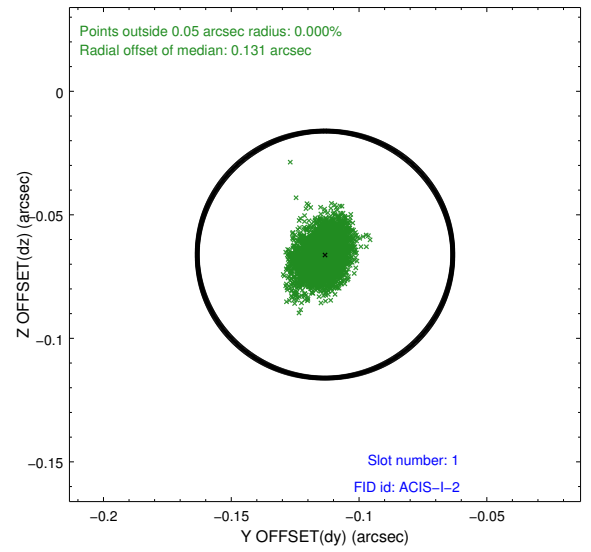
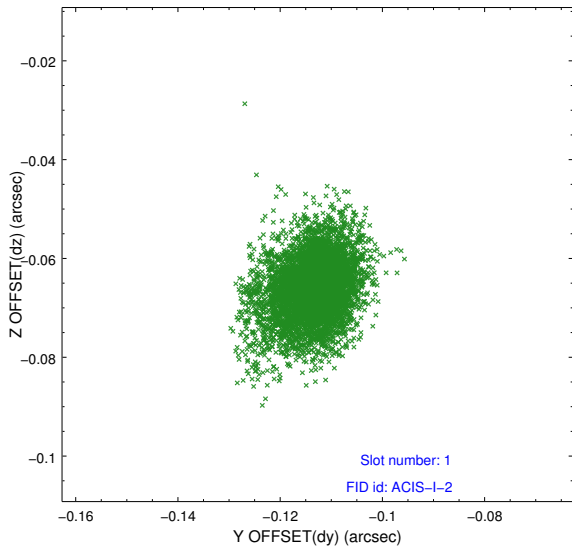


2.5 FID Slots

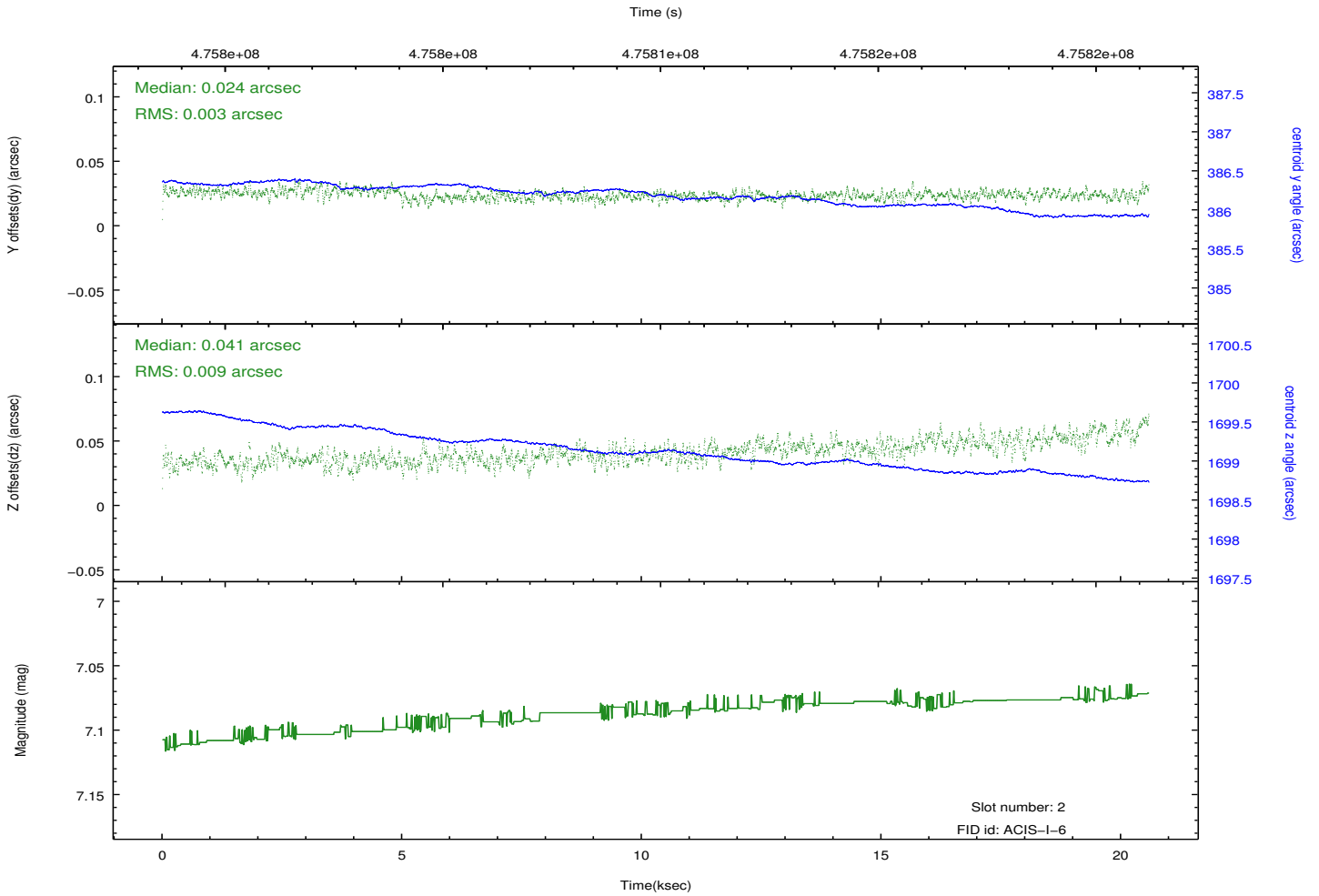
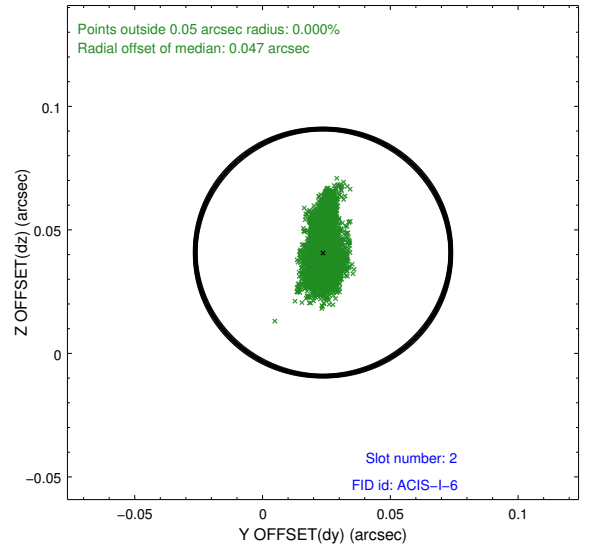
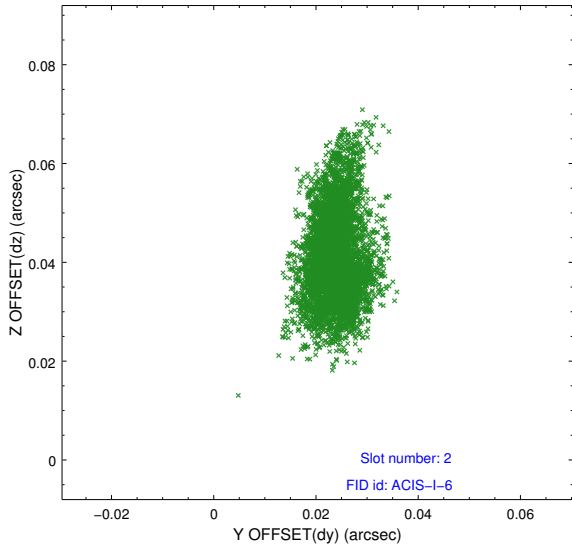
2.5.1 Slot 0



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	20.061528578699

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.