

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15468 - L2 Version 2
Chandra X-Ray Center

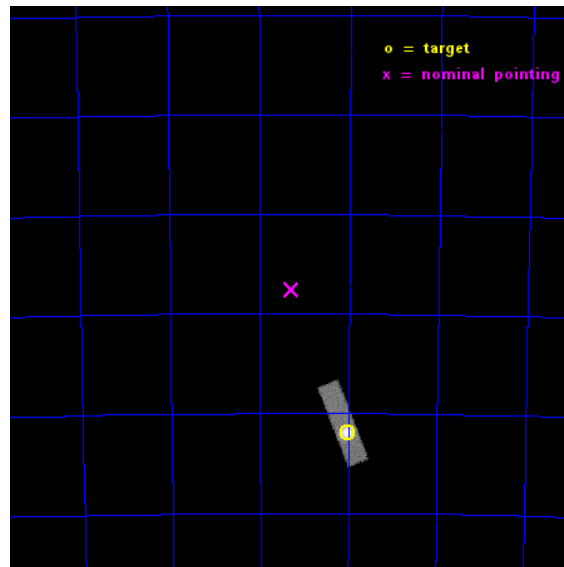
L2 Processing Date : Dec 1 2014

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1 Front

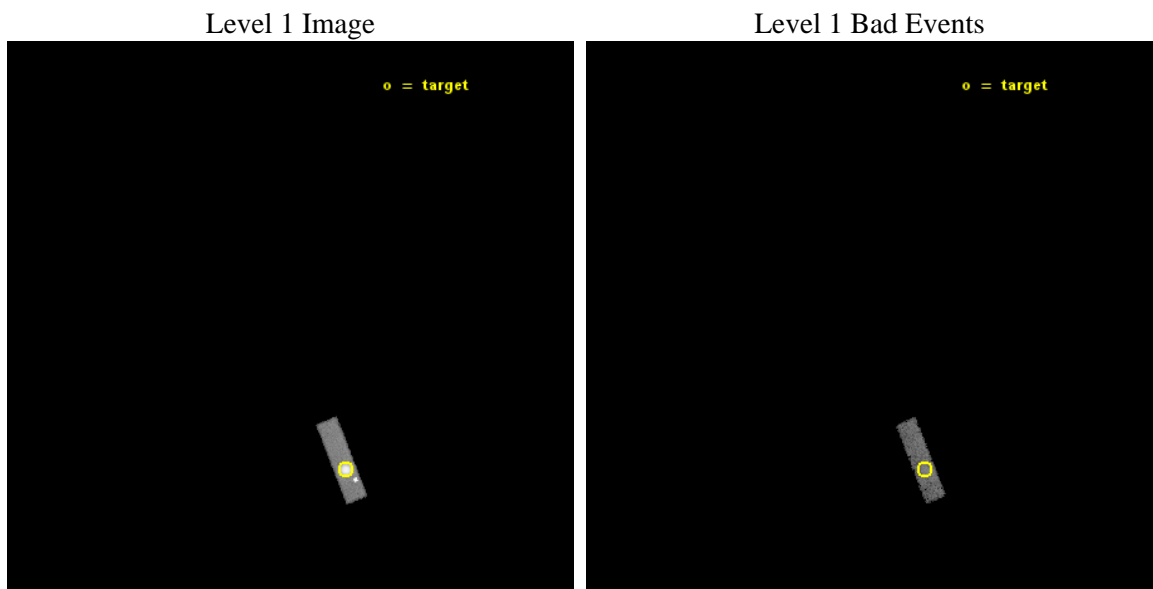
seq_num	590521	Sequence number
obs_id	15468	Observation id
title	AO-14 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 S1,-120,15.50,0,0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.322123118332	Nominal RA [deg]
dec_nom	-71.79254168479	Nominal Dec [deg]
roll_nom	247.91914064857	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10061.302413523	Sum of GTIs [s]
livetime	9570.3437777259	Livetime [s]
ontime5	10061.302413523	Sum of GTIs [s]
l2events	44965	Number of level 2 events



2 OBI

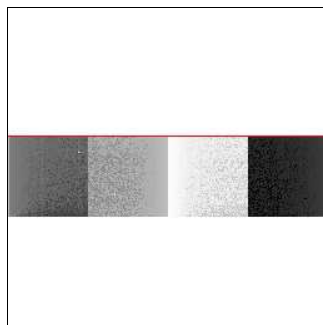
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 5



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10061.302413523	Sum of GTIs [s]
caldsver	4.6.4	 	ontime5	10061.302413523	Sum of GTIs [s]
date	2014-12-01T06:56:55	Date and time of file creation	l1events	65034	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

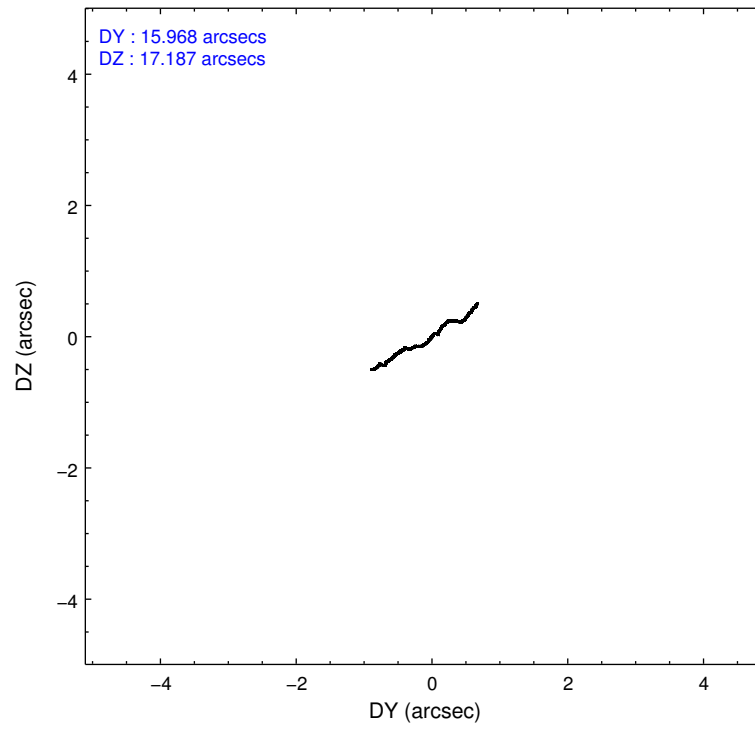
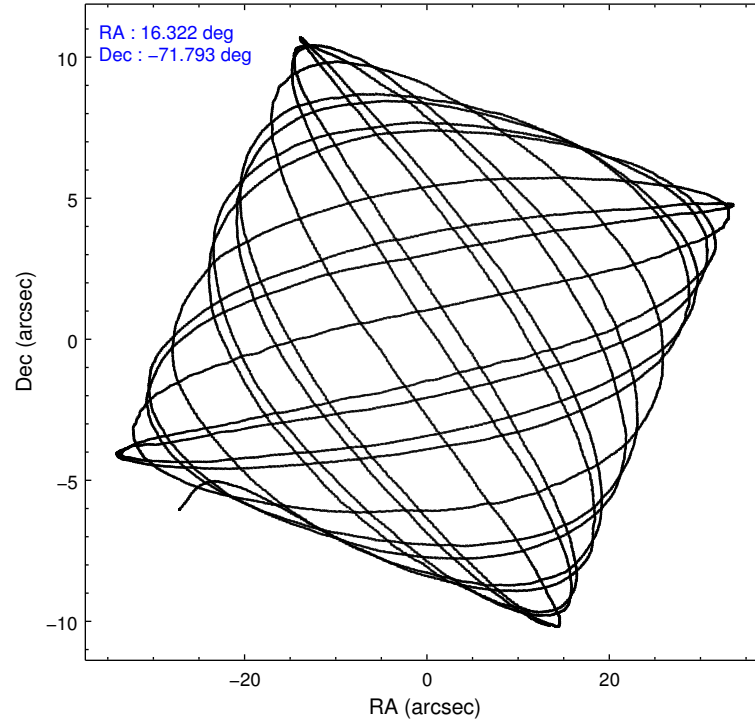
	ccd 5
level 1 events	65034
rejected events	9534
rejected %	14%

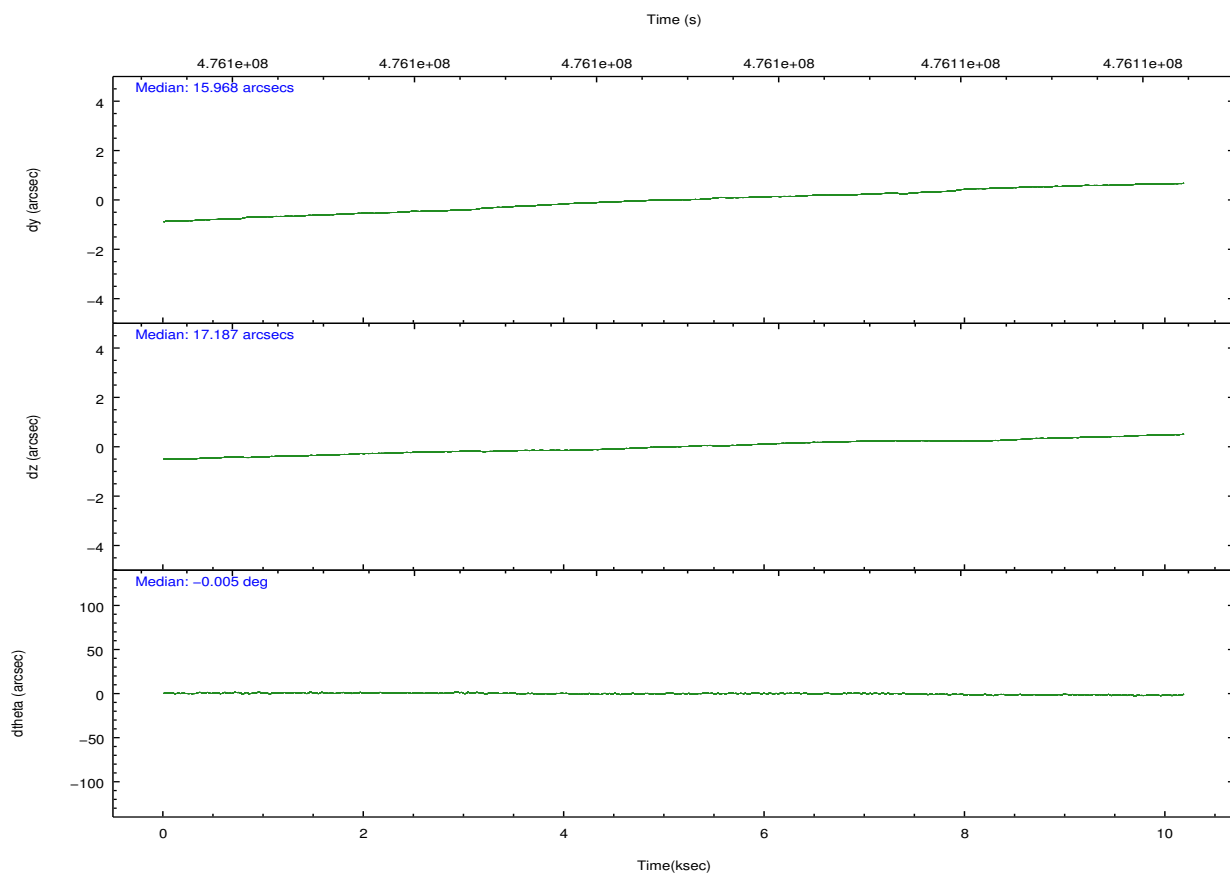
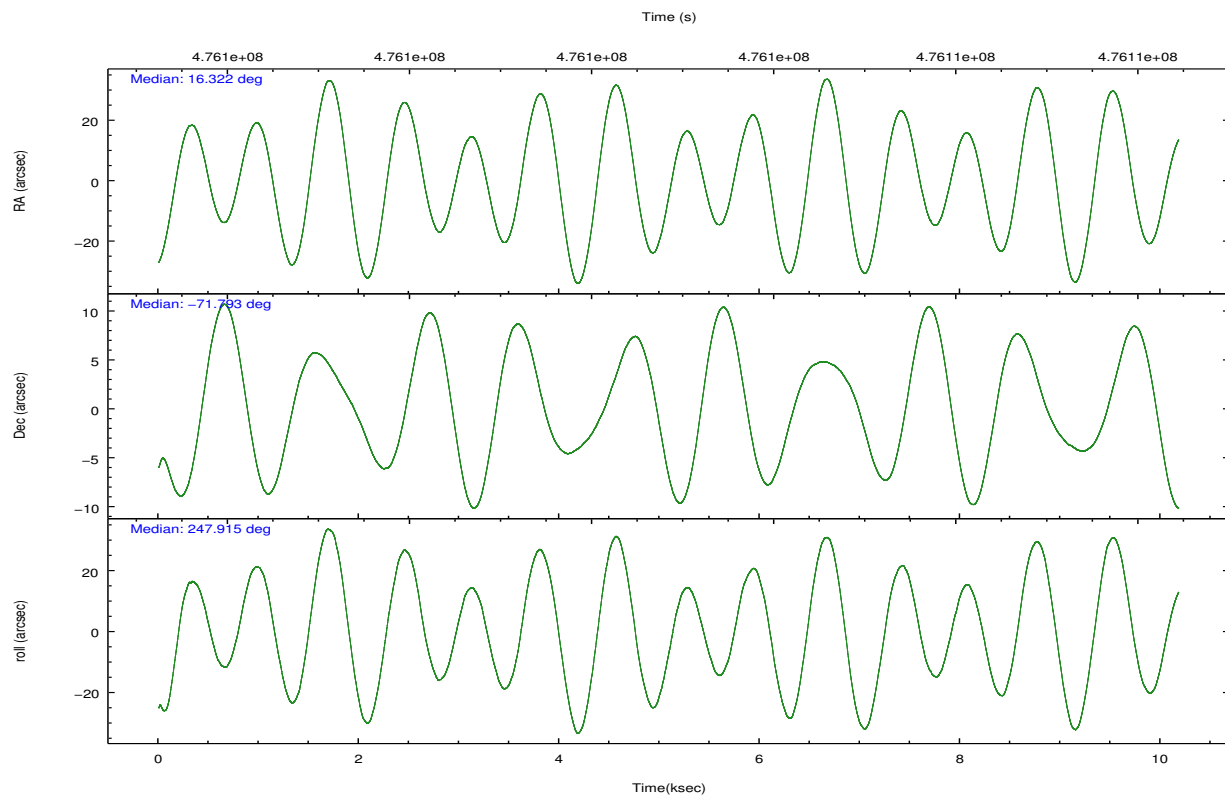
	ccd 5
grade 0 events	26876
	41%
grade 1 events	63
	0%
grade 2 events	12993
	19%
grade 3 events	3957
	6%
grade 4 events	4099
	6%
grade 5 events	1985
	3%
grade 6 events	7585
	11%
grade 7 events	7476
	11%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5	ACIS-5	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	16.308922	16.32212311833196	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-71.765475	-71.79254168479035	Subarray start row	360	360
[deg] Pointing Roll	247.749967	247.9191406485654	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	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	476097949.184000	476097184.32499			
Observation start date	2013-02-01T09:24:42	2013-02-01T09:13:04			
[s] Observation end time (MET)	476107949.184000	476108083.15058			
Observation end date	2013-02-01T12:11:22	2013-02-01T12:14:43			
Read mode	TIMED	TIMED			

2.3 Aspect



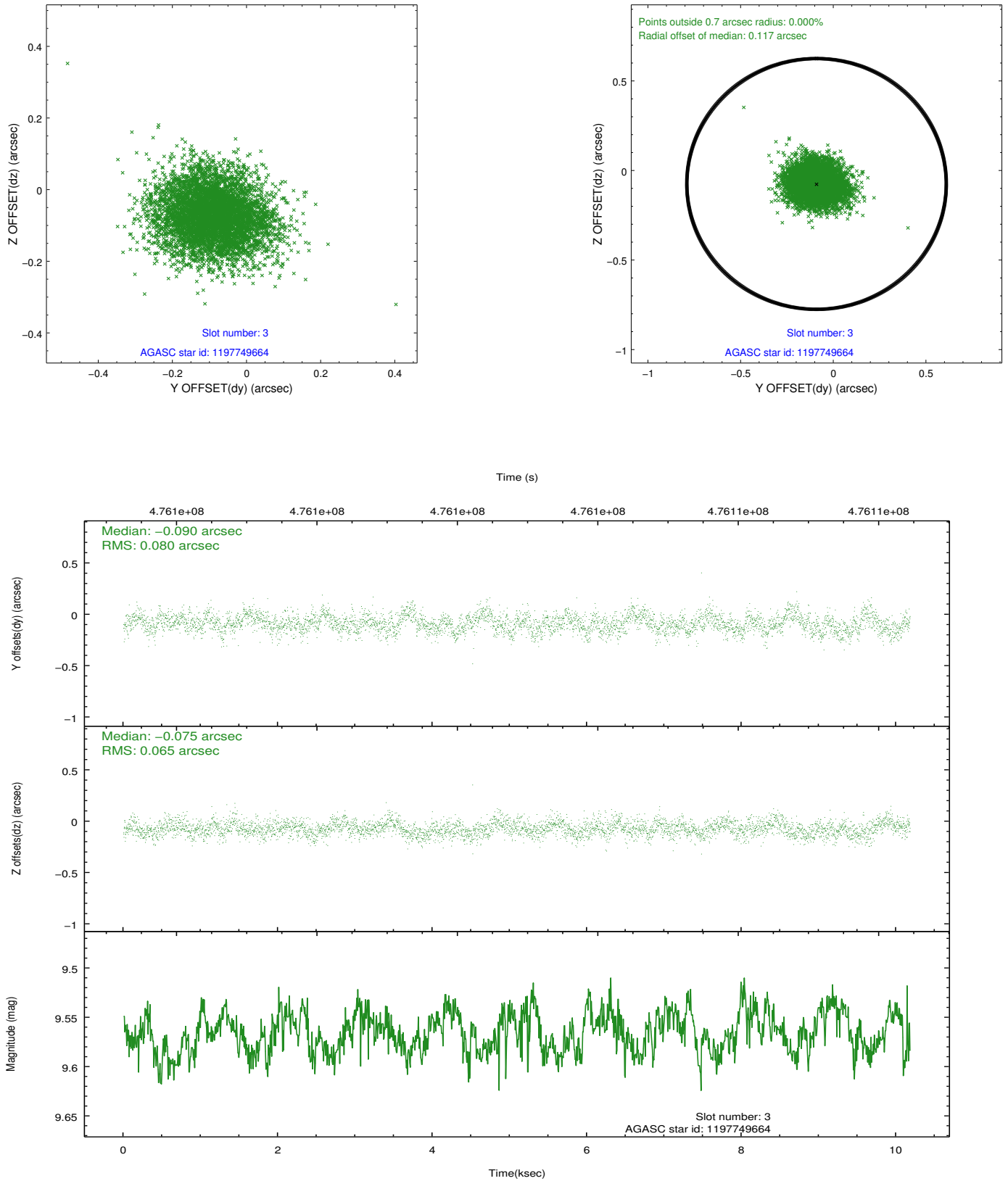


Slot Statistics

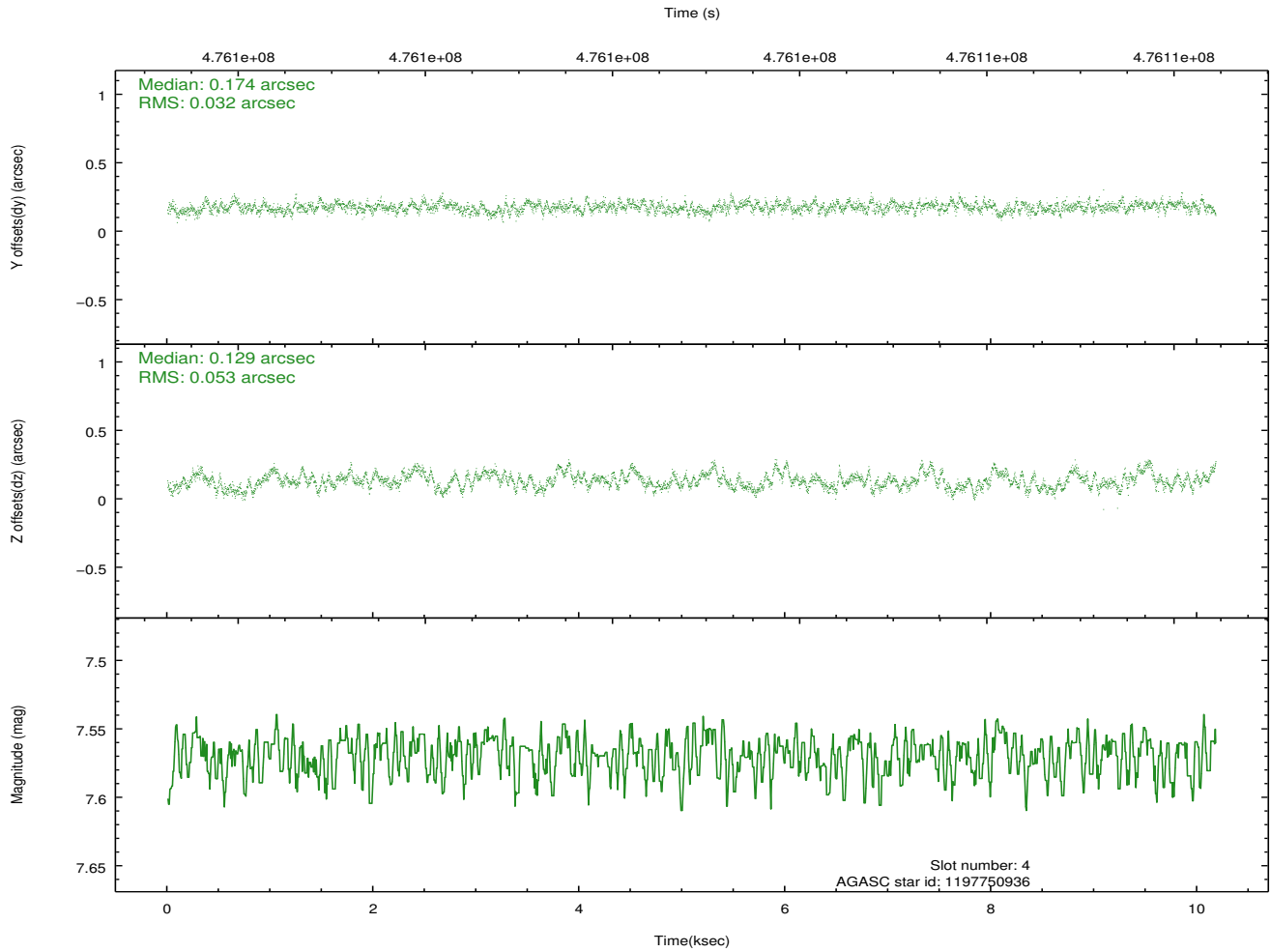
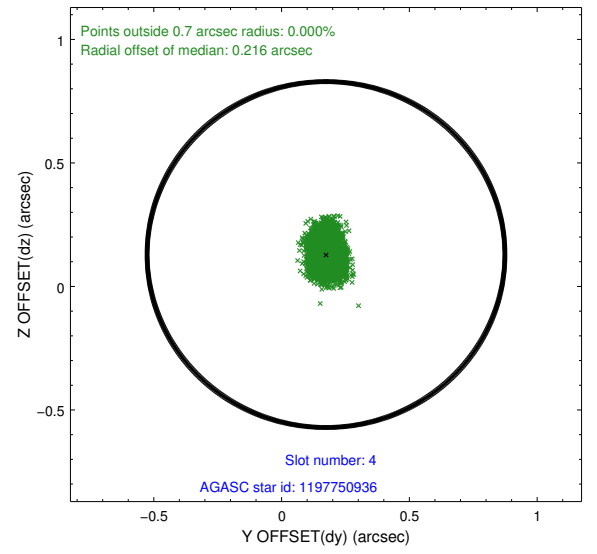
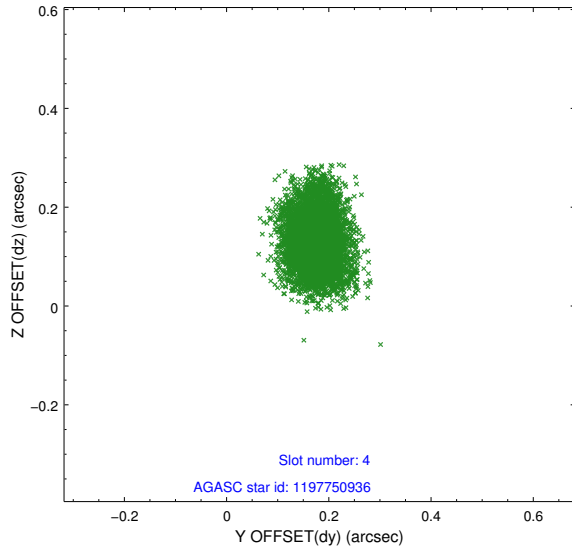
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	2483	0.084	-0.069	0.011	0.023	0.000000	0.000000	927.20	-1734.27
1	FID		ACIS-S-5	7.05	2483	-0.108	0.061	0.013	0.026	0.000000	0.000000	-1821.70	162.88
2	FID		ACIS-S-6	7.15	2483	0.002	0.022	0.019	0.038	0.000000	0.000000	392.12	807.38
3	GUIDE	used	1197749664	9.57	4956	-0.090	-0.075	0.110	0.178	15.809015	-72.366369	2210.72	315.72
4	GUIDE	used	1197750936	7.57	4964	0.174	0.129	0.065	0.109	15.387940	-71.549550	-313.24	-1261.86
5	GUIDE	used	1197884536	8.50	4965	-0.075	0.076	0.070	0.111	17.160729	-71.835289	-122.99	982.37
6	GUIDE	used	1197884712	8.30	4966	0.013	-0.052	0.080	0.122	16.087398	-72.252690	1716.17	439.77
7	GUIDE	used	1197885104	9.33	4929	-0.024	-0.088	0.124	0.207	17.845067	-72.189368	793.40	2151.40

2.4 Star Slots

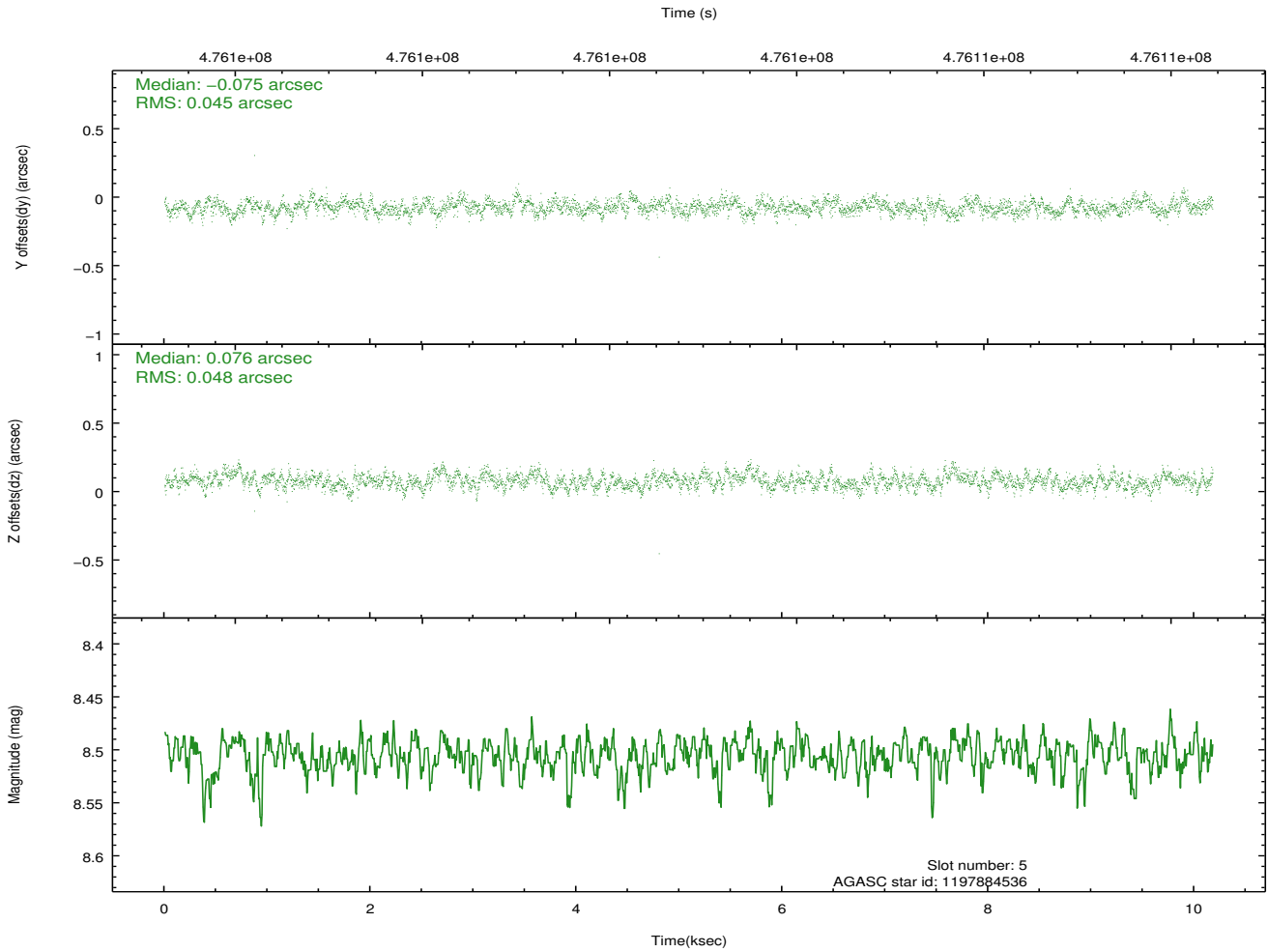
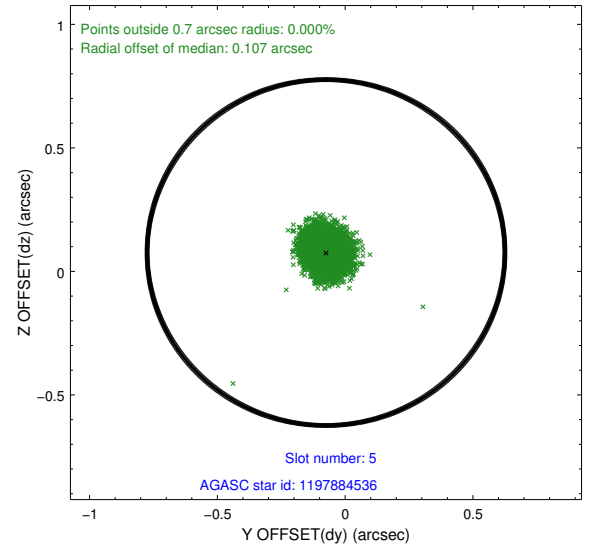
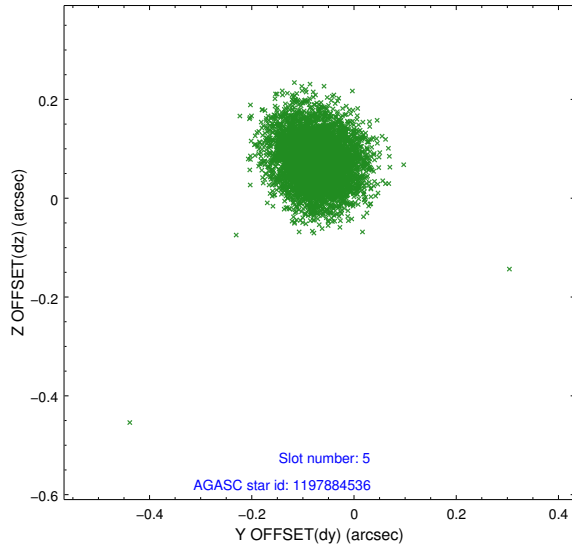
2.4.1 Slot 3



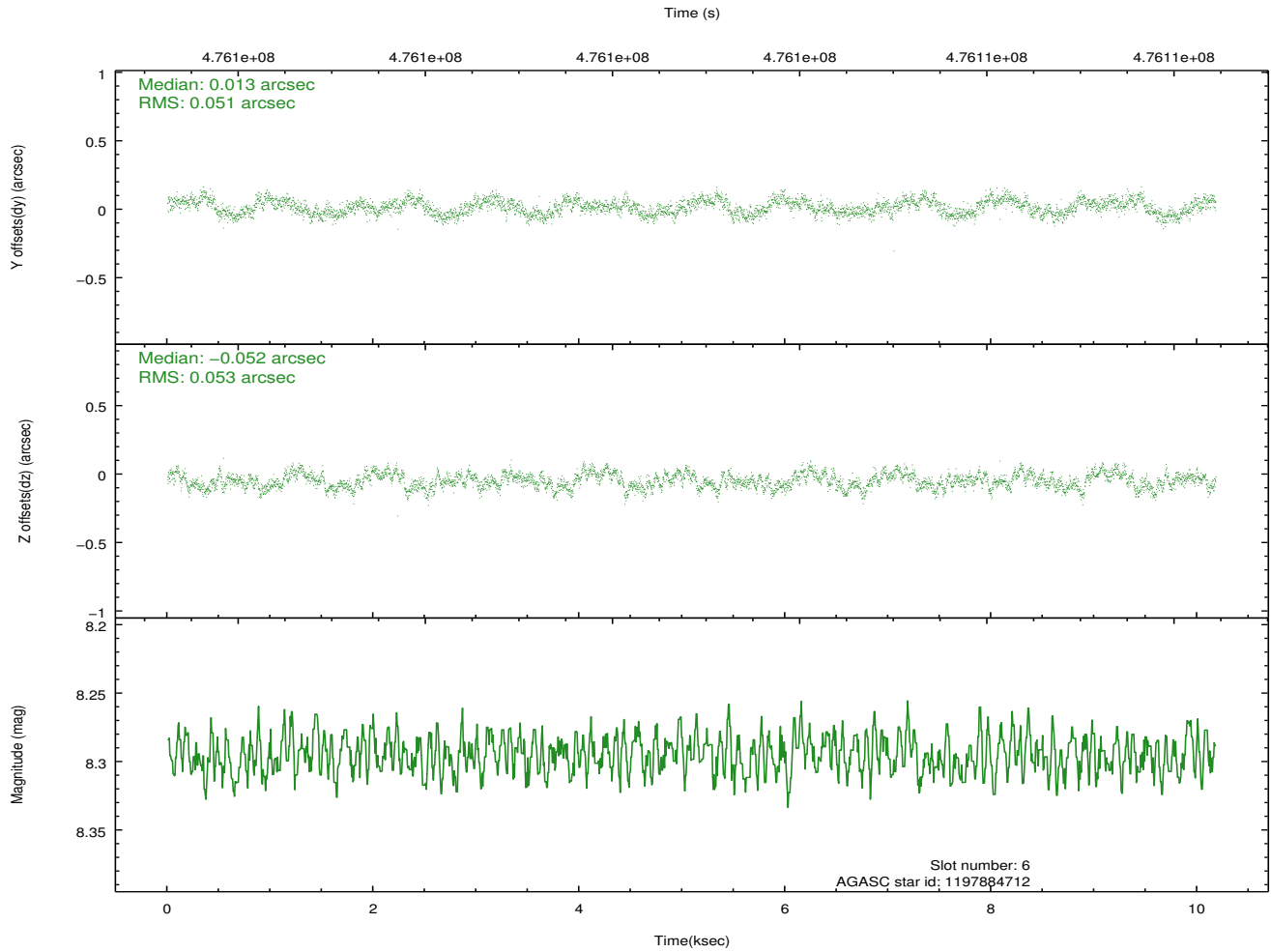
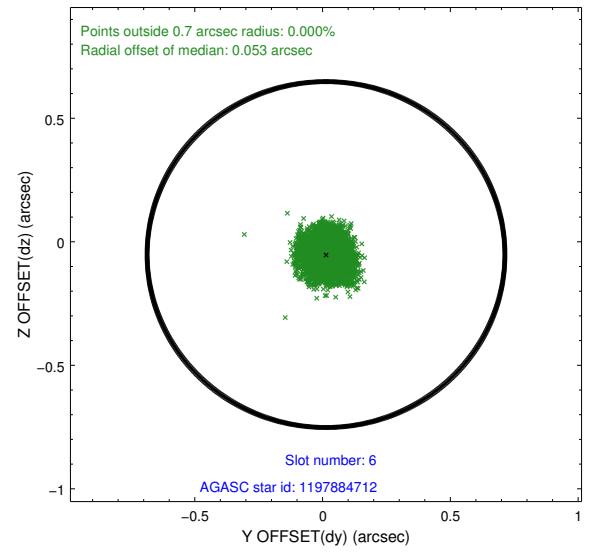
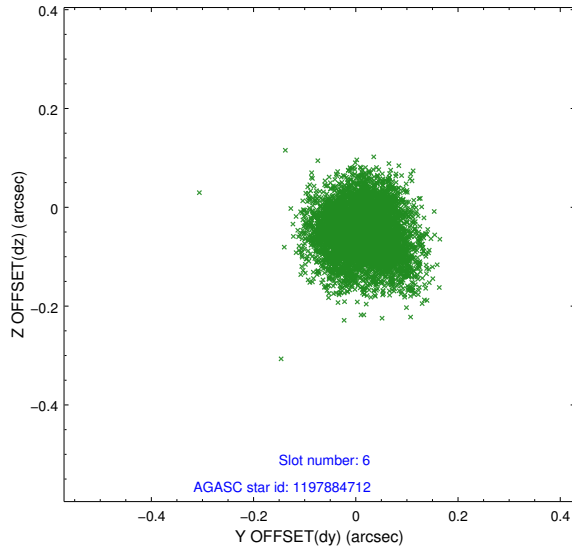
2.4.2 Slot 4



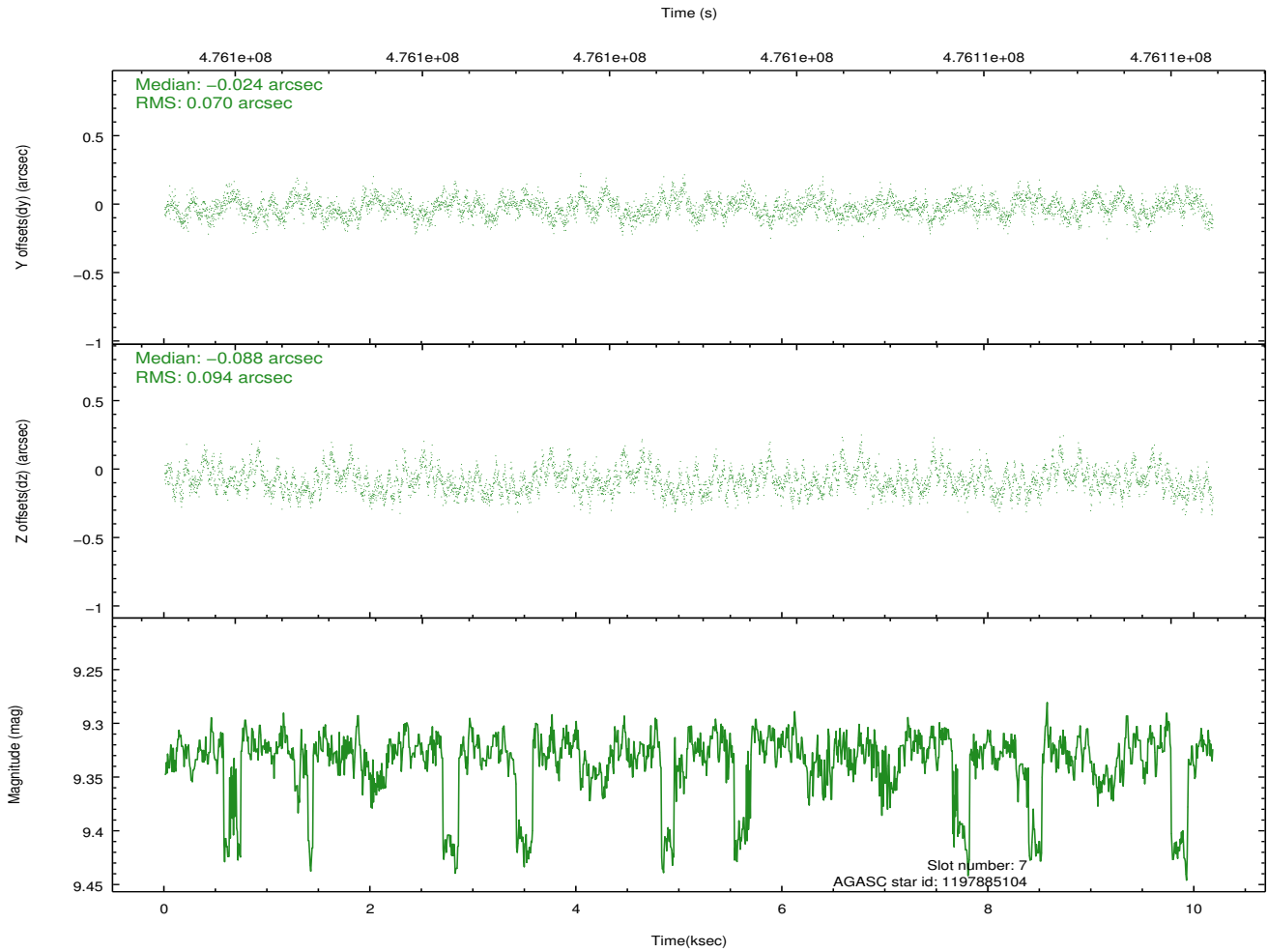
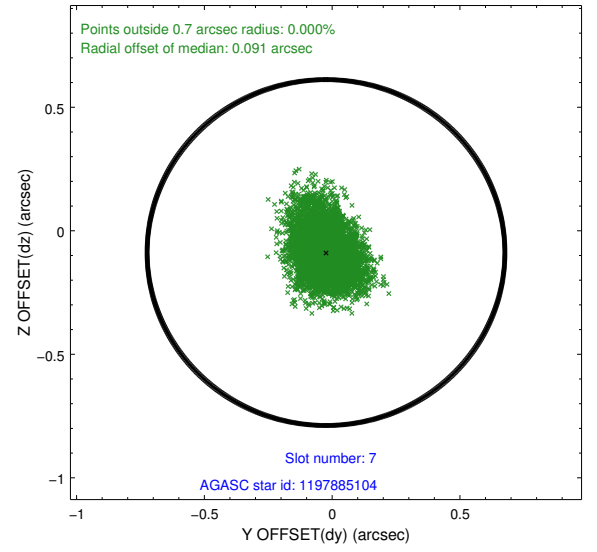
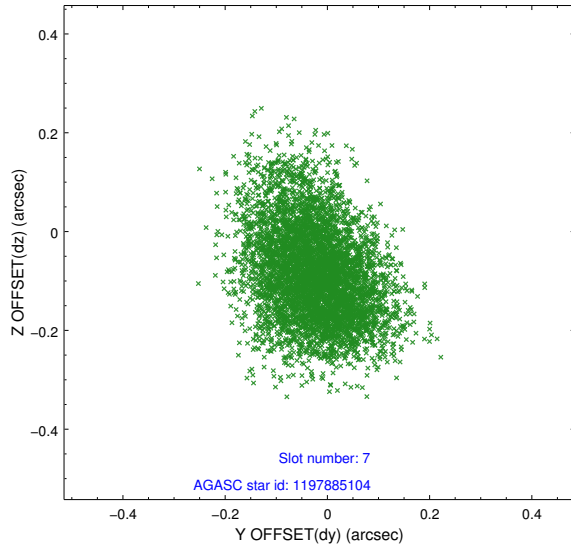
2.4.3 Slot 5



2.4.4 Slot 6

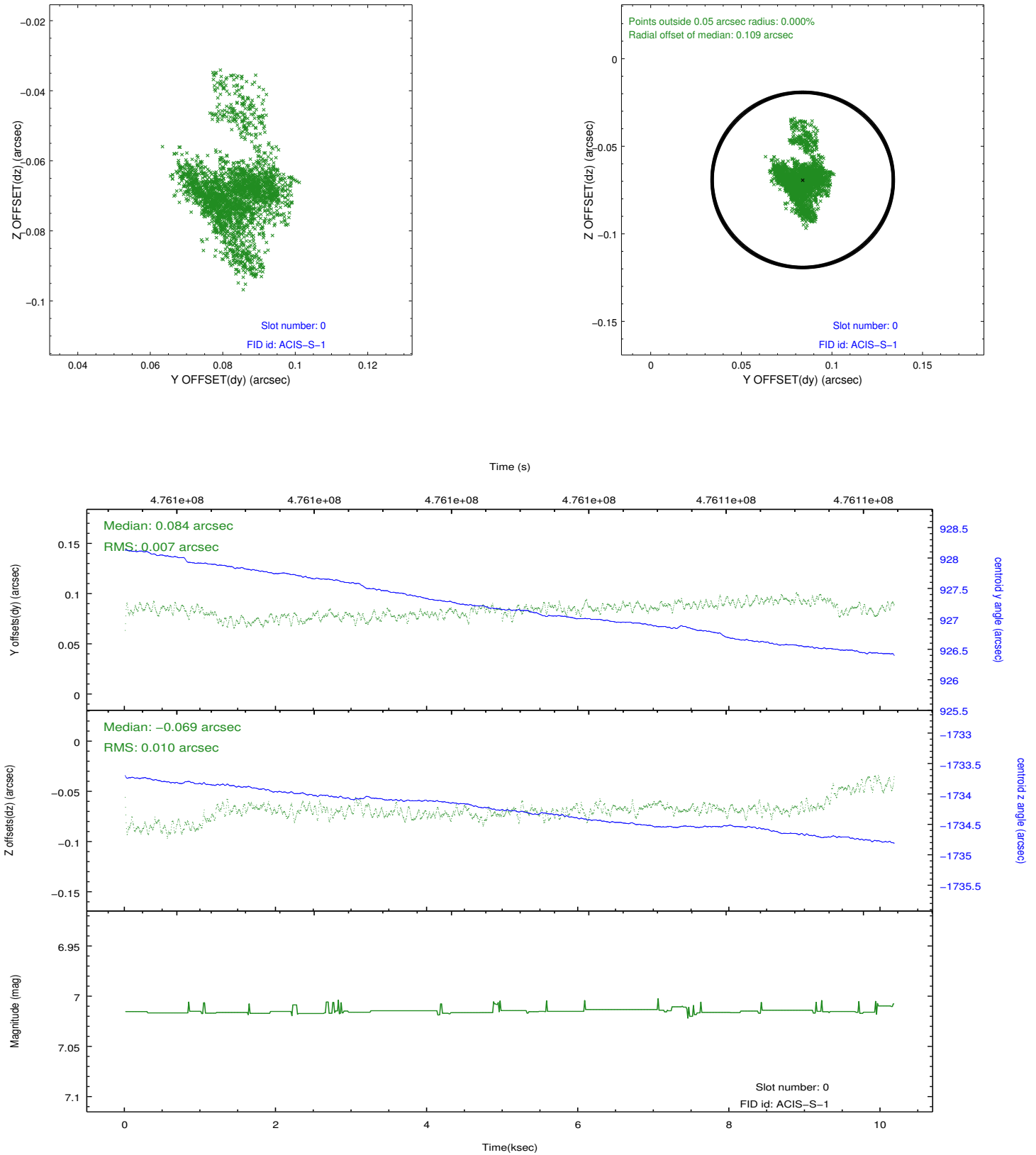


2.4.5 Slot 7

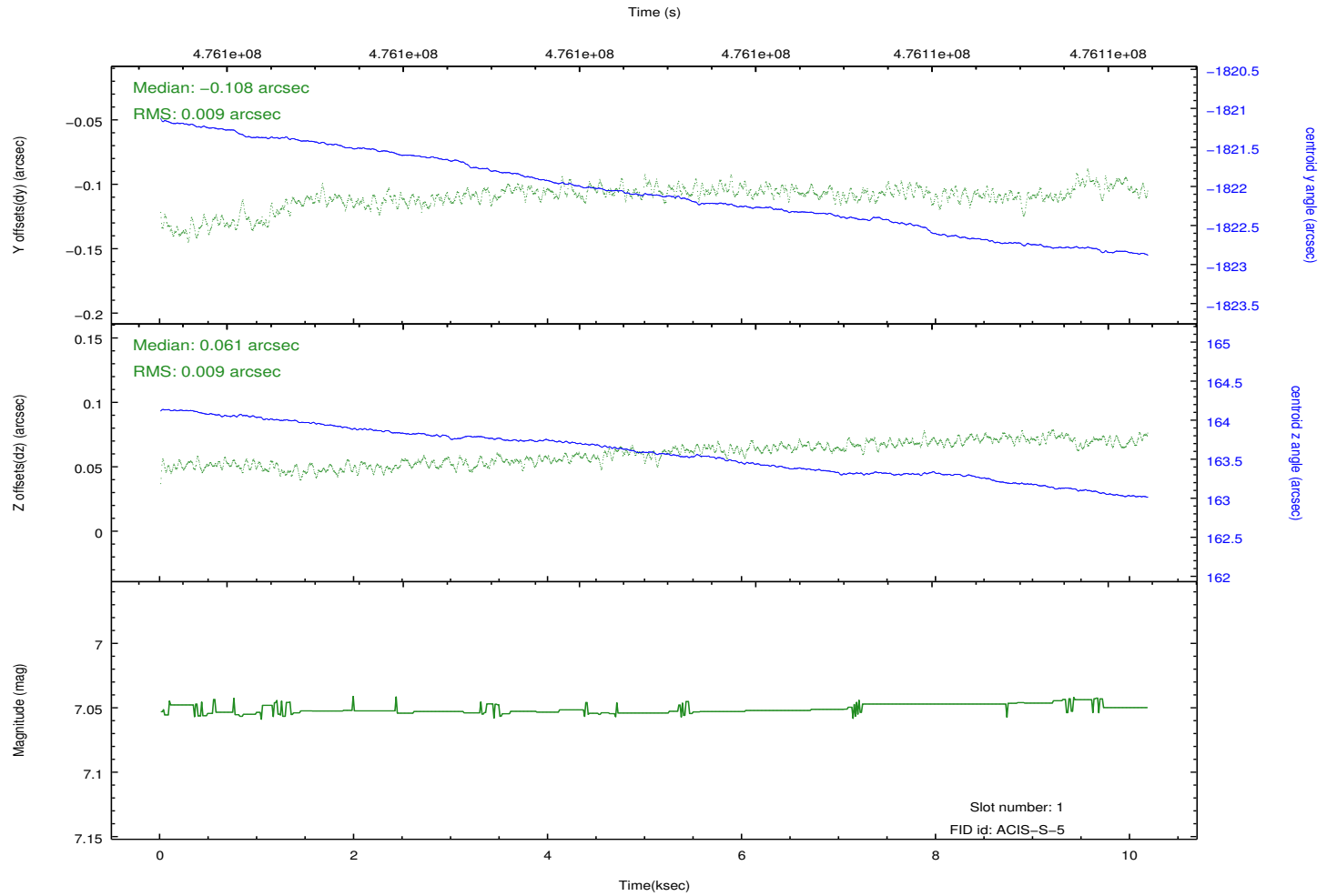
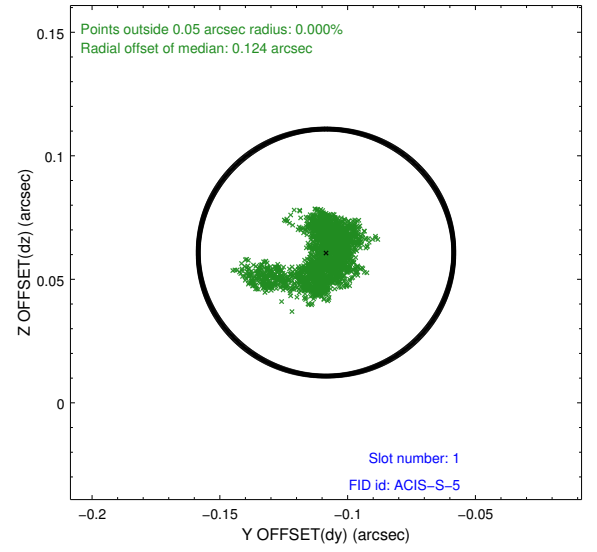
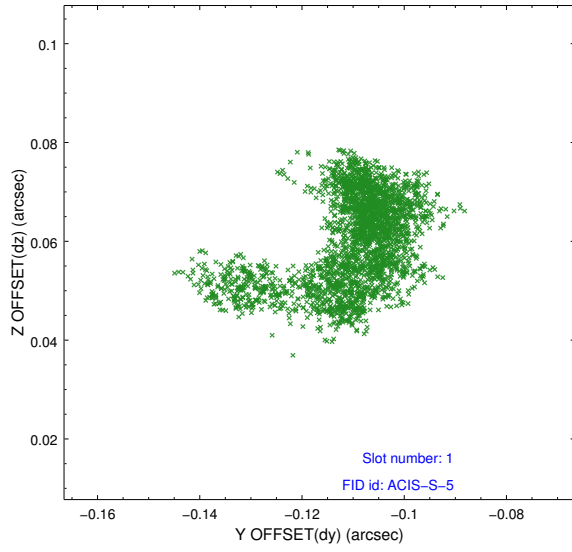


2.5 FID Slots

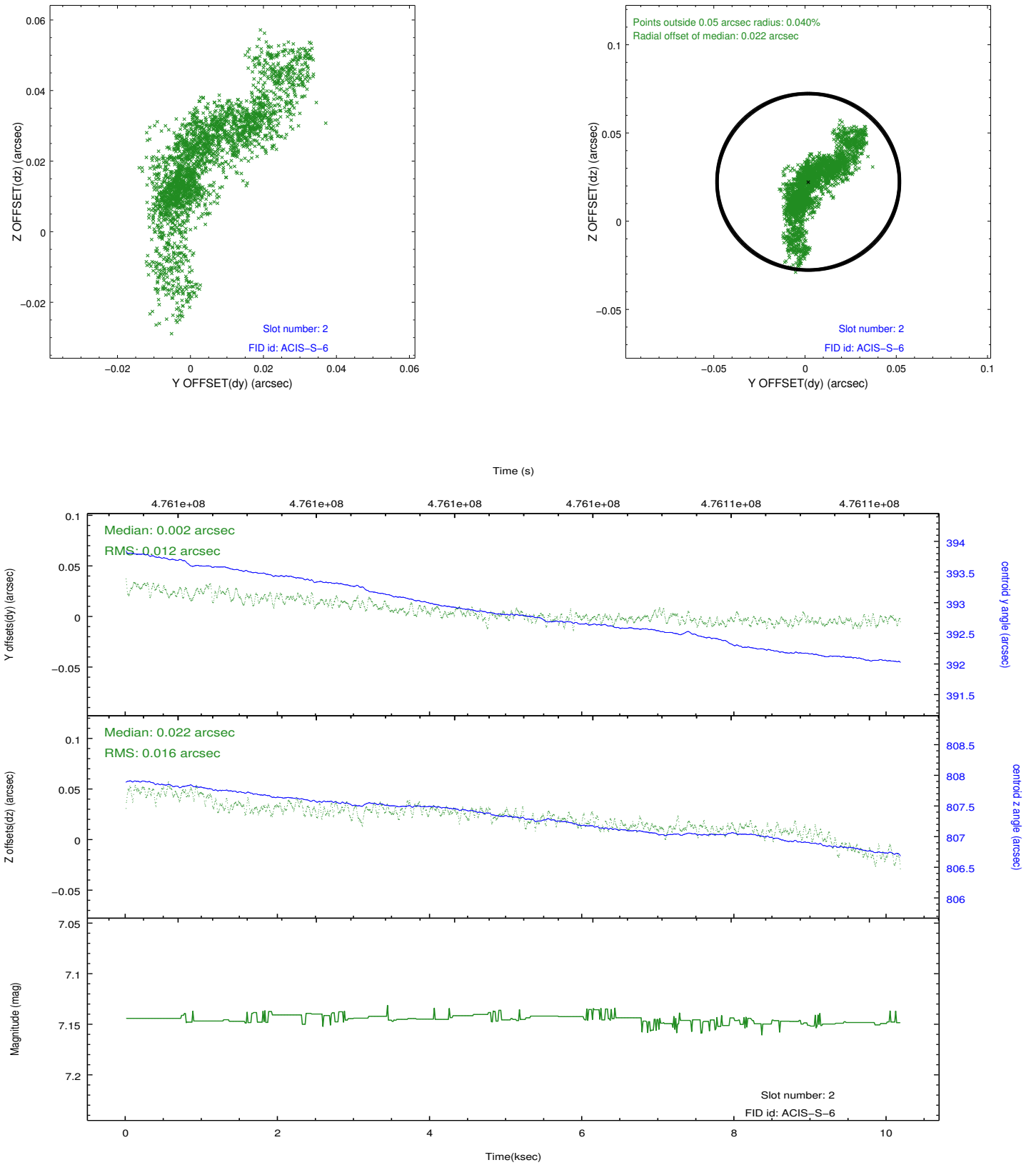
2.5.1 Slot 0



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	10.061302413523

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.