

V&V Reference Report

L2 ASCDS Version : 10.1

Observation 15334 - L2 Version 2
Chandra X-Ray Center

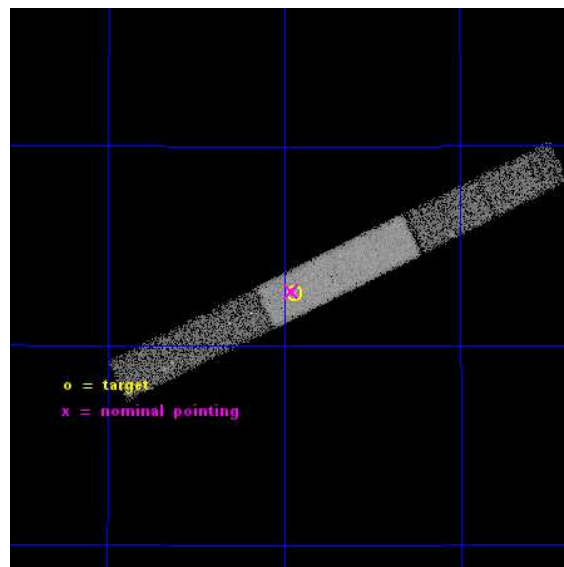
L2 Processing Date : Dec 9 2014

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1 Front

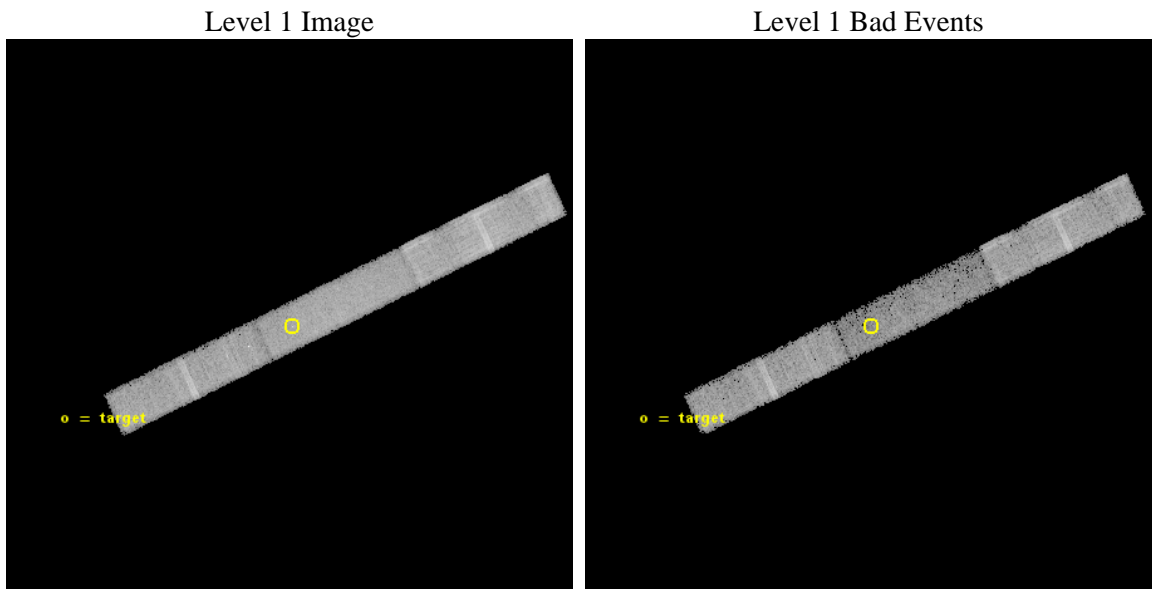
seq_num	702894	Sequence number
obs_id	15334	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1521+5202	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.485417	Observer's specified target RA [deg]
dec_targ	52.044028	Observer's specified target Dec [deg]
ra_nom	230.48959047842	Nominal RA [deg]
dec_nom	52.045634070866	Nominal Dec [deg]
roll_nom	334.40445452435	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39093.298964381	Sum of GTIs [s]
livetime	37388.388451015	Livetime [s]
ontime6	39093.298964381	Sum of GTIs [s]
ontime7	39093.298964381	Sum of GTIs [s]
ontime8	39093.298964381	Sum of GTIs [s]
l2events	38438	Number of level 2 events



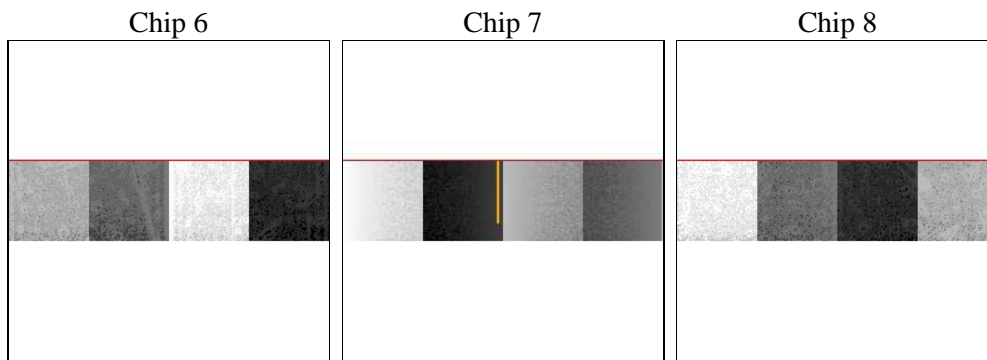
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	39000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	39093.298964381	Sum of GTIs [s]
caldbver	4.6.4	 	ontime6	39093.298964381	Sum of GTIs [s]
date	2014-12-09T05:10:12	Date and time of file creation	ontime7	39093.298964381	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	39093.298964381	Sum of GTIs [s]
			l1events	183700	Number of level 1 events

2.1.4 Events

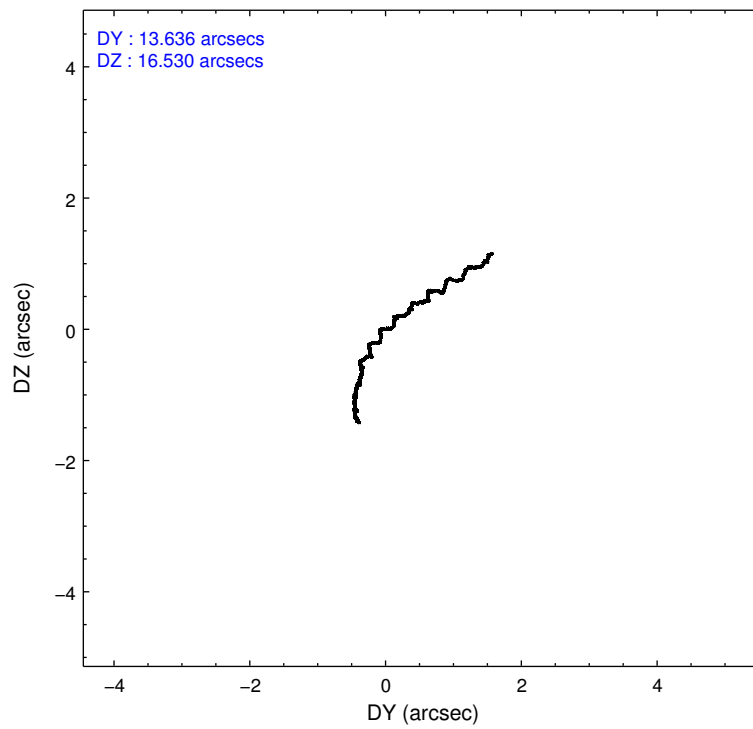
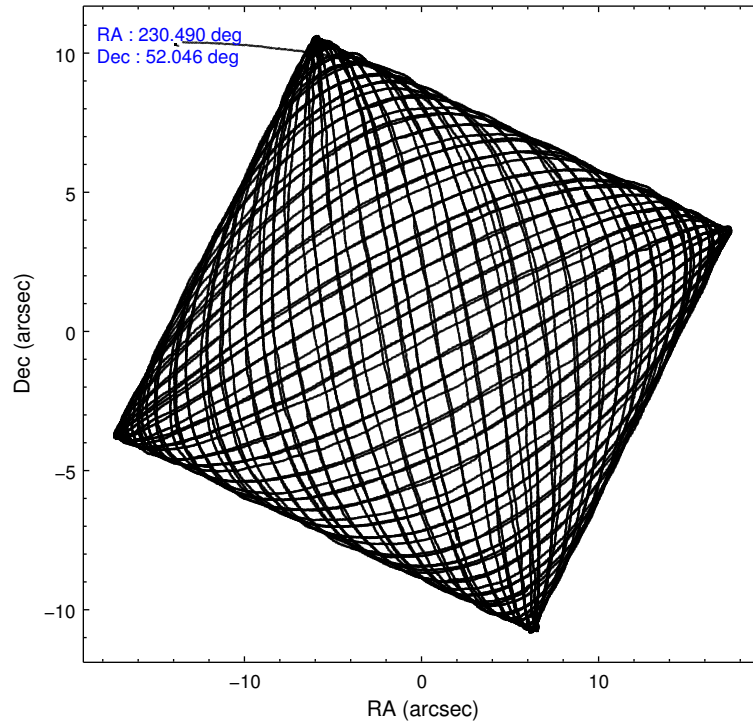
	ccd 6	ccd 7	ccd 8
level 1 events	53782	55853	74065
rejected events	46885	27806	55972
rejected %	87%	49%	75%

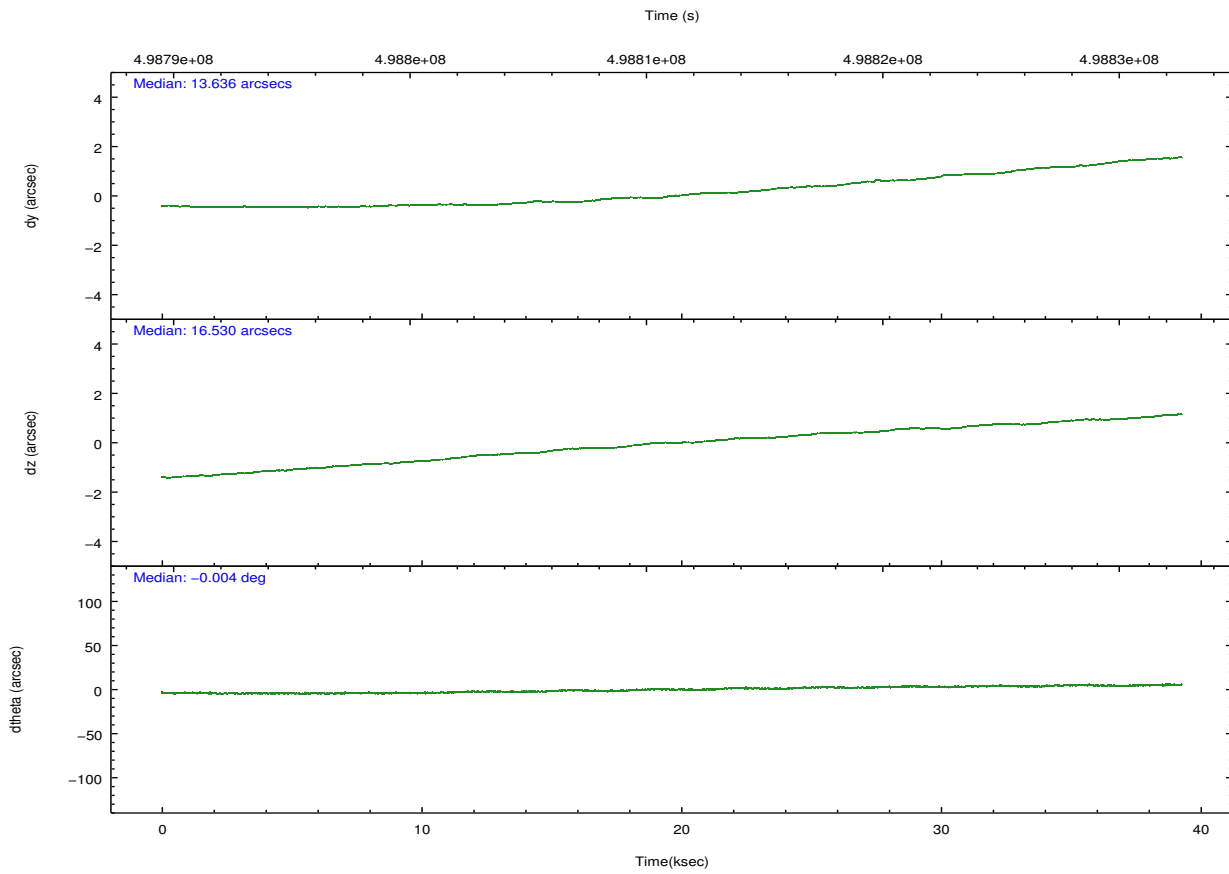
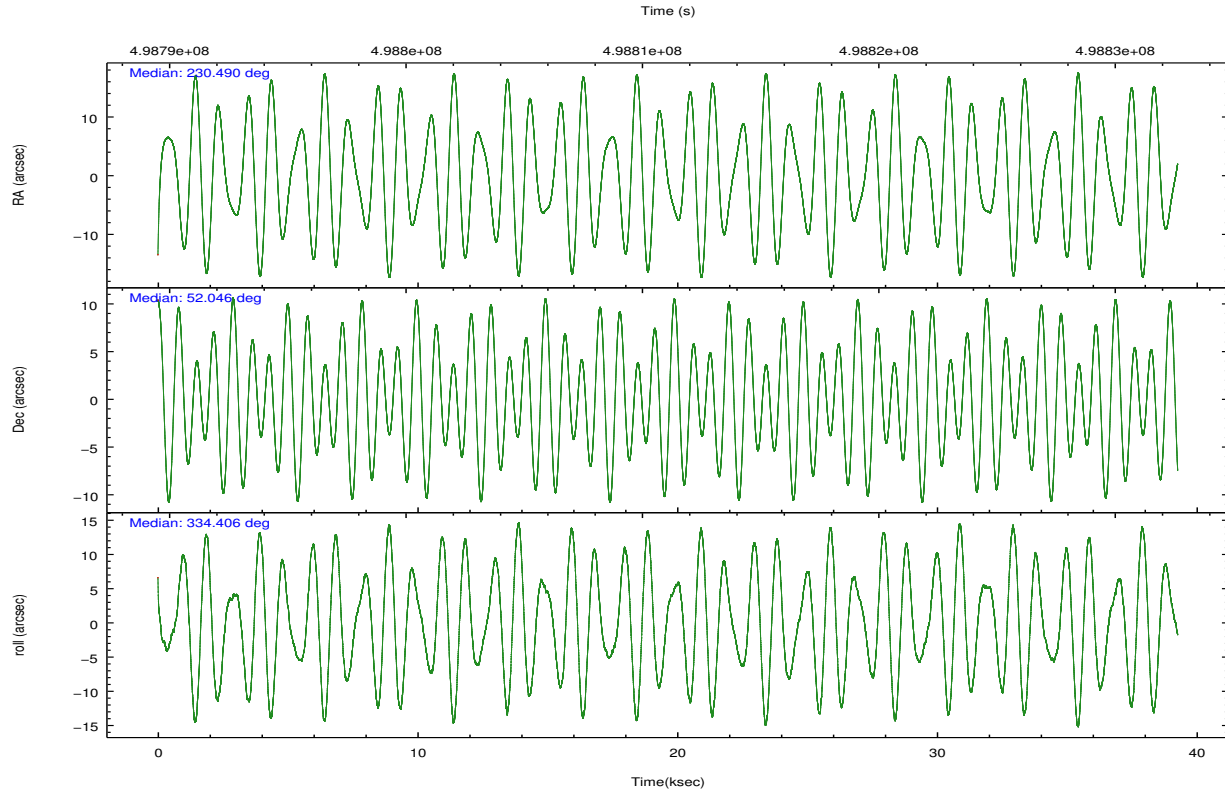
	ccd 6	ccd 7	ccd 8
grade 0 events	2333	2994	4471
	4%	5%	6%
grade 1 events	20	94	37
	0%	0%	0%
grade 2 events	1333	5865	4160
	2%	10%	5%
grade 3 events	1008	3172	2102
	1%	5%	2%
grade 4 events	1019	3088	1992
	1%	5%	2%
grade 5 events	2113	6019	3087
	3%	10%	4%
grade 6 events	1204	12928	5368
	2%	23%	7%
grade 7 events	44752	21693	52848
	83%	38%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	230.445327	230.4895904784155	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	52.043156	52.04563407086565	Subarray start row	385	385
[deg] Pointing Roll	334.282735	334.4044545243502	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.9
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	498791704.184000	498790661.47038			
Observation start date	2013-10-22T01:13:57	2013-10-22T00:57:41			
[s] Observation end time (MET)	498830704.184000	498831721.94761			
Observation end date	2013-10-22T12:03:57	2013-10-22T12:22:01			
Read mode	TIMED	TIMED			

2.3 Aspect





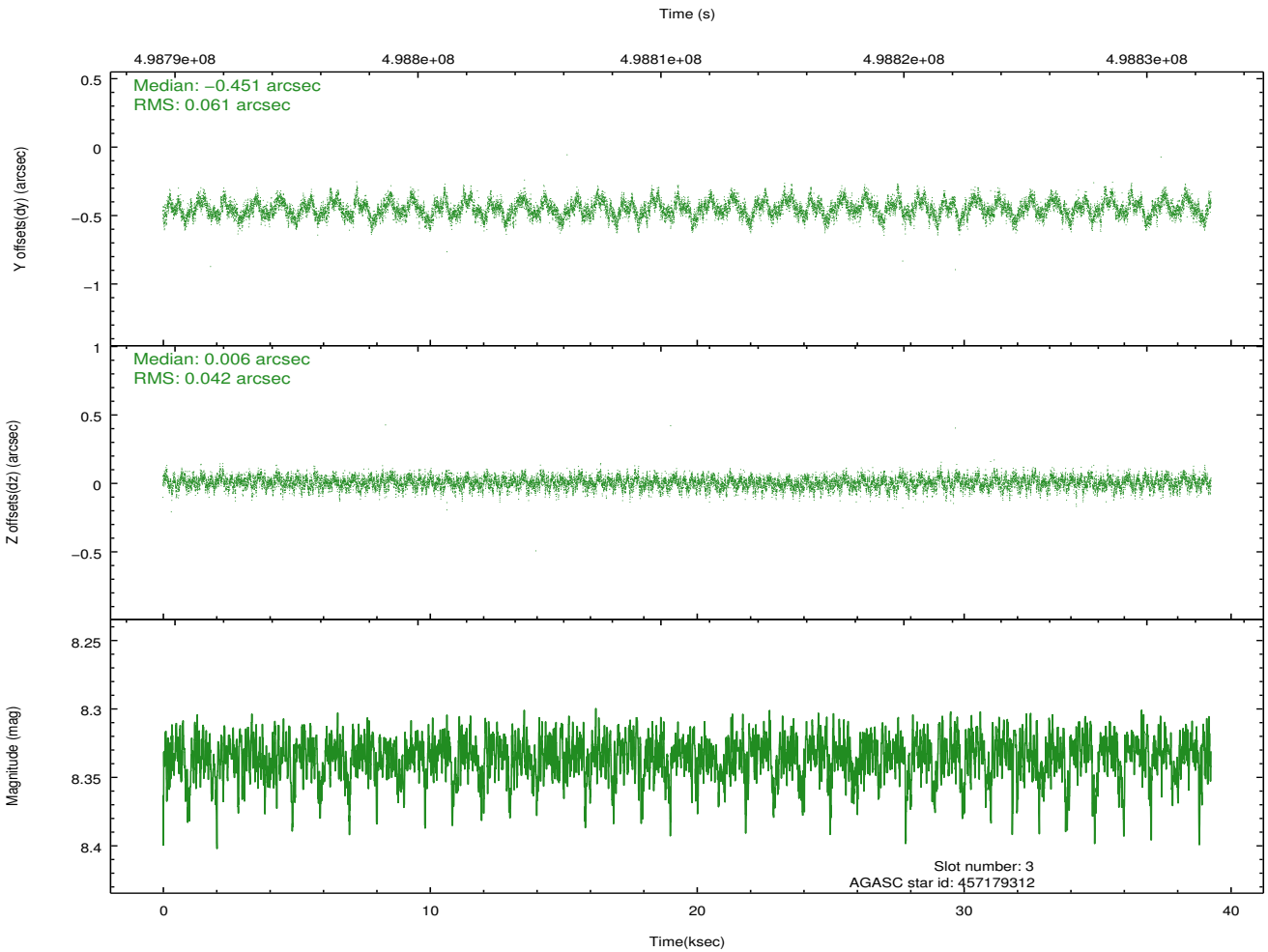
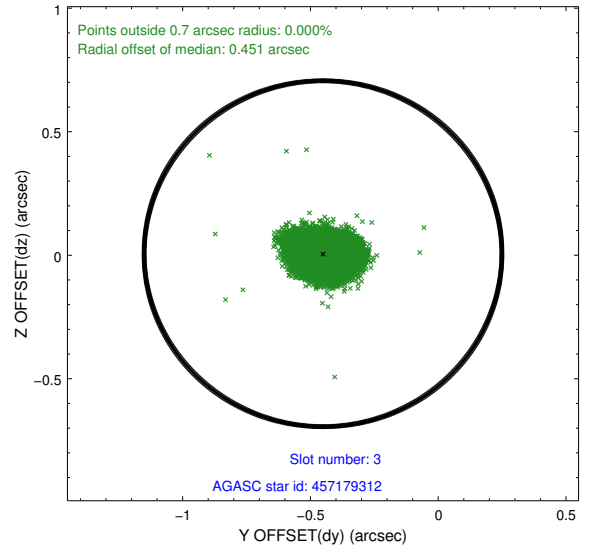
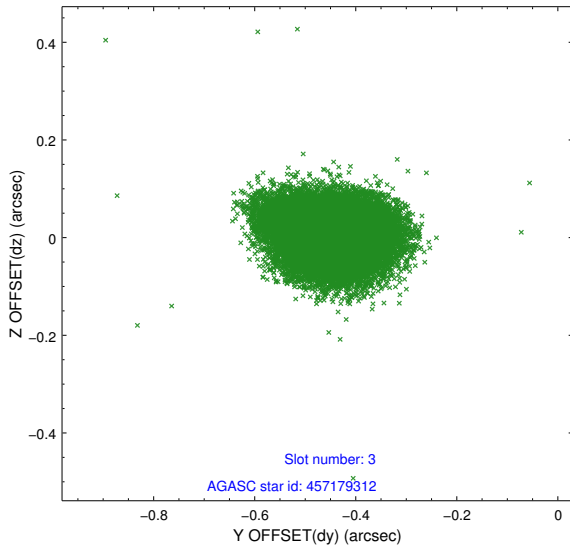
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	9577	-0.056	-0.005	0.020	0.036	0.000000	0.000000	-766.85	-1737.87
1	FID		ACIS-S-4	7.03	9574	0.195	0.028	0.014	0.022	0.000000	0.000000	2146.68	170.61
2	FID		ACIS-S-5	7.06	9577	-0.167	-0.013	0.015	0.023	0.000000	0.000000	-1819.77	164.28
3	GUIDE	used	457179312	8.33	19148	-0.451	0.006	0.078	0.128	231.195614	51.666918	2092.96	-485.56
4	GUIDE	used	457180992	7.89	19151	0.230	0.000	0.065	0.105	230.362137	52.344454	-635.56	897.85
5	GUIDE	used	457181616	8.81	19136	0.343	-0.095	0.100	0.155	229.954323	52.287535	-1356.86	328.23
6	GUIDE	used	457181640	6.42	19154	-0.223	0.087	0.052	0.084	231.617187	52.052567	2312.99	1175.33
7	GUIDE	used	457182176	8.43	19145	0.100	0.004	0.075	0.118	230.710636	52.153119	356.00	612.43

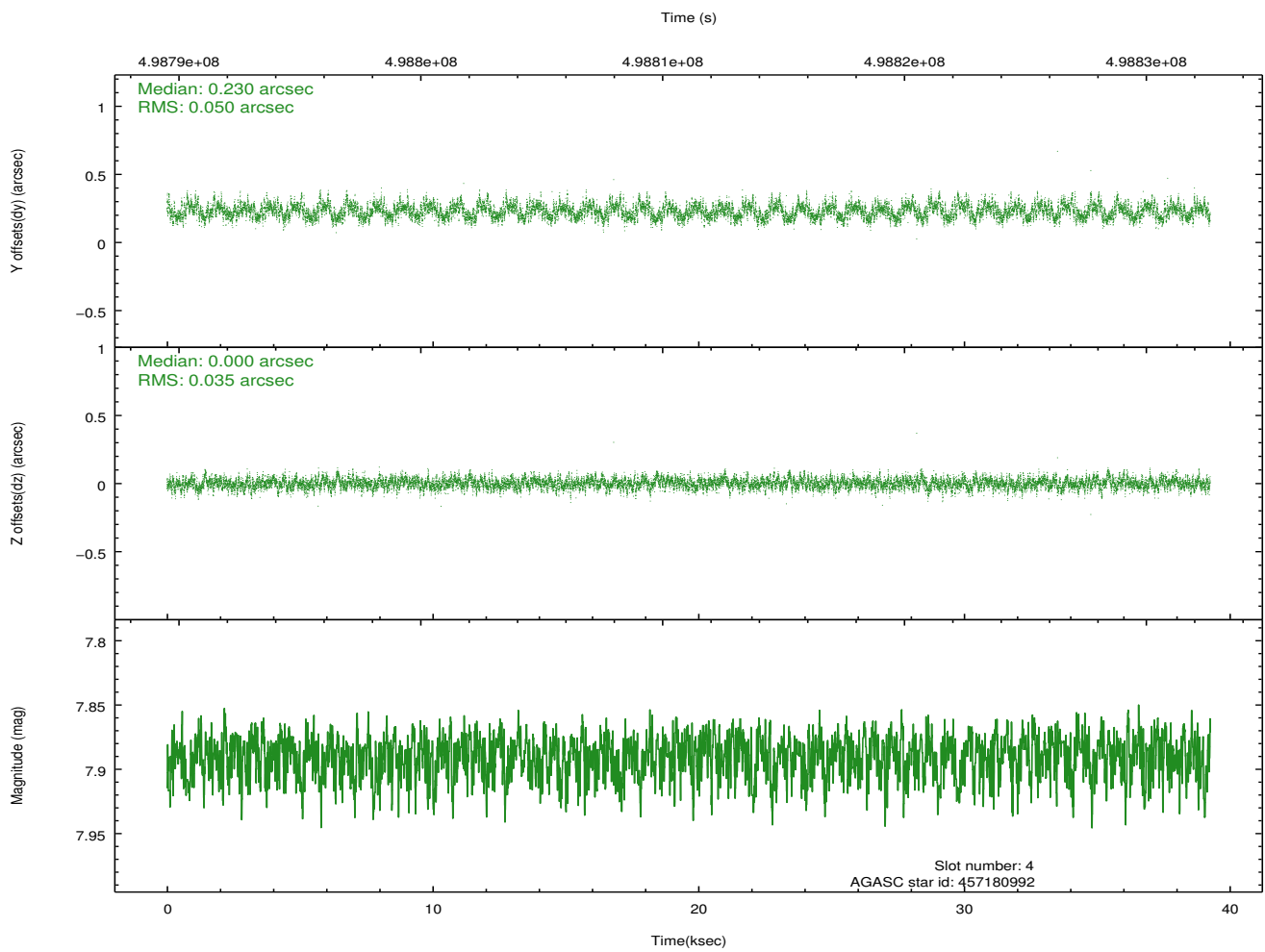
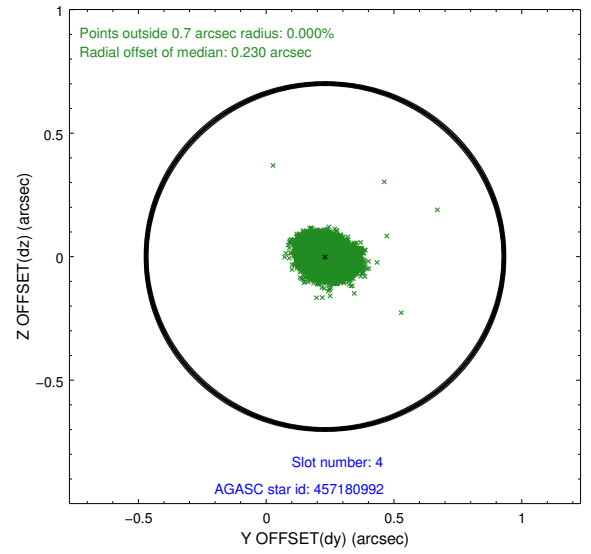
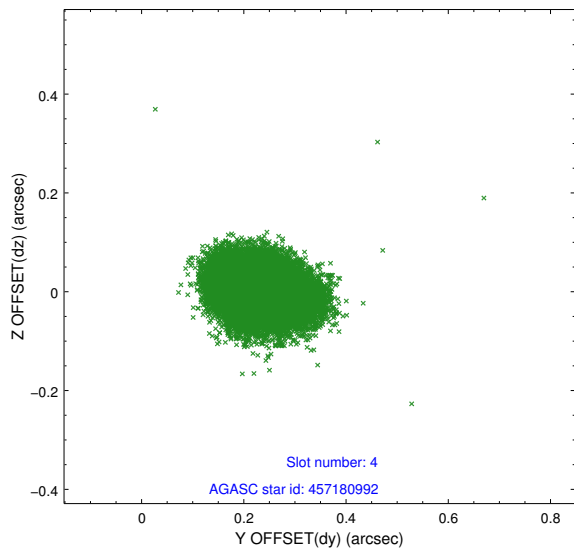
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2.4 Star Slots

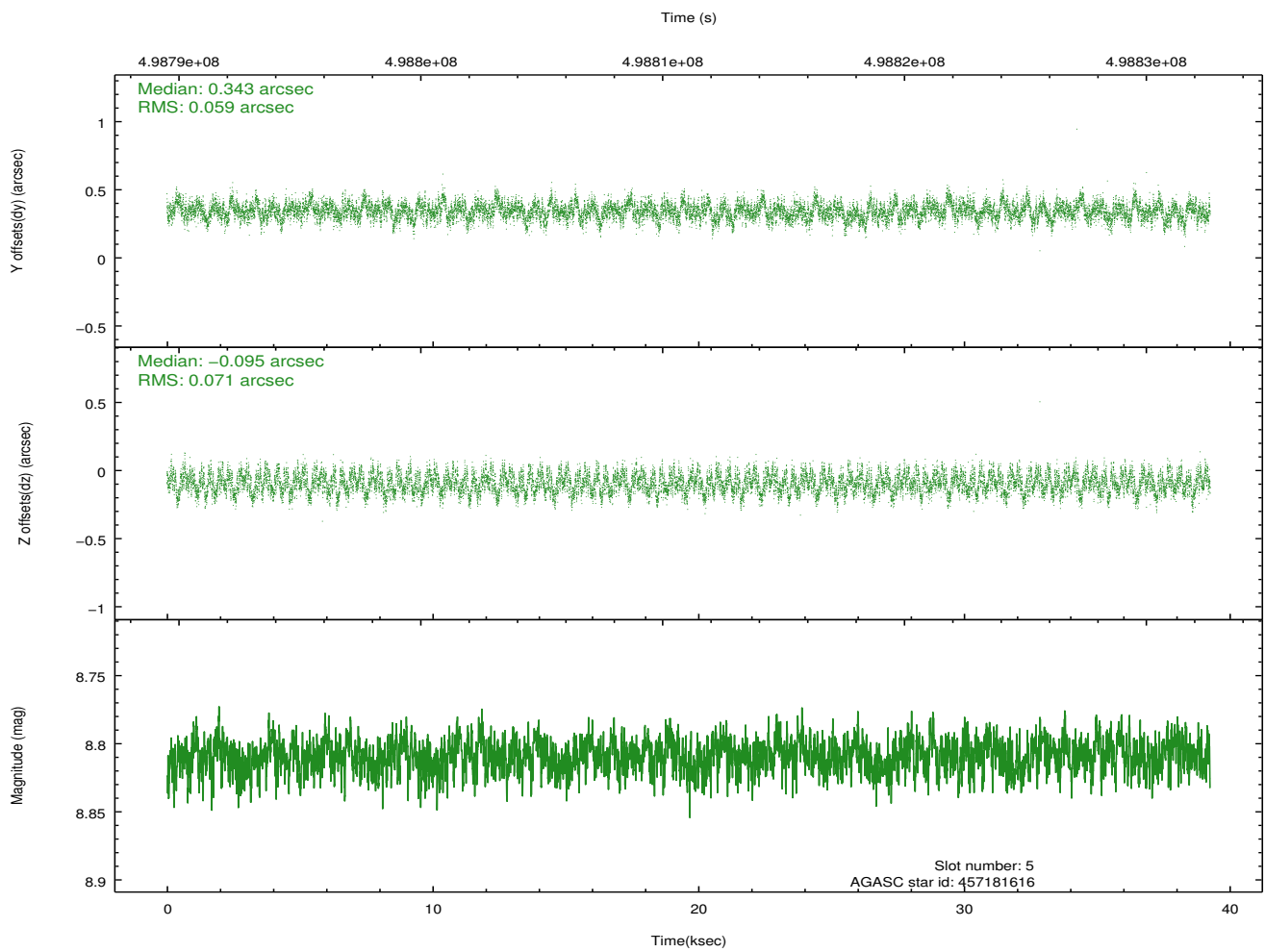
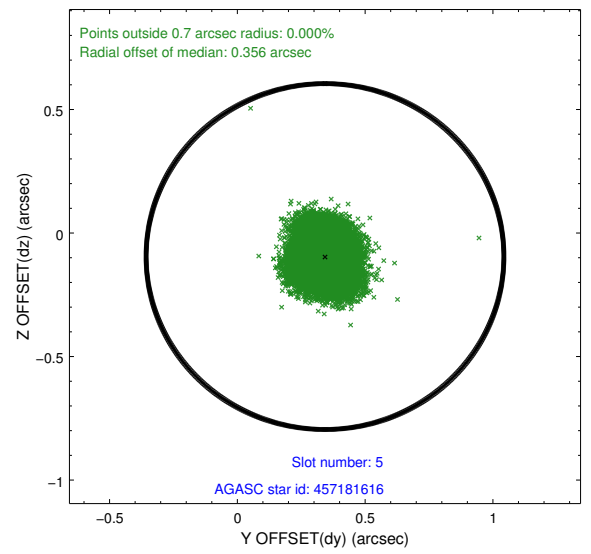
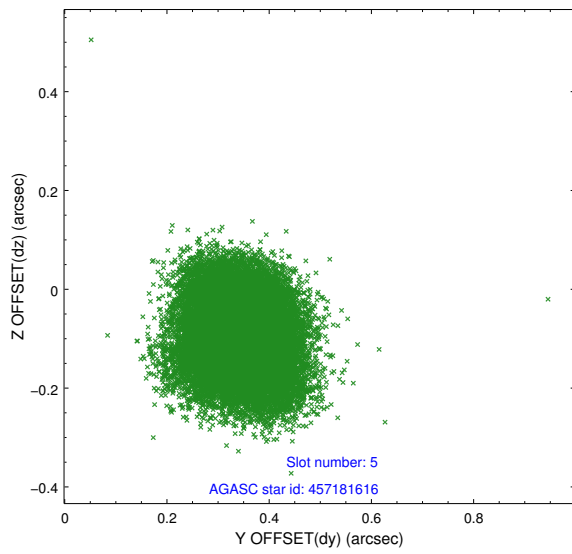
2.4.1 Slot 3



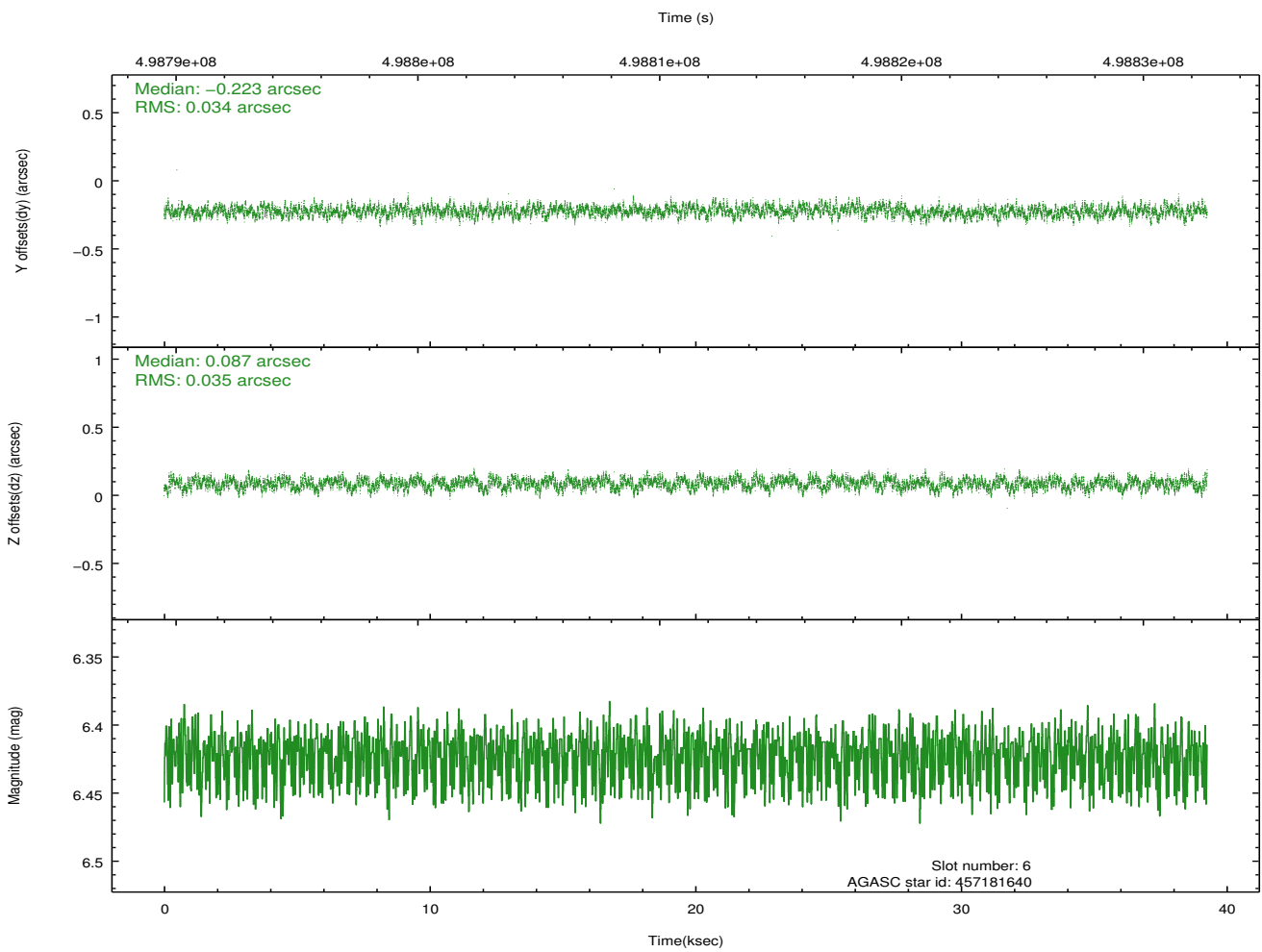
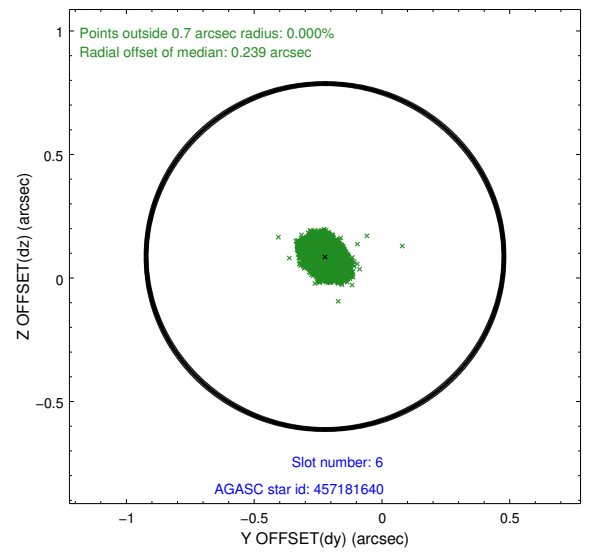
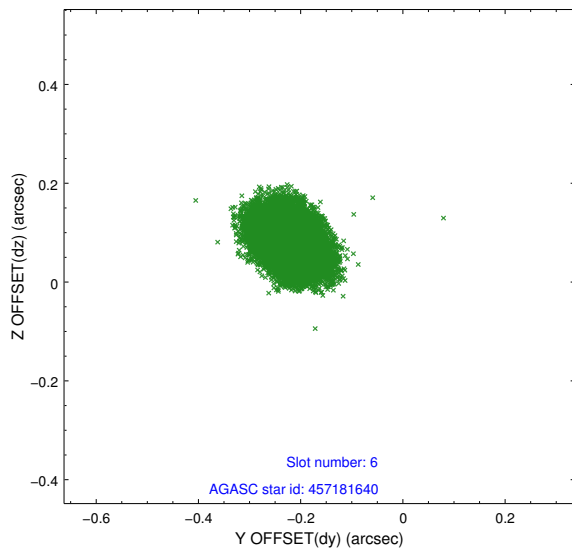
2.4.2 Slot 4



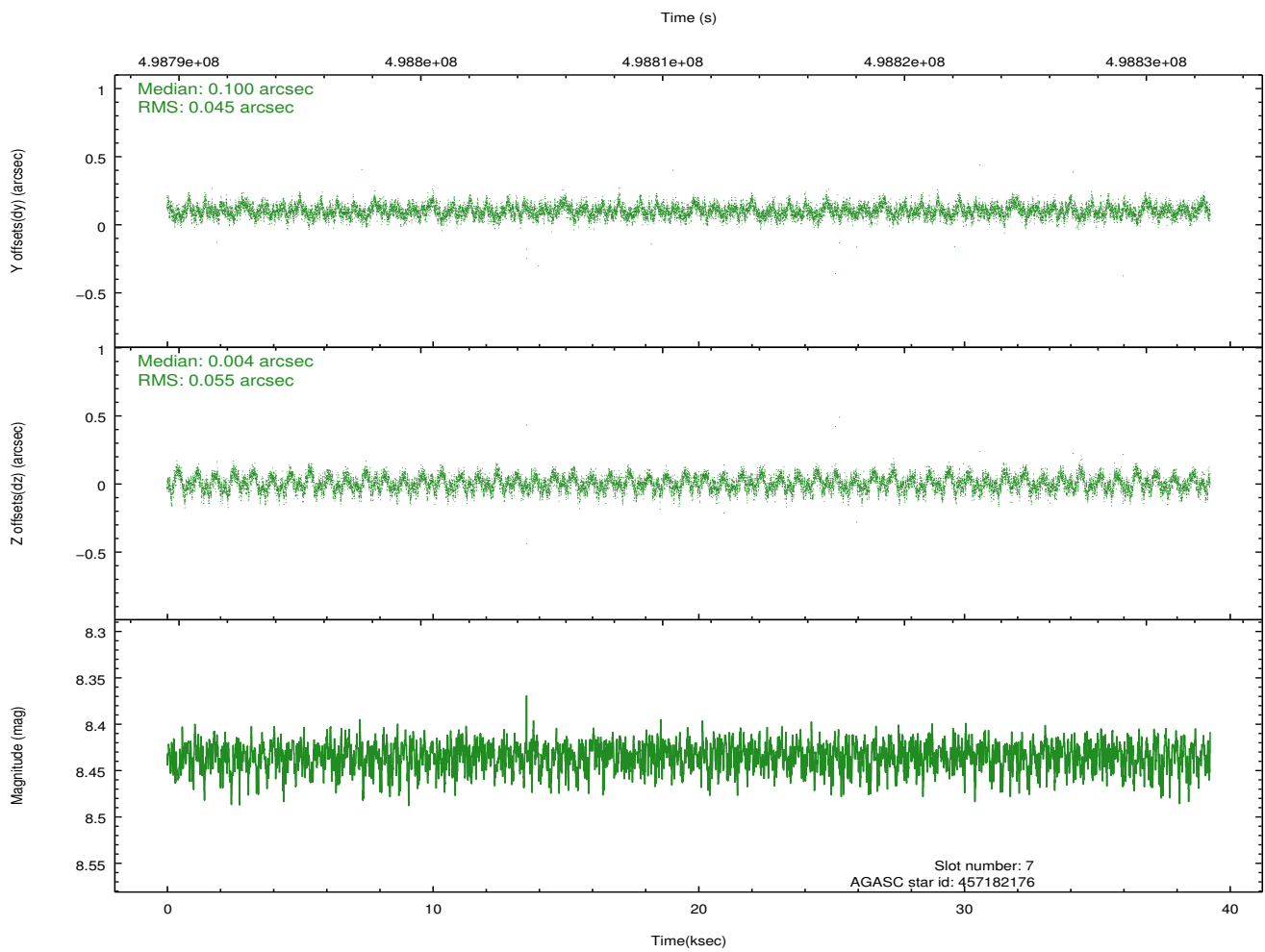
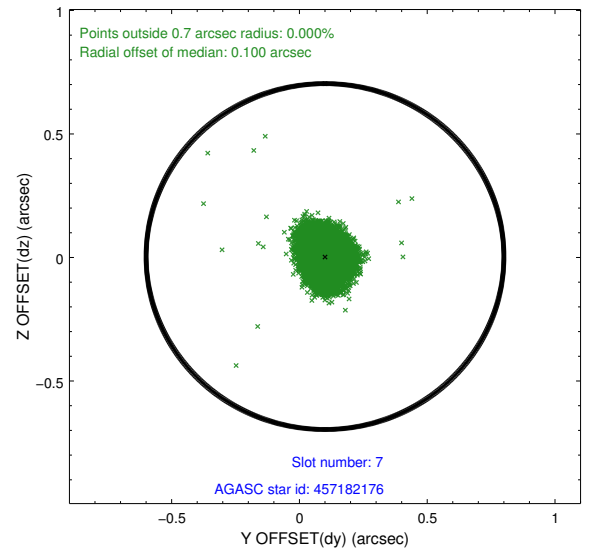
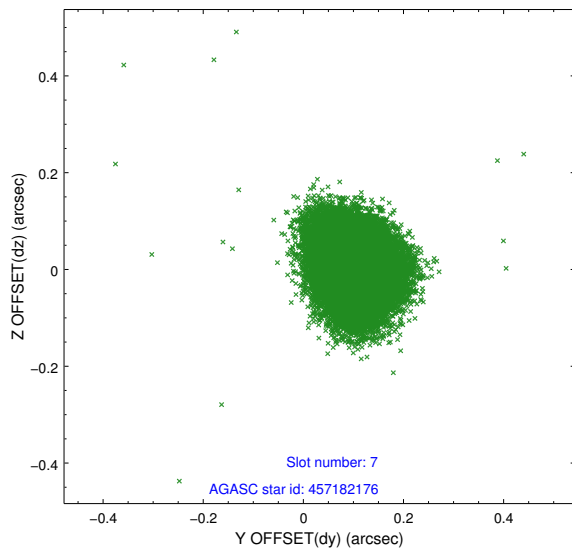
2.4.3 Slot 5



2.4.4 Slot 6

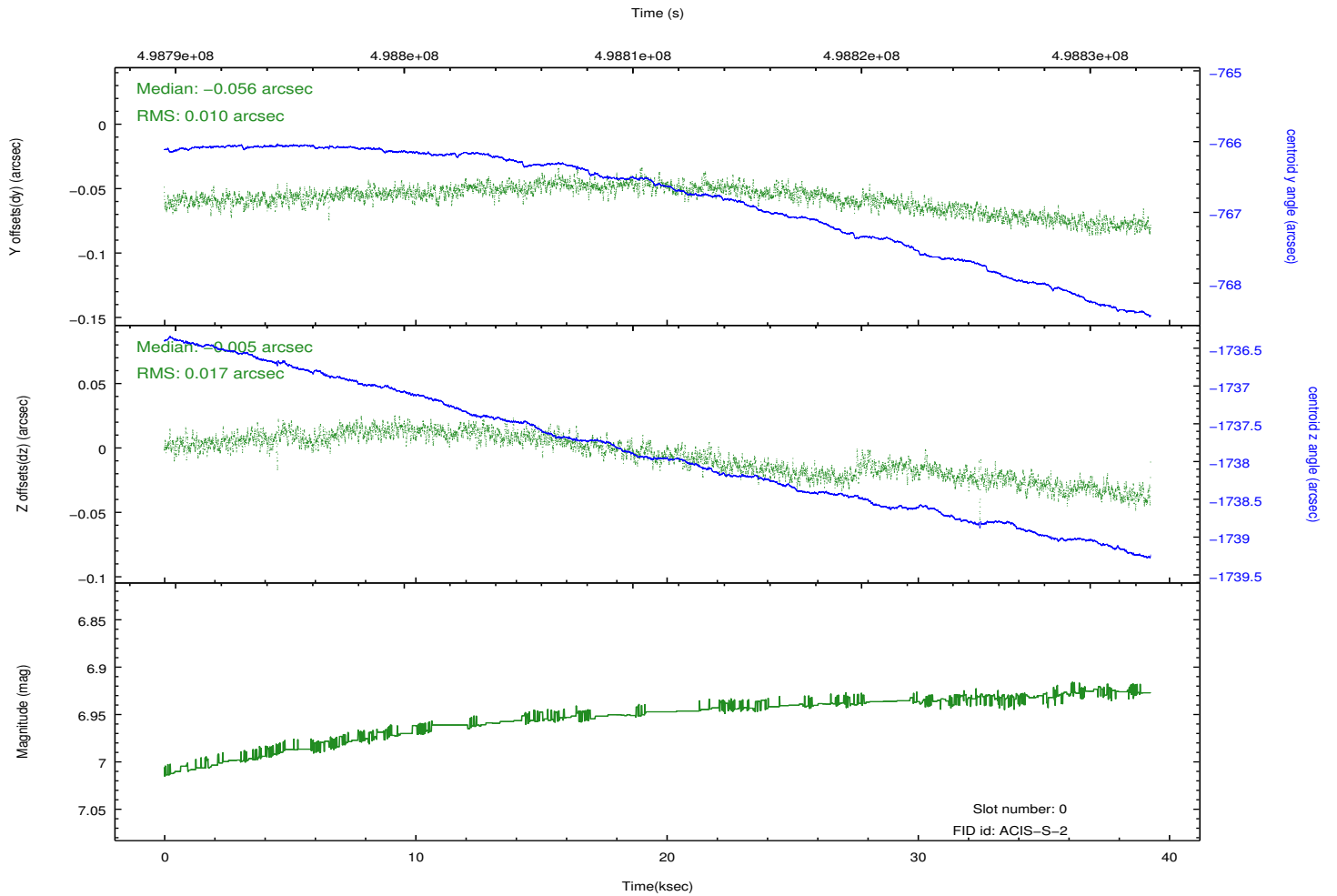
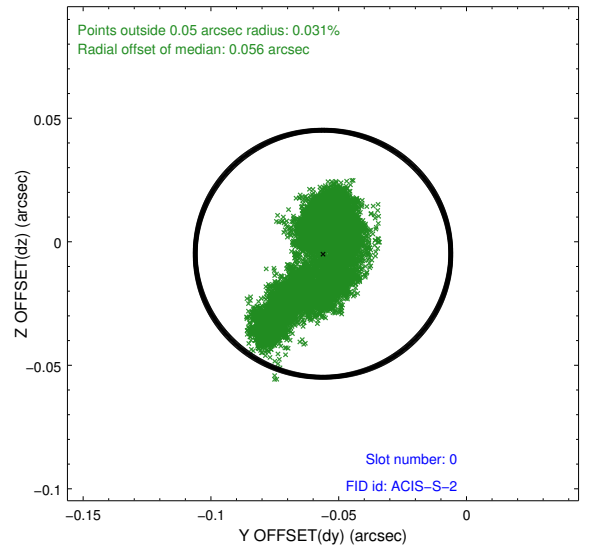
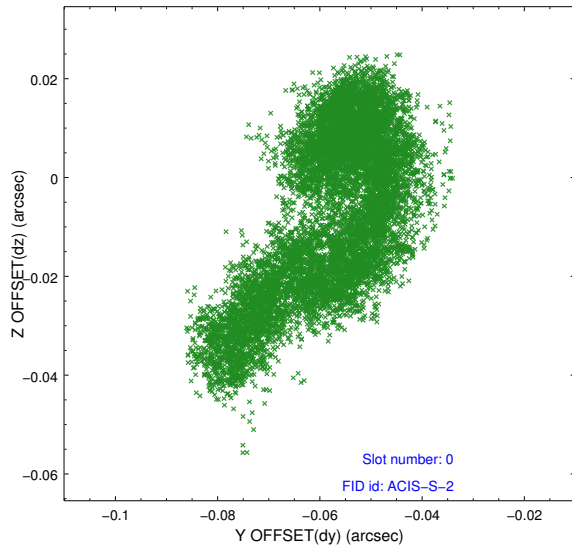


2.4.5 Slot 7

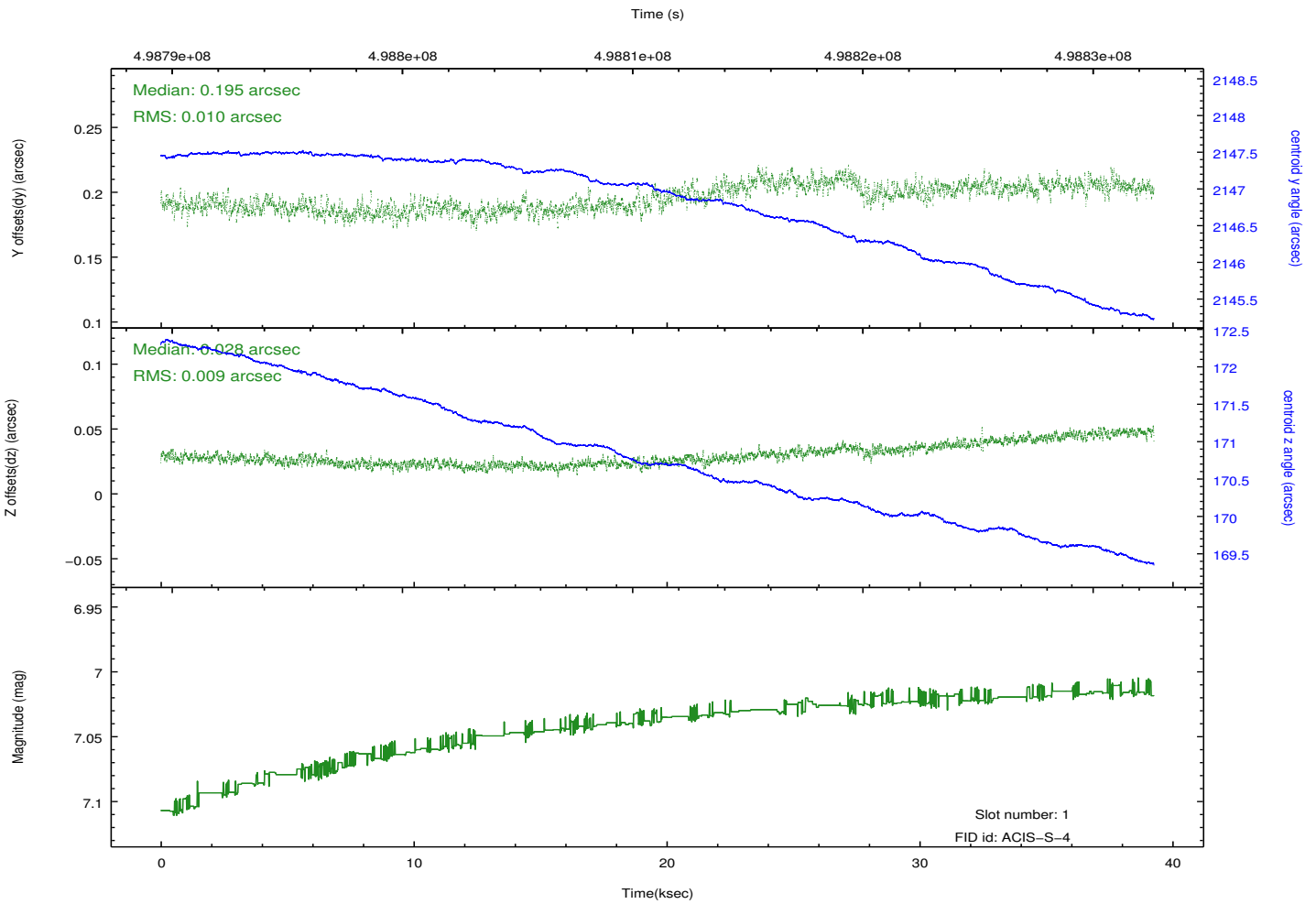
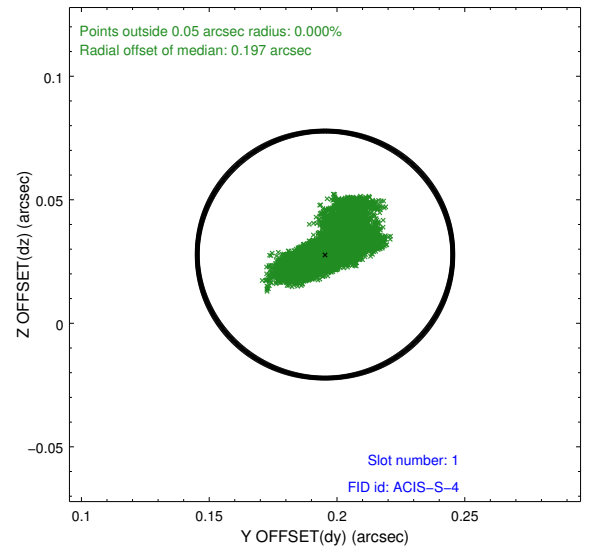
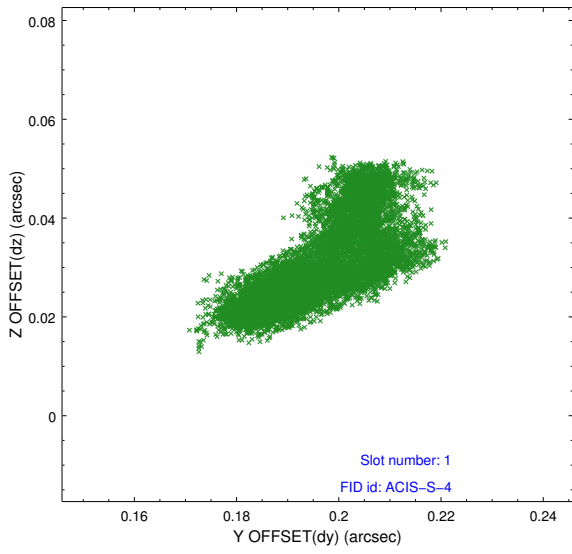


2.5 FID Slots

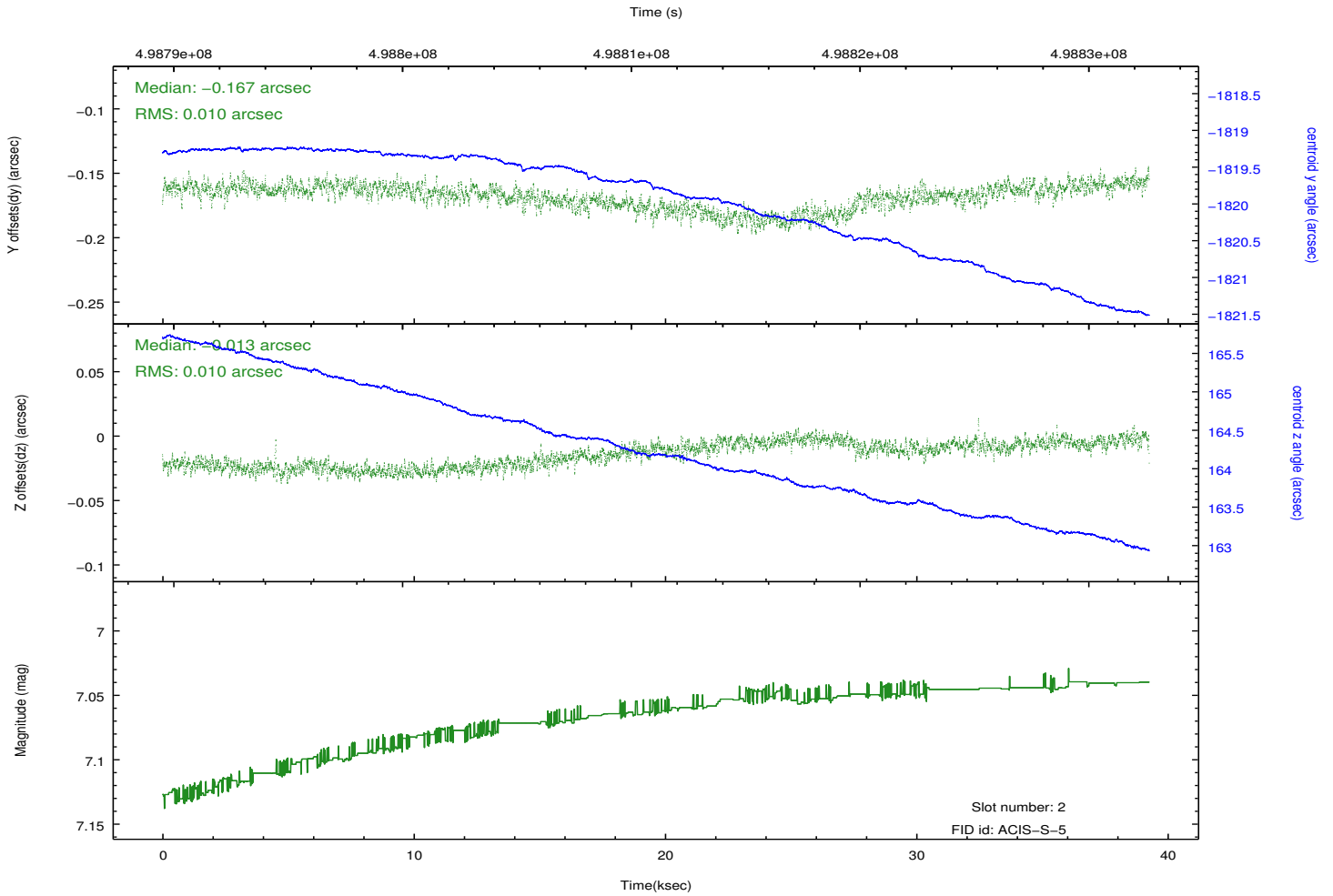
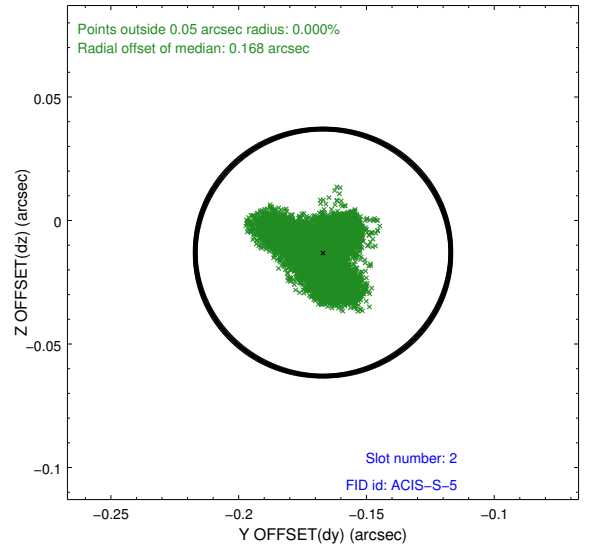
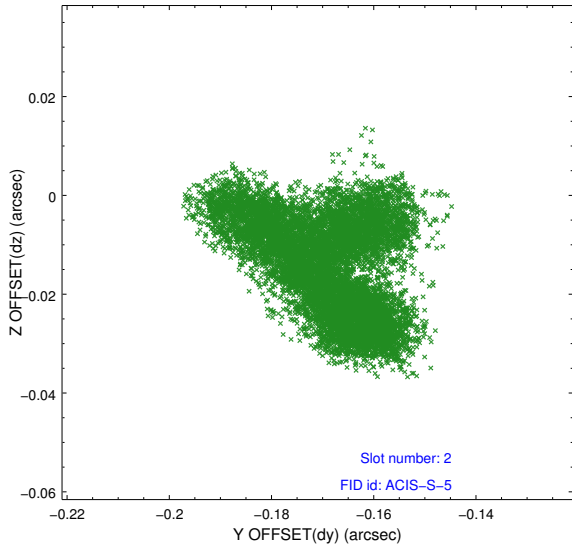
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.093298964381

A.2 Comments

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.