

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13860 - L2 Version 2
Chandra X-Ray Center

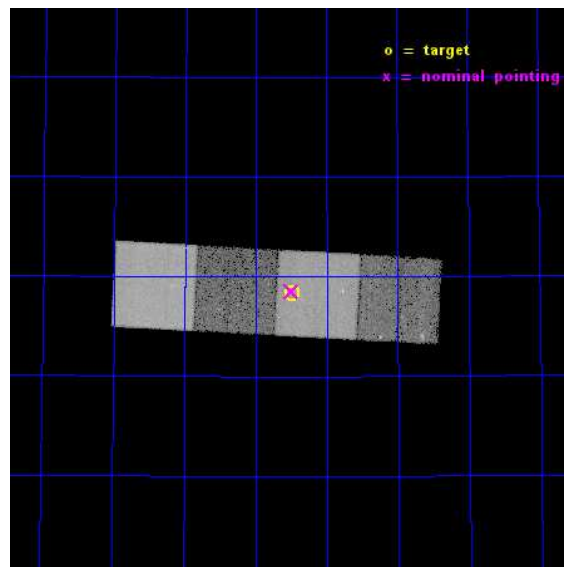
L2 Processing Date : Nov 27 2014

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1 Front

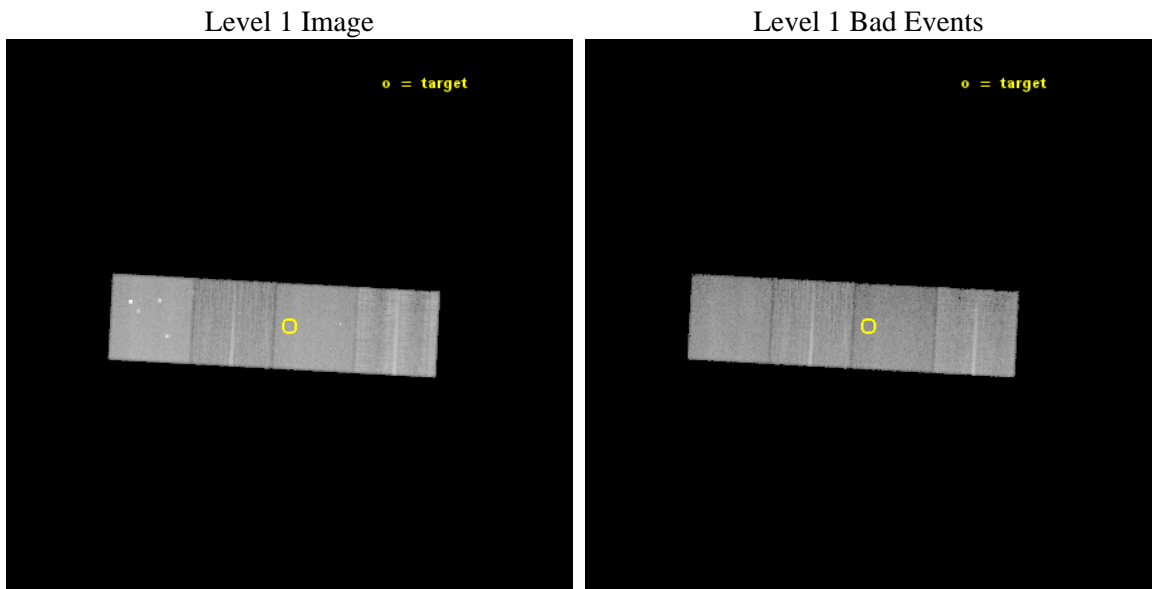
seq_num	702586	Sequence number
obs_id	13860	Observation id
title	The Radio--X-ray--BH-Mass Plane for the Smallest Supermassive Black Holes	Proposal title
observer	Dr. Kayhan Gultekin	Principal investigator
object	SDSS J121629.13+601823.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.12125	Observer's specified target RA [deg]
dec_targ	60.306528	Observer's specified target Dec [deg]
ra_nom	184.12427678204	Nominal RA [deg]
dec_nom	60.309183408992	Nominal Dec [deg]
roll_nom	3.0012236940119	Nominal Roll [deg]
revision	2	Processing version of data
ontime	24325.700187087	Sum of GTIs [s]
livetime	24007.867005823	Livetime [s]
ontime5	24325.700187087	Sum of GTIs [s]
ontime6	24325.700187087	Sum of GTIs [s]
ontime7	24325.700187087	Sum of GTIs [s]
ontime8	24325.700187087	Sum of GTIs [s]
l2events	208205	Number of level 2 events



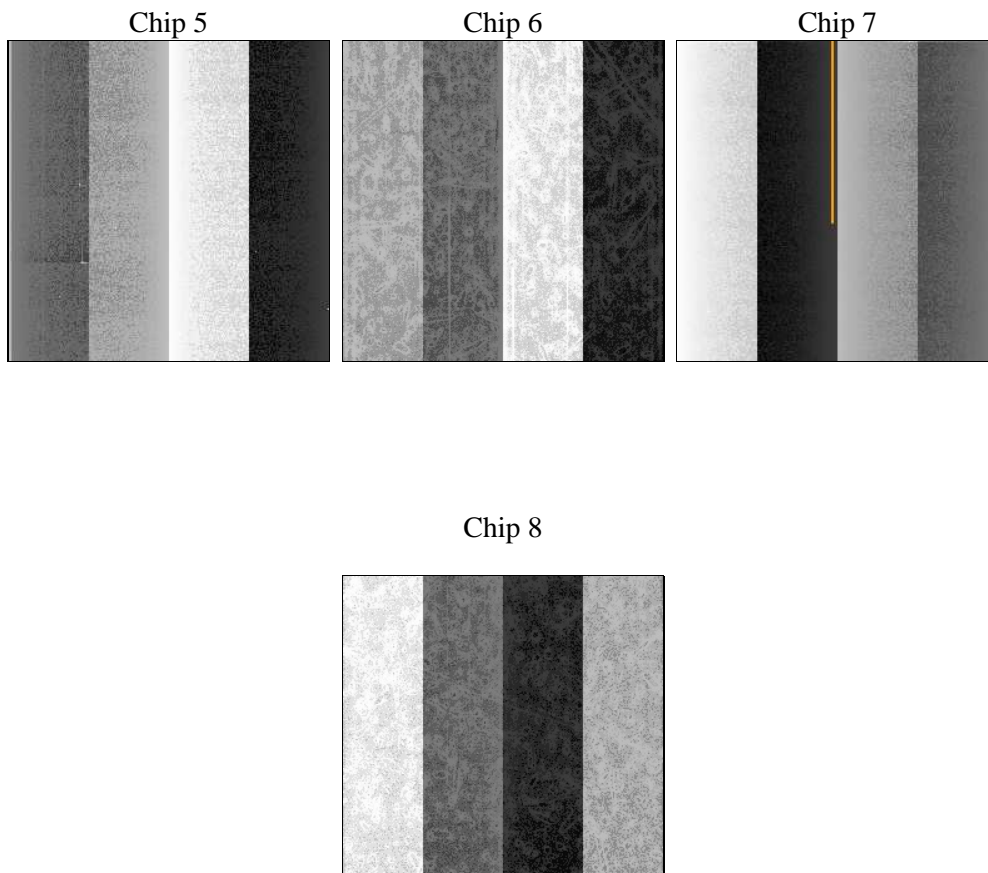
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24252.496000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	24325.700187087	Sum of GTIs [s]
caldbver	4.6.4	 	ontime5	24325.700187087	Sum of GTIs [s]
date	2014-11-27T16:45:55	Date and time of file creation	ontime6	24325.700187087	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	24325.700187087	Sum of GTIs [s]
			ontime8	24325.700187087	Sum of GTIs [s]
			l1events	746403	Number of level 1 events

2.1.4 Events

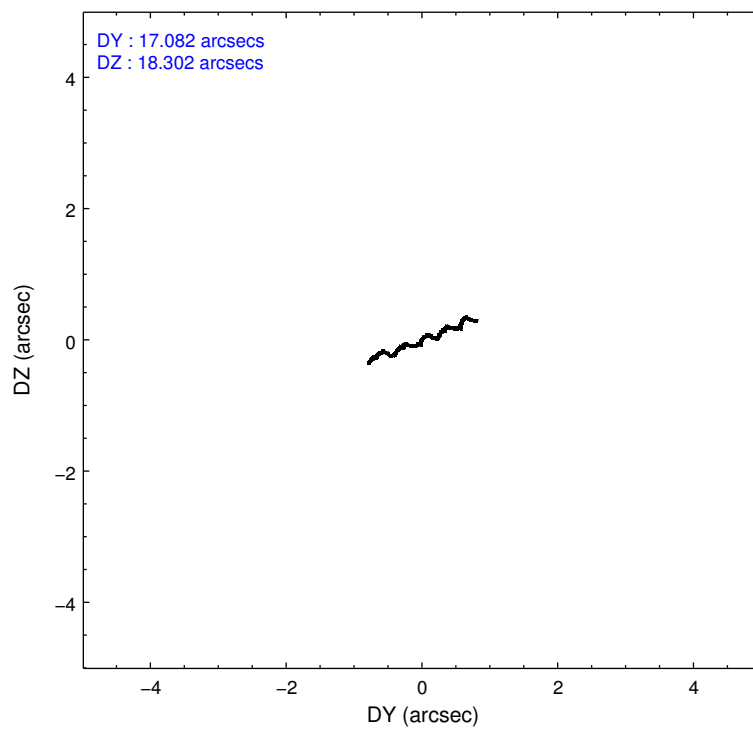
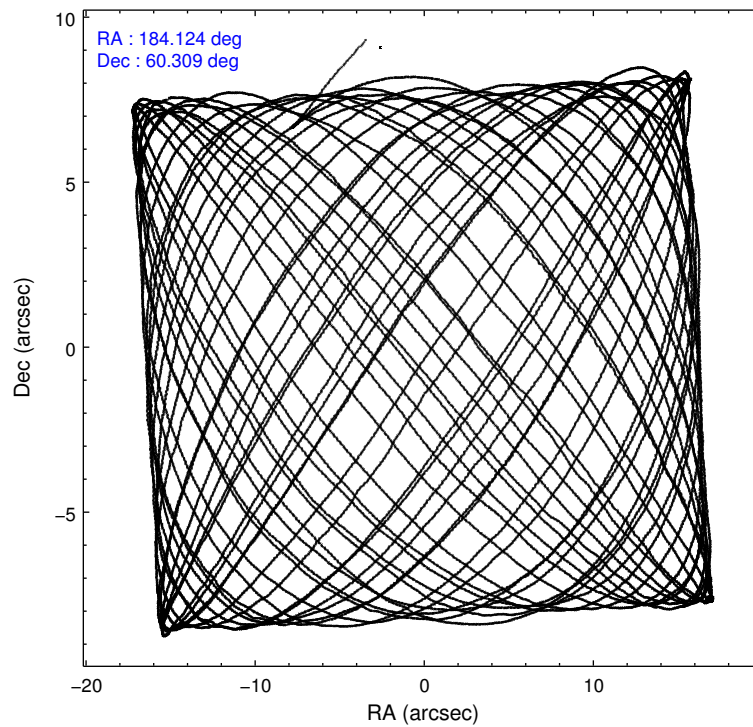
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	225834	137717	178540	204312
rejected events	112448	121169	98816	130603
rejected %	49%	87%	55%	63%

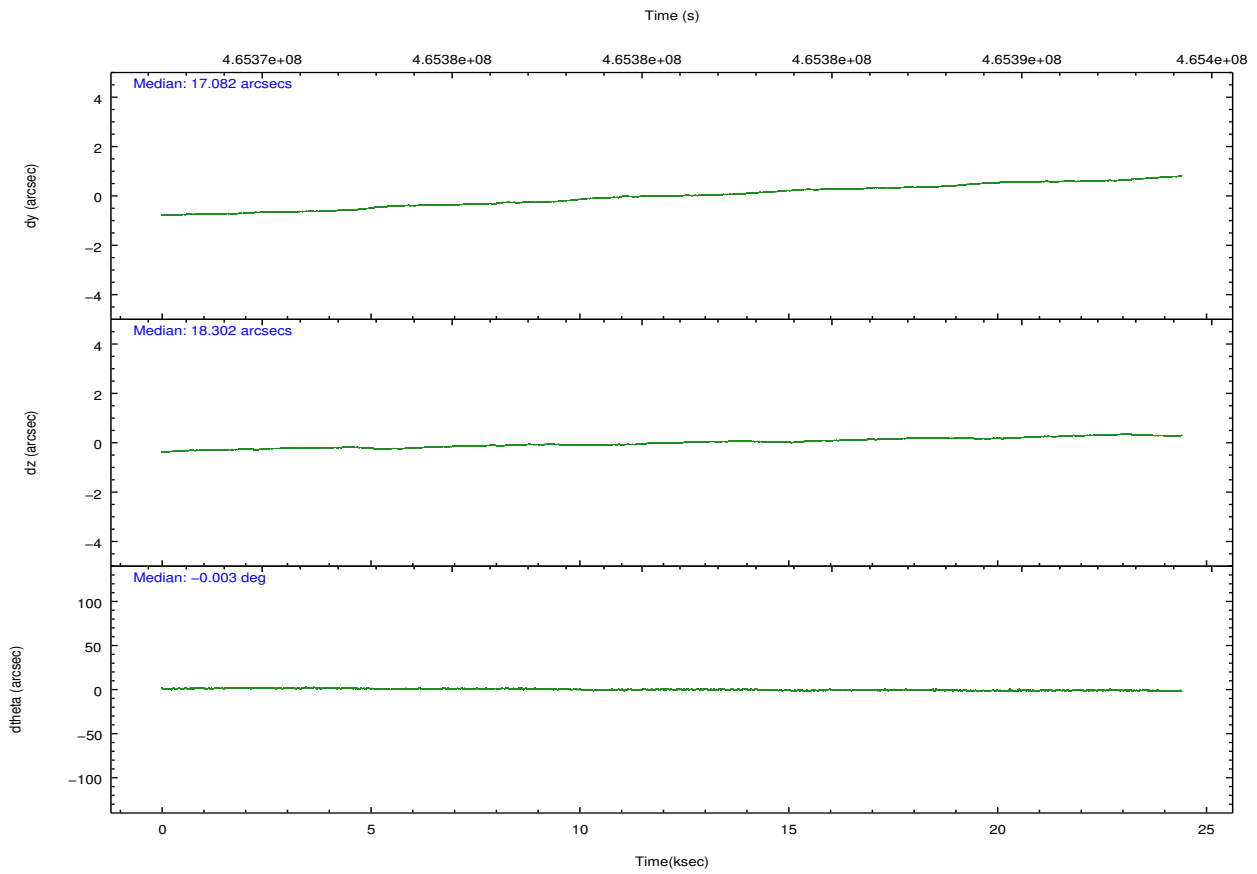
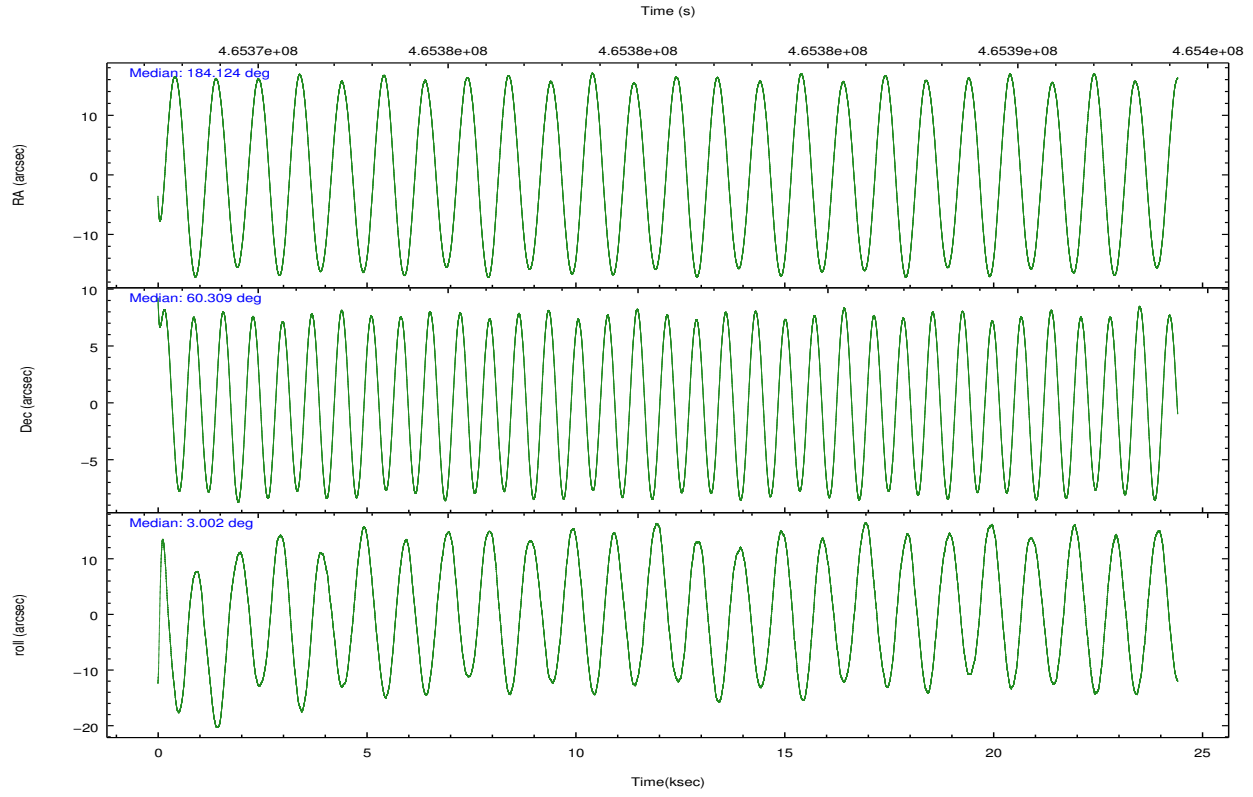
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	12992	5848	7372	24041
	5%	4%	4%	11%
grade 1 events	506	81	220	227
	0%	0%	0%	0%
grade 2 events	36468	3906	16603	13308
	16%	2%	9%	6%
grade 3 events	4030	1675	6986	10665
	1%	1%	3%	5%
grade 4 events	3805	1654	6986	9918
	1%	1%	3%	4%
grade 5 events	16217	6721	18192	10010
	7%	4%	10%	4%
grade 6 events	56104	3467	41787	15806
	24%	2%	23%	7%
grade 7 events	95712	114365	80394	120337
	42%	83%	45%	58%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	184.078407	184.1242767820445	Subarray requested	NONE	NONE
[deg] Pointing Dec	60.293957	60.30918340899236	Alternating exposures requested	N	N
[deg] Pointing Roll	2.884455	3.001223694011879	[s] Primary exposure time	0.000000	3.1
[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)	465368729.184000	465367063.49762			
Observation start date	2012-09-30T05:04:22	2012-09-30T04:37:43			
[s] Observation end time (MET)	465392981.184000	465393212.27402			
Observation end date	2012-09-30T11:48:34	2012-09-30T11:53:32			
Read mode	TIMED	TIMED			

2.3 Aspect





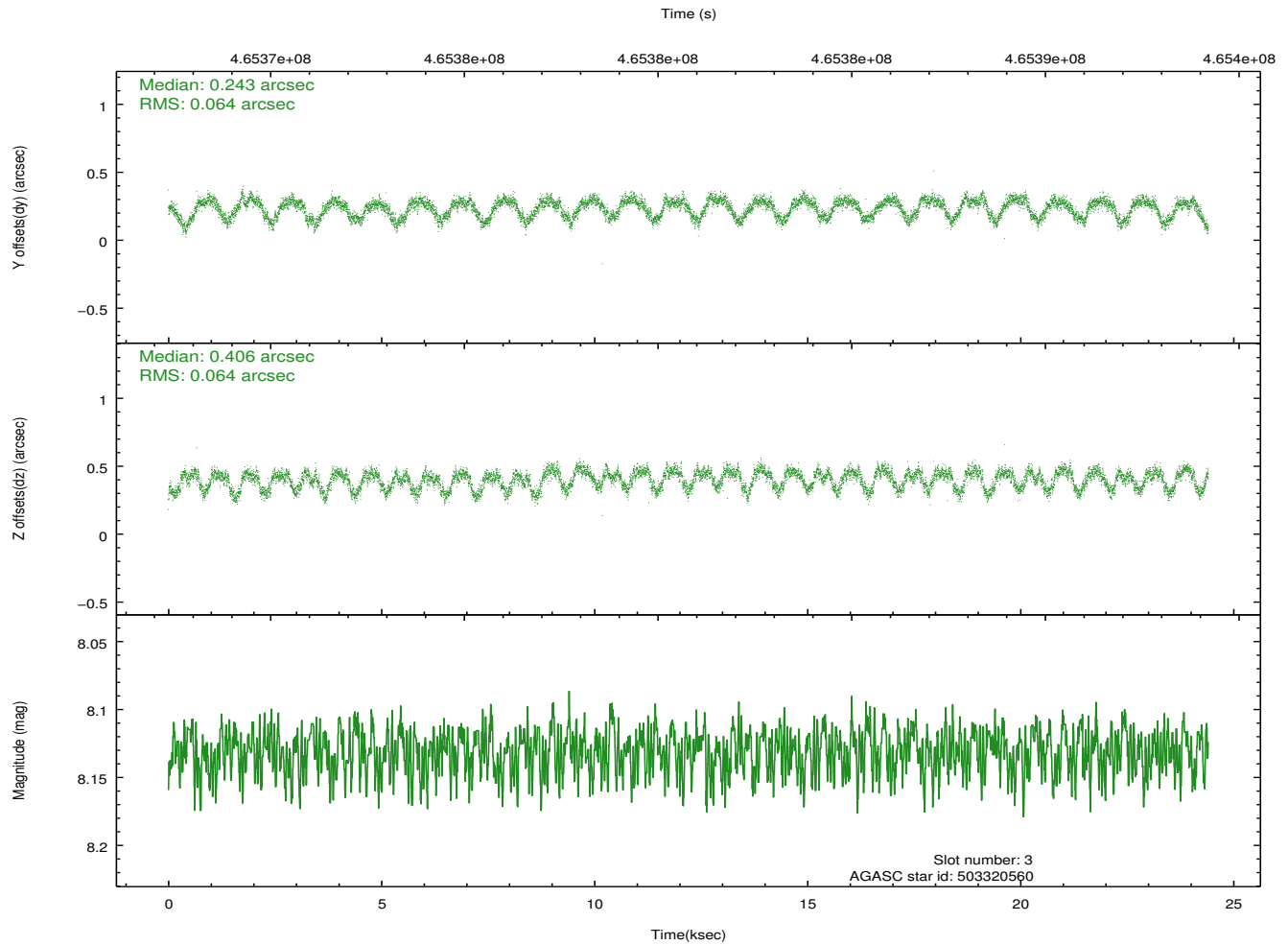
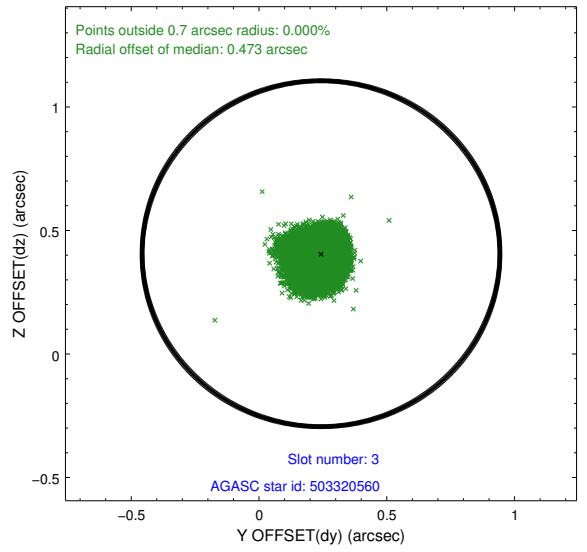
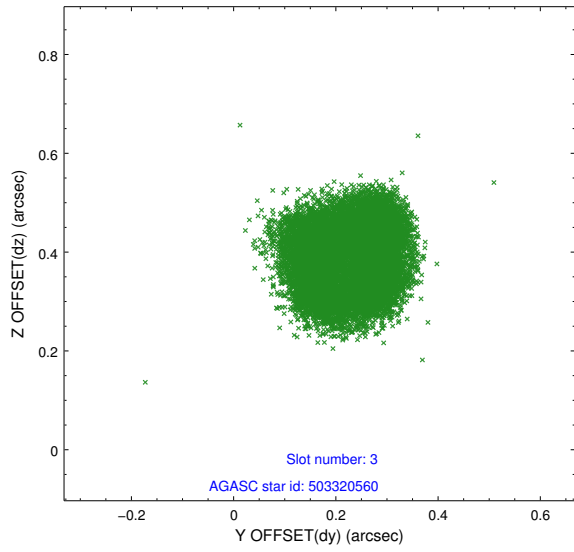
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	5954	-0.071	-0.034	0.008	0.013	0.000000	0.000000	-770.20	-1739.73
1	FID		ACIS-S-4	7.01	5953	0.174	0.043	0.012	0.029	0.000000	0.000000	2143.30	168.64
2	FID		ACIS-S-5	7.04	5954	-0.135	-0.001	0.013	0.024	0.000000	0.000000	-1822.91	162.49
3	GUIDE	used	503320560	8.13	11909	0.243	0.406	0.099	0.147	183.257762	59.720160	-1590.89	-1978.57
4	GUIDE	used	544610704	7.62	11907	-0.134	-0.349	0.070	0.112	184.596174	60.356139	932.24	180.37
5	GUIDE	used	544612144	7.94	11905	0.020	-0.061	0.061	0.104	183.528550	60.449646	-946.57	613.18
6	GUIDE	used	544612184	9.72	11864	-0.271	0.062	0.280	0.424	184.764745	60.723063	1284.85	1488.53
7	GUIDE	used	544608544	8.90	11903	0.135	-0.051	0.135	0.237	183.261627	60.409880	-1428.32	498.86

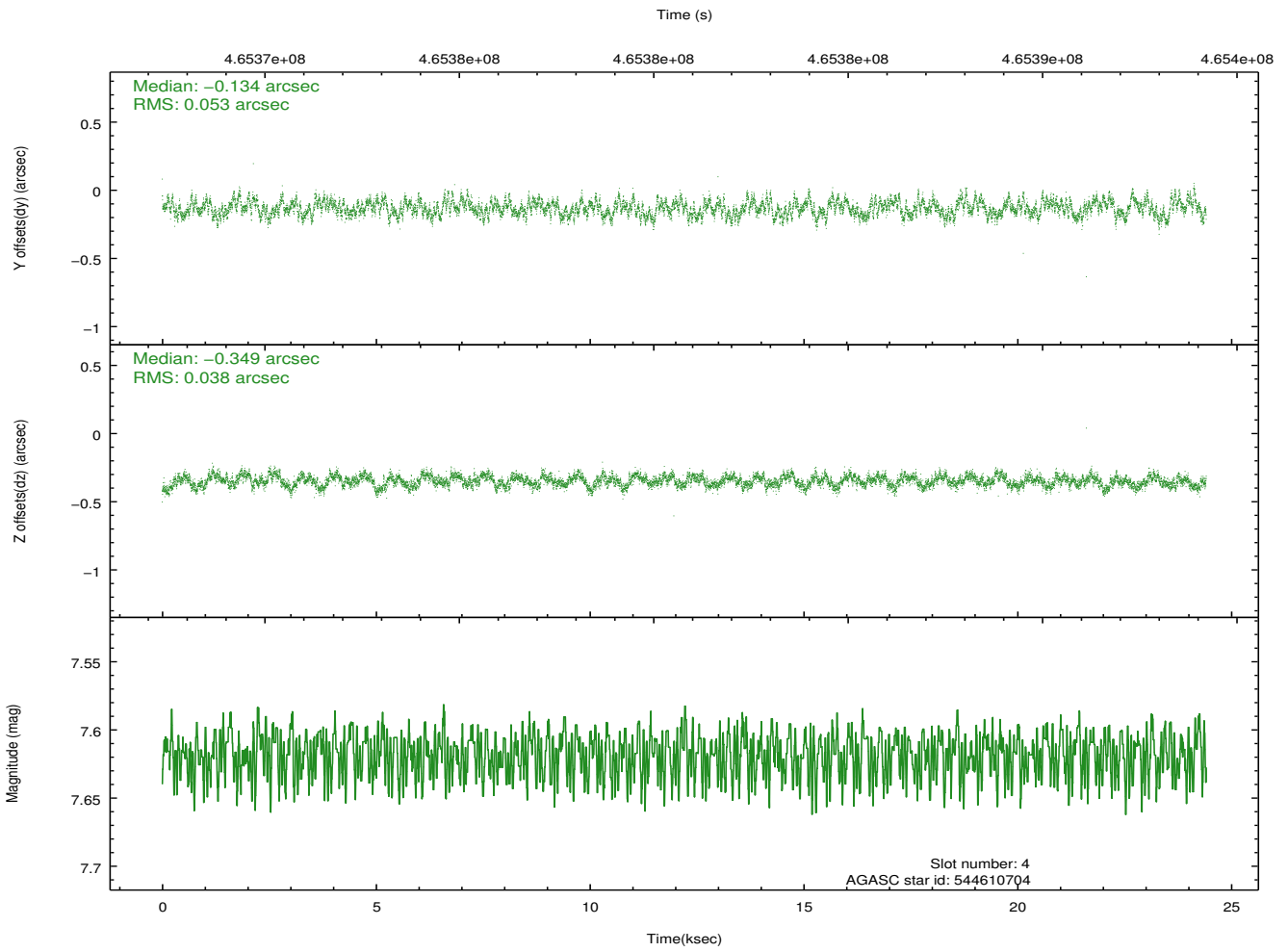
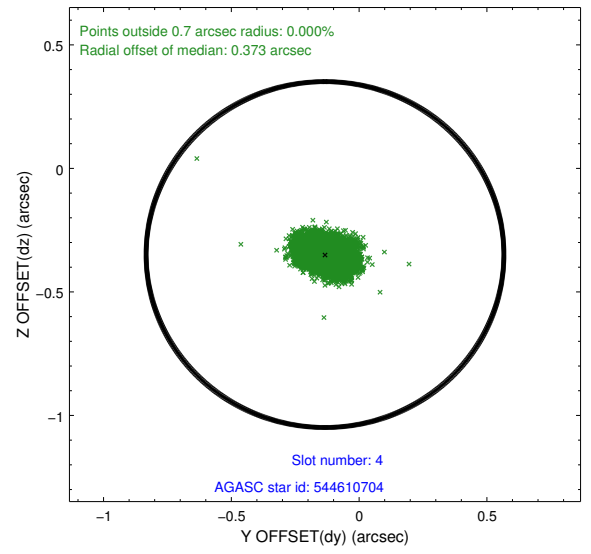
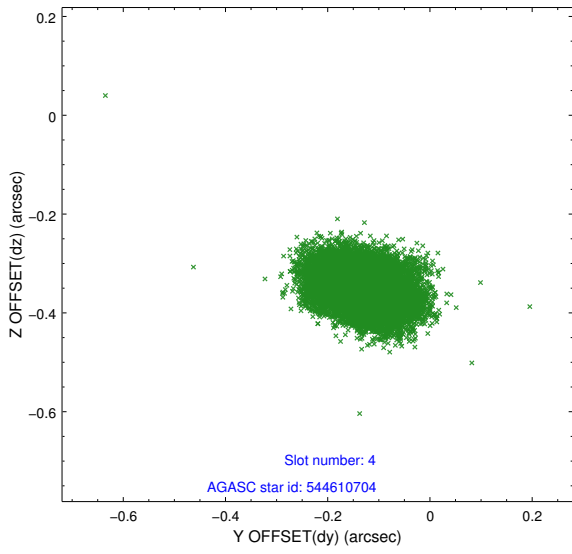
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2.4 Star Slots

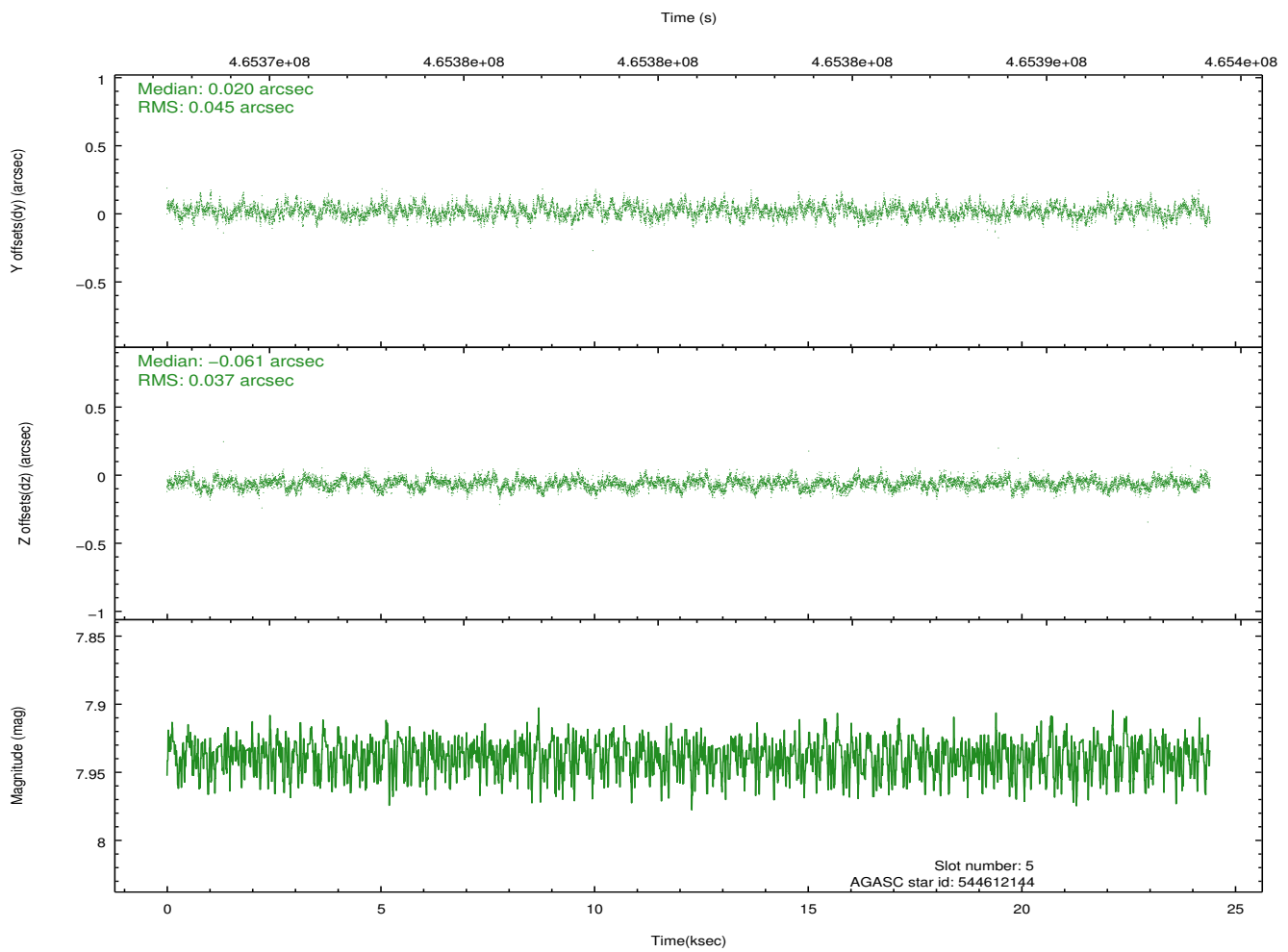
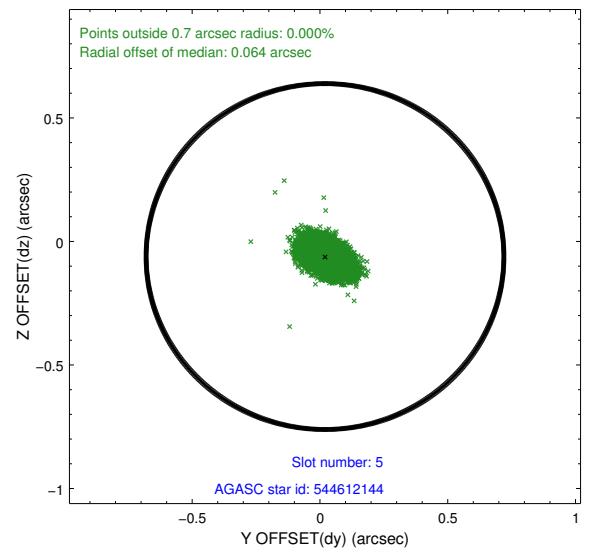
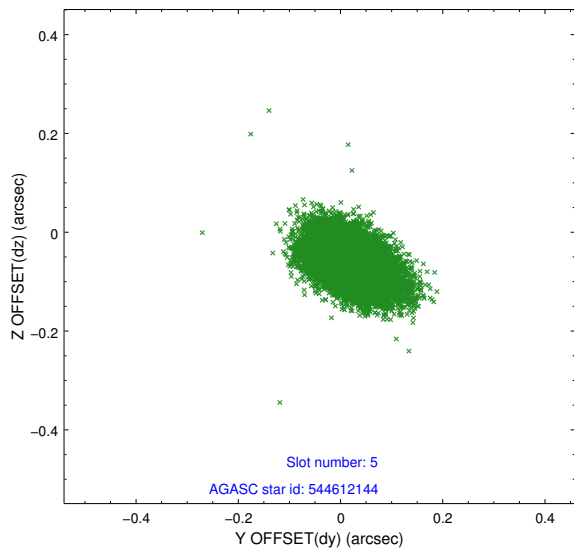
2.4.1 Slot 3



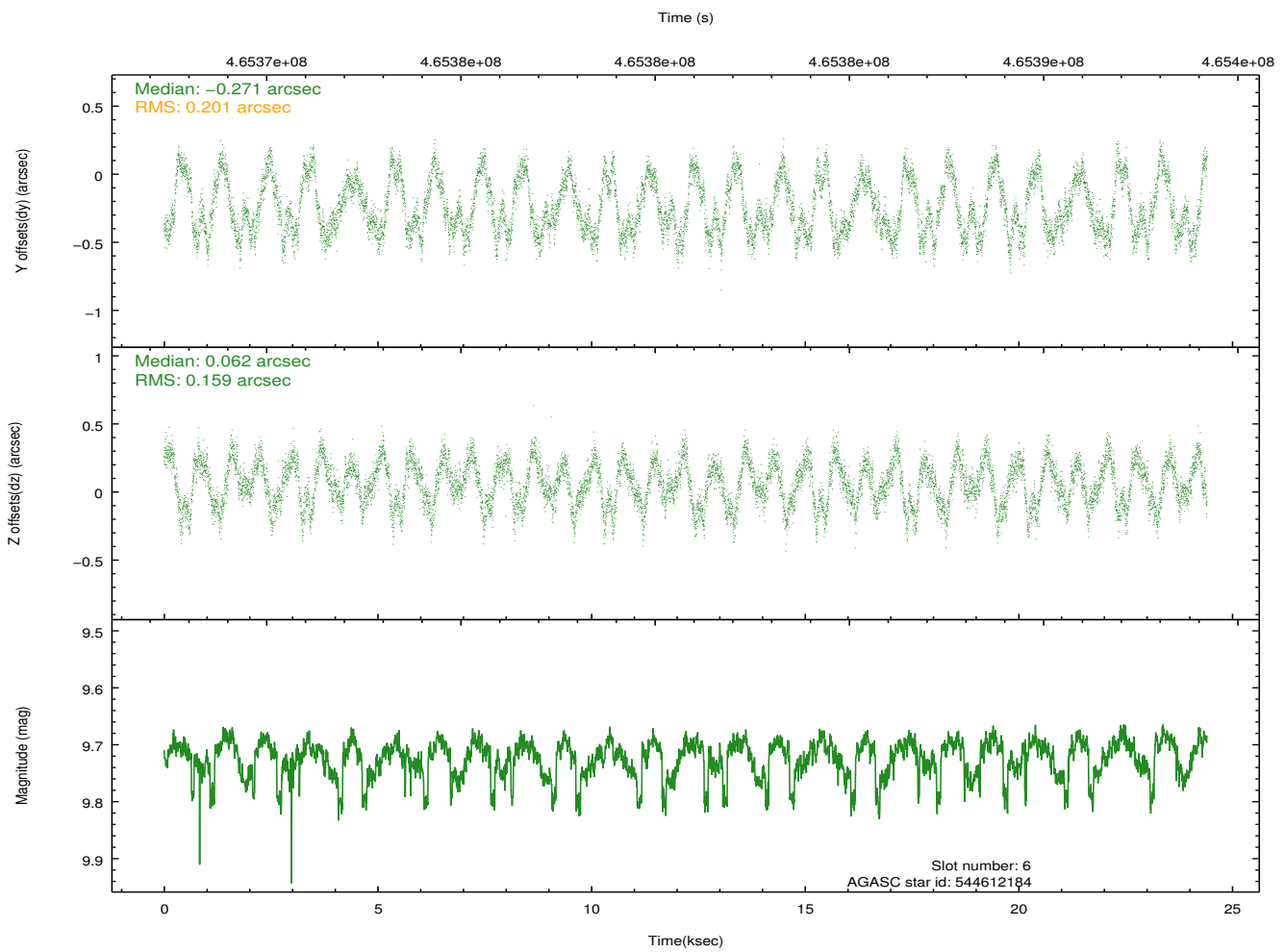
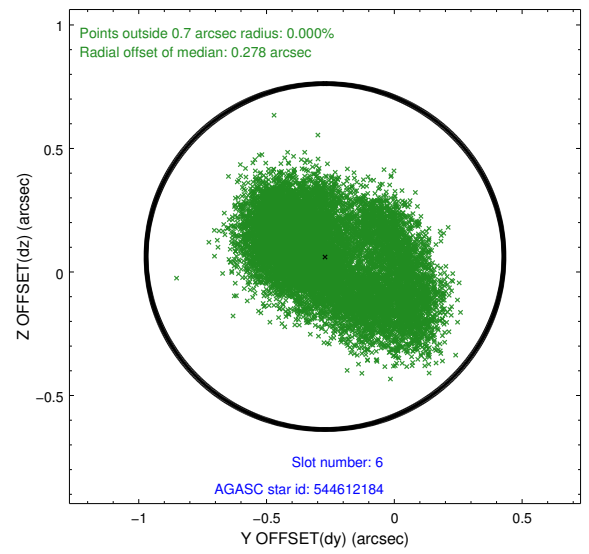
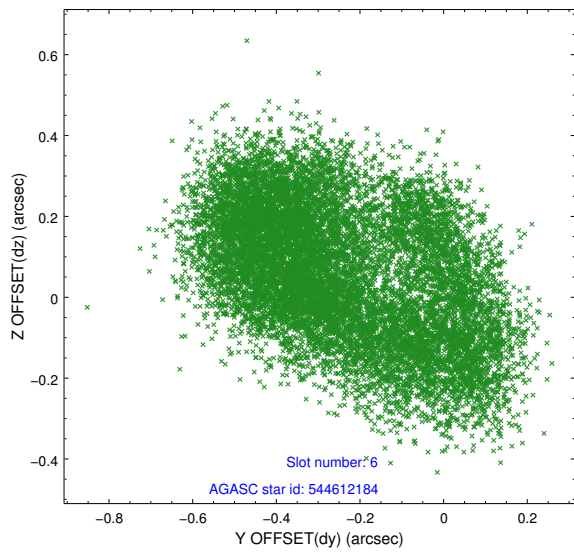
2.4.2 Slot 4



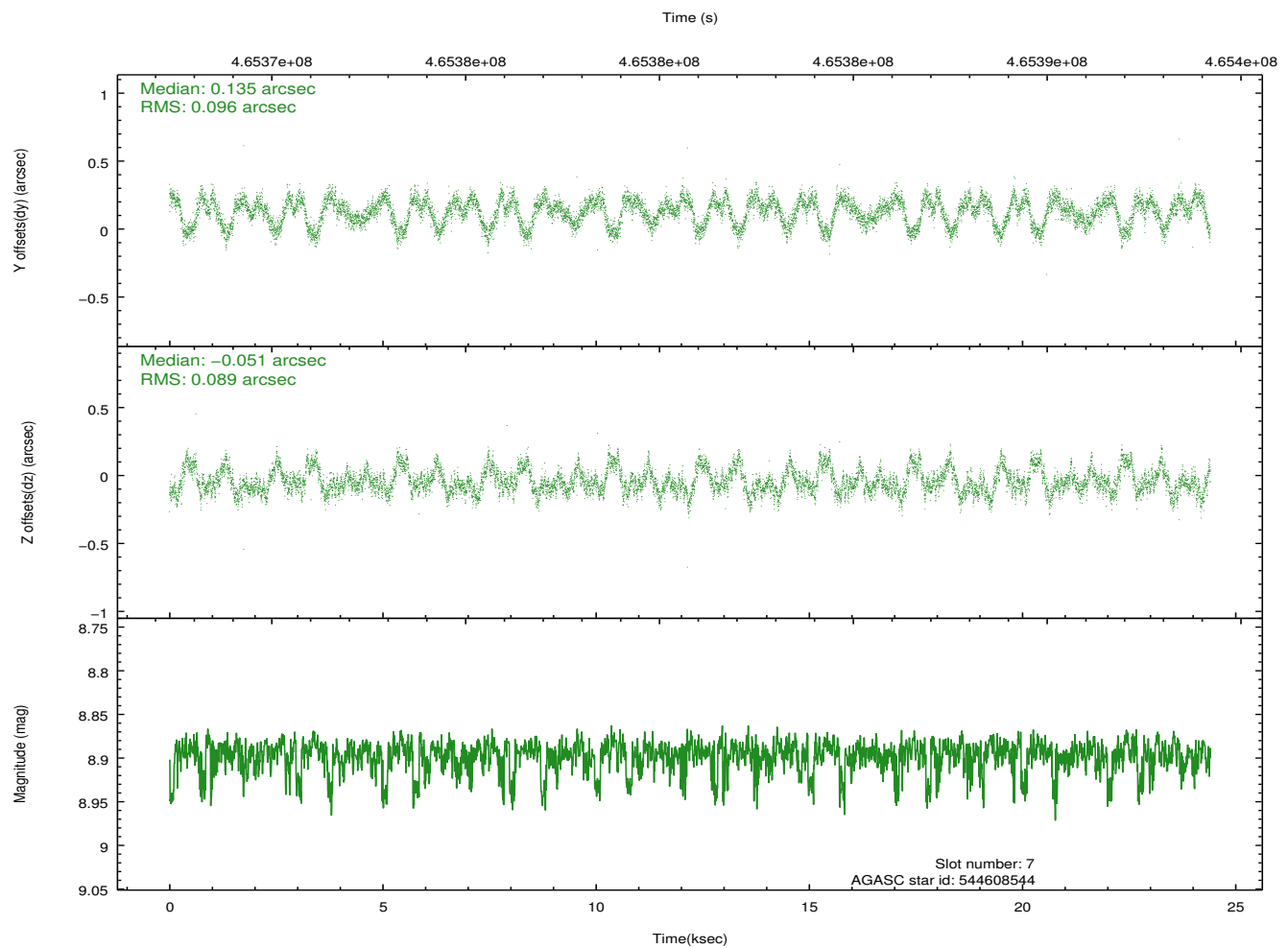
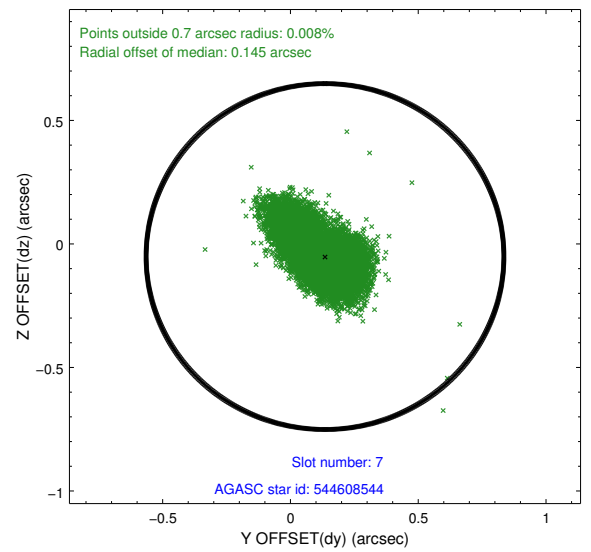
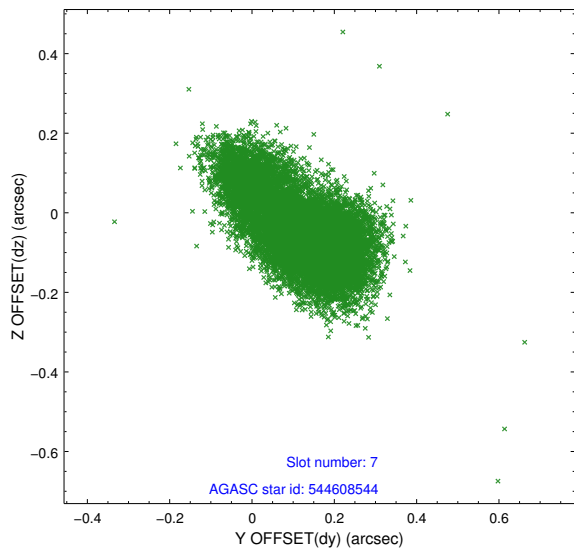
2.4.3 Slot 5



2.4.4 Slot 6

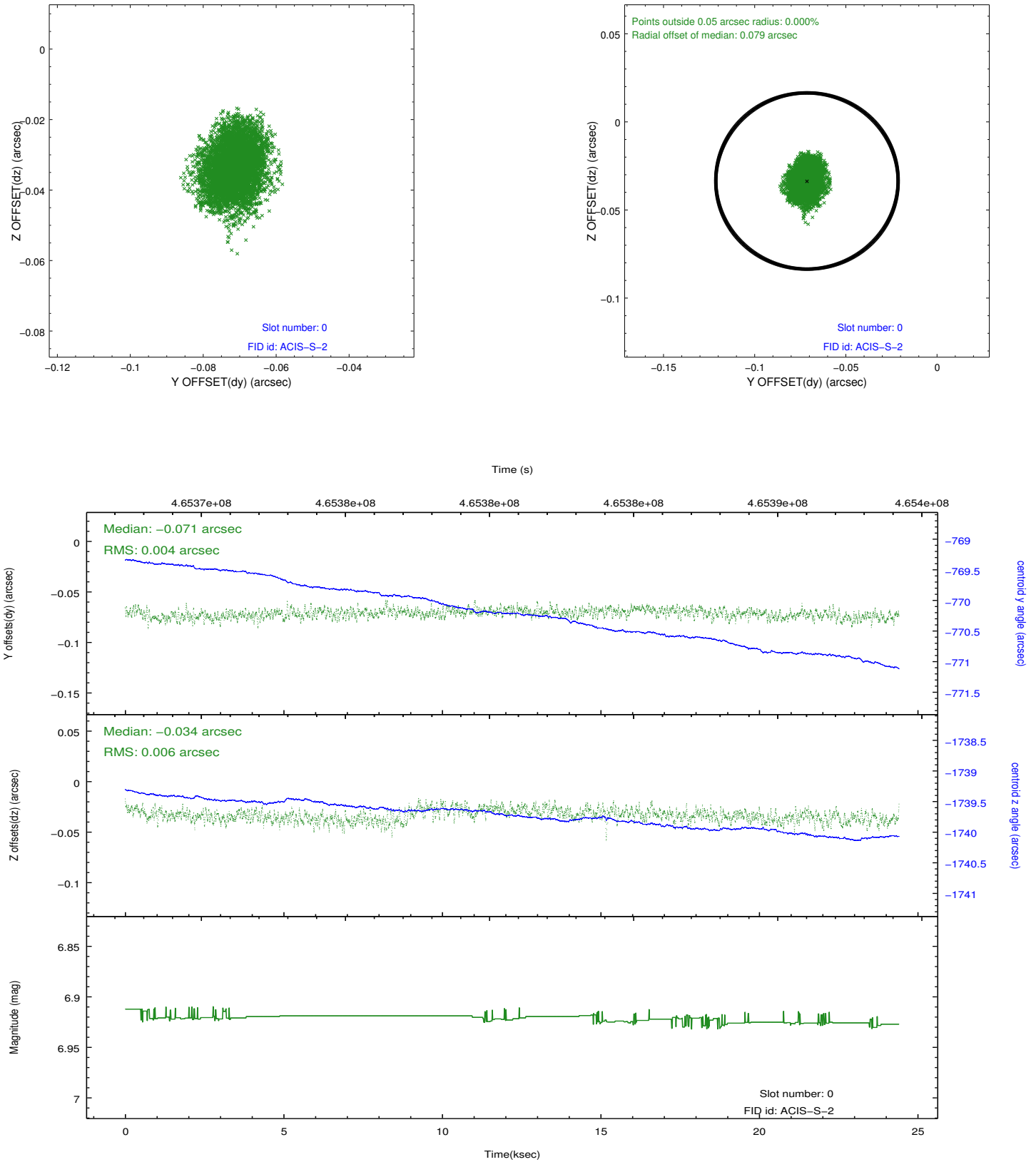


2.4.5 Slot 7

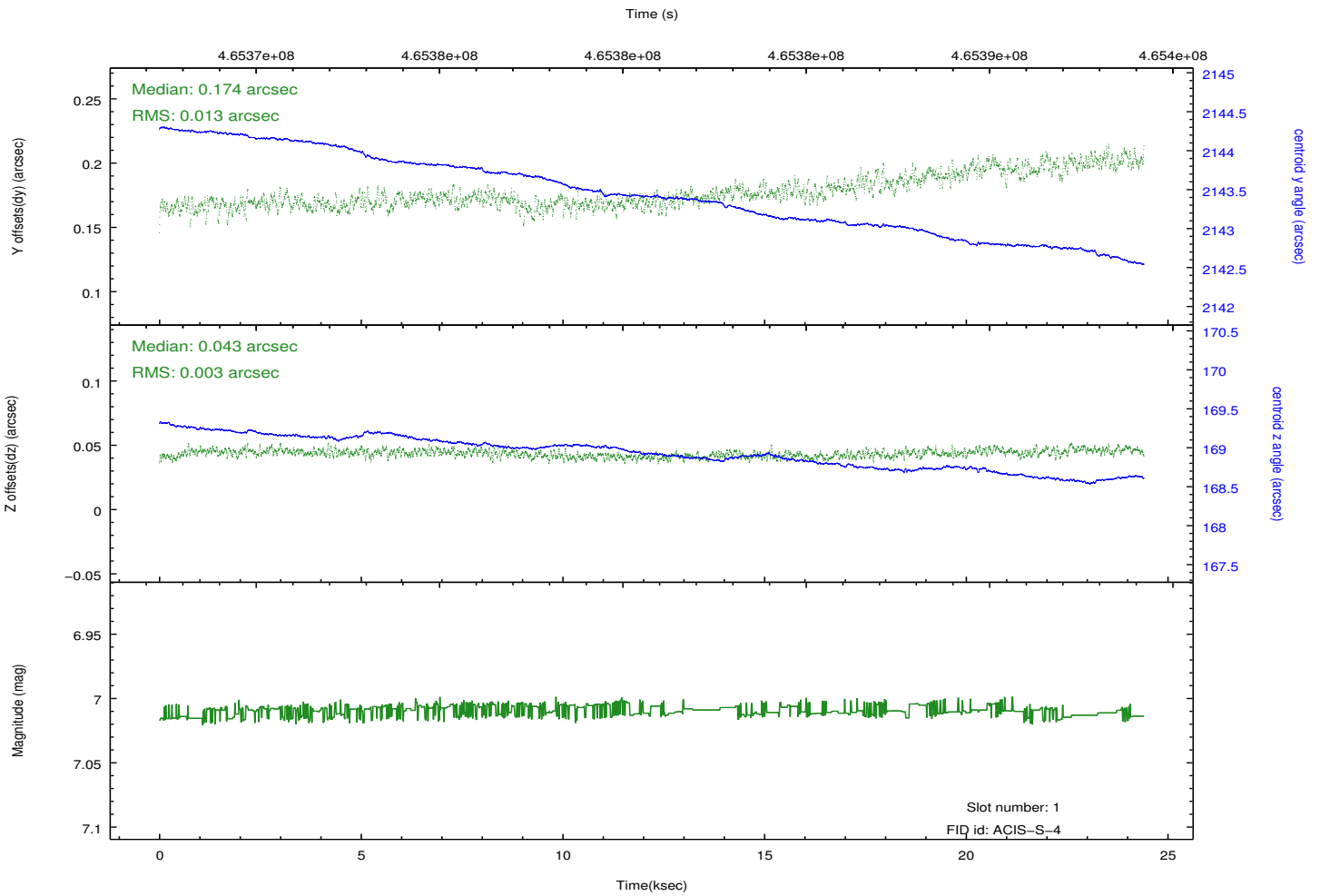
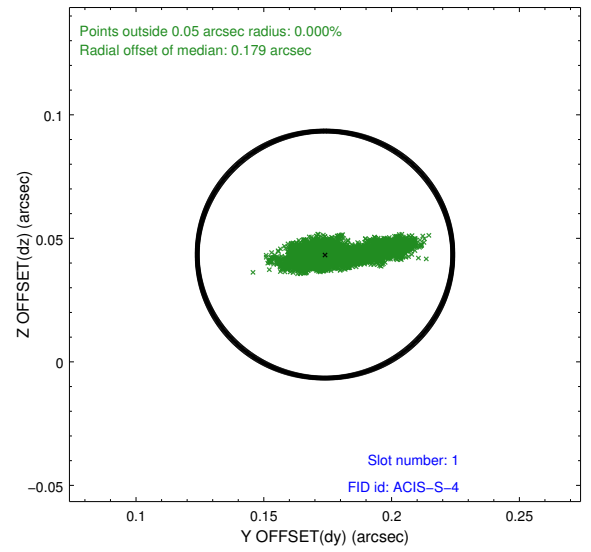
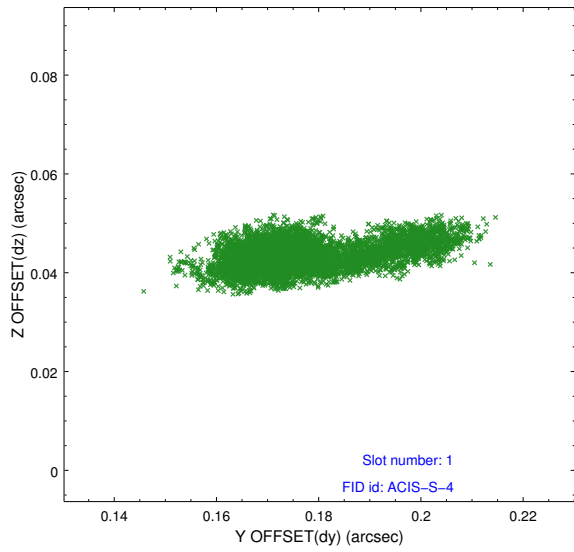


2.5 FID Slots

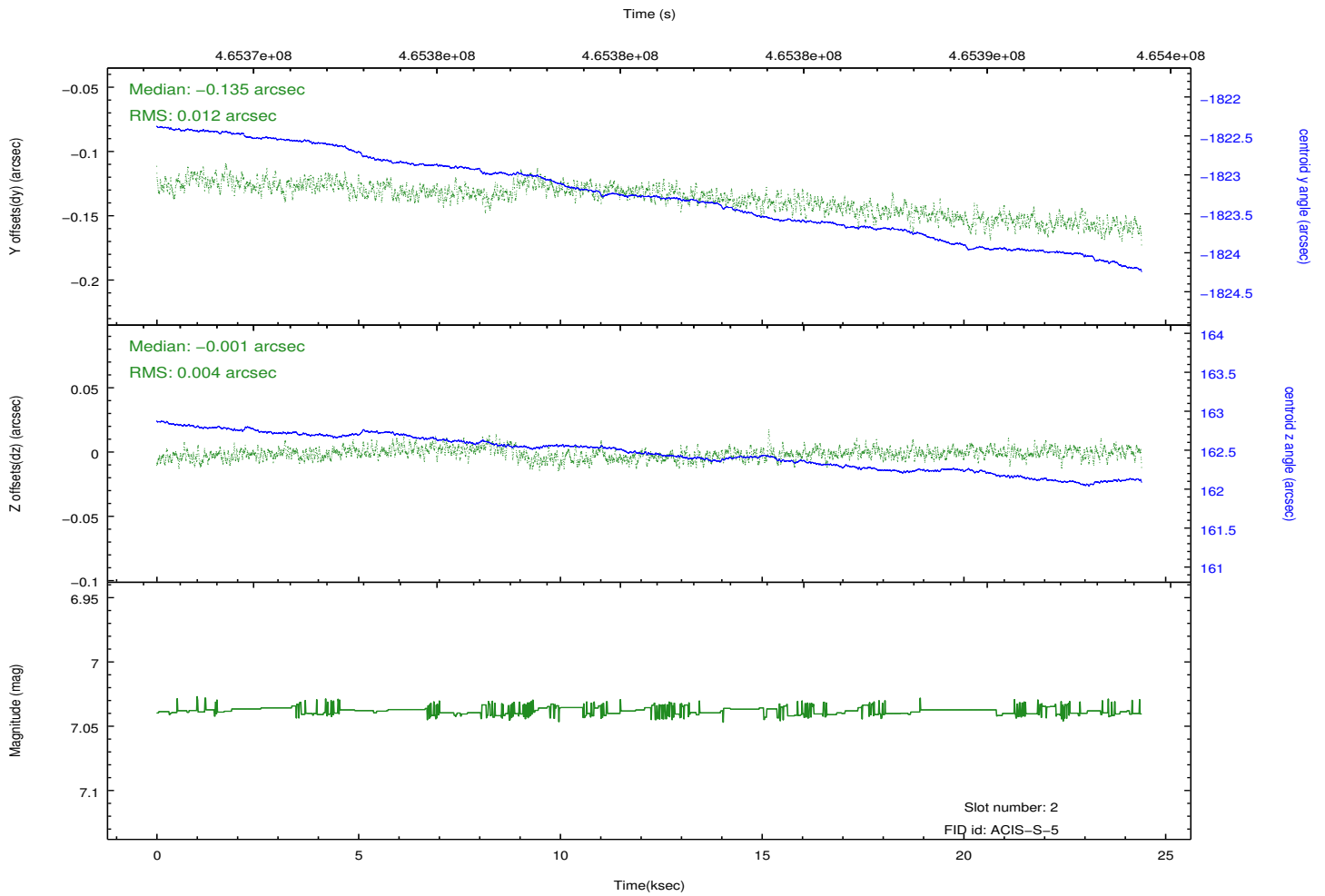
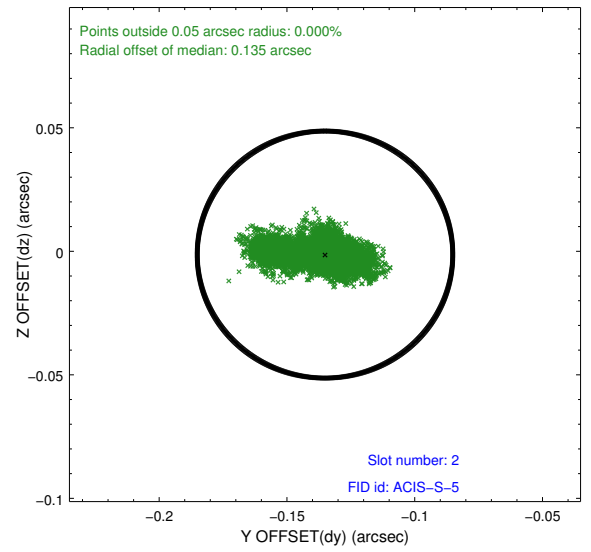
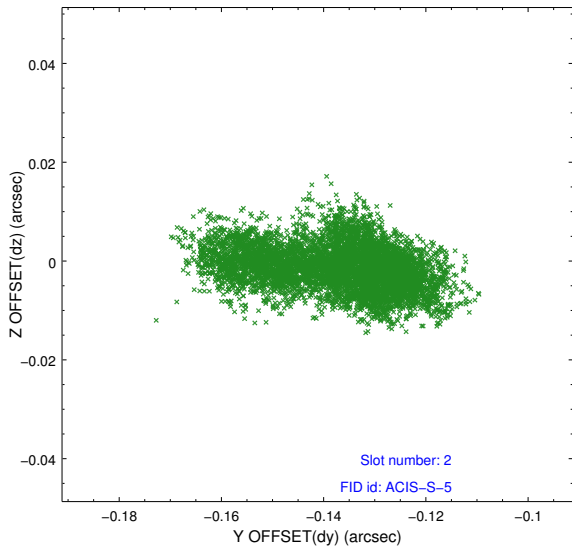
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.325700187087

A.2 Comments

Joint proposal with NRAO.

Observation coordinated with EVLA.

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.