

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 17023 - L2 Version 1
Chandra X-Ray Center

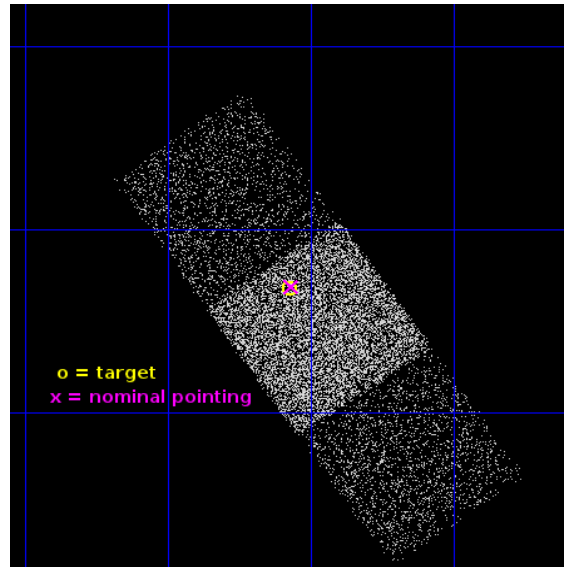
L2 Processing Date : Jan 4 2016

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1 Front

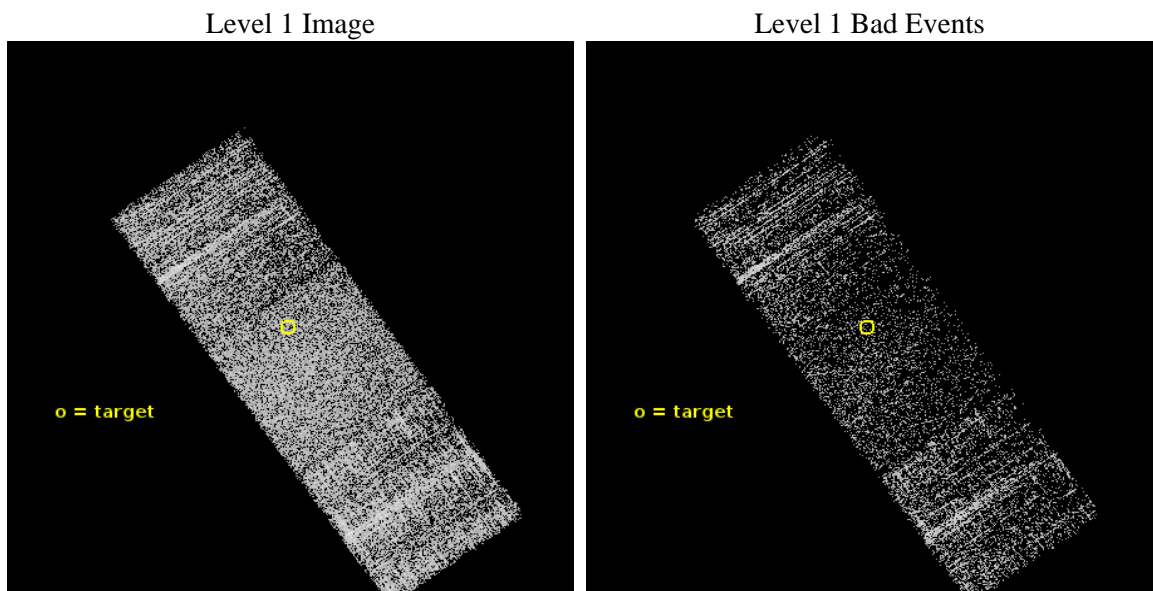
seq_num	703027	Sequence number
obs_id	17023	Observation id
title	Shielding Gas Variations in Transforming Broad Absorption Line Quasars	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J0859+0426	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	134.769167	Observer's specified target RA [deg]
dec_targ	4.446611	Observer's specified target Dec [deg]
ra_nom	134.76722458682	Nominal RA [deg]
dec_nom	4.4481040055155	Nominal Dec [deg]
roll_nom	55.082713138971	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3974.2000306845	Sum of GTIs [s]
livetime	3922.2741815201	Livetime [s]
ontime6	3974.2000306845	Sum of GTIs [s]
ontime7	3974.2000306845	Sum of GTIs [s]
ontime8	3974.2000306845	Sum of GTIs [s]
l2events	15013	Number of level 2 events



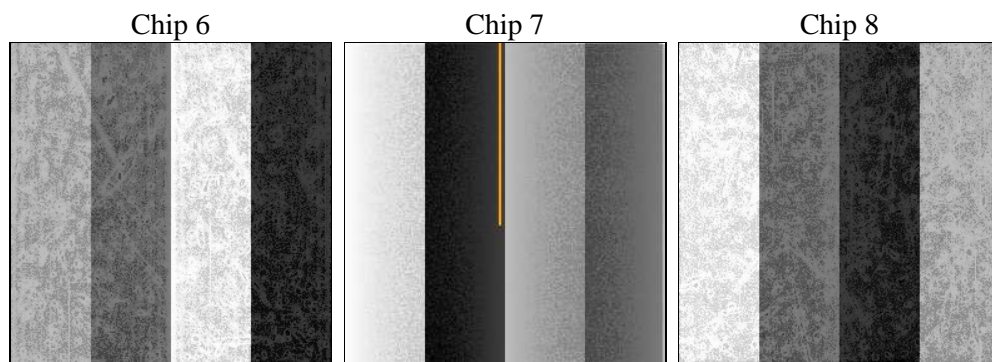
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3900.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	3974.2000306845	Sum of GTIs [s]
caldsver	4.7.0	 	ontime6	3974.2000306845	Sum of GTIs [s]
date	2016-01-05T00:00:25	Date and time of file creation	ontime7	3974.2000306845	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3974.2000306845	Sum of GTIs [s]
			l1events	72752	Number of level 1 events

2.1.4 Events

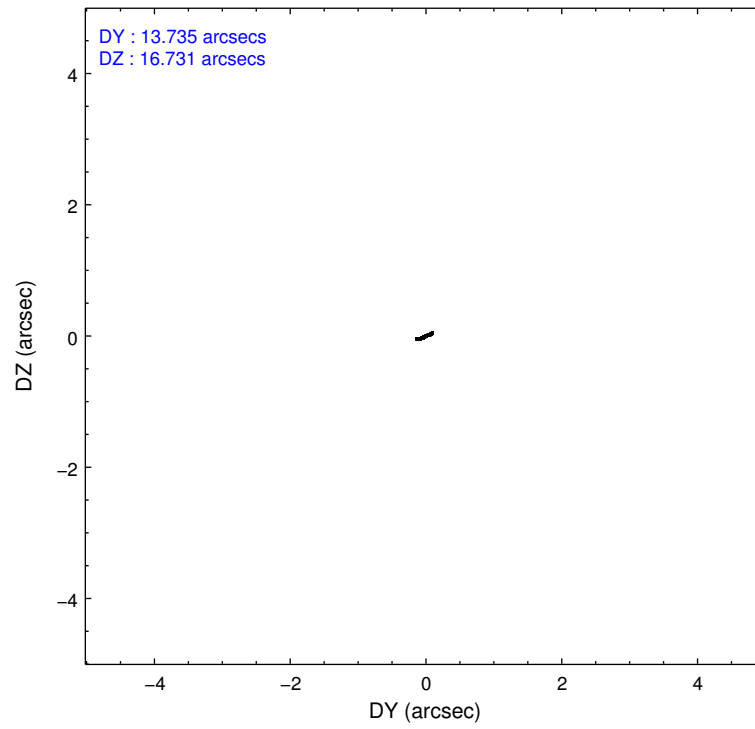
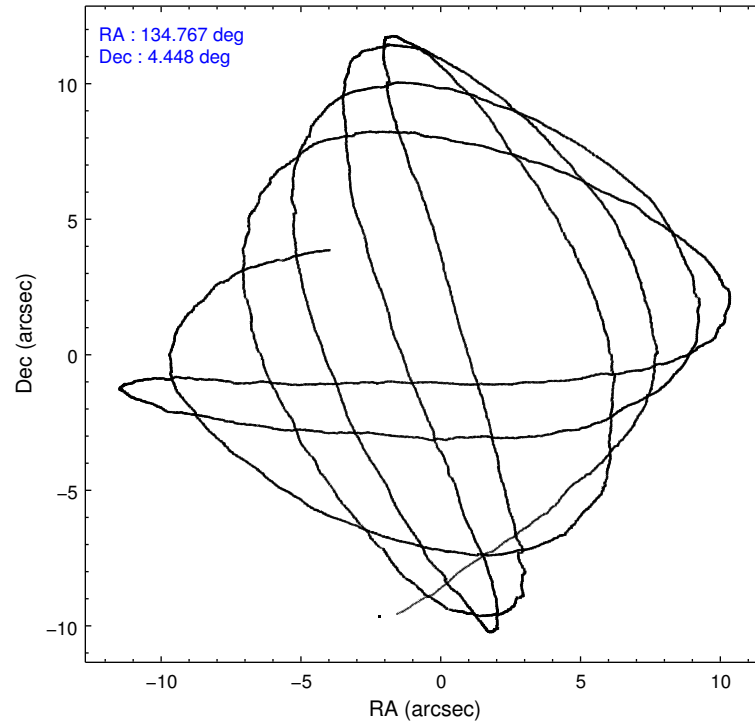
	ccd 6	ccd 7	ccd 8
level 1 events	20940	23956	27856
rejected events	18532	13006	19957
rejected %	88%	54%	71%

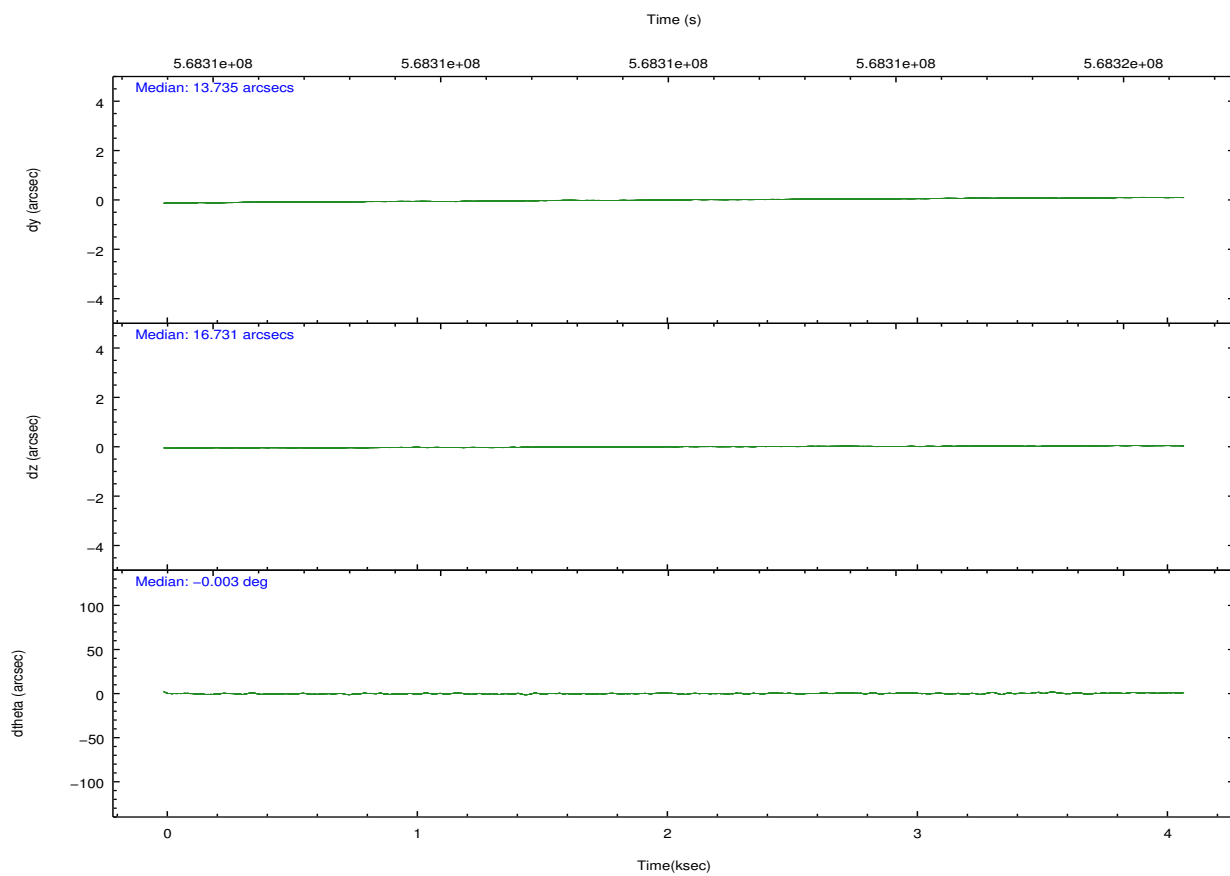
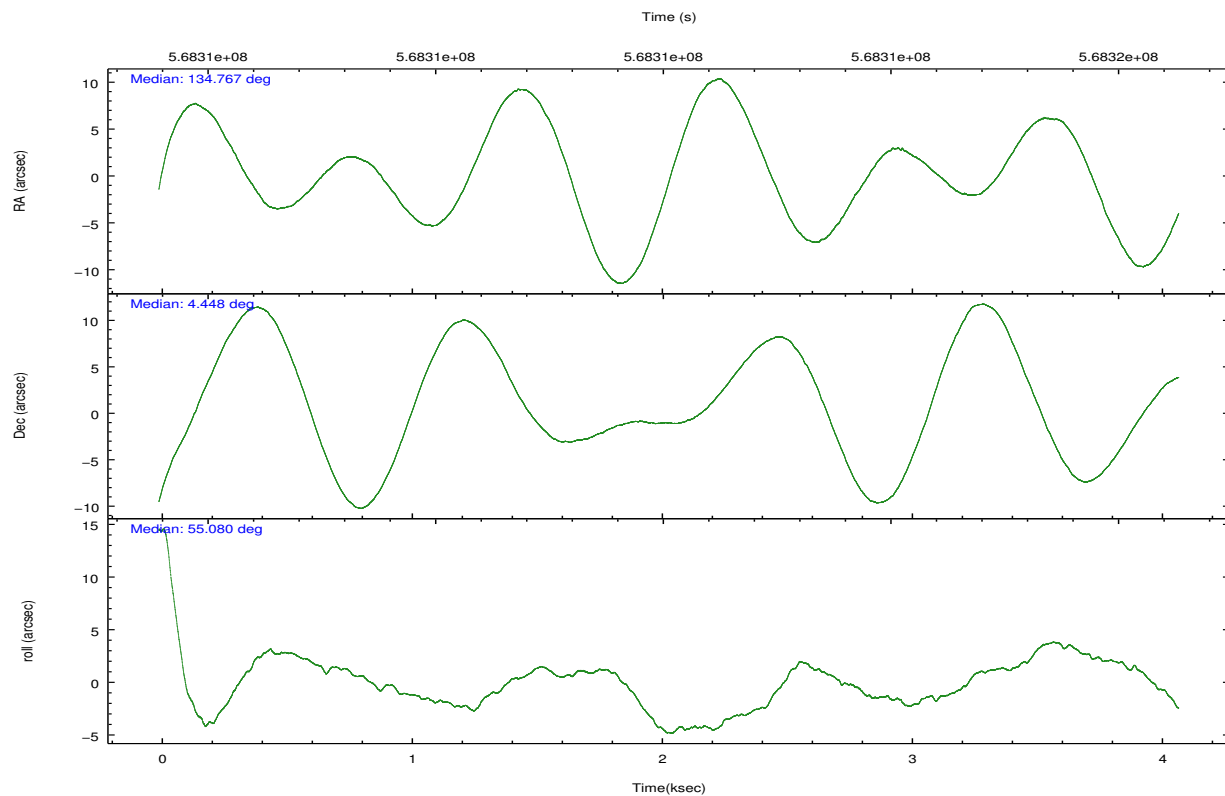
	ccd 6	ccd 7	ccd 8
grade 0 events	788	946	2234
	3%	3%	8%
grade 1 events	11	40	27
	0%	0%	0%
grade 2 events	577	2403	1864
	2%	10%	6%
grade 3 events	207	865	878
	0%	3%	3%
grade 4 events	234	875	856
	1%	3%	3%
grade 5 events	873	2413	1318
	4%	10%	4%
grade 6 events	606	5878	2074
	2%	24%	7%
grade 7 events	17644	10536	18605
	84%	43%	66%

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	134.765284	134.767224586821	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.420724	4.448104005515455	Alternating exposures requested	N	N
[deg] Pointing Roll	54.926187	55.08271313897141	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	568311142.184000	568310166.70785			
Observation start date	2016-01-04T16:11:14	2016-01-04T15:56:06			
[s] Observation end time (MET)	568315042.184000	568315899.53318			
Observation end date	2016-01-04T17:16:14	2016-01-04T17:31:39			
Read mode	TIMED	TIMED			

2.3 Aspect



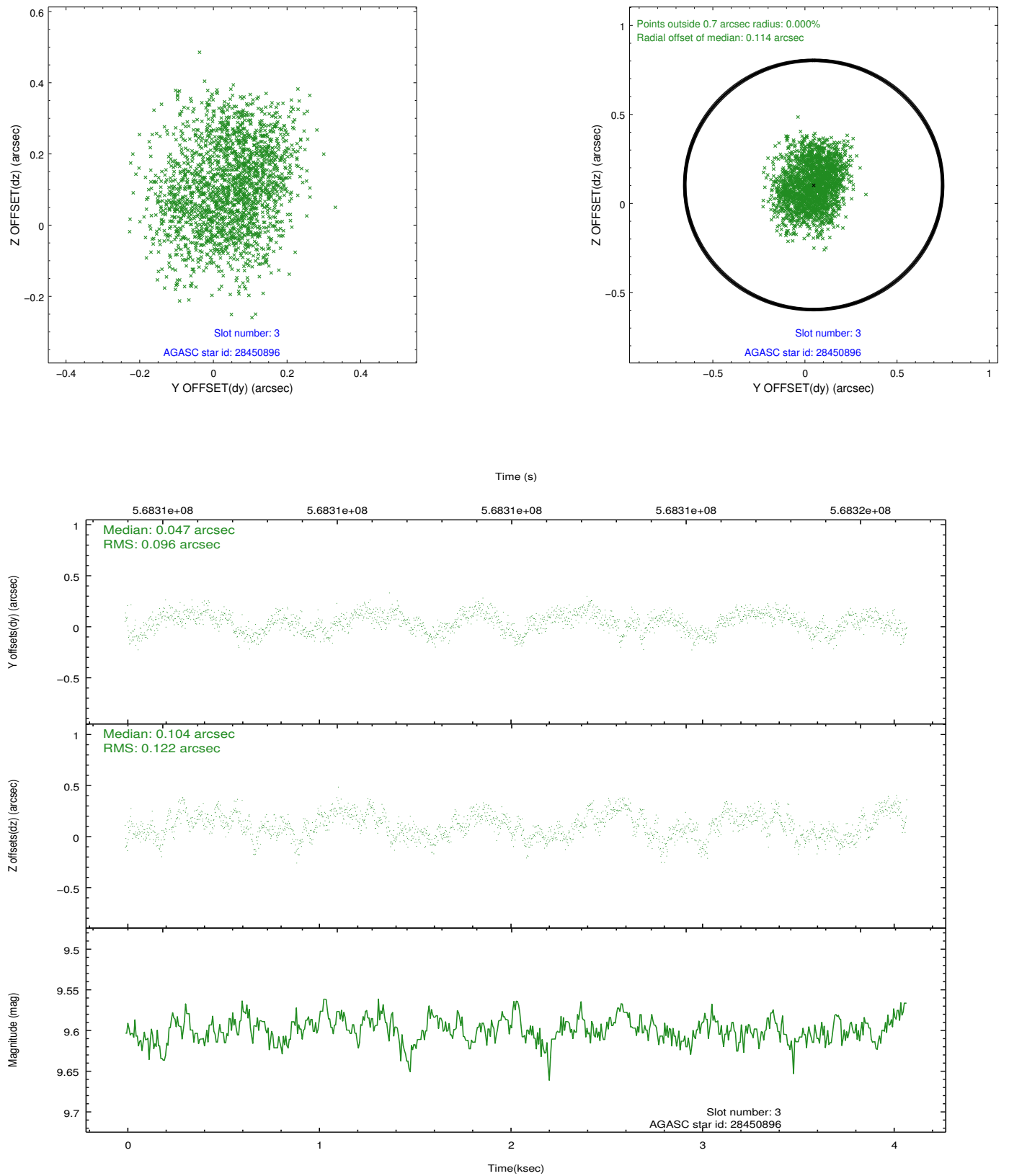


Slot Statistics

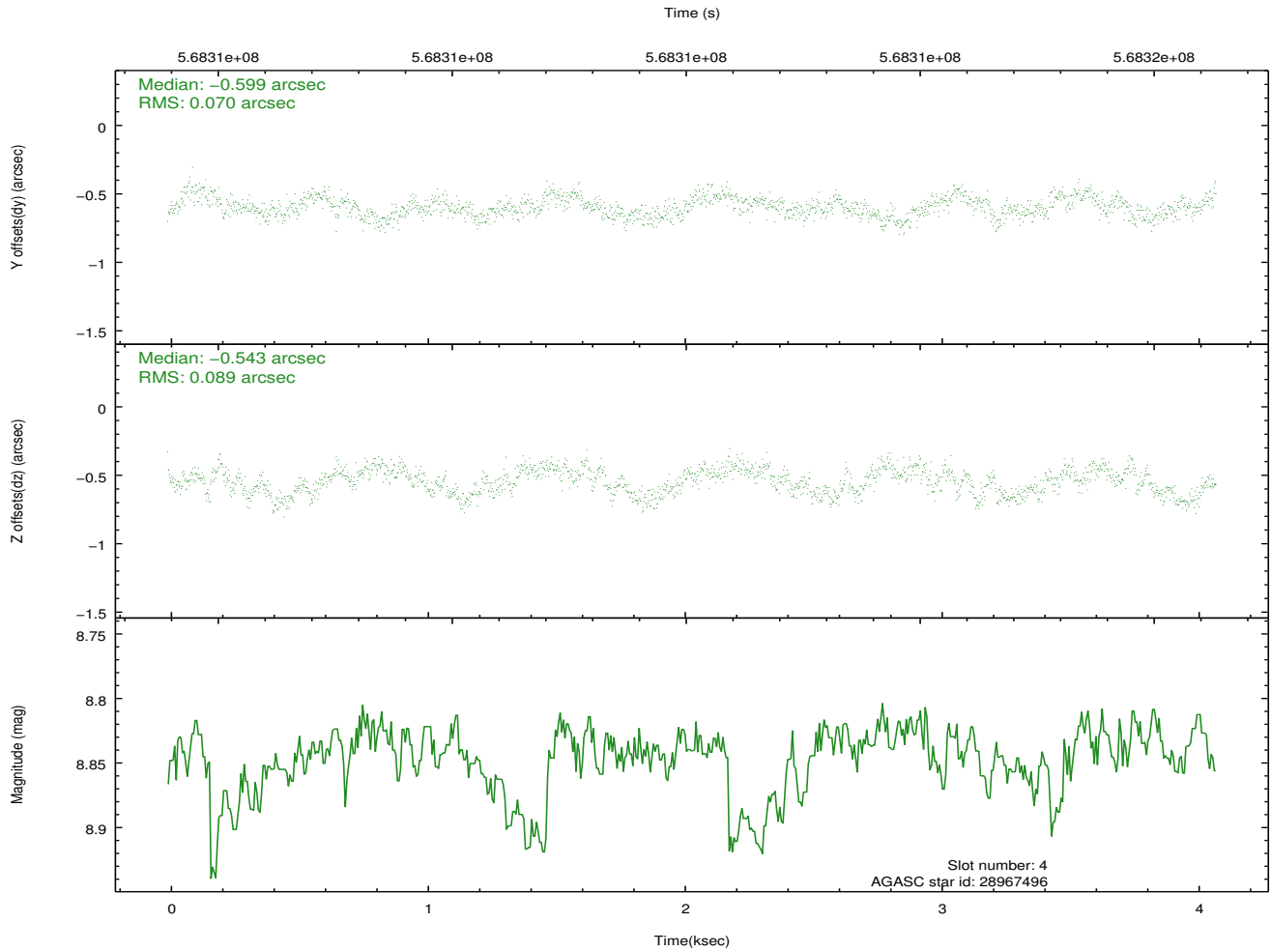
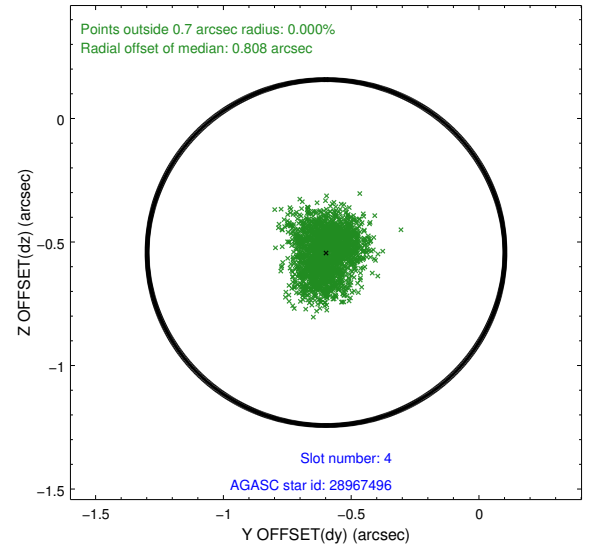
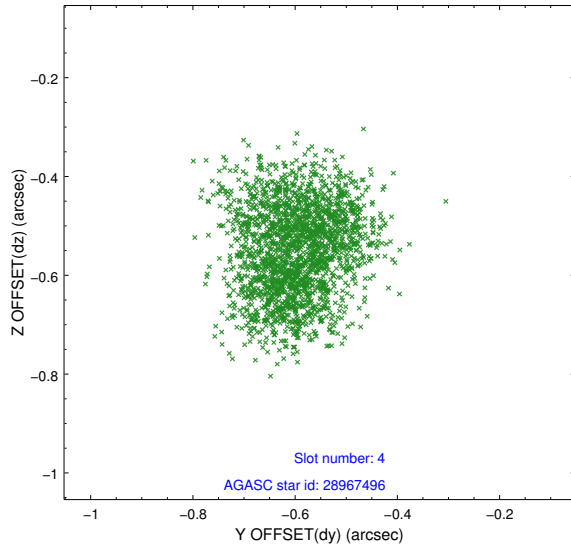
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	995	-0.216	-0.152	0.007	0.014	0.000000	0.000000	-766.91	-1738.29
1	FID		ACIS-S-4	7.22	995	0.266	0.104	0.007	0.013	0.000000	0.000000	2146.18	168.81
2	FID		ACIS-S-6	7.37	995	-0.079	0.056	0.007	0.012	0.000000	0.000000	397.21	807.93
3	GUIDE	used	28450896	9.60	1988	0.047	0.104	0.167	0.260	134.901407	3.634575	-2034.65	-2026.66
4	GUIDE	used	28967496	8.84	1991	-0.599	-0.543	0.125	0.189	134.751727	5.186935	2228.31	1623.36
5	GUIDE	used	28968776	8.66	1989	-0.053	-0.365	0.093	0.152	134.368720	4.431520	-786.41	1187.33
6	GUIDE	used	30029216	9.40	1991	0.329	0.340	0.144	0.229	135.016082	3.653441	-1742.80	-2323.03
7	GUIDE	used	30027960	9.39	1987	0.283	0.473	0.141	0.225	135.038950	3.632264	-1758.01	-2436.60

2.4 Star Slots

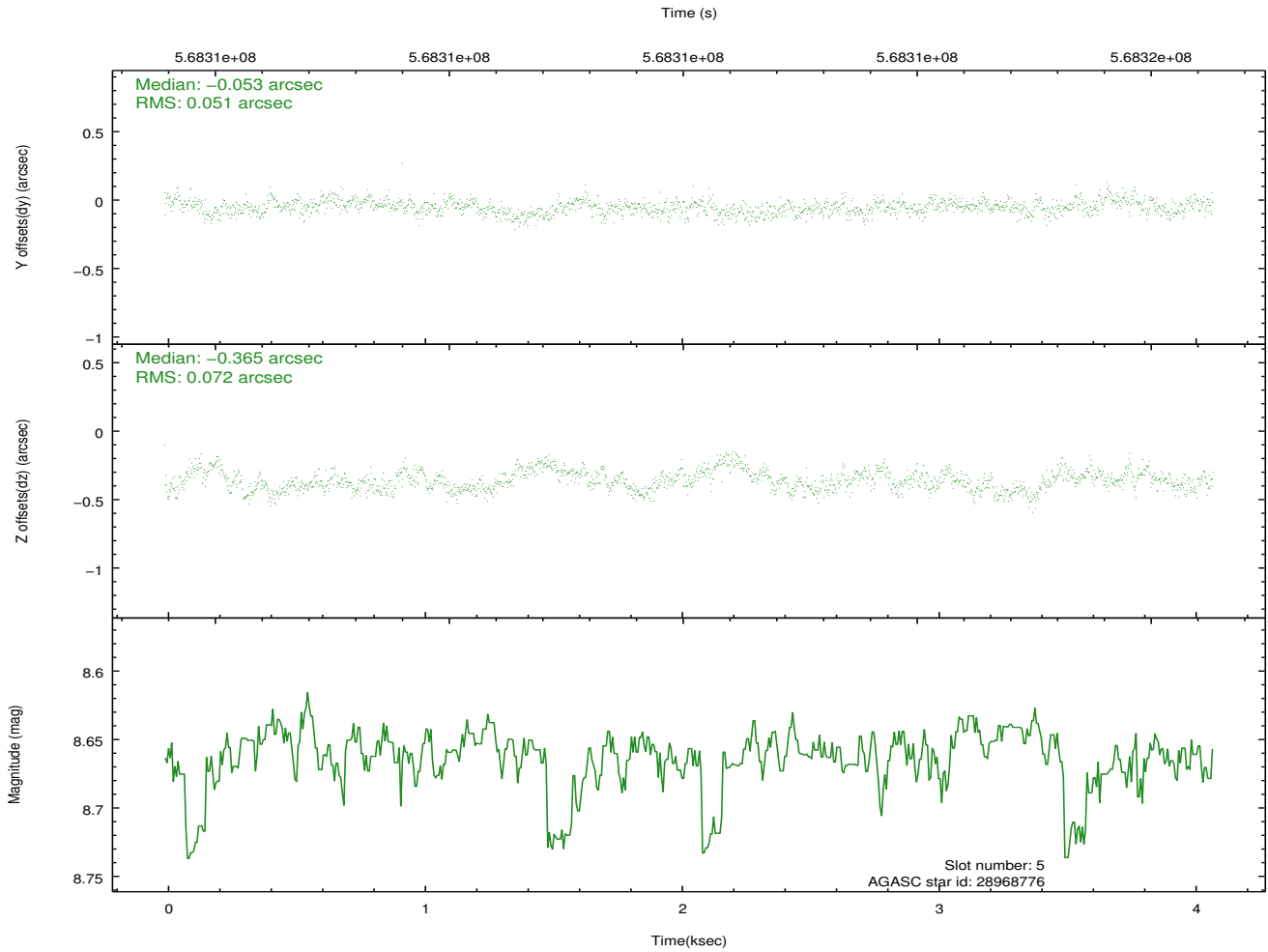
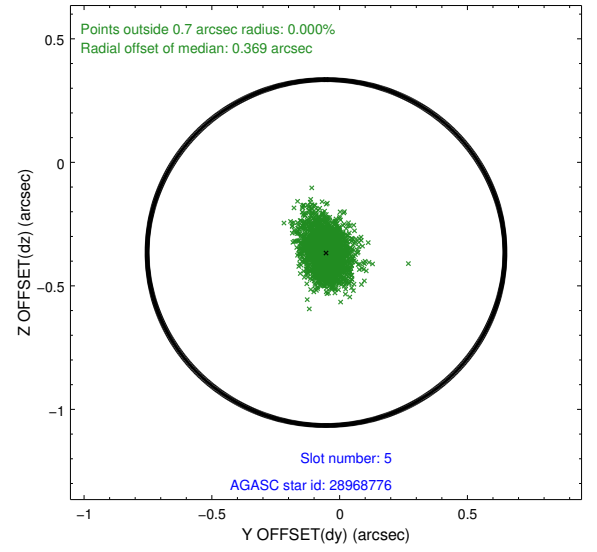
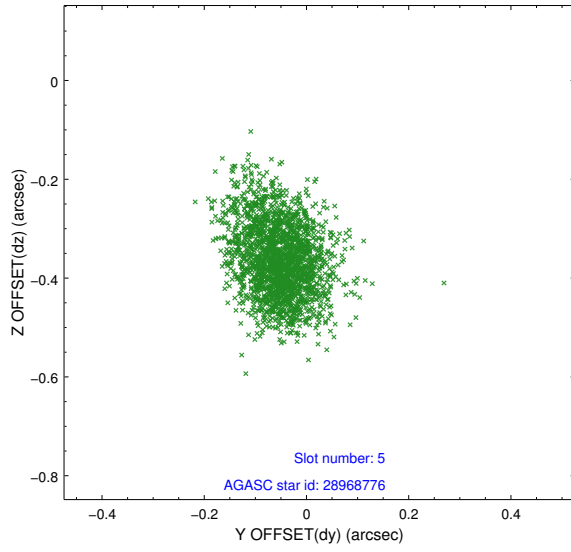
2.4.1 Slot 3



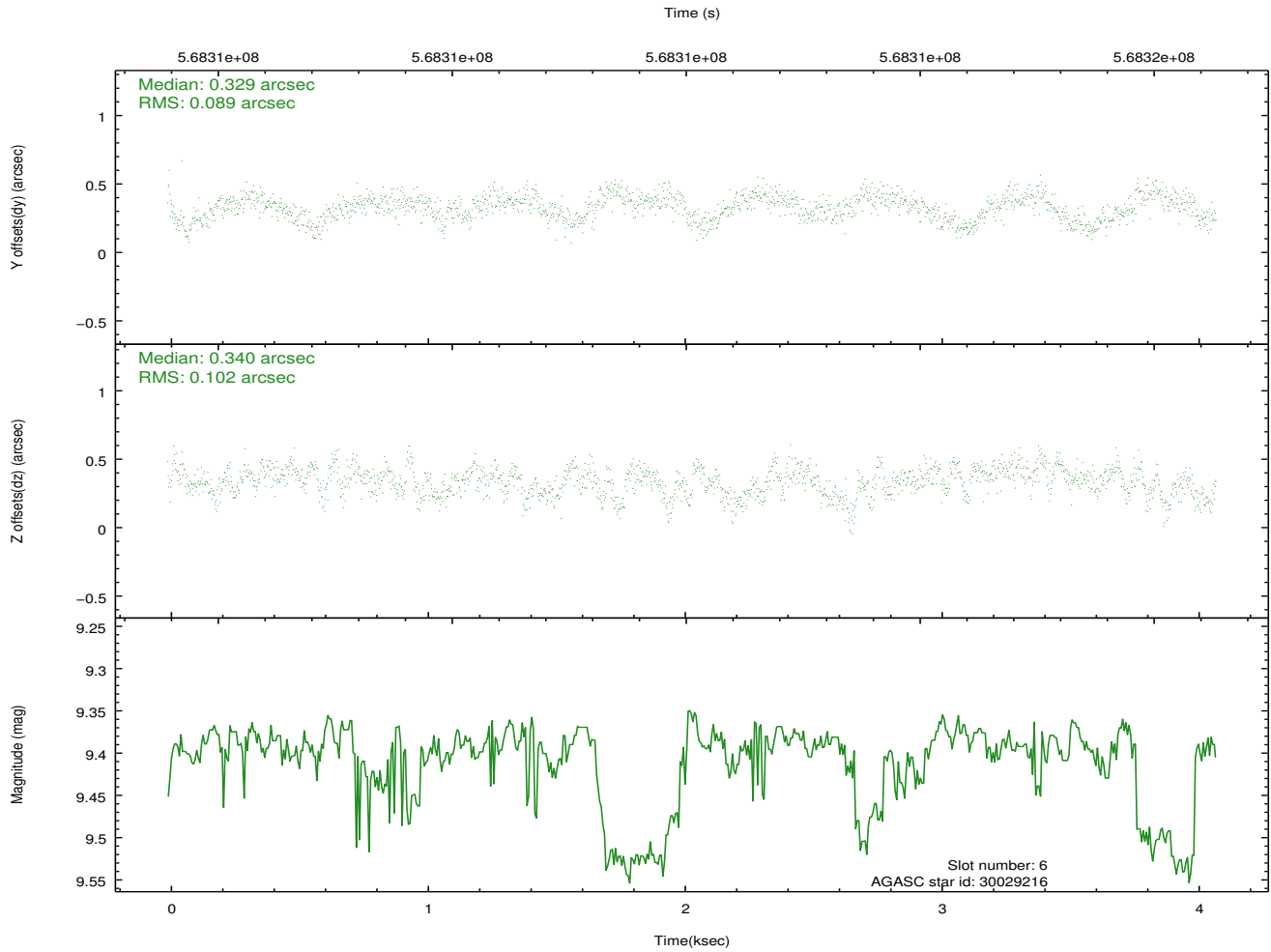
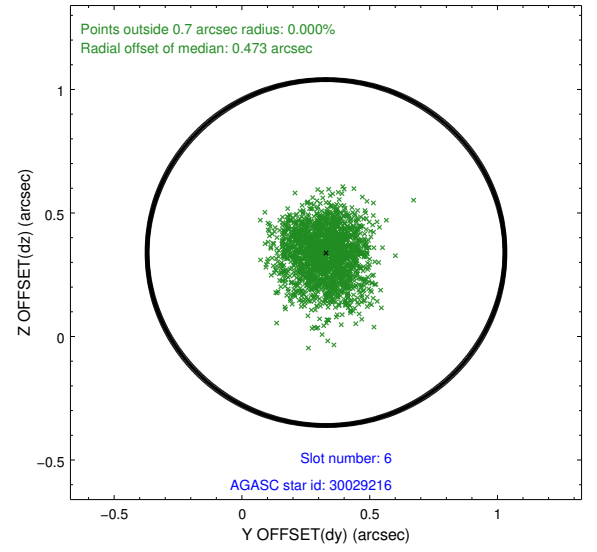
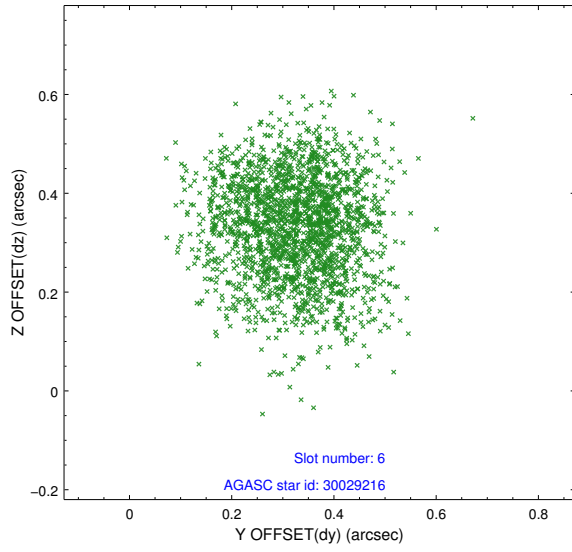
2.4.2 Slot 4



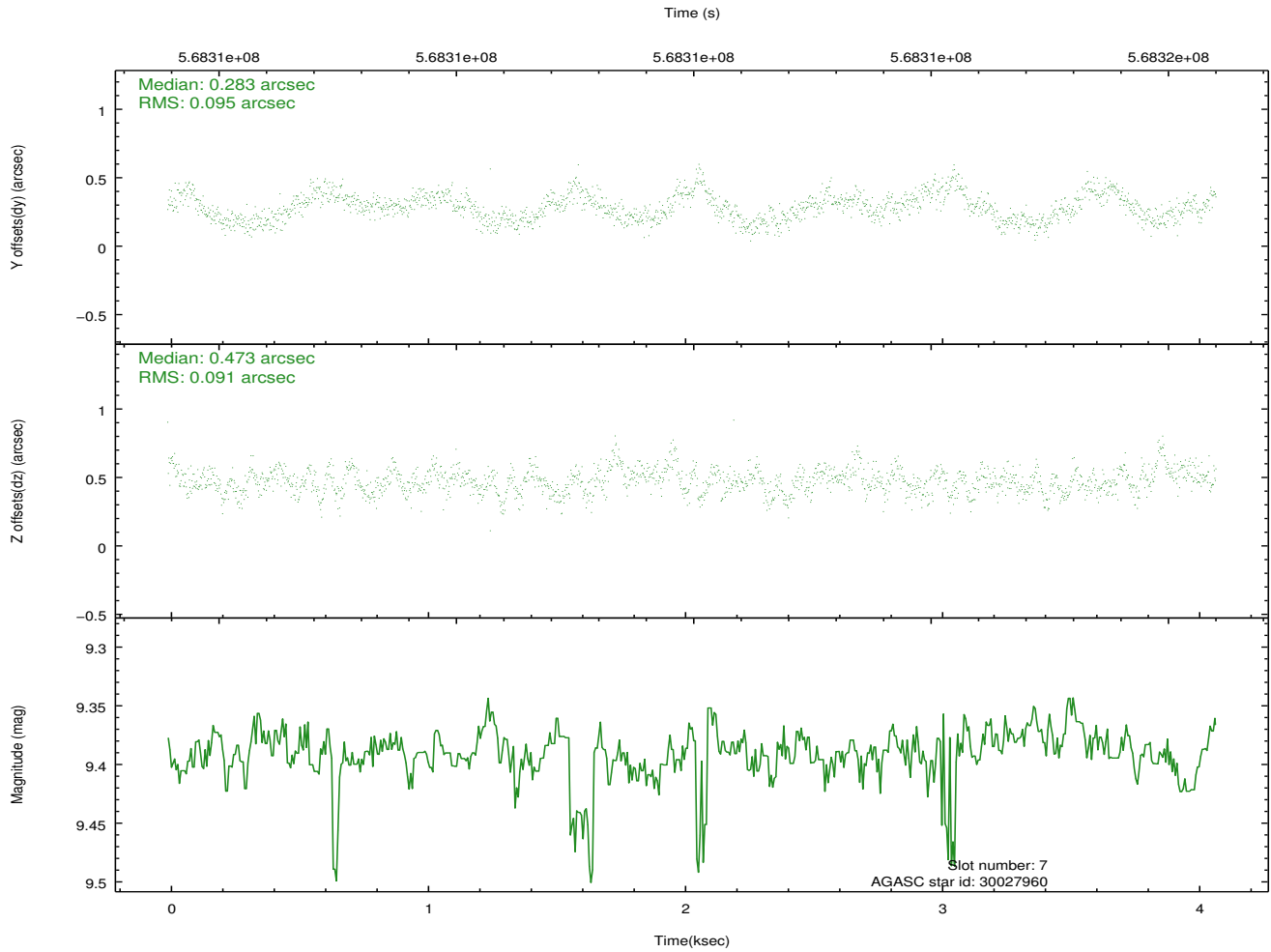
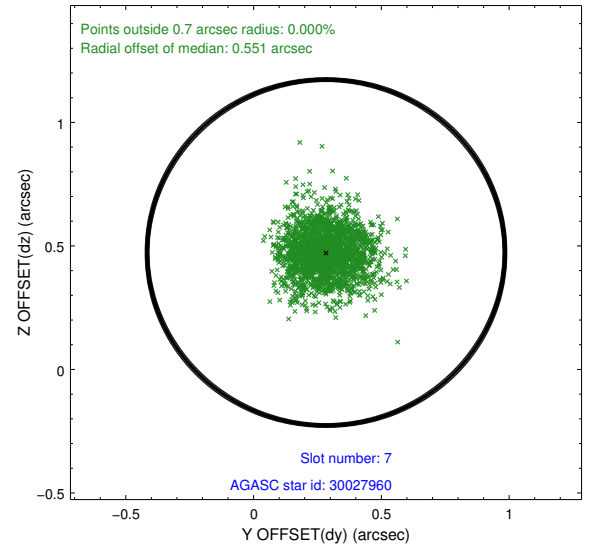
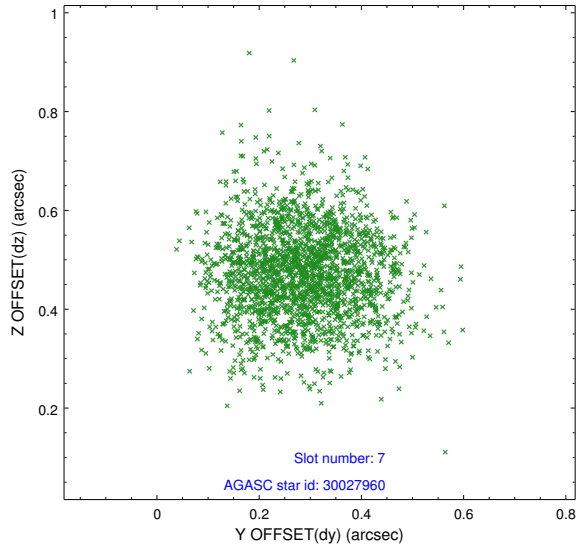
2.4.3 Slot 5



2.4.4 Slot 6

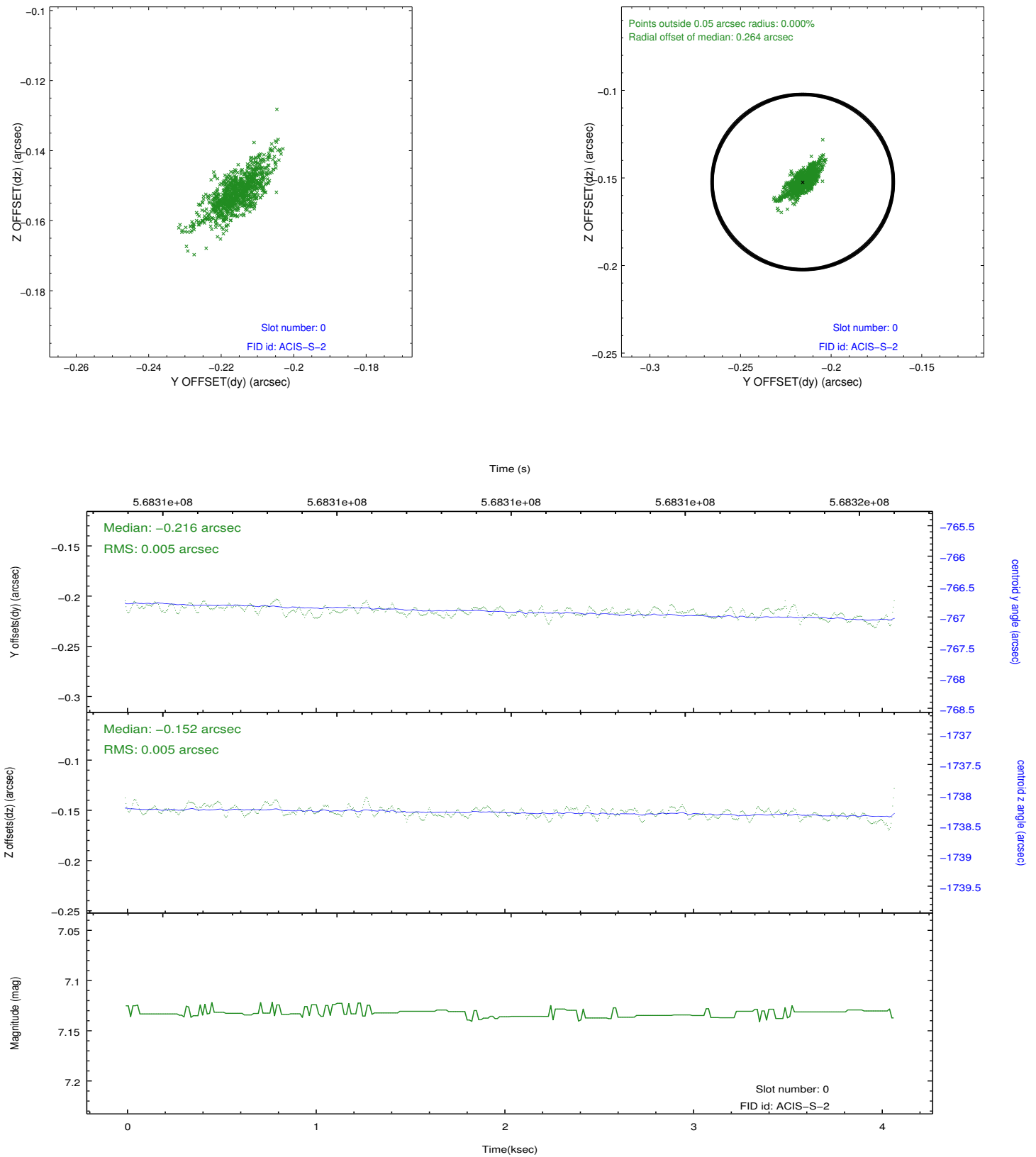


2.4.5 Slot 7

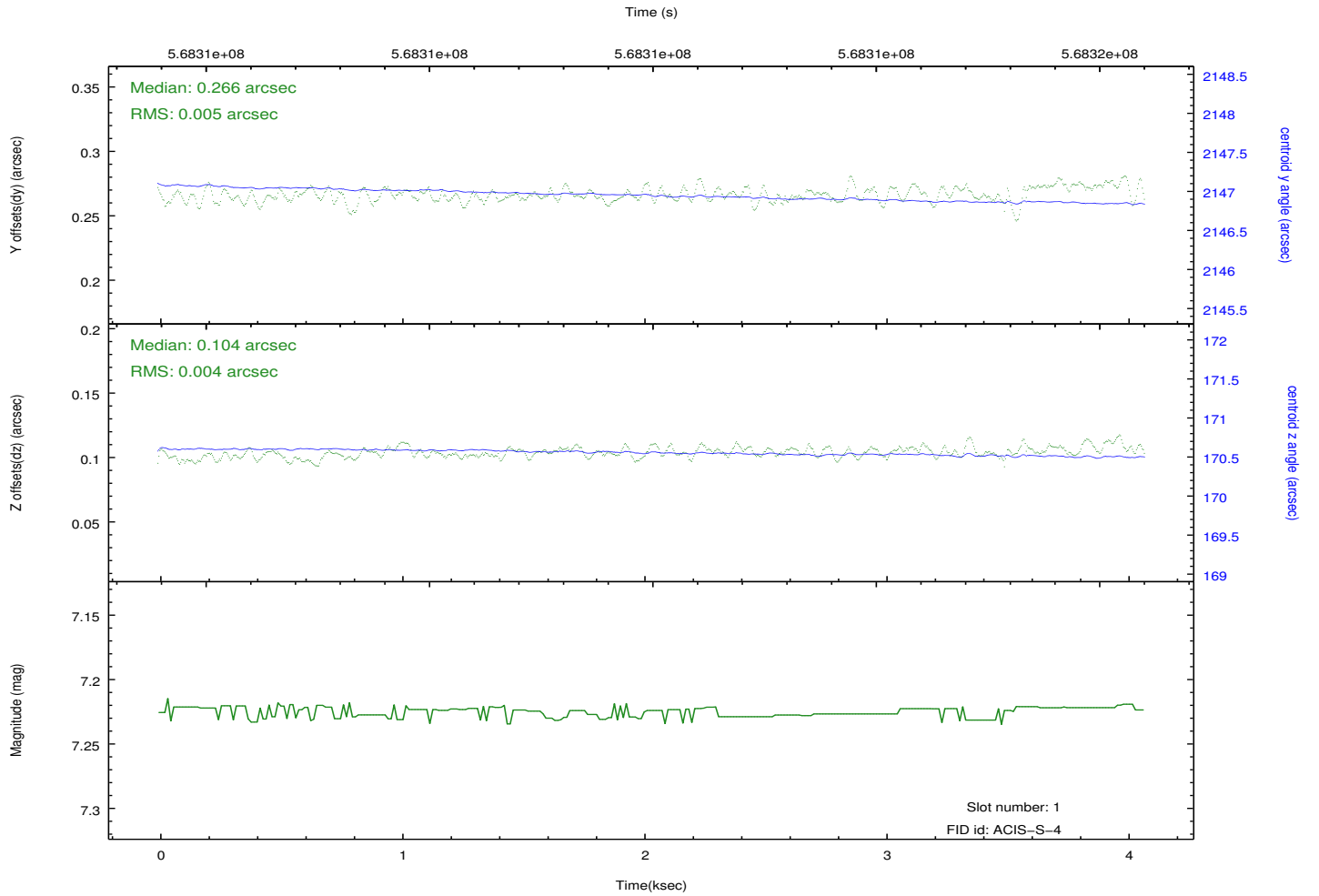
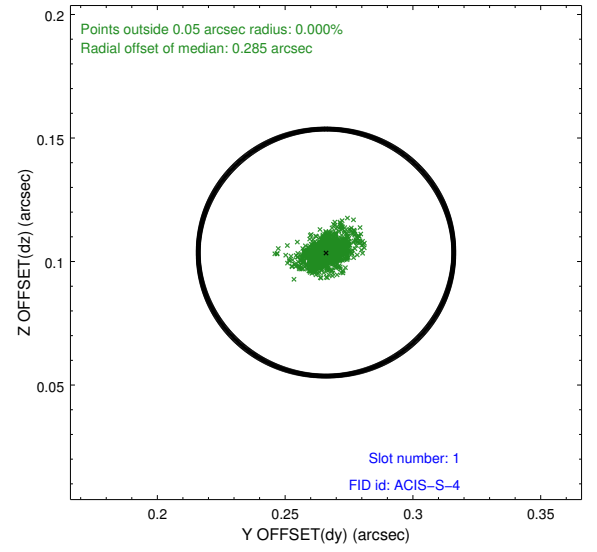
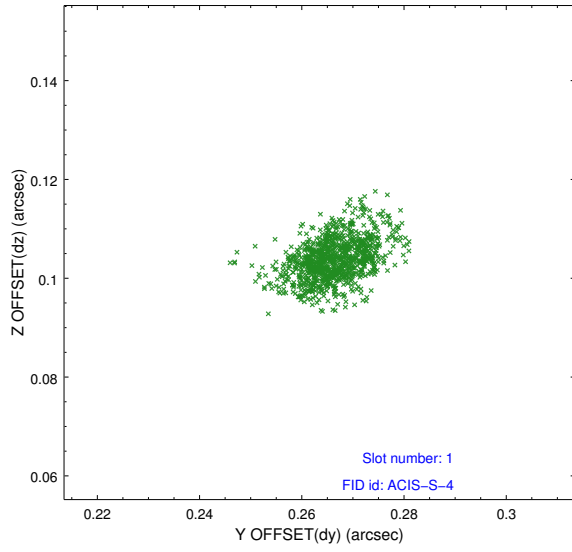


2.5 FID Slots

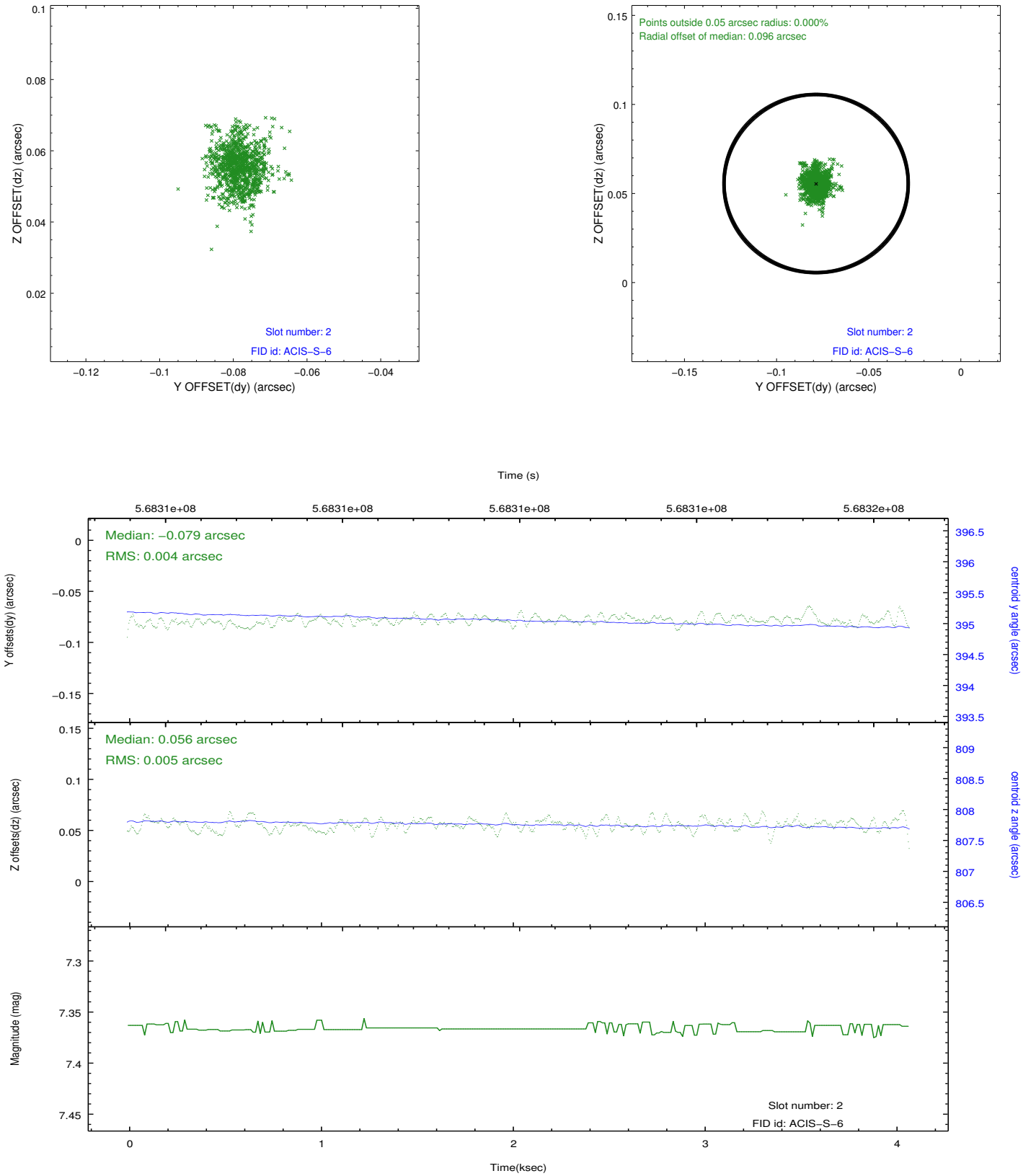
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.01.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.9742000306845

A.2 Comments