

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22288 - L2 Version 1
Chandra X-Ray Center

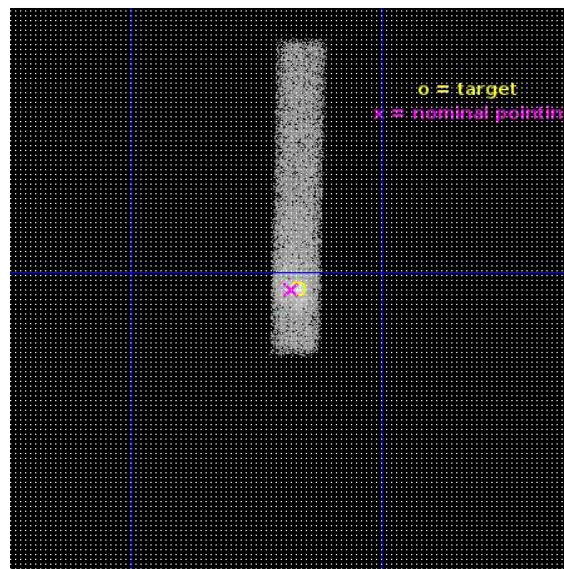
L2 Processing Date : Aug 16 2019

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

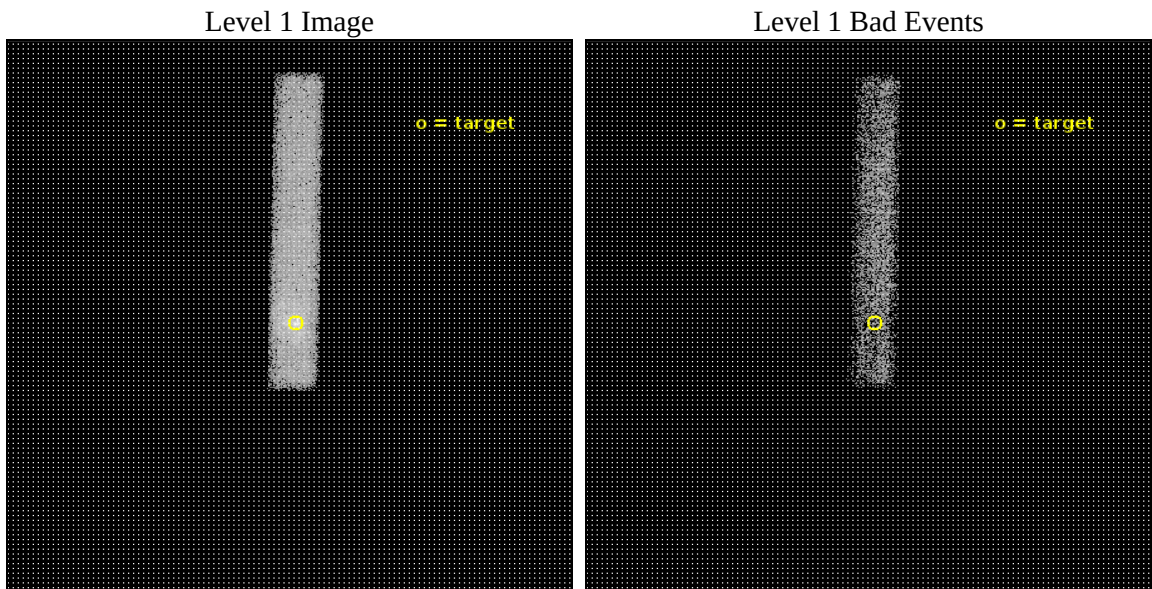
seq_num	601425	Sequence number
obs_id	22288	Observation id
title	Chandra/NuSTAR Monitoring of Sgr A*, SGR J1745-2900 and X-ray transients in the GC	Proposal title
observer	Gordon Garmire	Principal investigator
object	SgrA*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007833	Observer's specified target Dec [deg]
ra_nom	266.41990672991	Nominal RA [deg]
dec_nom	-29.008017837293	Nominal Dec [deg]
roll_nom	271.15819684495	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26669.427771211	Sum of GTIs [s]
livetime	24187.763260666	Livetime [s]
ontime7	26669.427771211	Sum of GTIs [s]
l2events	28571	Number of level 2 events



2 OBI

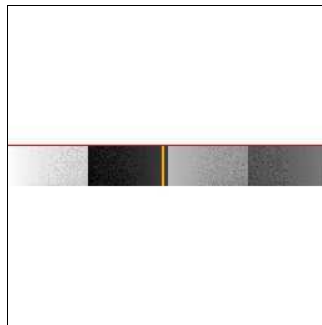
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26600.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	26669.427771211	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime7	26669.427771211	Sum of GTIs [s]
date	2019-08-16T14:09:20	Date and time of file creation	l1events	47765	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

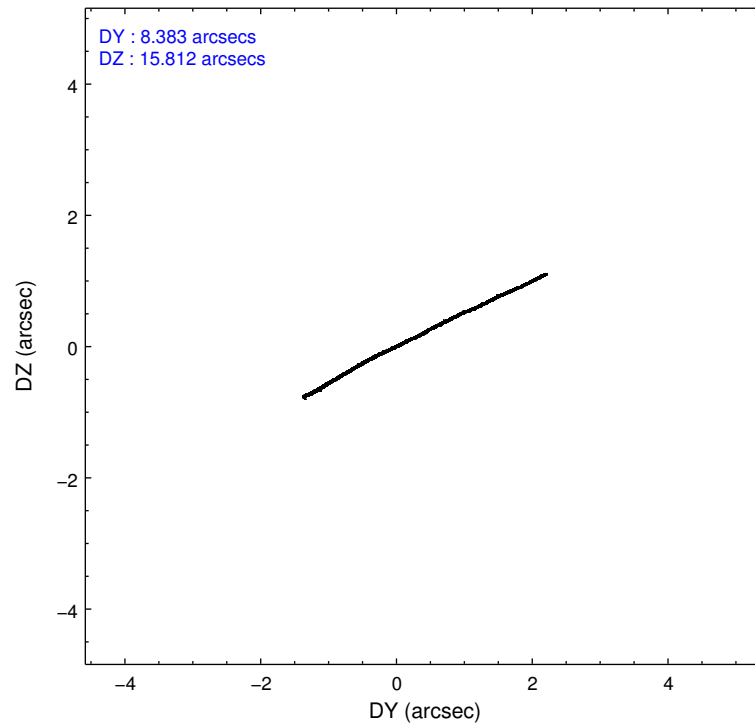
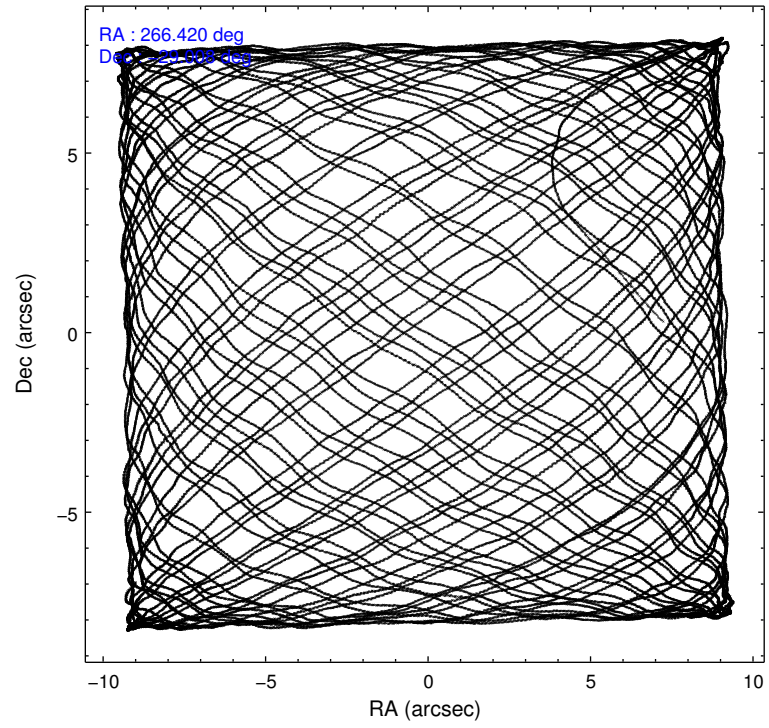
	ccd 7
level 1 events	47765
rejected events	18339
rejected %	38%

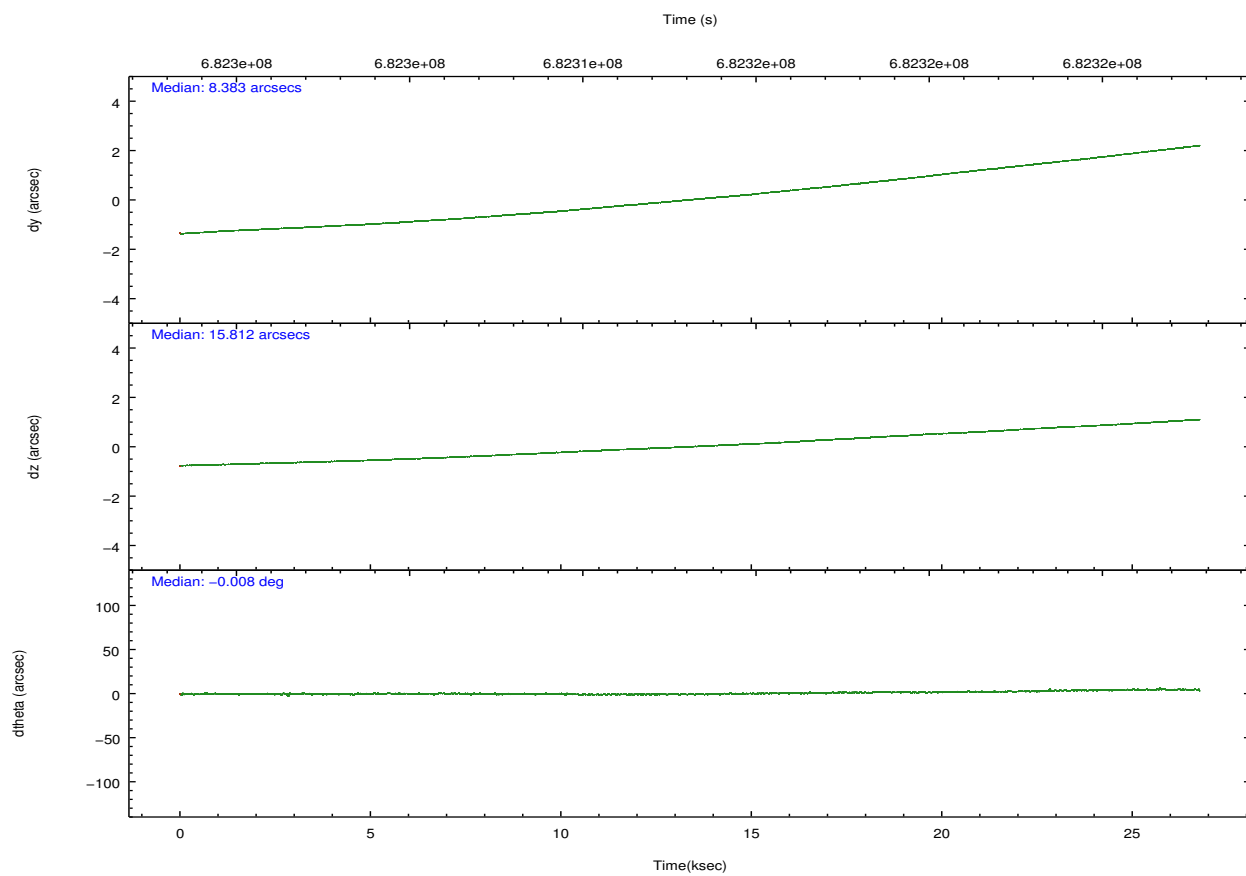
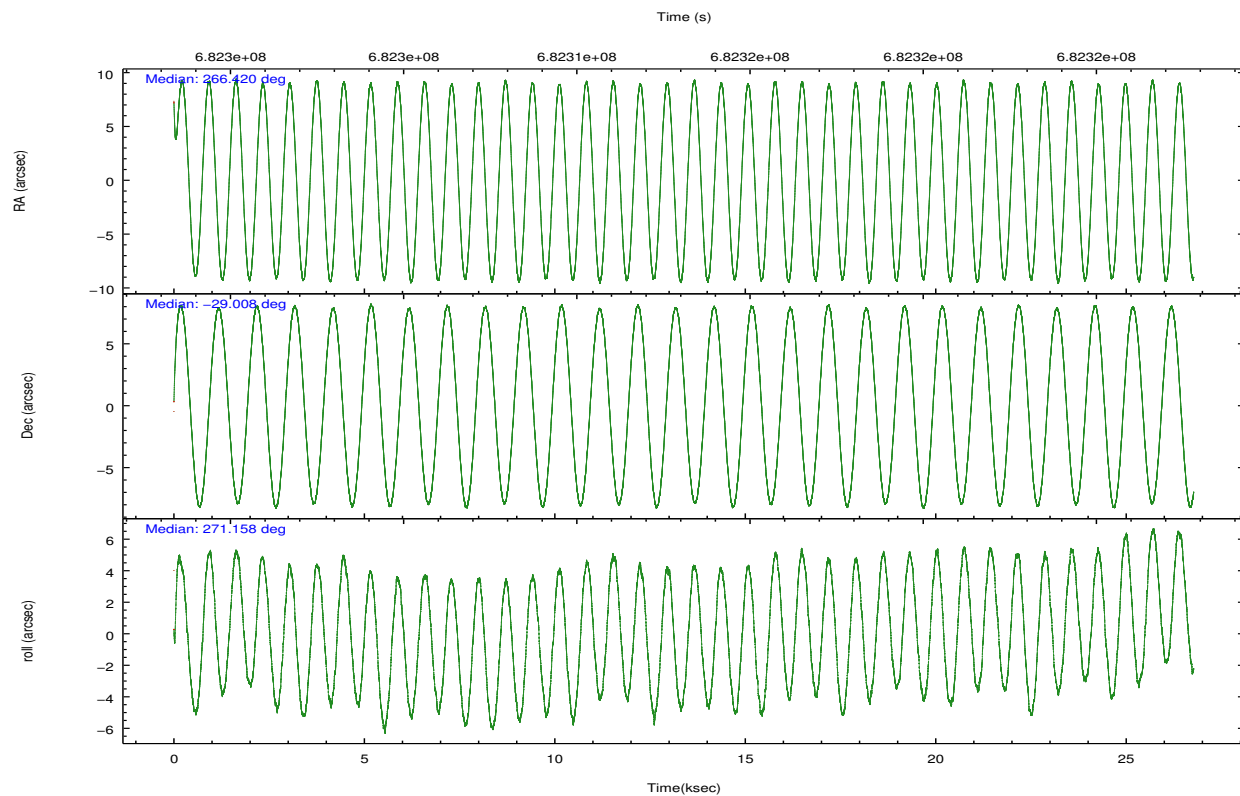
	ccd 7
grade 0 events	4243
	8%
grade 1 events	54
	0%
grade 2 events	6101
	12%
grade 3 events	3520
	7%
grade 4 events	3361
	7%
grade 5 events	3552
	7%
grade 6 events	12201
	25%
grade 7 events	14733
	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	266.403301	266.4199067299063	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-28.984730	-29.00801783729262	Subarray start row	449	449
[deg] Pointing Roll	270.993525	271.1581968449462	Subarray row count	128	128
[s] Window start time (MET)	681782469.184000	681782469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	683251209.184000	683251209.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	682299872.184000	682298680.8991899			
Observation start date	2019-08-15T23:43:23	2019-08-15T23:24:40			
[s] Observation end time (MET)	682326472.184000	682327172.31341			
Observation end date	2019-08-16T07:06:43	2019-08-16T07:19:32			
Read mode	TIMED	TIMED			

2.3 Aspect



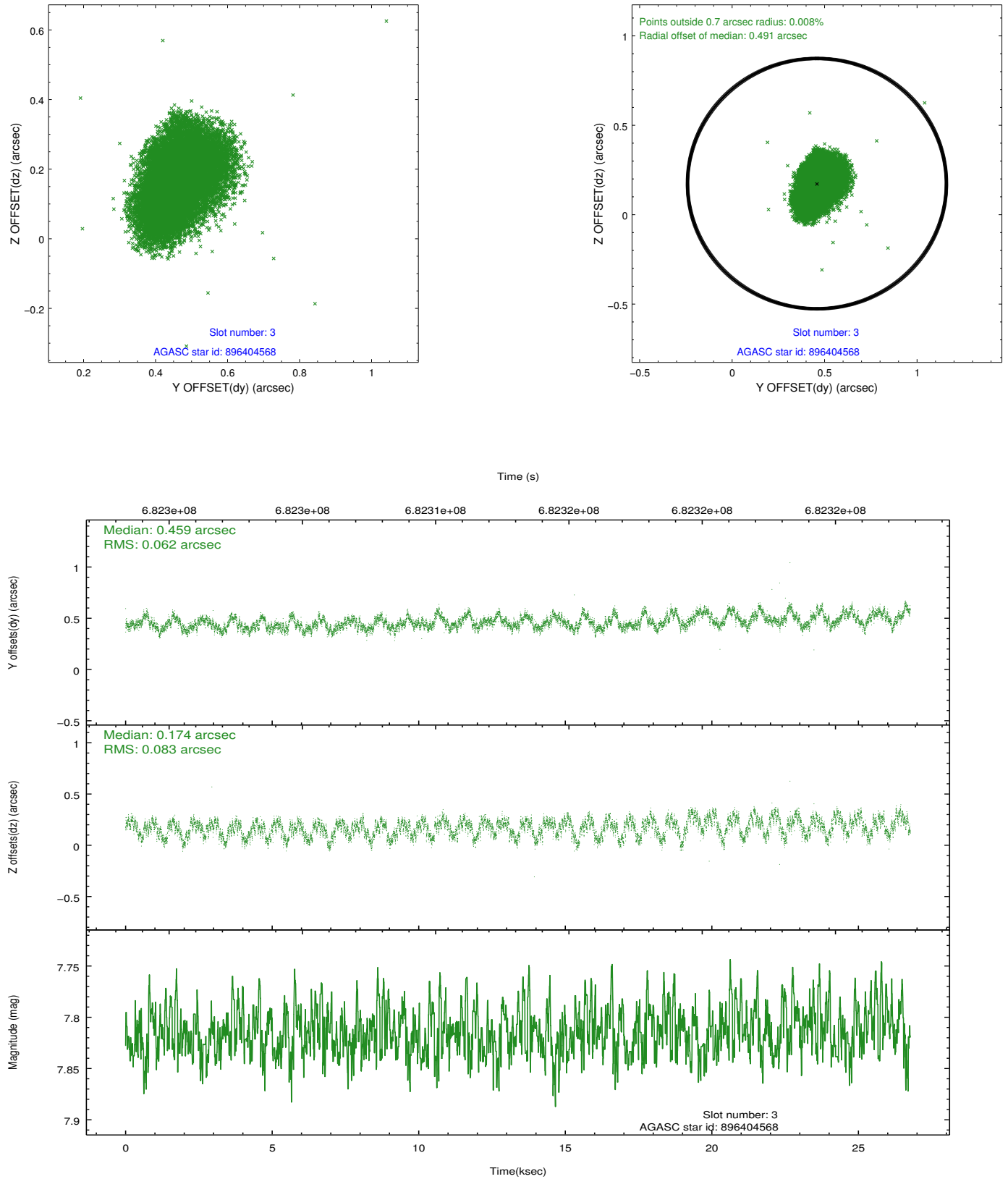


Slot Statistics

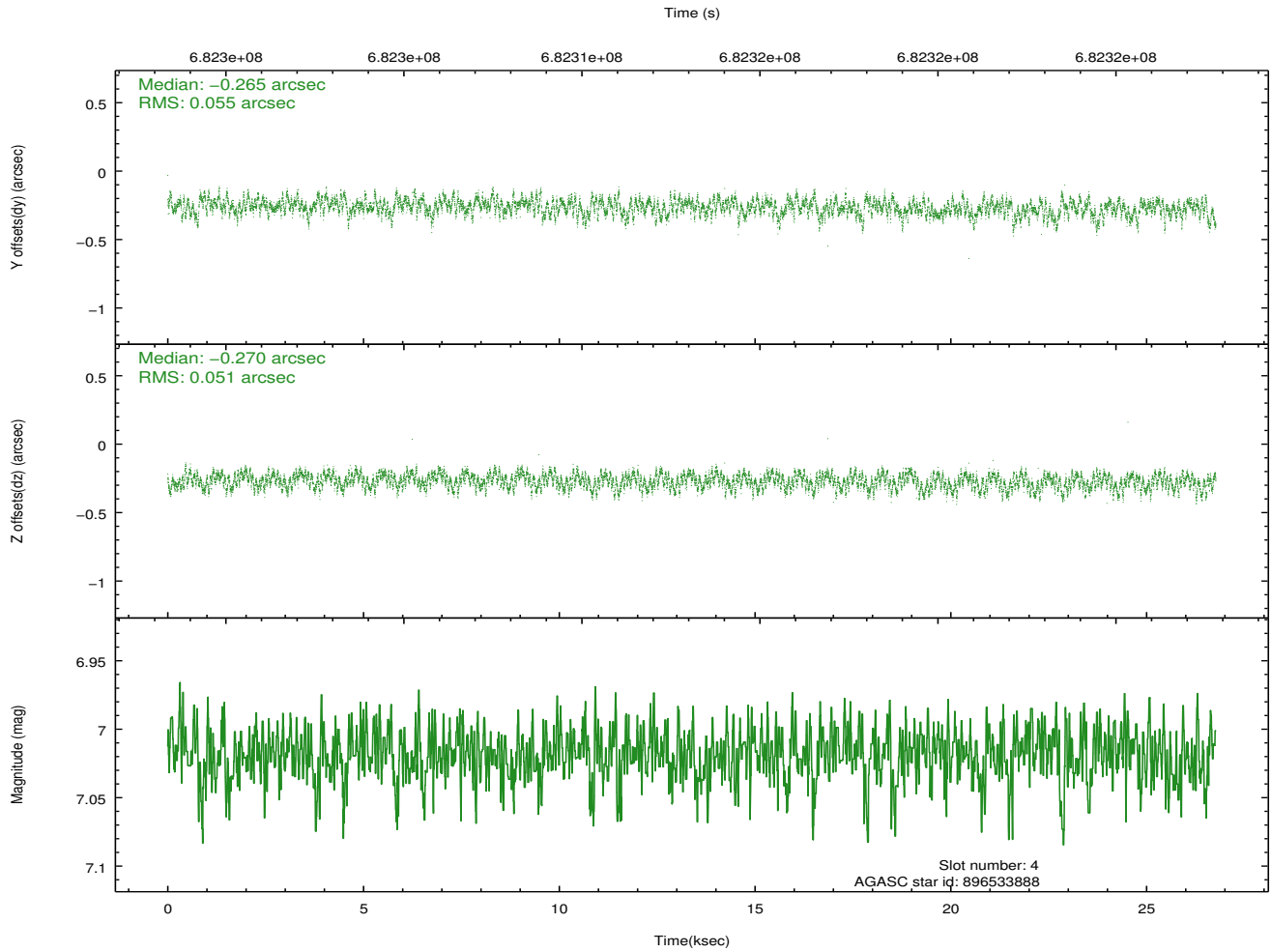
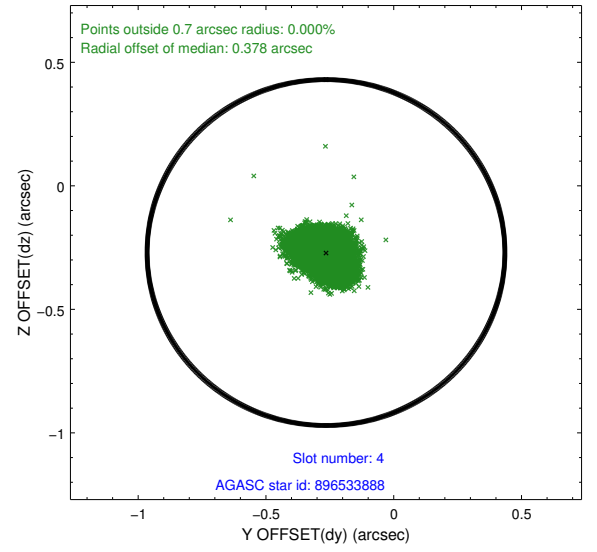
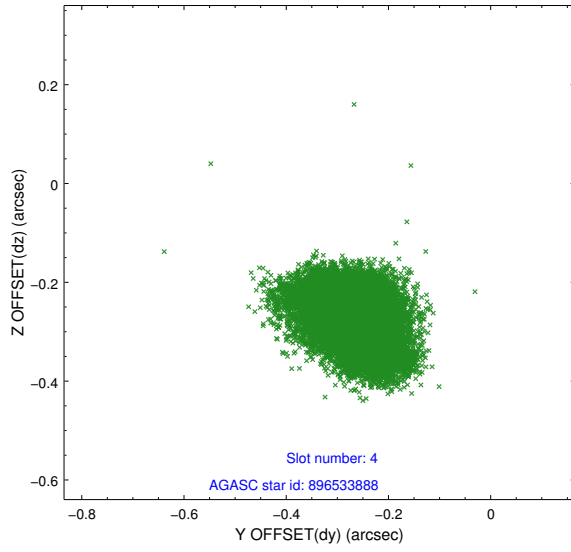
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.21	6530	1.000	0.028	-0.131	0.021	0.051	0.000000	0.000000	934.82	-1732
1	FID		ACIS-S-4	7.24	6530	1.000	0.494	0.085	0.033	0.044	0.000000	0.000000	2152.66	171
2	FID		ACIS-S-5	7.20	6530	1.000	-0.557	0.060	0.044	0.088	0.000000	0.000000	-1814.59	164
3	GUIDE	used	896404568	7.81	13054	1.000	0.459	0.174	0.113	0.172	265.687293	-28.431080	-2024.68	-2231
4	GUIDE	used	896533888	7.02	13058	1.000	-0.265	-0.270	0.079	0.130	266.666434	-29.392757	1483.93	799
5	GUIDE	used	896538696	6.78	13059	1.000	0.021	0.211	0.061	0.095	266.298470	-28.325572	-2377.84	-290
6	GUIDE	used	896541360	7.70	13058	1.000	-0.059	-0.088	0.070	0.112	266.684478	-29.453744	1704.55	851
7	GUIDE	used	896537776	7.51	13058	1.000	-0.156	-0.014	0.055	0.089	266.655684	-29.665673	2465.80	746

2.4 Star Slots

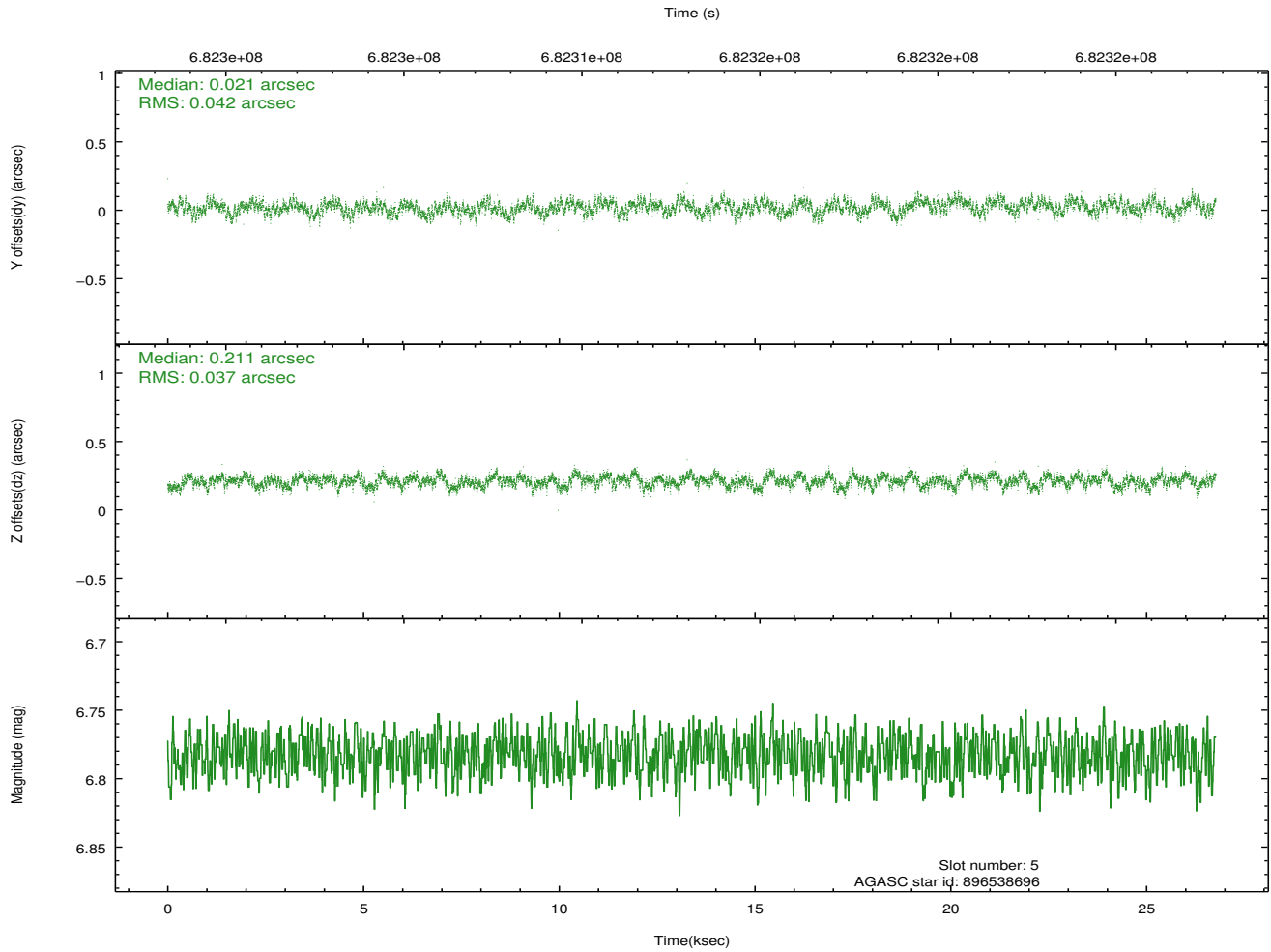
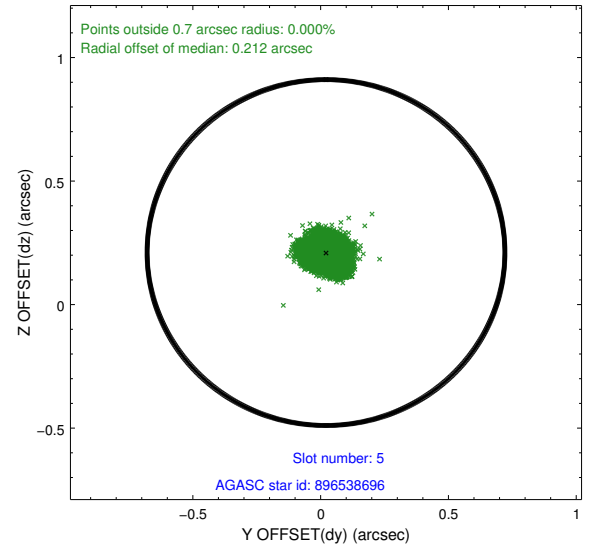
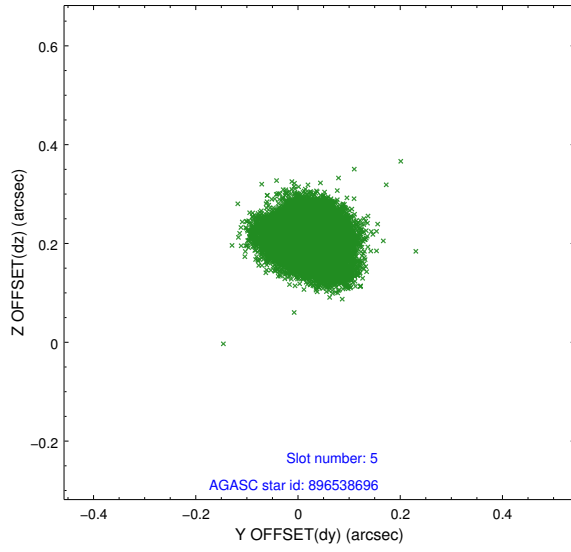
2.4.1 Slot 3



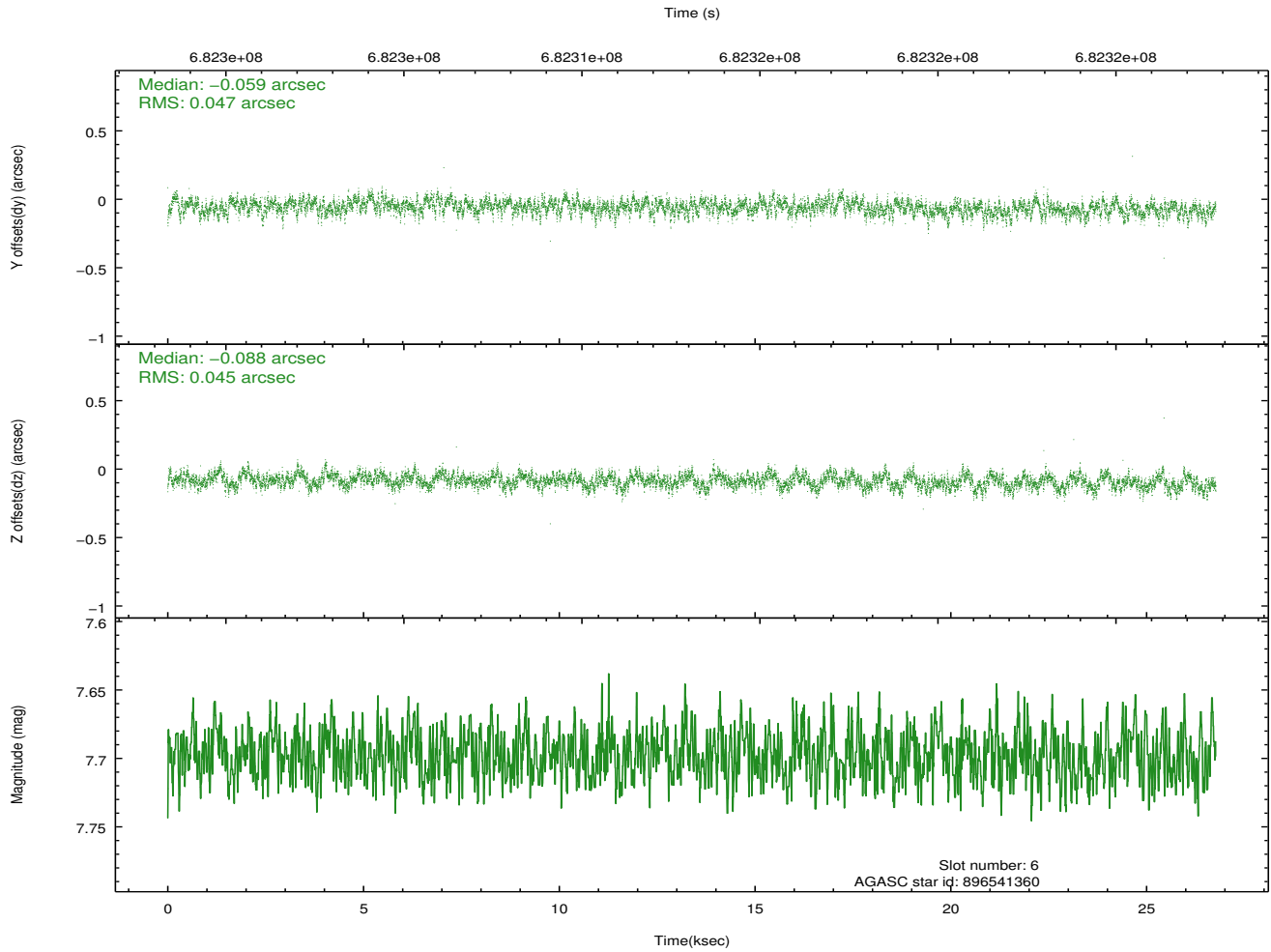
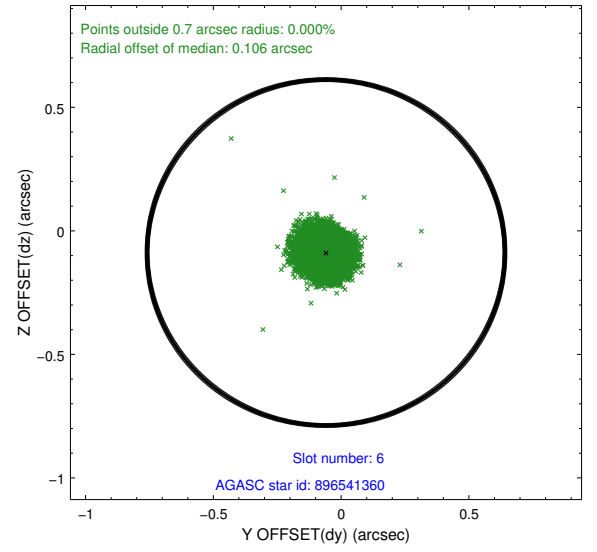
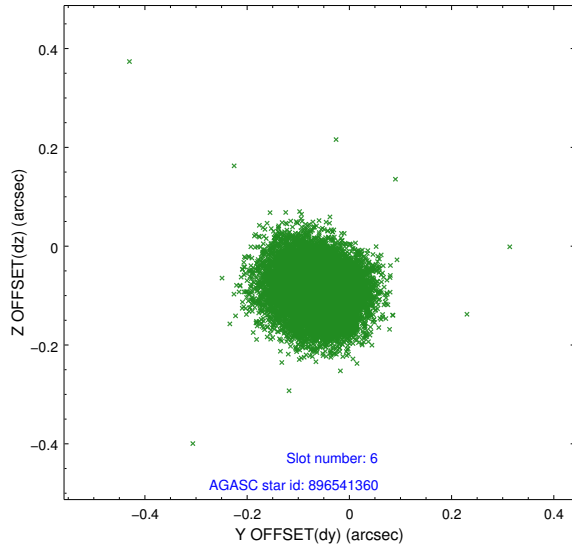
2.4.2 Slot 4



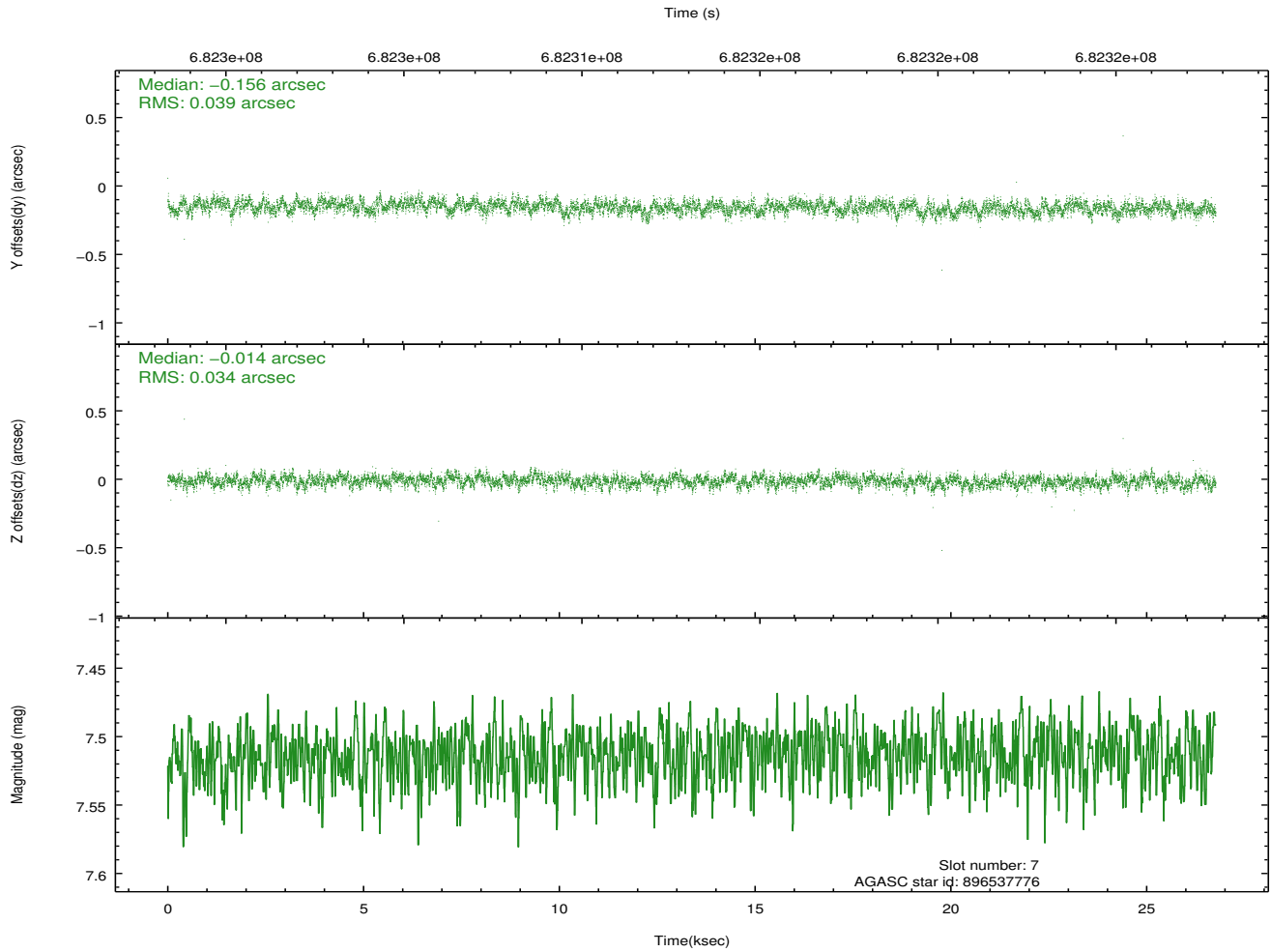
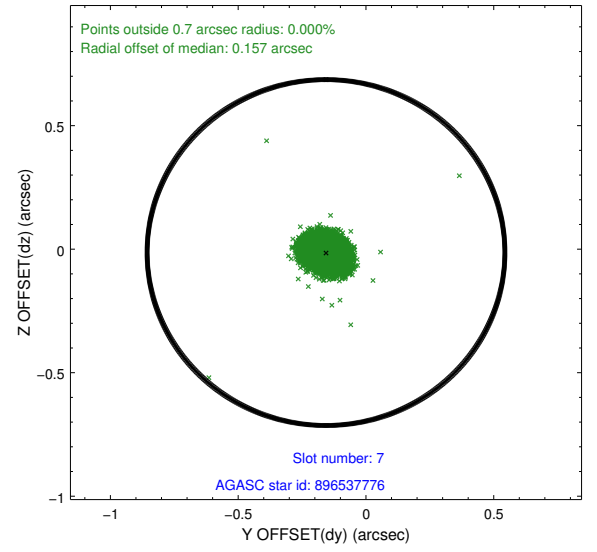
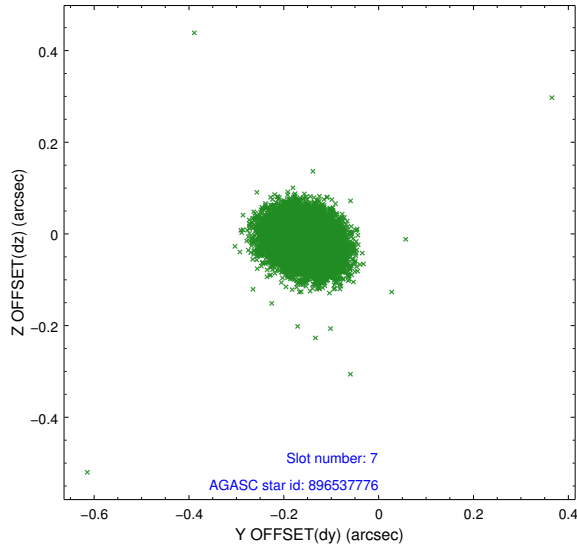
2.4.3 Slot 5



2.4.4 Slot 6

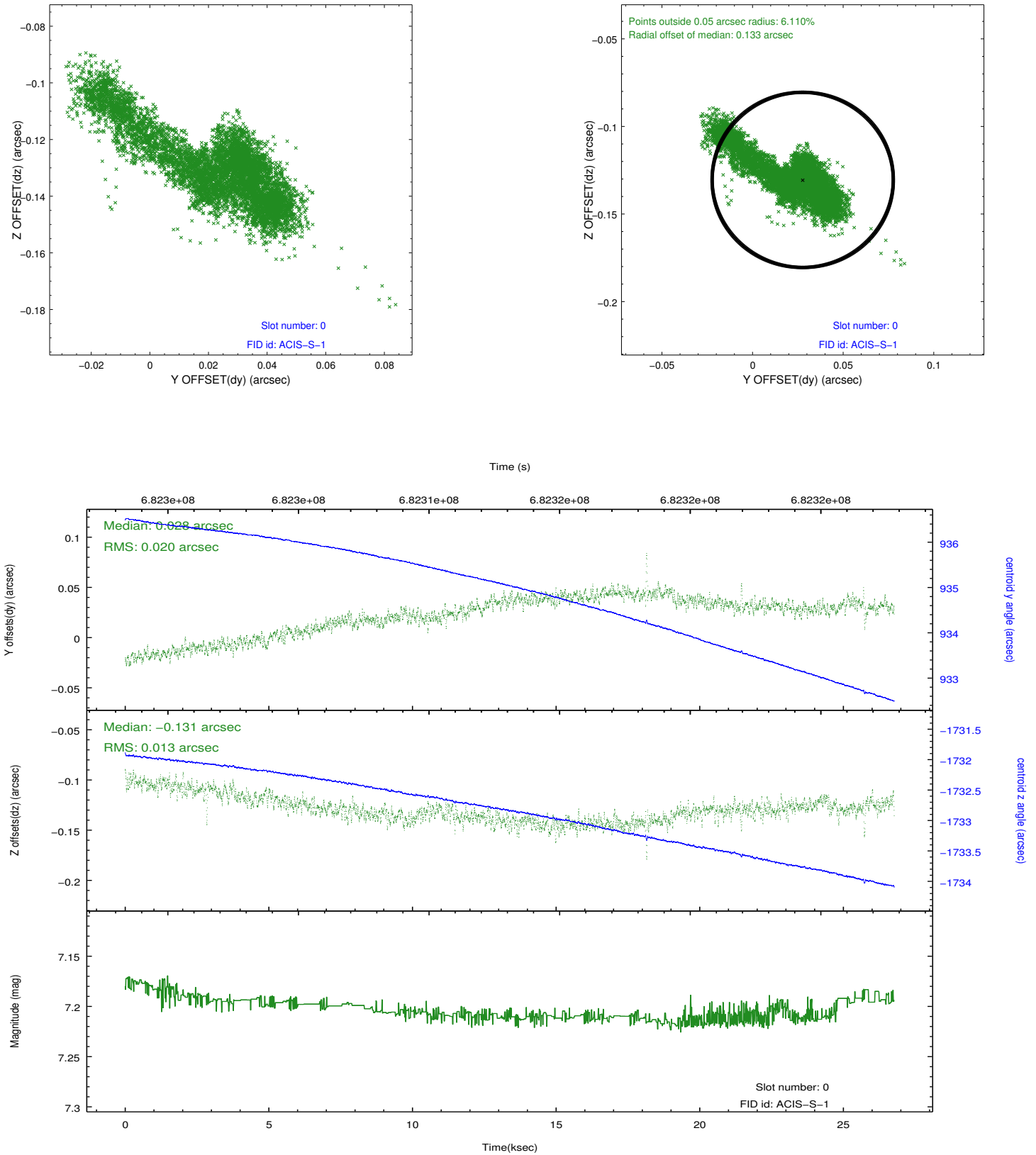


2.4.5 Slot 7

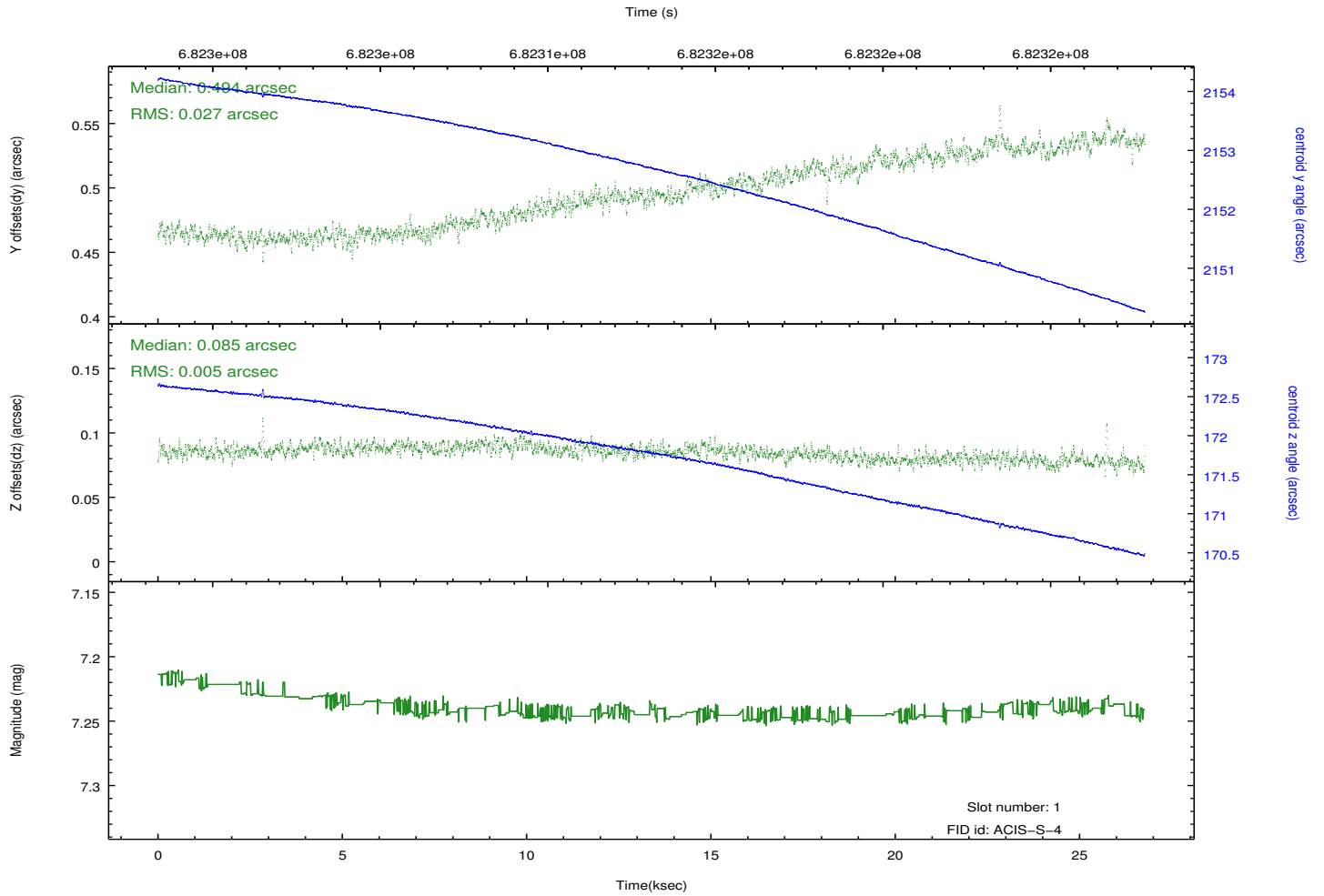
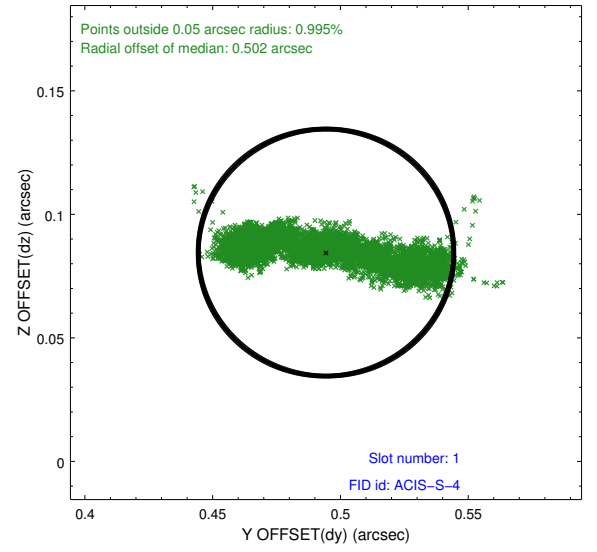
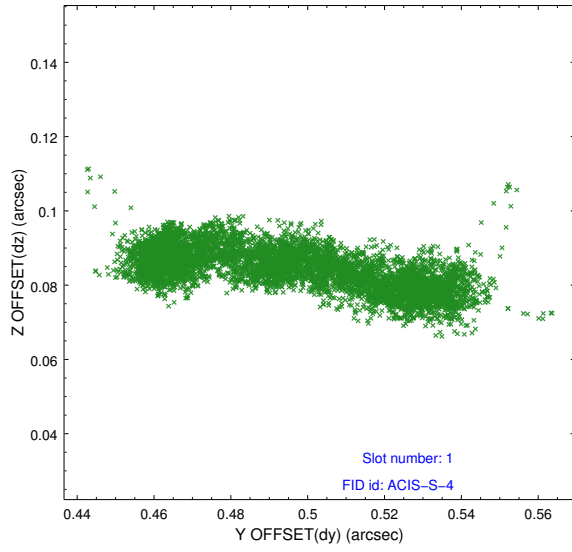


2.5 FID Slots

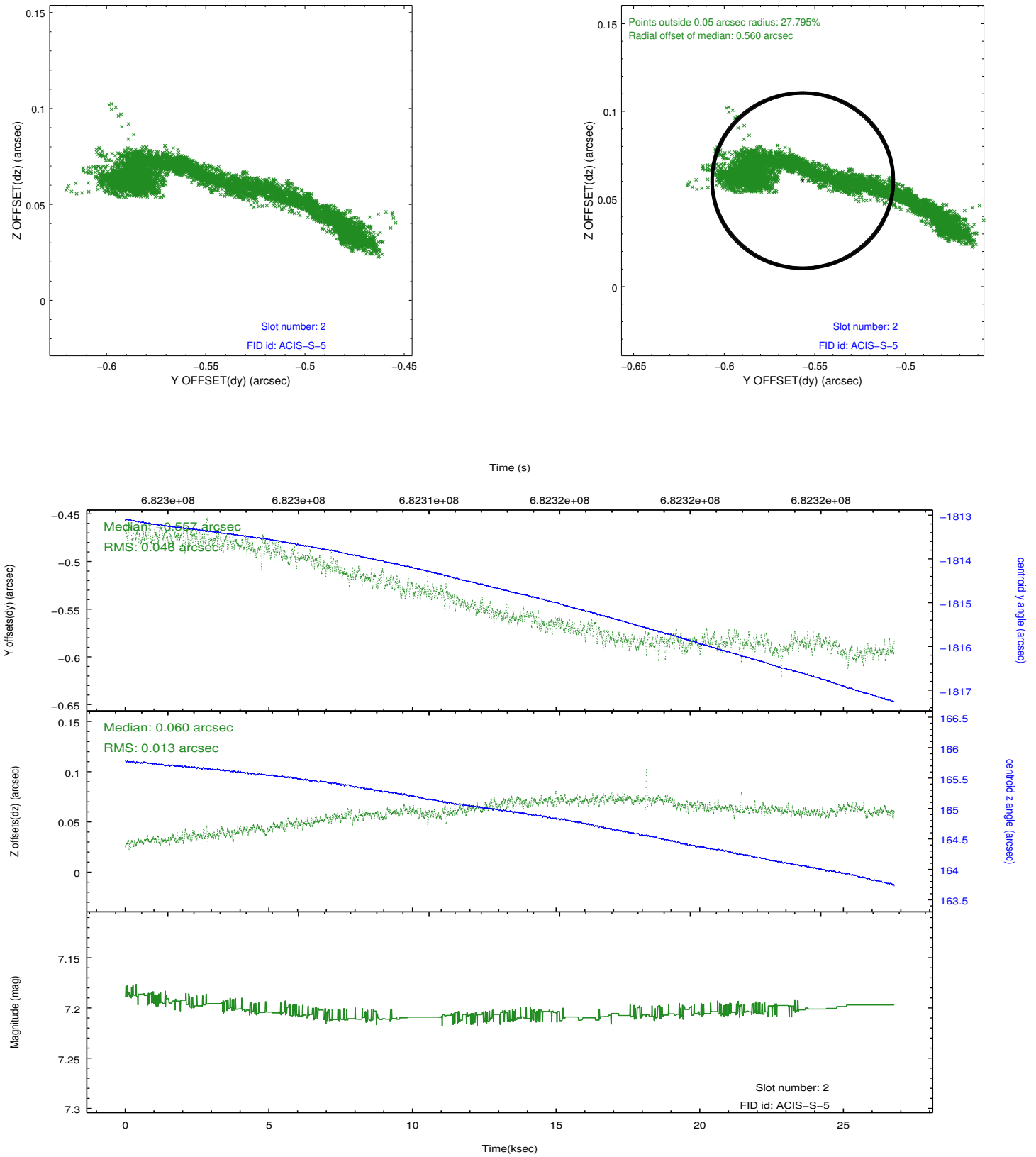
2.5.1 Slot 0



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)	2019.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.669427771211

A.2 Comments

Observation coordinated with NuSTAR.

Window constraint met.