

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21456 - L2 Version 1
Chandra X-Ray Center

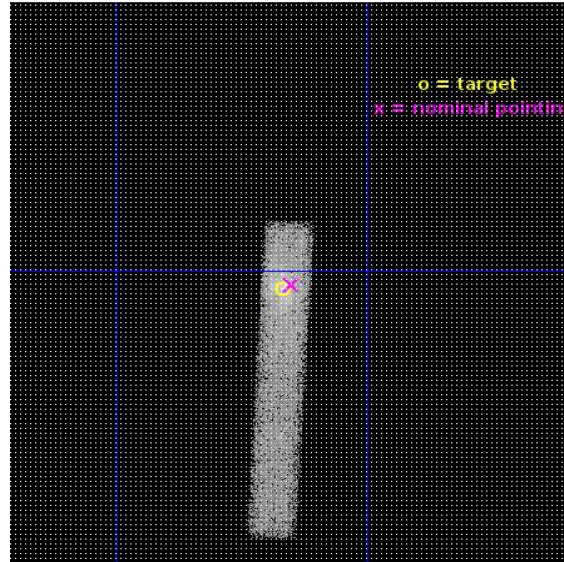
L2 Processing Date : Apr 1 2019

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1 Front

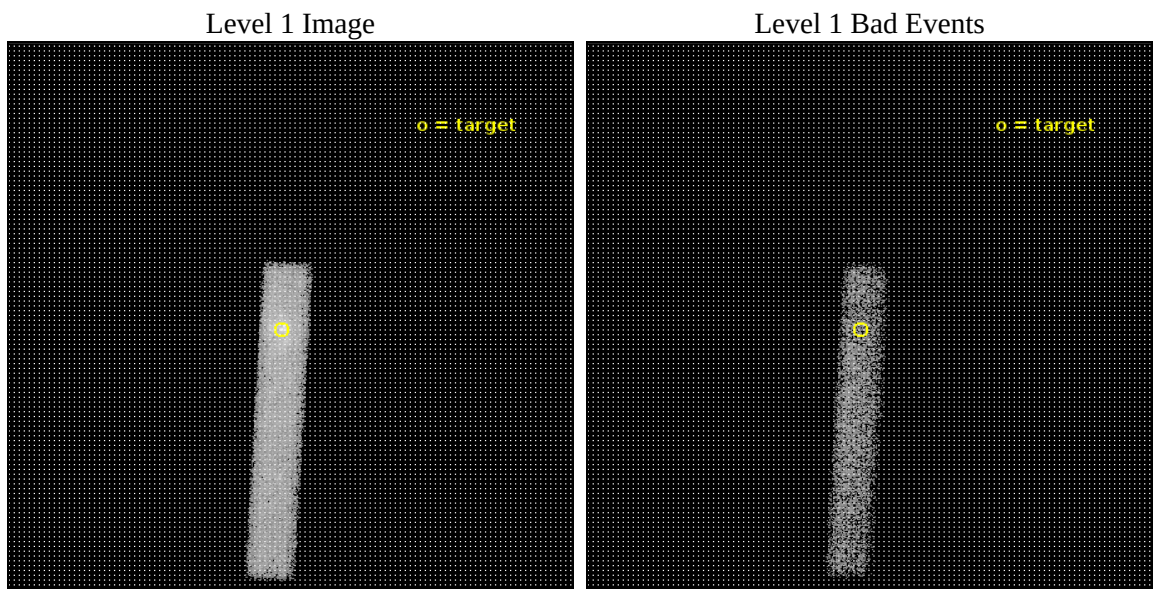
seq_num	703753	Sequence number
obs_id	21456	Observation id
title	Event Horizon Dynamics: Joint Chandra/EHT Imaging of Sgr A* and M87	
observer	Daryl Haggard	Principal investigator
object	Sgr A*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007833	Observer's specified target Dec [deg]
ra_nom	266.41258102624	Nominal RA [deg]
dec_nom	-29.006255725953	Nominal Dec [deg]
roll_nom	93.154644553194	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33069.194272876	Sum of GTIs [s]
livetime	29992.013670303	Livetime [s]
ontime7	33069.194272876	Sum of GTIs [s]
l2events	34625	Number of level 2 events



2 OBI

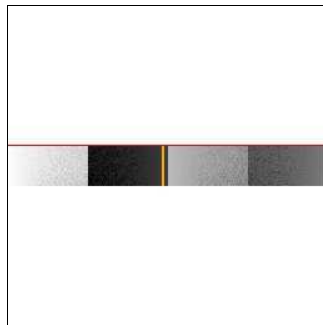
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	33069.194272876	Sum of GTIs [s]
caldbver	4.8.2	 	ontime7	33069.194272876	Sum of GTIs [s]
date	2019-04-02T02:51:56	Date and time of file creation	l1events	58297	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	58297
rejected events	22656
rejected %	38%

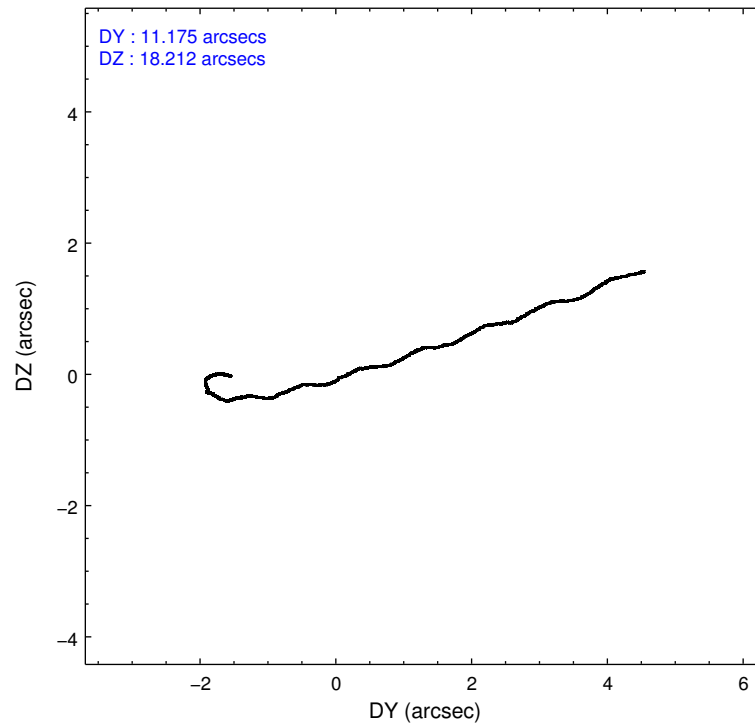
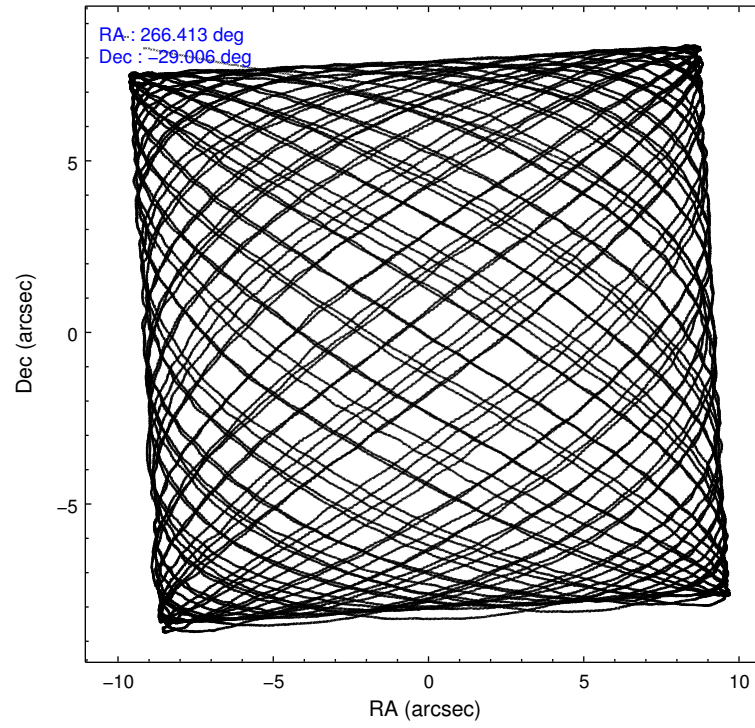
	ccd 7
grade 0 events	5085
	8%
grade 1 events	83
	0%
grade 2 events	7626
	13%
grade 3 events	4208
	7%
grade 4 events	4179
	7%
grade 5 events	4515
	7%
grade 6 events	14543
	24%
grade 7 events	18058
	30%

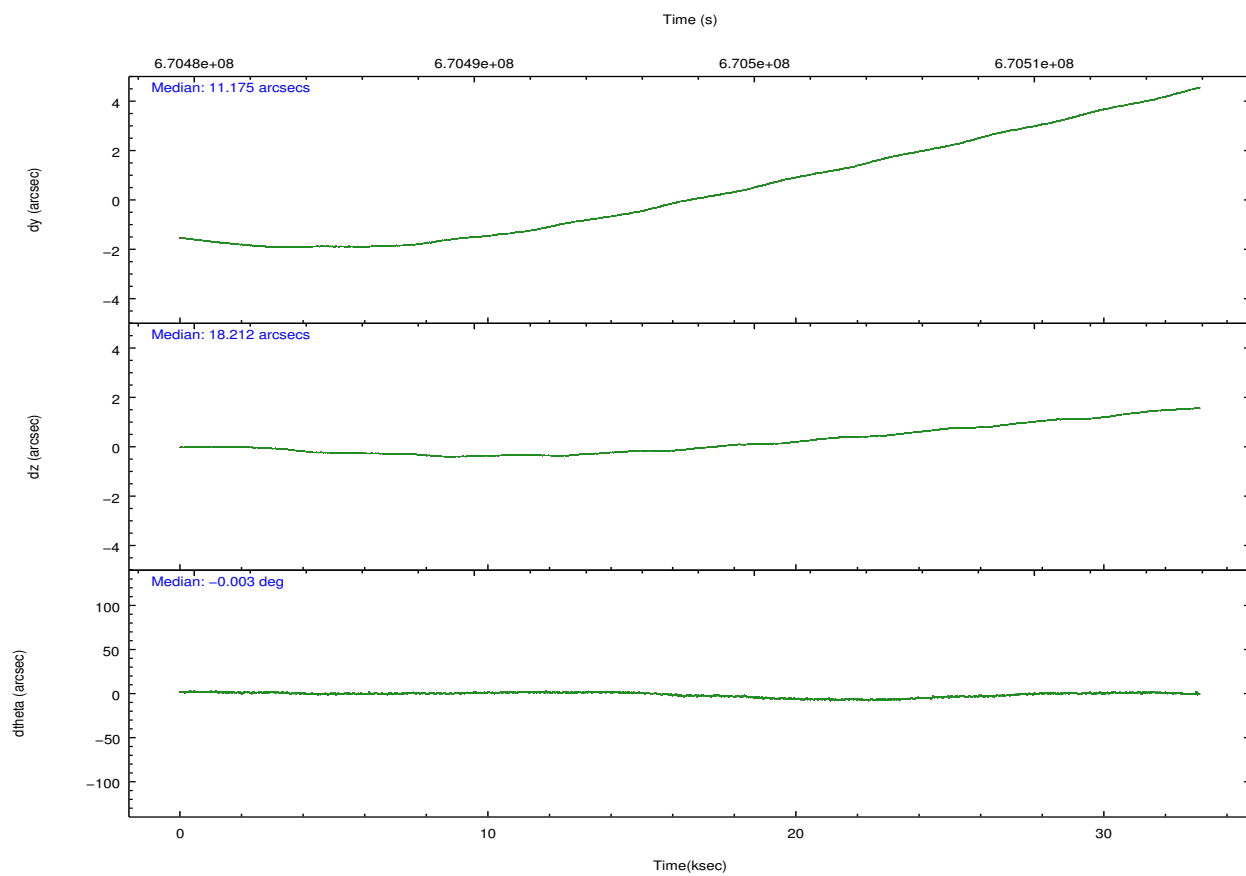
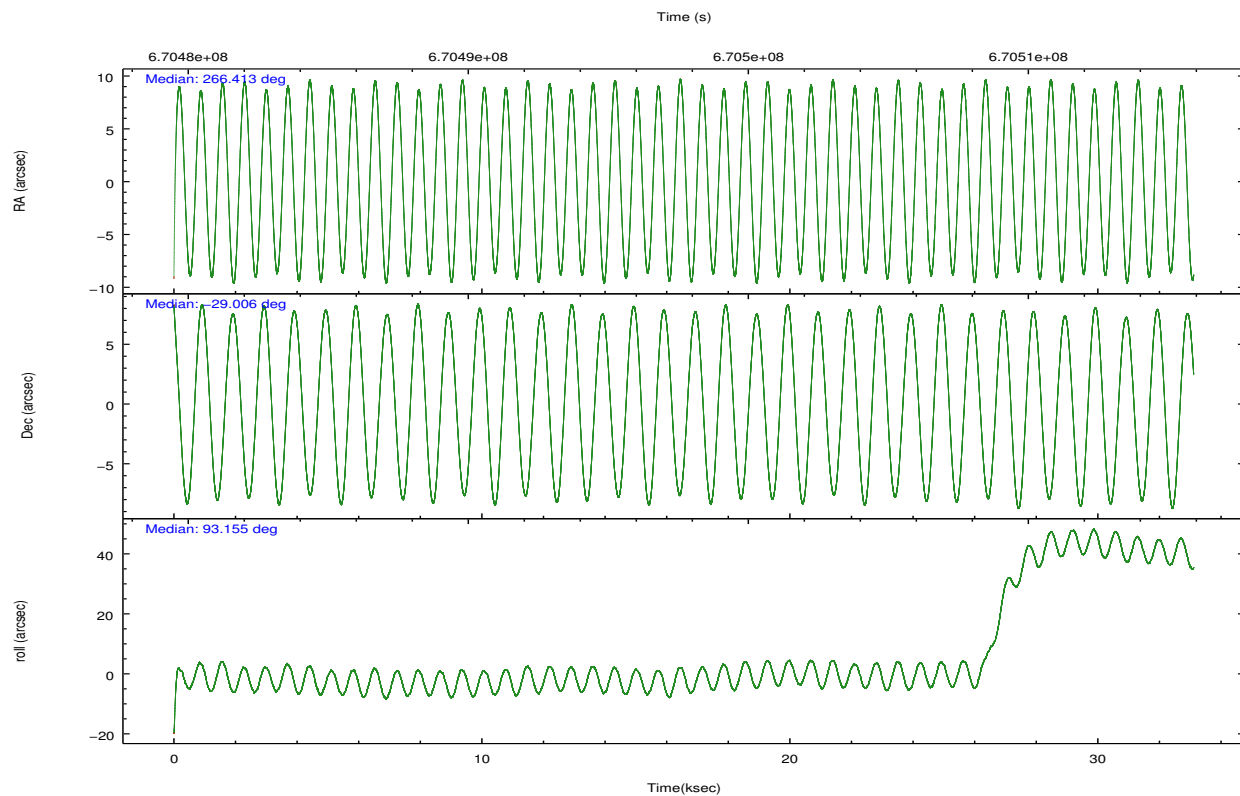
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	266.430096	266.4125810262396
[deg] Pointing Dec	-29.029031	-29.00625572595284
[deg] Pointing Roll	93.006510	93.15464455319369
[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)	670481259.184000	670479784.95275
Observation start date	2019-04-01T04:46:30	2019-04-01T04:23:04
[s] Observation end time (MET)	670514259.184000	670515028.0423599
Observation end date	2019-04-01T13:56:30	2019-04-01T14:10:28
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



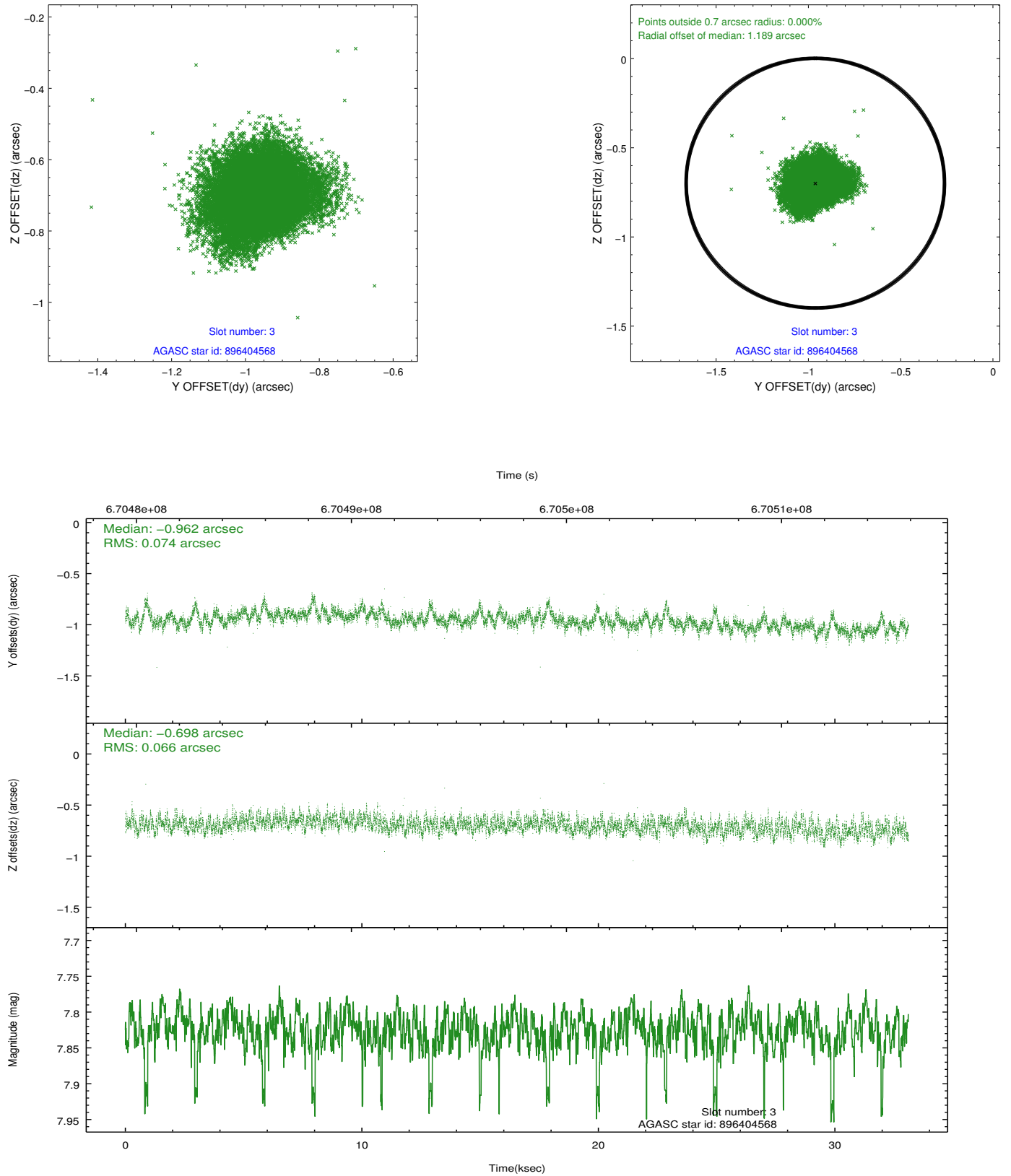


Slot Statistics

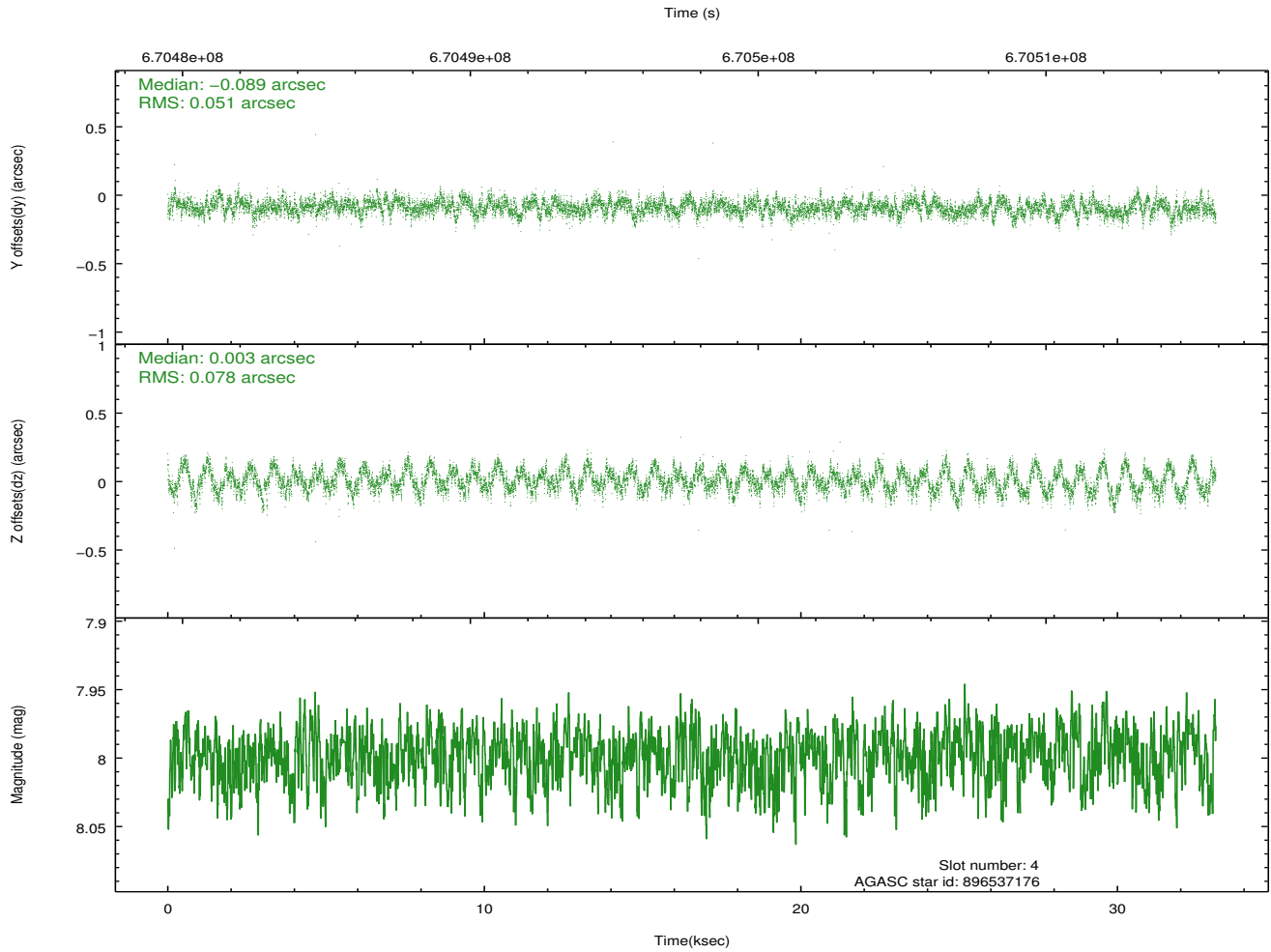
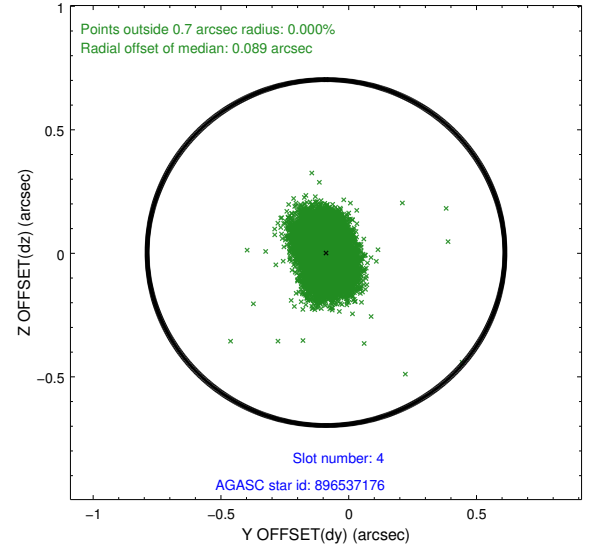
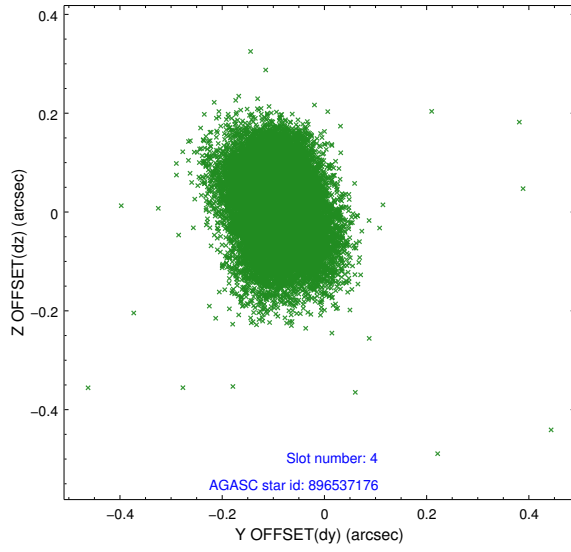
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		7.16	8076	1.000	0.209	0.085	0.028	0.049	0.000000	0.000000	931.73	-1735
1	FID		7.06	8077	1.000	-0.324	-0.182	0.026	0.047	0.000000	0.000000	-764.68	-1740
2	FID		7.32	8076	1.000	0.093	0.098	0.018	0.053	0.000000	0.000000	397.32	805
3	GUIDE	used	7.82	16145	1.000	-0.962	-0.698	0.105	0.171	265.687293	-28.431080	2265.16	2235
4	GUIDE	used	8.00	16151	1.000	-0.089	0.003	0.100	0.157	266.498272	-28.678259	1249.74	-281
5	GUIDE	used	7.50	16152	1.000	0.404	0.258	0.077	0.122	266.655684	-29.665673	-2325.71	-584
6	GUIDE	used	7.01	16152	1.000	0.331	0.264	0.076	0.131	266.666434	-29.392757	-1346.98	-671
7	GUIDE	used	7.69	16150	1.000	0.316	0.177	0.087	0.138	266.684478	-29.453744	-1569.05	-715

2.4 Star Slots

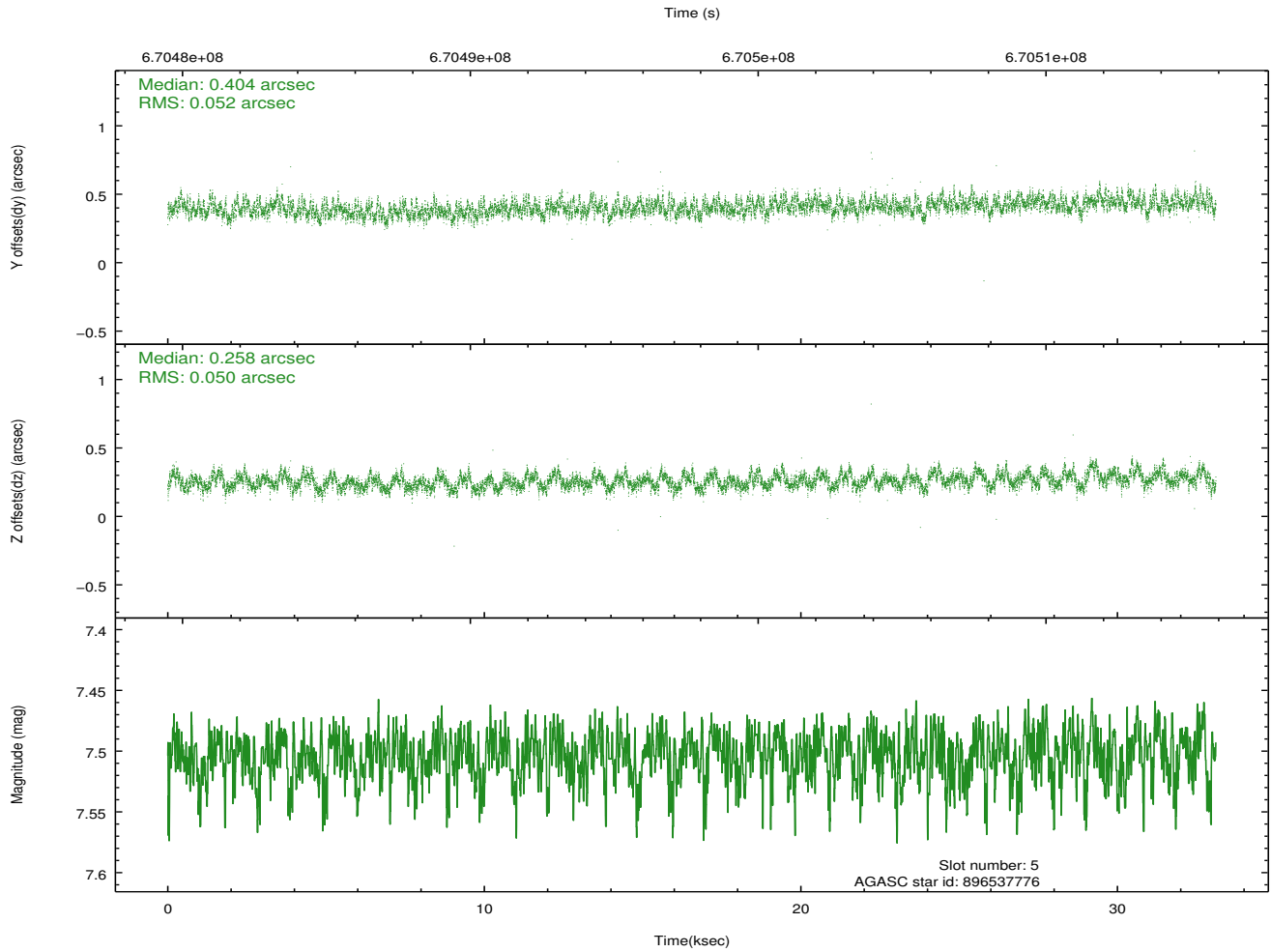
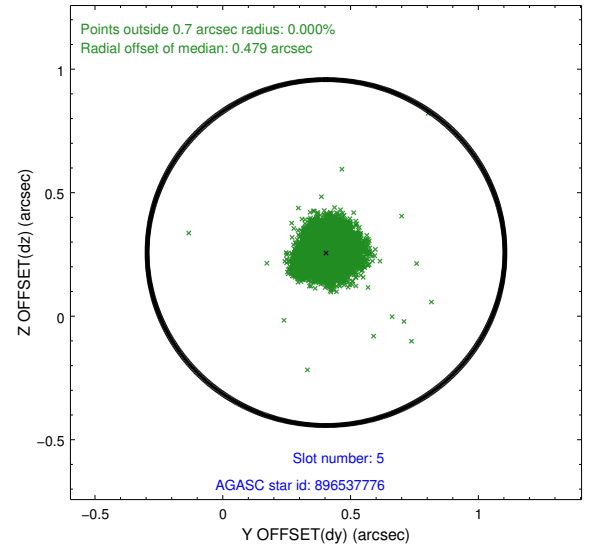
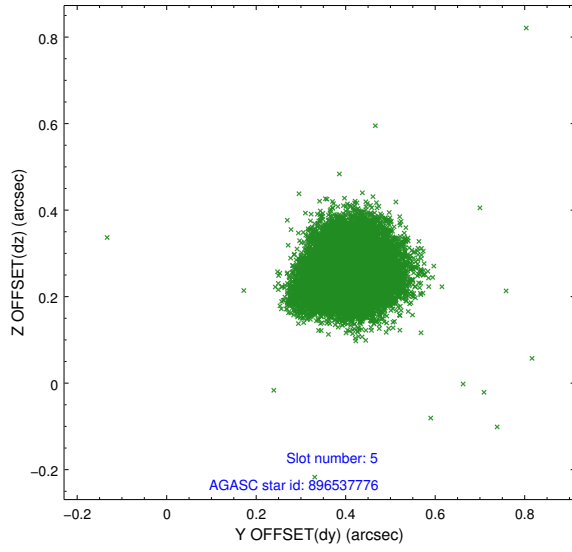
2.4.1 Slot 3



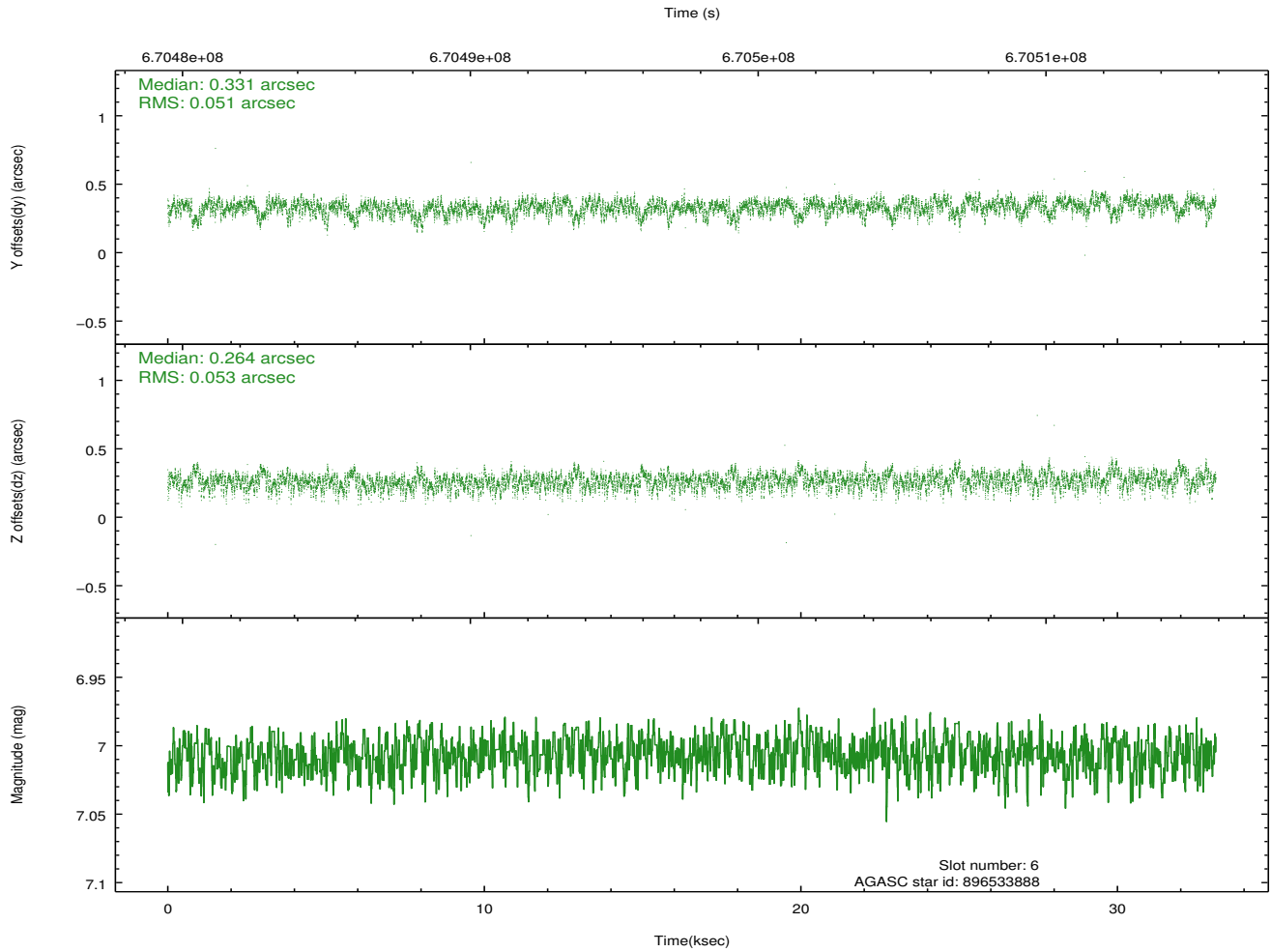
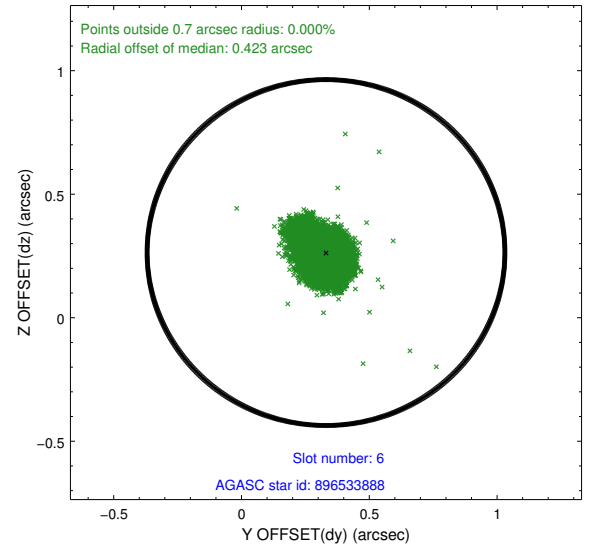
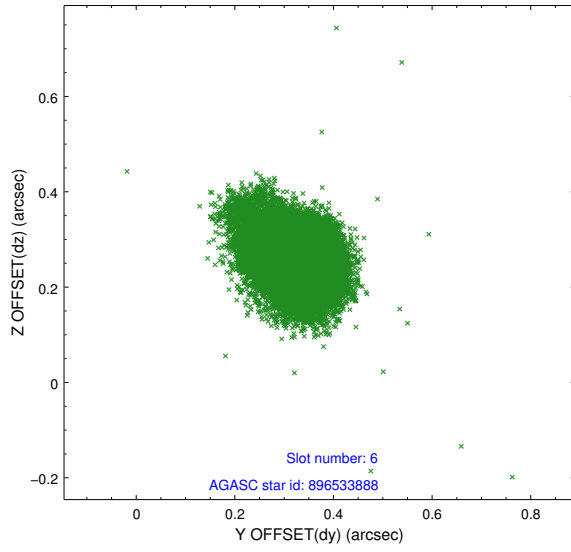
2.4.2 Slot 4



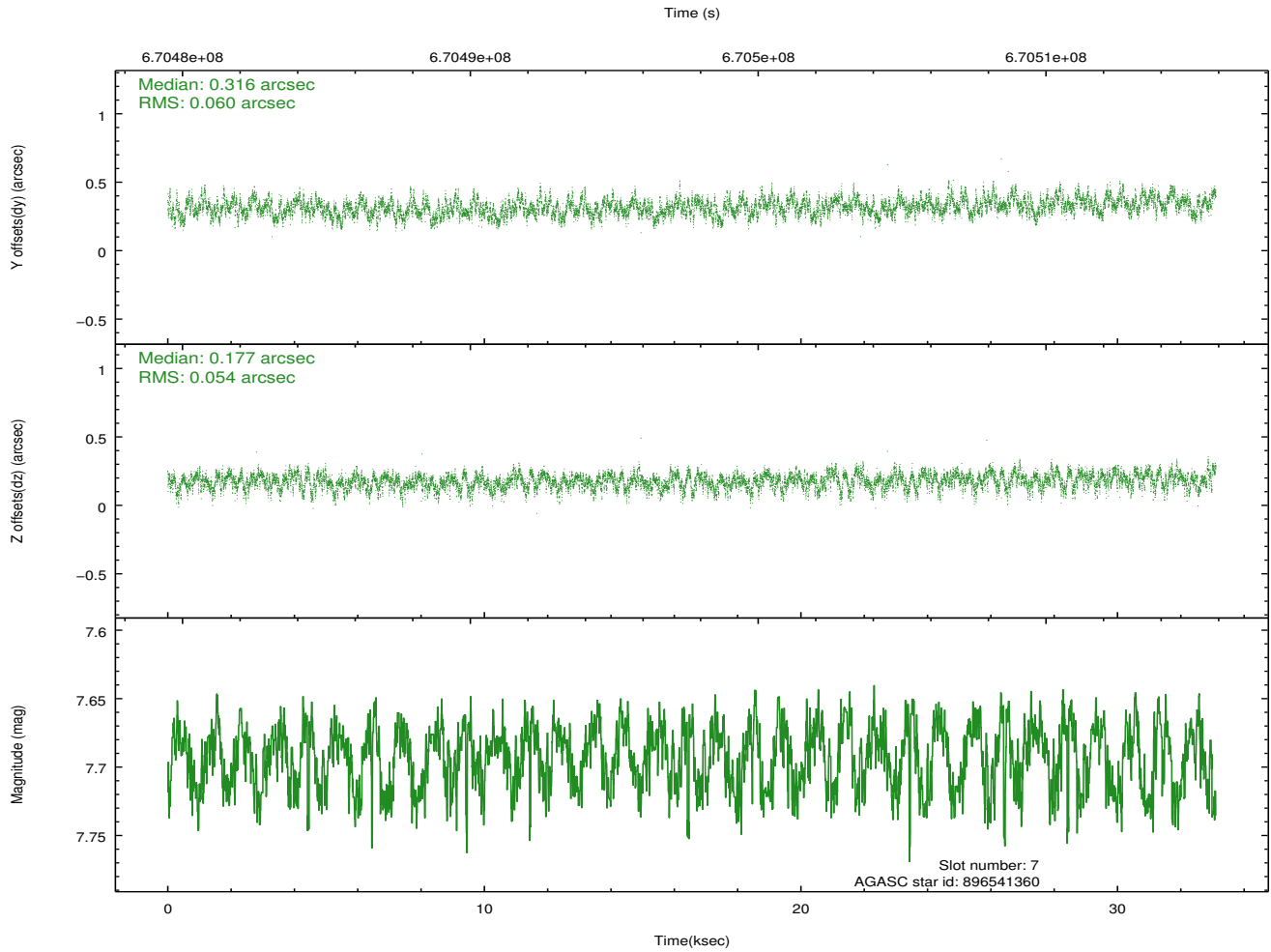
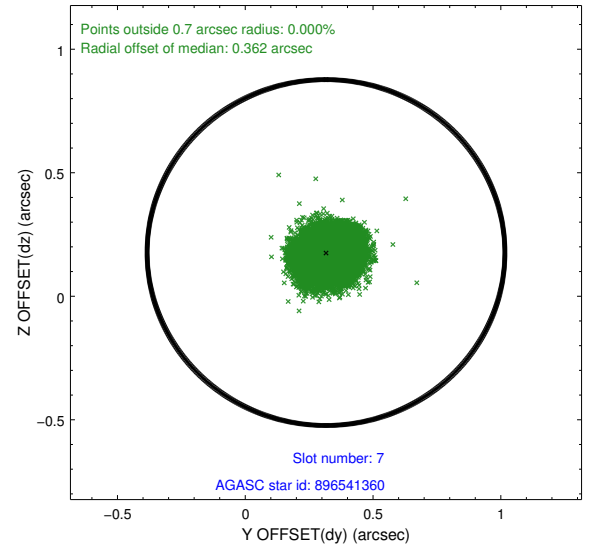
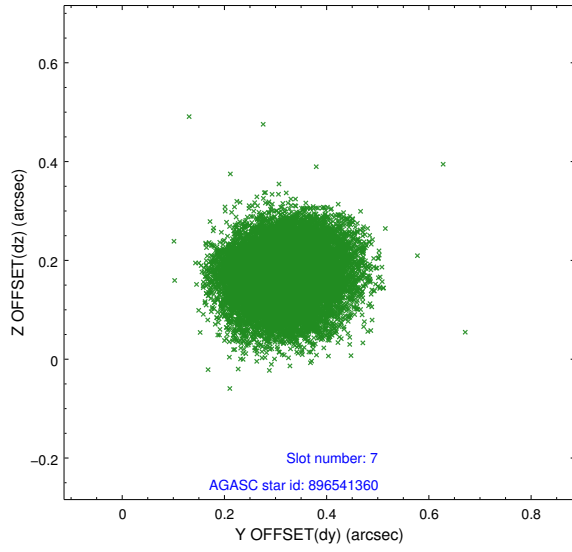
2.4.3 Slot 5



2.4.4 Slot 6

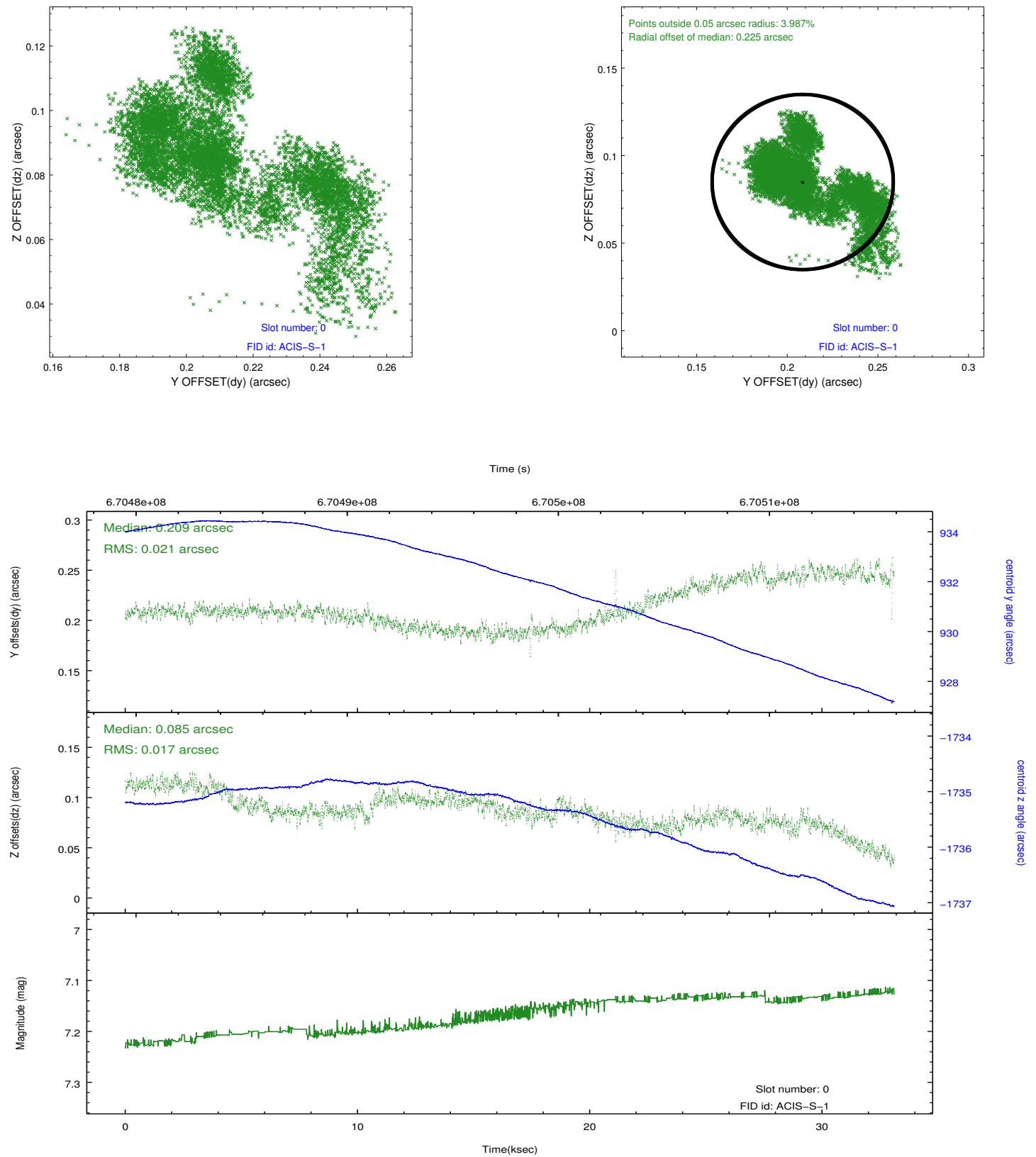


2.4.5 Slot 7

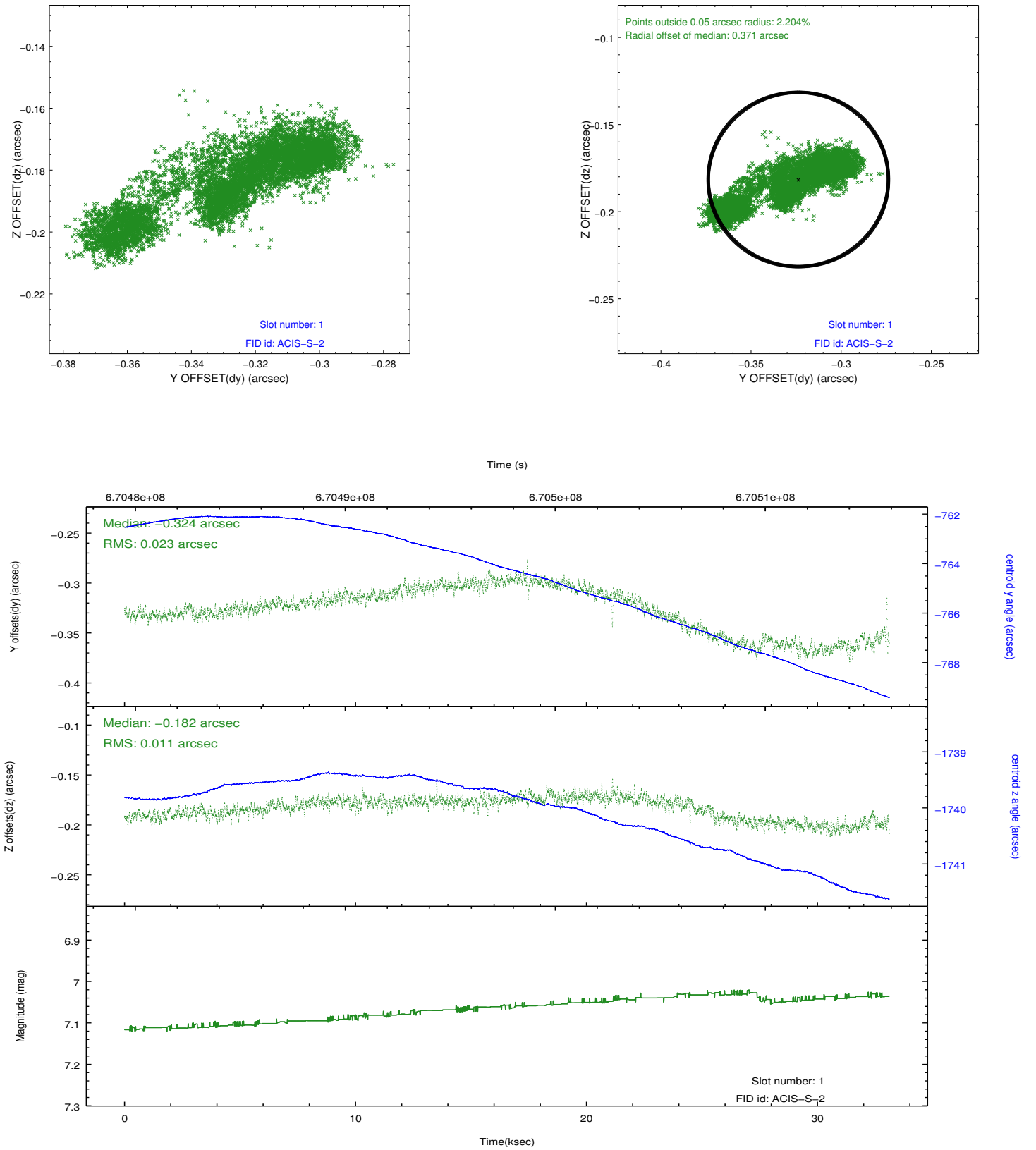


2.5 FID Slots

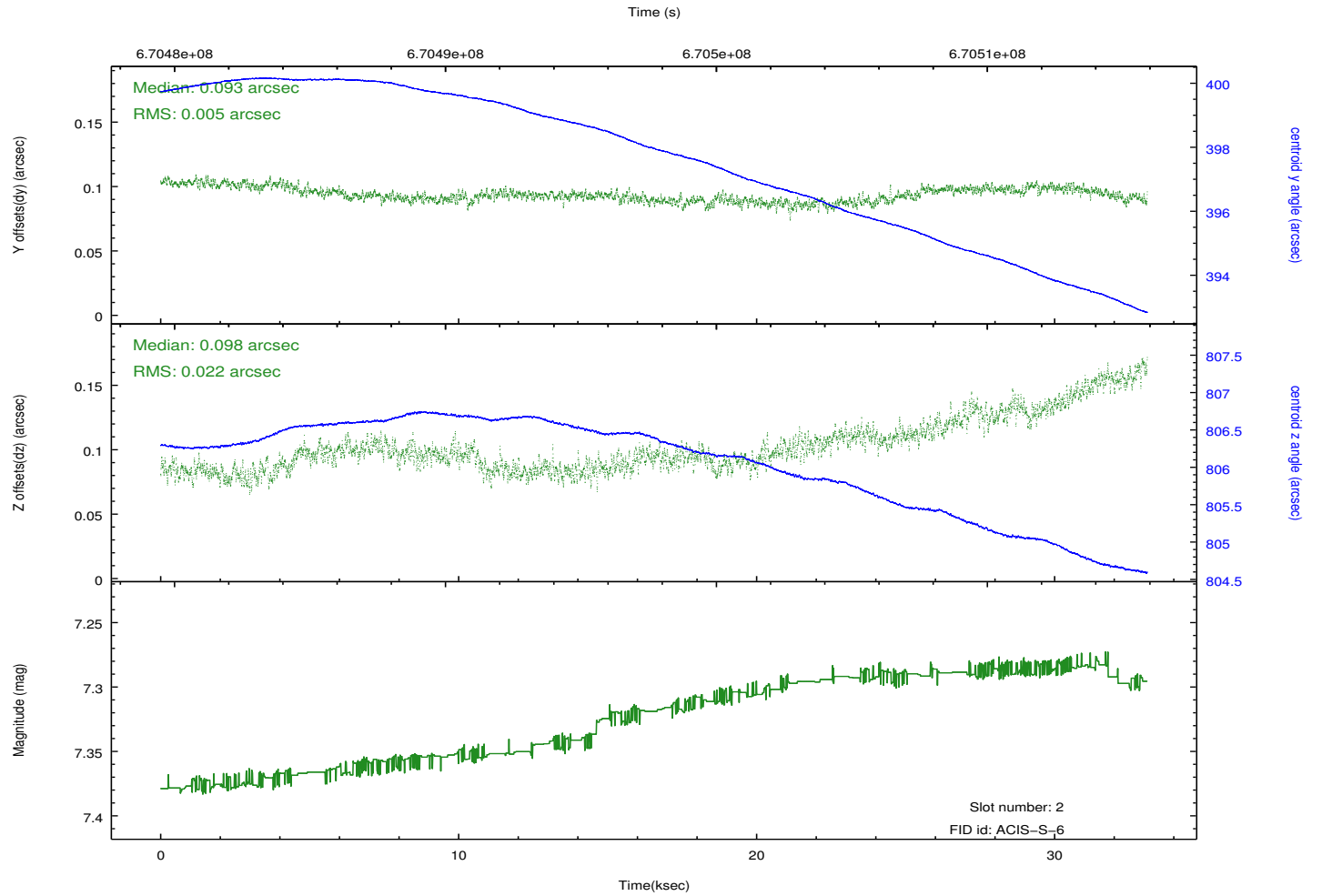
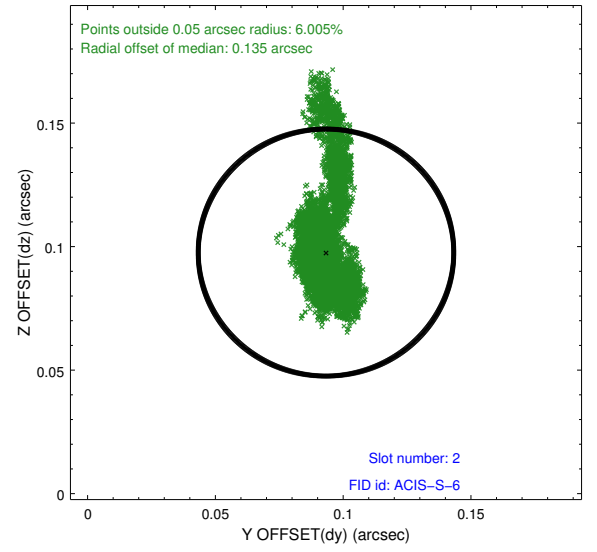
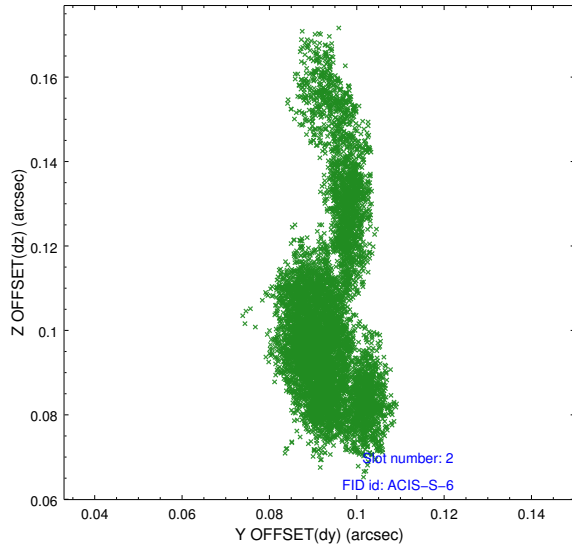
2.5.1 Slot 0



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)	2019.04.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.069194272876

A.2 Comments