

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19727 - L2 Version 1
Chandra X-Ray Center

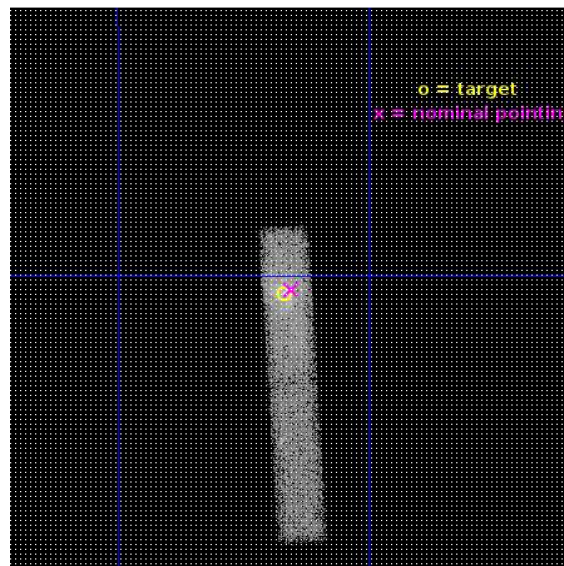
L2 Processing Date : Apr 7 2017

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1 Front

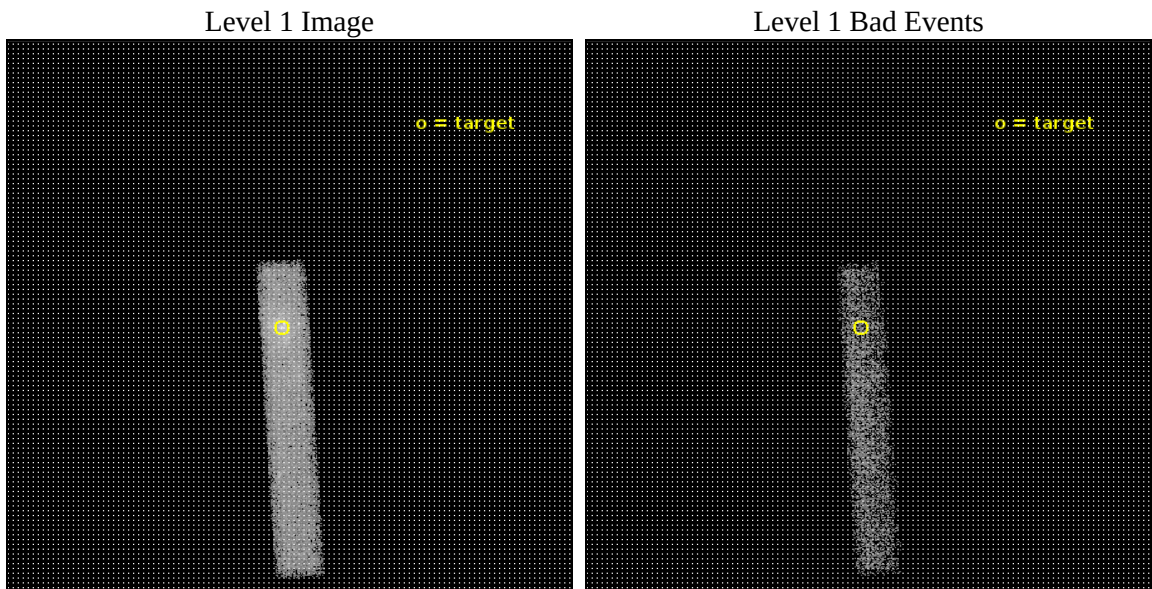
seq_num	601404	Sequence number
obs_id	19727	Observation id
title	How Does the Periastron Passage of Star S2 (S0-2) Affect the Sgr A* Accretion Flow?	Proposal title
observer	Gordon Garmire	Principal investigator
object	SgrA*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007833	Observer's specified target Dec [deg]
ra_nom	266.41317416384	Nominal RA [deg]
dec_nom	-29.006137467645	Nominal Dec [deg]
roll_nom	86.587365154133	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30652.24124217	Sum of GTIs [s]
livetime	27799.964848694	Livetime [s]
ontime7	30652.24124217	Sum of GTIs [s]
l2events	31439	Number of level 2 events



2 OBI

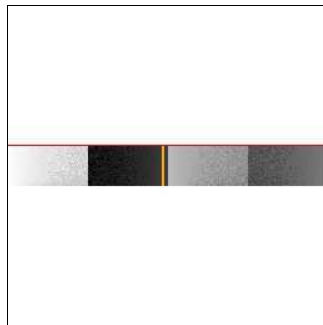
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30583.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	30652.24124217	Sum of GTIs [s]
caldsver	4.7.3	 	ontime7	30652.24124217	Sum of GTIs [s]
date	2017-04-07T22:32:16	Date and time of file creation	l1events	51116	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

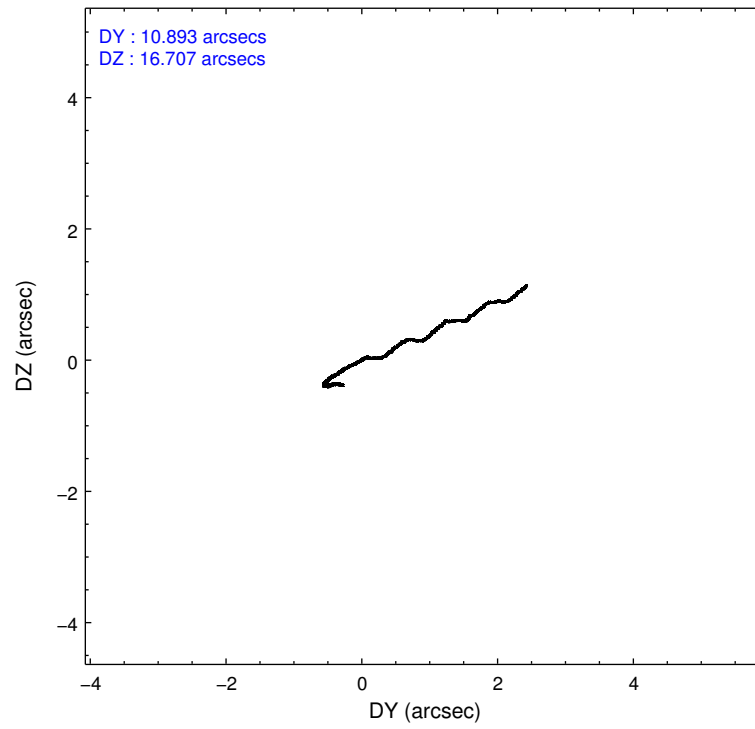
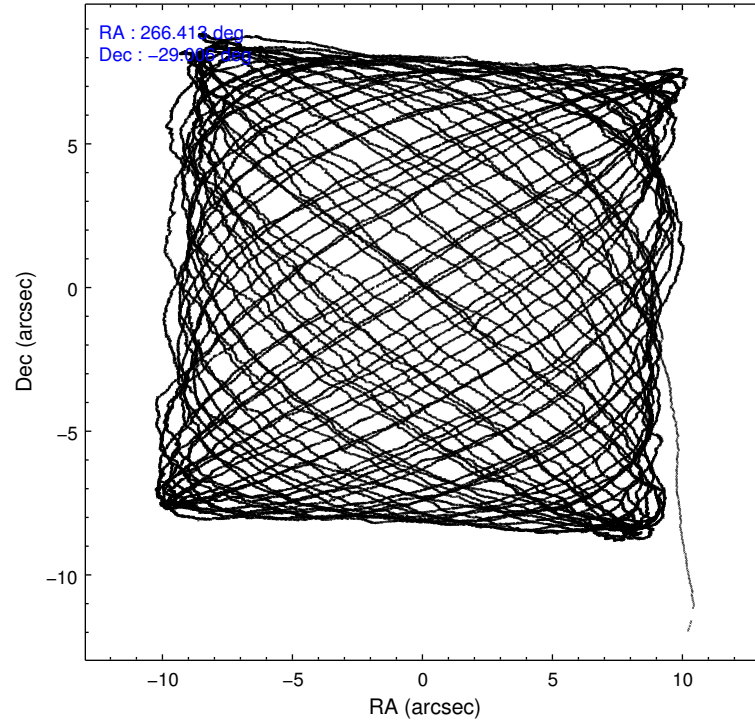
	ccd 7
level 1 events	51116
rejected events	18830
rejected %	36%

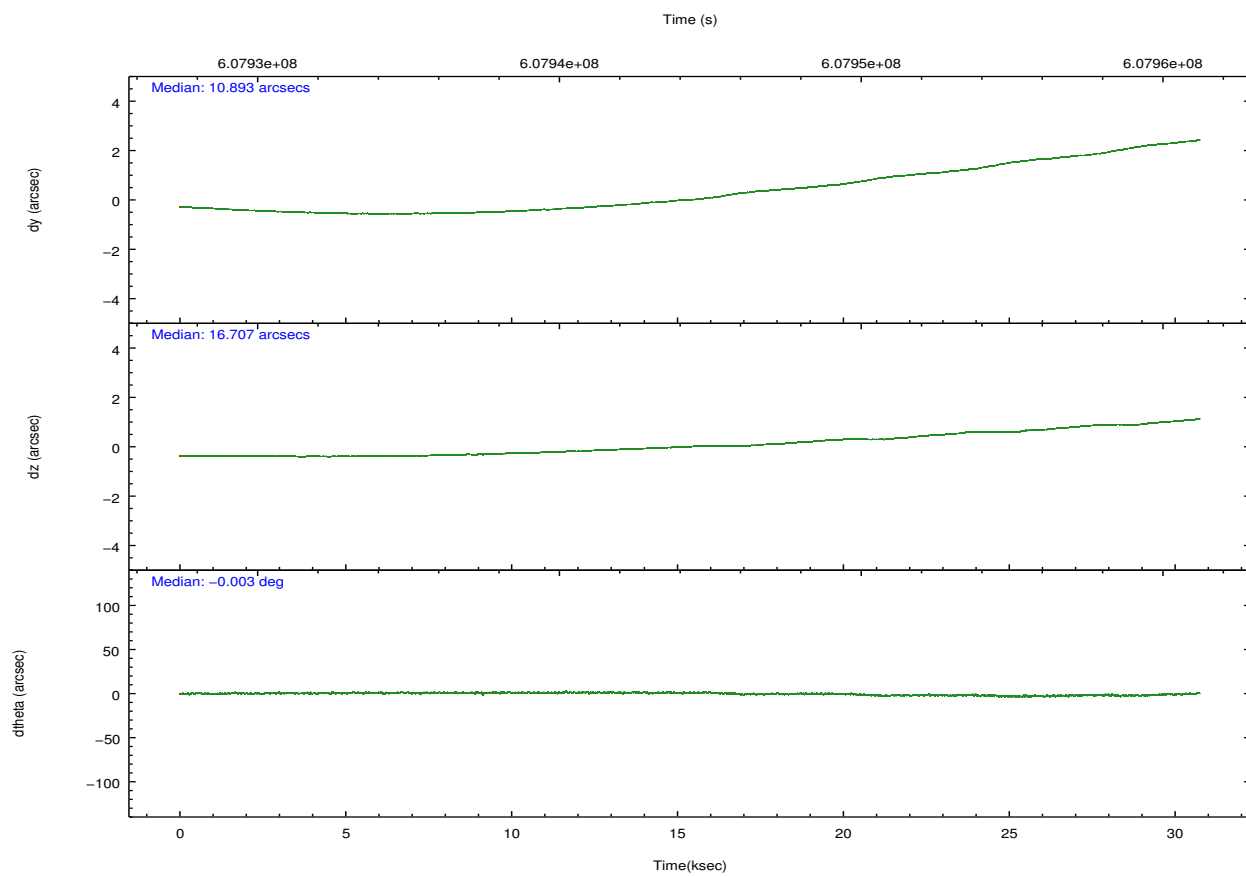
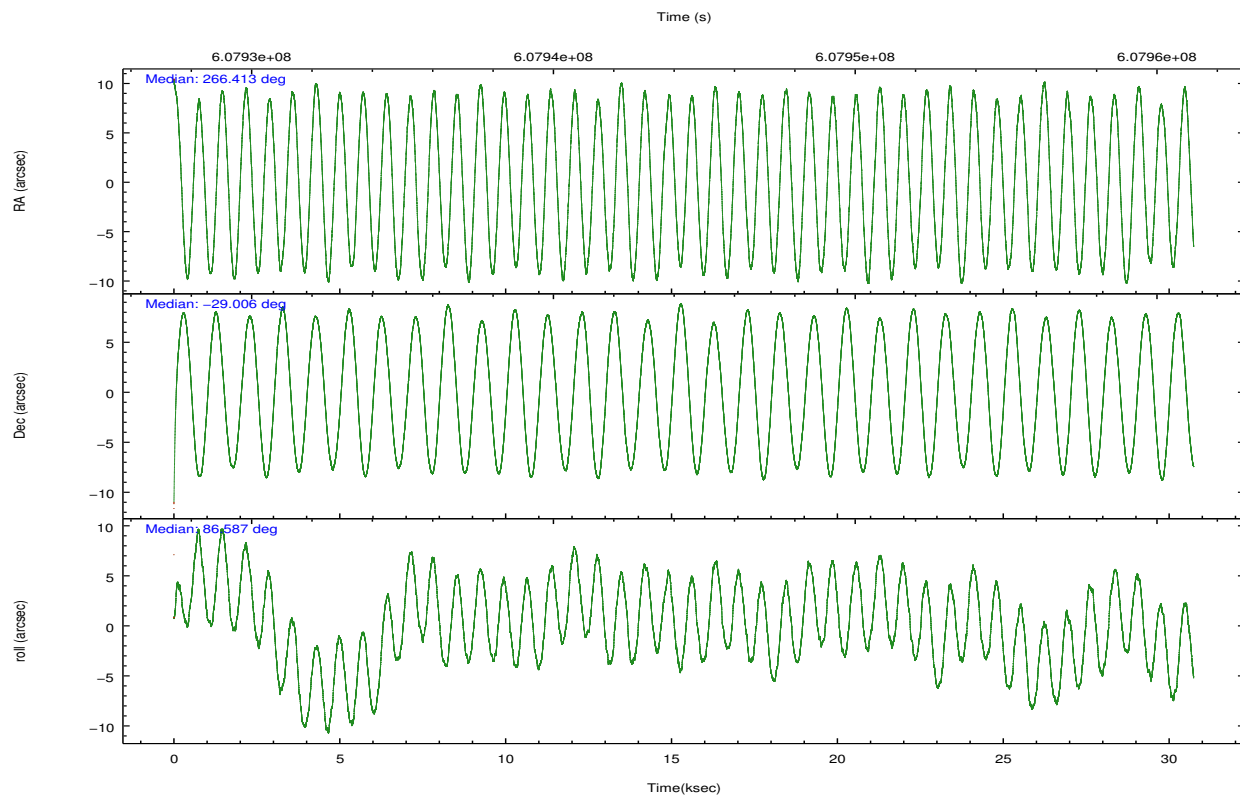
	ccd 7
grade 0 events	4681
	9%
grade 1 events	67
	0%
grade 2 events	6833
	13%
grade 3 events	3868
	7%
grade 4 events	3754
	7%
grade 5 events	3675
	7%
grade 6 events	13150
	25%
grade 7 events	15088
	29%

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	266.427576	266.4131741638426	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.030524	-29.00613746764452	Subarray start row	449	449
[deg] Pointing Roll	86.437722	86.58736515413257	Subarray row count	128	128
[s] Window start time (MET)	607924869.184000	607924869.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	607960869.184000	607960869.184000	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	607929124.184000	607928238.80769			
Observation start date	2017-04-07T05:10:55	2017-04-07T04:57:18			
[s] Observation end time (MET)	607959707.184000	607960420.73457			
Observation end date	2017-04-07T13:40:38	2017-04-07T13:53:40			
Read mode	TIMED	TIMED			

2.3 Aspect



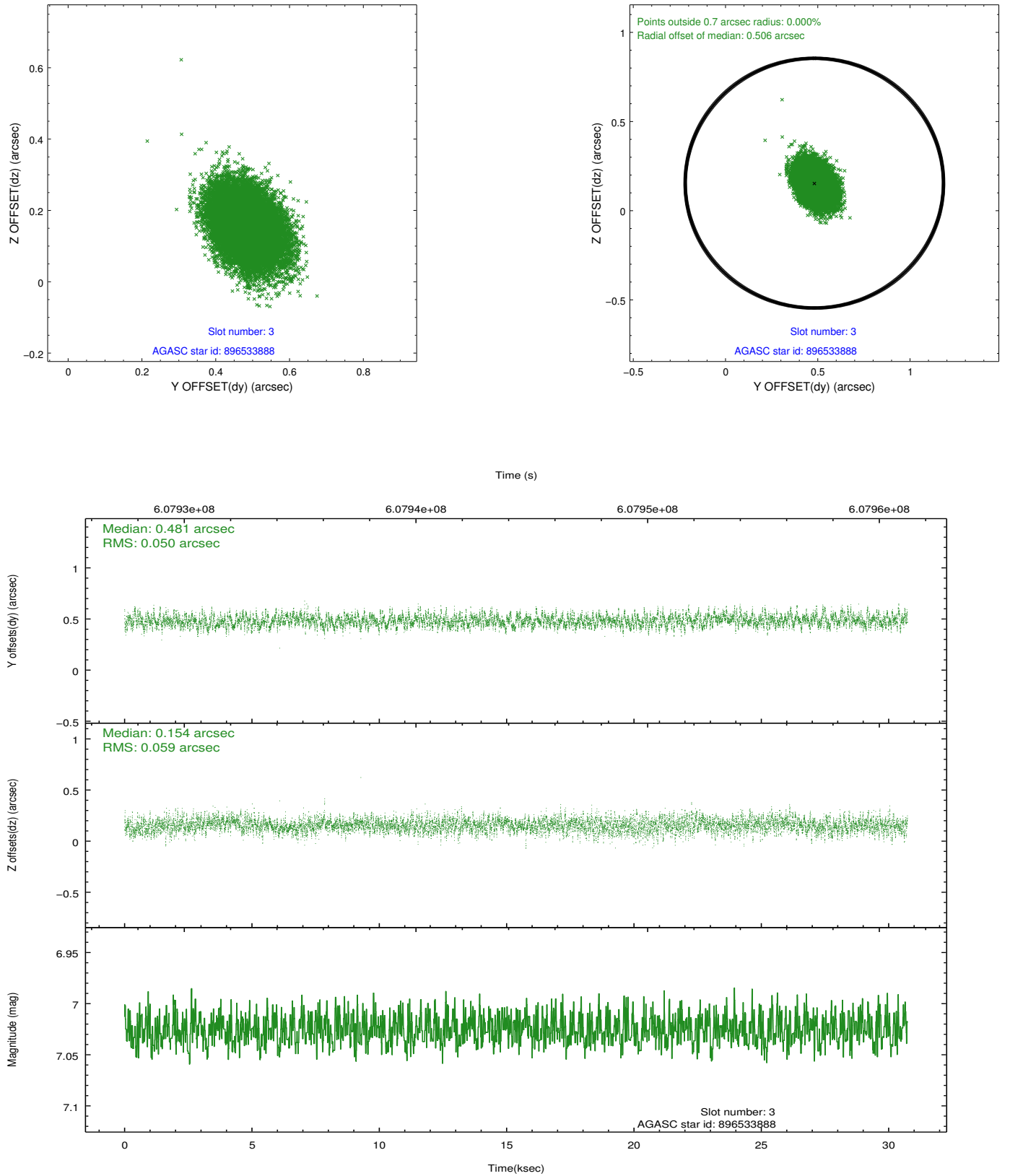


Slot Statistics

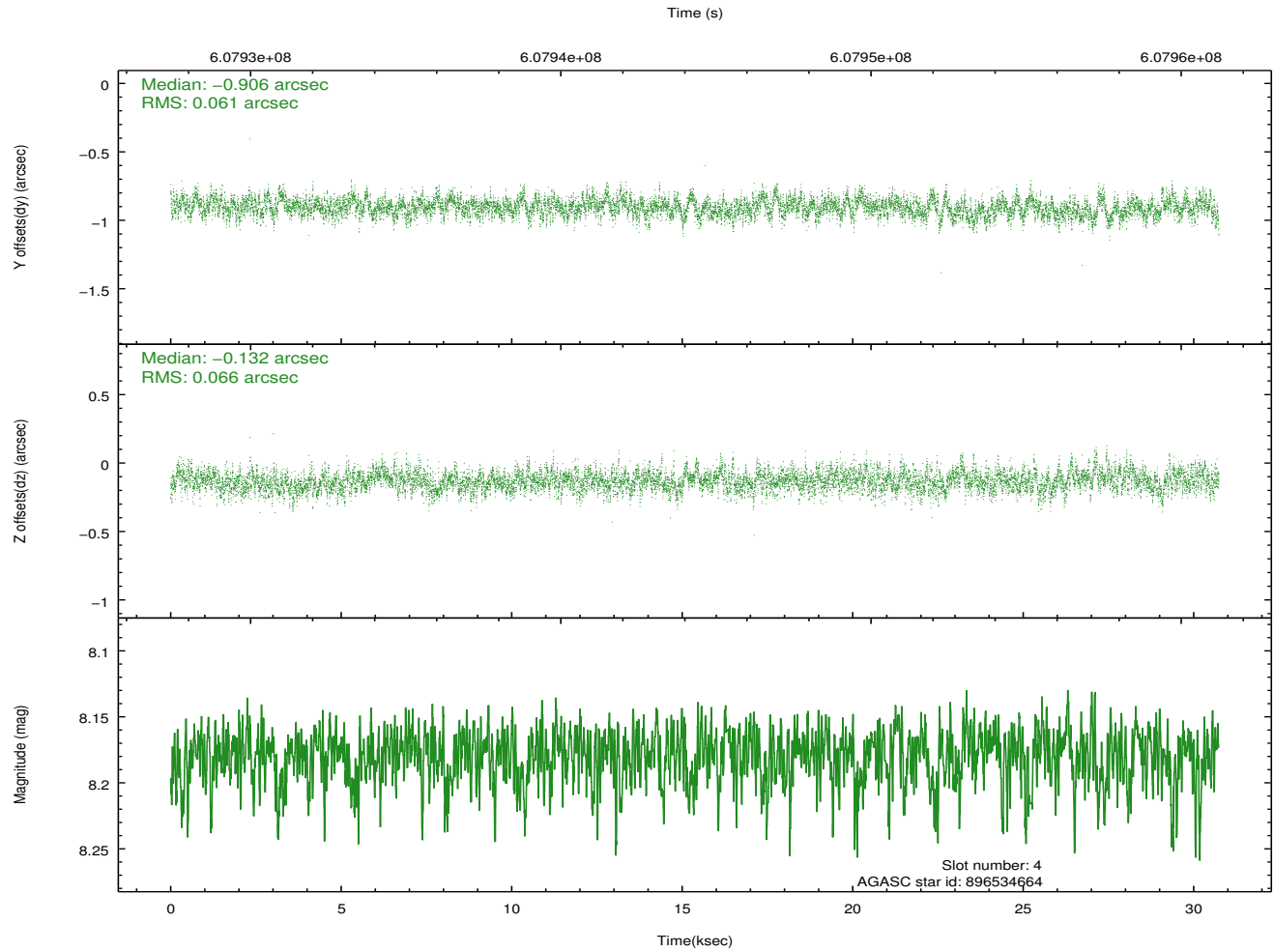
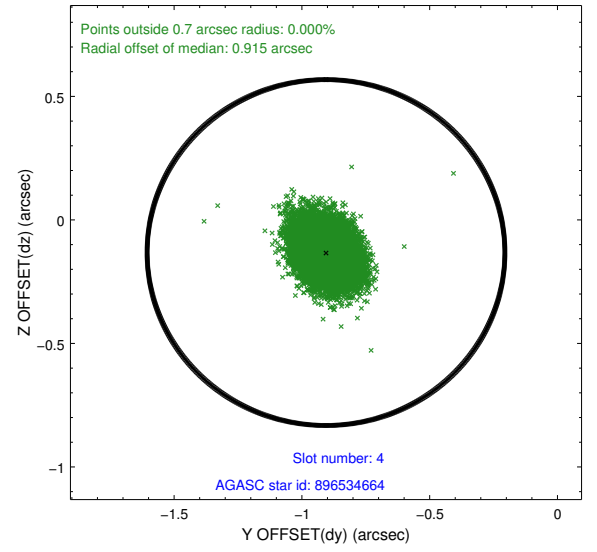
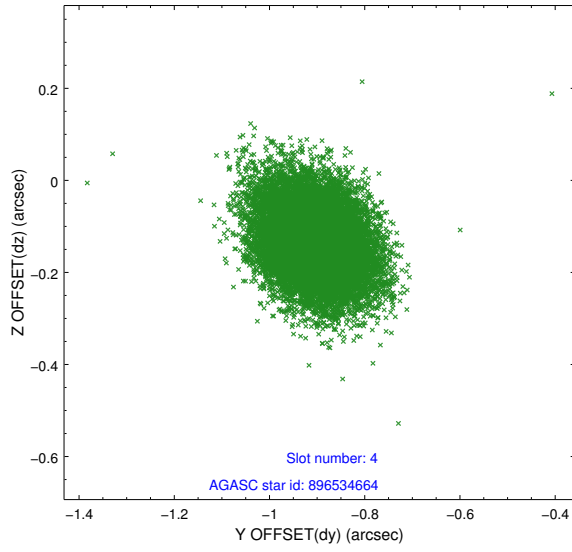
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	7498	-0.012	-0.058	0.024	0.058	0.000000	0.000000	-764.19	-1738.24
1	FID		ACIS-S-5	7.21	7498	-0.187	-0.020	0.028	0.067	0.000000	0.000000	-1817.48	163.73
2	FID		ACIS-S-6	7.34	7498	0.174	0.084	0.019	0.029	0.000000	0.000000	397.57	807.77
3	GUIDE	used	896533888	7.03	14995	0.481	0.154	0.082	0.135	266.666434	-29.392757	-1255.32	-828.51
4	GUIDE	used	896534664	8.18	14989	-0.906	-0.132	0.095	0.156	266.405570	-28.407461	2233.29	208.94
5	GUIDE	used	896537176	8.01	14985	-0.005	0.175	0.082	0.137	266.498272	-28.678259	1279.58	-143.68
6	GUIDE	used	896537776	7.51	14992	0.742	0.168	0.090	0.149	266.655684	-29.665673	-2237.73	-854.01
7	GUIDE	used	896532680	8.73	14988	-0.320	-0.369	0.109	0.181	266.342632	-28.496299	1902.16	387.52

2.4 Star Slots

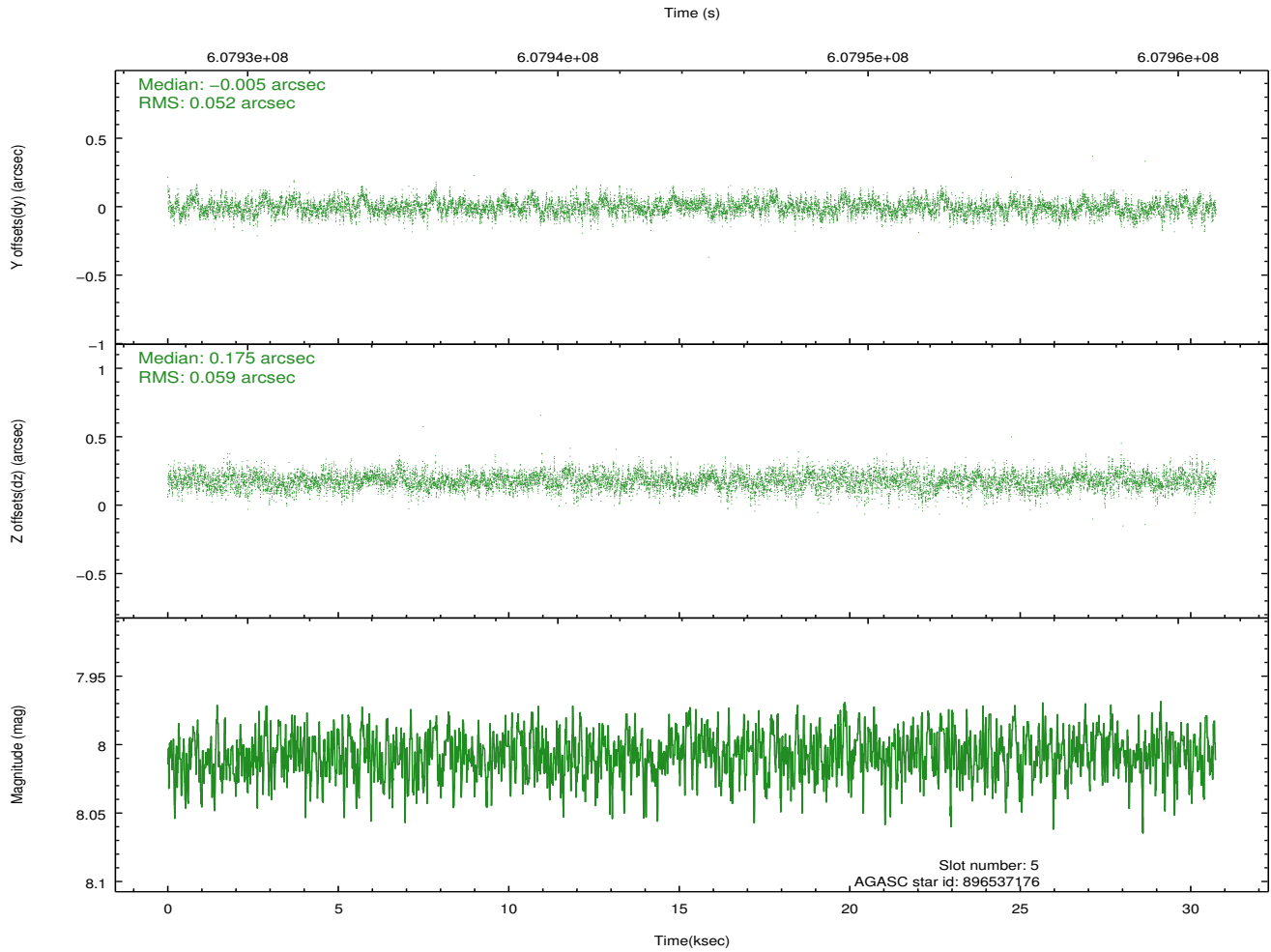
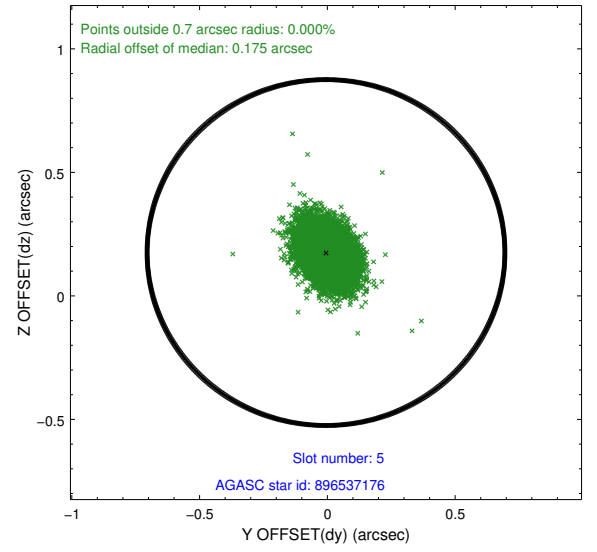
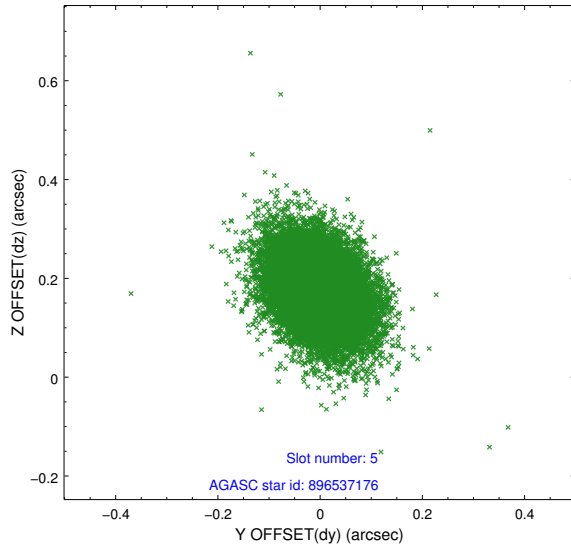
2.4.1 Slot 3



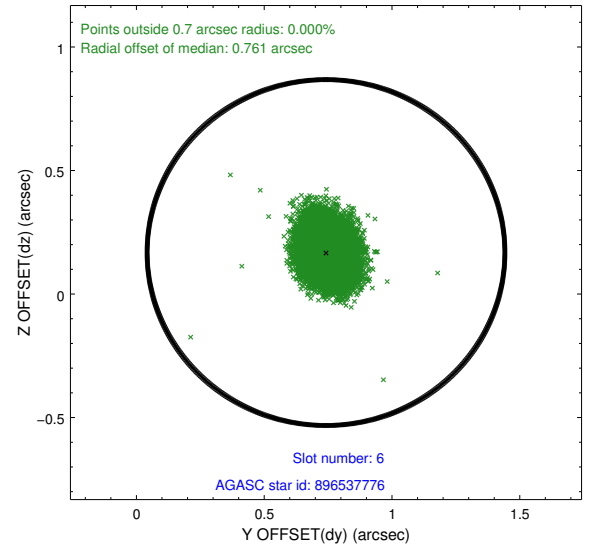
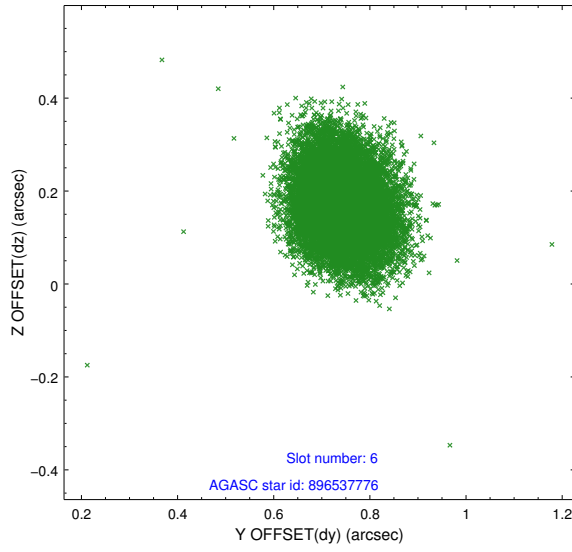
2.4.2 Slot 4



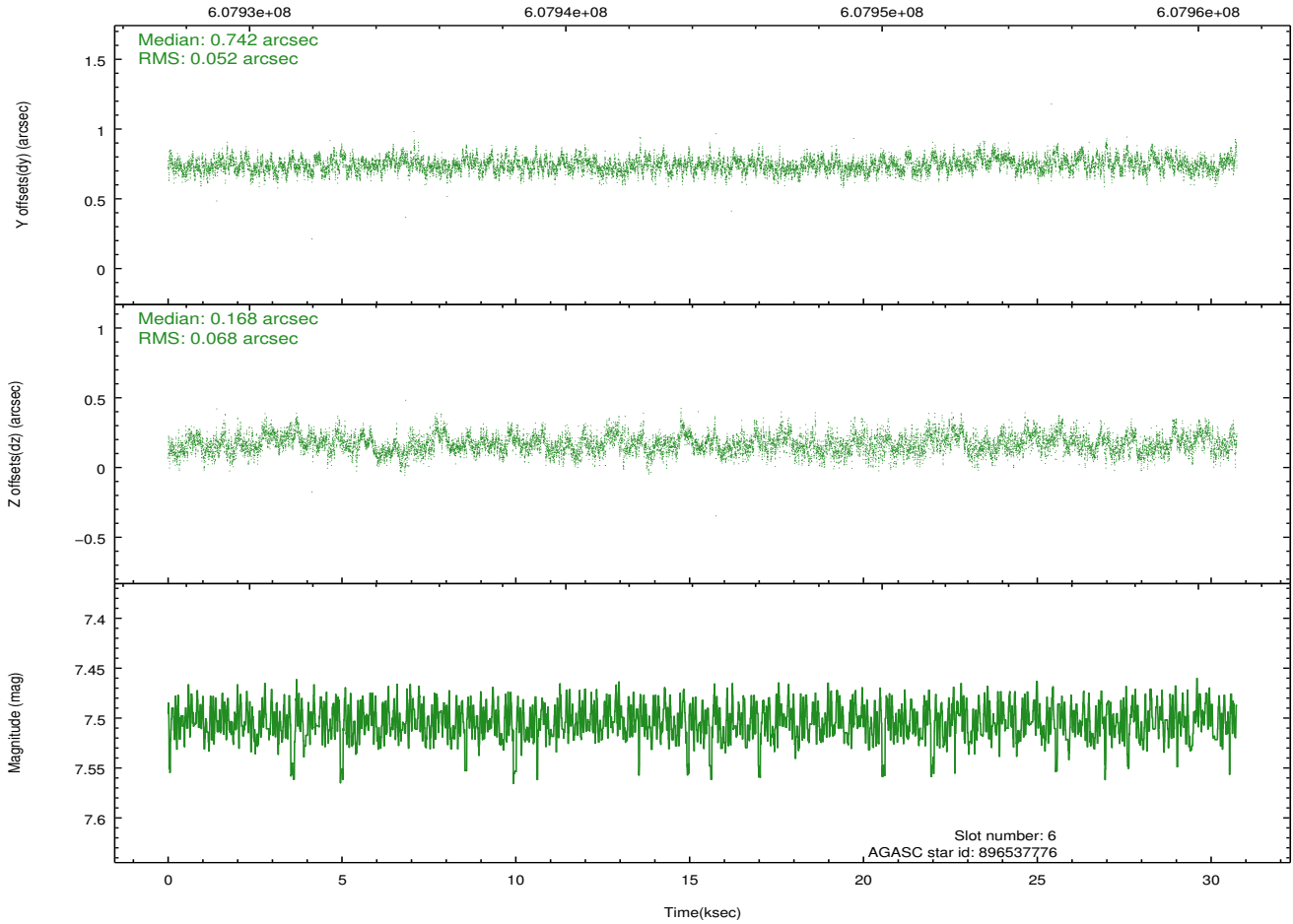
2.4.3 Slot 5



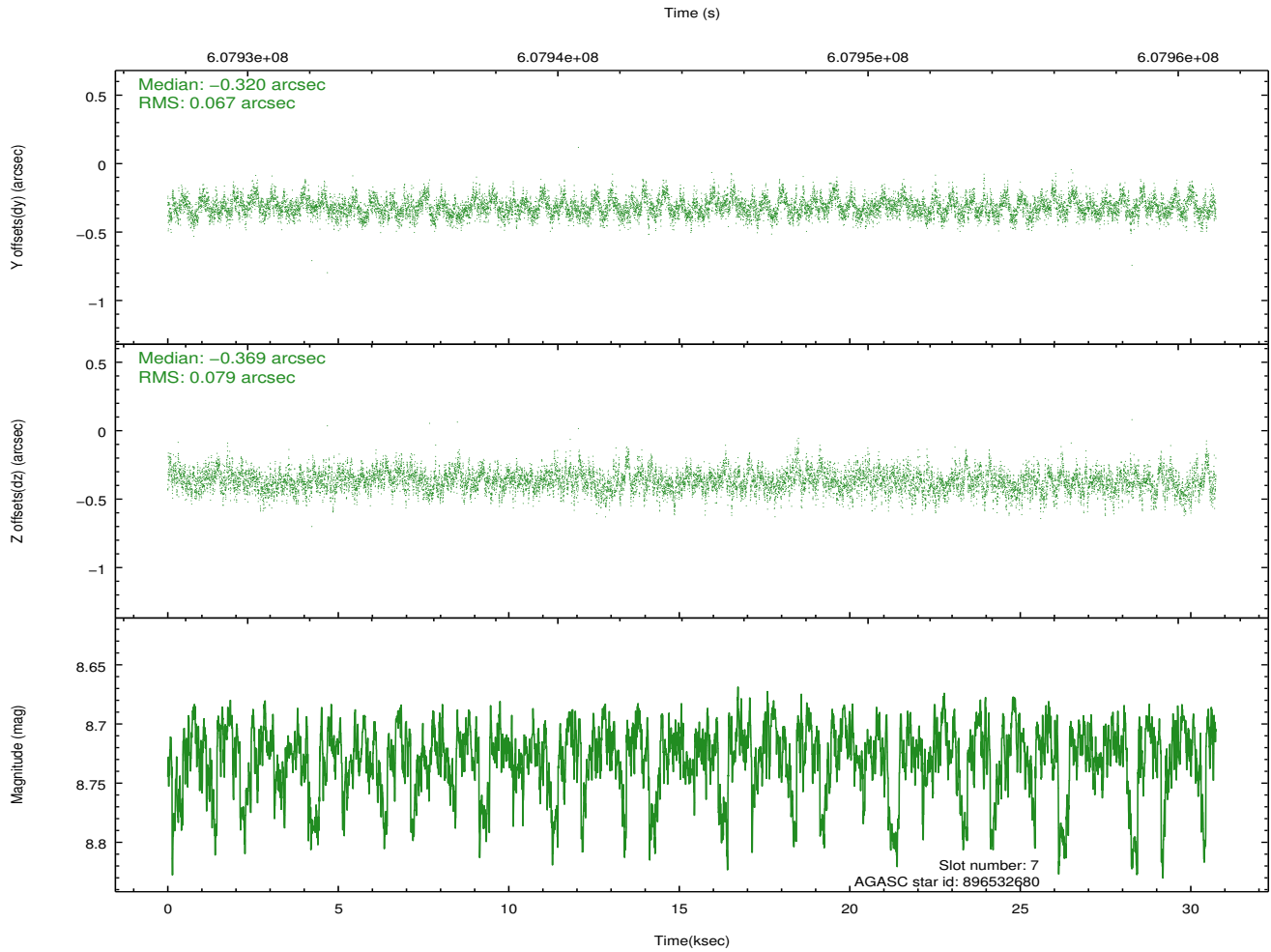
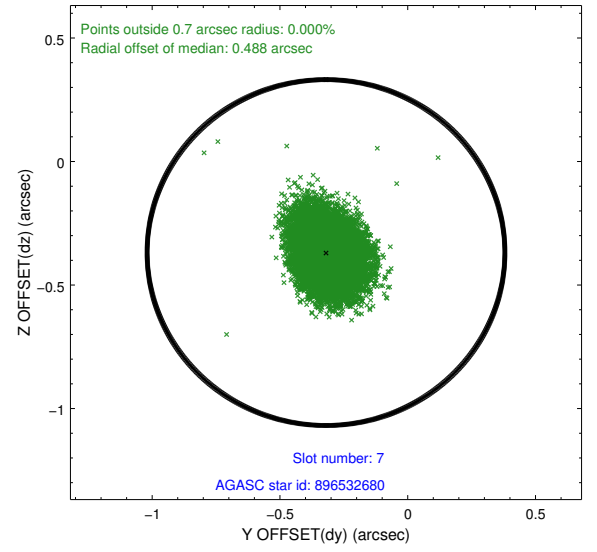
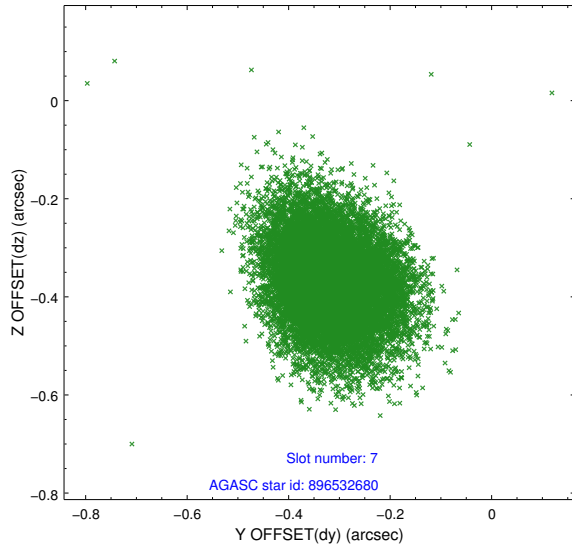
2.4.4 Slot 6



Time (s)

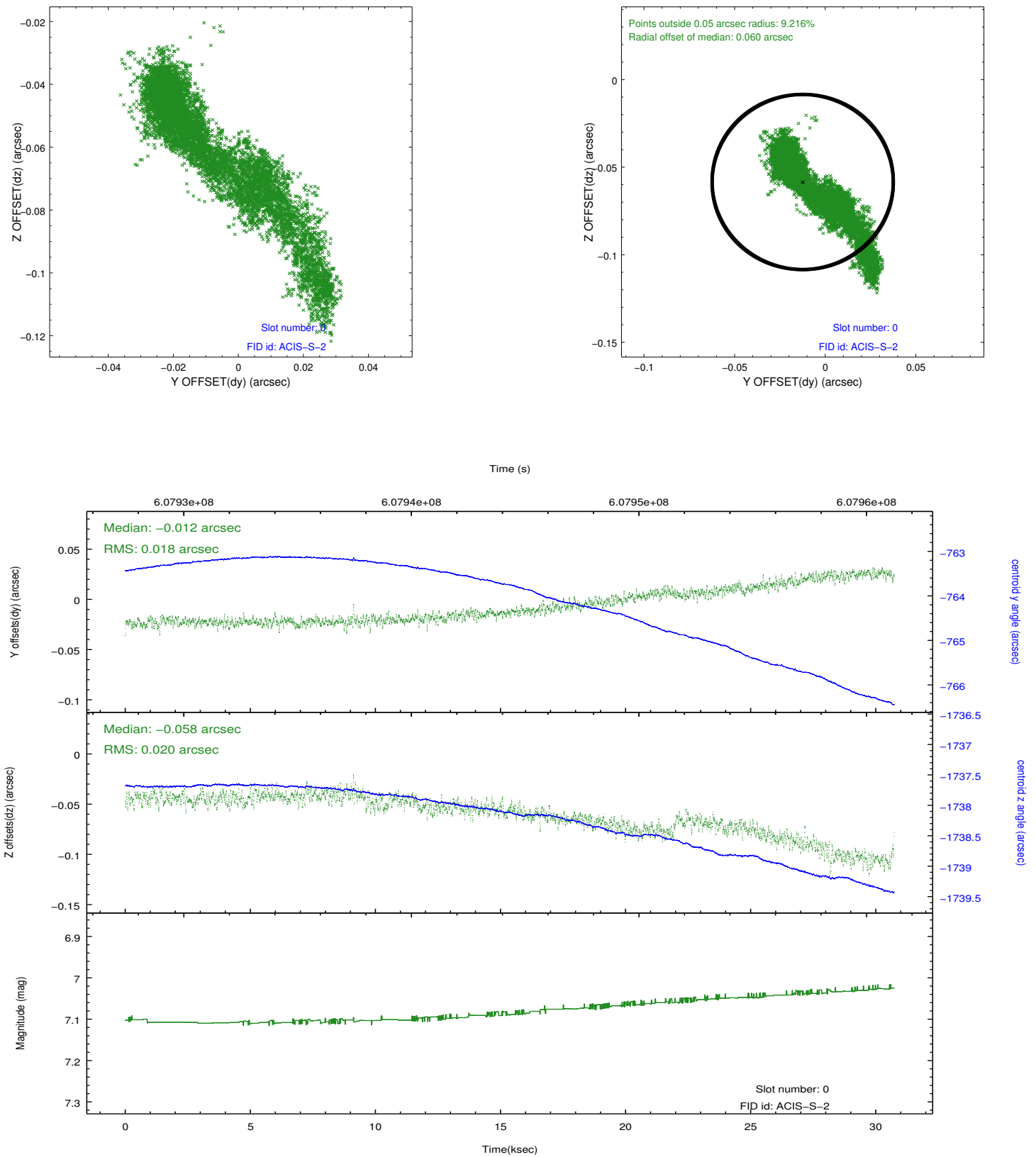


2.4.5 Slot 7

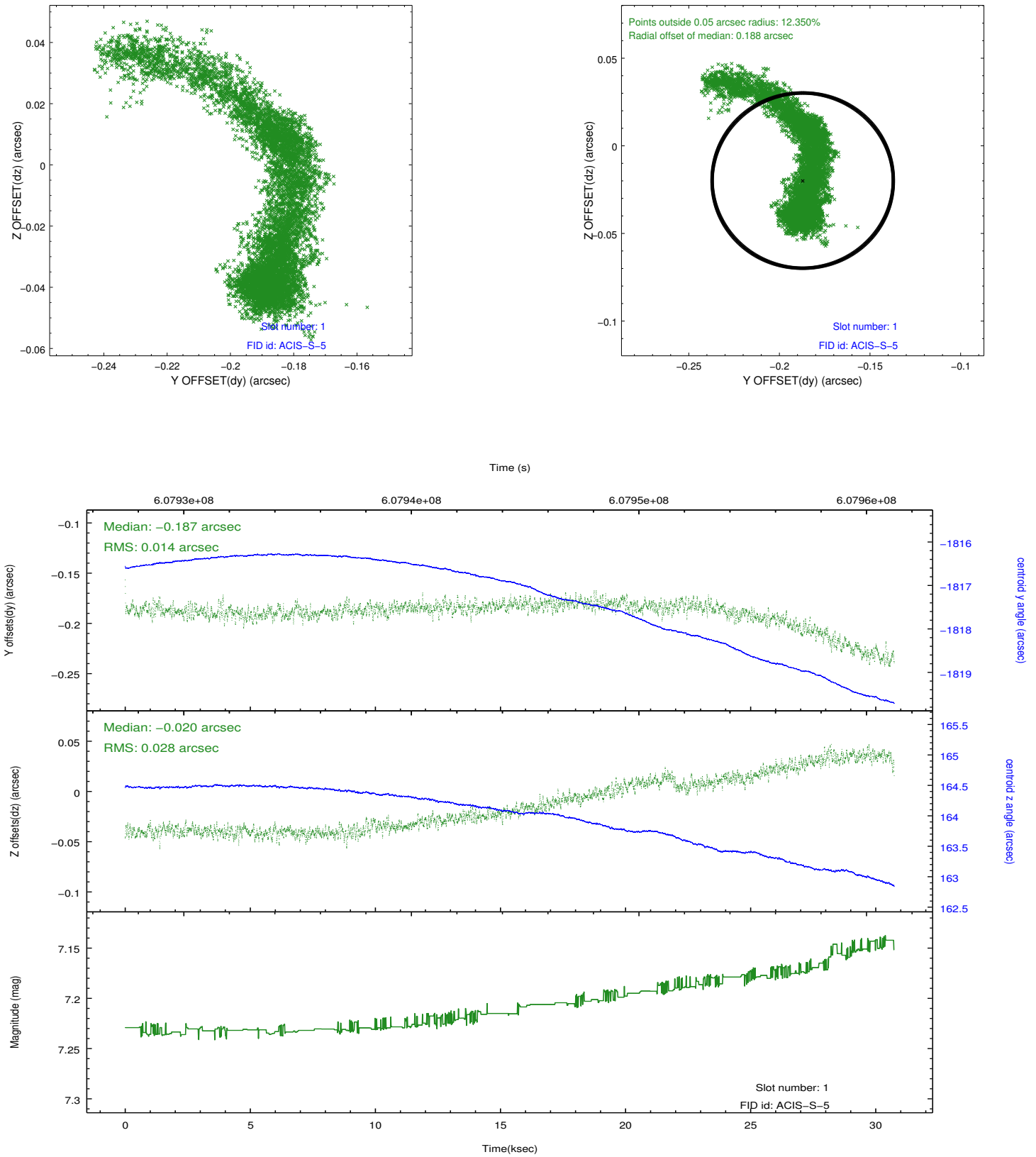


2.5 FID Slots

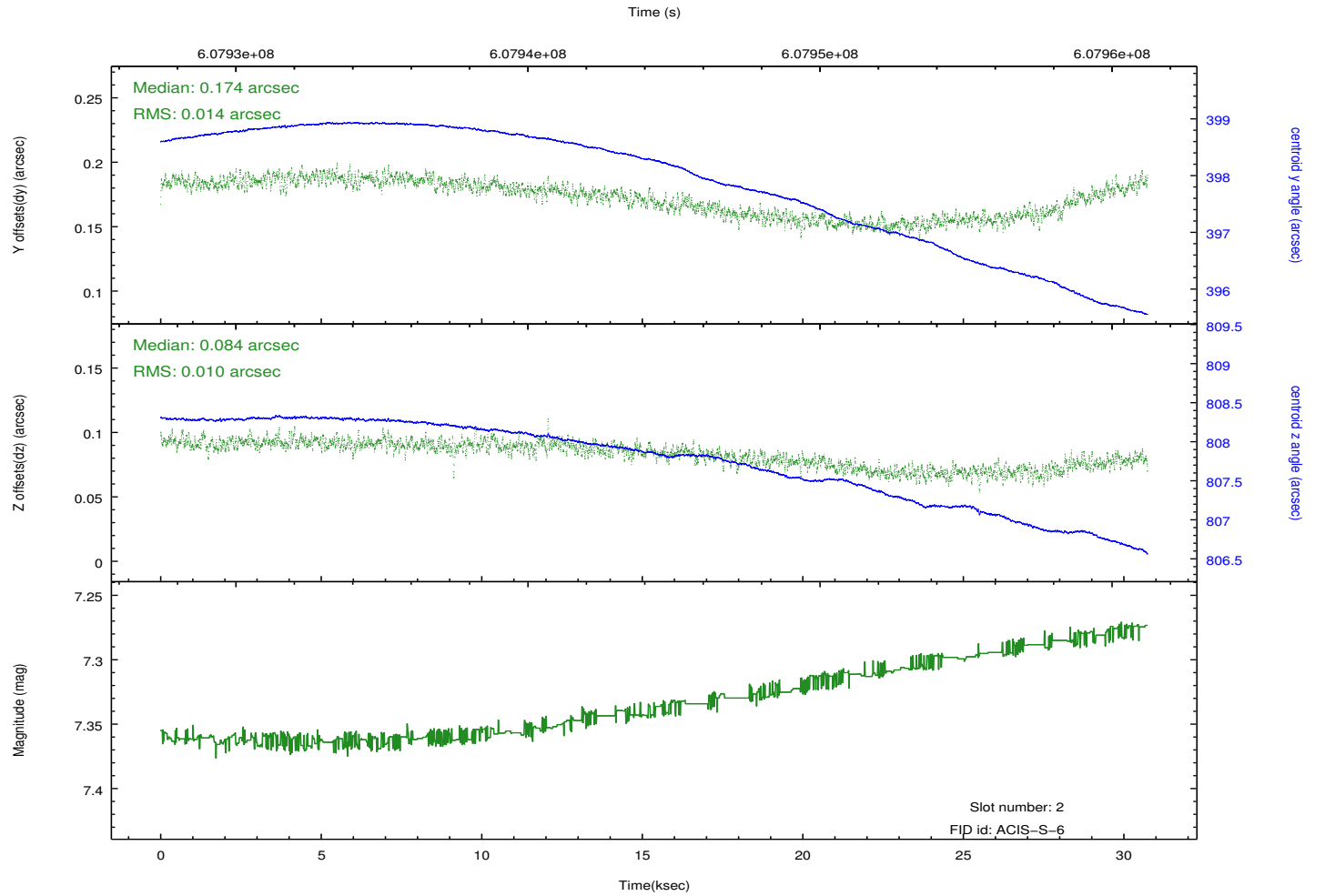
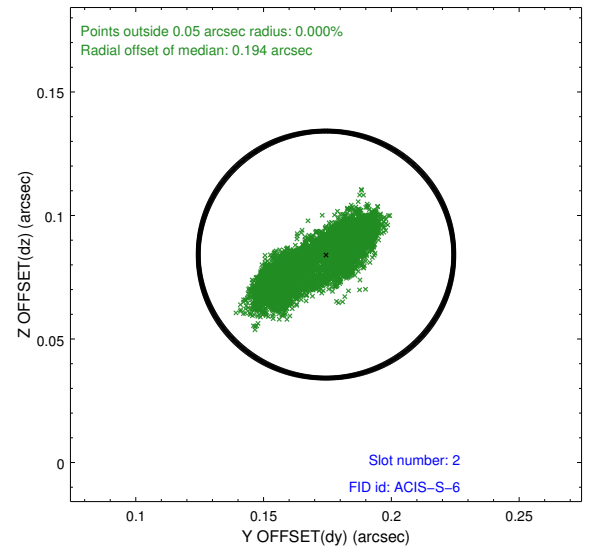
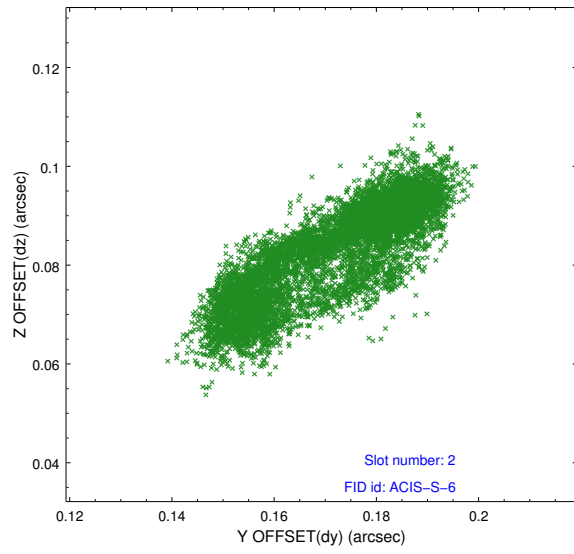
2.5.1 Slot 0



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)	2017.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.65224124217

A.2 Comments

Window preference met.