

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22285 - L2 Version 1
Chandra X-Ray Center

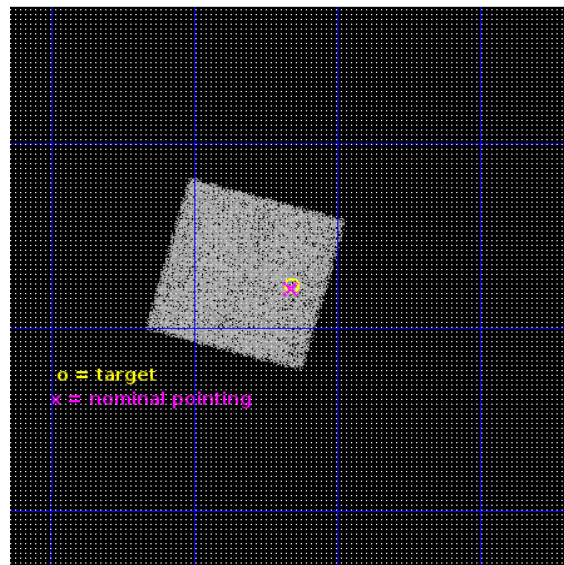
L2 Processing Date : Jul 14 2019

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1 Front

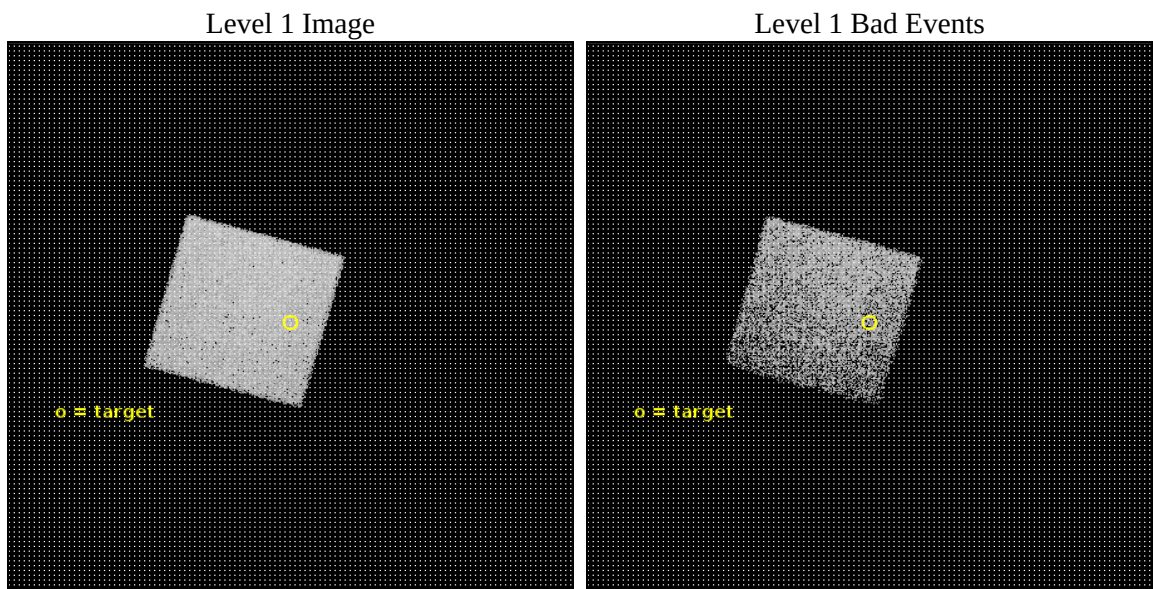
seq_num	402122	Sequence number
obs_id	22285	Observation id
title	Propeller effect in 4U1901+03 - measuring the spectrum after the transition	Proposal title
observer	Alexander Lutovinov	Principal investigator
object	4U 1901+03	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	285.914167	Observer's specified target RA [deg]
dec_targ	3.2045	Observer's specified target Dec [deg]
ra_nom	285.91476946307	Nominal RA [deg]
dec_nom	3.2018063882665	Nominal Dec [deg]
roll_nom	195.493926821	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9558.0	Sum of GTIs [s]
livetime	9429.0111277721	Livetime [s]
ontime7	9558.0	Sum of GTIs [s]
l2events	39213	Number of level 2 events



2 OBI

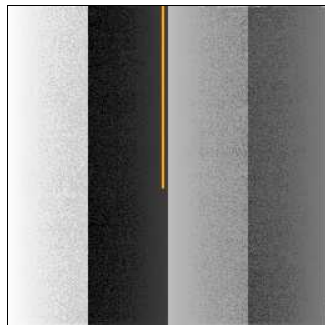
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9468.764000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	9558.0	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime7	9558.0	Sum of GTIs [s]
date	2019-07-14T23:35:54	Date and time of file creation	l1events	92344	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	92344
rejected events	52037
rejected %	56%

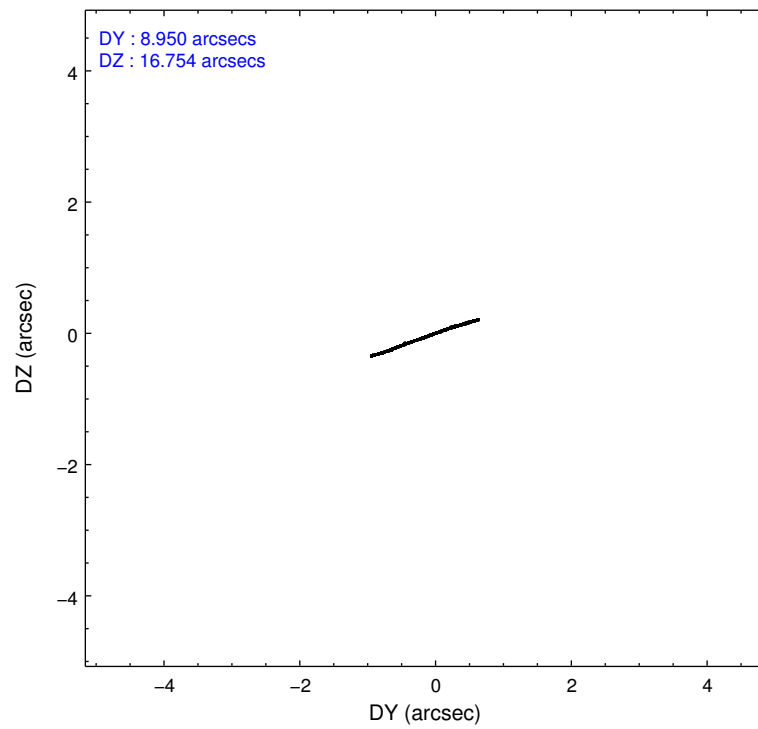
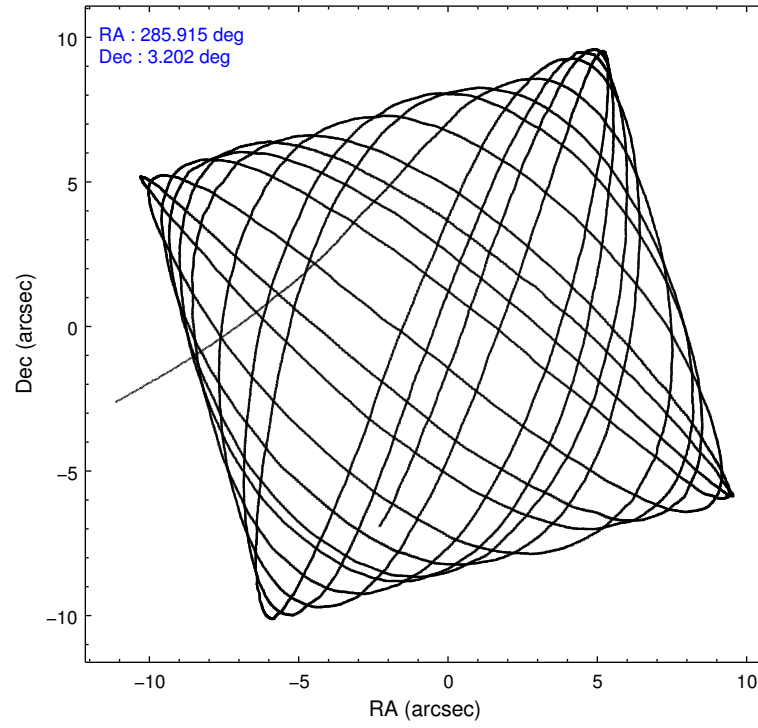
	ccd 7
grade 0 events	3363
	3%
grade 1 events	148
	0%
grade 2 events	8233
	8%
grade 3 events	3103
	3%
grade 4 events	3034
	3%
grade 5 events	8799
	9%
grade 6 events	22595
	24%
grade 7 events	43069
	46%

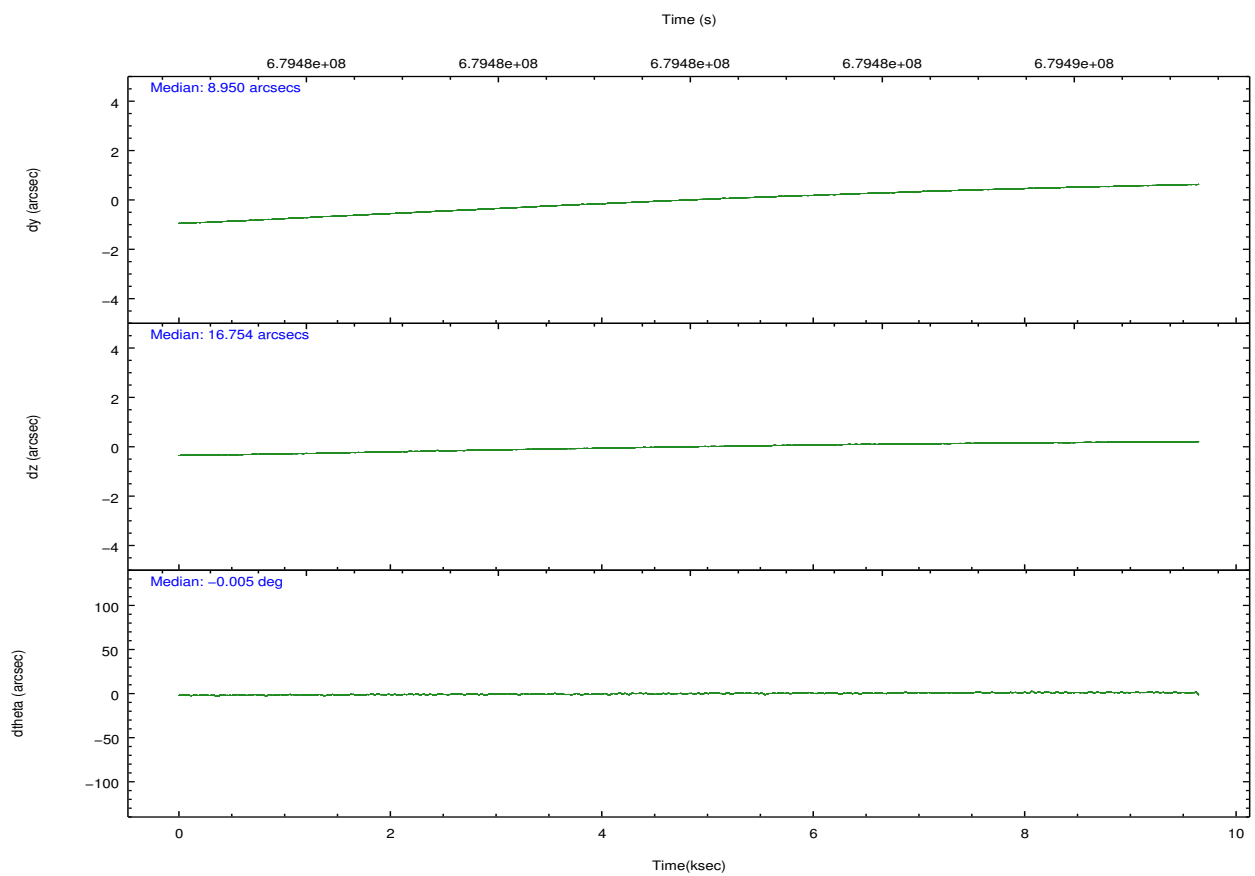
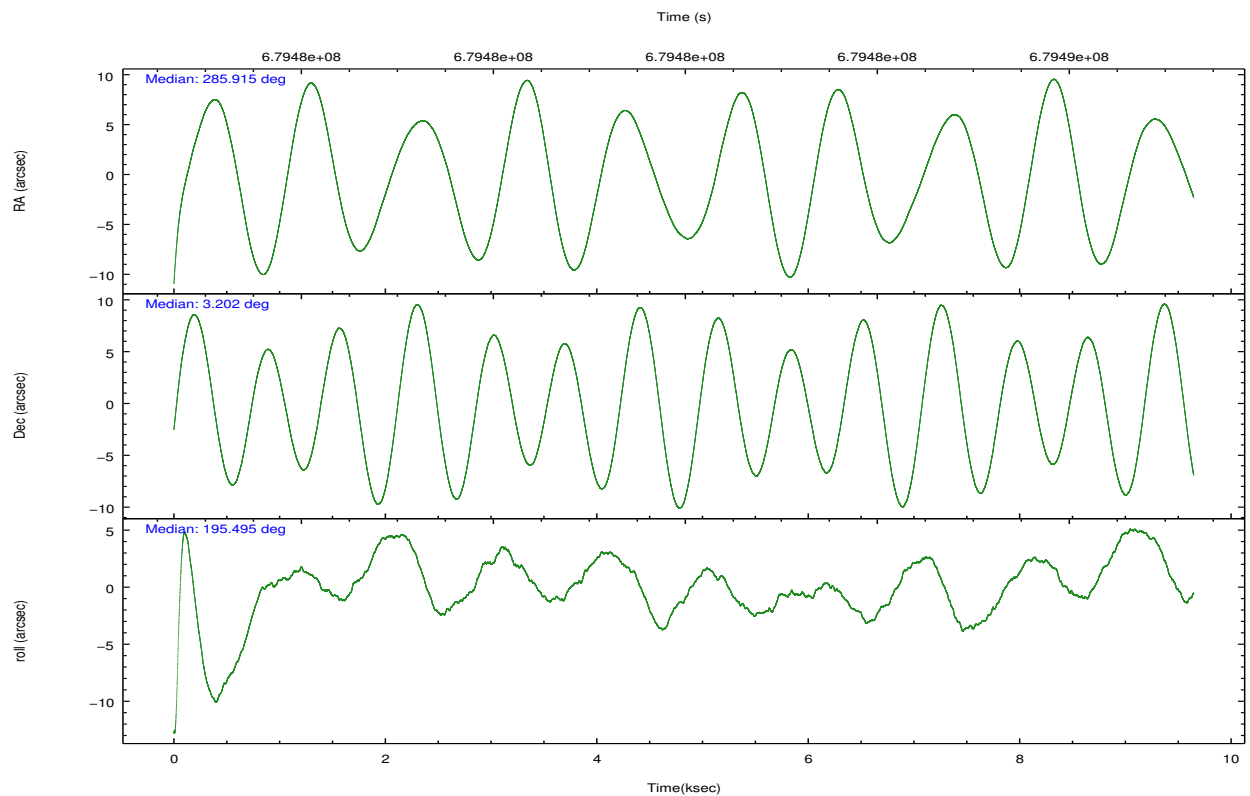
2.2 Compared Parameters

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	285.933723	285.9147694630668
[deg] Pointing Dec	3.221585	3.201806388266537
[deg] Pointing Roll	195.336250	195.493926821004
[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)	679477329.184000	679476244.31708
Observation start date	2019-07-14T07:41:00	2019-07-14T07:24:04
[s] Observation end time (MET)	679486797.184000	679488030.7927901
Observation end date	2019-07-14T10:18:48	2019-07-14T10:40:30
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3

2.3 Aspect



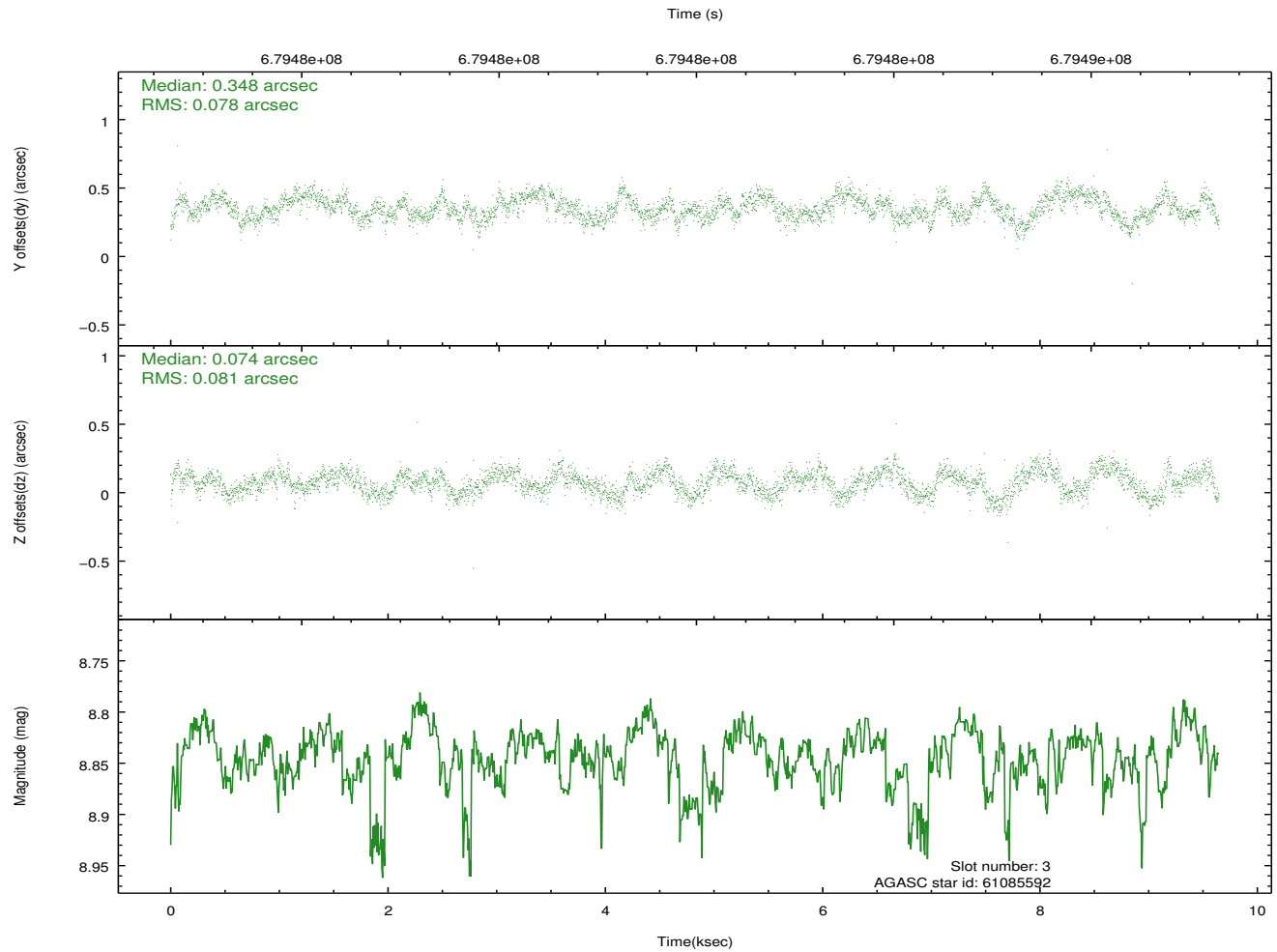
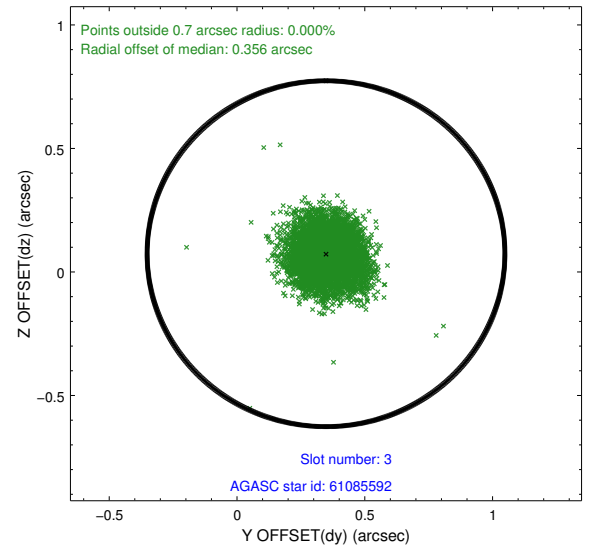
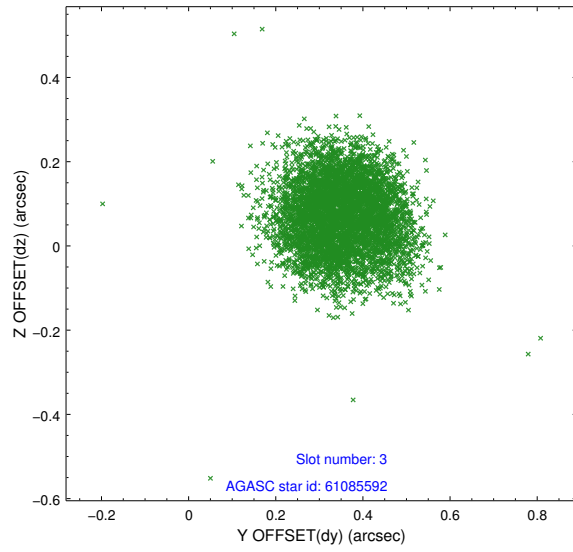


Slot Statistics

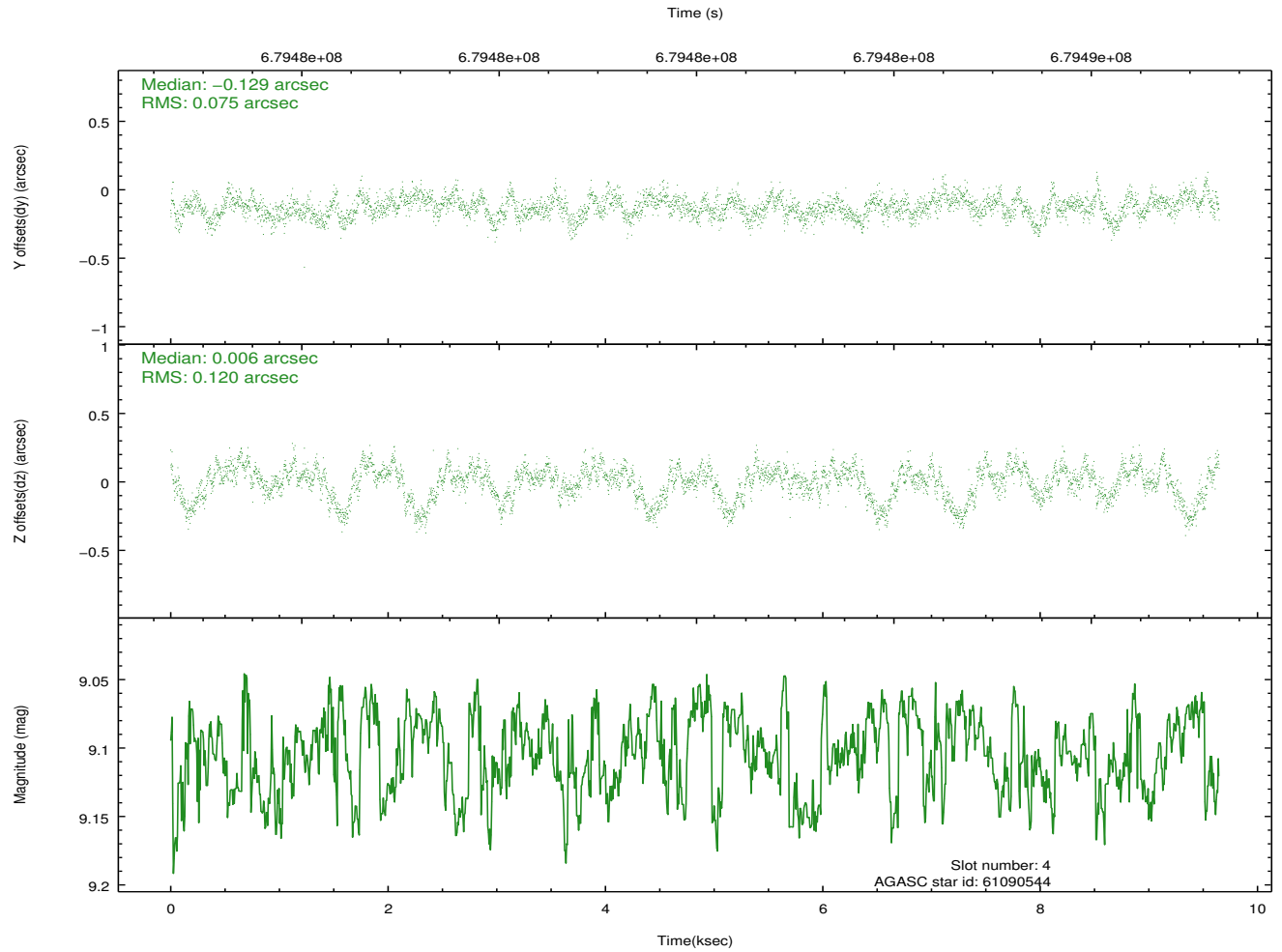
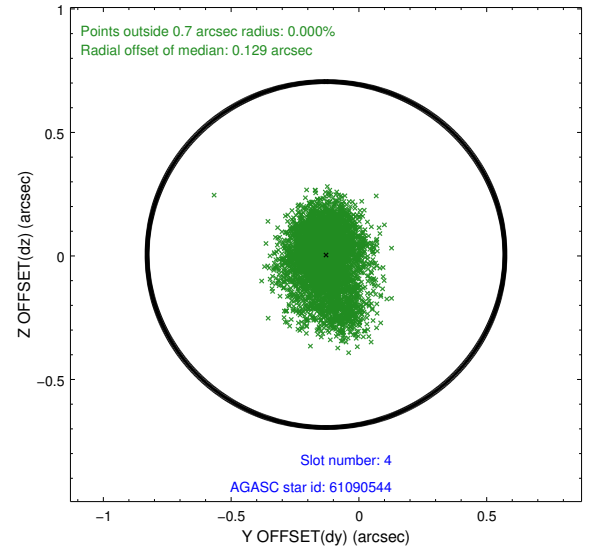
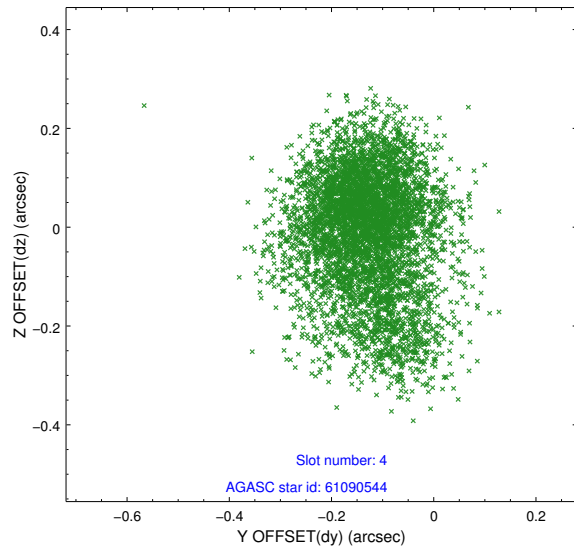
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.16	2353	1.000	-0.237	-0.171	0.016	0.029	0.000000	0.000000	-761.90	-1738
1	FID		ACIS-S-4	7.30	2353	1.000	0.643	0.160	0.025	0.038	0.000000	0.000000	2151.97	170
2	FID		ACIS-S-5	7.26	2354	1.000	-0.438	0.020	0.022	0.044	0.000000	0.000000	-1814.25	164
3	GUIDE	used	61085592	8.84	4706	1.000	0.348	0.074	0.120	0.185	286.029909	2.955528	-79.53	1015
4	GUIDE	used	61090544	9.11	4700	1.000	-0.129	0.006	0.146	0.261	285.571193	2.739432	1716.12	1330
5	GUIDE	used	61101072	8.56	4704	1.000	0.165	0.225	0.290	0.437	286.522485	3.266399	-2082.68	404
6	GUIDE	used	61092152	6.77	4707	1.000	-0.445	-0.289	0.109	0.174	285.897768	2.545743	767.45	2312
7	GUIDE	used	61088512	8.80	4702	1.000	-0.011	-0.003	0.203	0.282	286.158477	2.764457	-343.68	1801

2.4 Star Slots

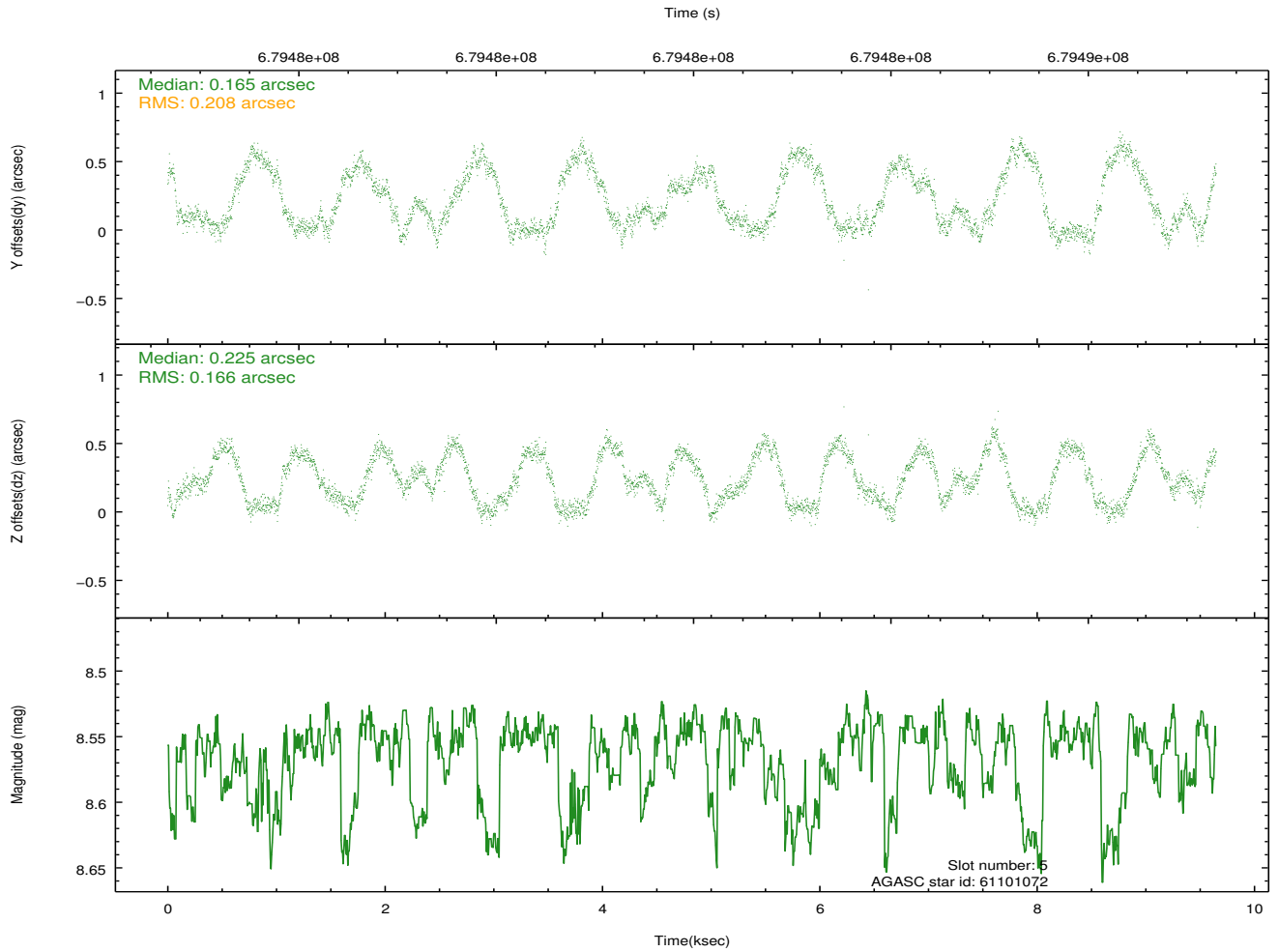
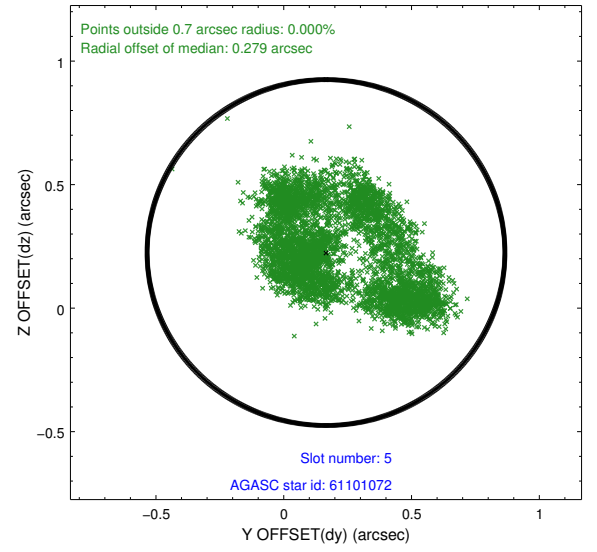
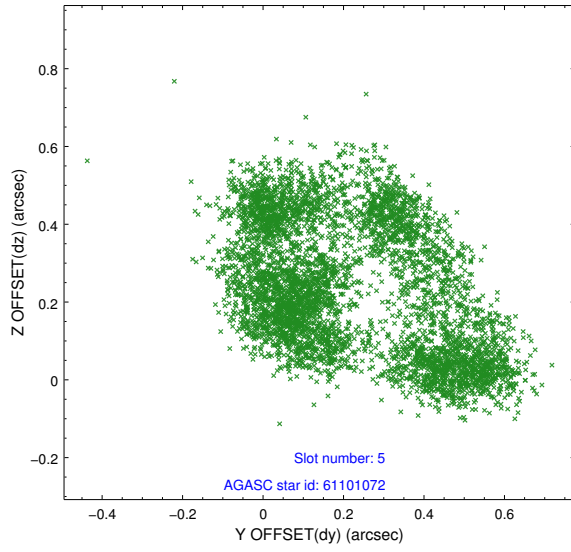
2.4.1 Slot 3



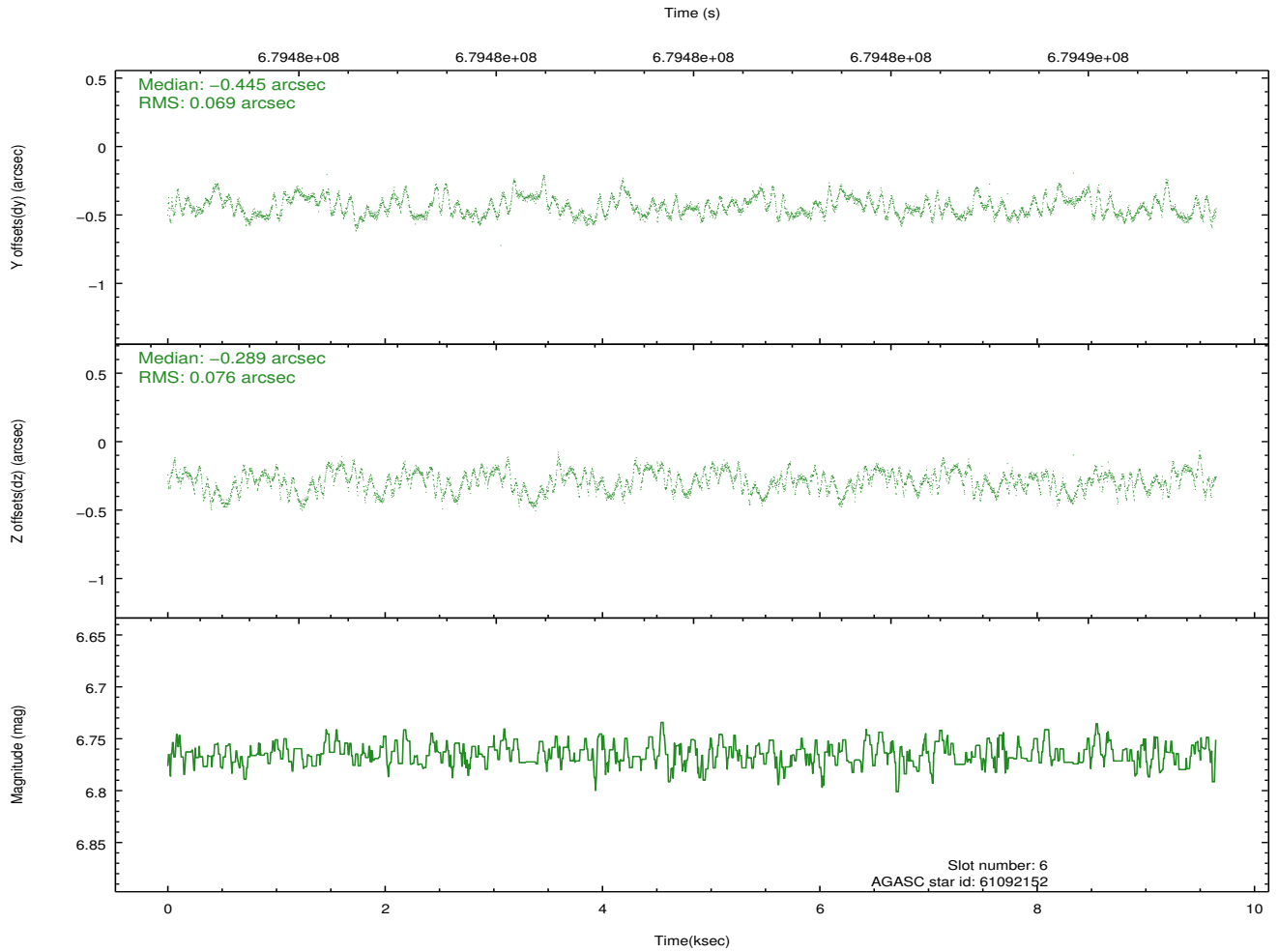
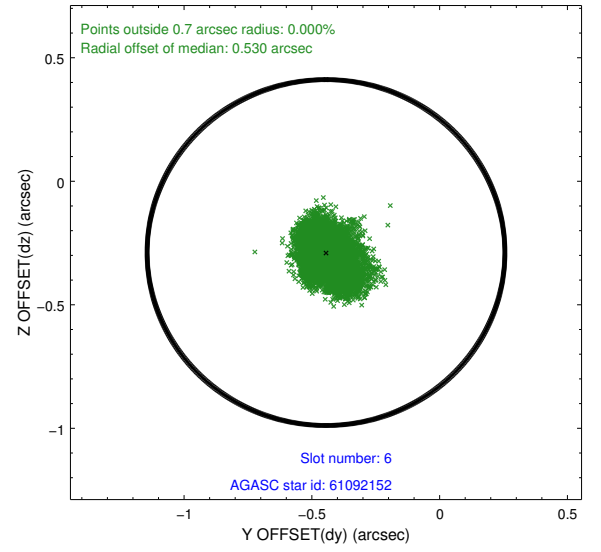
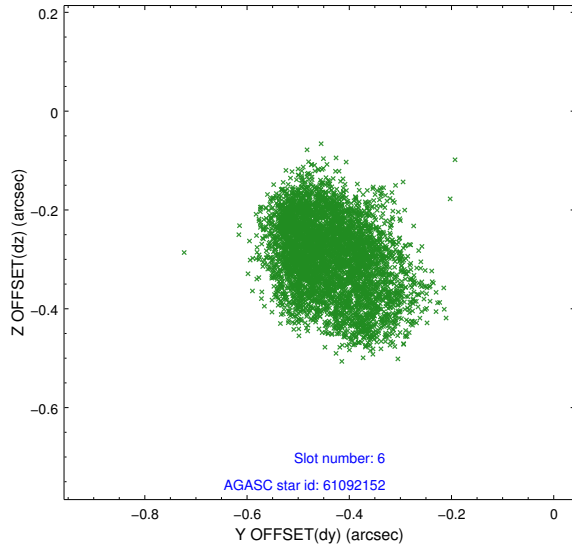
2.4.2 Slot 4



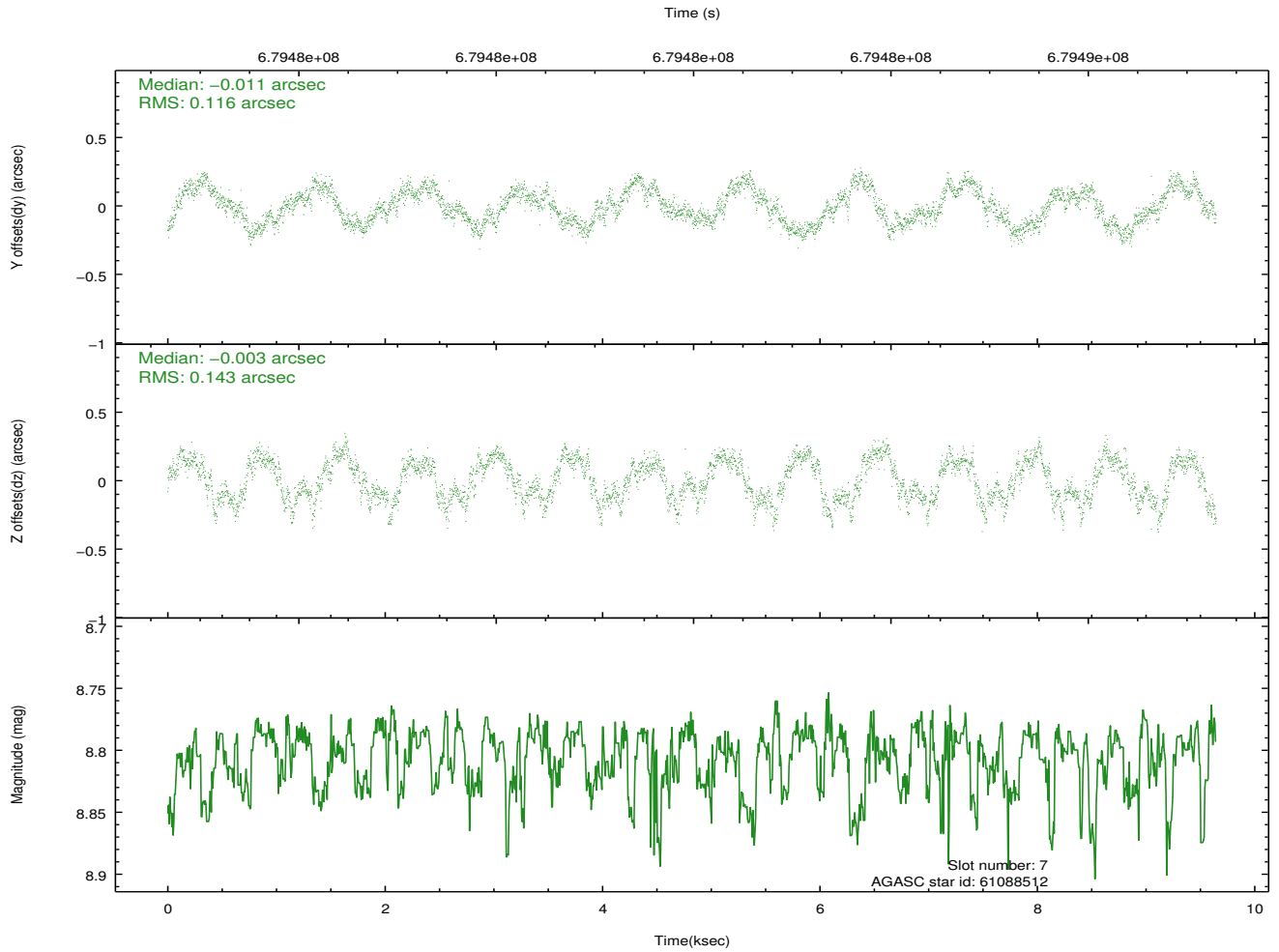
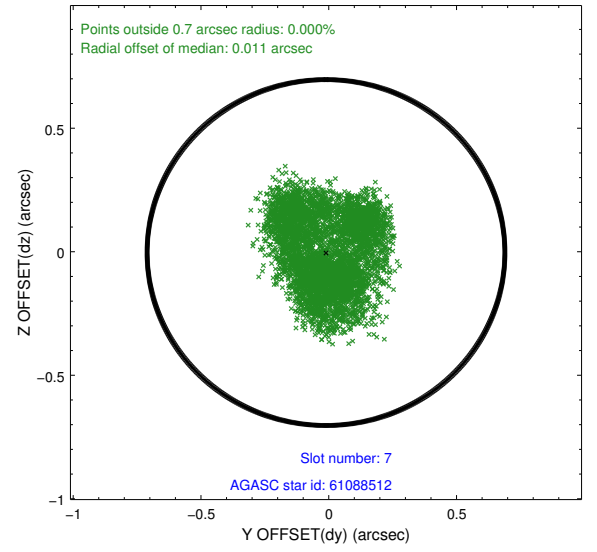
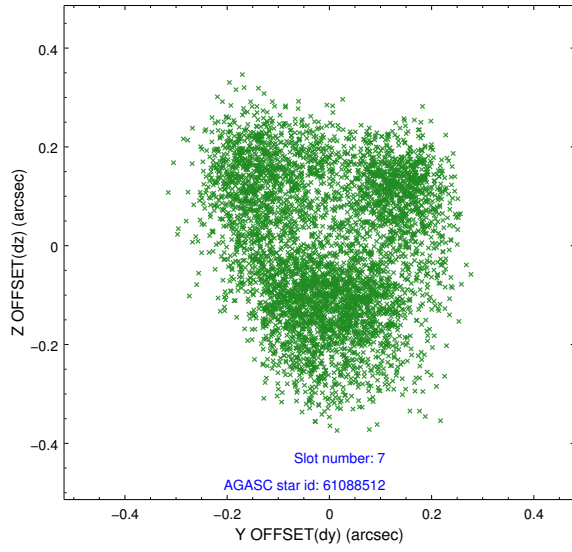
2.4.3 Slot 5



2.4.4 Slot 6

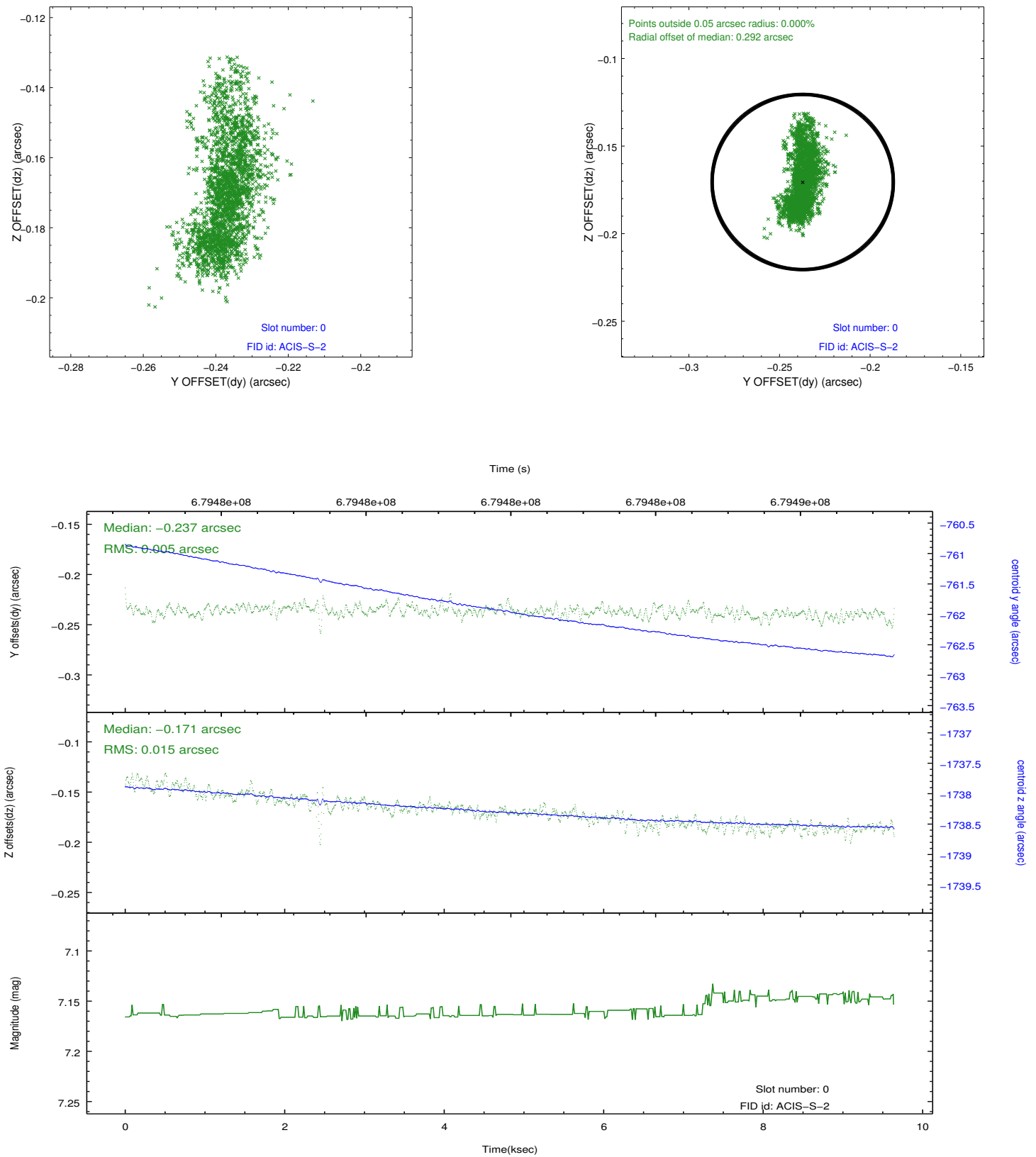


2.4.5 Slot 7

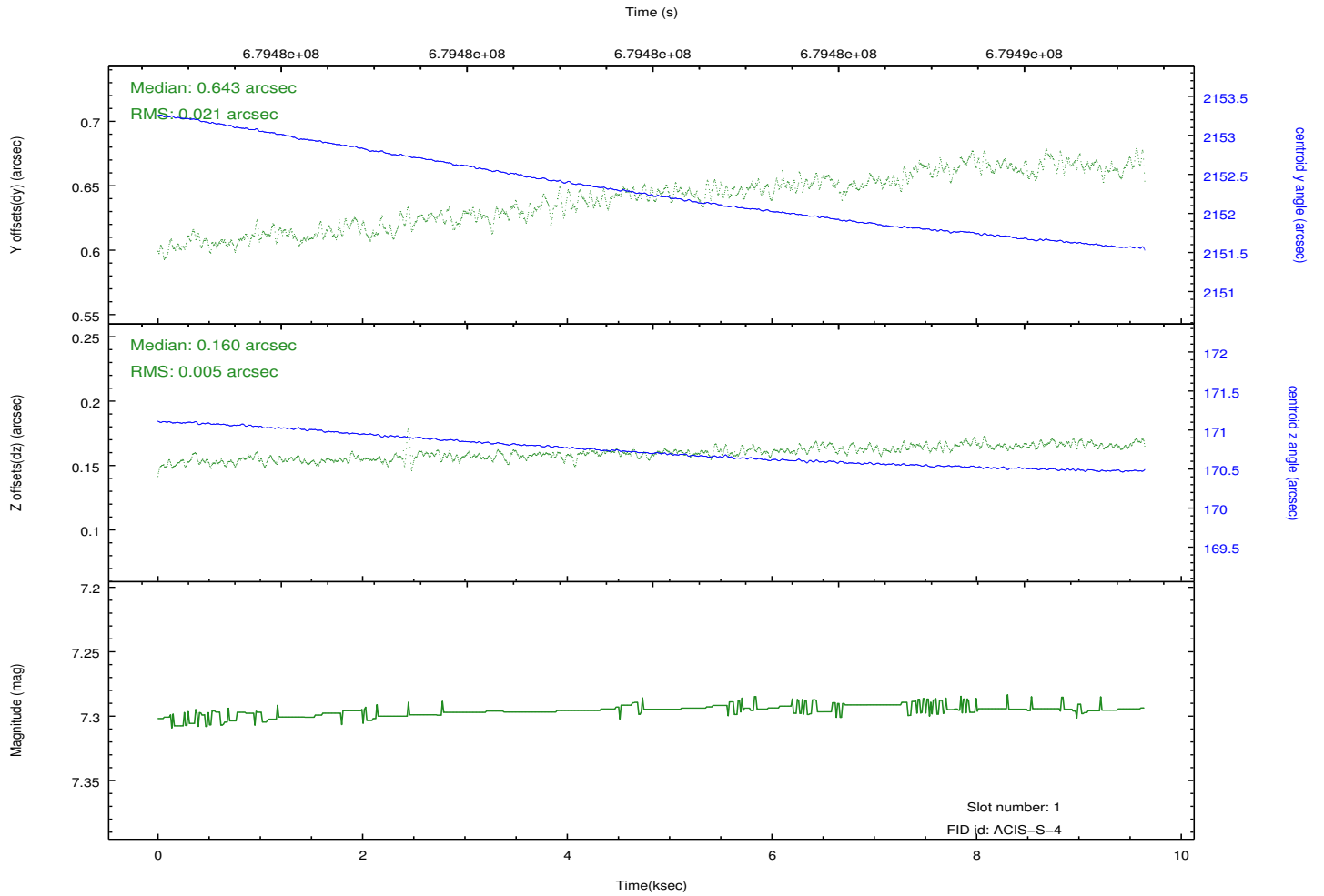
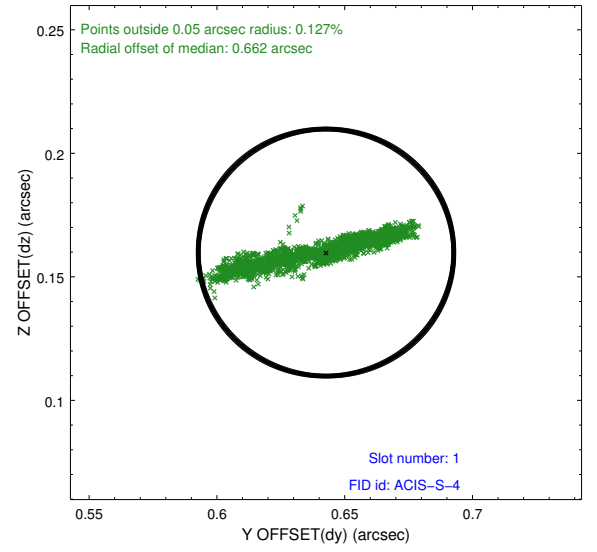
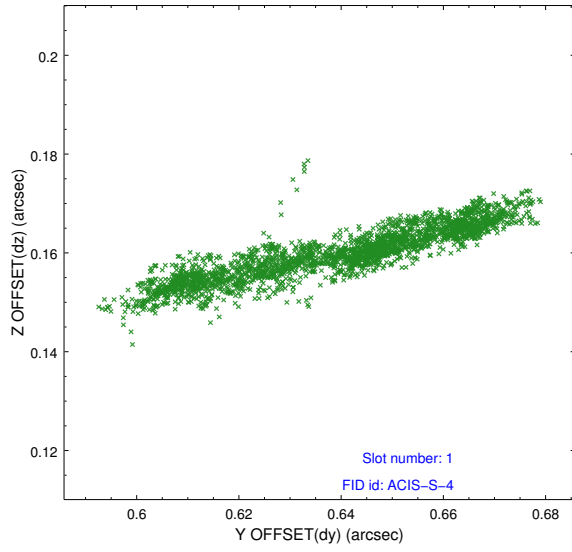


2.5 FID Slots

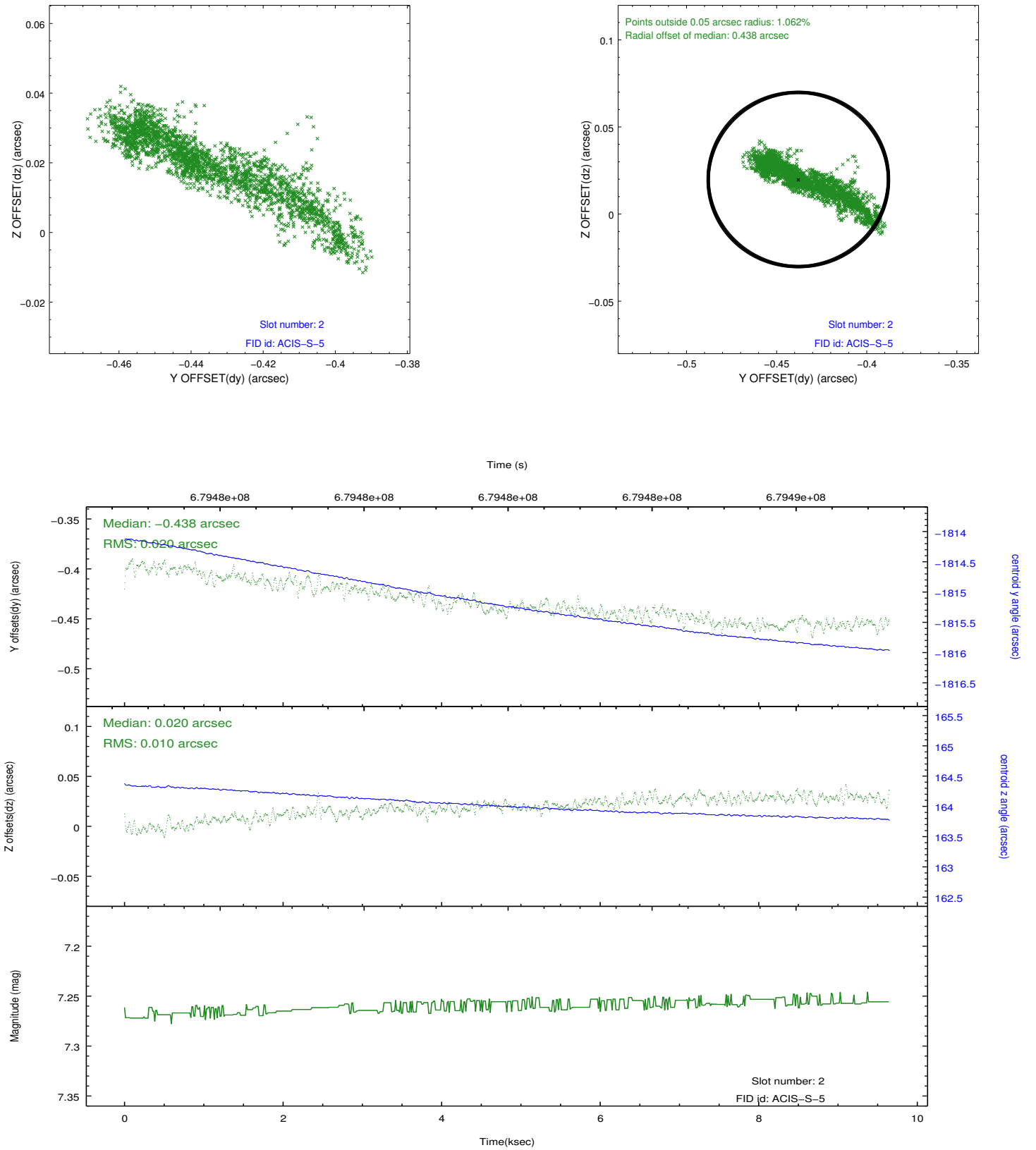
2.5.1 Slot 0



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)	2019.07.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.558

A.2 Comments