

V&V Reference Report

L2 ASCDS Version : 10.6.3

Observation 21110 - L2 Version 1
Chandra X-Ray Center

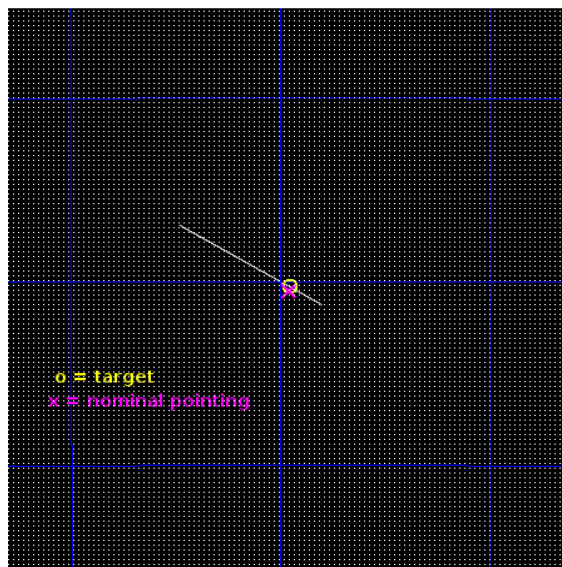
L2 Processing Date : Jun 28 2018

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1 Front

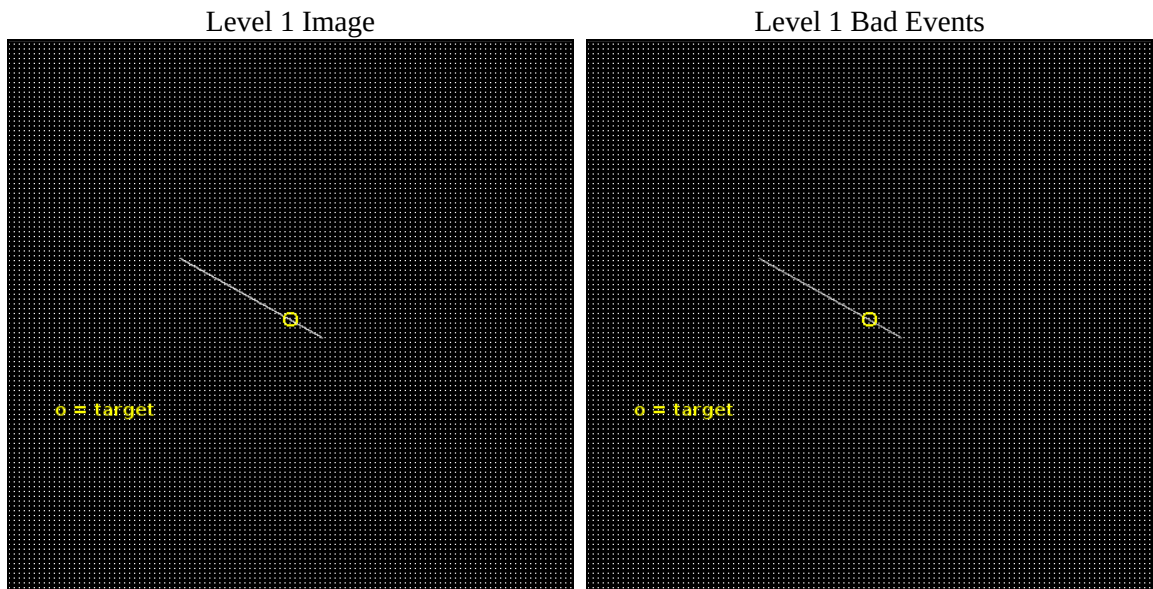
seq_num	502958	Sequence number
obs_id	21110	Observation id
title	Sensitive Long-Term Timing of CCO Pulsars	Proposal title
observer	Jules Halpern	Principal investigator
object	PSR J0821-4300	Source name
ra_targ	125.48875	Observer's specified target RA [deg]
dec_targ	-43.004833	Observer's specified target Dec [deg]
ra_nom	125.48918274405	Nominal RA [deg]
dec_nom	-43.008412014081	Nominal Dec [deg]
roll_nom	210.15690481034	Nominal Roll [deg]
revision	1	Processing version of data
ontime	17156.5	Sum of GTIs [s]
livetime	17089.482421875	Livetime [s]
ontime7	17156.5	Sum of GTIs [s]
l2events	299717	Number of level 2 events



2 OBI

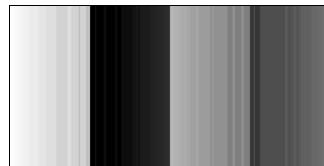
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.3	Processing system revision	ontime	17156.5	Sum of GTIs [s]
caldsver	4.7.8	 	ontime7	17156.5	Sum of GTIs [s]
date	2018-06-28T14:30:42	Date and time of file creation	l1events	478255	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	478255
rejected events	171530
rejected %	35%

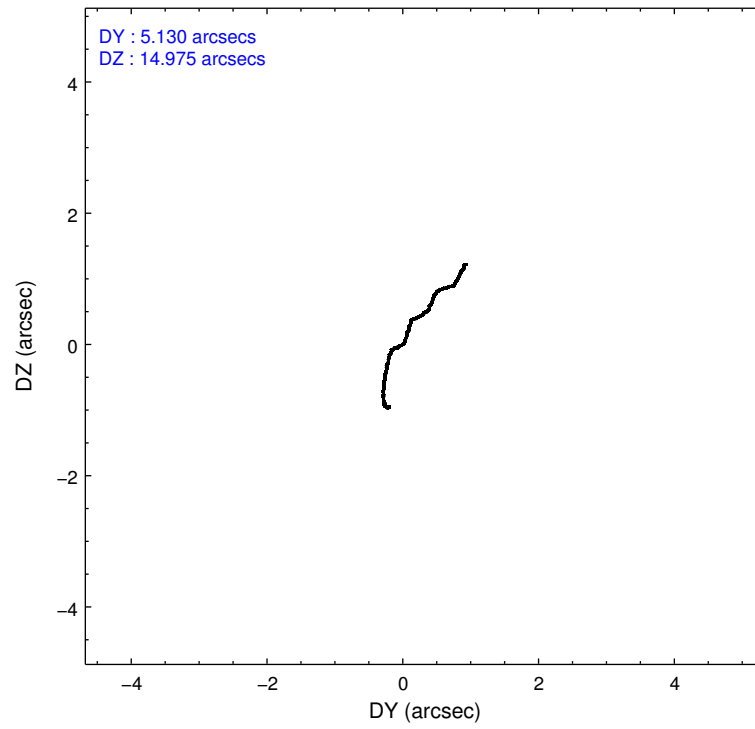
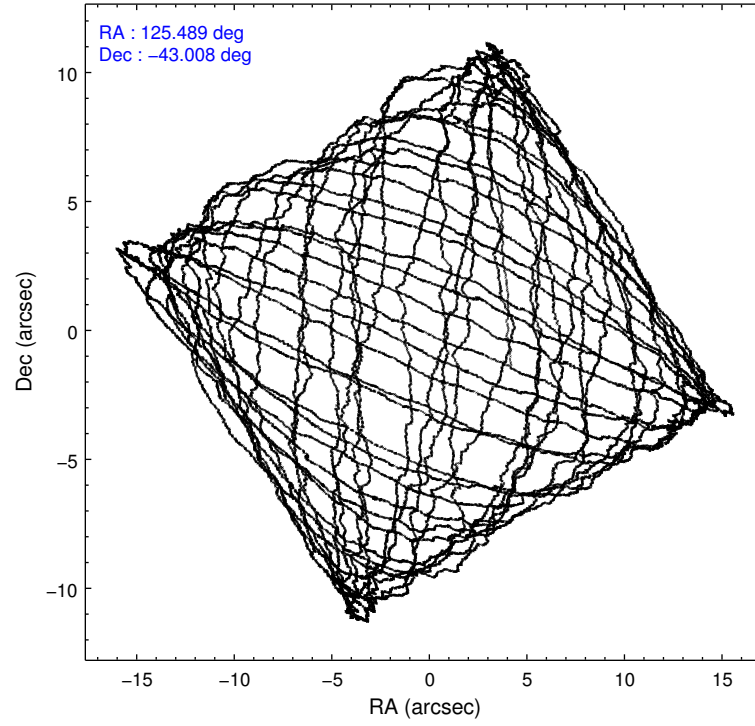
	ccd 7
grade 0 events	70754
	14%
grade 1 events	281
	0%
grade 2 events	94442
	19%
grade 3 events	28473
	5%
grade 4 events	28316
	5%
grade 5 events	17526
	3%
grade 6 events	86029
	17%
grade 7 events	152434
	31%

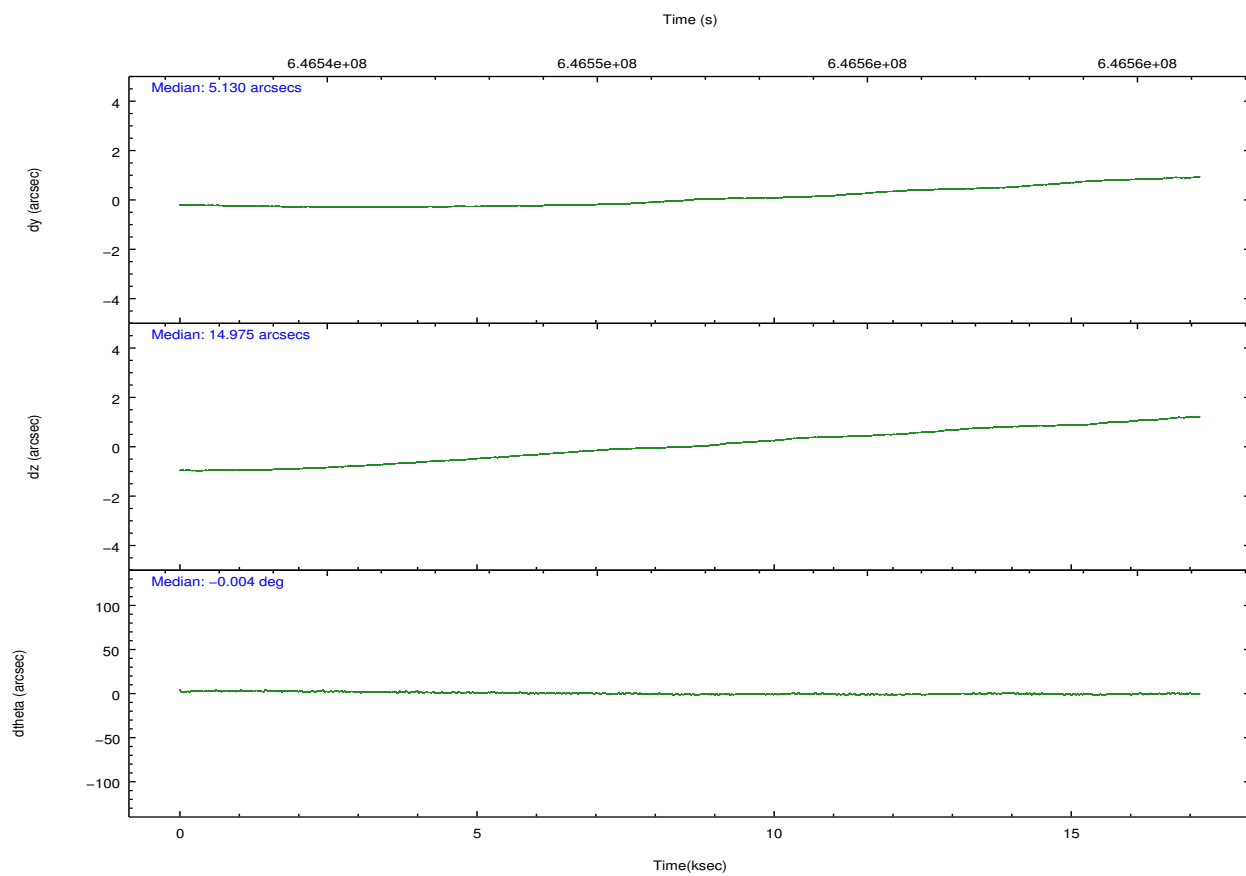
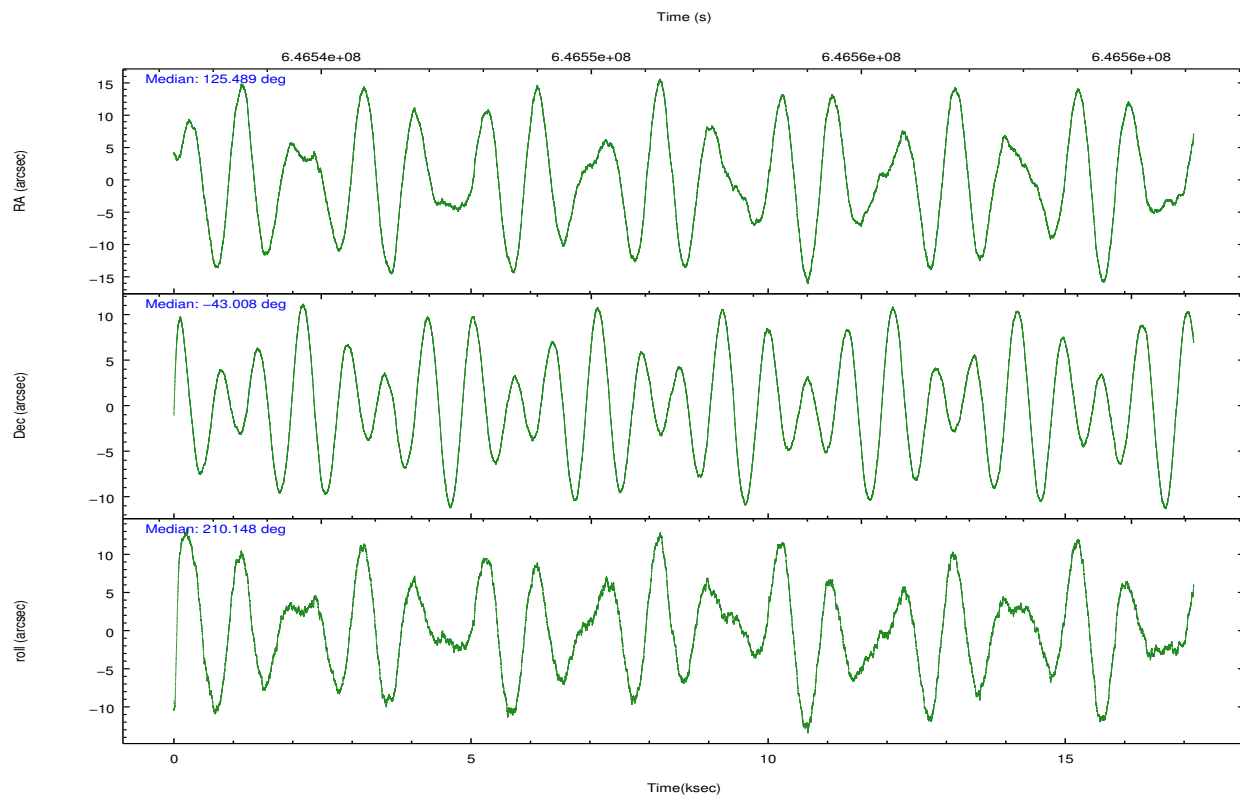
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	CC33_FAINT	CC33_FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	125.507406	125.4891827440484
[deg] Pointing Dec	-42.984443	-43.00841201408106
[deg] Pointing Roll	210.012721	210.1569048103441
[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)	646543296.184000	646542154.3351099
Observation start date	2018-06-28T03:20:27	2018-06-28T03:02:34
[s] Observation end time (MET)	646560296.184000	646561151.17374
Observation end date	2018-06-28T08:03:47	2018-06-28T08:19:11
Read mode	CONTINUOUS	CONTINUOUS

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	0

2.3 Aspect



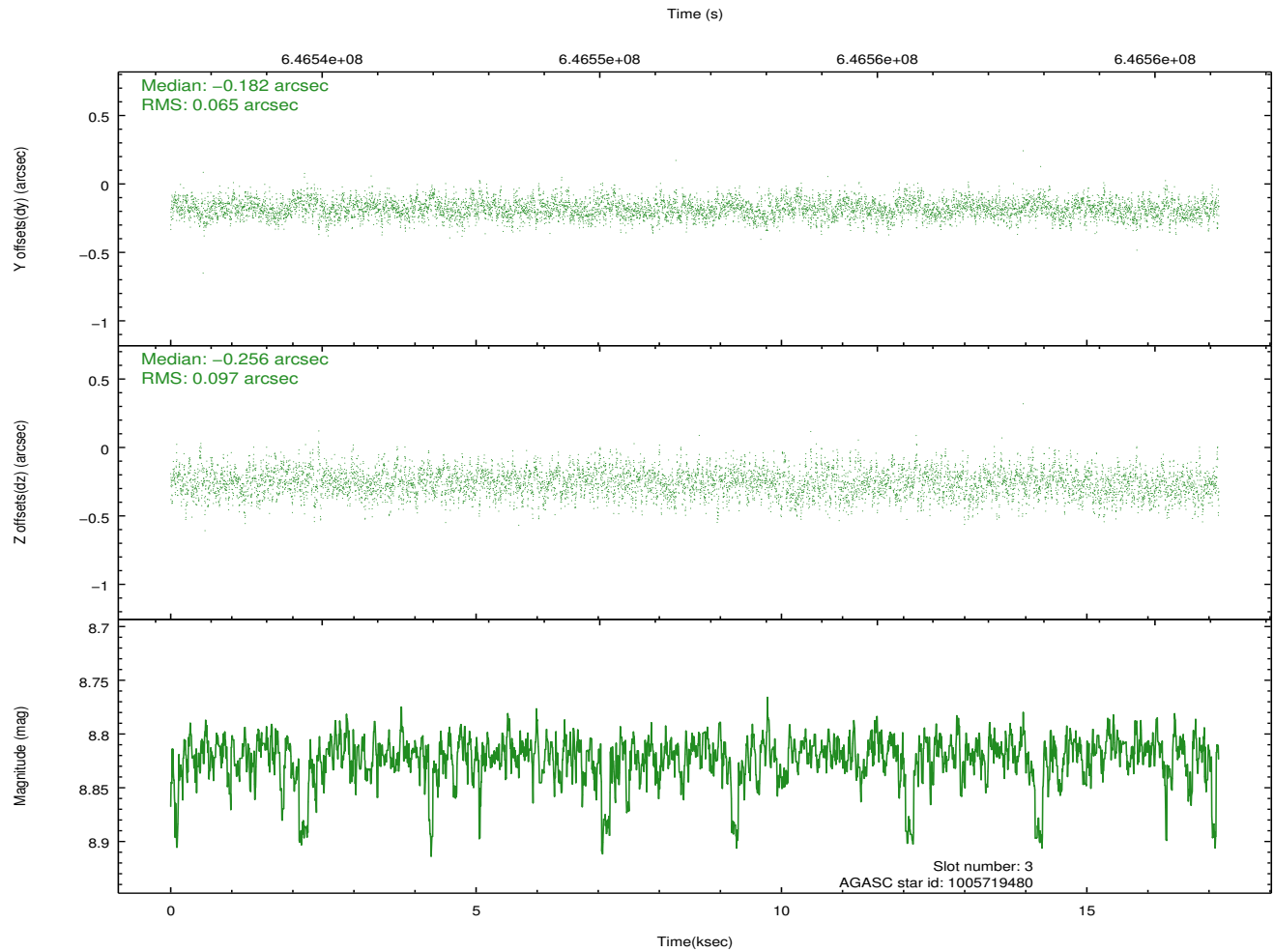
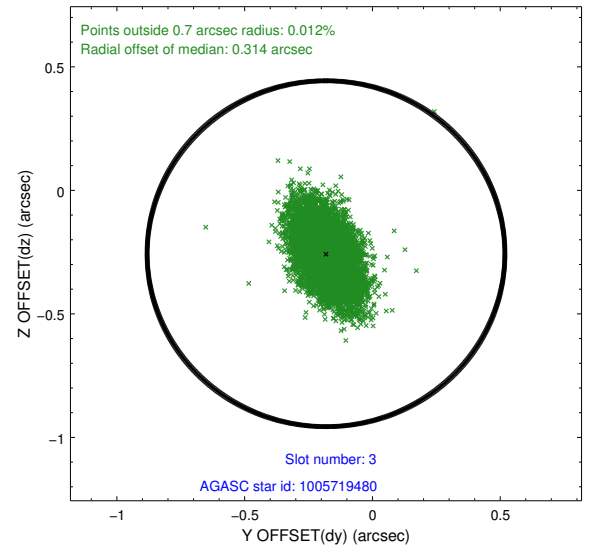
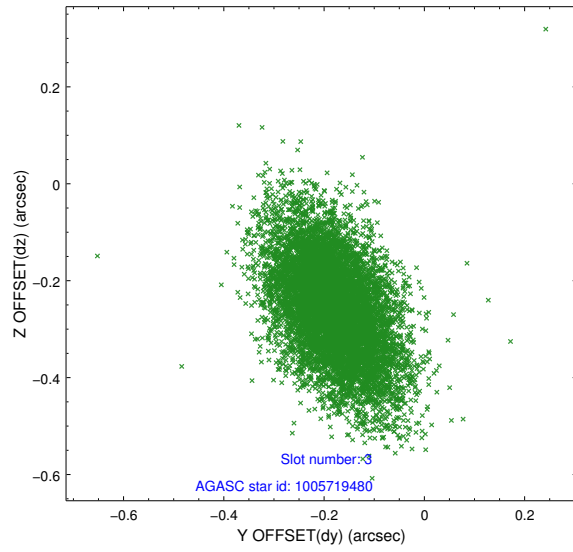


Slot Statistics

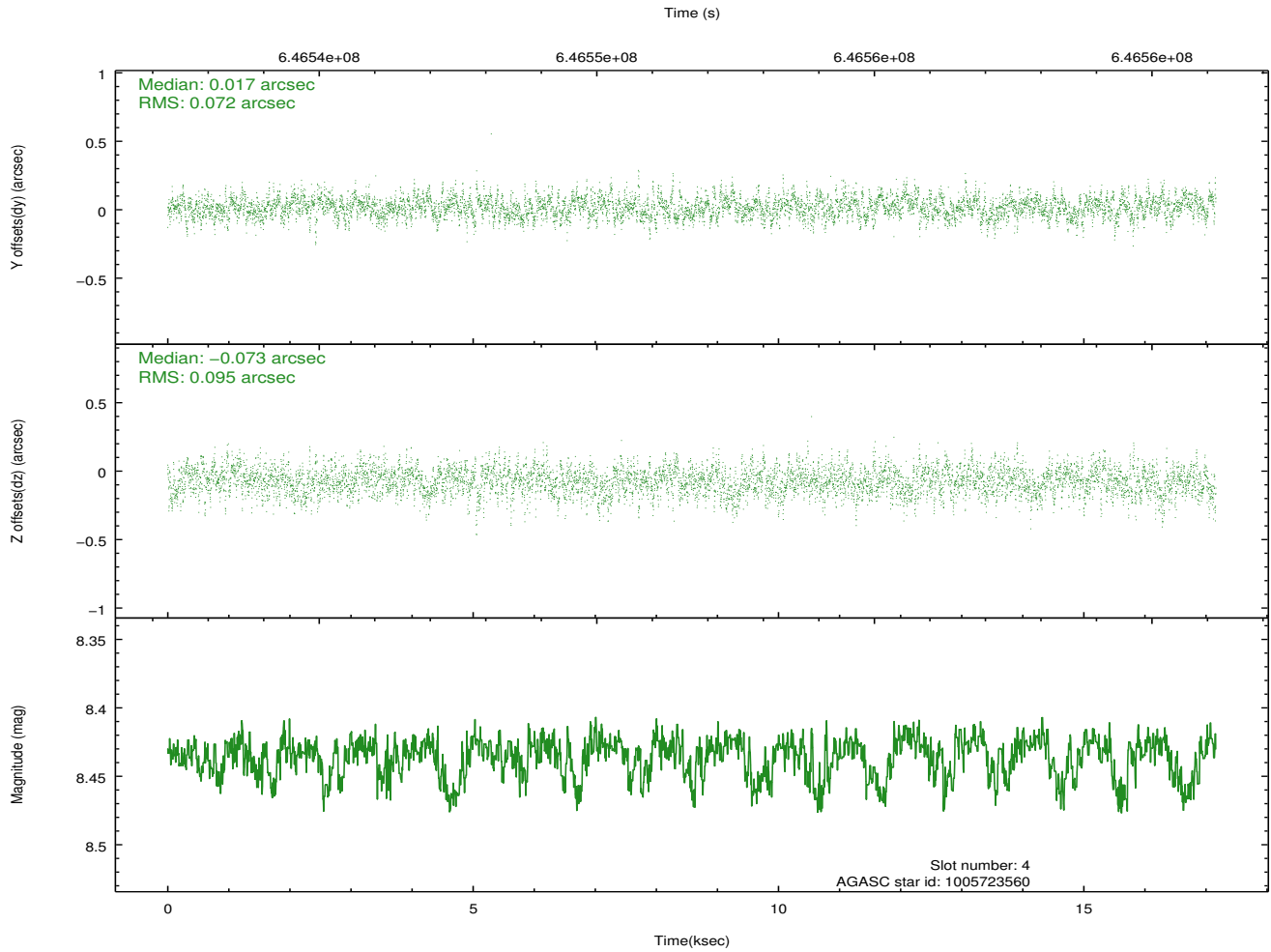
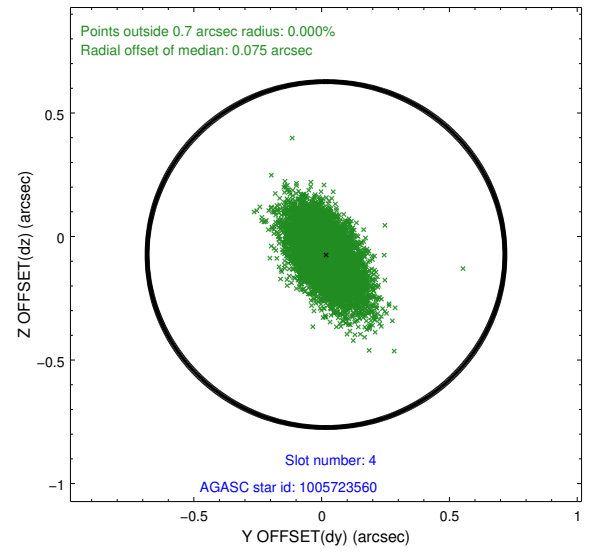
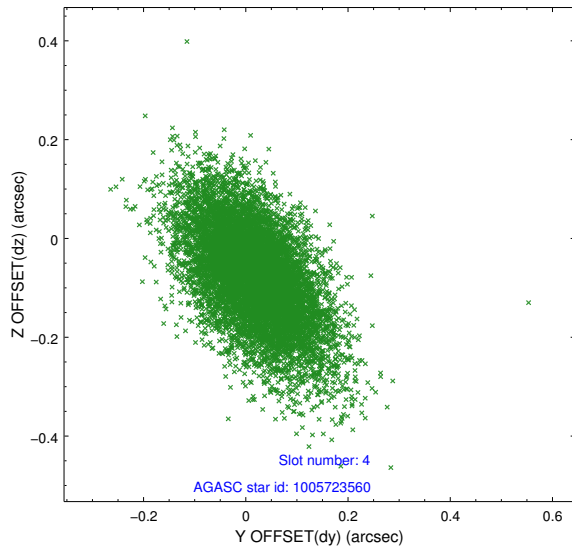
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	4186	1.000	-0.146	-0.078	0.026	0.043	0.000000	0.000000	-758.07	-1736
1	FID		ACIS-S-4	7.25	4186	1.000	0.359	0.092	0.016	0.045	0.000000	0.000000	2155.58	171
2	FID		ACIS-S-5	7.24	4186	1.000	-0.244	-0.006	0.034	0.049	0.000000	0.000000	-1810.71	165
3	GUIDE	used	1005719480	8.82	8365	1.000	-0.182	-0.256	0.121	0.214	125.476619	-43.605627	1187.80	1896
4	GUIDE	used	1005723560	8.43	8368	1.000	0.017	-0.073	0.123	0.217	126.279097	-43.364629	-1059.57	2203
5	GUIDE	used	1005724040	7.55	8371	1.000	0.009	-0.001	0.136	0.239	125.738175	-43.227880	-85.32	1062
6	GUIDE	used	1005064168	7.01	8371	1.000	0.111	0.150	0.122	0.213	124.723843	-42.526737	981.47	-2457
7	GUIDE	used	1005192328	8.90	8364	1.000	0.045	0.187	0.141	0.244	126.494374	-42.919317	-2362.52	1111

2.4 Star Slots

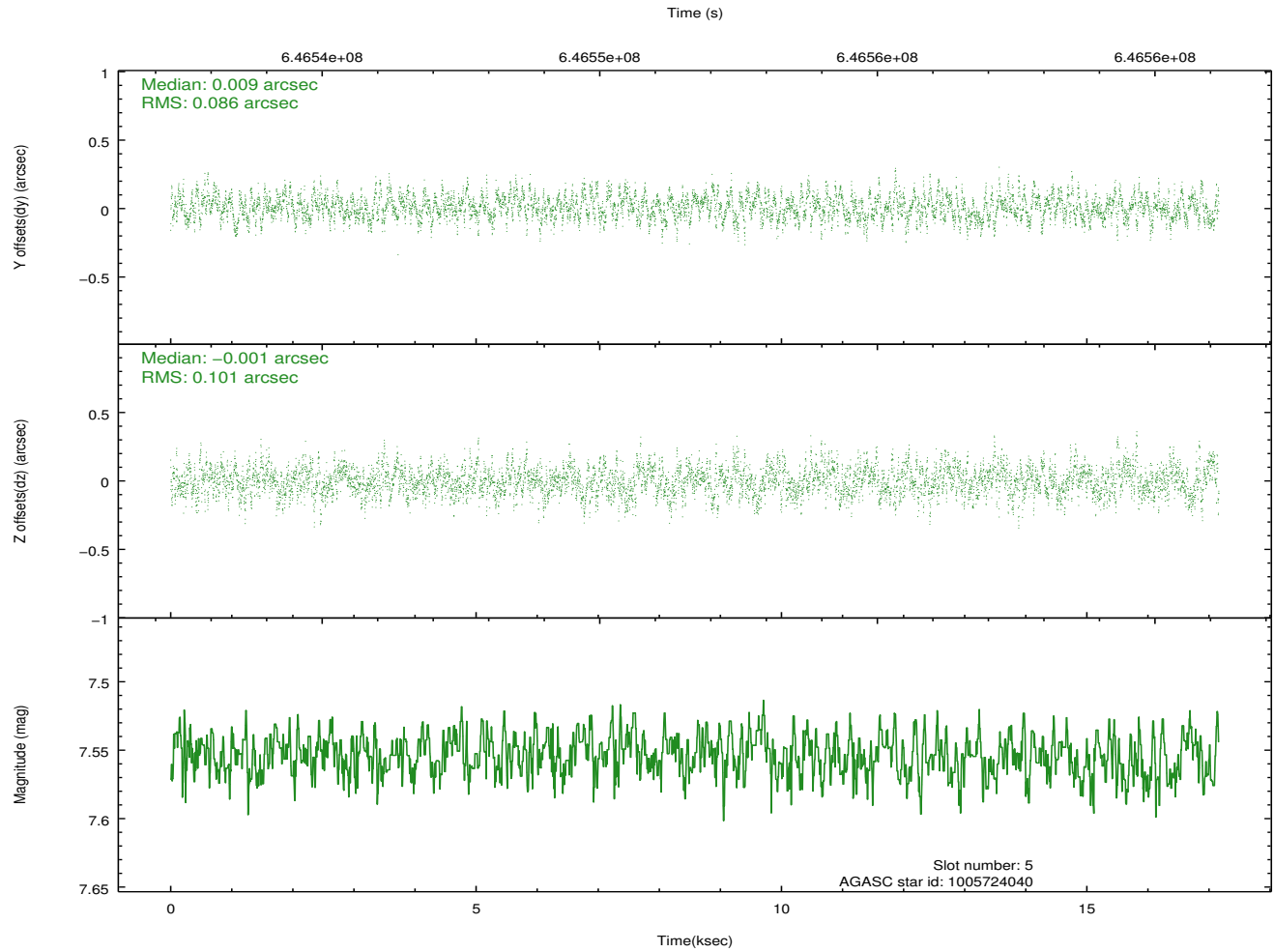
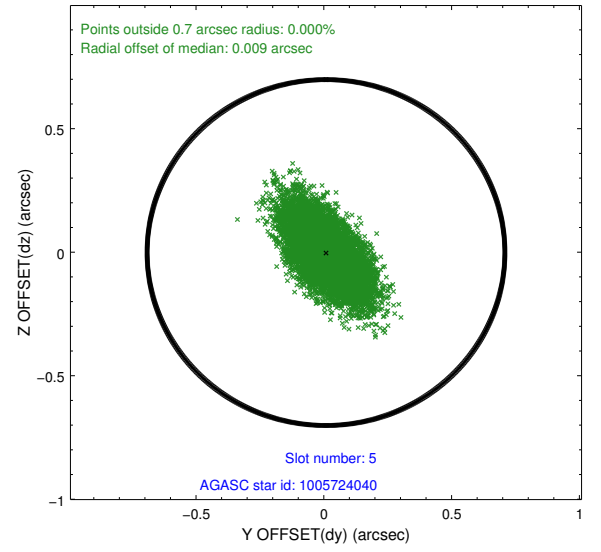
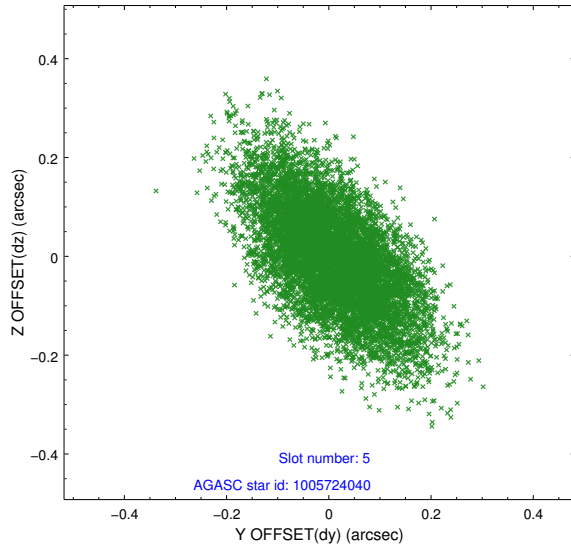
2.4.1 Slot 3



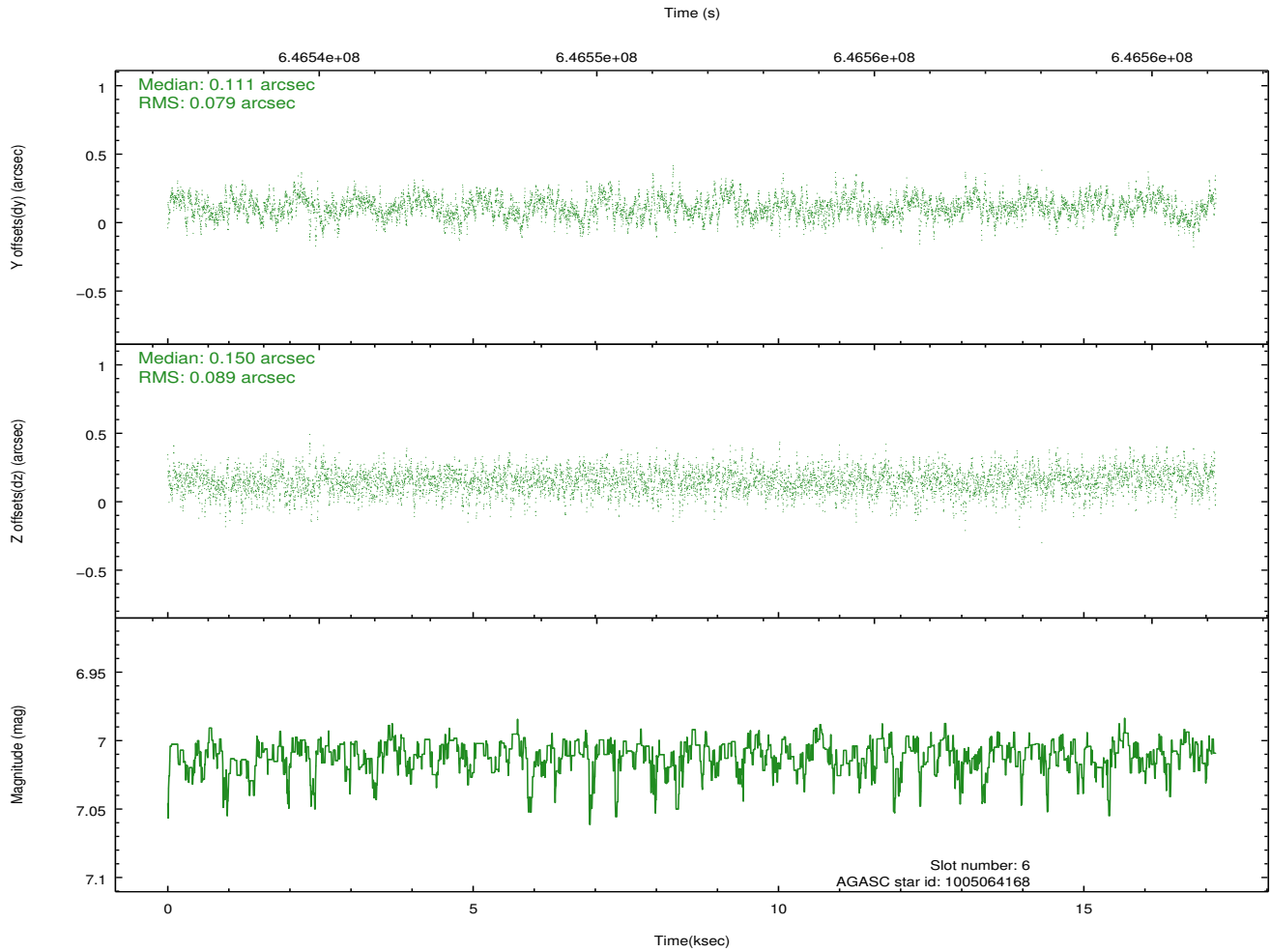
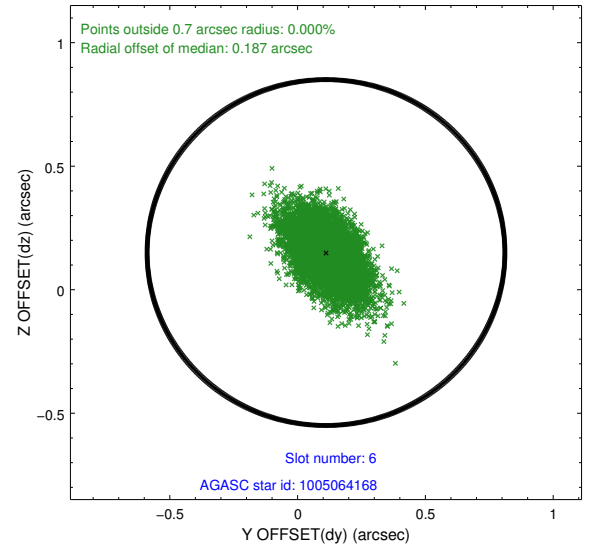
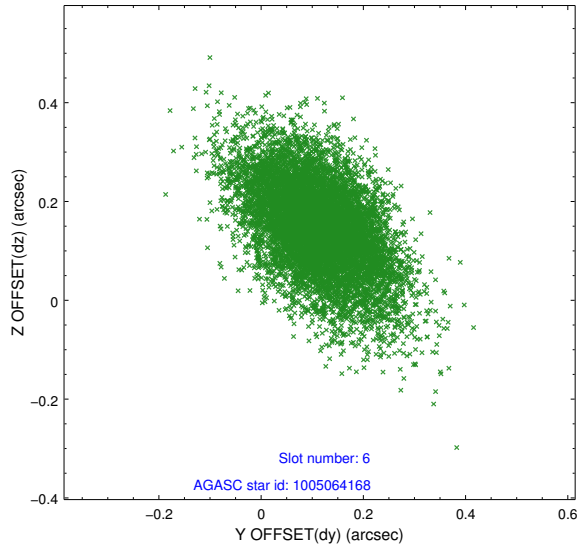
2.4.2 Slot 4



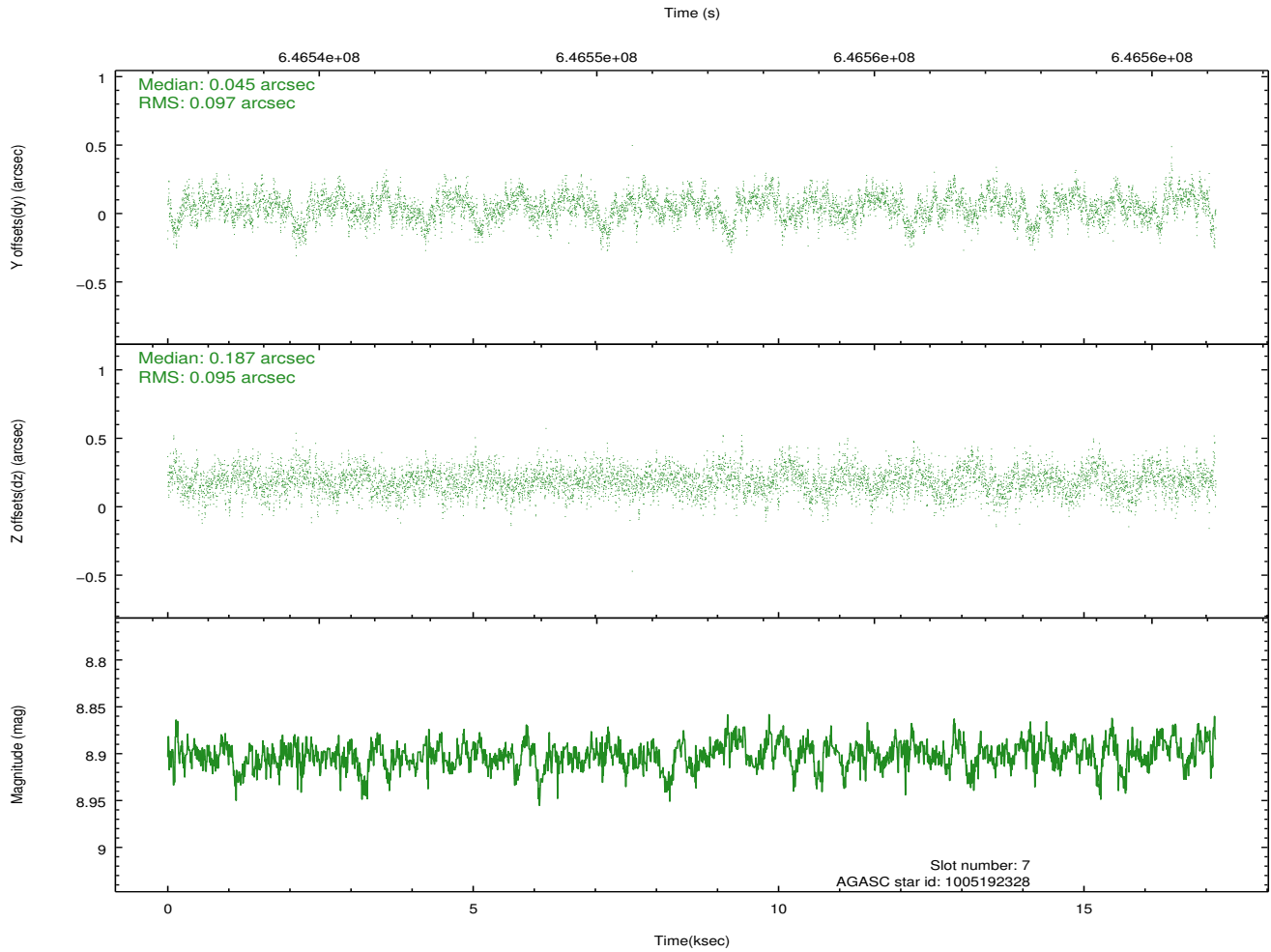
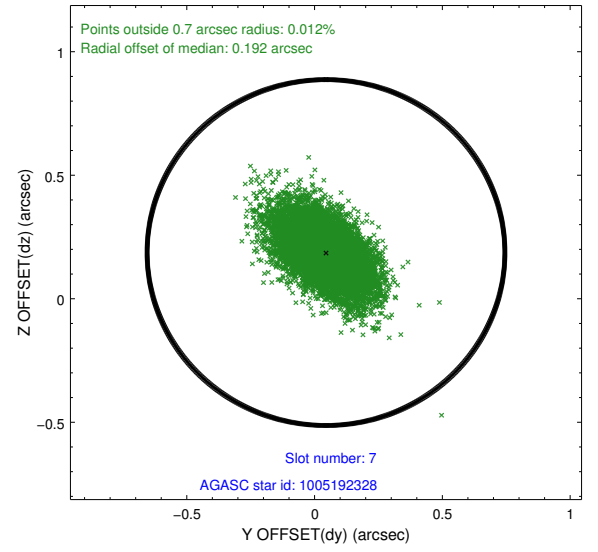
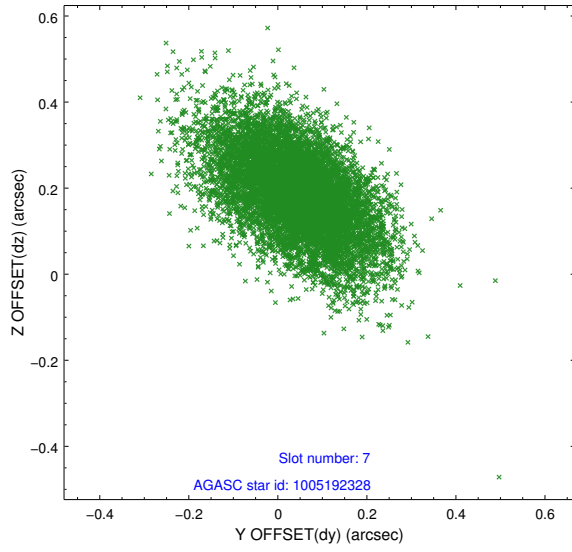
2.4.3 Slot 5



2.4.4 Slot 6

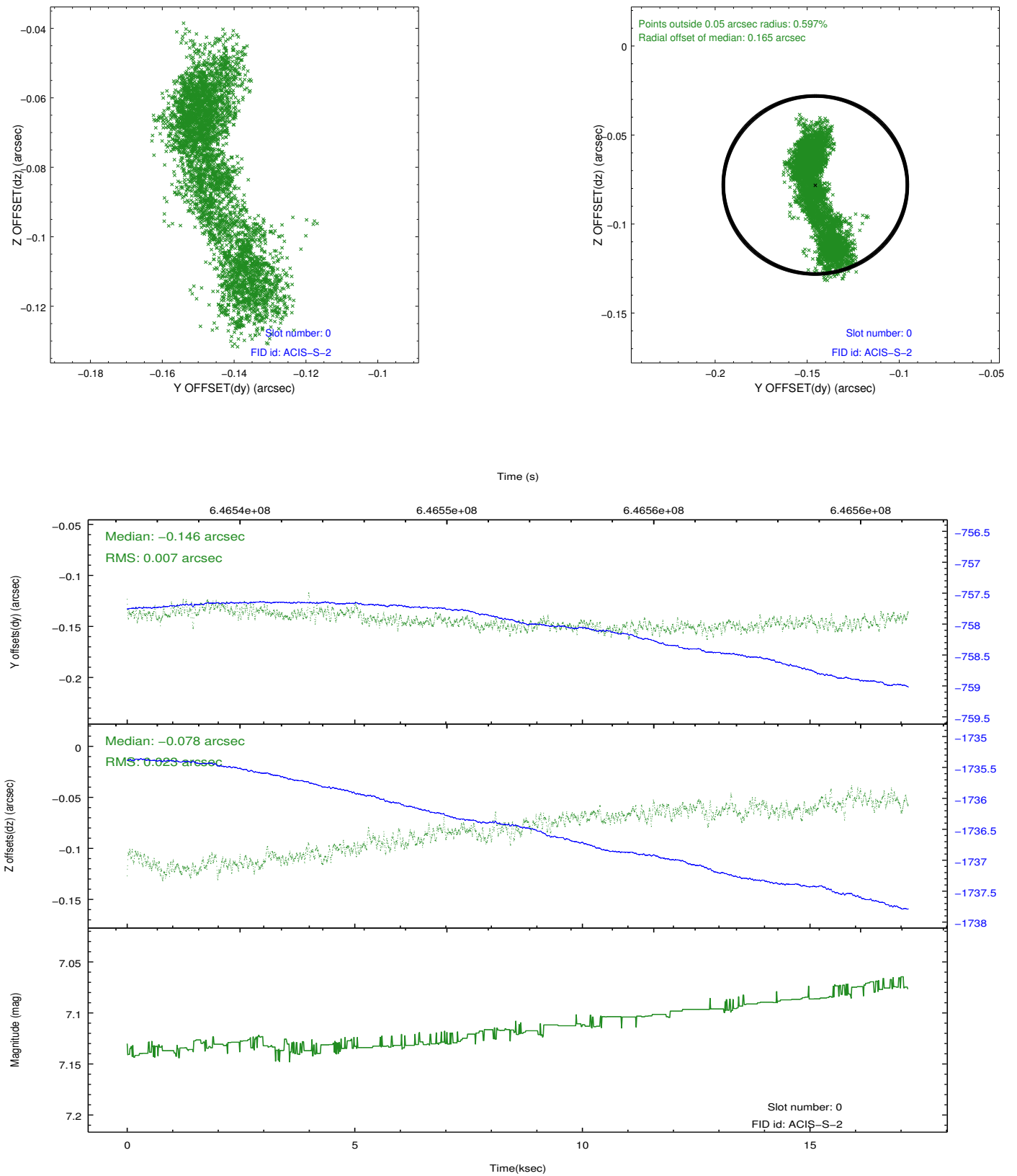


2.4.5 Slot 7

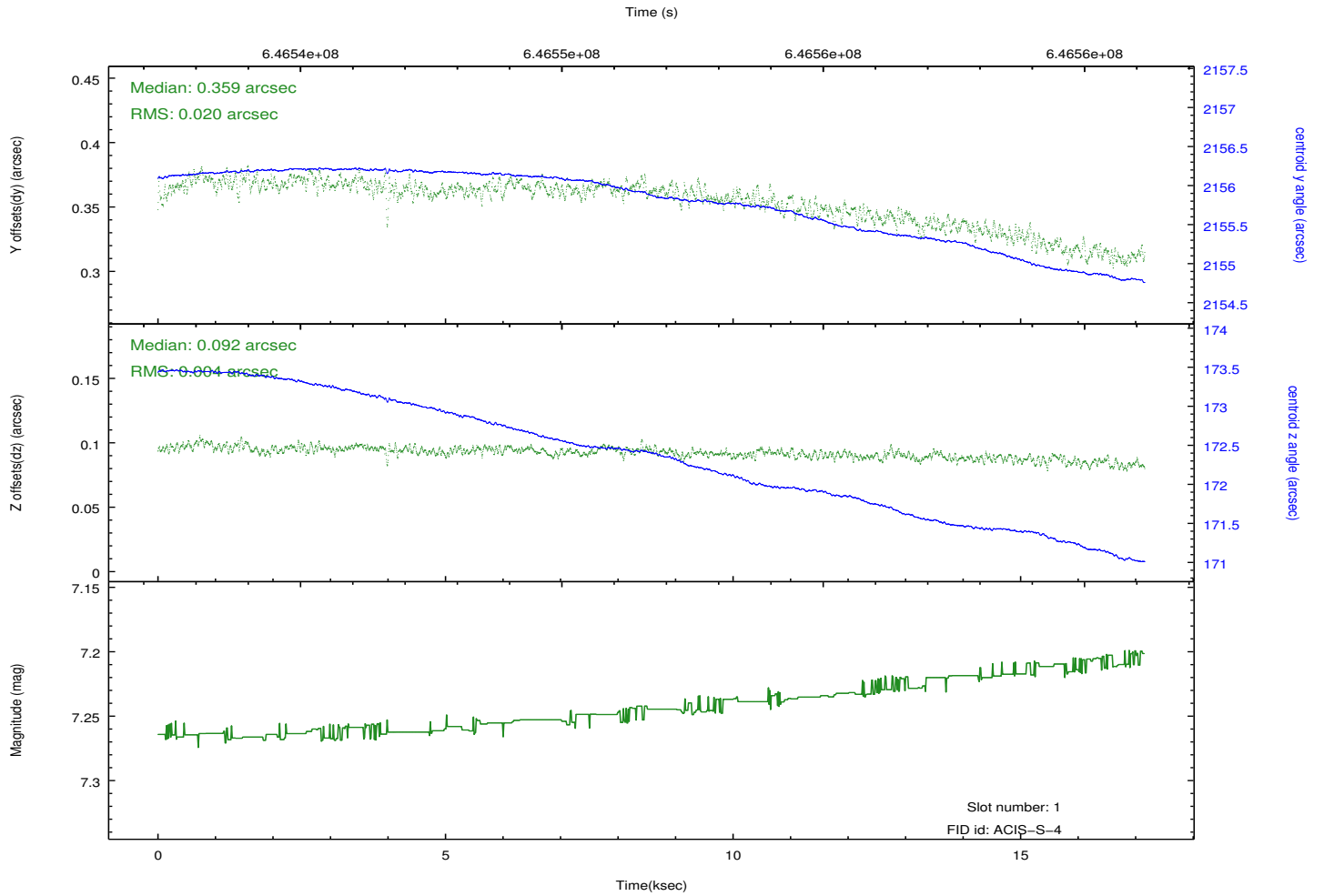
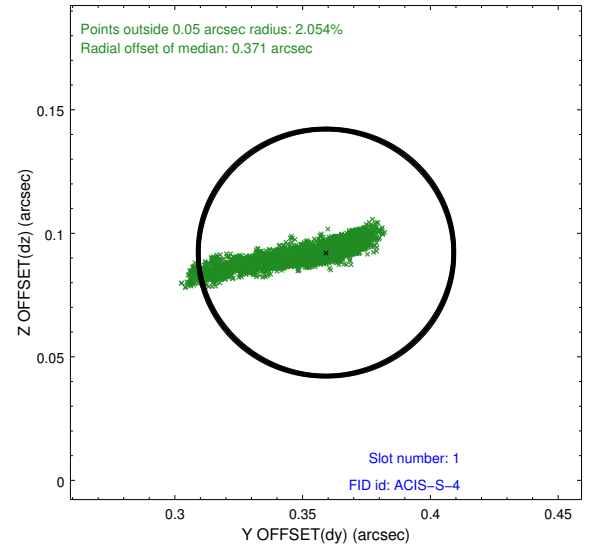
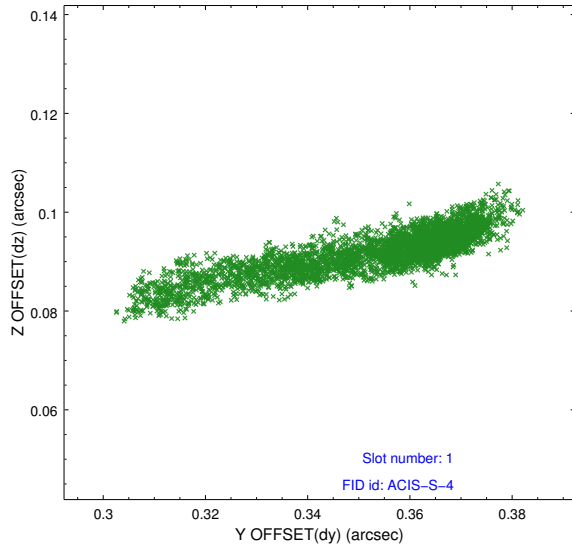


2.5 FID Slots

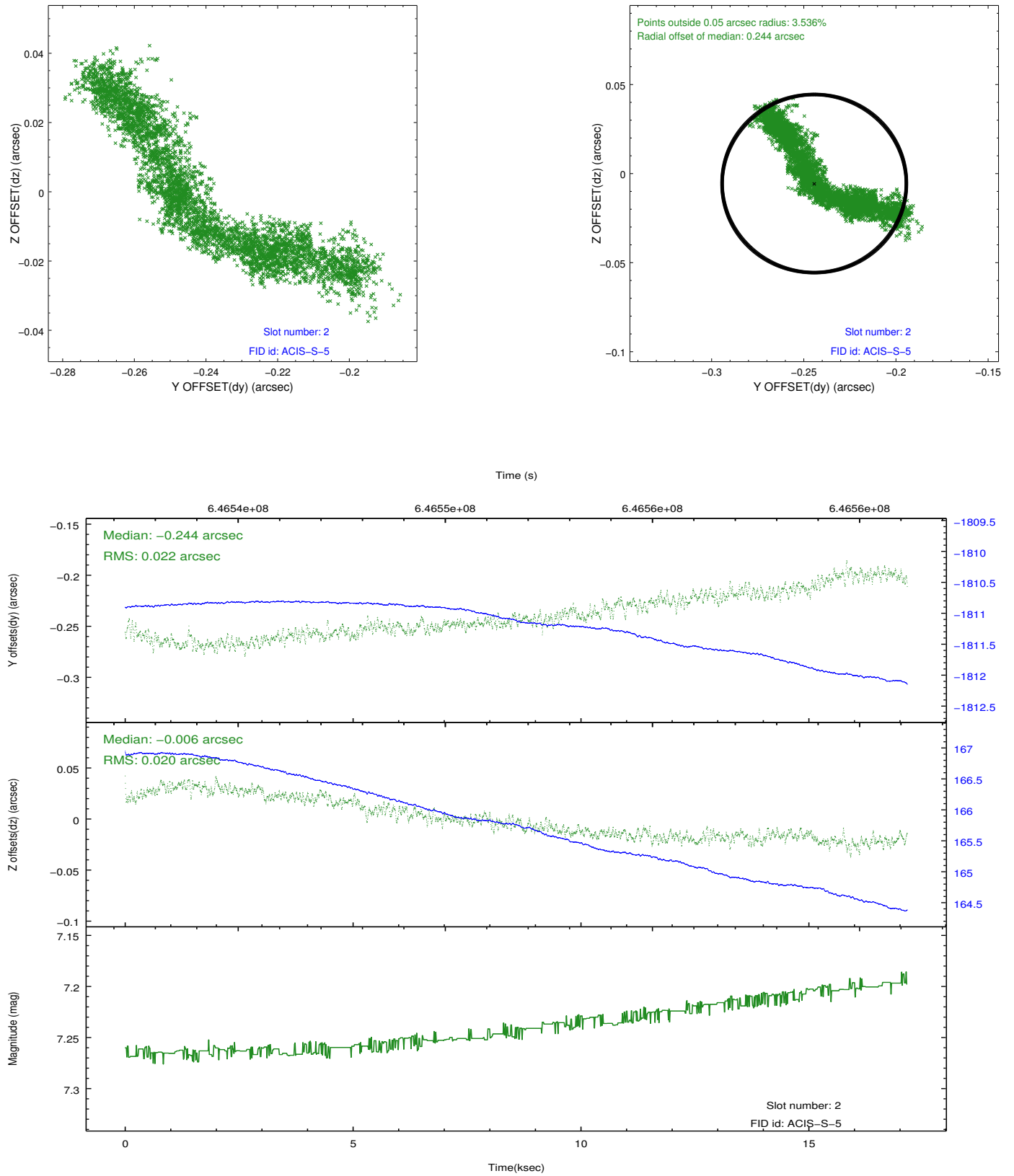
2.5.1 Slot 0



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)	2018.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.1565

A.2 Comments