

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21617 - L2 Version 1
Chandra X-Ray Center

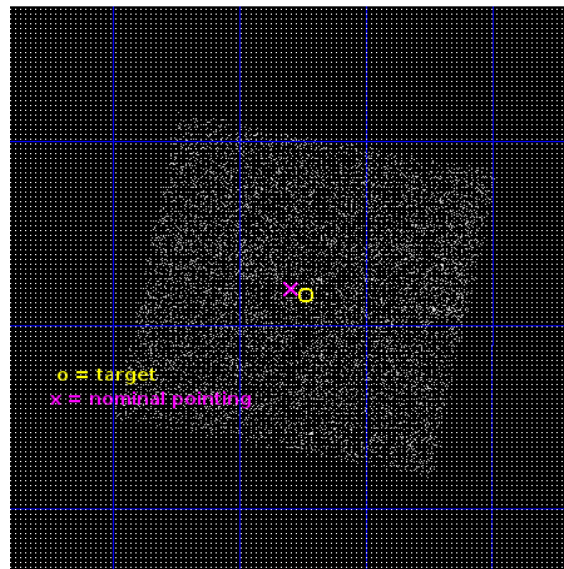
L2 Processing Date : Jul 29 2019

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1 Front

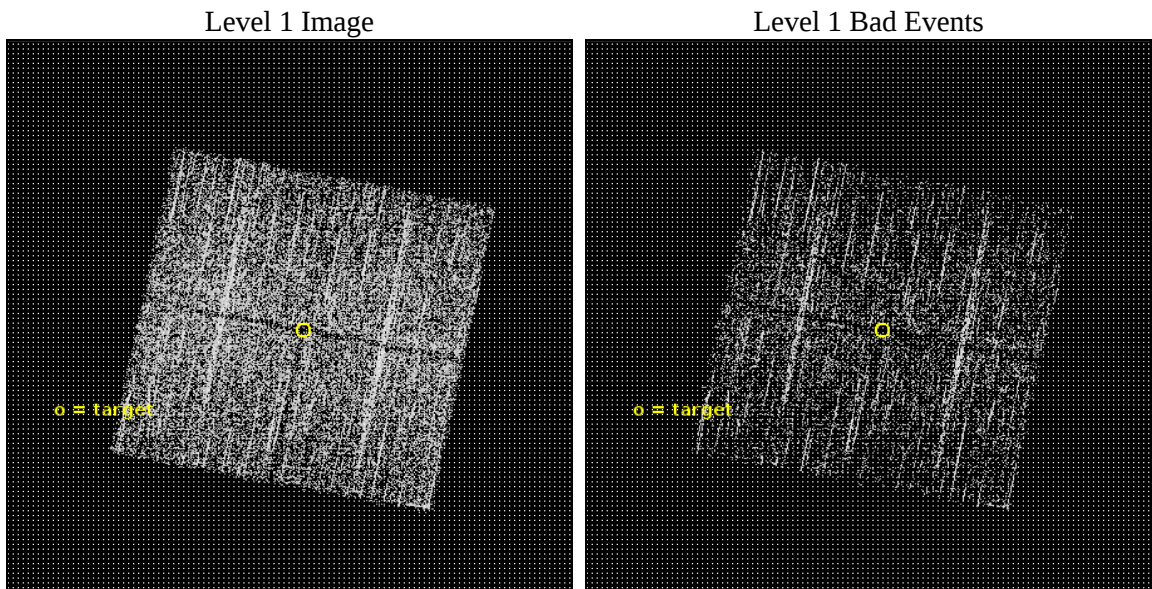
seq_num	300449	Sequence number
obs_id	21617	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.80942	Observer's specified target RA [deg]
dec_targ	-28.140269	Observer's specified target Dec [deg]
ra_nom	265.82334855867	Nominal RA [deg]
dec_nom	-28.133874643049	Nominal Dec [deg]
roll_nom	281.21535052296	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2076.476021409	Sum of GTIs [s]
livetime	2049.3453335099	Livetime [s]
ontime0	2076.4349814653	Sum of GTIs [s]
ontime1	2076.476021409	Sum of GTIs [s]
ontime2	2076.5170614719	Sum of GTIs [s]
ontime3	2076.5581014156	Sum of GTIs [s]
l2events	6674	Number of level 2 events



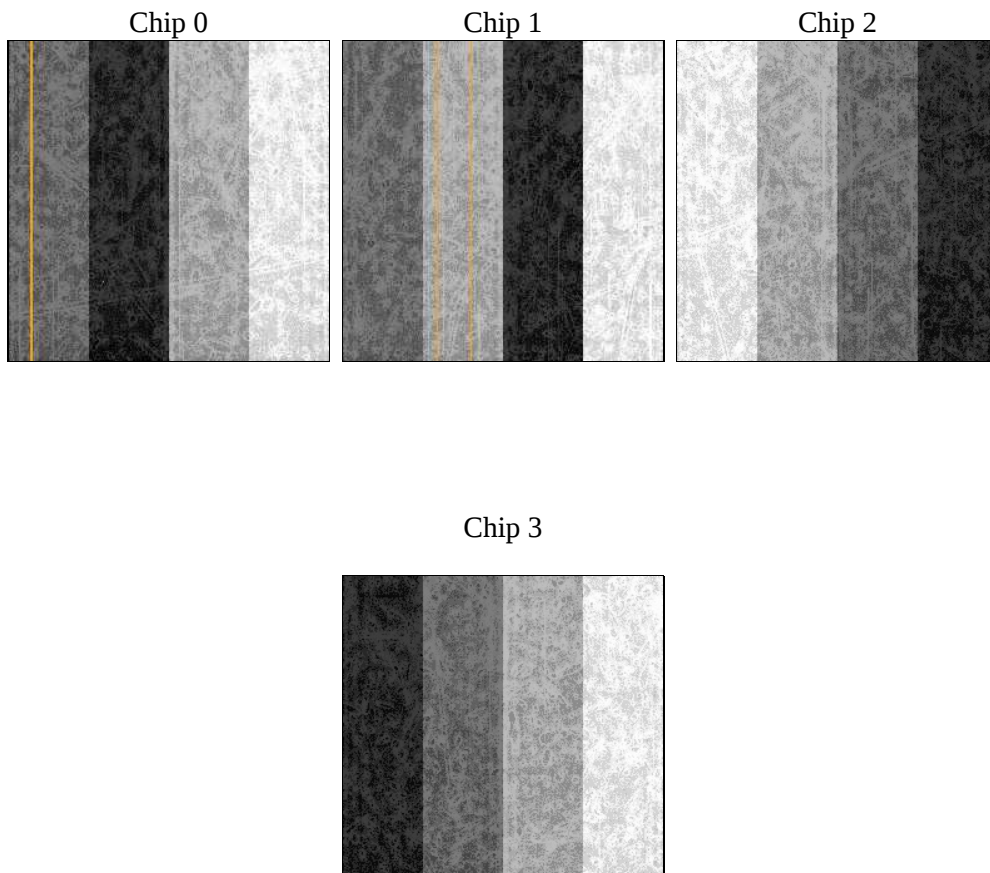
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	2076.476021409	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	2076.4349814653	Sum of GTIs [s]
date	2019-07-29T04:41:07	Date and time of file creation	ontime1	2076.476021409	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	2076.5170614719	Sum of GTIs [s]
			ontime3	2076.5581014156	Sum of GTIs [s]
			l1events	62310	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	14782	15332	16020	16176
rejected events	12850	13169	14194	14381
rejected %	86%	85%	88%	88%

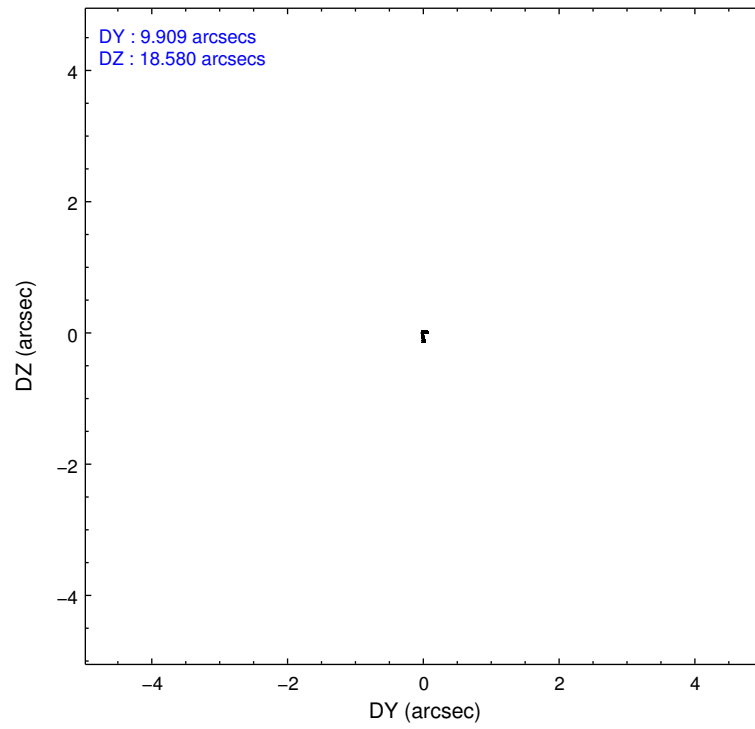
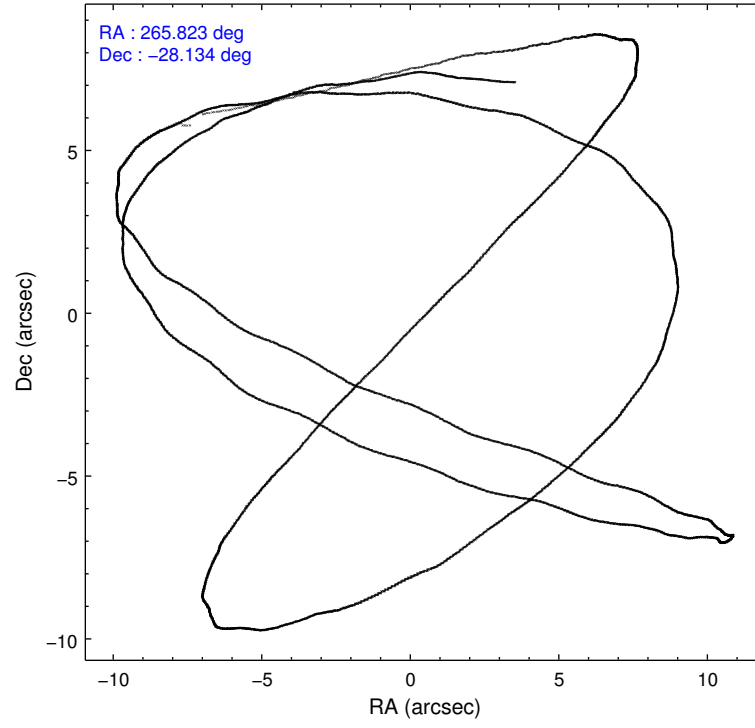
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	779	801	742	702
	5%	5%	4%	4%
grade 1 events	7	5	11	7
	0%	0%	0%	0%
grade 2 events	406	582	416	354
	2%	3%	2%	2%
grade 3 events	211	168	167	203
	1%	1%	1%	1%
grade 4 events	165	163	160	167
	1%	1%	0%	1%
grade 5 events	678	693	620	776
	4%	4%	3%	4%
grade 6 events	377	456	346	375
	2%	2%	2%	2%
grade 7 events	12159	12464	13558	13592
	82%	81%	84%	84%

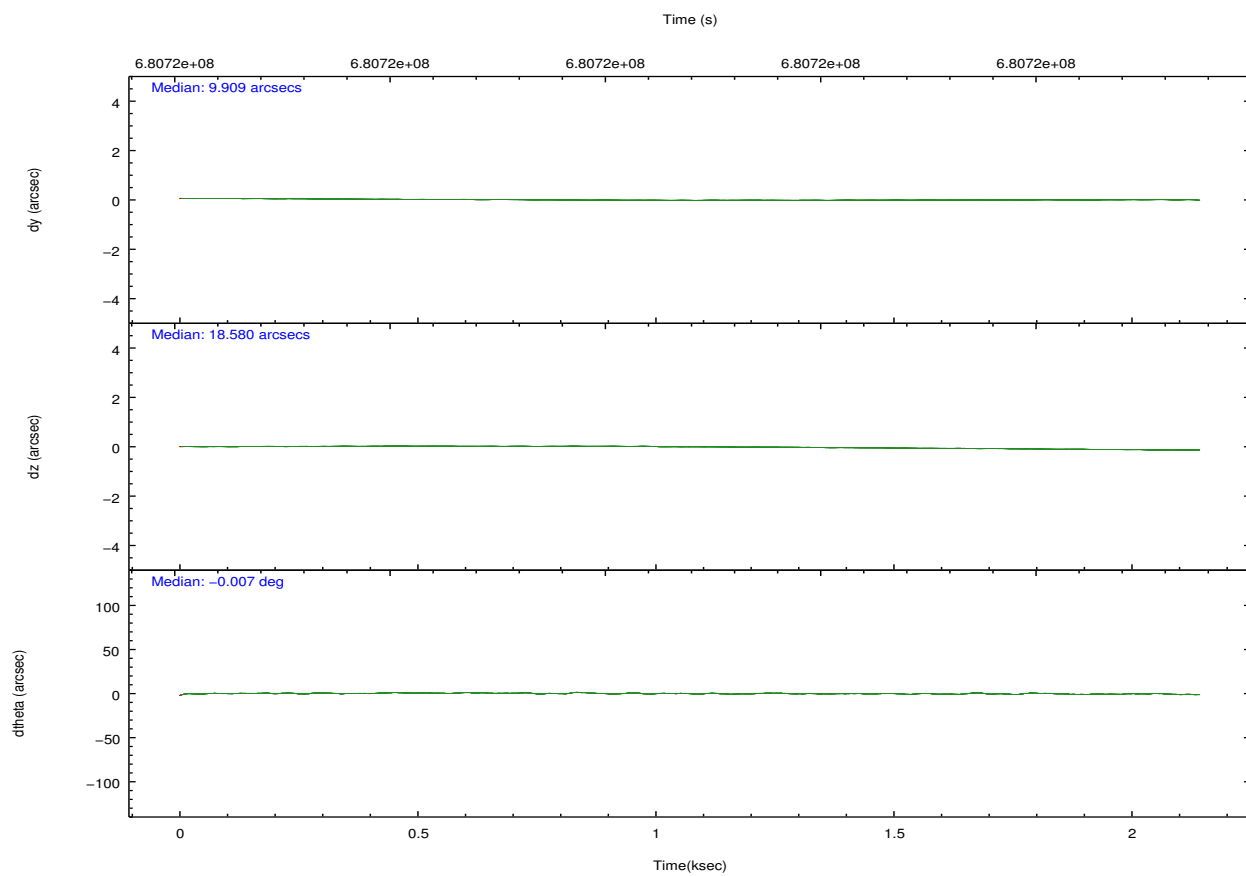
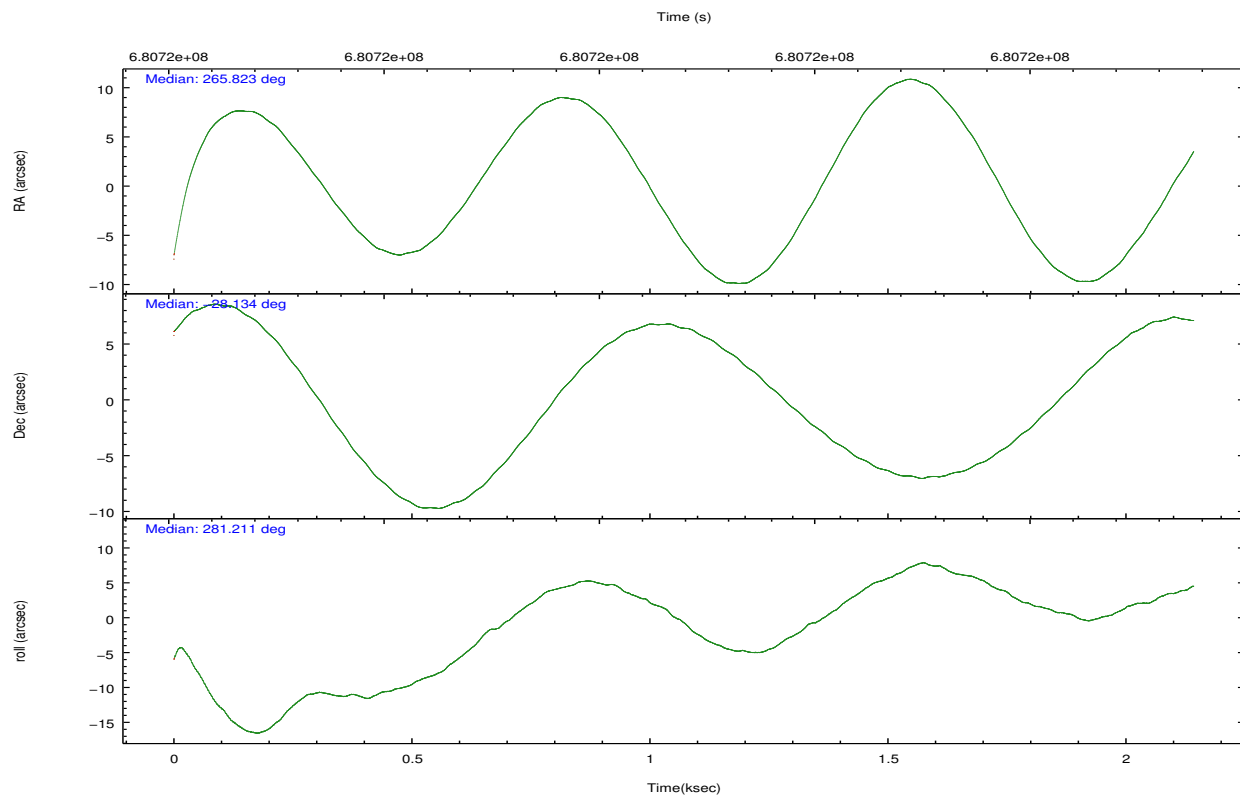
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	265.802649	265.8233485586683
[deg] Pointing Dec	-28.113324	-28.1338746430489
[deg] Pointing Roll	280.996815	281.2153505229638
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	680720757.184000	680719551.96675
Observation start date	2019-07-28T17:04:48	2019-07-28T16:45:51
[s] Observation end time (MET)	680722757.184000	680722890.9044501
Observation end date	2019-07-28T17:38:08	2019-07-28T17:41:30
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	3.1

2.3 Aspect



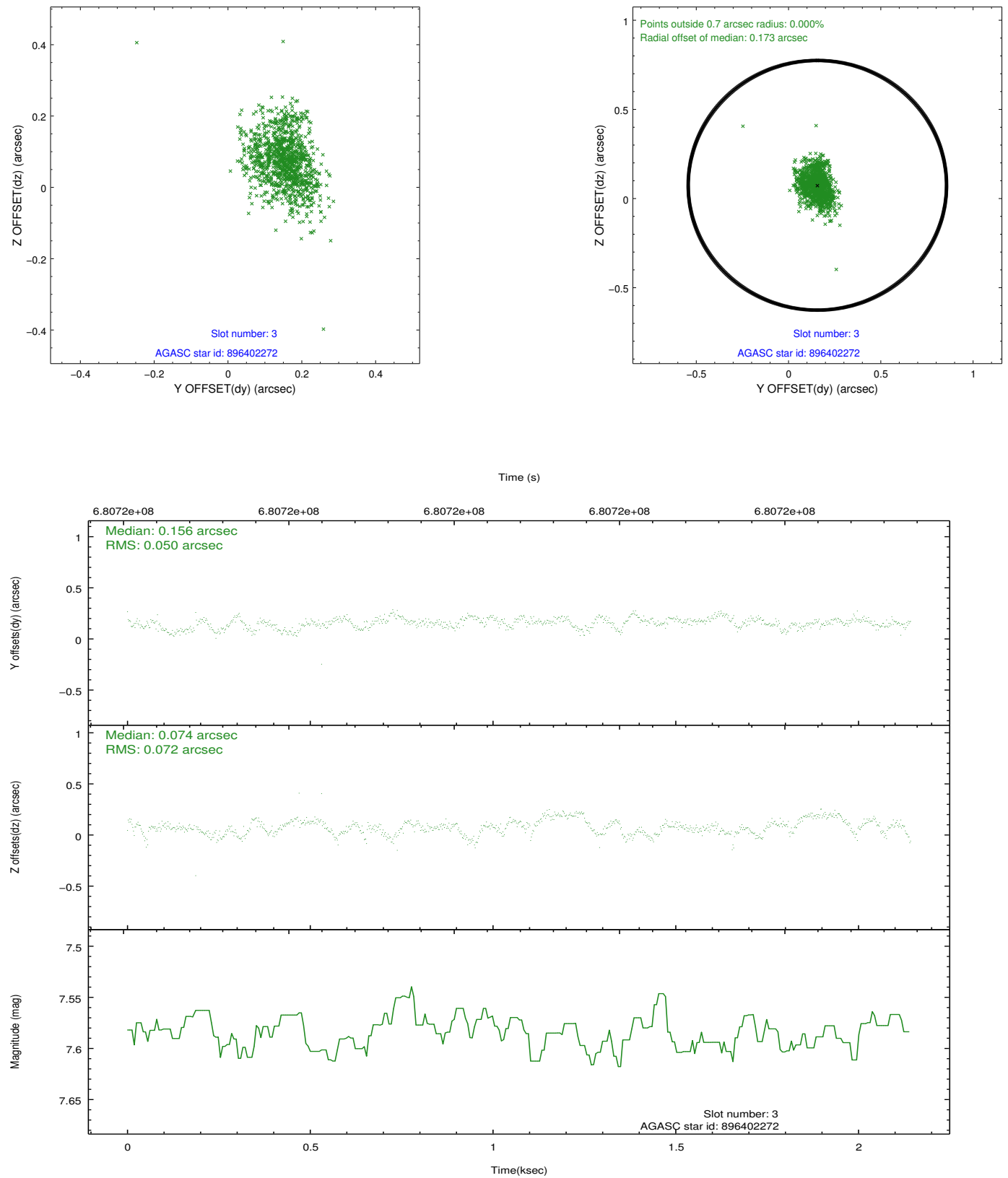


Slot Statistics

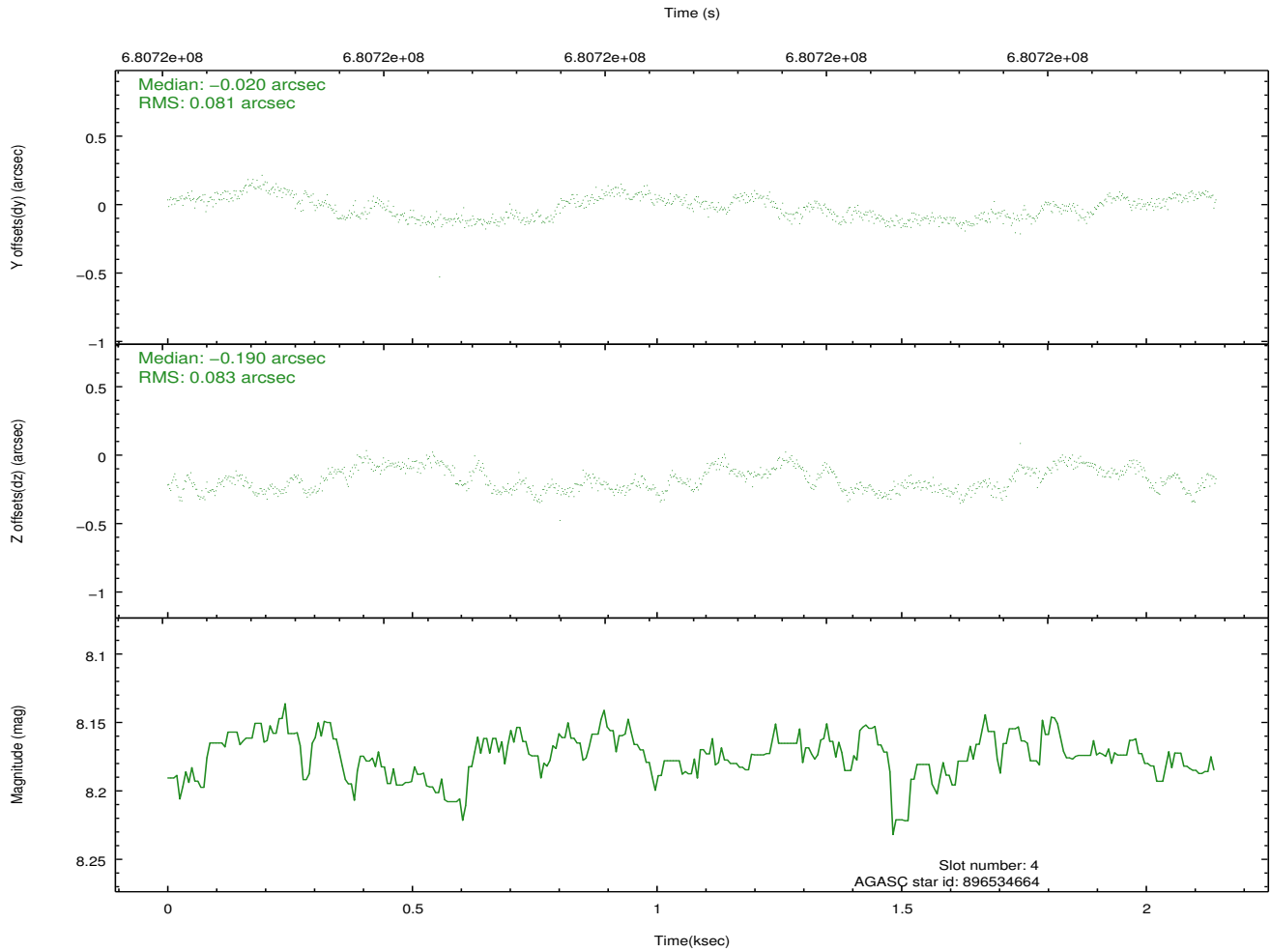
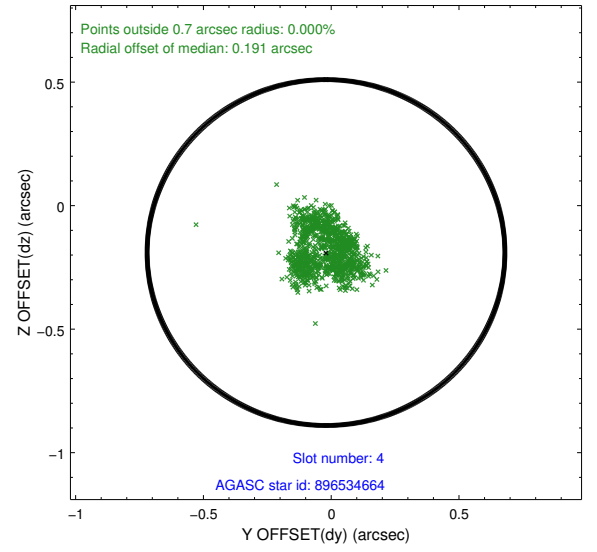
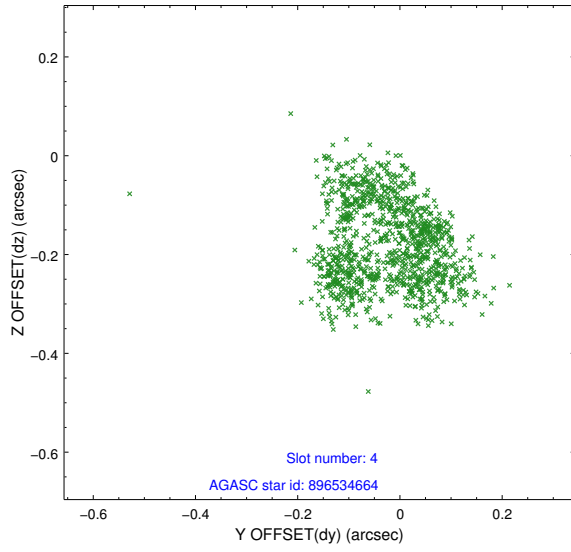
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		7.26	523	1.000	0.112	-0.064	0.006	0.010	0.000000	0.000000	929.86	-842
1	FID		7.24	523	1.000	-0.464	0.041	0.006	0.010	0.000000	0.000000	-1817.29	1053
2	FID		7.24	523	1.000	0.261	0.093	0.007	0.012	0.000000	0.000000	392.04	1701
3	GUIDE	used	7.58	1045	1.000	0.156	0.074	0.091	0.147	265.637294	-28.313189	607.74	-651
4	GUIDE	used	8.17	1044	1.000	-0.020	-0.190	0.124	0.179	266.405570	-28.407461	1410.56	1670
5	GUIDE	used	7.99	1045	1.000	-0.143	-0.199	0.081	0.126	266.498272	-28.678259	2423.96	1769
6	GUIDE	used	8.79	1043	1.000	0.142	0.335	0.102	0.169	265.739192	-28.230753	380.00	-276
7	GUIDE	used	8.28	1044	1.000	-0.124	-0.057	0.134	0.219	266.154264	-28.178023	444.07	1050

2.4 Star Slots

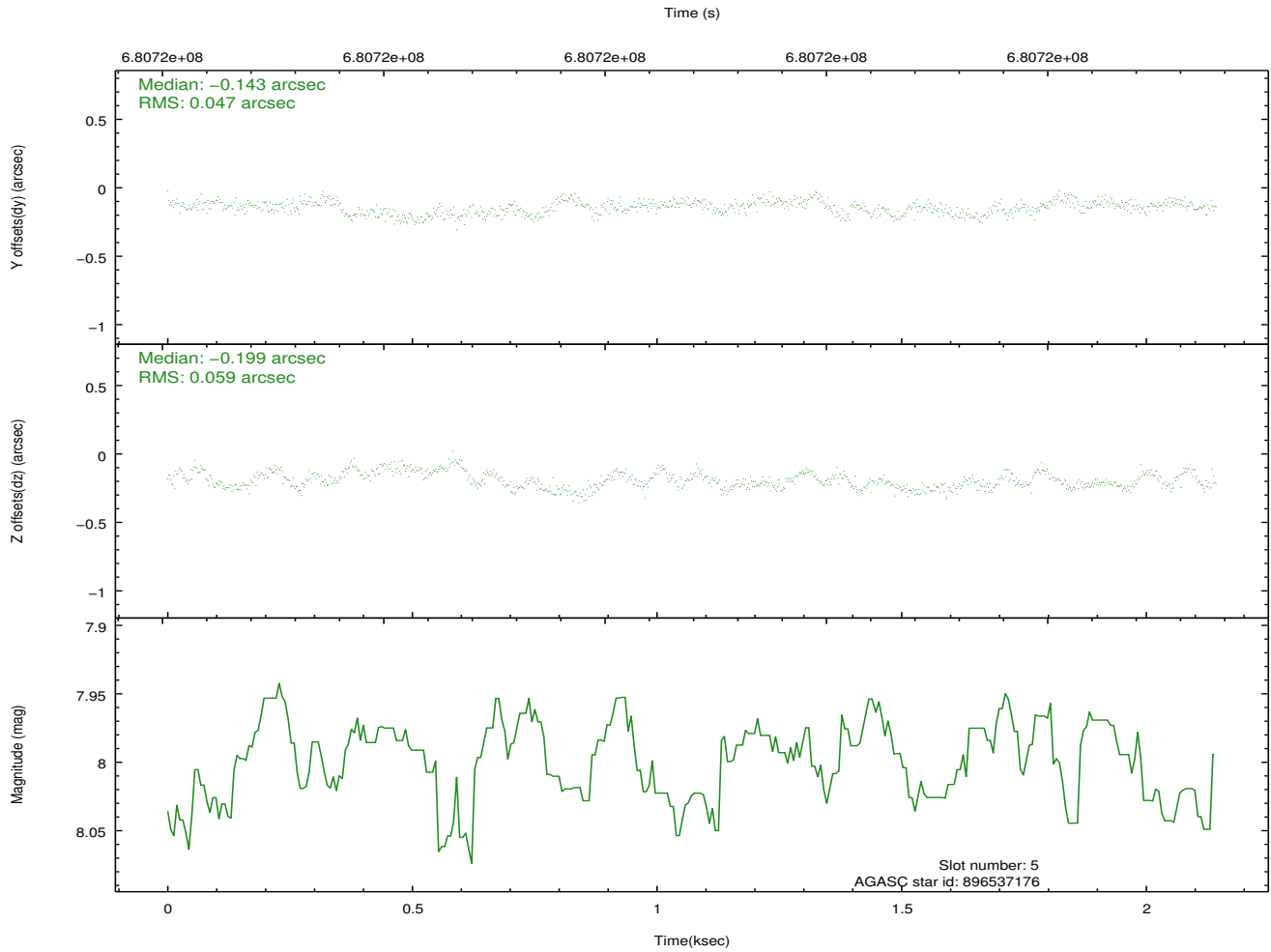
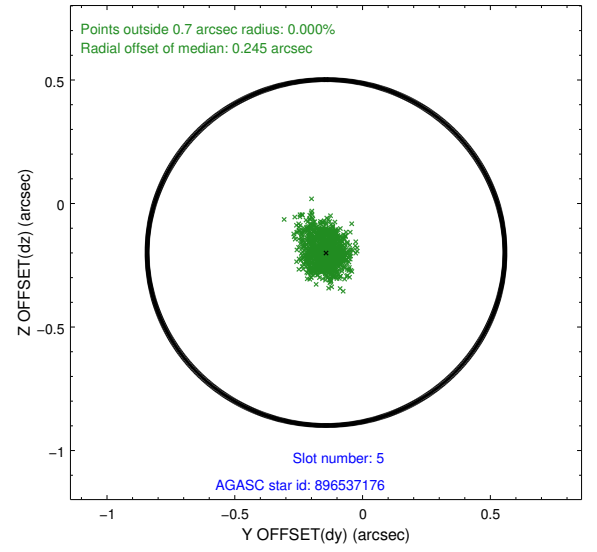
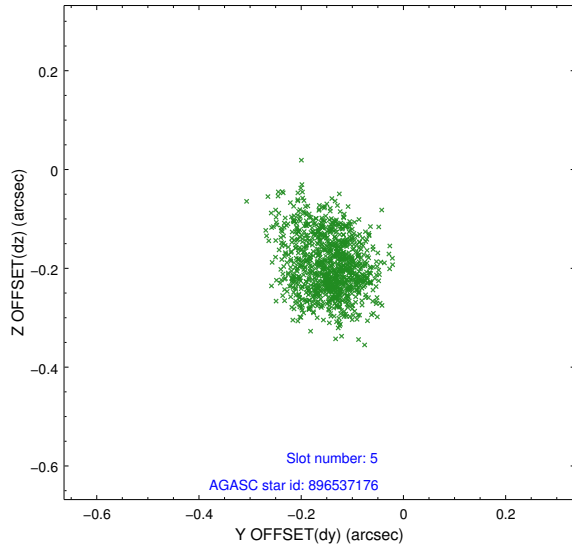
2.4.1 Slot 3



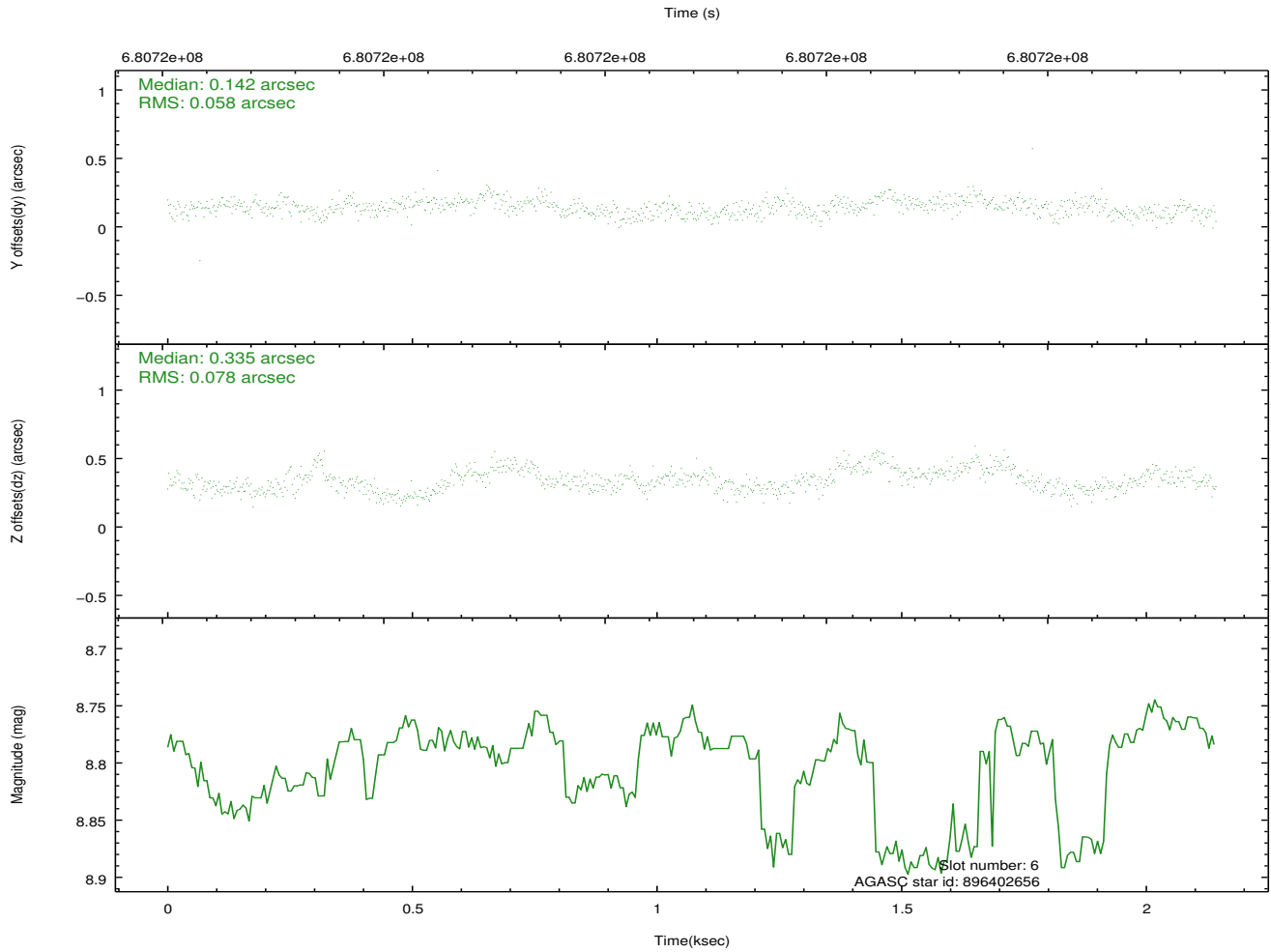
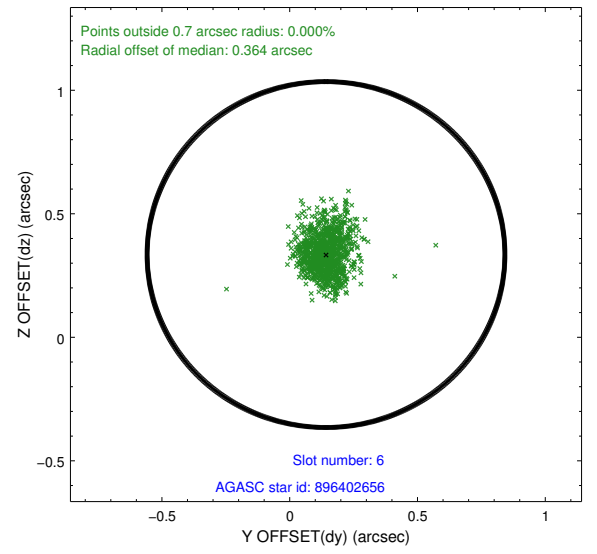
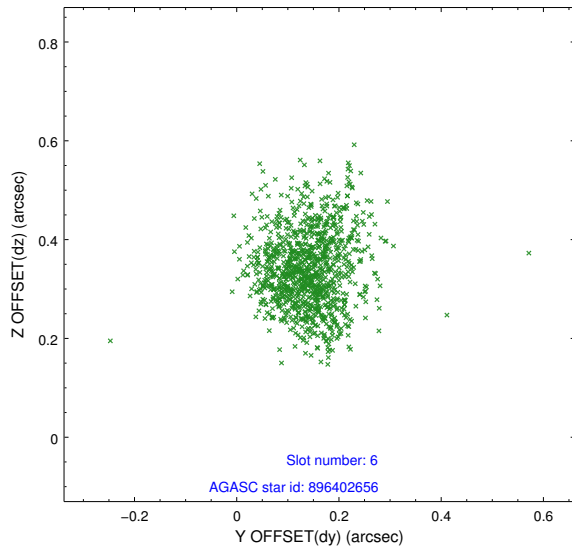
2.4.2 Slot 4



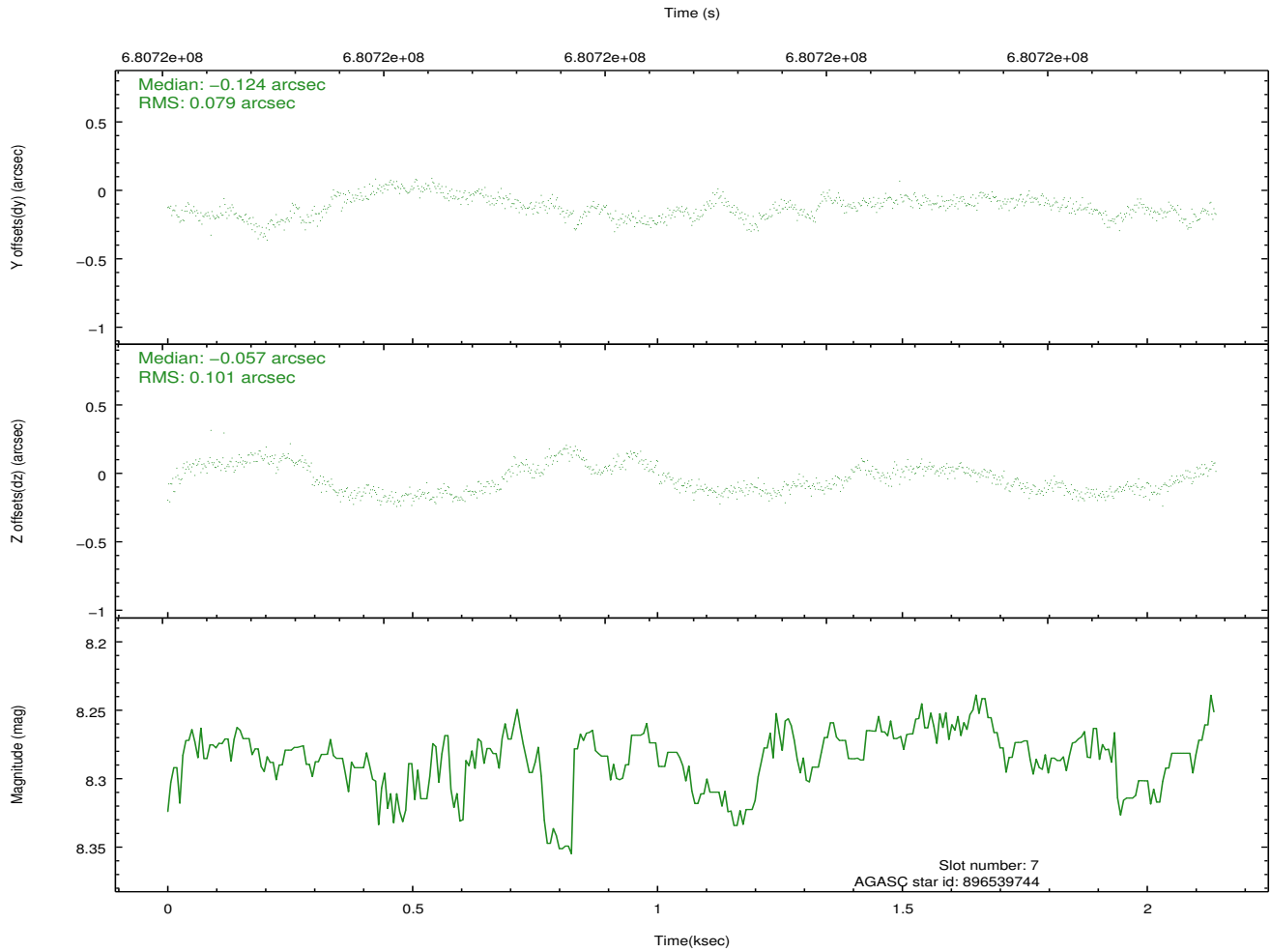
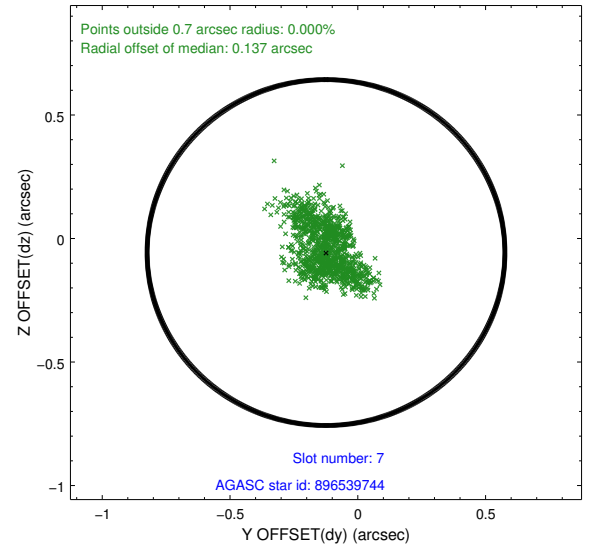
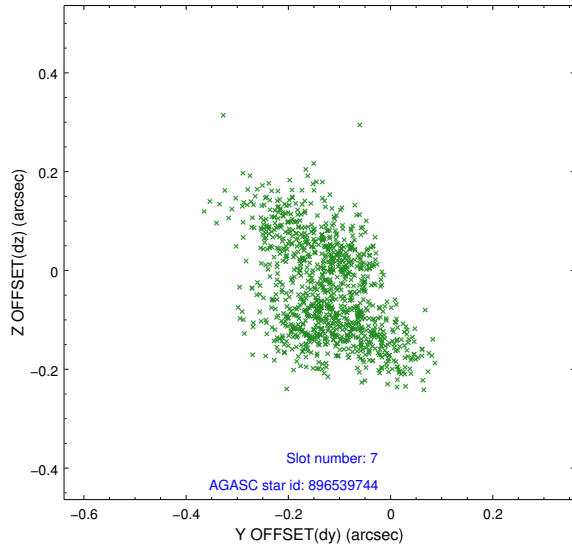
2.4.3 Slot 5



2.4.4 Slot 6

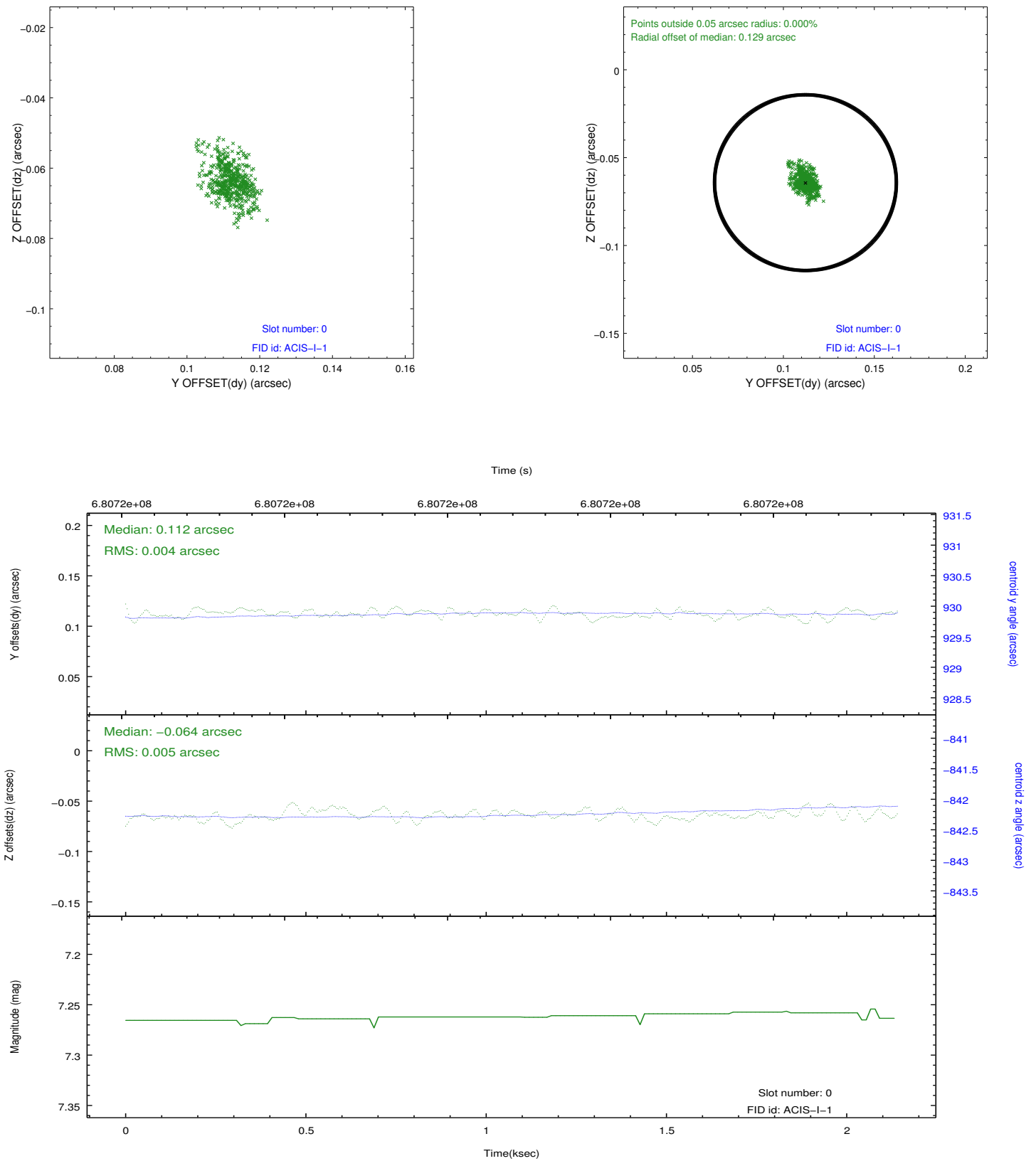


2.4.5 Slot 7

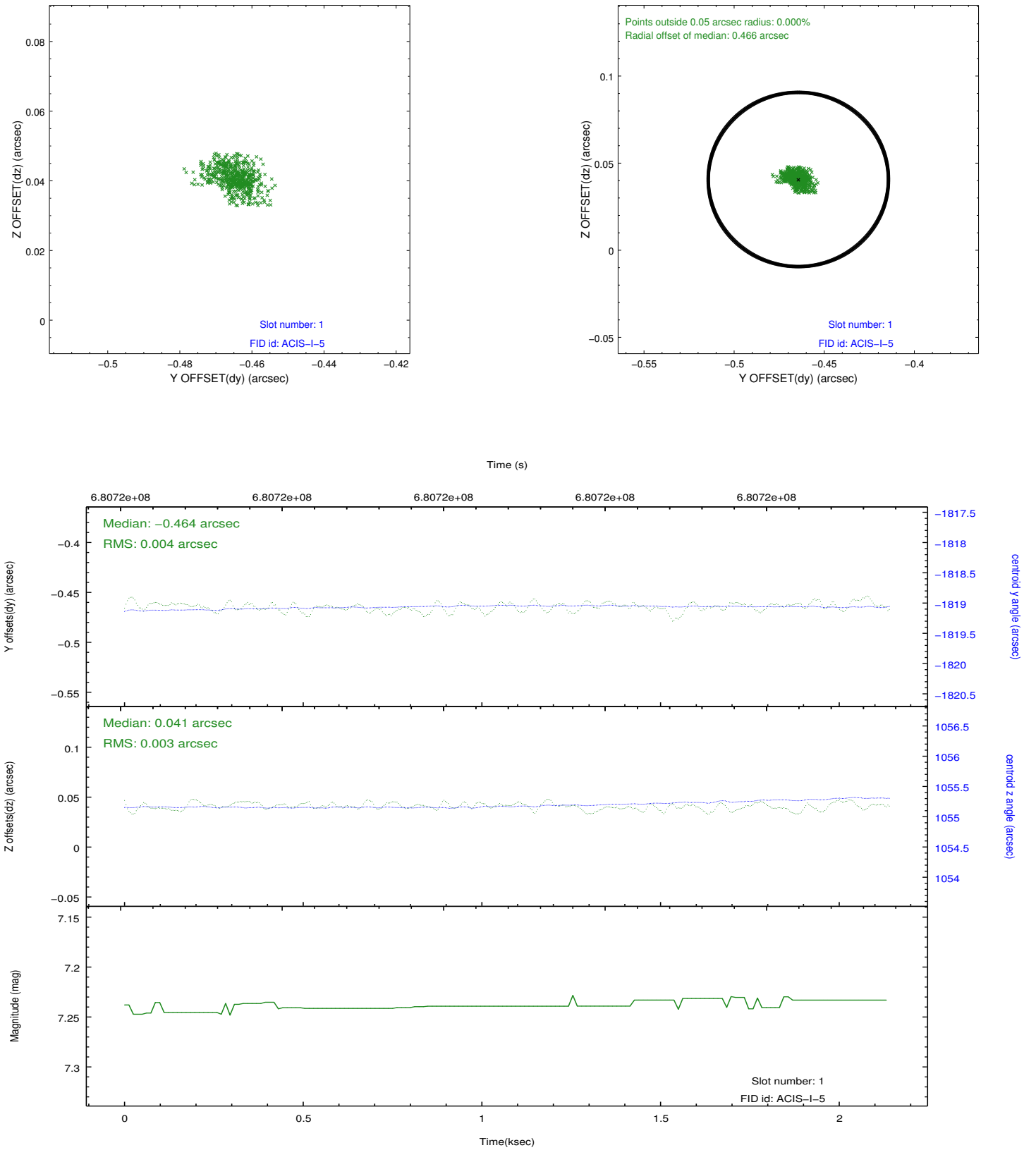


2.5 FID Slots

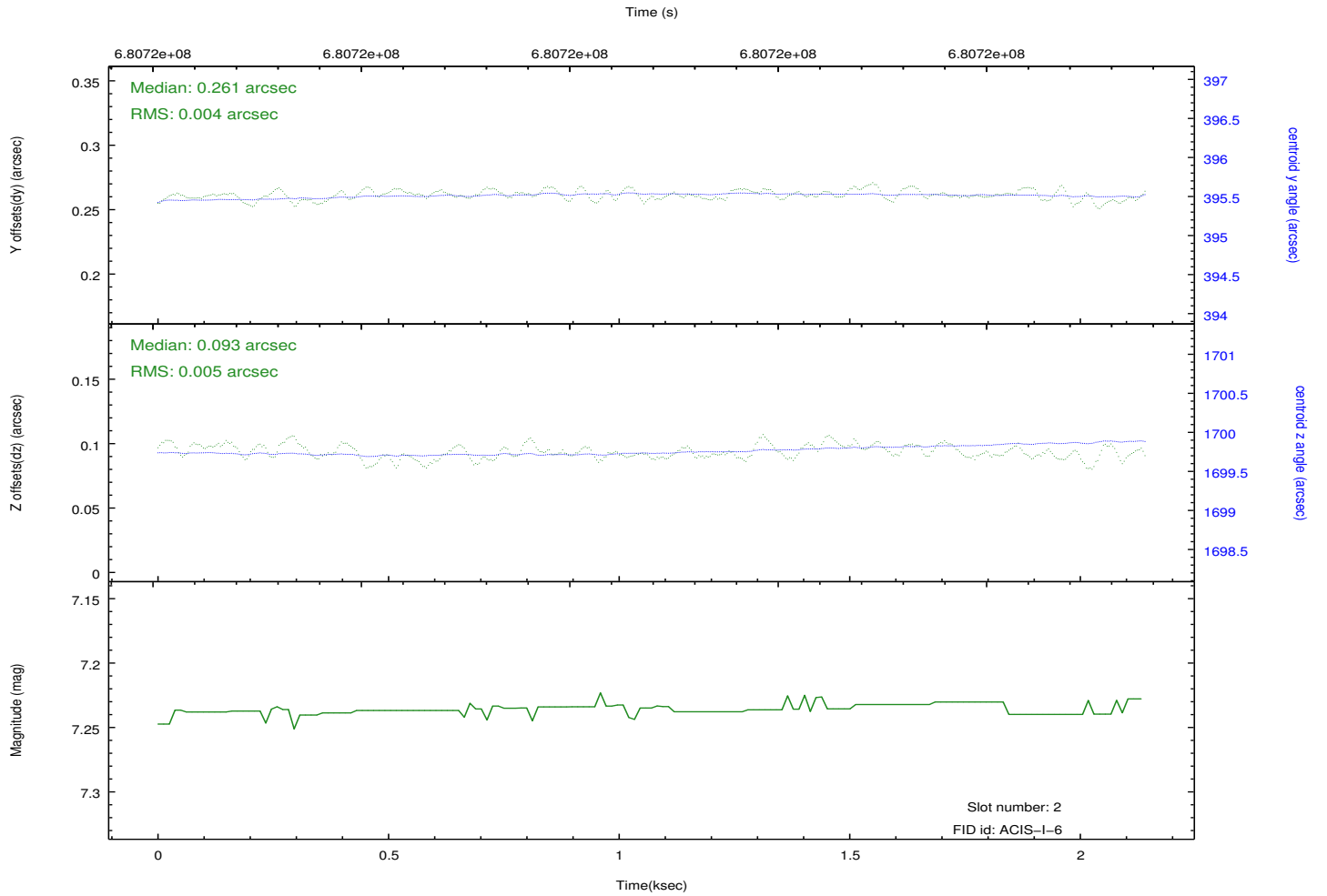
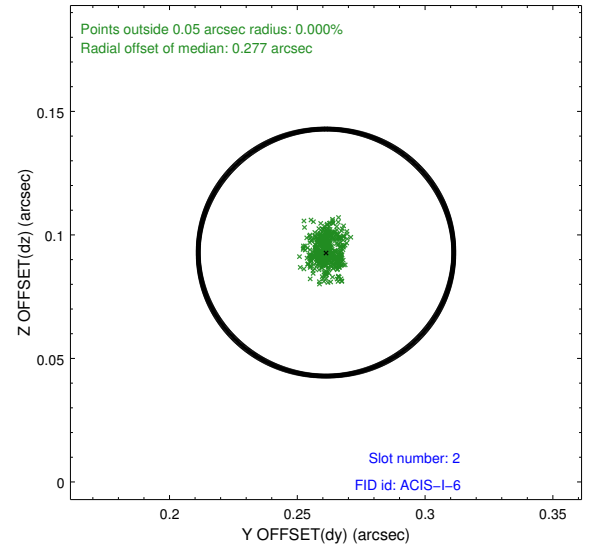
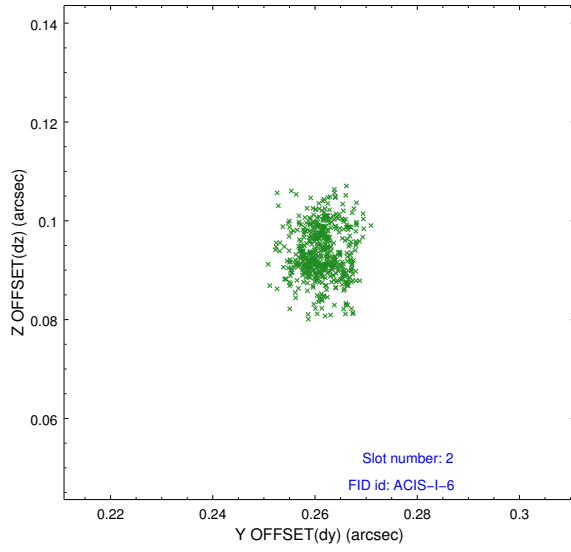
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.076476021409

A.2 Comments