

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21590 - L2 Version 1
Chandra X-Ray Center

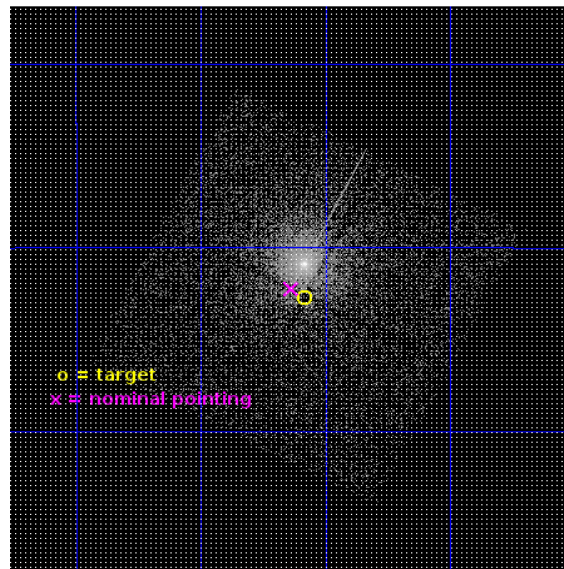
L2 Processing Date : Jul 3 2019

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1 Front

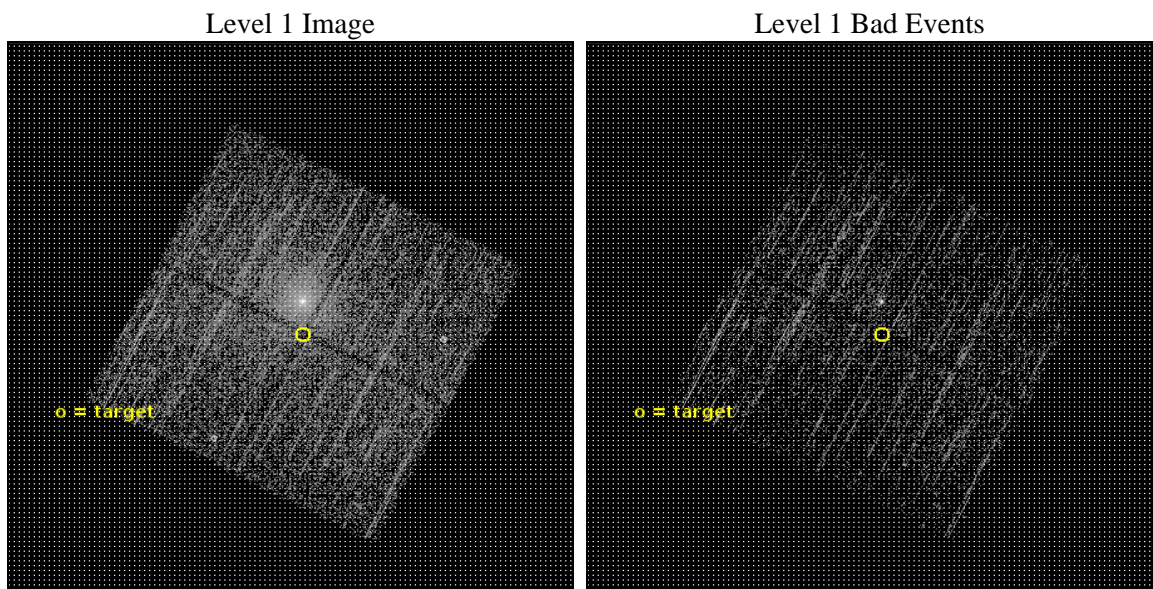
seq_num	300422	Sequence number
obs_id	21590	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.52087	Observer's specified target RA [deg]
dec_targ	-29.54579	Observer's specified target Dec [deg]
ra_nom	266.53409306544	Nominal RA [deg]
dec_nom	-29.537460398679	Nominal Dec [deg]
roll_nom	297.21519247257	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.6214767694	Sum of GTIs [s]
livetime	1883.6839320688	Livetime [s]
ontime0	1908.5804468393	Sum of GTIs [s]
ontime1	1908.6214767694	Sum of GTIs [s]
ontime2	1908.6625168324	Sum of GTIs [s]
ontime3	1908.703556776	Sum of GTIs [s]
l2events	21510	Number of level 2 events



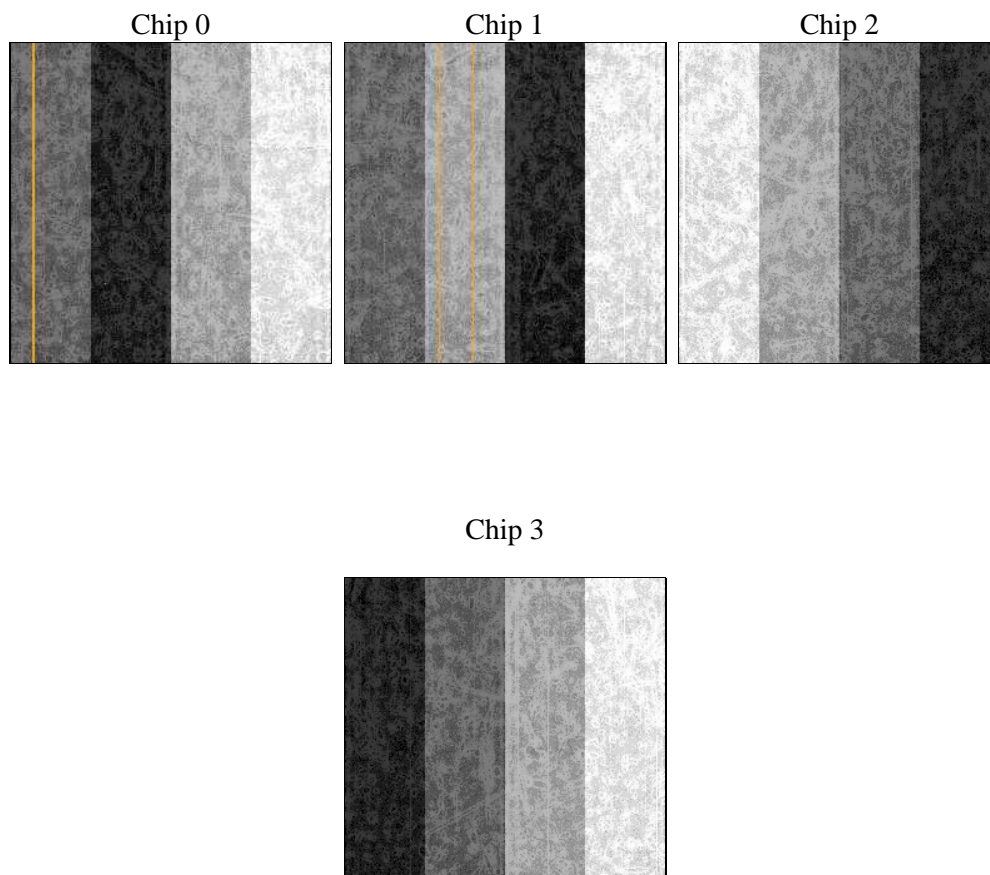
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.6214767694	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.5804468393	Sum of GTIs [s]
date	2019-07-03T19:47:42	Date and time of file creation	ontime1	1908.6214767694	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.6625168324	Sum of GTIs [s]
			ontime3	1908.703556776	Sum of GTIs [s]
			l1events	78851	Number of level 1 events

2.1.4 Events

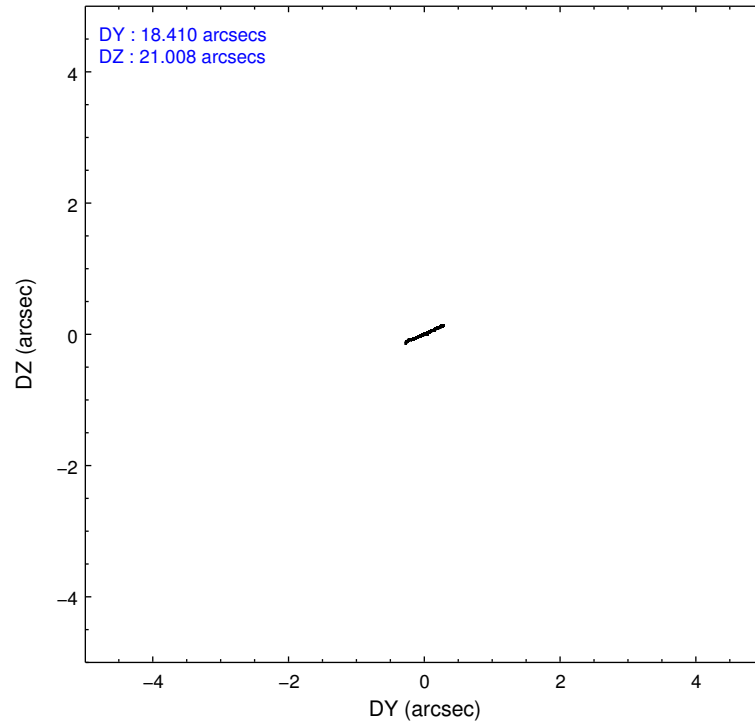
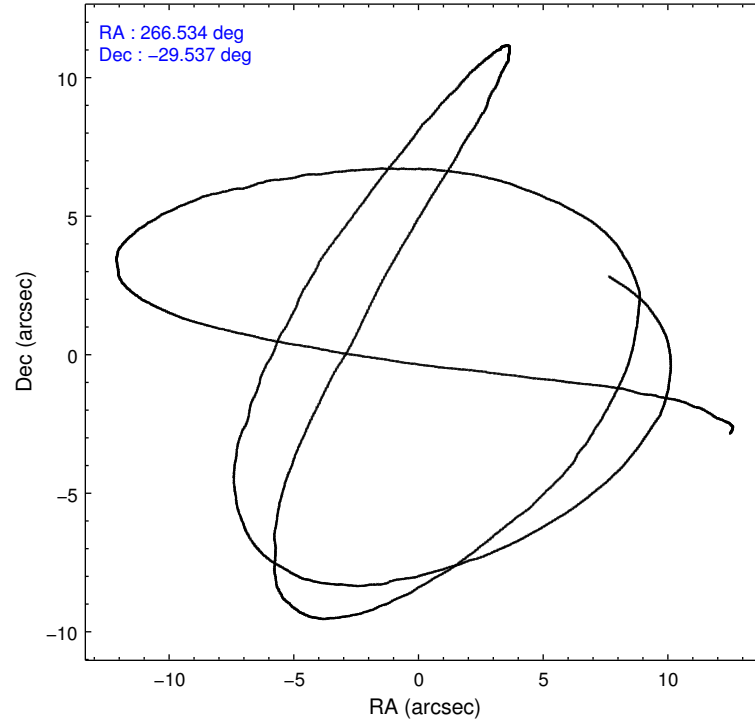
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	15278	17413	18524	27636
rejected events	12579	12297	14745	15039
rejected %	82%	70%	79%	54%

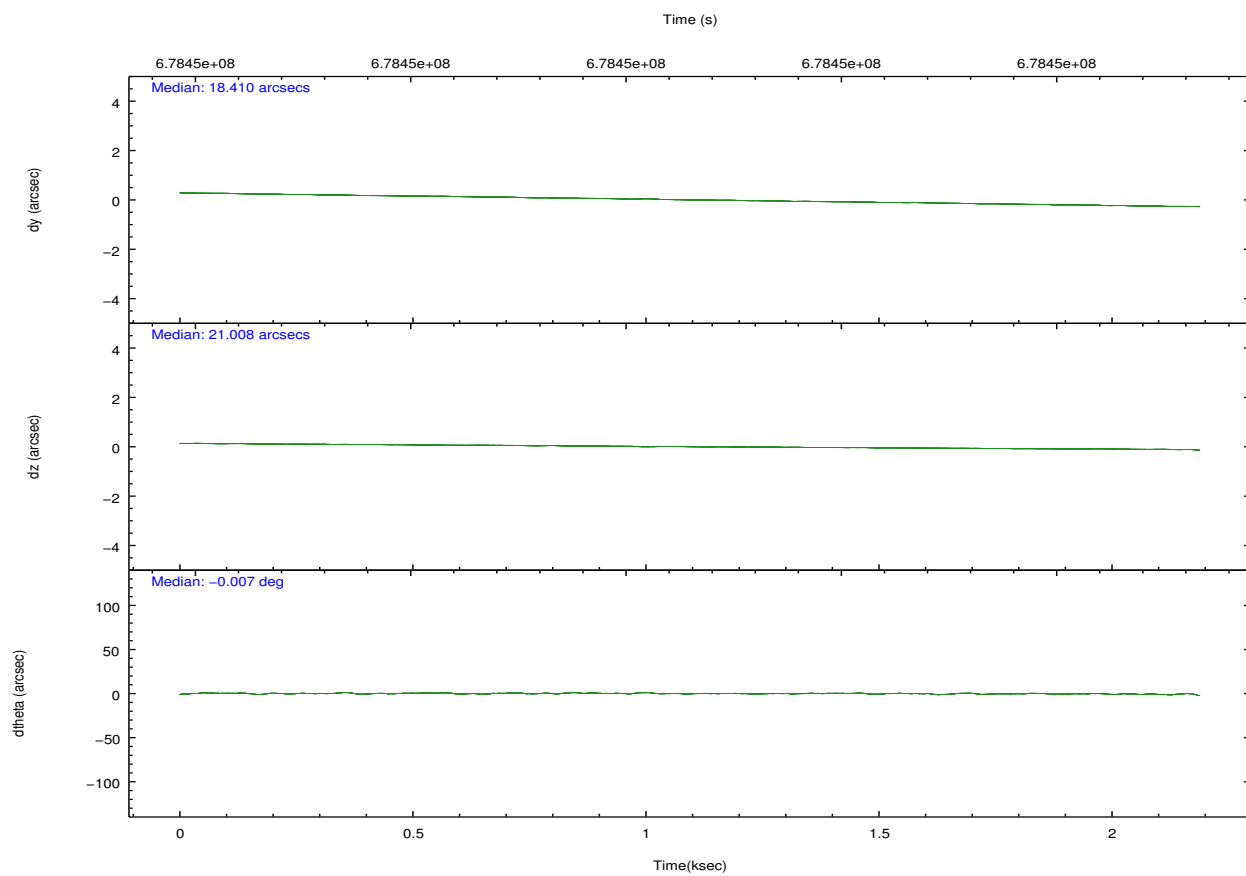
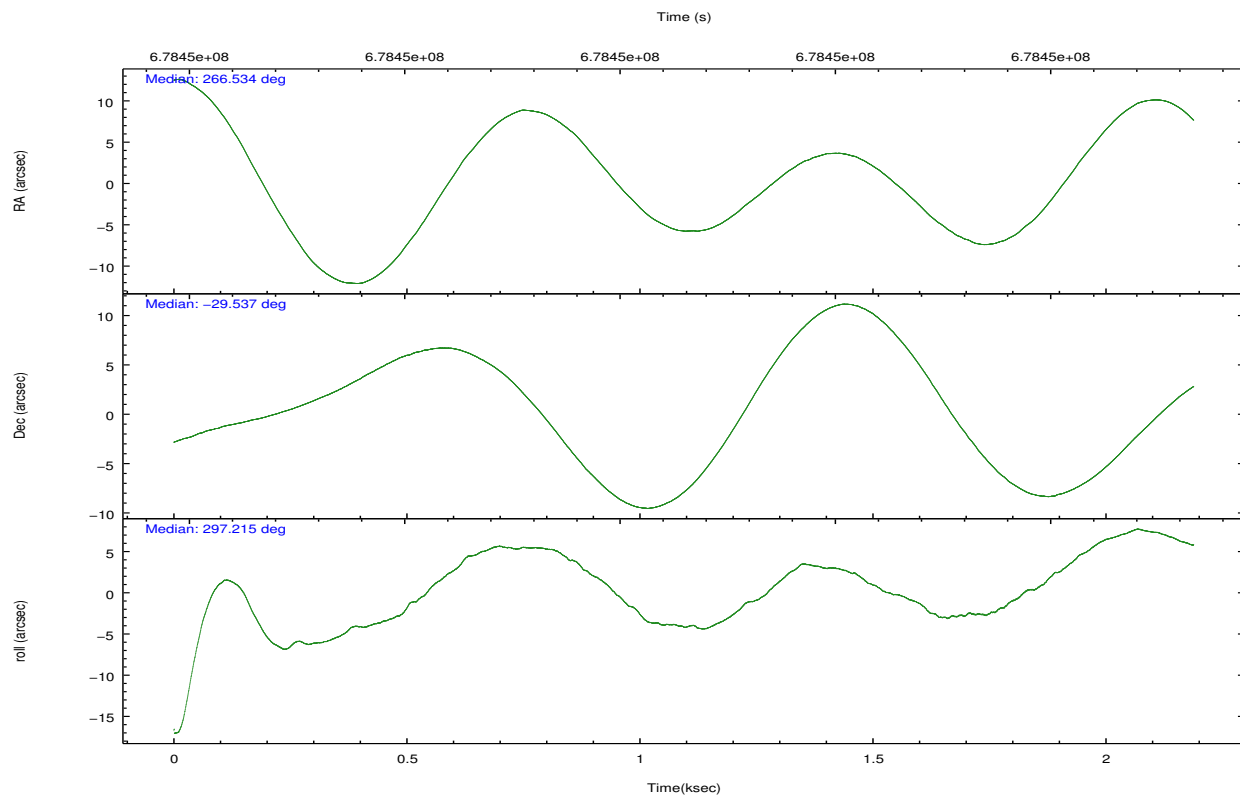
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1312	2881	2350	8131
	8%	16%	12%	29%
grade 1 events	15	13	22	139
	0%	0%	0%	0%
grade 2 events	589	1078	582	1839
	3%	6%	3%	6%
grade 3 events	202	270	217	695
	1%	1%	1%	2%
grade 4 events	183	246	225	702
	1%	1%	1%	2%
grade 5 events	621	632	596	908
	4%	3%	3%	3%
grade 6 events	417	648	408	1244
	2%	3%	2%	4%
grade 7 events	11939	11645	14124	13978
	78%	66%	76%	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.507192	266.5340930654426	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.522534	-29.53746039867866	Alternating exposures requested	N	N
[deg] Pointing Roll	296.993264	297.2151924725677	[s] Primary exposure time	0.000000	3.1
[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)	678446737.184000	678446361.66775			
Observation start date	2019-07-02T09:24:28	2019-07-02T09:19:21			
[s] Observation end time (MET)	678448737.184000	678449584.2679501			
Observation end date	2019-07-02T09:57:48	2019-07-02T10:13:04			
Read mode	TIMED	TIMED			

2.3 Aspect



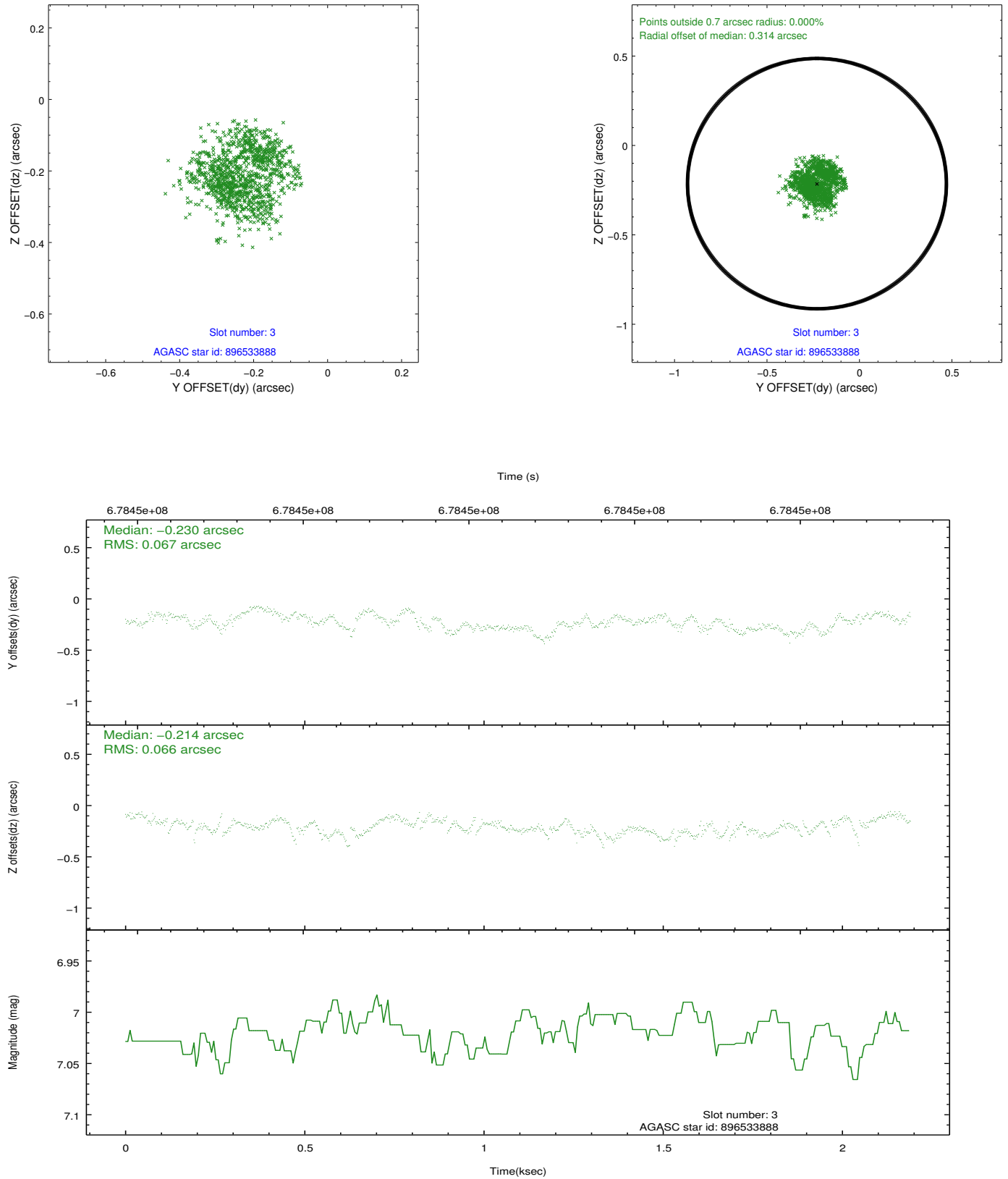


Slot Statistics

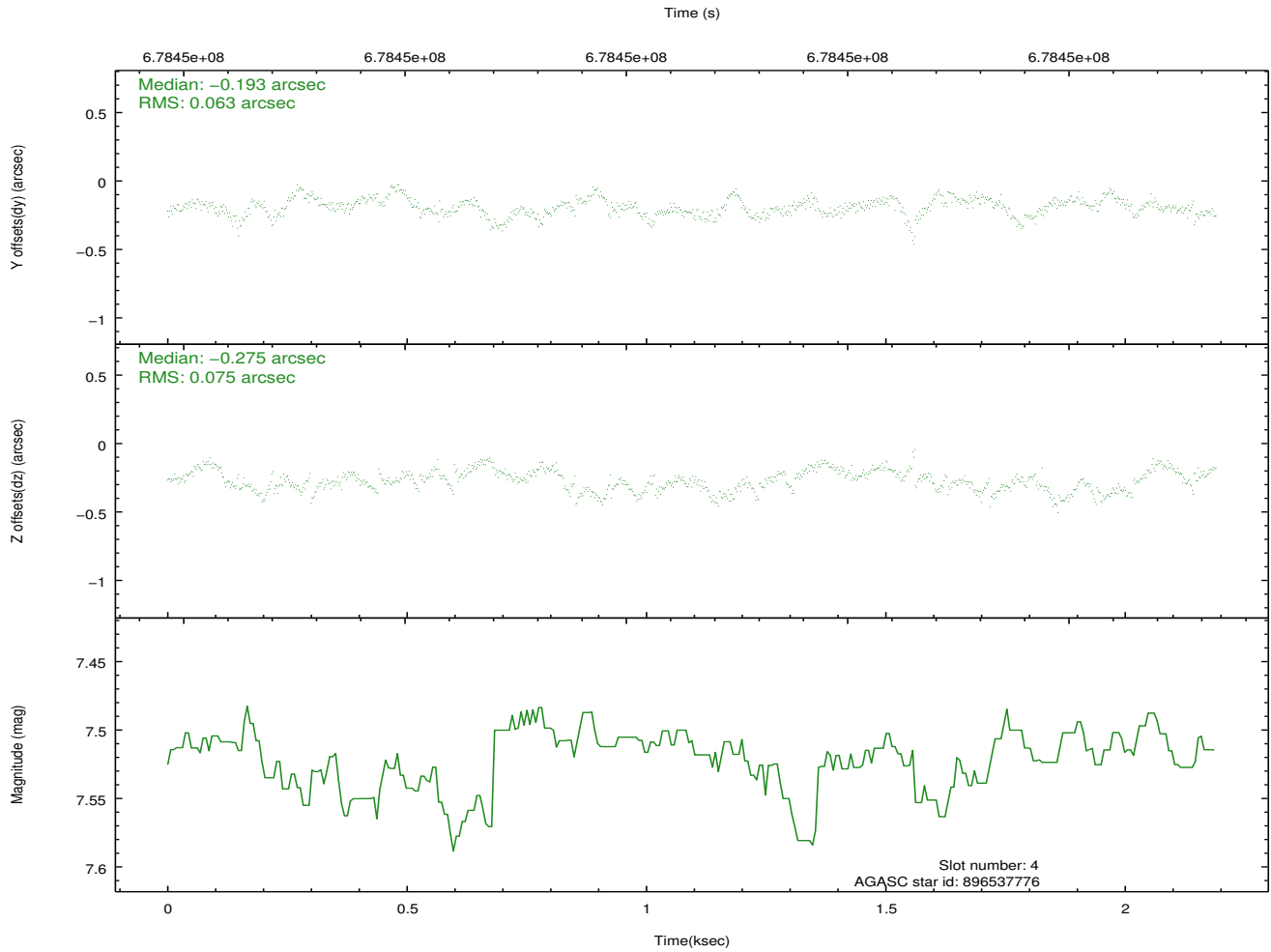
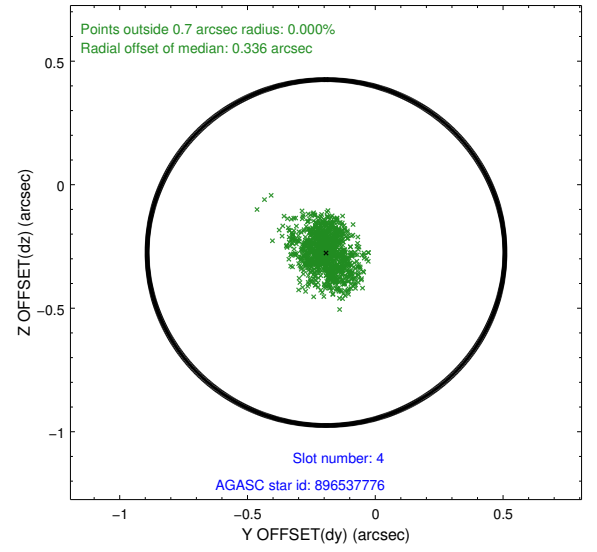
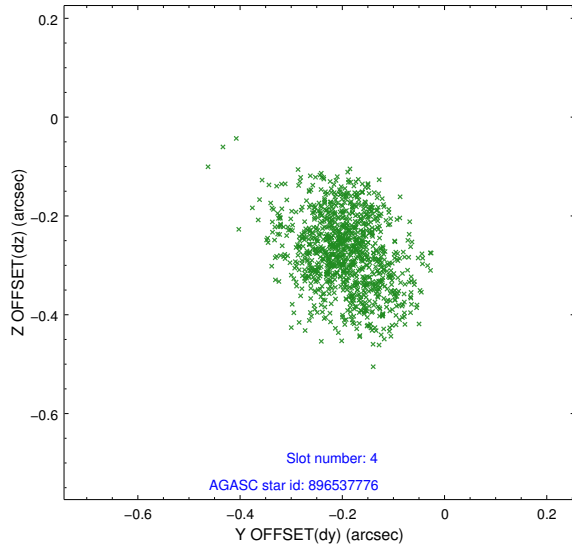
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.22	534	1.000	0.108	-0.128	0.007	0.013	0.000000	0.000000	921.14	-844
1	FID		ACIS-I-5	7.19	534	1.000	-0.560	-0.007	0.007	0.013	0.000000	0.000000	-1826.18	1051
2	FID		ACIS-I-6	7.20	534	1.000	0.360	0.206	0.006	0.011	0.000000	0.000000	383.44	1699
3	GUIDE	used	896533888	7.02	1069	1.000	-0.230	-0.214	0.104	0.150	266.666434	-29.392757	-189.36	656
4	GUIDE	used	896537776	7.52	1069	1.000	-0.193	-0.275	0.104	0.165	266.655684	-29.665673	669.89	180
5	GUIDE	used	896540808	7.46	1069	1.000	0.290	0.546	0.089	0.142	265.985401	-29.308604	-1425.55	-1110
6	GUIDE	used	896541360	7.71	1067	1.000	-0.002	-0.125	0.132	0.287	266.684478	-29.453744	30.52	606
7	GUIDE	used	966918832	8.70	1067	1.000	0.154	0.080	0.143	0.244	266.278876	-30.183148	1797.49	-1712

2.4 Star Slots

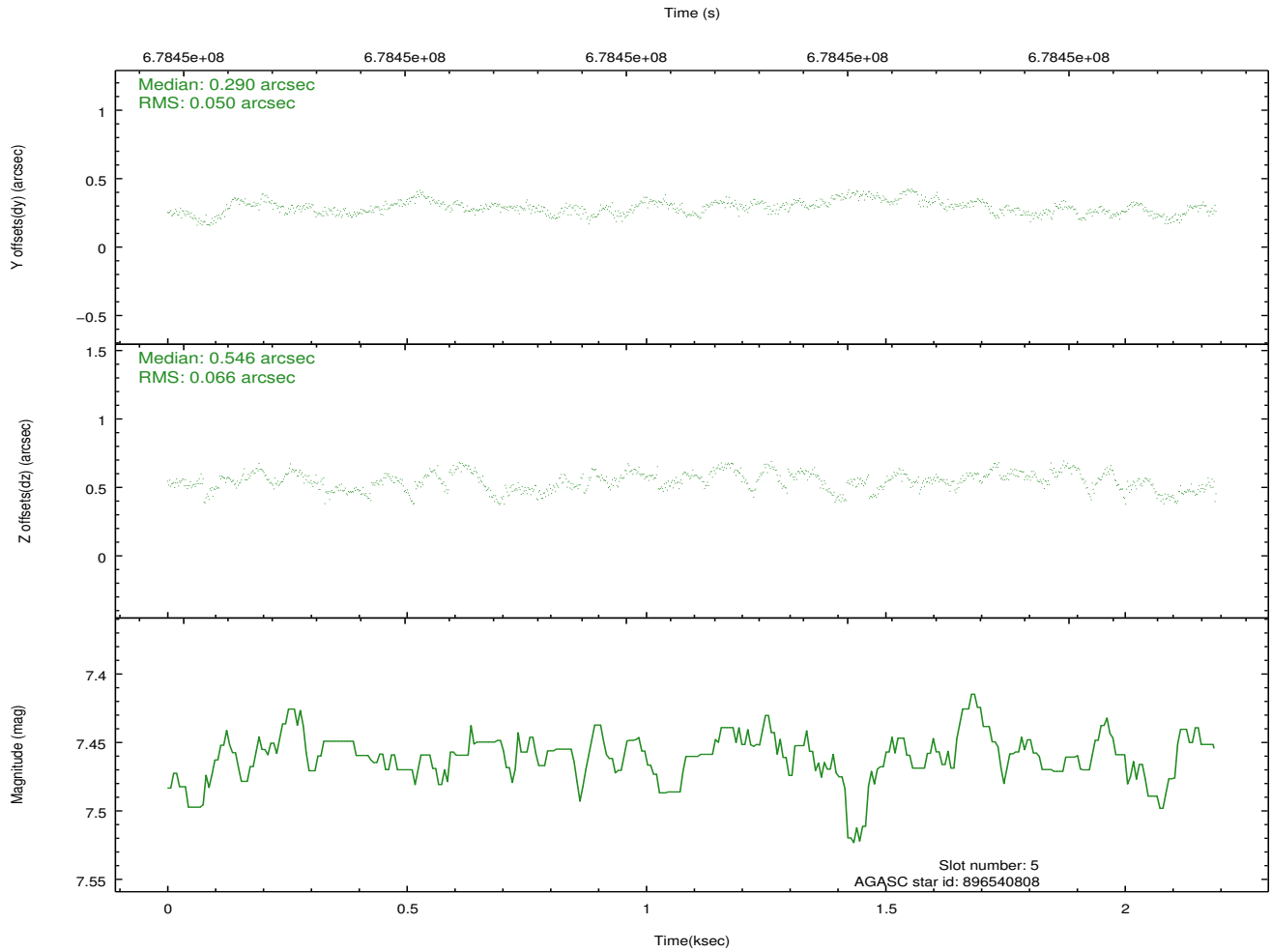
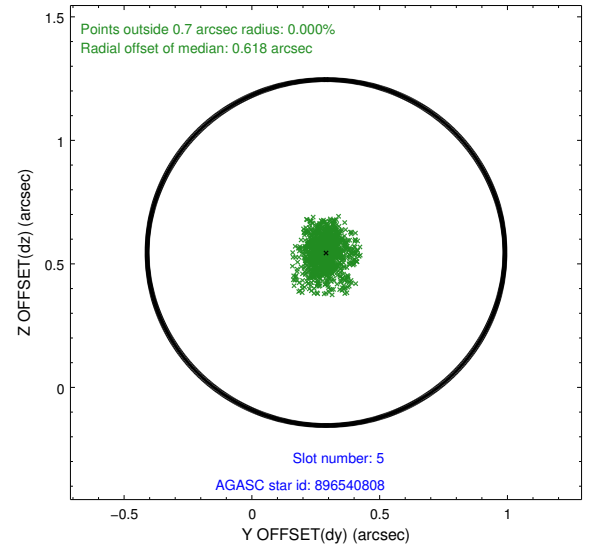
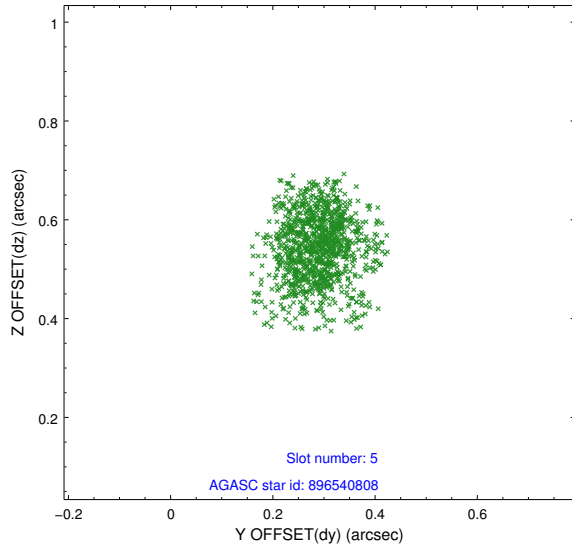
2.4.1 Slot 3



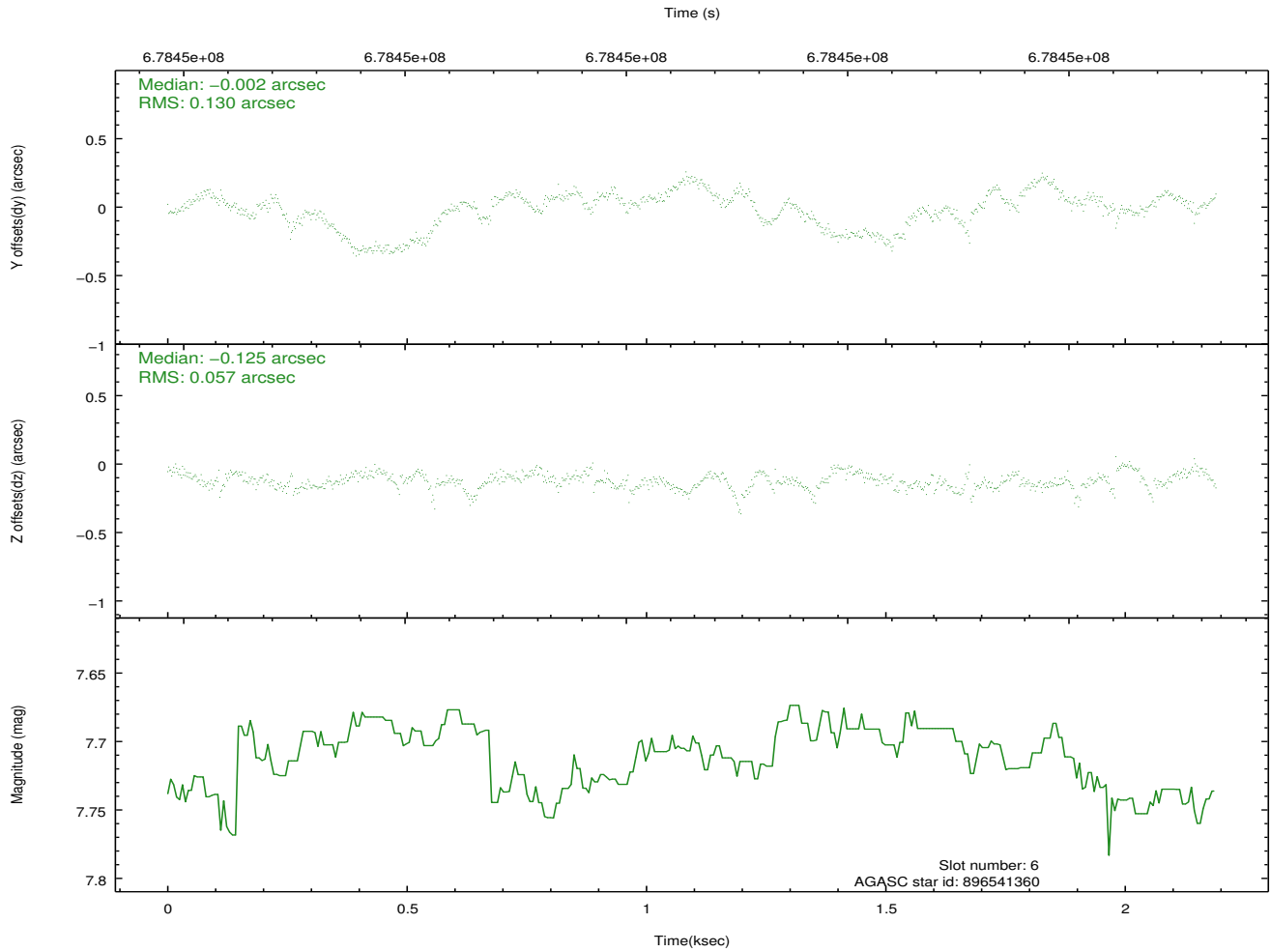
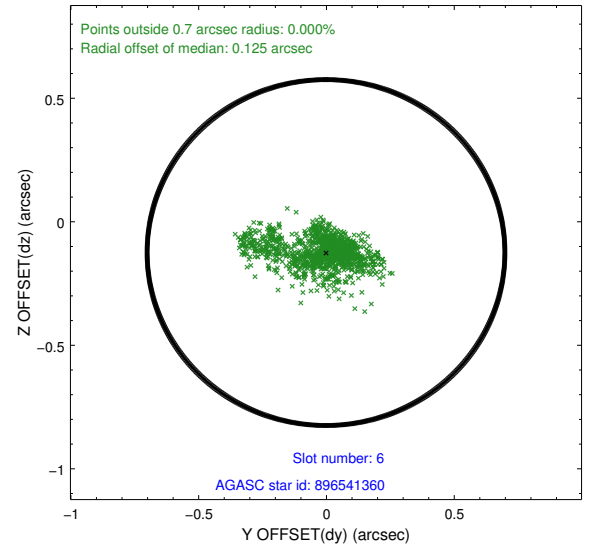
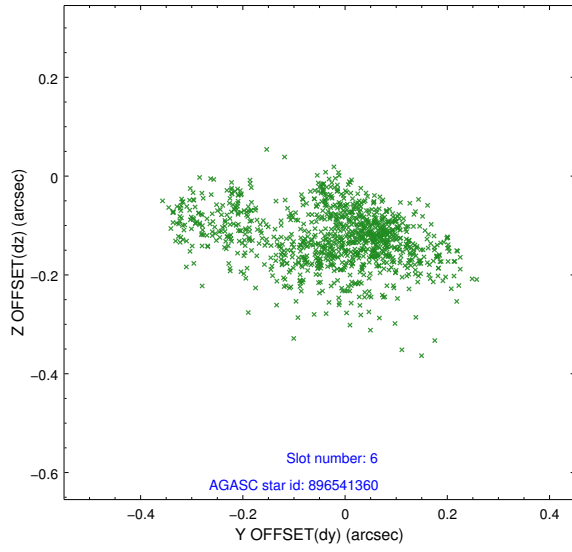
2.4.2 Slot 4



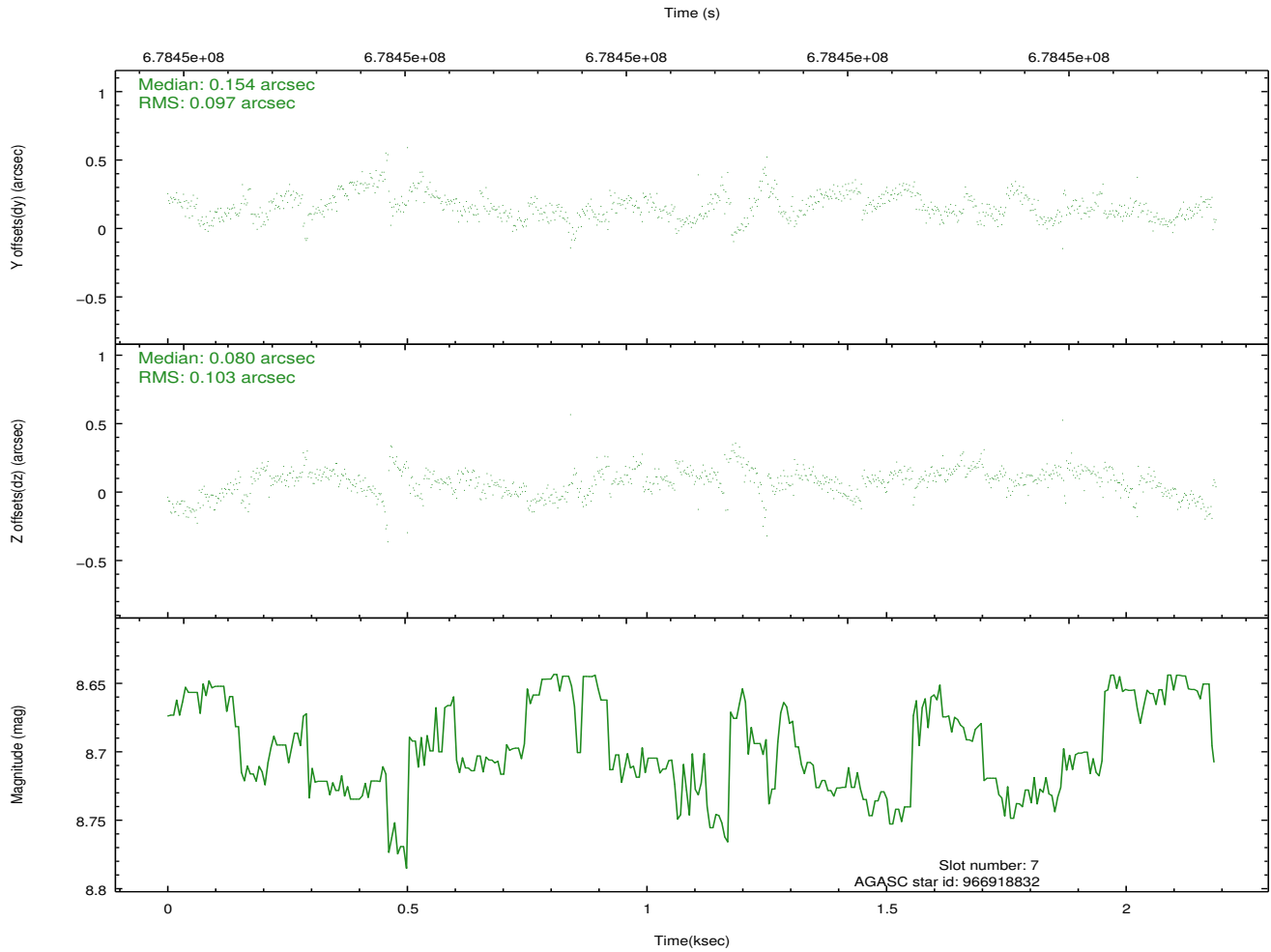
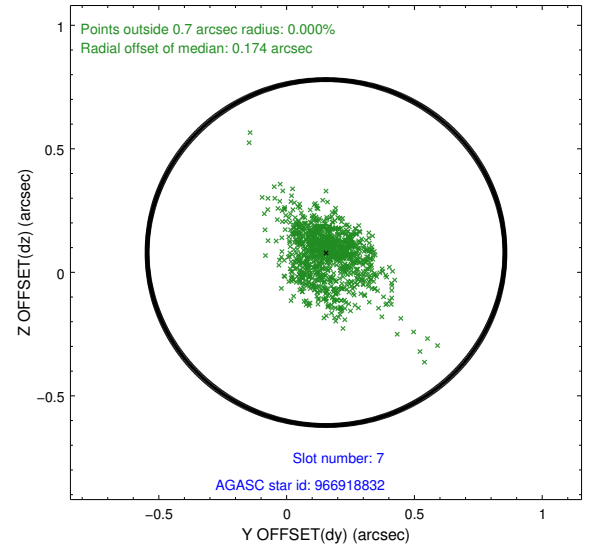
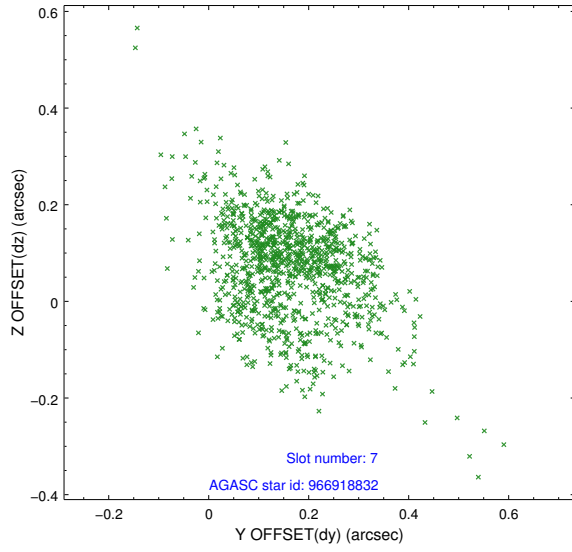
2.4.3 Slot 5



2.4.4 Slot 6

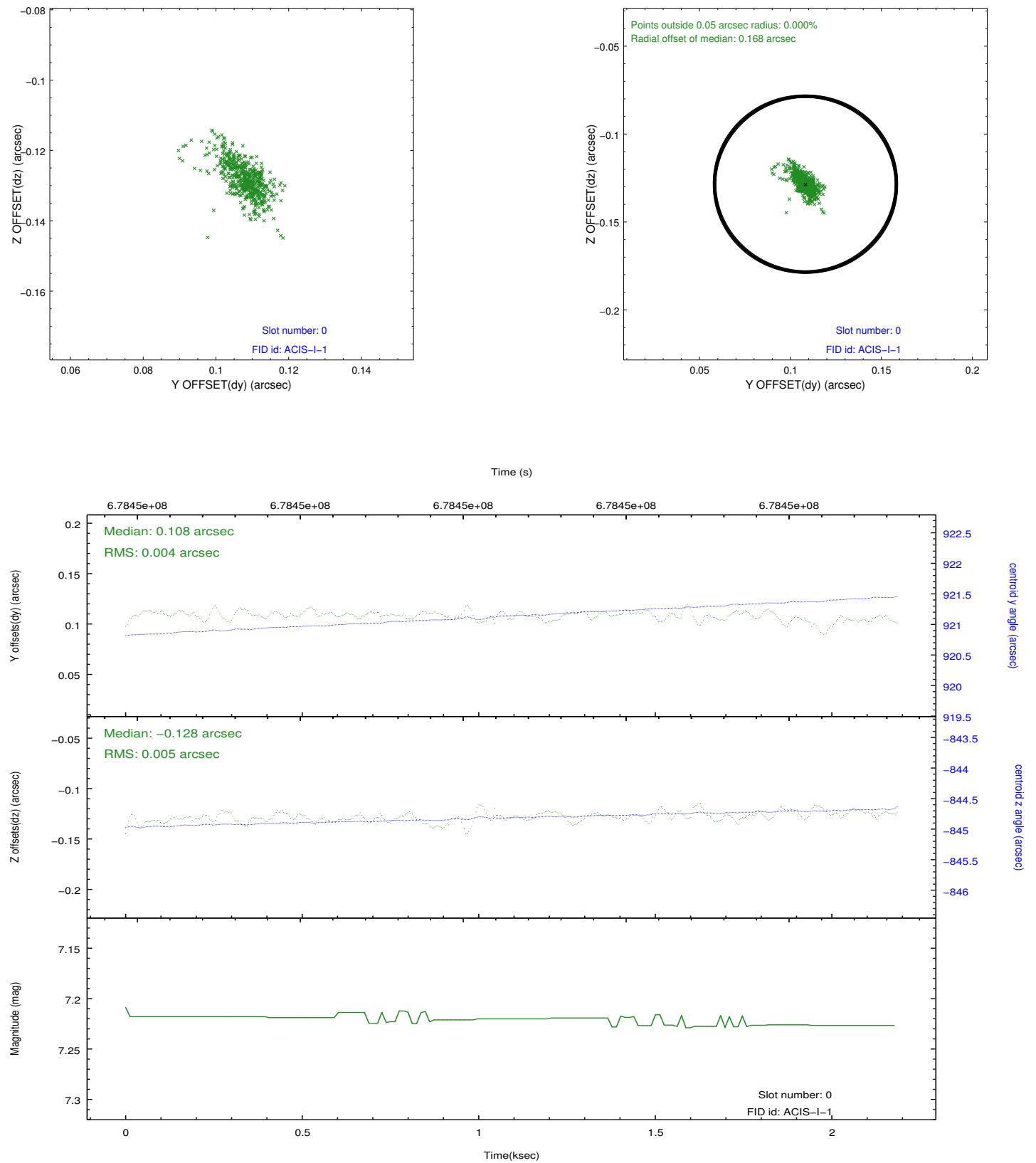


2.4.5 Slot 7

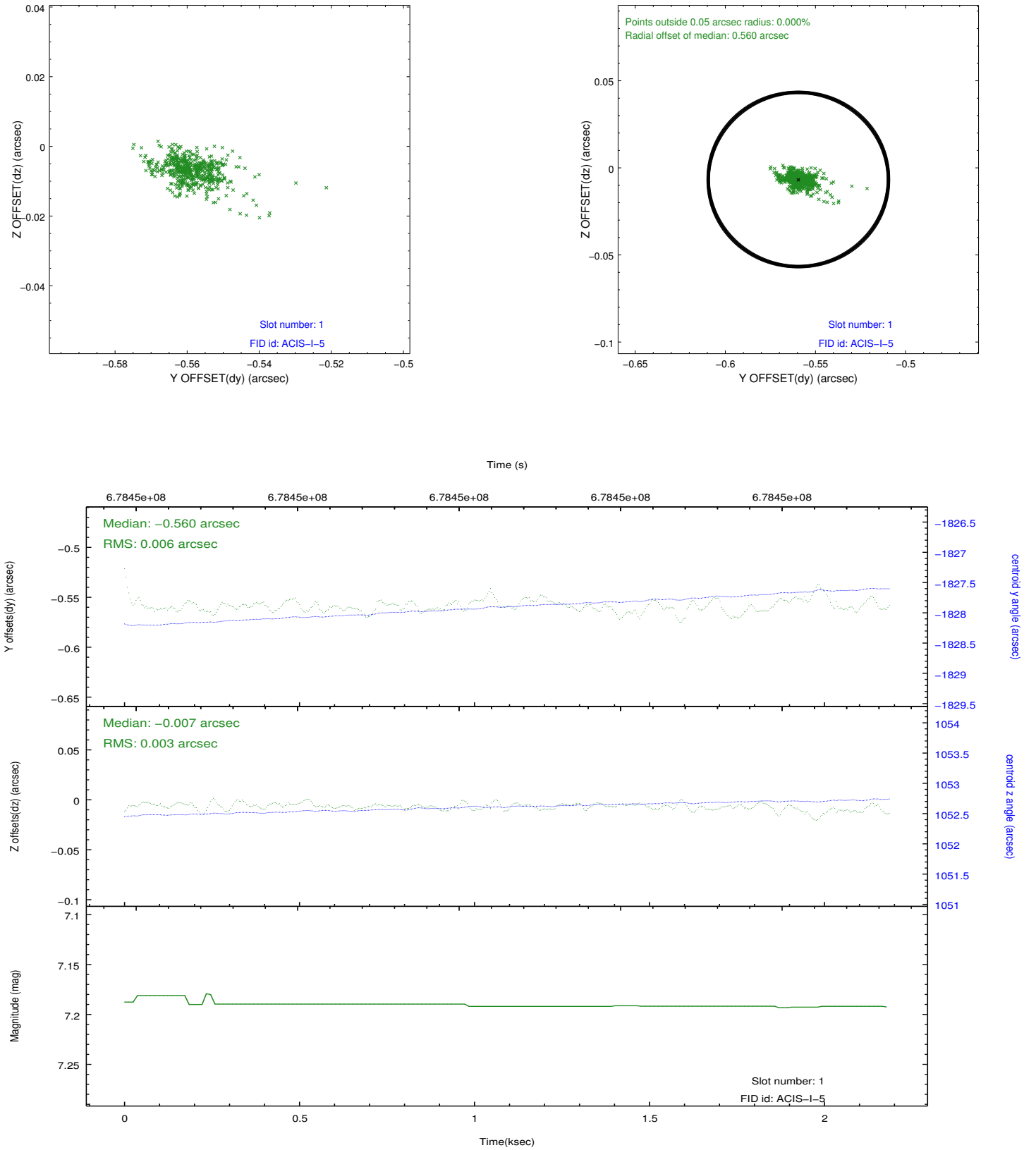


2.5 FID Slots

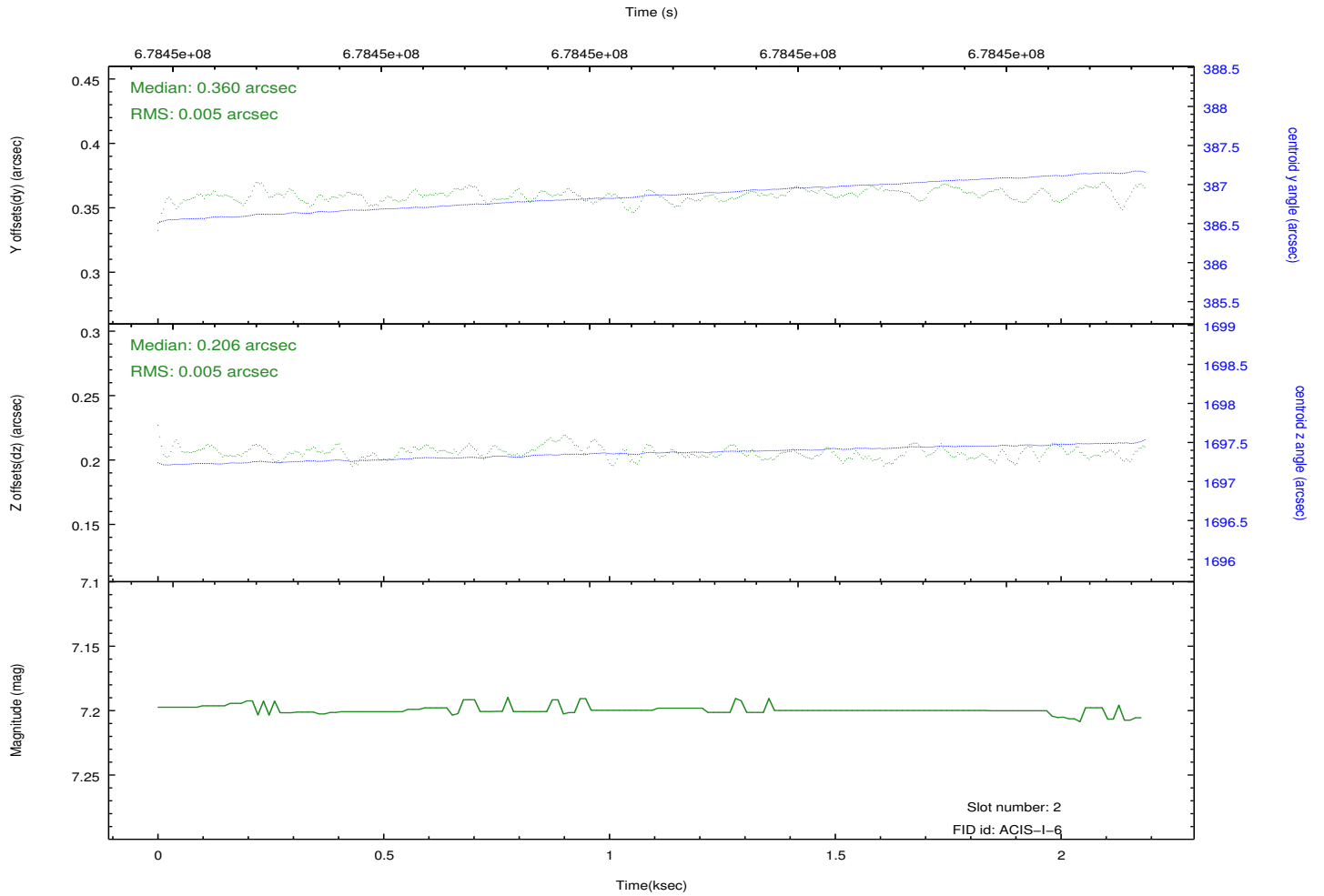
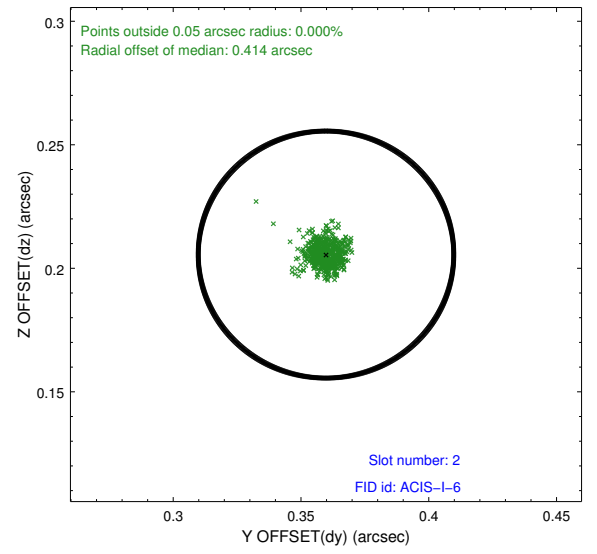
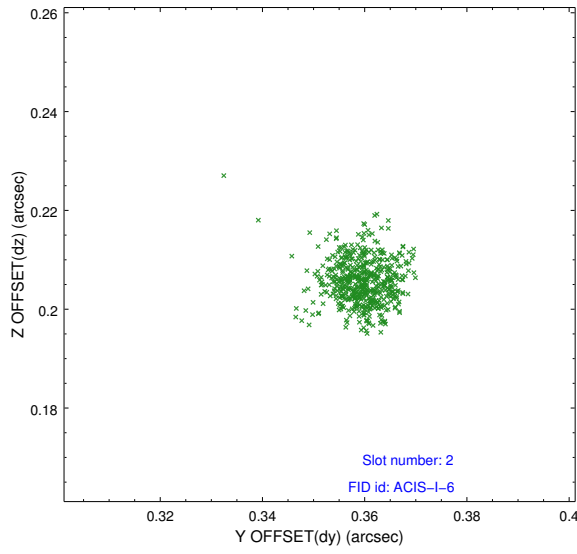
2.5.1 Slot 0



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)	2019.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9086214767694

A.2 Comments