

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21628 - L2 Version 1
Chandra X-Ray Center

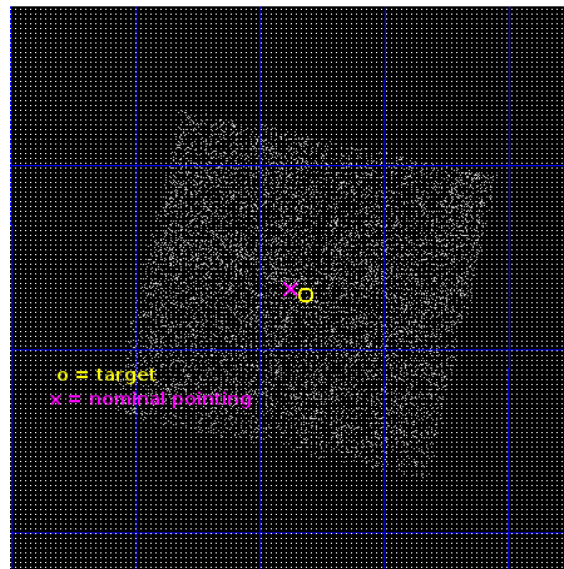
L2 Processing Date : Jul 29 2019

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1 Front

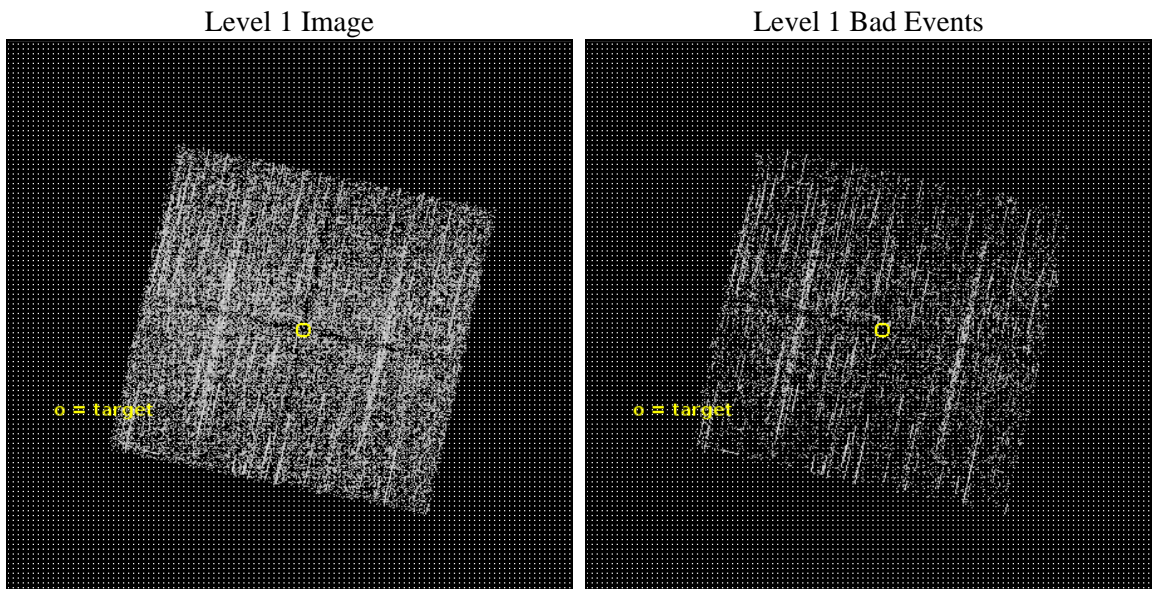
seq_num	300460	Sequence number
obs_id	21628	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.95357	Observer's specified target RA [deg]
dec_targ	-29.784774	Observer's specified target Dec [deg]
ra_nom	267.9679745552	Nominal RA [deg]
dec_nom	-29.77864727699	Nominal Dec [deg]
roll_nom	282.21580519695	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.3468415737	Sum of GTIs [s]
livetime	1883.412885184	Livetime [s]
ontime0	1908.30580163	Sum of GTIs [s]
ontime1	1908.3468415737	Sum of GTIs [s]
ontime2	1908.3878816366	Sum of GTIs [s]
ontime3	1908.4289215803	Sum of GTIs [s]
l2events	6725	Number of level 2 events



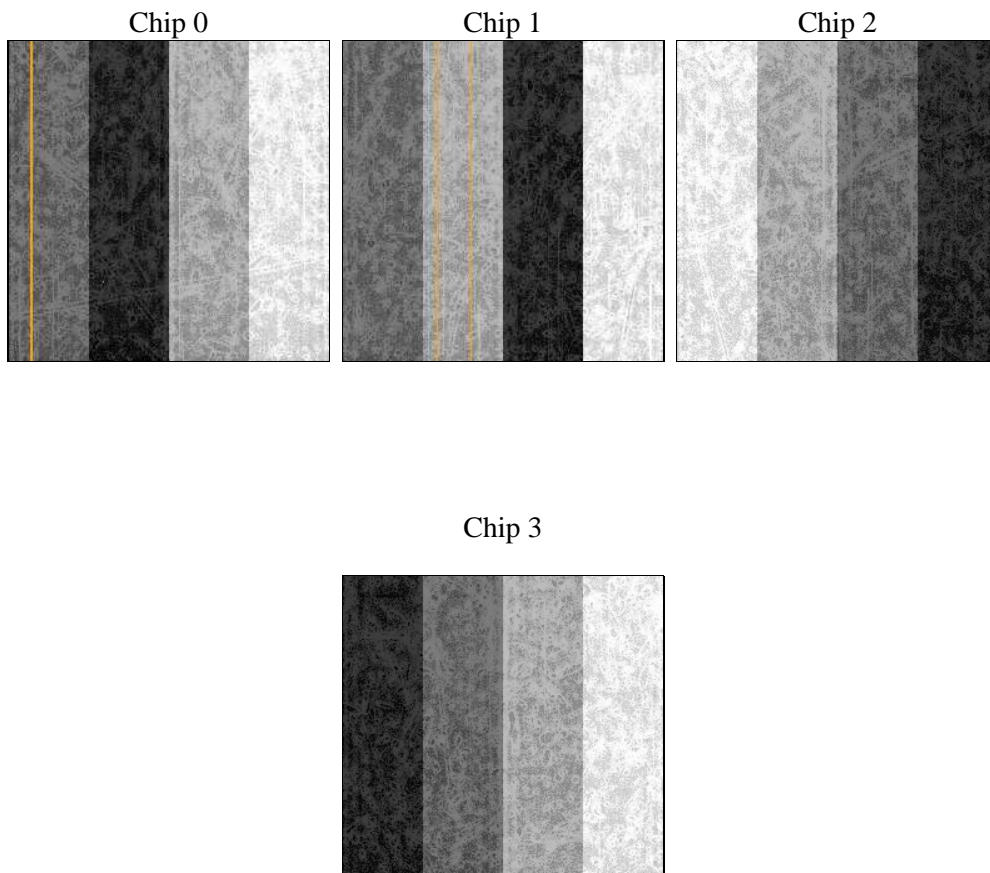
2 OBI

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	1908.3468415737	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.30580163	Sum of GTIs [s]
date	2019-07-29T14:49:38	Date and time of file creation	ontime1	1908.3468415737	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.3878816366	Sum of GTIs [s]
			ontime3	1908.4289215803	Sum of GTIs [s]
			l1events	60786	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13548	14038	15906	17294
rejected events	11643	11783	14034	15279
rejected %	85%	83%	88%	88%

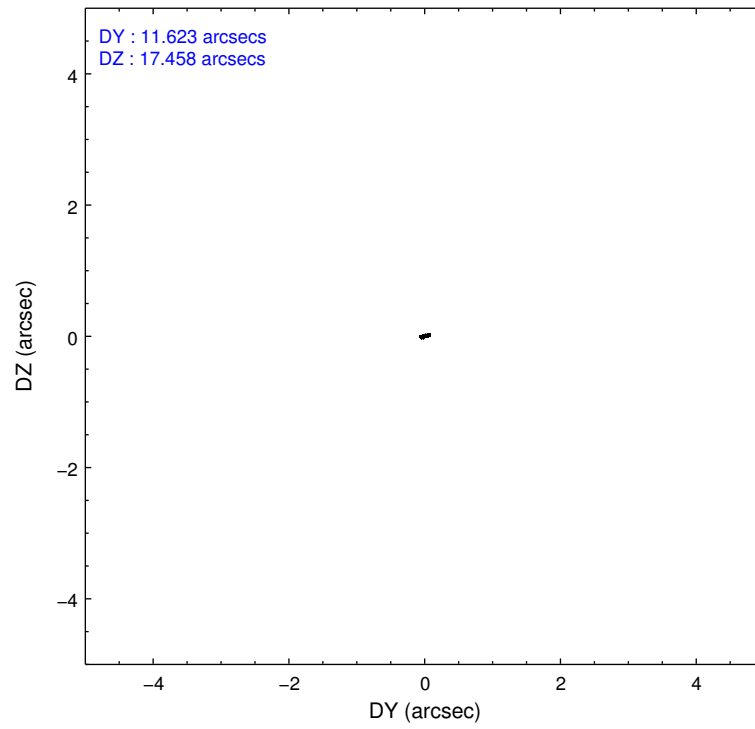
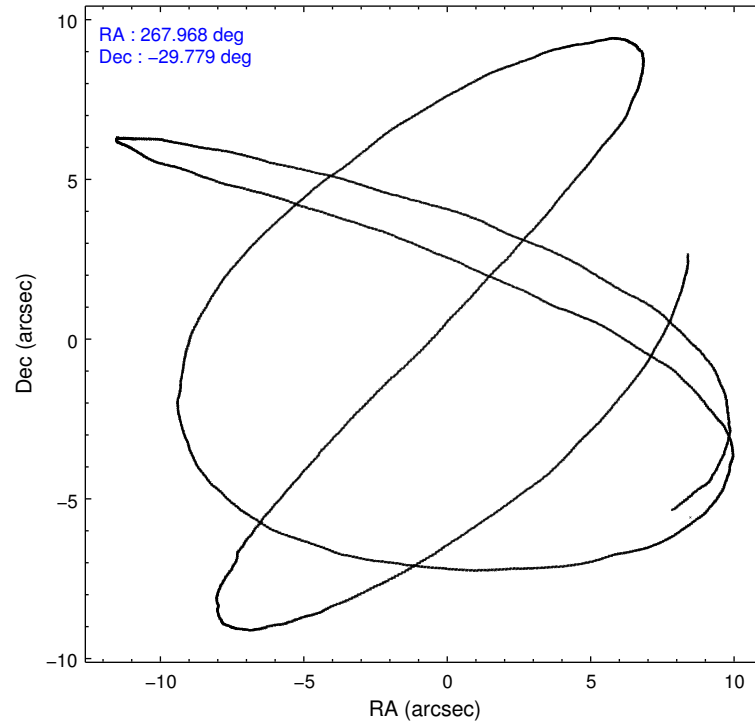
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	721	935	776	908
	5%	6%	4%	5%
grade 1 events	10	9	7	8
	0%	0%	0%	0%
grade 2 events	453	568	398	397
	3%	4%	2%	2%
grade 3 events	176	176	179	172
	1%	1%	1%	0%
grade 4 events	172	165	163	161
	1%	1%	1%	0%
grade 5 events	567	589	551	646
	4%	4%	3%	3%
grade 6 events	386	414	361	384
	2%	2%	2%	2%
grade 7 events	11063	11182	13471	14618
	81%	79%	84%	84%

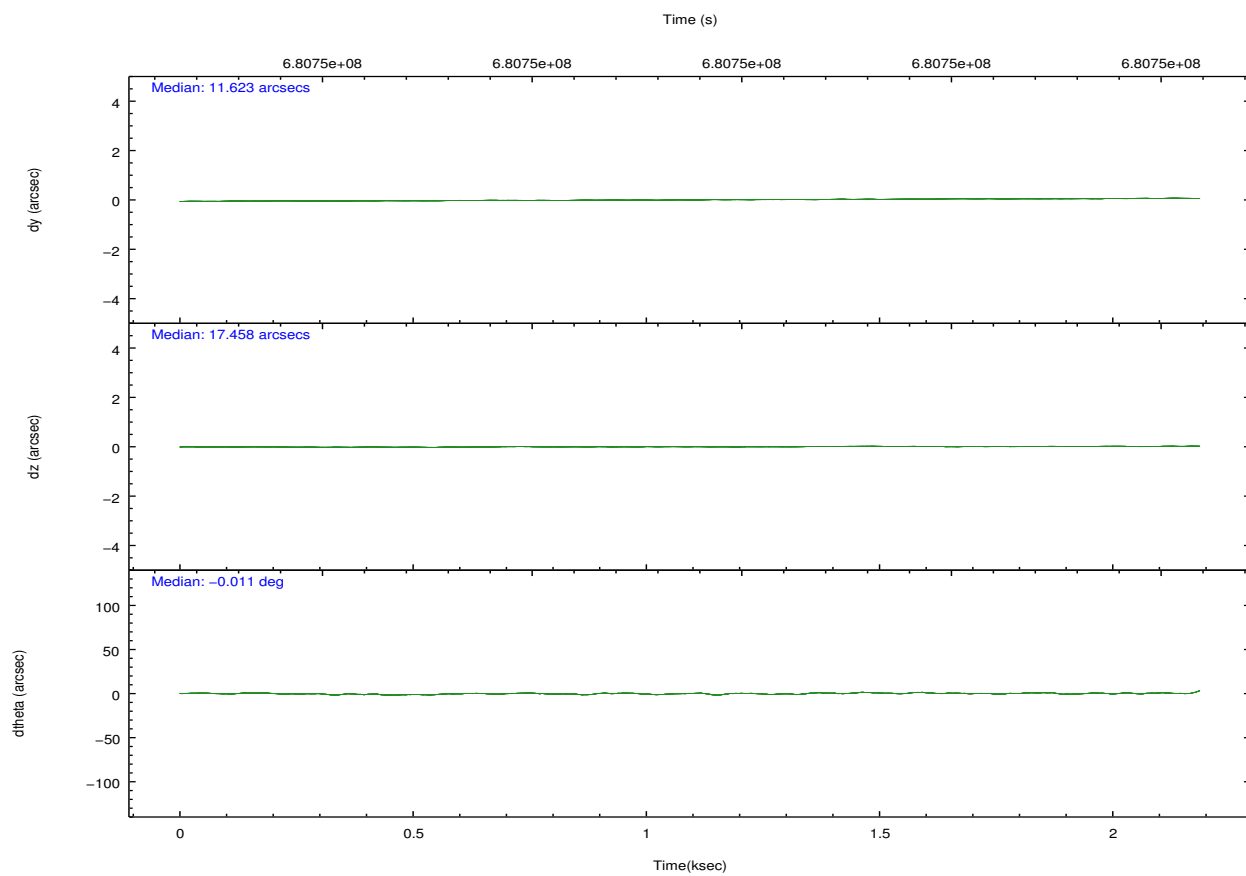
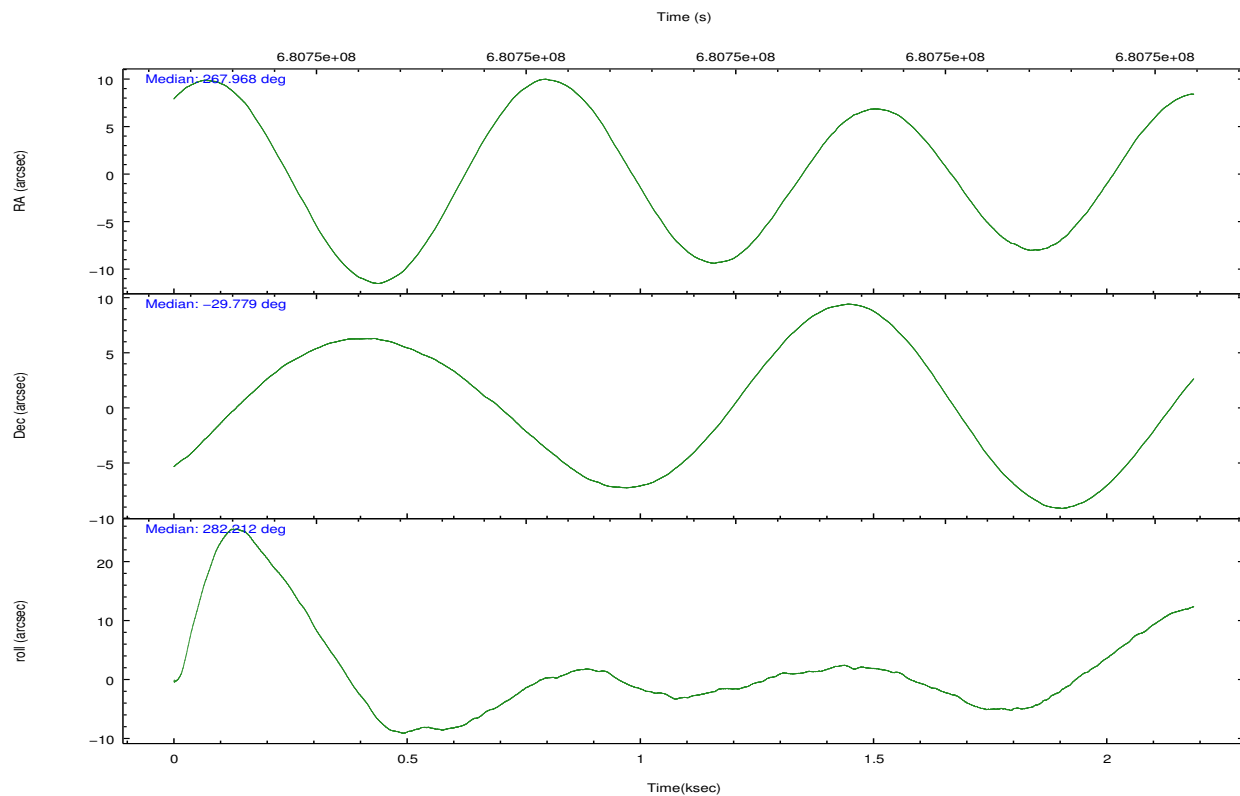
2.2 Compared Parameters

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	267.946390	267.9679745551956
[deg] Pointing Dec	-29.758212	-29.77864727698957
[deg] Pointing Roll	281.996443	282.2158051969481
[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)	680748452.184000	680748075.66846
Observation start date	2019-07-29T00:46:23	2019-07-29T00:41:15
[s] Observation end time (MET)	680750452.184000	680751434.0811599
Observation end date	2019-07-29T01:19:43	2019-07-29T01:37:14
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



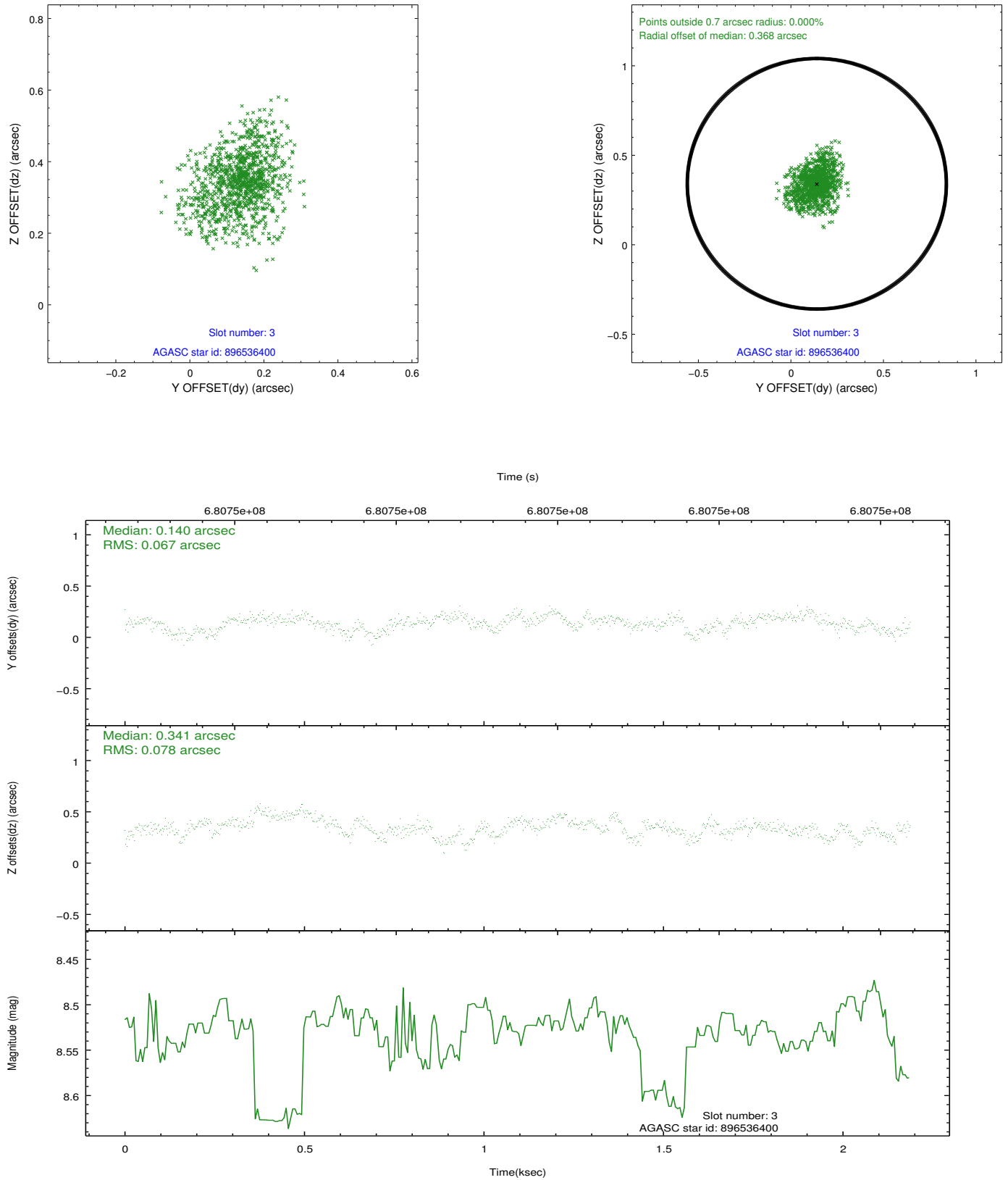


Slot Statistics

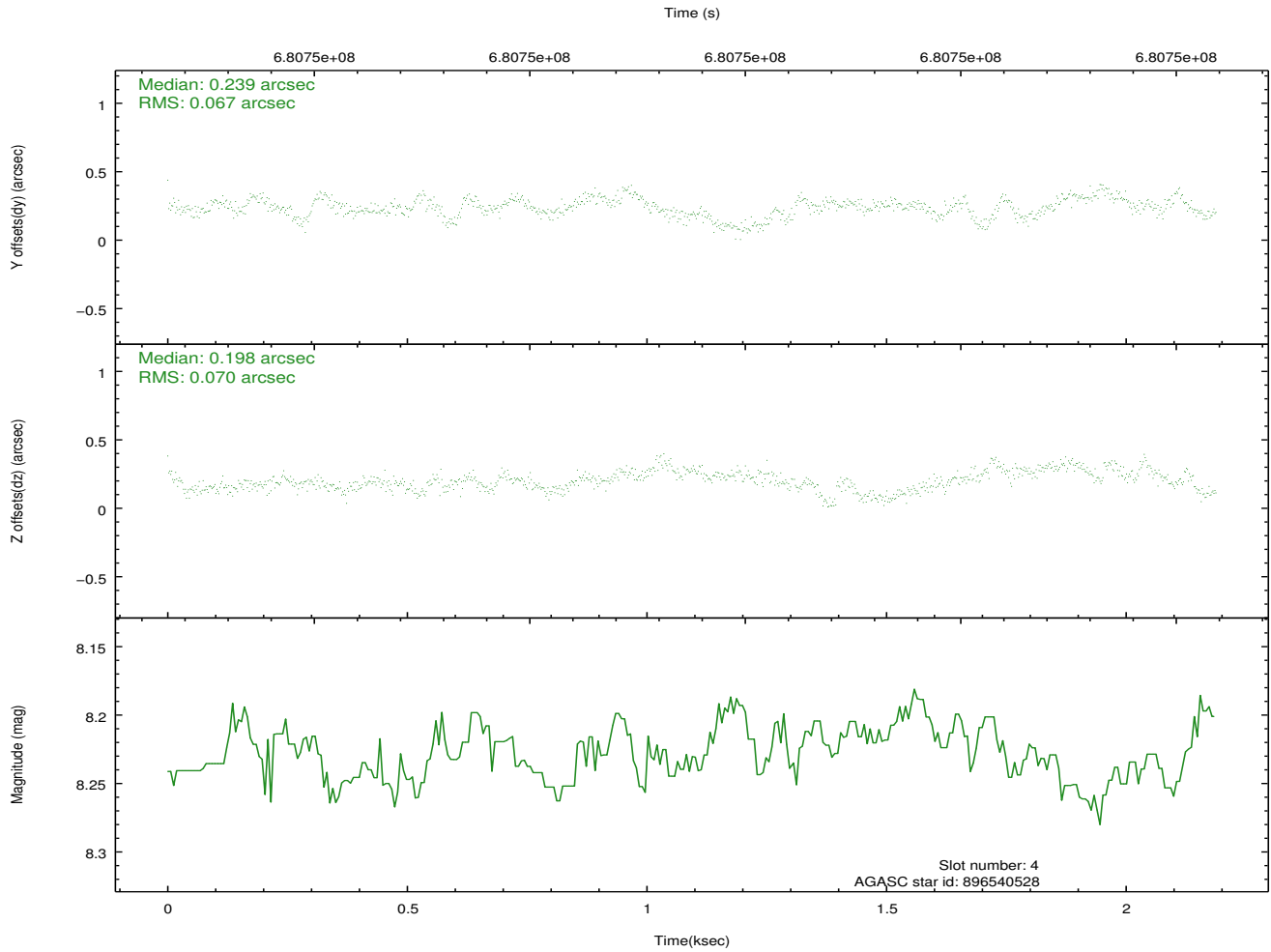
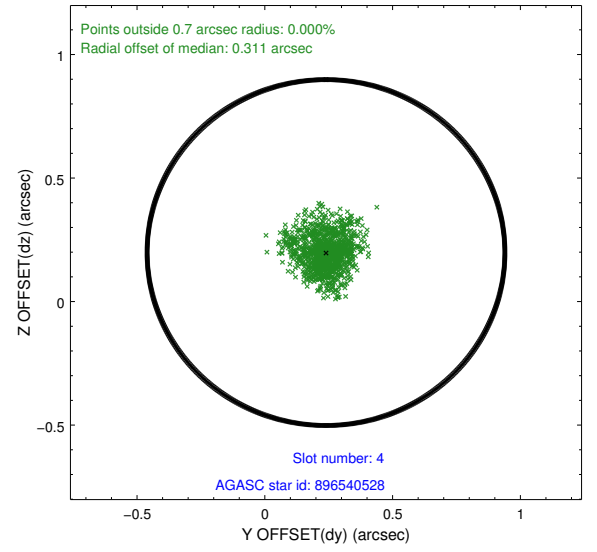
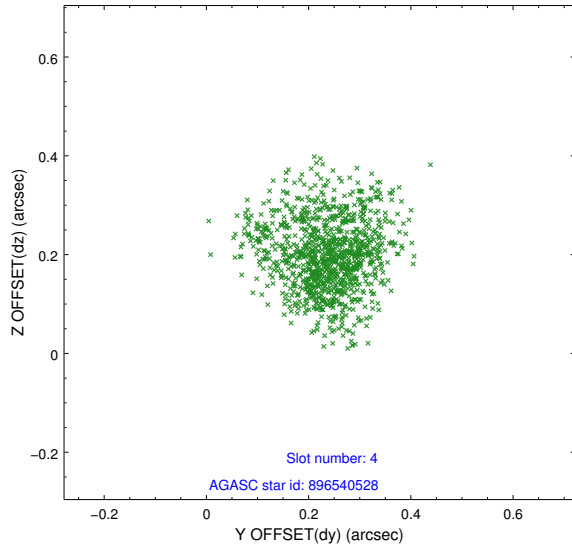
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	534	1.000	0.224	-0.214	0.009	0.014	0.000000	0.000000	928.28	-841
1	FID		ACIS-I-3	7.48	534	1.000	-0.065	0.154	0.010	0.015	0.000000	0.000000	47.16	-975
2	FID		ACIS-I-5	7.25	534	1.000	-0.250	0.133	0.007	0.015	0.000000	0.000000	-1820.59	1054
3	GUIDE	used	896536400	8.53	1067	1.000	0.140	0.341	0.113	0.178	267.359146	-29.438655	-1502.62	-1562
4	GUIDE	used	896540528	8.23	1067	1.000	0.239	0.198	0.104	0.167	267.368305	-29.314773	-1934.95	-1444
5	GUIDE	used	898247688	8.63	1068	1.000	-0.260	0.087	0.119	0.204	268.426687	-29.012154	-2312.08	2035
6	GUIDE	used	898248800	8.19	1067	1.000	-0.071	-0.233	0.106	0.158	267.977609	-29.931731	629.02	-32
7	GUIDE	used	898250872	6.99	1067	1.000	-0.032	-0.382	0.062	0.097	268.026303	-29.632040	-391.72	338

2.4 Star Slots

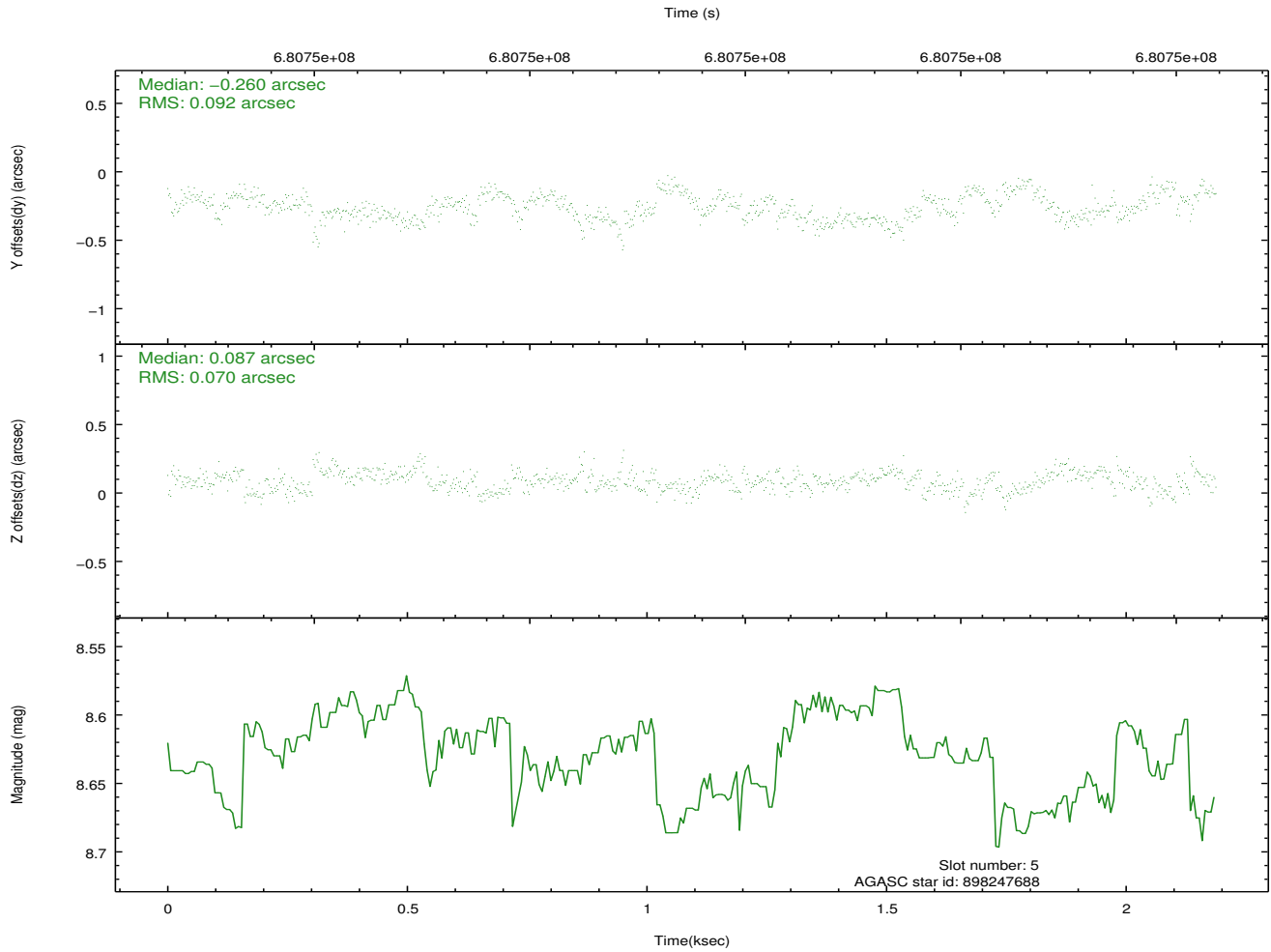
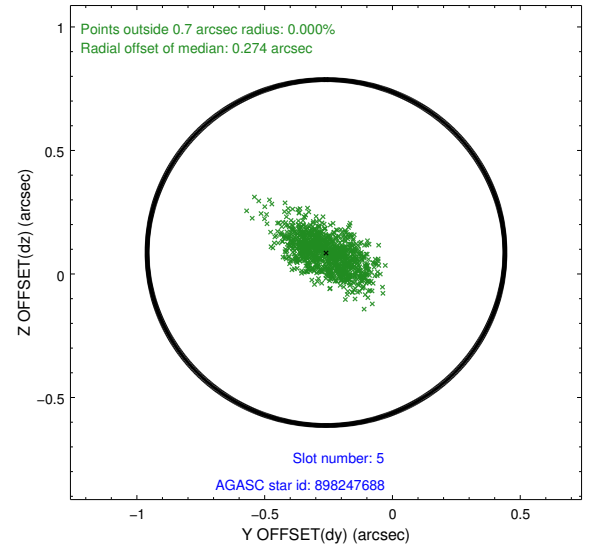
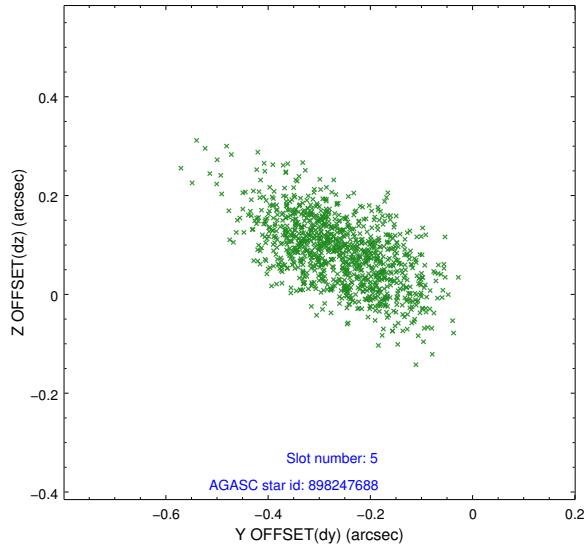
2.4.1 Slot 3



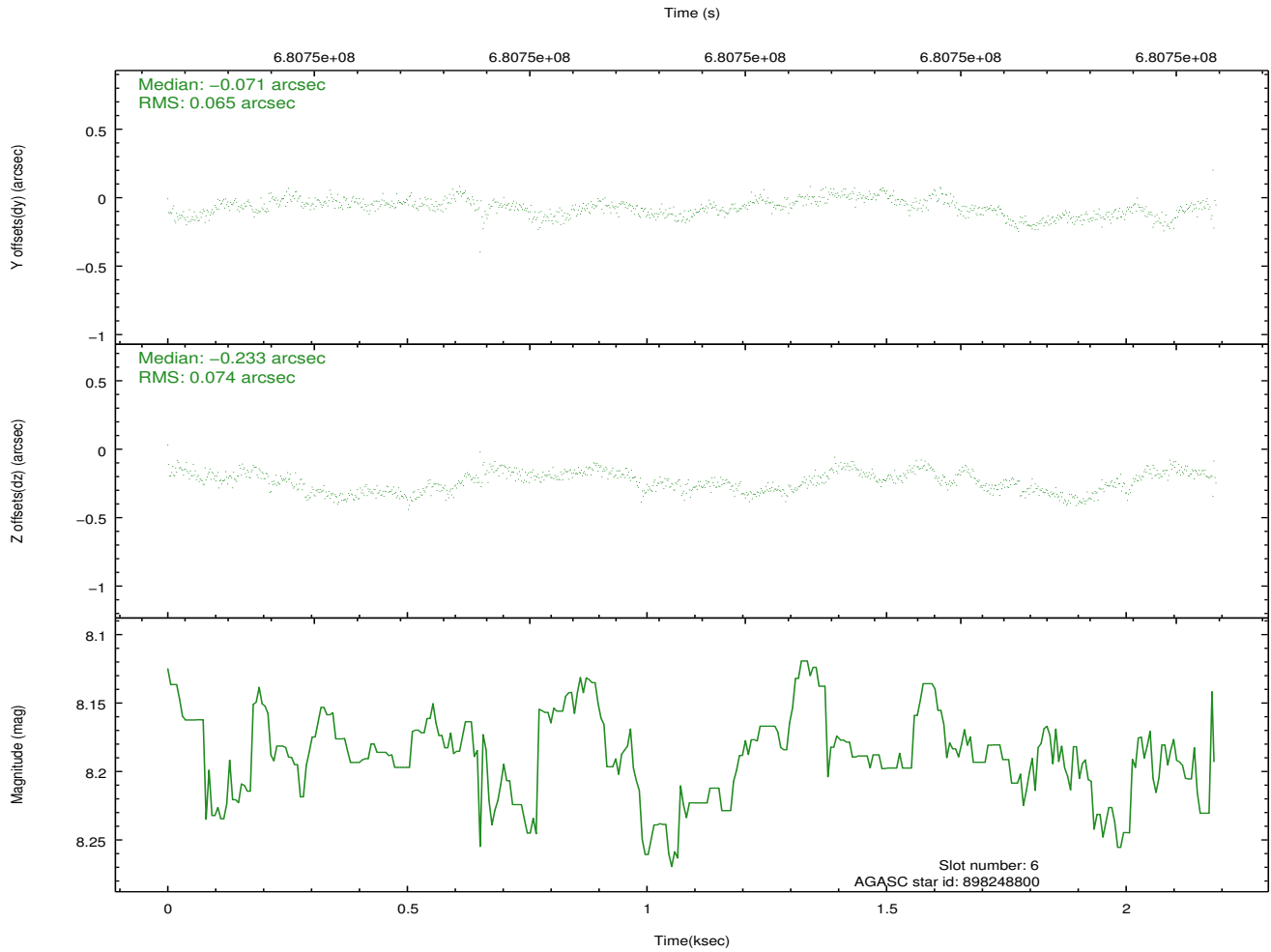
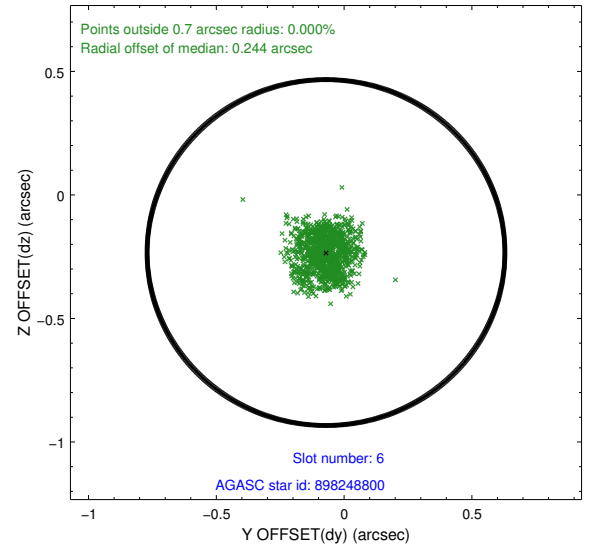
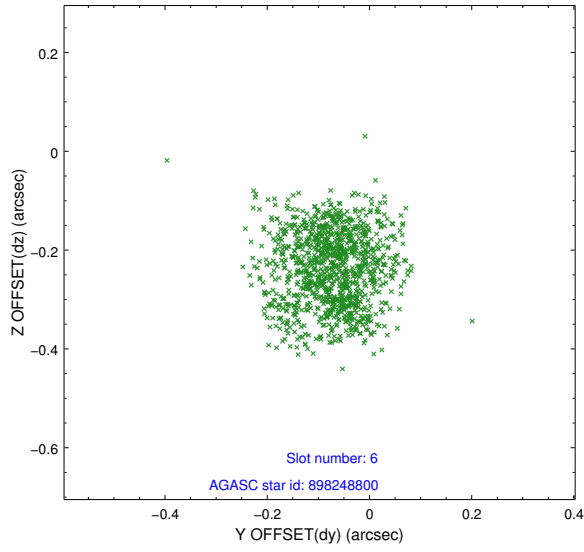
2.4.2 Slot 4



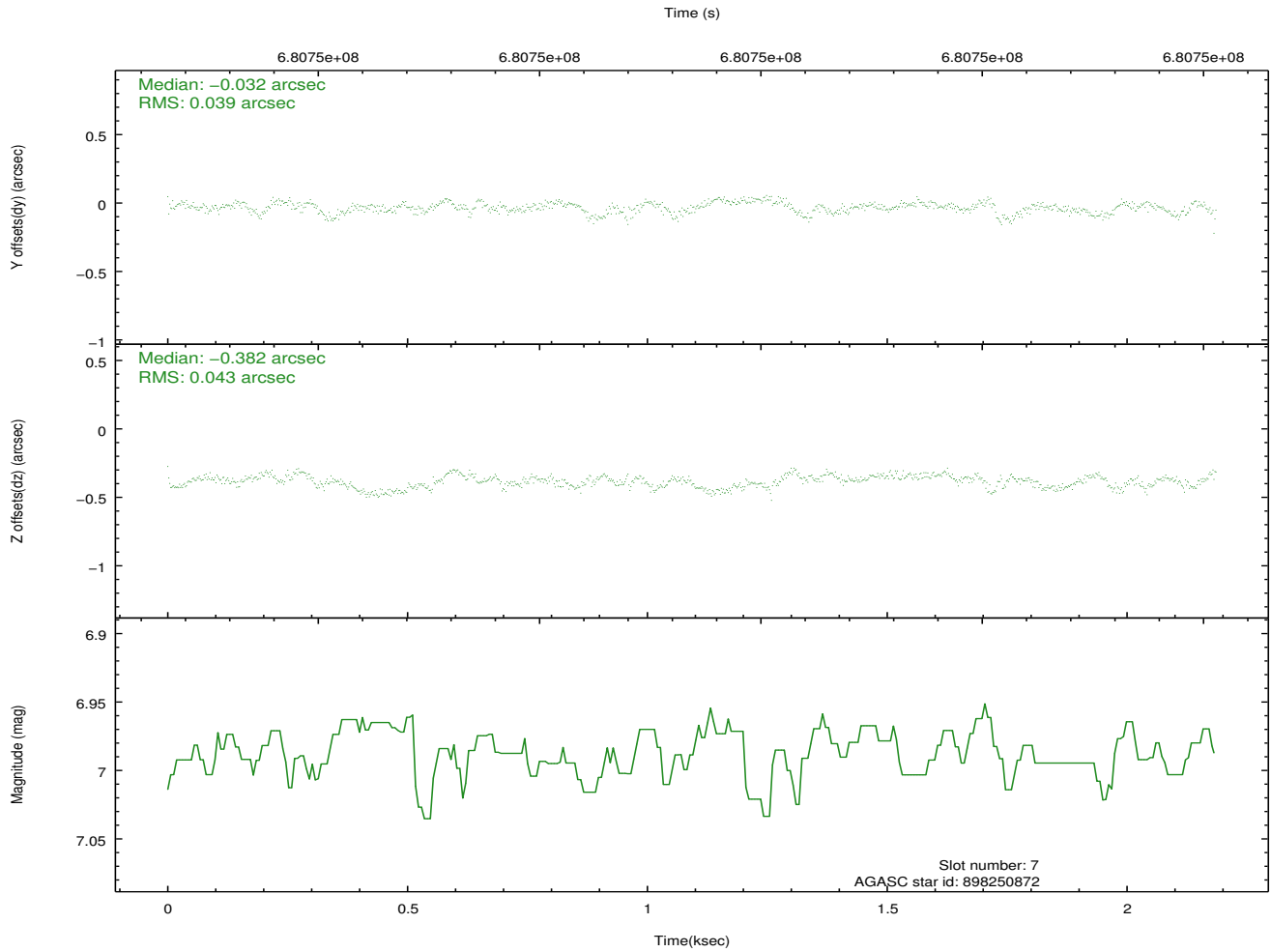
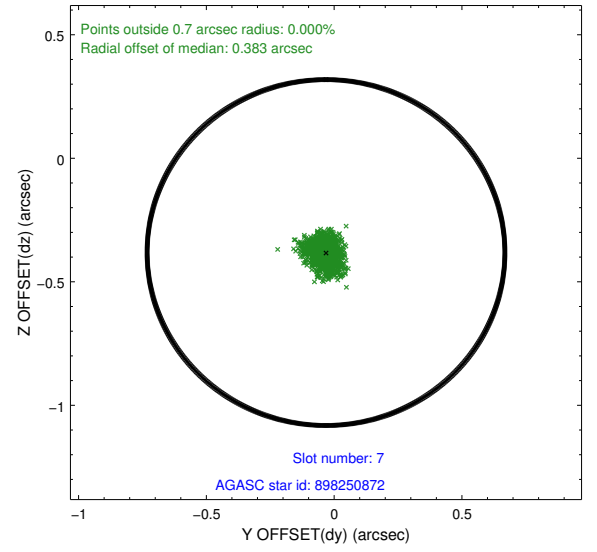
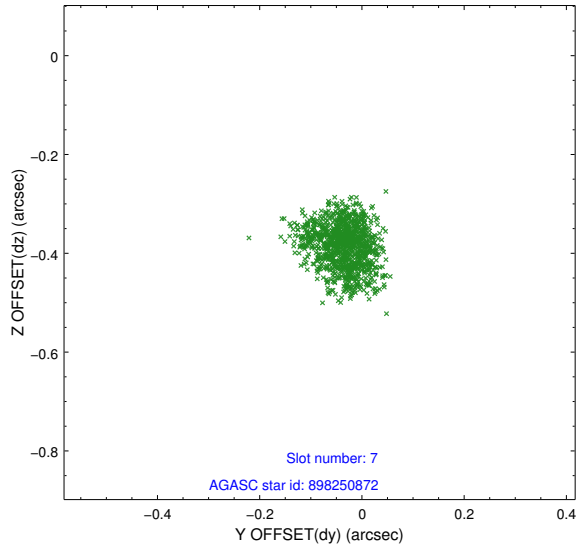
2.4.3 Slot 5



2.4.4 Slot 6

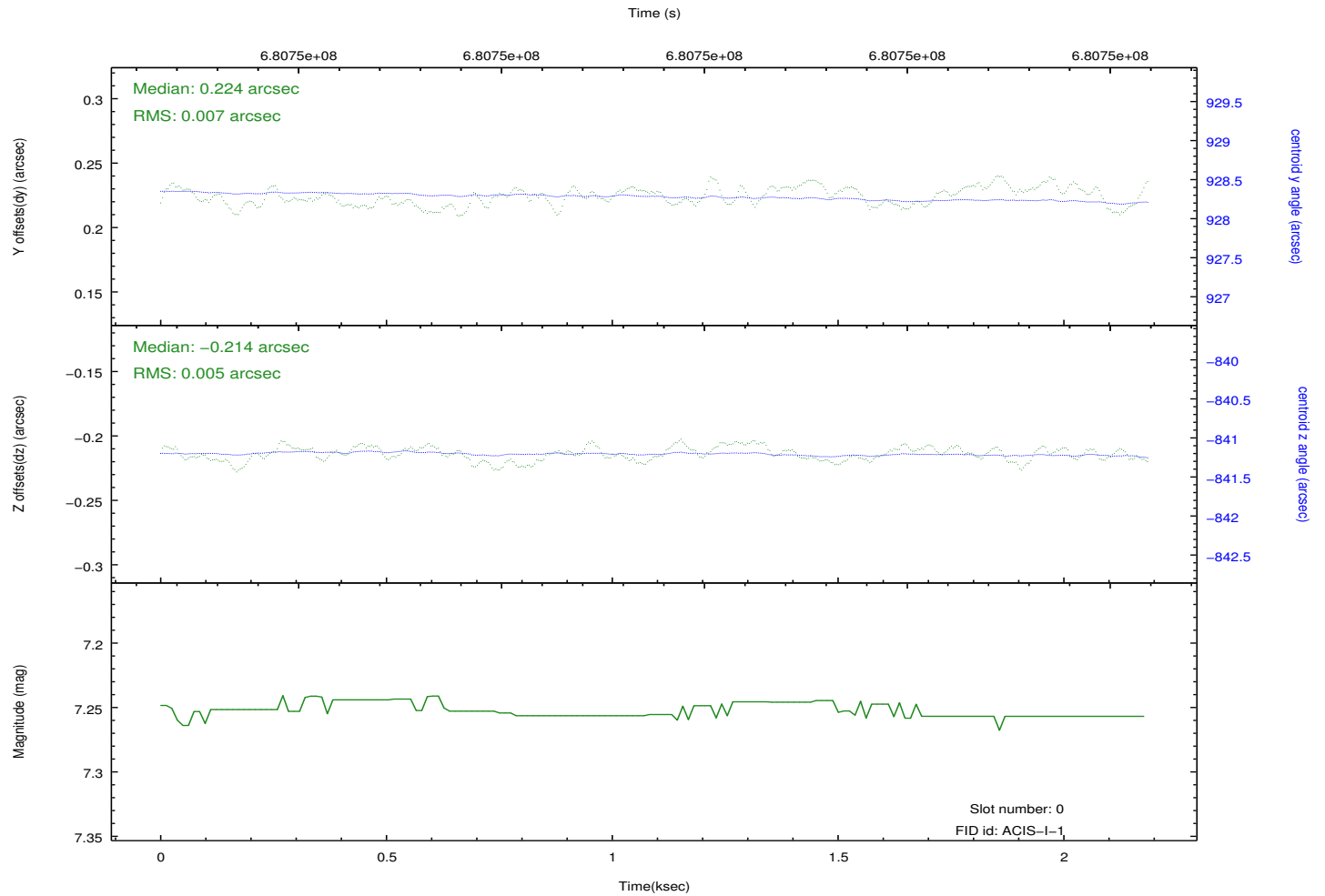
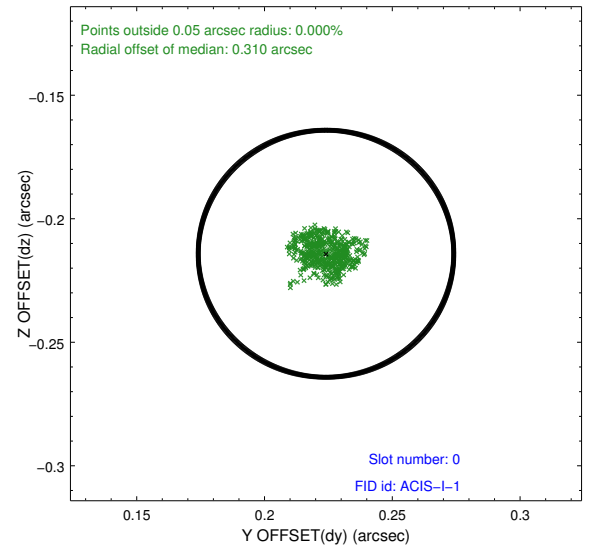
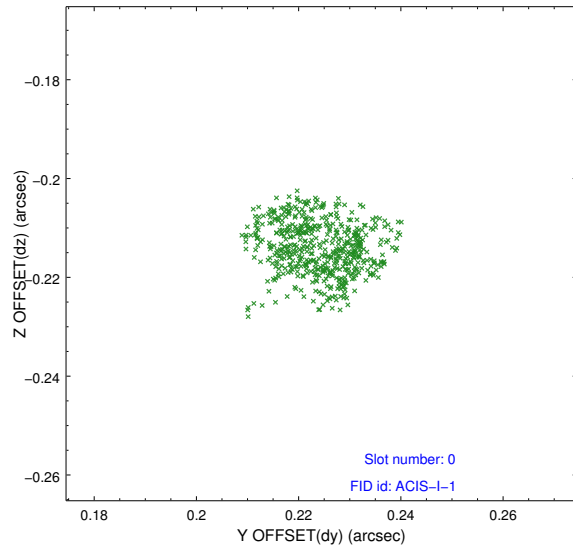


2.4.5 Slot 7

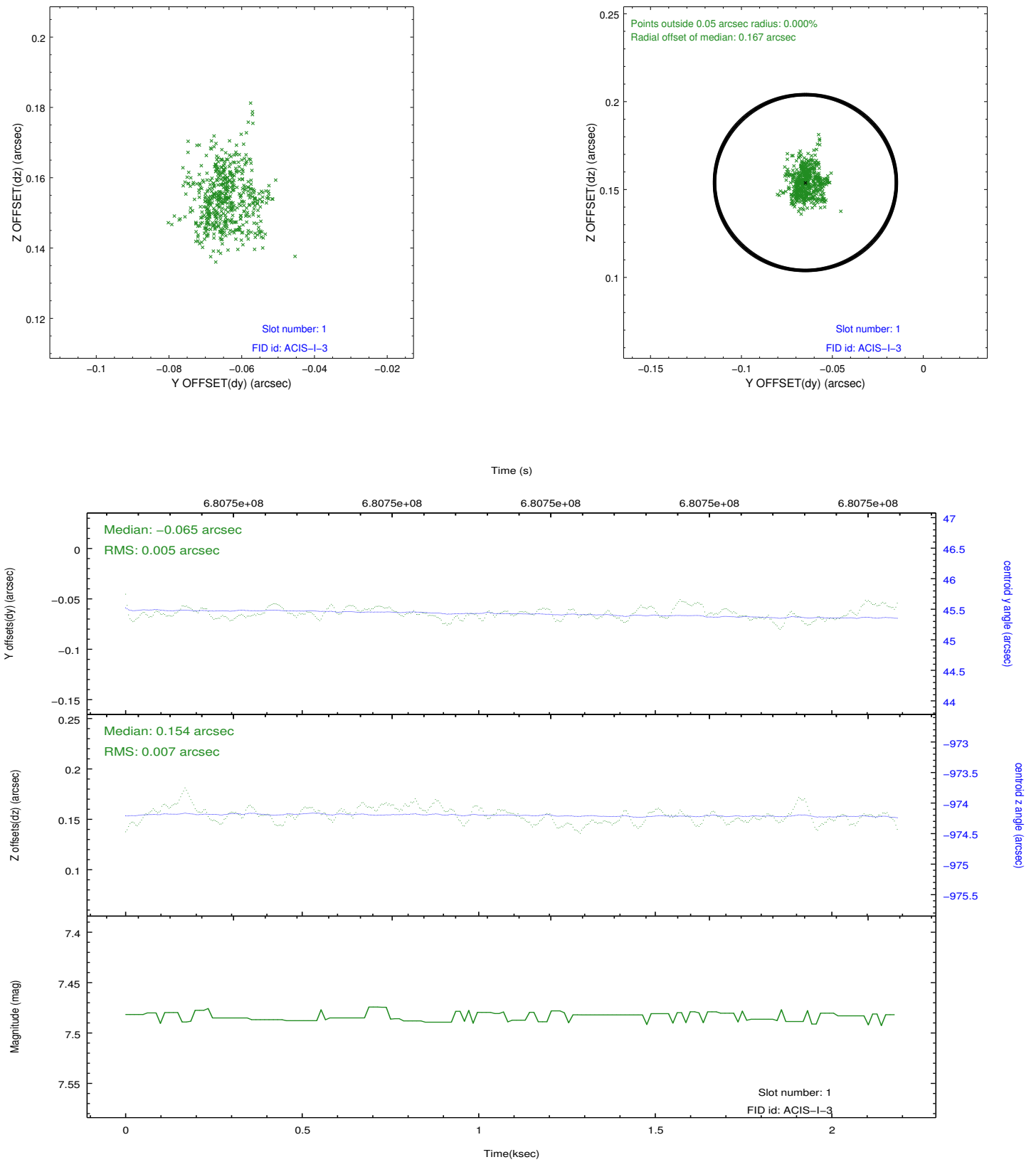


2.5 FID Slots

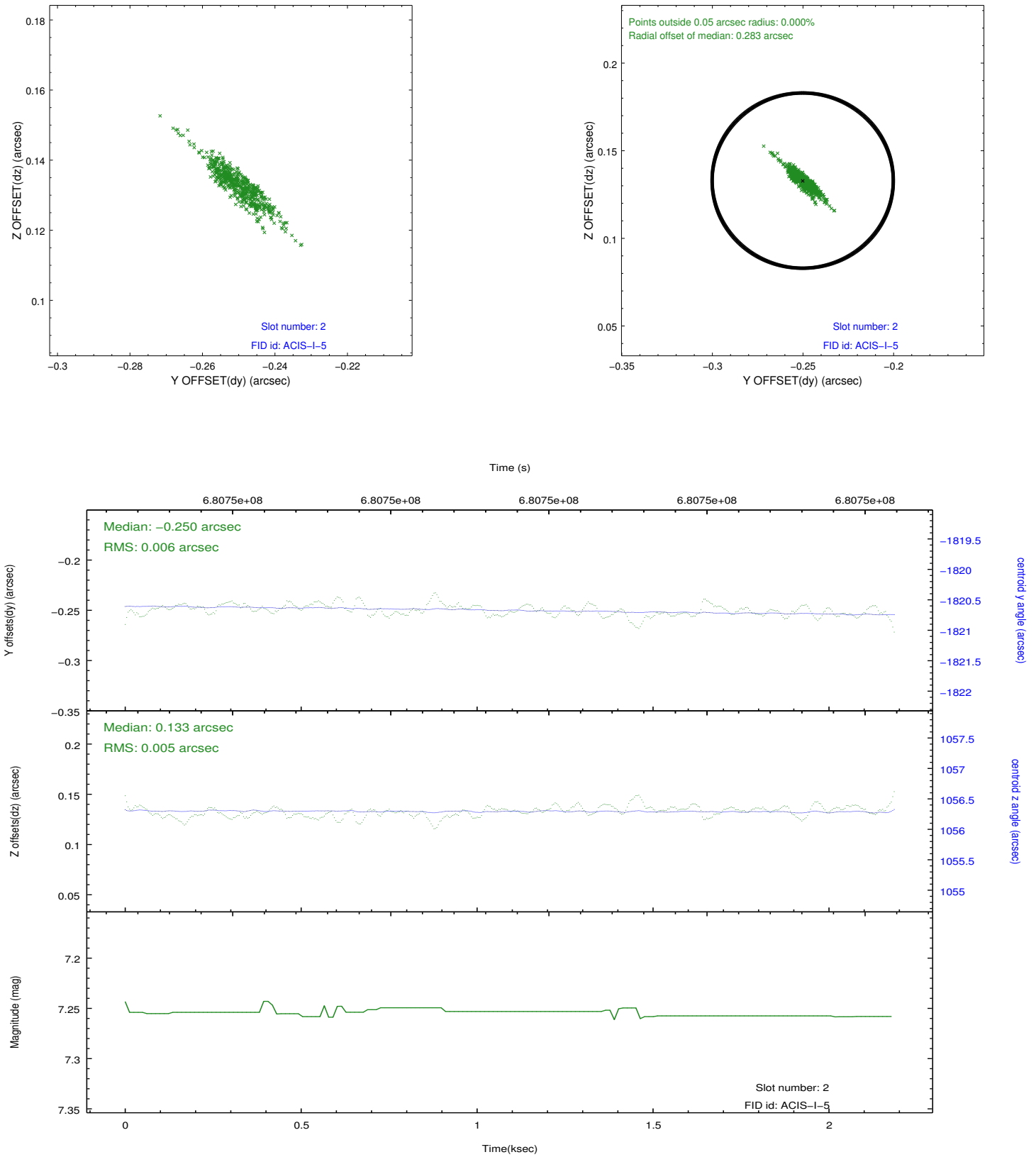
2.5.1 Slot 0



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)	2019.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9083468415737

A.2 Comments