

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18645 - L2 Version 1
Chandra X-Ray Center

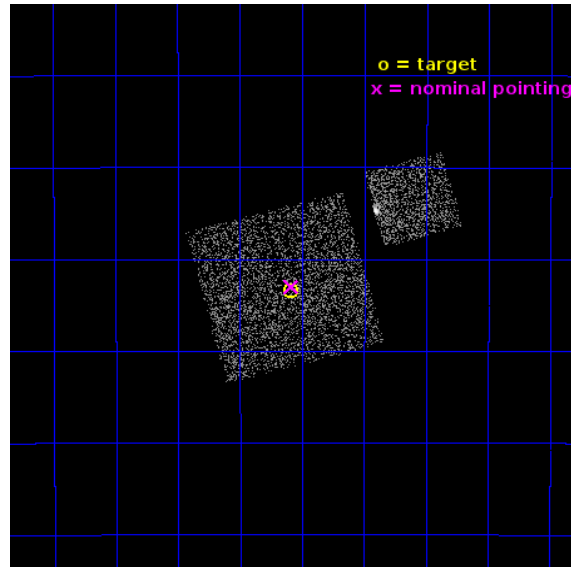
L2 Processing Date : May 22 2016

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1 Front

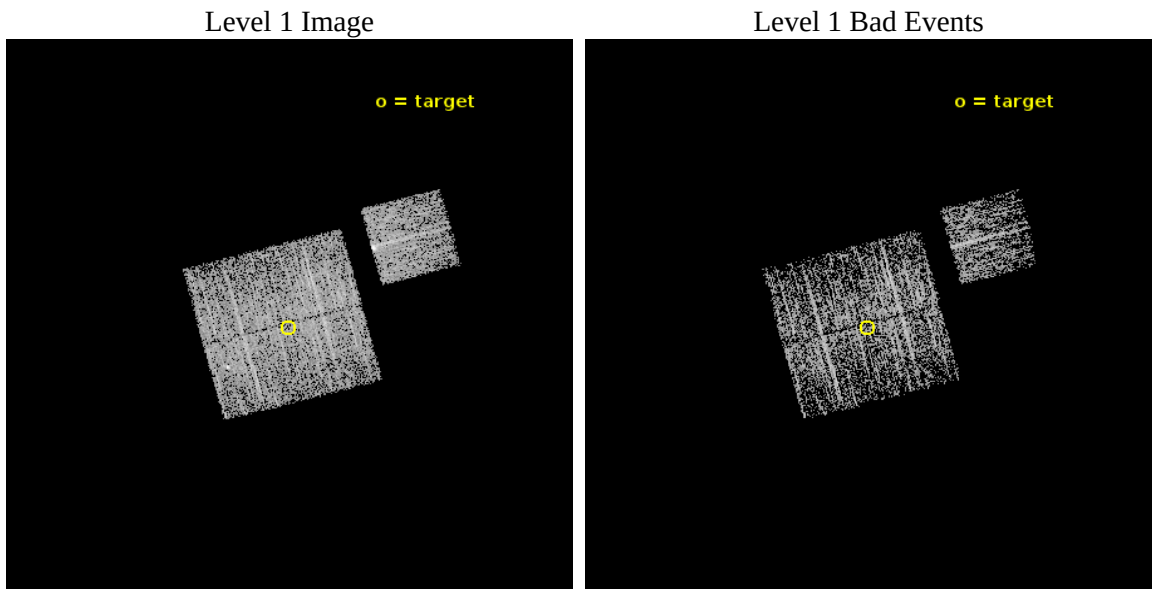
seq_num	300369	Sequence number
obs_id	18645	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.14733	Observer's specified target RA [deg]
dec_targ	-29.89098	Observer's specified target Dec [deg]
ra_nom	266.14639638274	Nominal RA [deg]
dec_nom	-29.883557609587	Nominal Dec [deg]
roll_nom	75.237386290128	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.6810096502	Sum of GTIs [s]
livetime	1930.1285975077	Livetime [s]
ontime0	1955.5578997135	Sum of GTIs [s]
ontime1	1955.5989396572	Sum of GTIs [s]
ontime2	1955.6399797201	Sum of GTIs [s]
ontime3	1955.6810096502	Sum of GTIs [s]
ontime6	1955.516849637	Sum of GTIs [s]
l2events	7818	Number of level 2 events



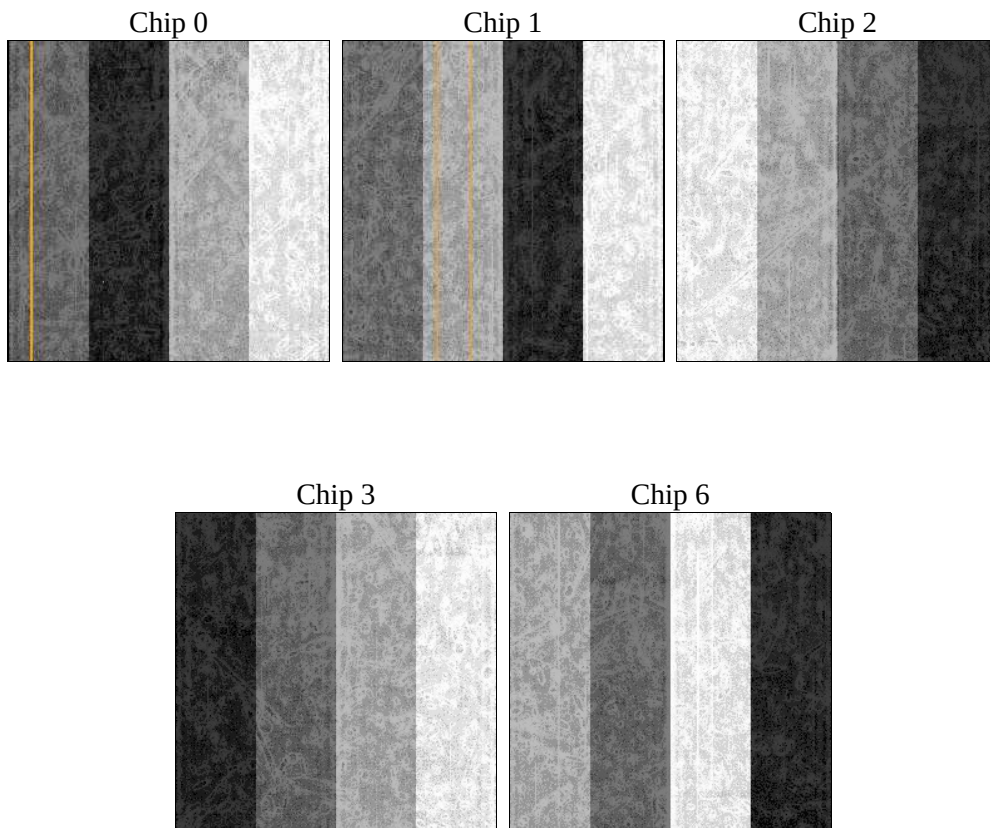
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	1955.6810096502	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.5578997135	Sum of GTIs [s]
date	2016-05-22T07:36:28	Date and time of file creation	ontime1	1955.5989396572	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.6399797201	Sum of GTIs [s]
			ontime3	1955.6810096502	Sum of GTIs [s]
			ontime6	1955.516849637	Sum of GTIs [s]
			l1events	61491	Number of level 1 events

2.1.4 Events

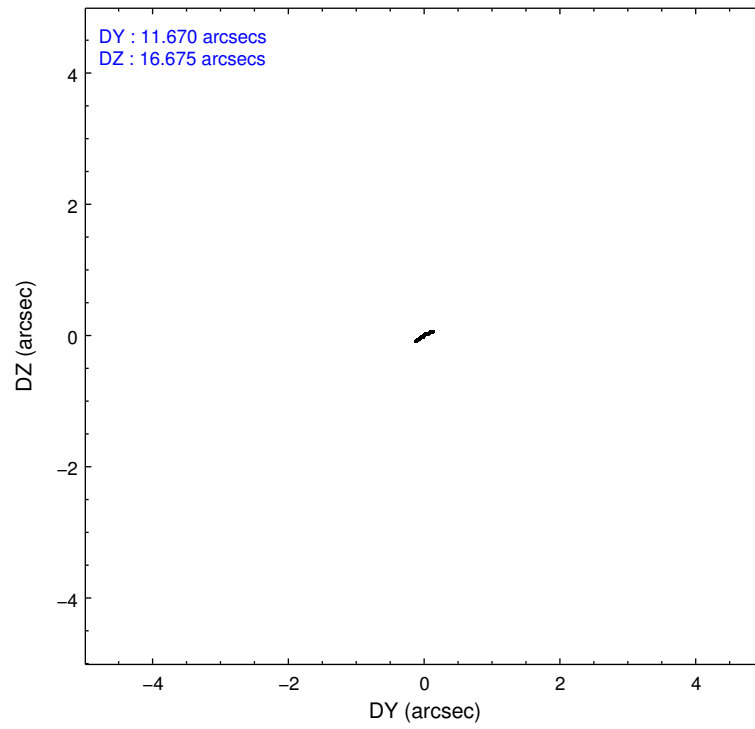
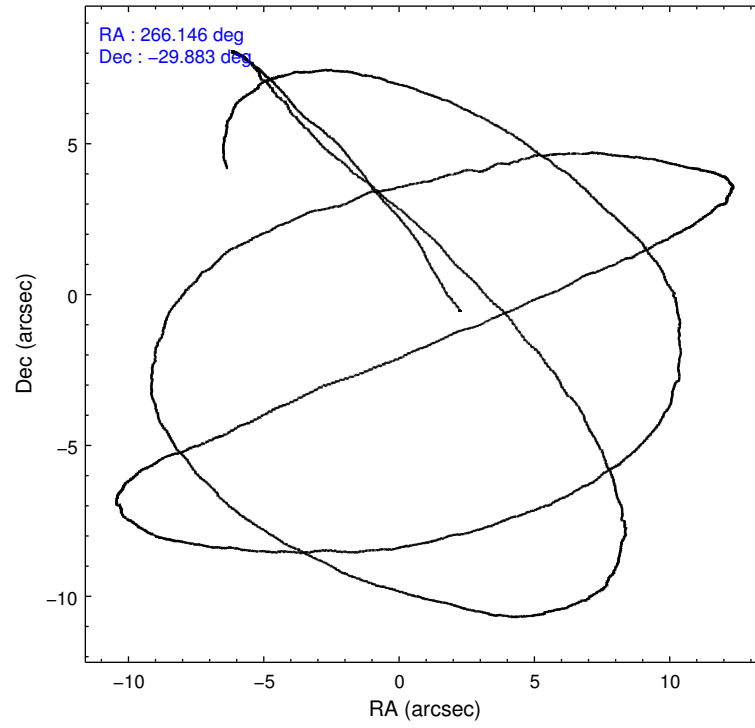
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11389	12330	13536	11510	12726
rejected events	9775	10348	11929	9954	10255
rejected %	85%	83%	88%	86%	80%

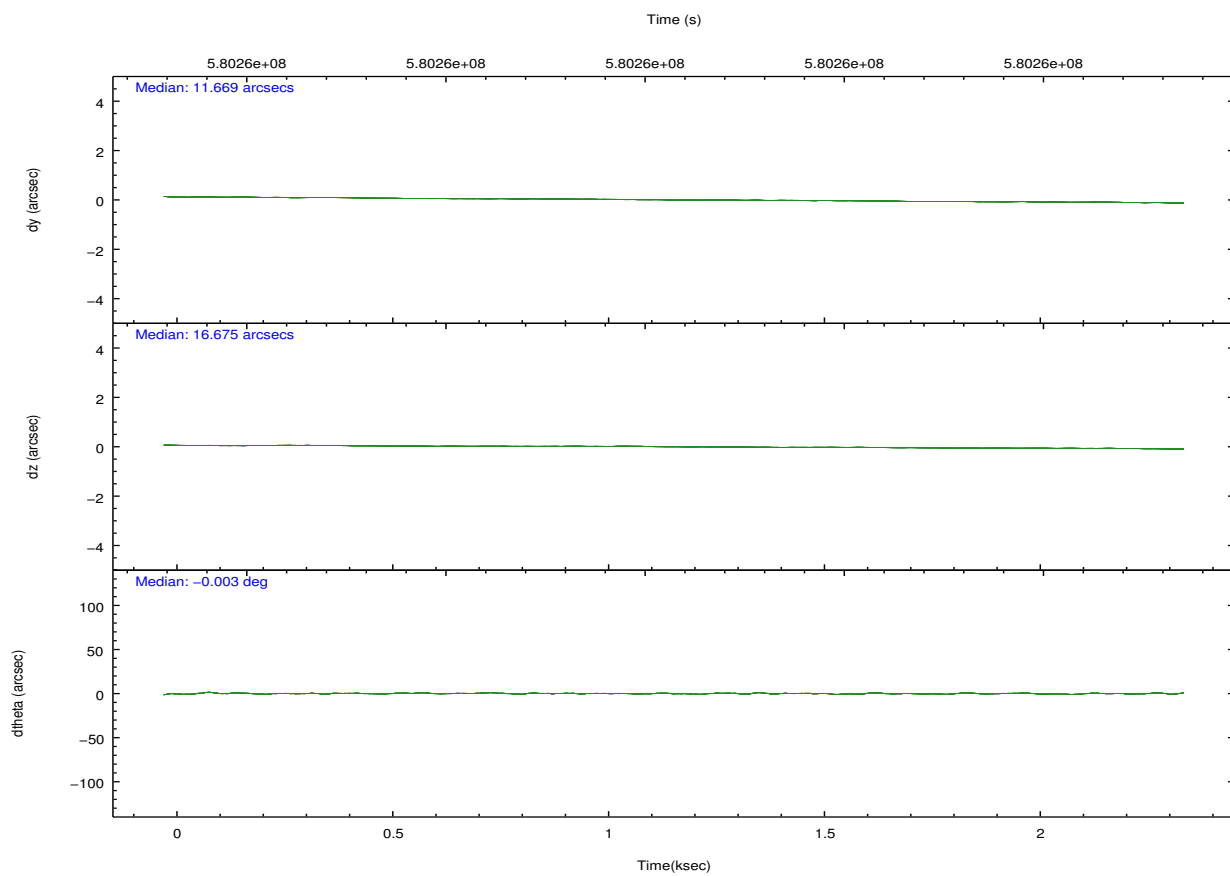
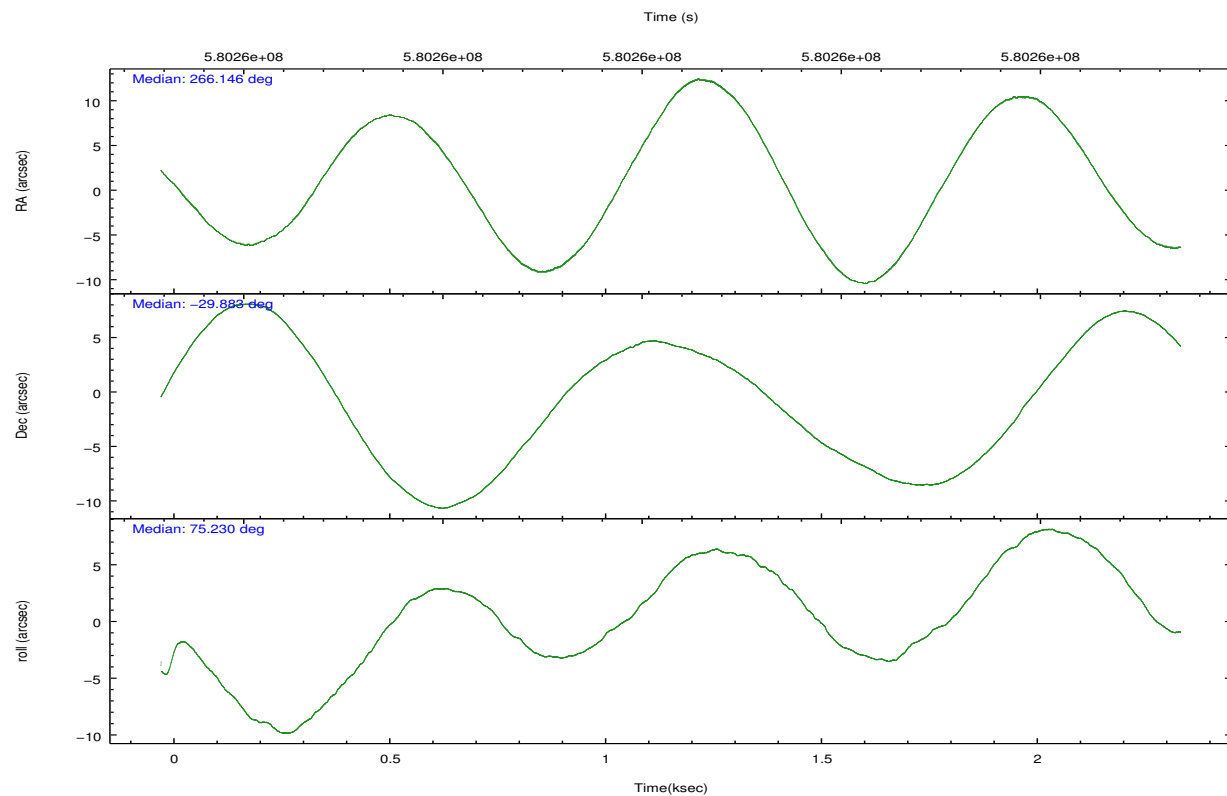
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	659	941	676	646	1116
	5%	7%	4%	5%	8%
grade 1 events	10	6	6	9	10
	0%	0%	0%	0%	0%
grade 2 events	401	380	365	309	641
	3%	3%	2%	2%	5%
grade 3 events	146	145	131	130	167
	1%	1%	0%	1%	1%
grade 4 events	122	136	156	153	161
	1%	1%	1%	1%	1%
grade 5 events	523	538	485	594	560
	4%	4%	3%	5%	4%
grade 6 events	288	380	281	320	391
	2%	3%	2%	2%	3%
grade 7 events	9240	9804	11436	9349	9680
	81%	79%	84%	81%	76%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	266.154993	266.1463963827362	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.910475	-29.88355760958691	CCD I3 on	Y	Y
[deg] Pointing Roll	75.032972	75.23738629012823	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	580258073.184000	580257696.98701	CCD S5 on	N	N
Observation start date	2016-05-21T22:46:45	2016-05-21T22:41:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580260253.184000	580260387.09966	On-chip summing requested	N	N
Observation end date	2016-05-21T23:23:05	2016-05-21T23:26:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



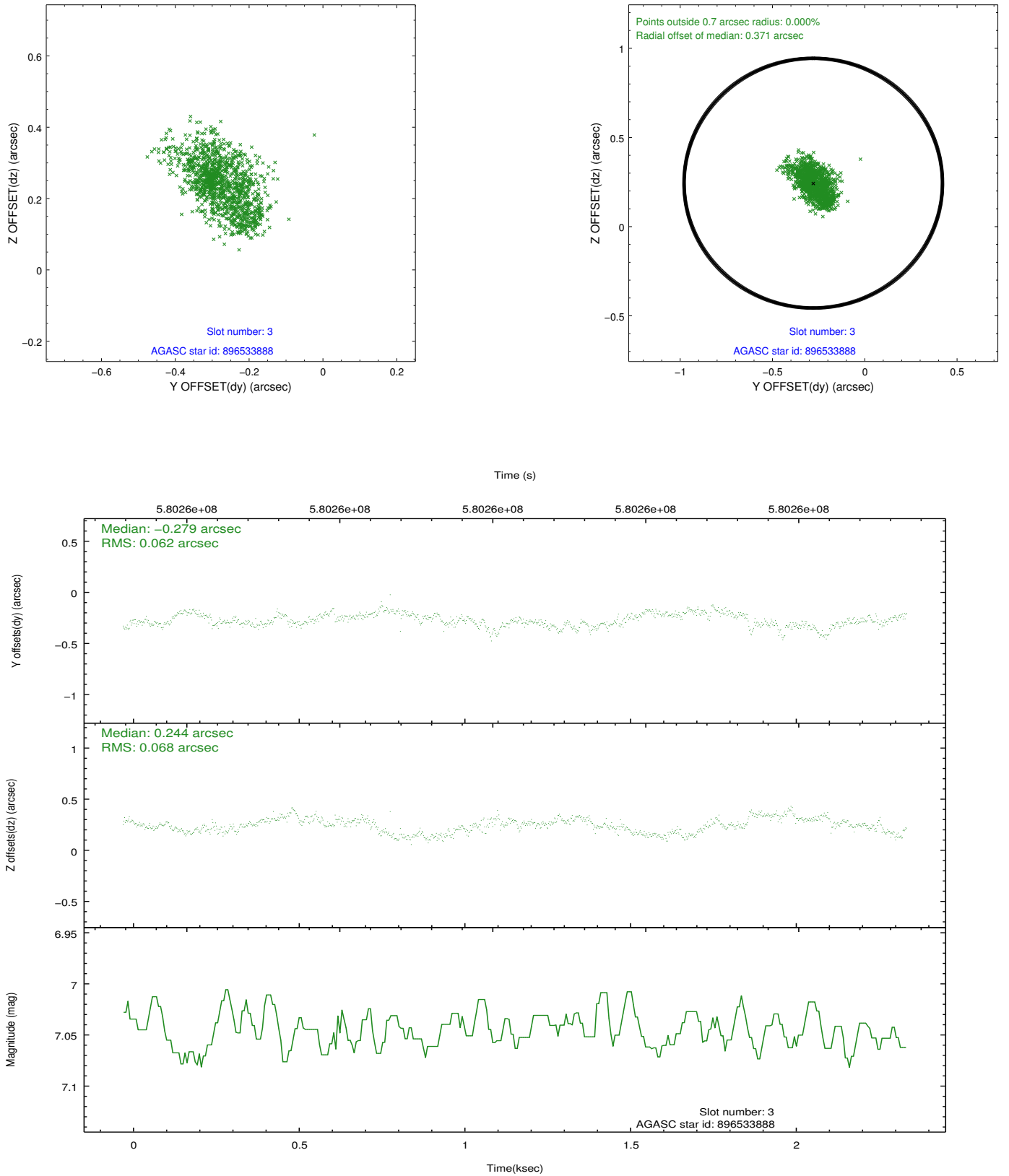


Slot Statistics

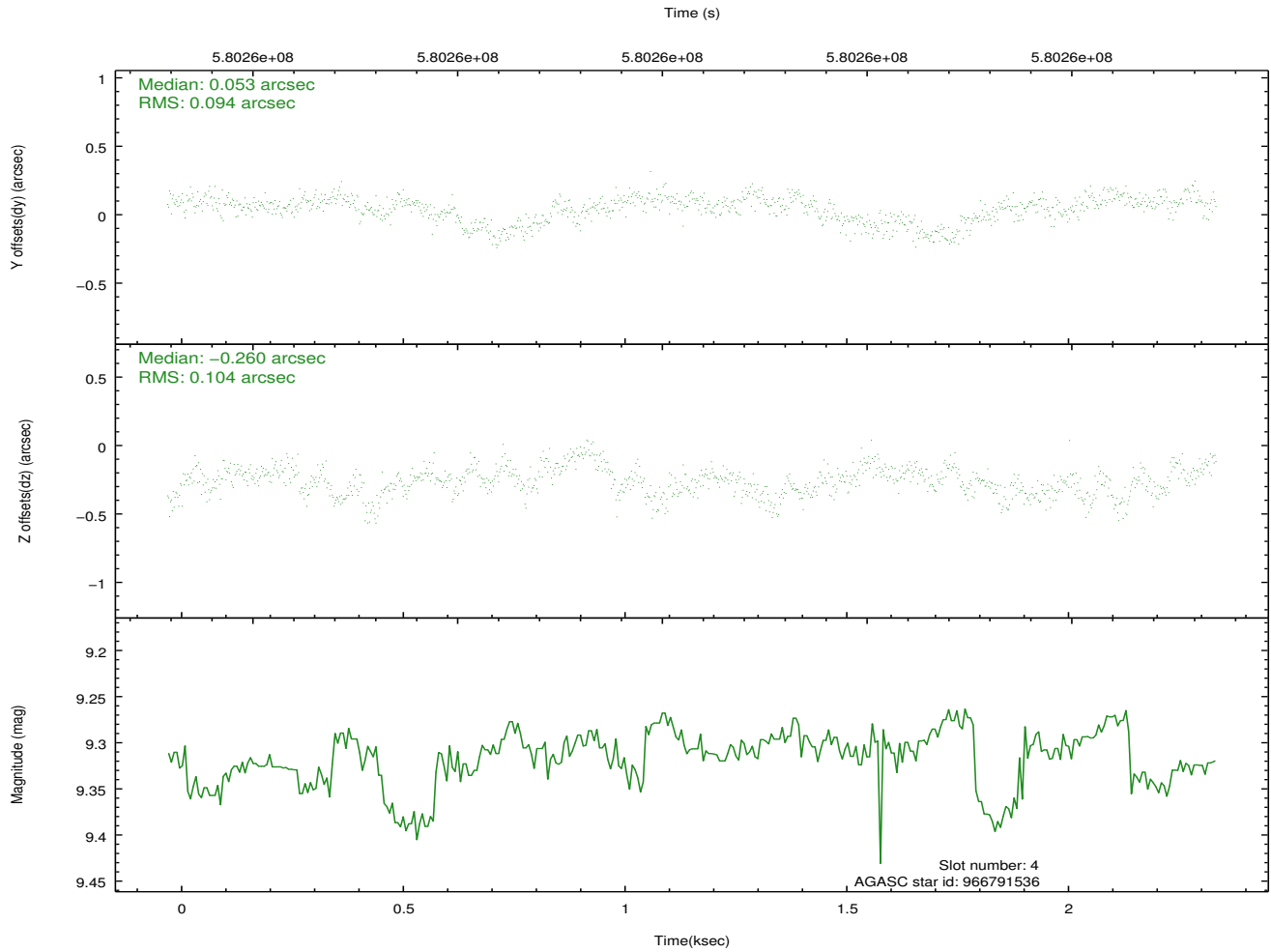
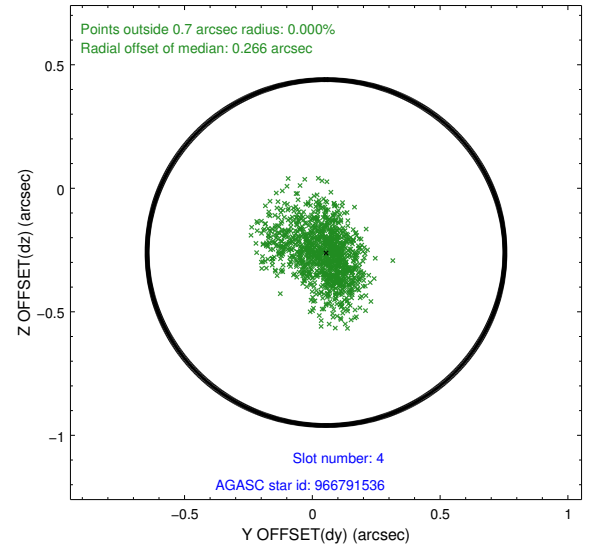
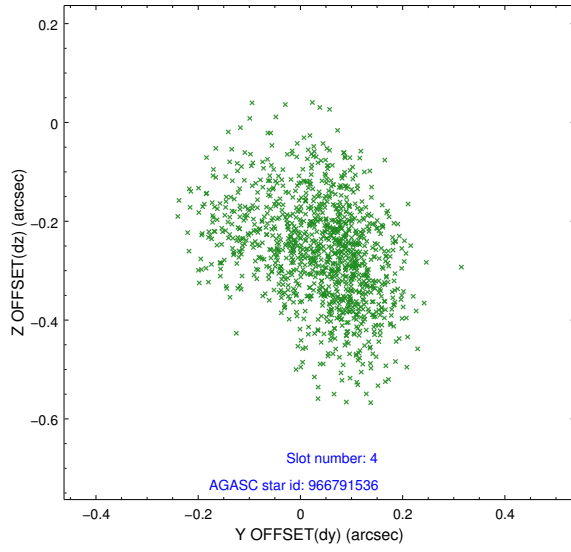
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	577	0.083	-0.080	0.006	0.012	0.000000	0.000000	927.97	-840.38
1	FID		ACIS-I-5	7.26	577	-0.301	0.051	0.006	0.011	0.000000	0.000000	-1819.03	1055.81
2	FID		ACIS-I-6	7.26	577	0.126	0.099	0.006	0.010	0.000000	0.000000	390.53	1703.51
3	GUIDE	used	896533888	7.04	1154	-0.279	0.244	0.100	0.156	266.666434	-29.392757	2210.43	-1069.41
4	GUIDE	used	966791536	9.31	1154	0.053	-0.260	0.149	0.250	265.423122	-30.013043	-952.19	2104.95
5	GUIDE	used	966918832	8.71	1154	0.322	0.404	0.099	0.159	266.278876	-30.183148	-850.26	-624.44
6	GUIDE	used	966924920	8.06	1154	-0.024	-0.020	0.098	0.157	265.875401	-30.176961	-1154.28	591.32
7	GUIDE	used	896403224	8.26	1152	-0.058	-0.368	0.088	0.136	265.612825	-29.438915	1194.69	2079.10

2.4 Star Slots

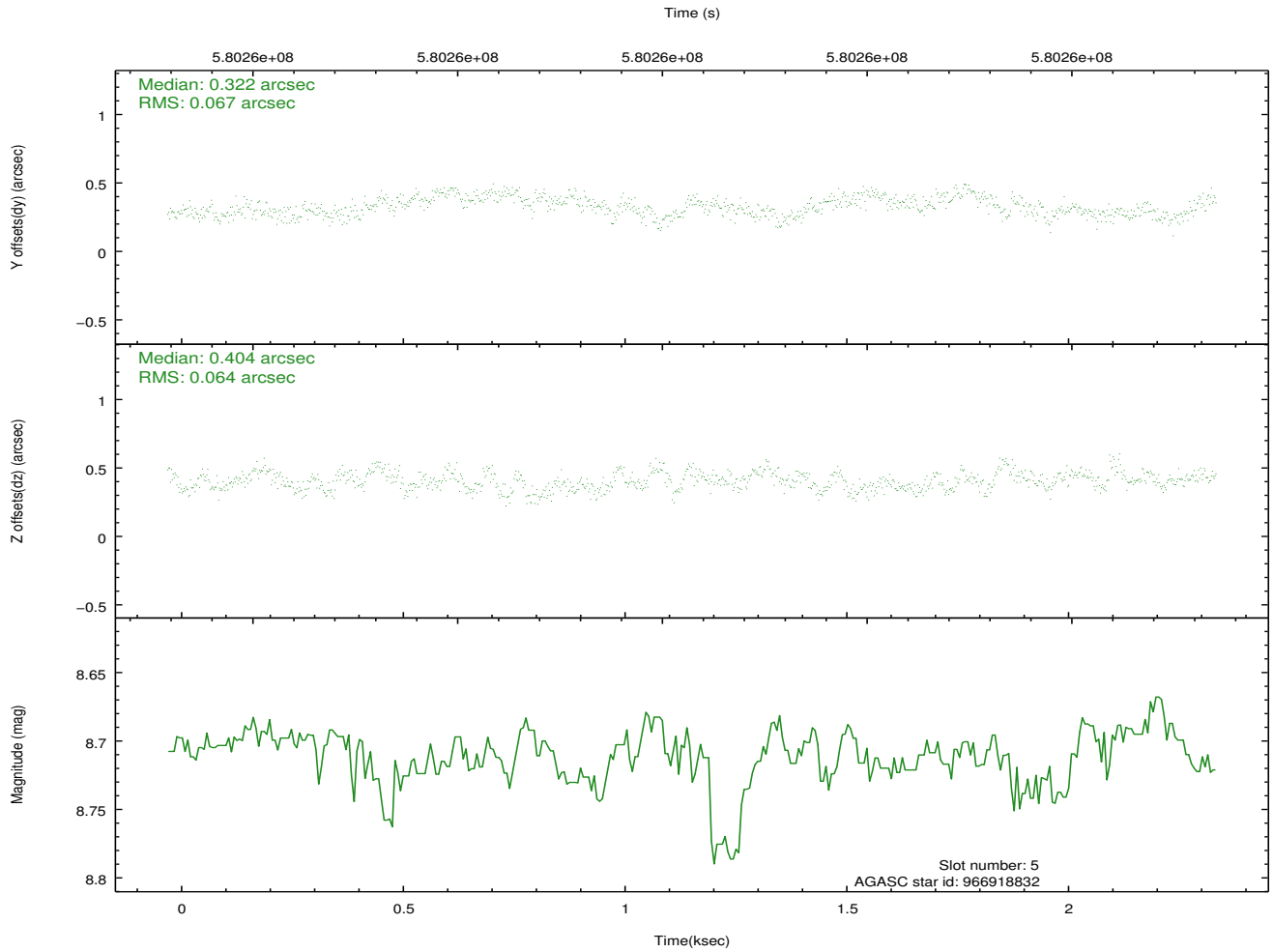
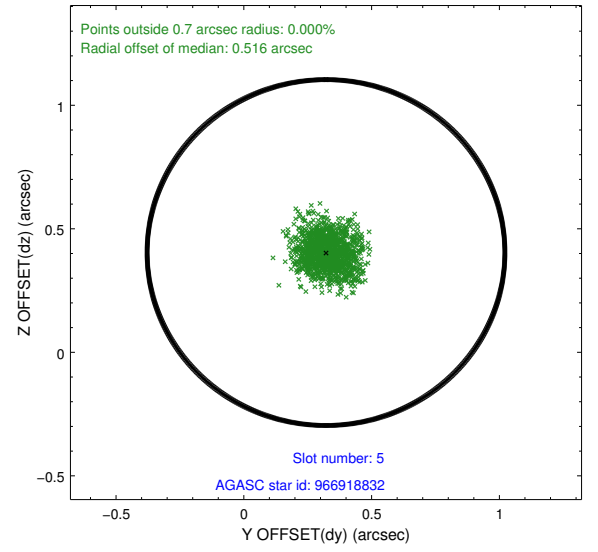
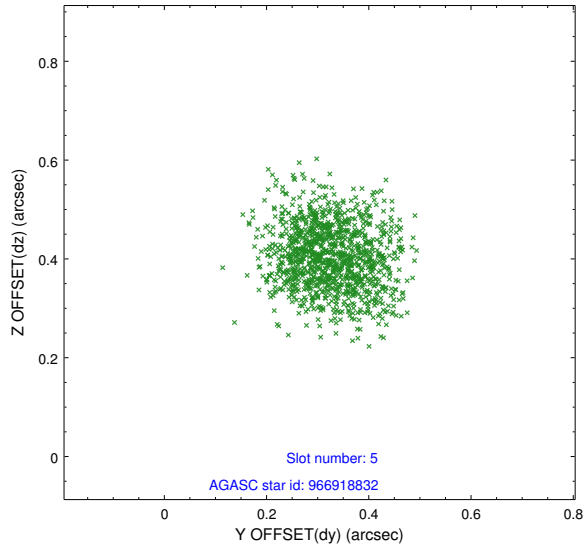
2.4.1 Slot 3



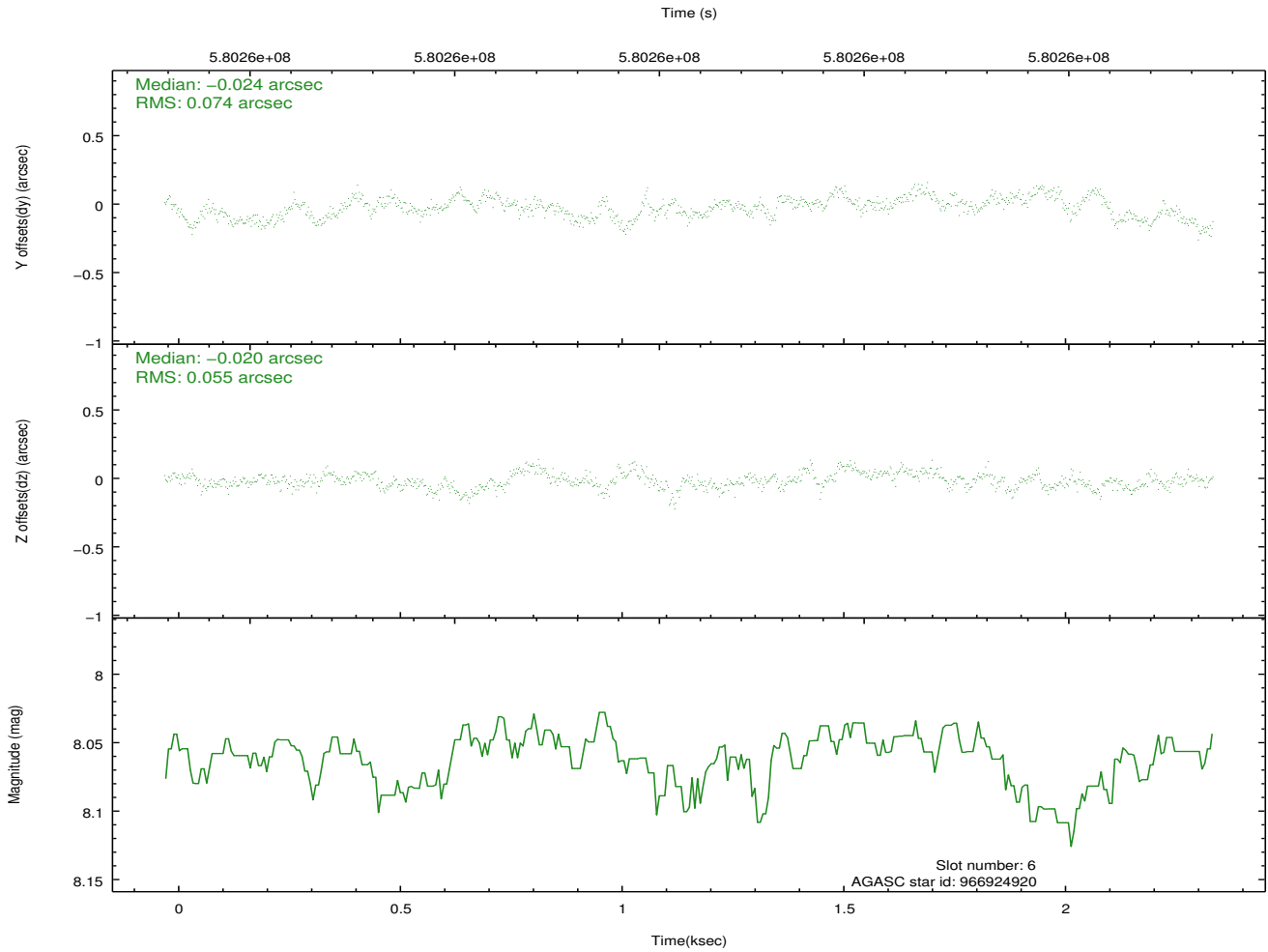
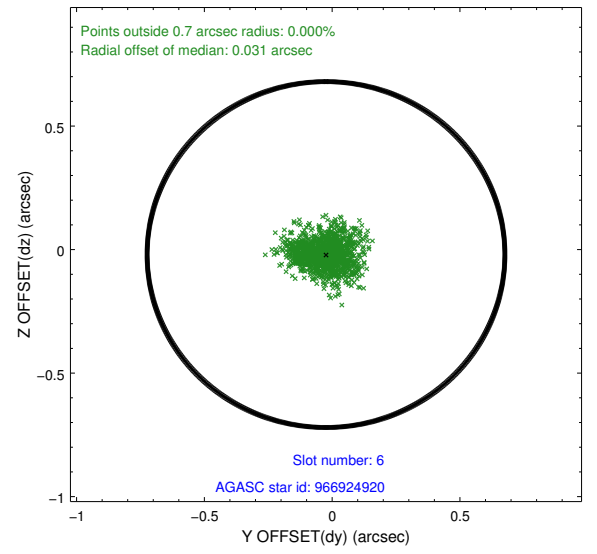
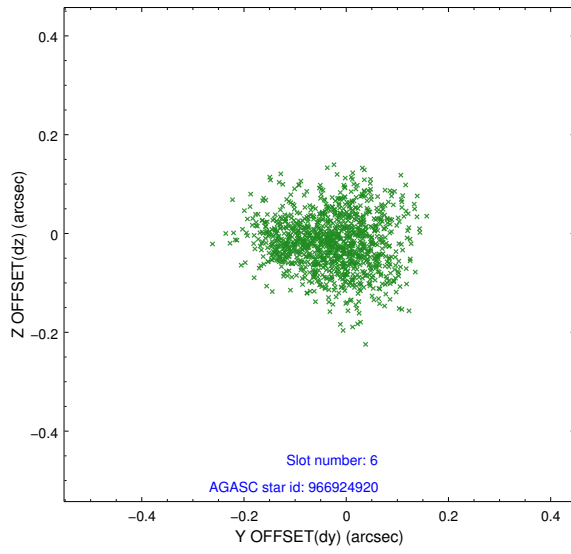
2.4.2 Slot 4



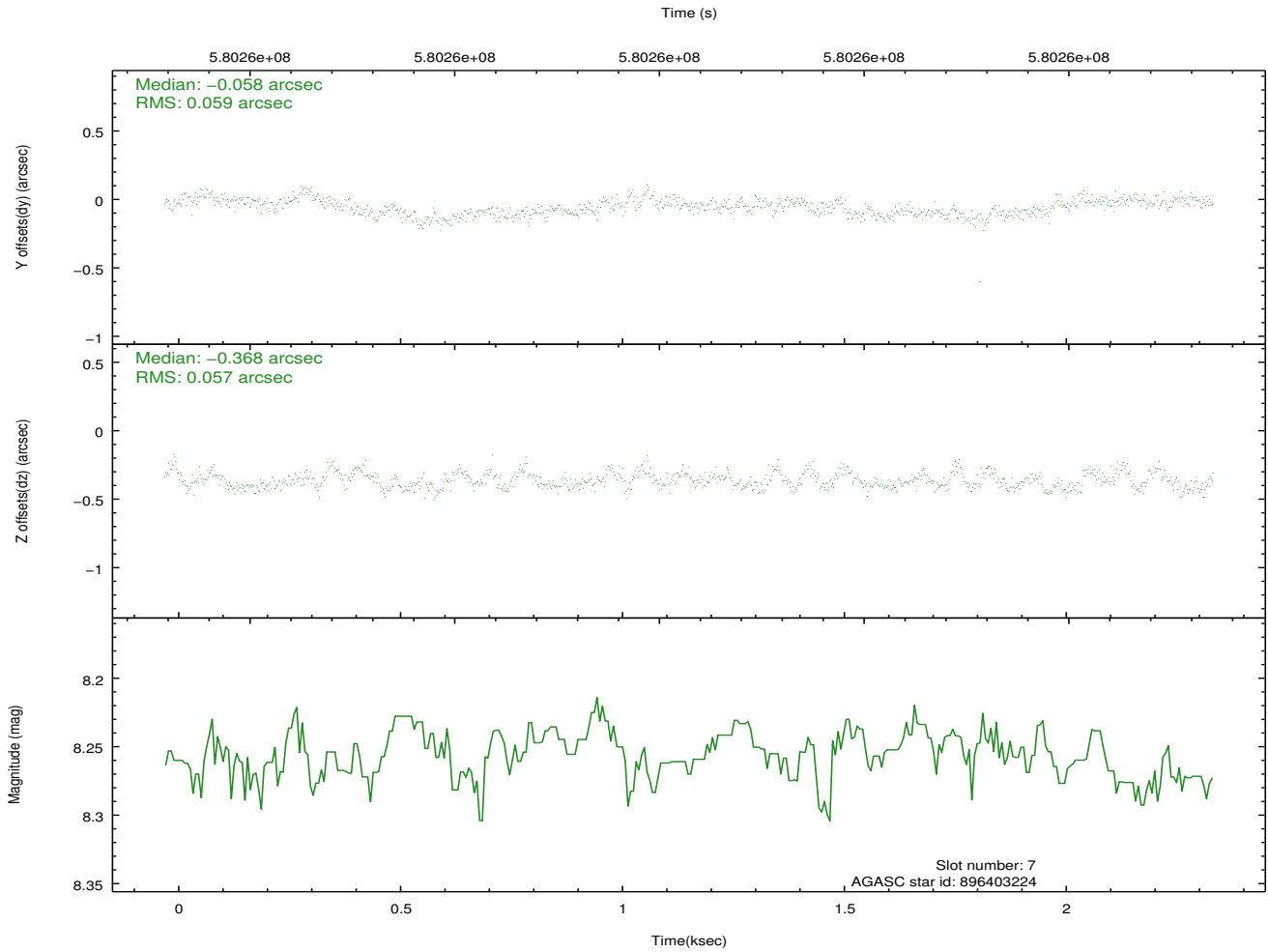
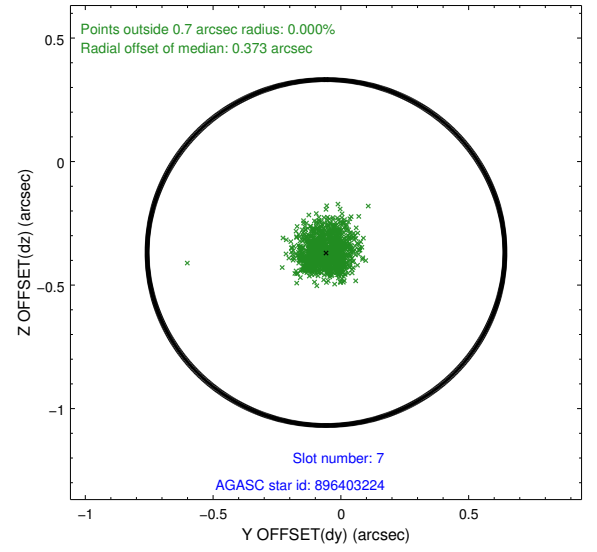
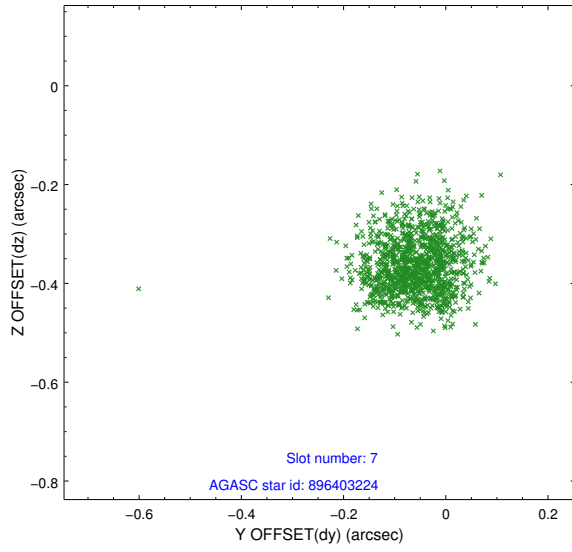
2.4.3 Slot 5



2.4.4 Slot 6

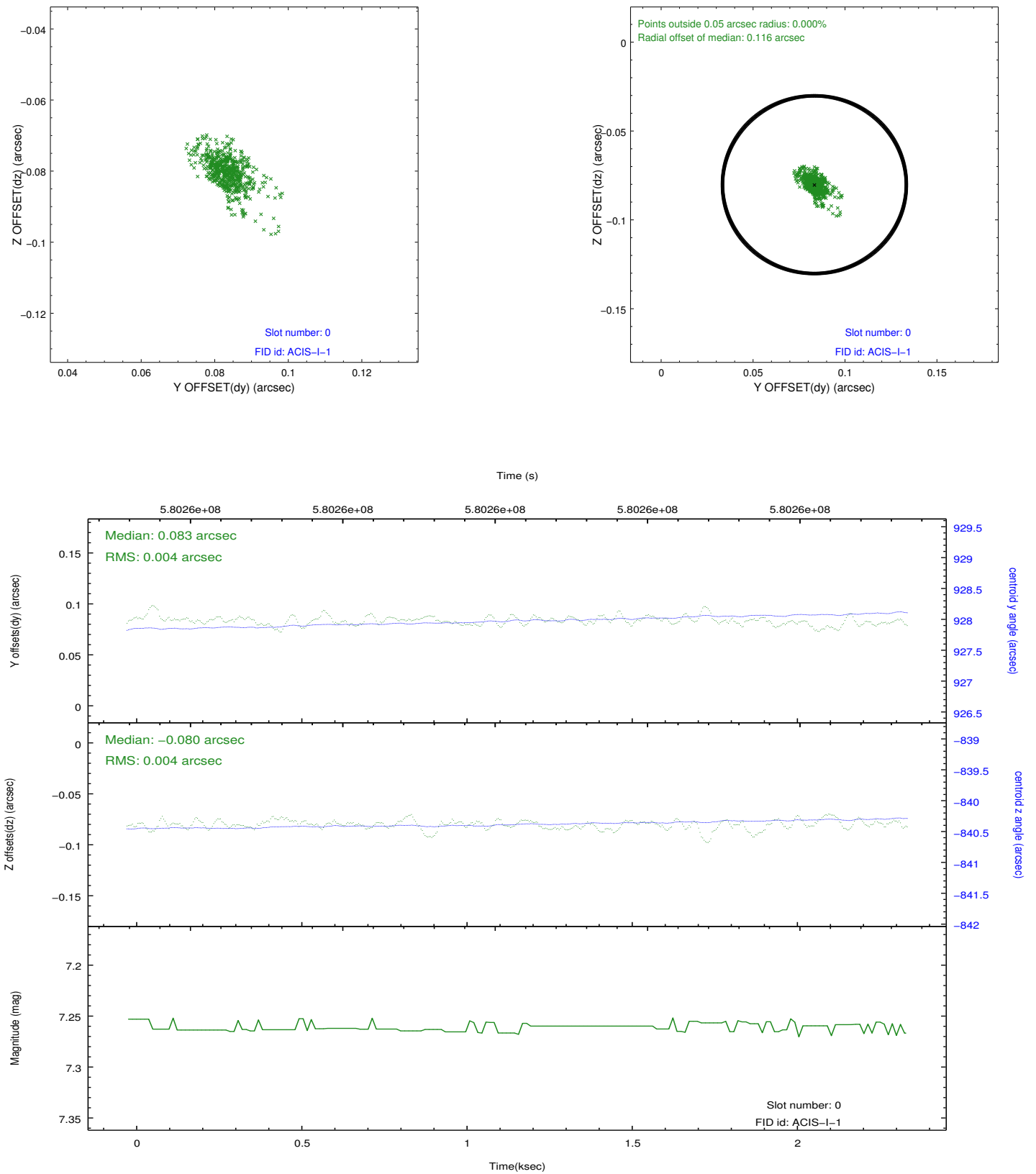


2.4.5 Slot 7

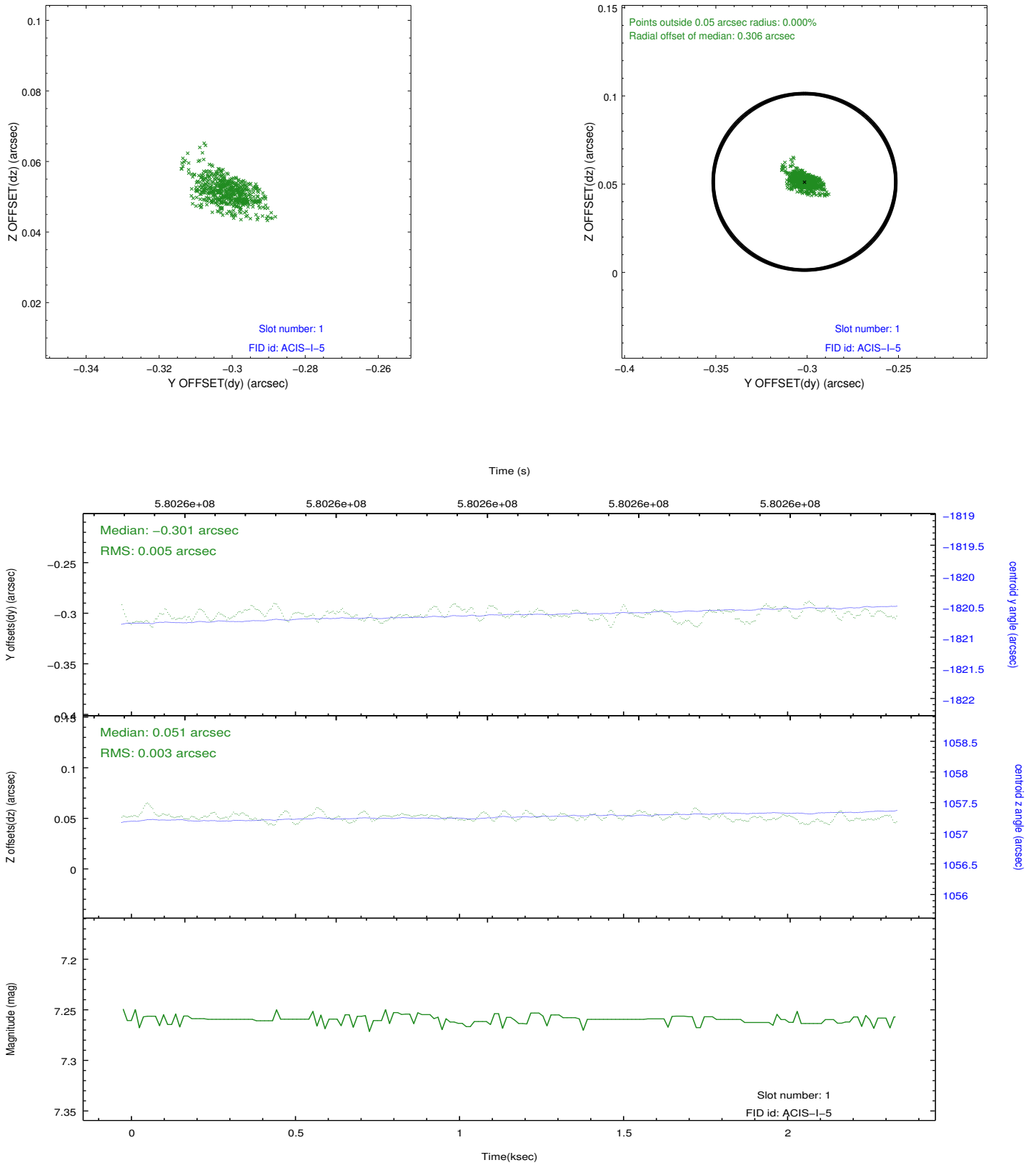


2.5 FID Slots

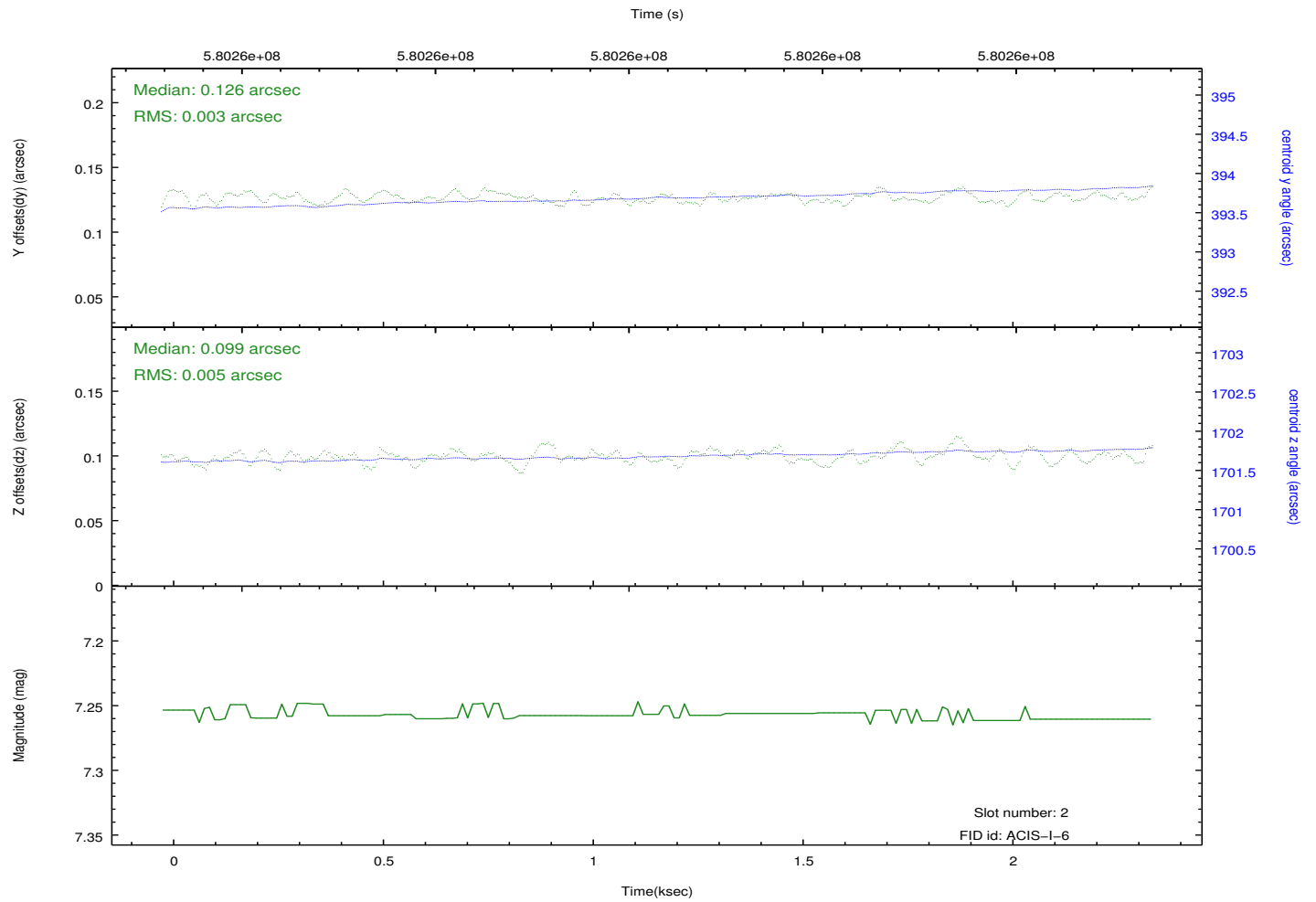
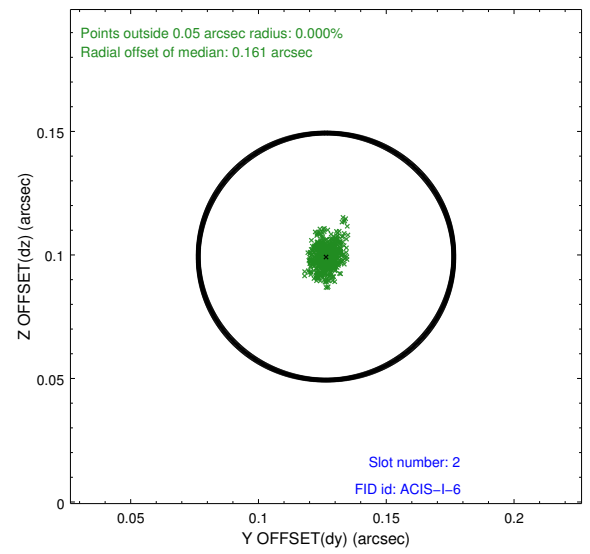
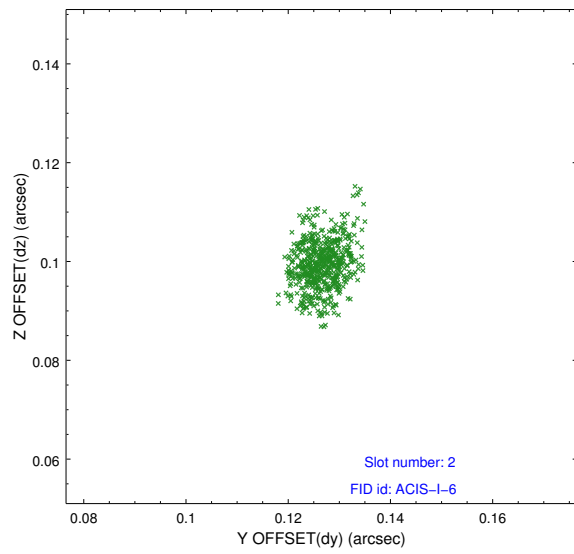
2.5.1 Slot 0



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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9556810096502

A.2 Comments