

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19871 - L2 Version 1
Chandra X-Ray Center

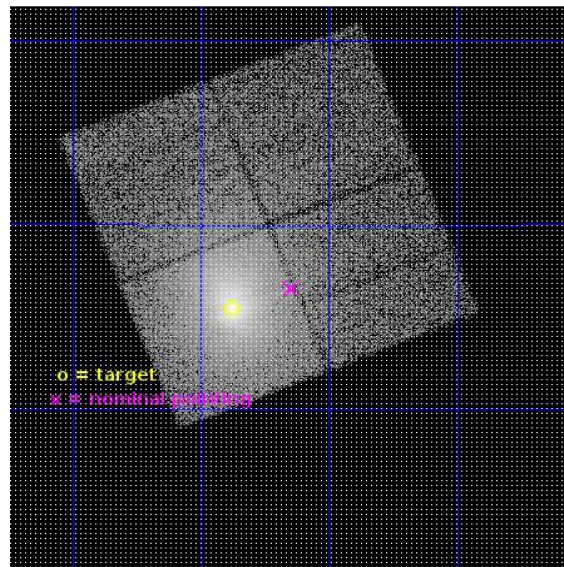
L2 Processing Date : Apr 6 2017

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1 Front

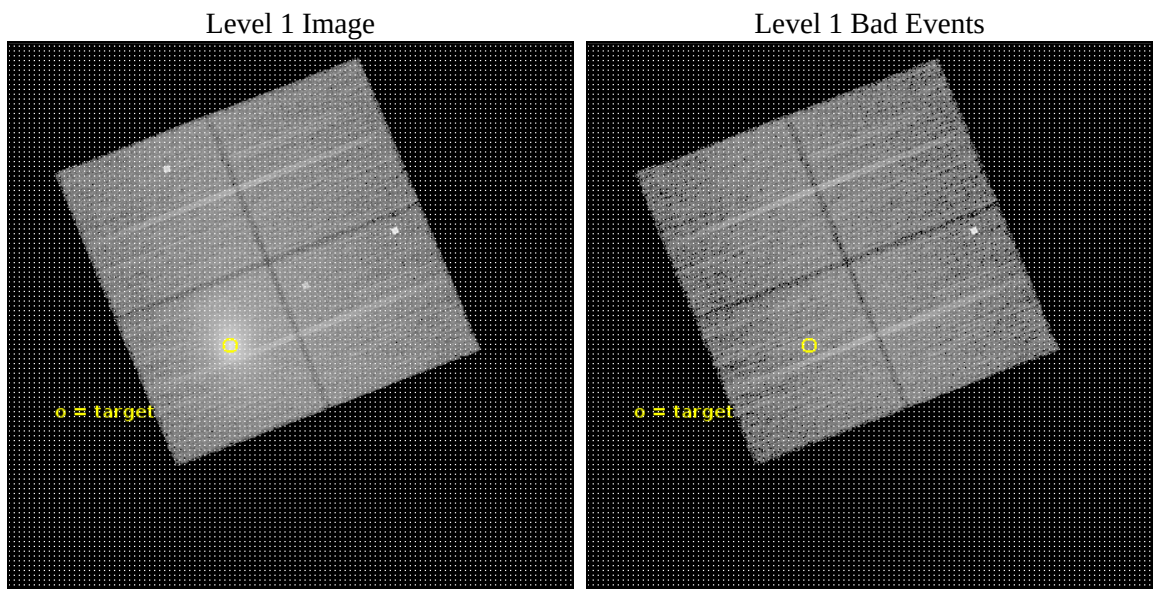
seq_num	890136	Sequence number
obs_id	19871	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.16162802117	Nominal RA [deg]
dec_nom	26.608863362696	Nominal Dec [deg]
roll_nom	158.2578597531	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25181.118885279	Sum of GTIs [s]
livetime	24852.109028973	Livetime [s]
ontime0	25177.854715347	Sum of GTIs [s]
ontime1	25177.895725012	Sum of GTIs [s]
ontime2	25174.795704842	Sum of GTIs [s]
ontime3	25181.118885279	Sum of GTIs [s]
l2events	211846	Number of level 2 events



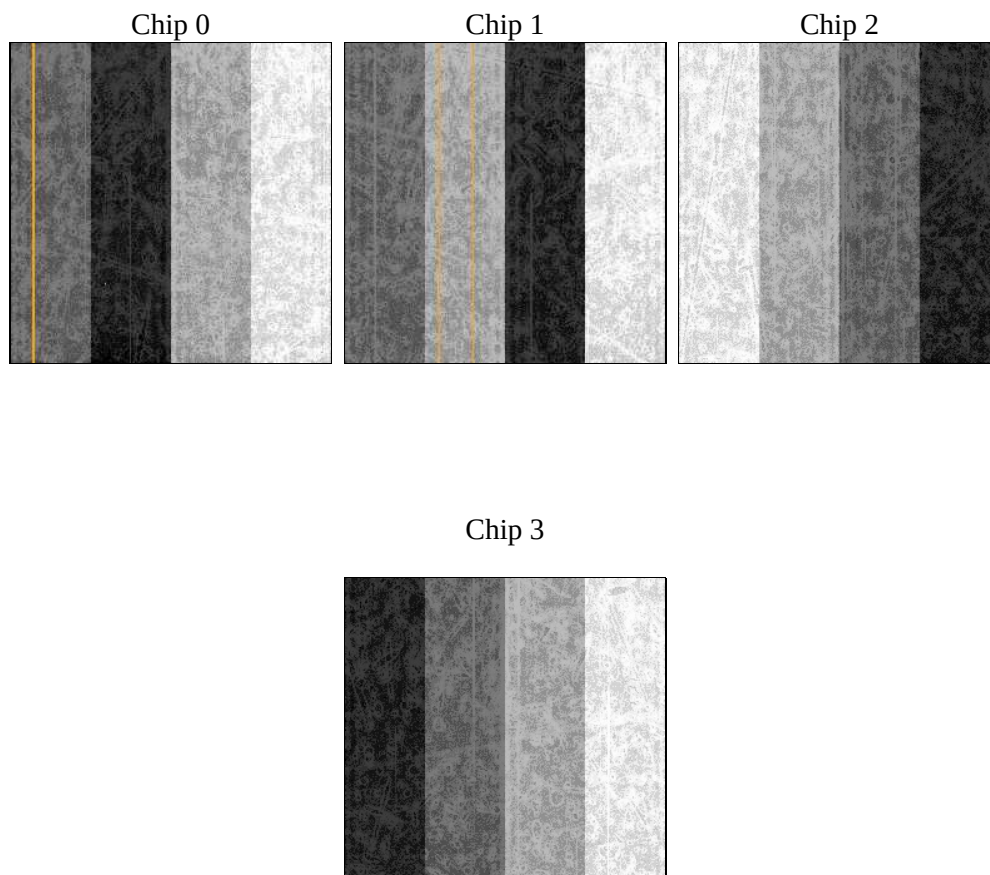
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25100.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	25181.118885279	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	25177.854715347	Sum of GTIs [s]
date	2017-04-06T16:09:34	Date and time of file creation	ontime1	25177.895725012	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25174.795704842	Sum of GTIs [s]
			ontime3	25181.118885279	Sum of GTIs [s]
			l1events	851190	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	163313	182355	195469	310053
rejected events	141556	147622	167939	157804
rejected %	86%	80%	85%	50%

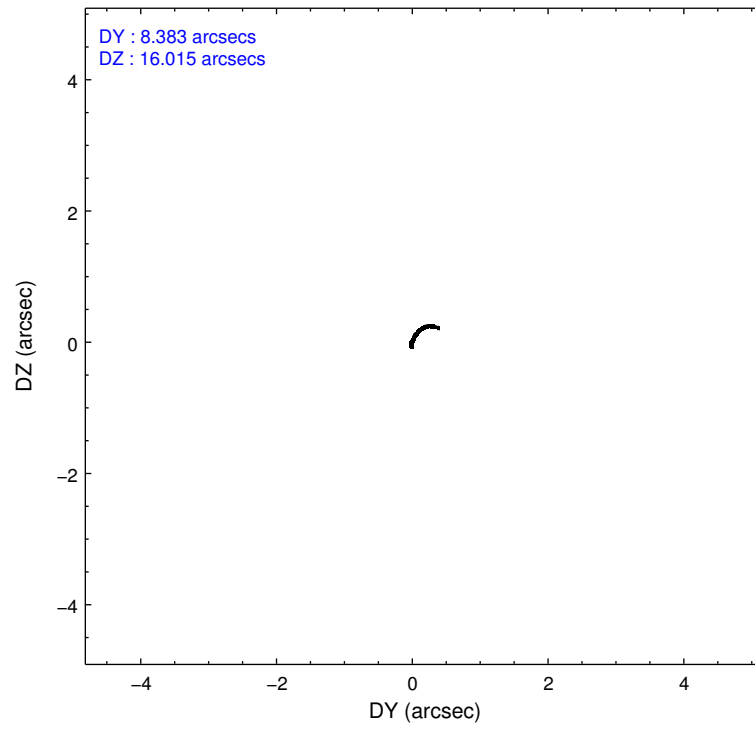
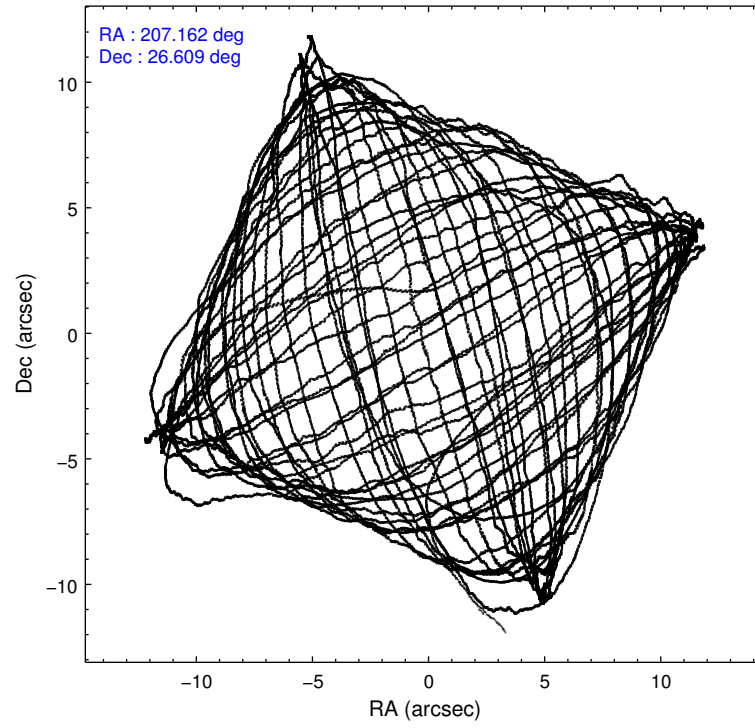
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8482	19005	14295	114184
	5%	10%	7%	36%
grade 1 events	88	116	7912	611
	0%	0%	4%	0%
grade 2 events	4974	6124	5164	17925
	3%	3%	2%	5%
grade 3 events	2066	2340	2065	6229
	1%	1%	1%	2%
grade 4 events	1944	2227	2084	6287
	1%	1%	1%	2%
grade 5 events	7367	7791	6927	8848
	4%	4%	3%	2%
grade 6 events	4295	5040	3927	7646
	2%	2%	2%	2%
grade 7 events	134097	139712	153095	148323
	82%	76%	78%	47%

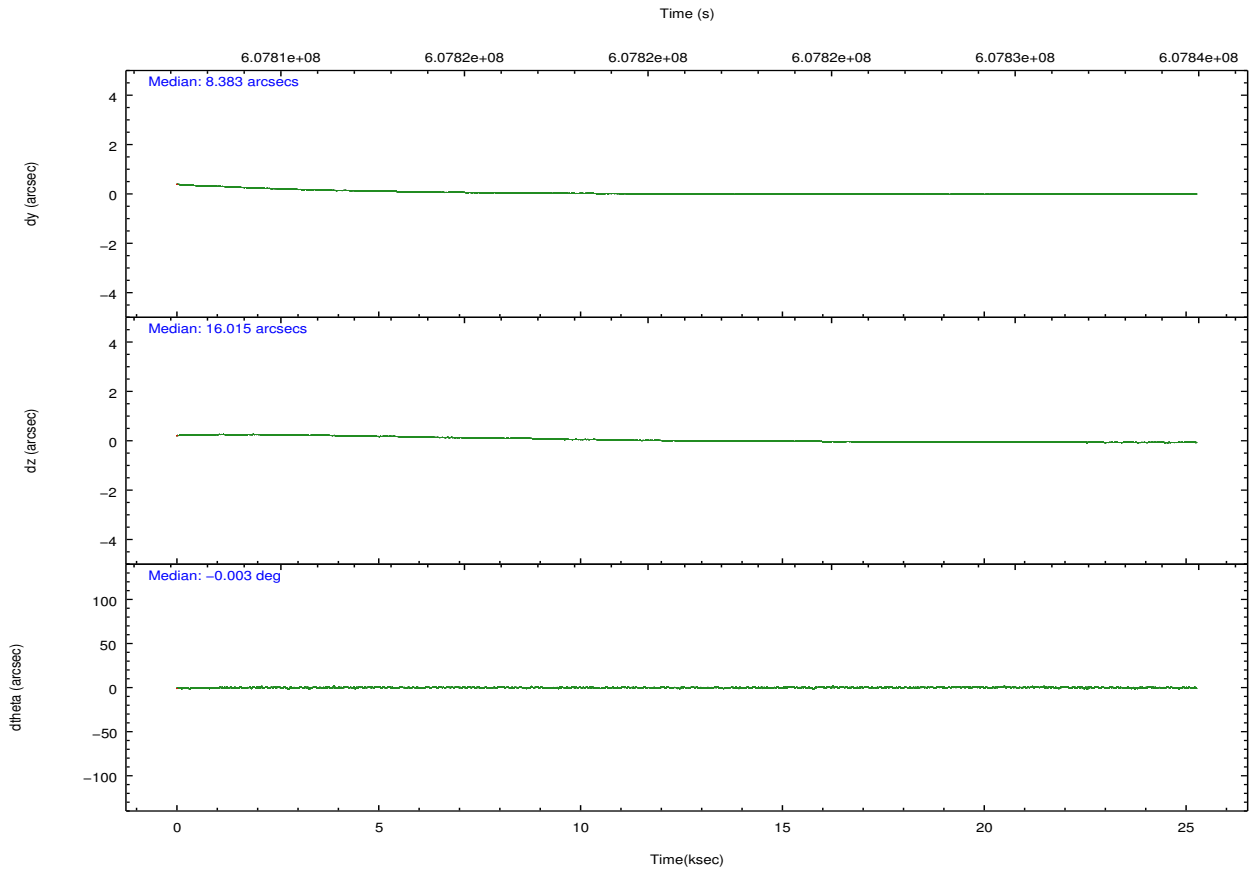
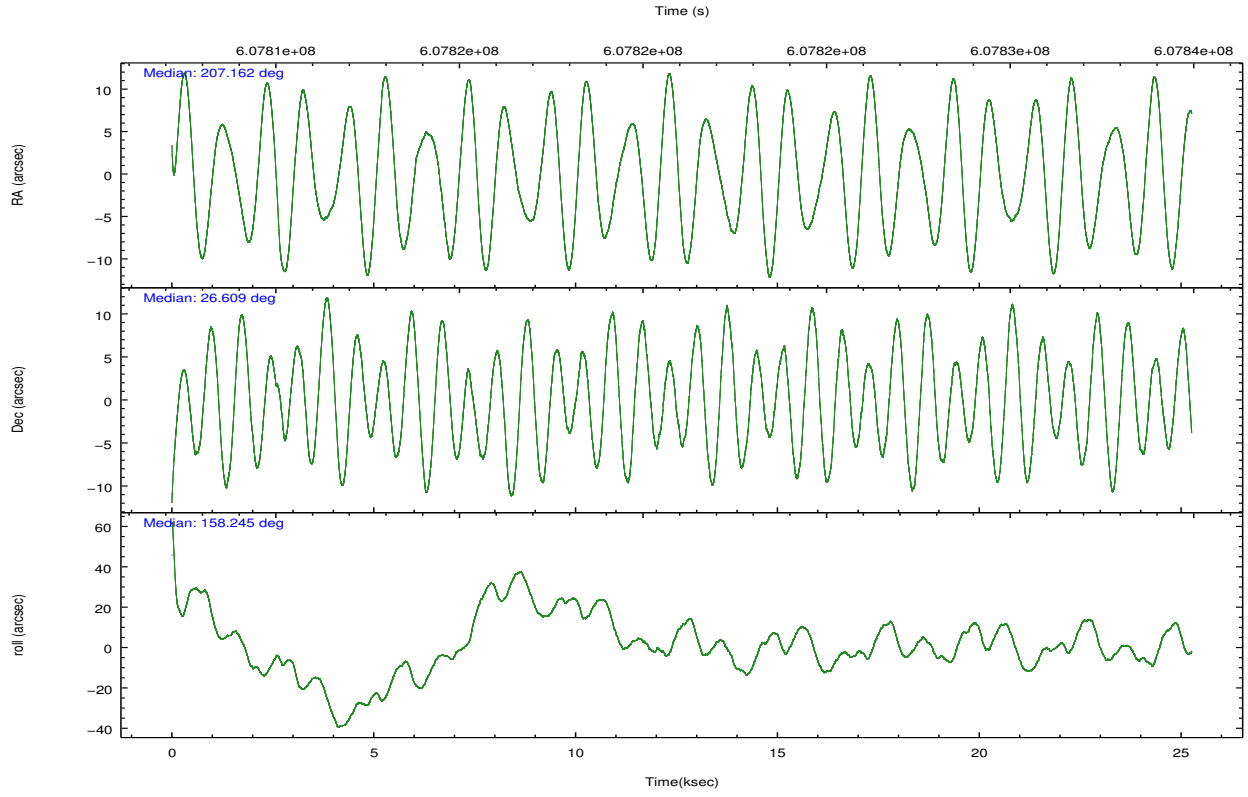
2.2 Compared Parameters

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	207.192143	207.1616280211735
[deg] Pointing Dec	26.612915	26.60886336269612
[deg] Pointing Roll	158.035479	158.2578597531047
[s] Window start time (MET)	607392069.184000	607392069.184000
[s] Window stop time (MET)	609897669.184000	609897669.184000
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-224.862463	-224.8577317338124
[mm] SIM translation stage offset	-8.73	-8.73472126911733
[s] Observation start time (MET)	607808574.184000	607807590.66318
Observation start date	2017-04-05T19:41:45	2017-04-05T19:26:30
[s] Observation end time (MET)	607833674.184000	607834742.4022599
Observation end date	2017-04-06T02:40:05	2017-04-06T02:59:02
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	N
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
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



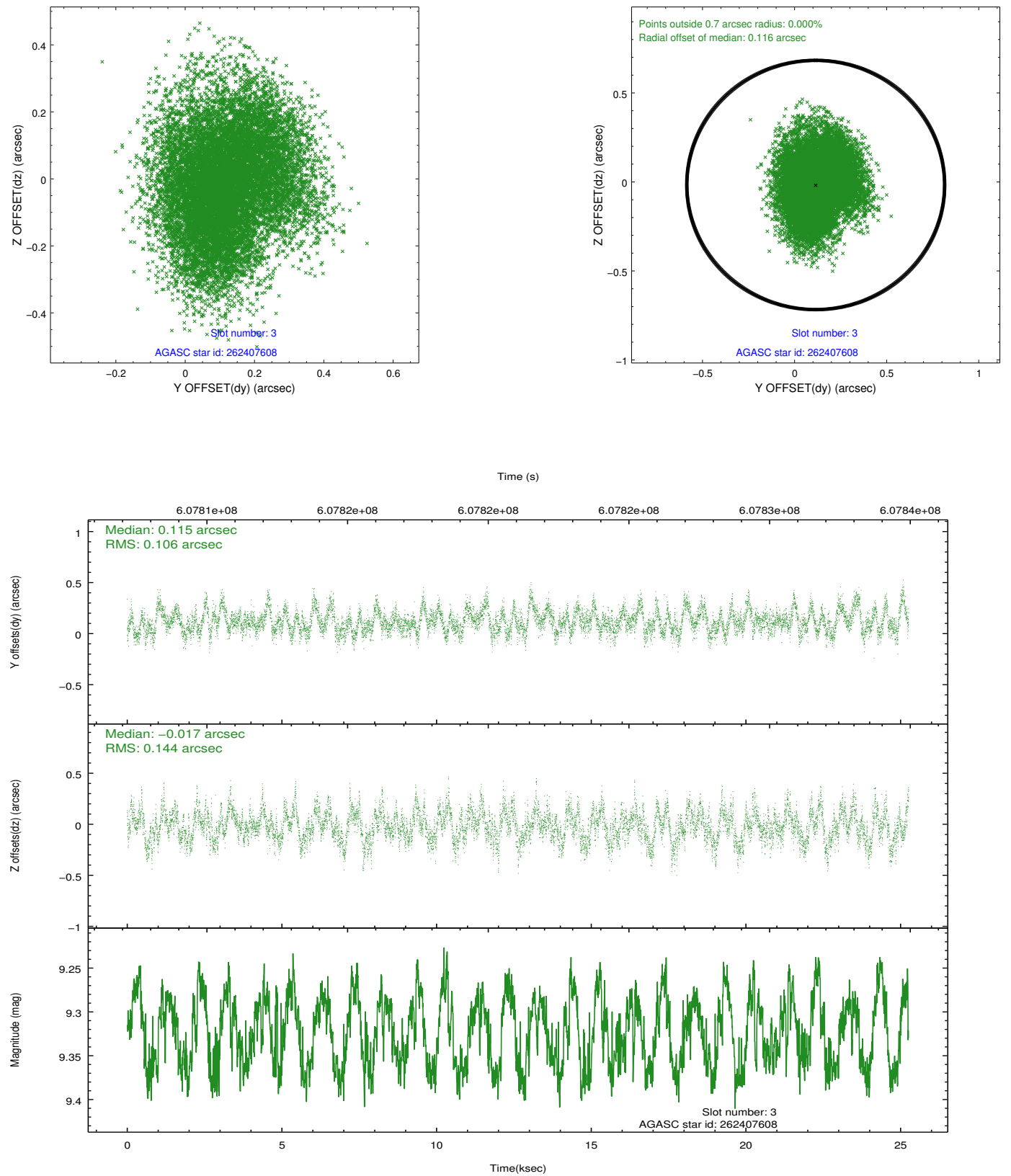


Slot Statistics

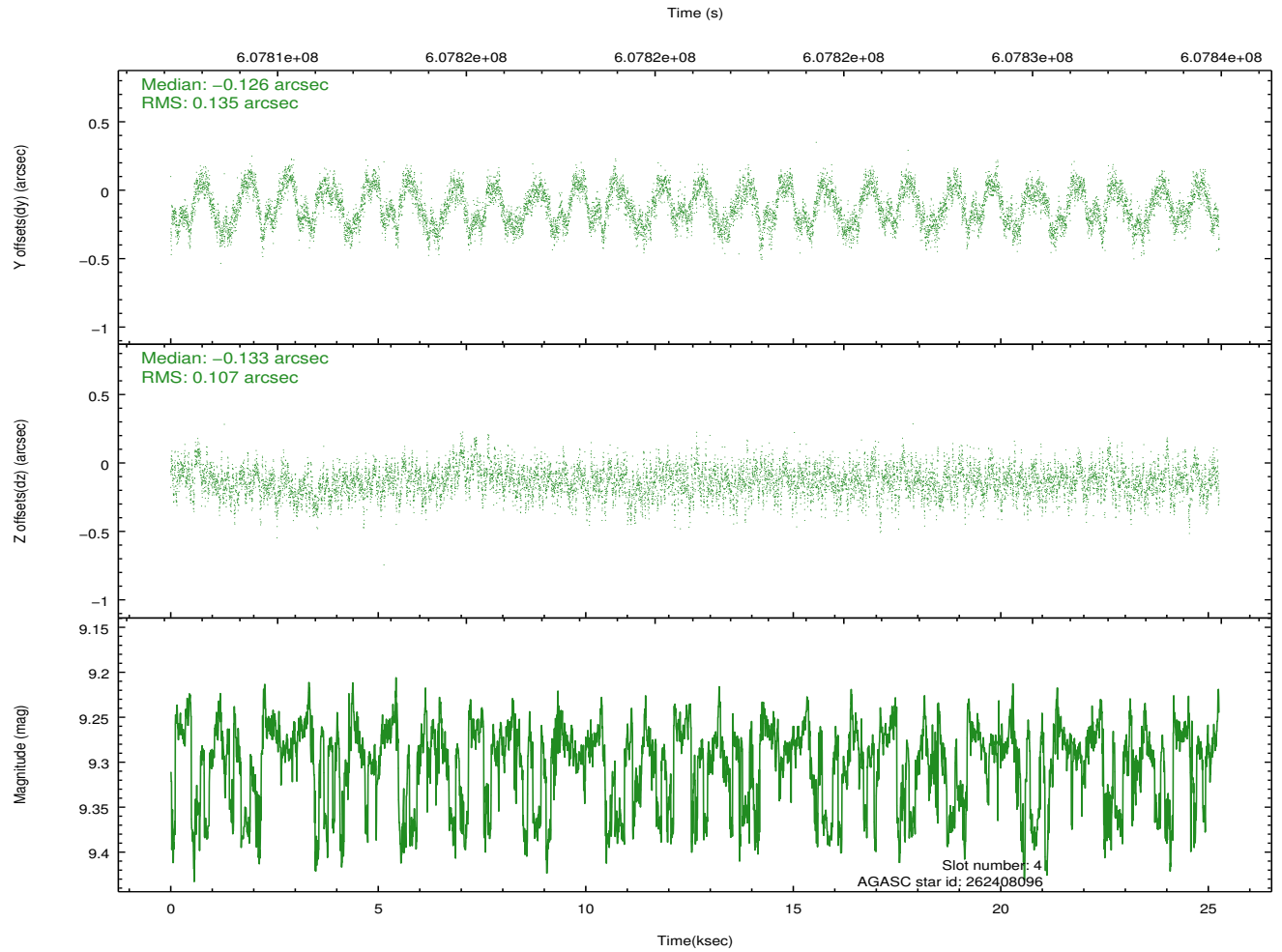
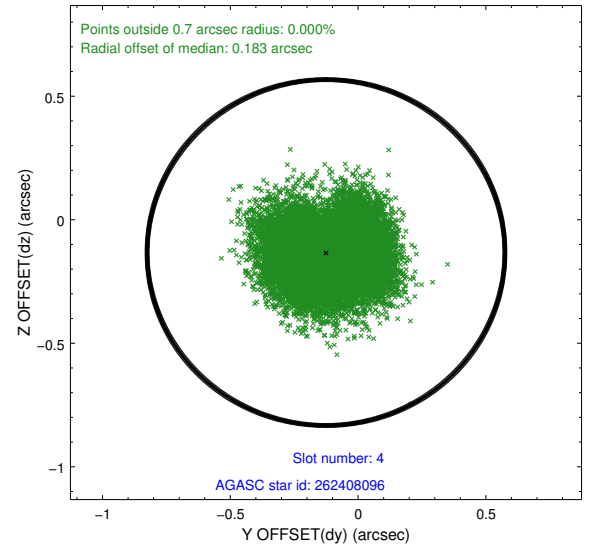
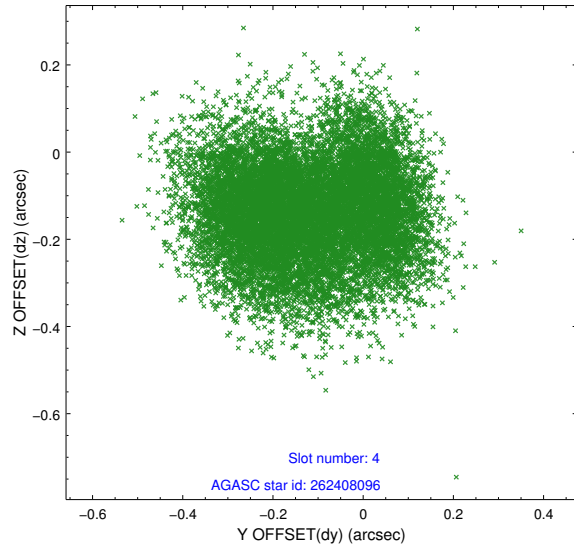
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	6162	0.208	-0.185	0.007	0.012	0.000000	0.000000	931.28	-1019.18
1	FID		ACIS-I-5	7.15	6161	-0.418	0.136	0.007	0.012	0.000000	0.000000	-1817.44	878.47
2	FID		ACIS-I-6	7.18	6162	0.118	0.120	0.007	0.012	0.000000	0.000000	396.54	1523.15
3	GUIDE	used	262407608	9.32	12302	0.115	-0.017	0.193	0.308	207.378401	26.435507	-795.45	367.59
4	GUIDE	used	262408096	9.29	12313	-0.126	-0.133	0.190	0.279	207.011678	26.515421	408.67	542.98
5	GUIDE	used	262408936	9.63	12307	-0.079	0.053	0.201	0.335	207.154731	26.726554	264.55	-333.75
6	GUIDE	used	262411960	9.65	12306	0.000	-0.178	0.248	0.403	207.327895	25.881727	-1392.45	2276.50
7	GUIDE	used	262408512	7.97	12317	0.049	0.282	0.137	0.237	207.800210	27.128796	-1109.69	-2454.76

2.4 Star Slots

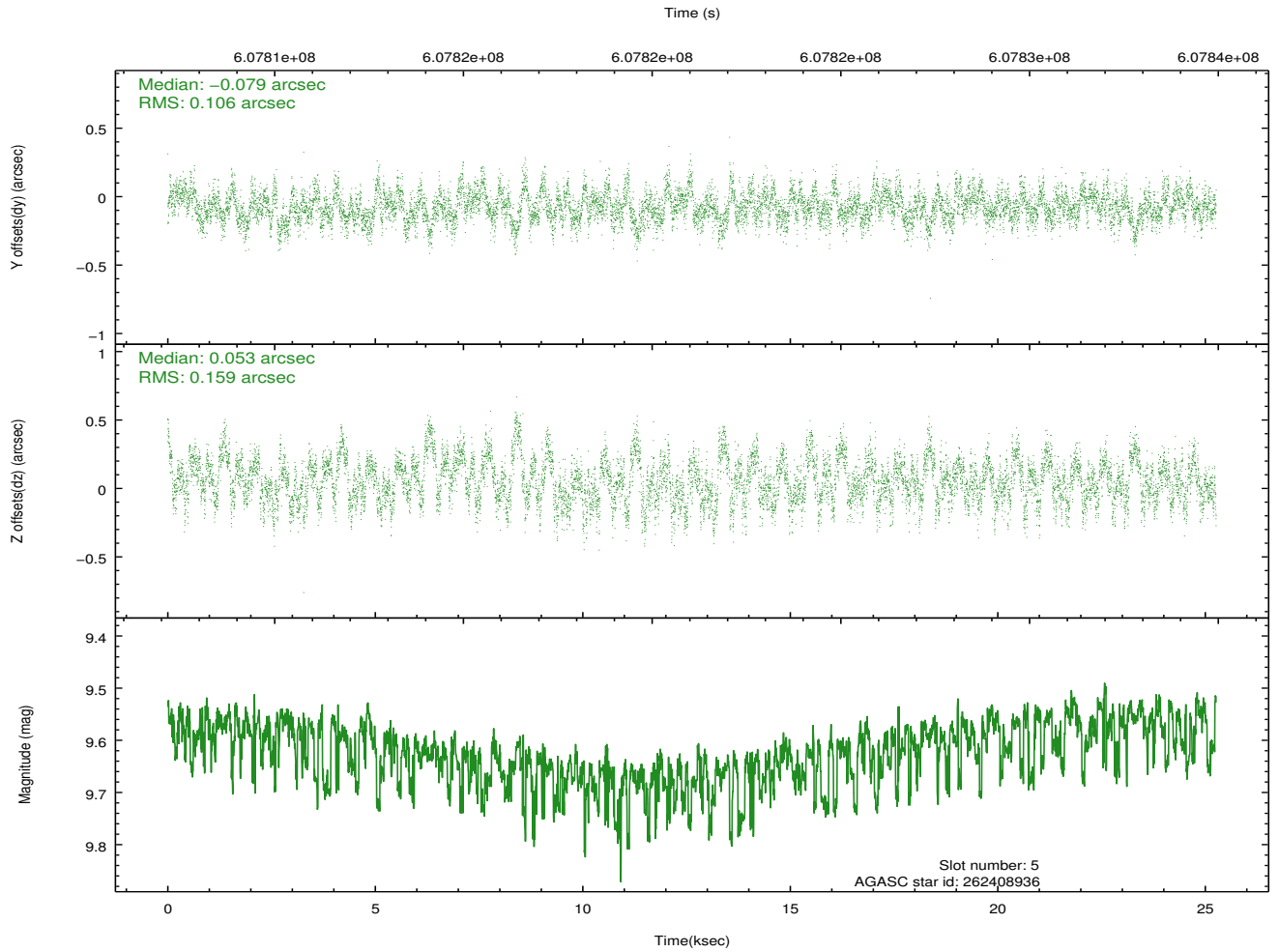
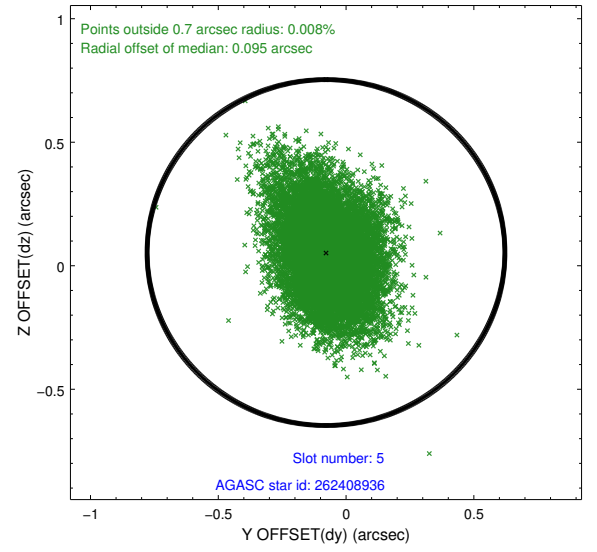
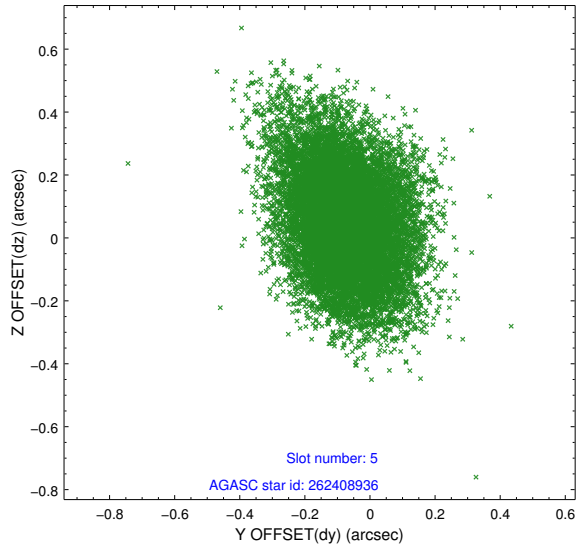
2.4.1 Slot 3



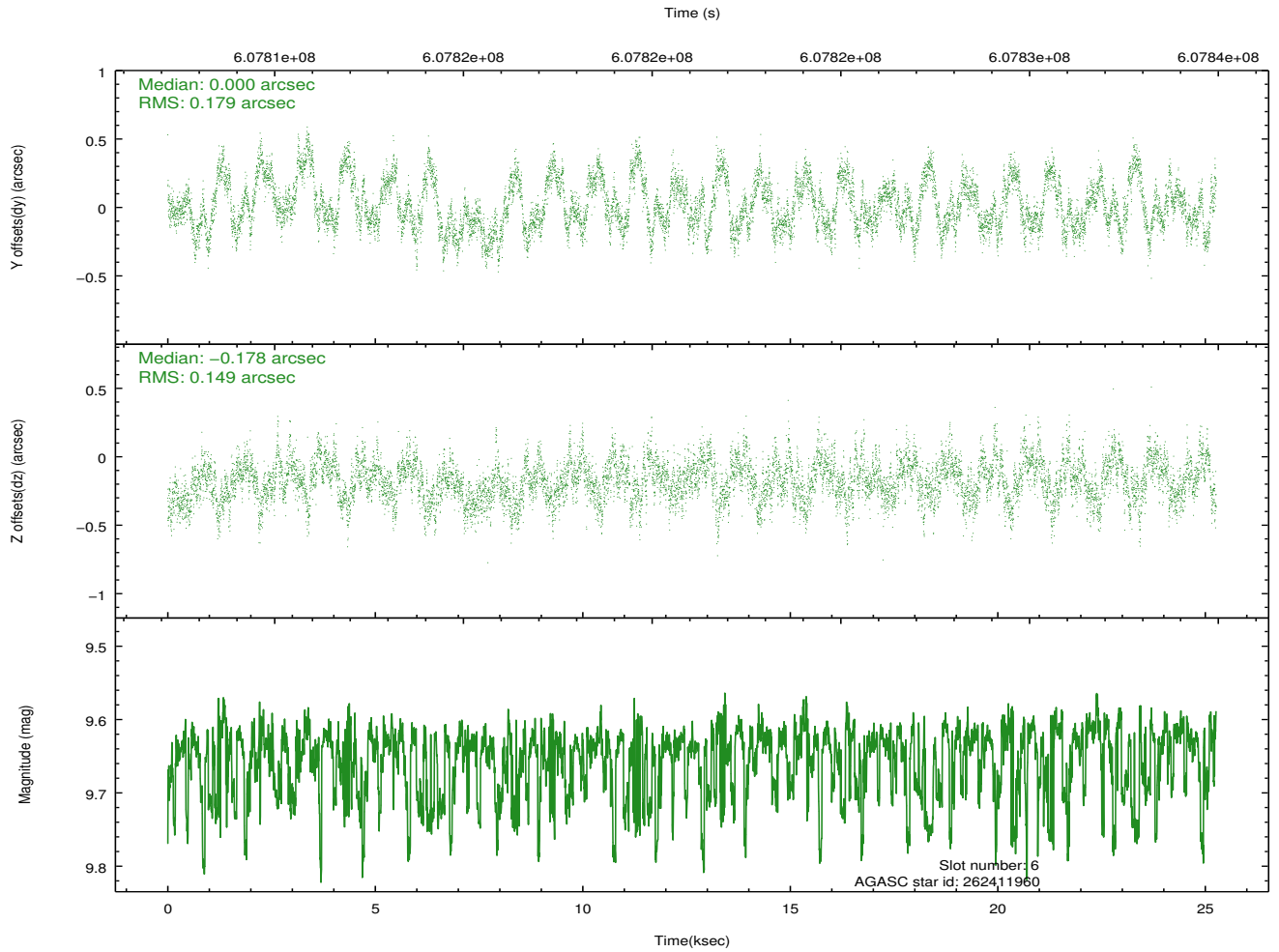
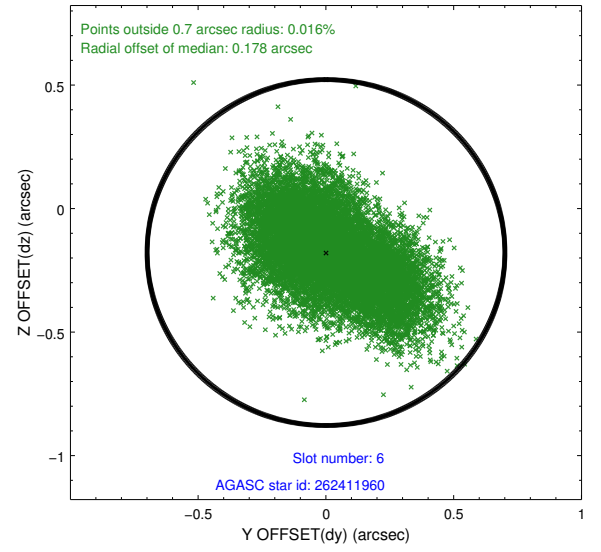
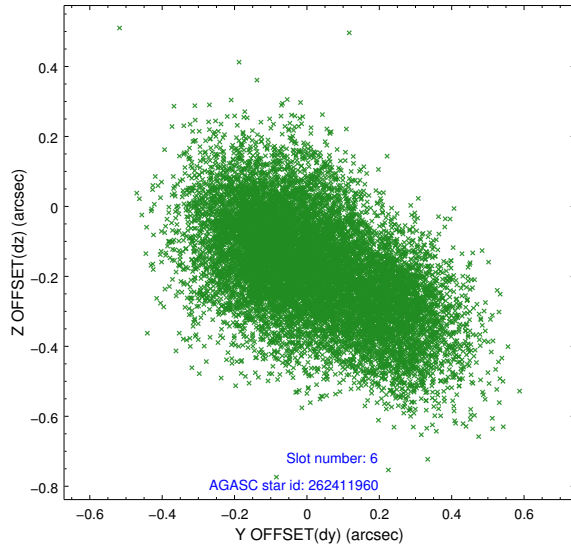
2.4.2 Slot 4



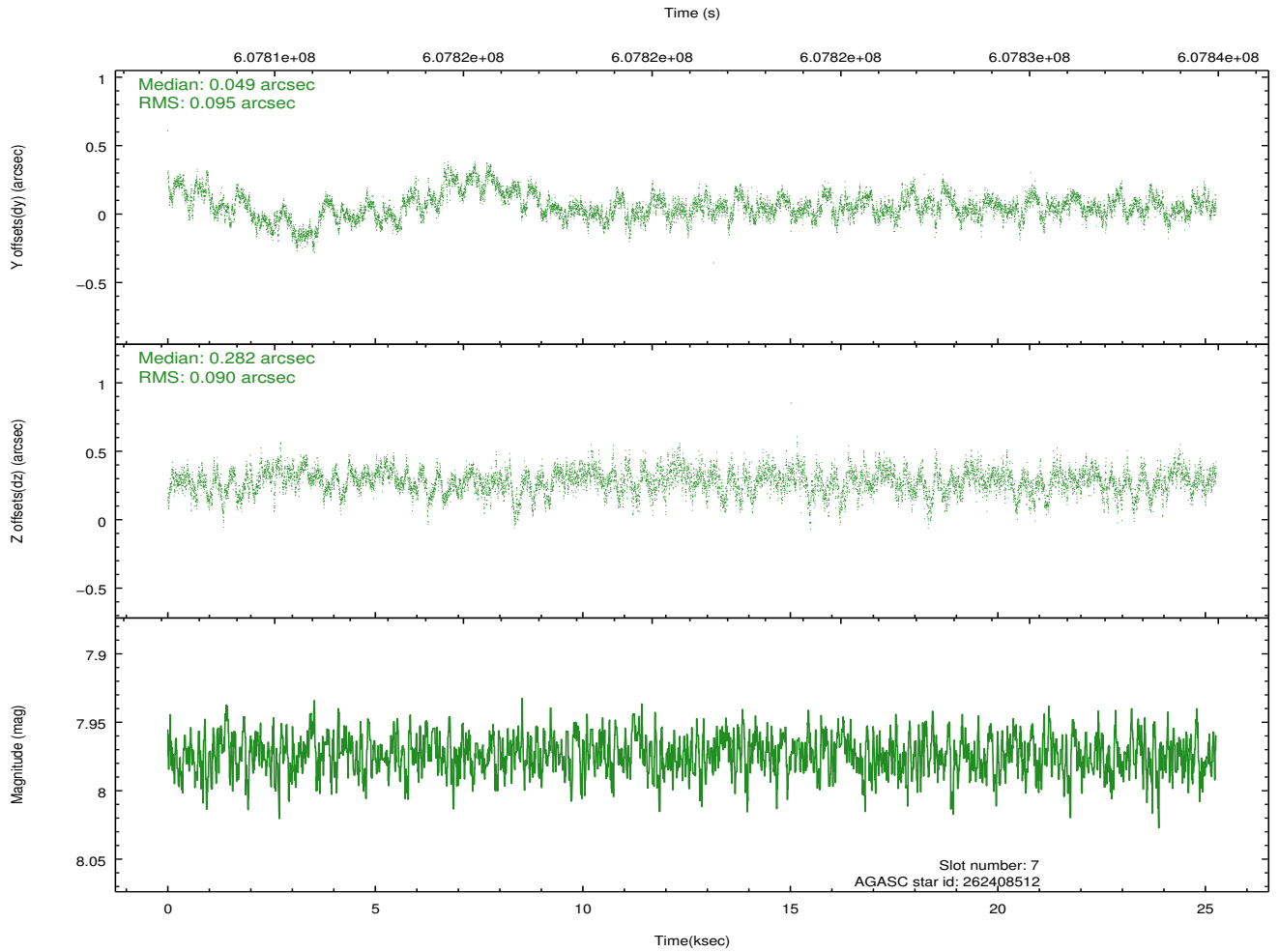
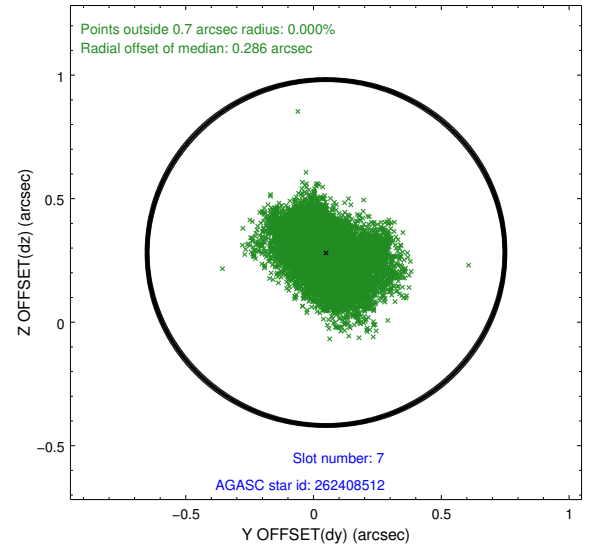
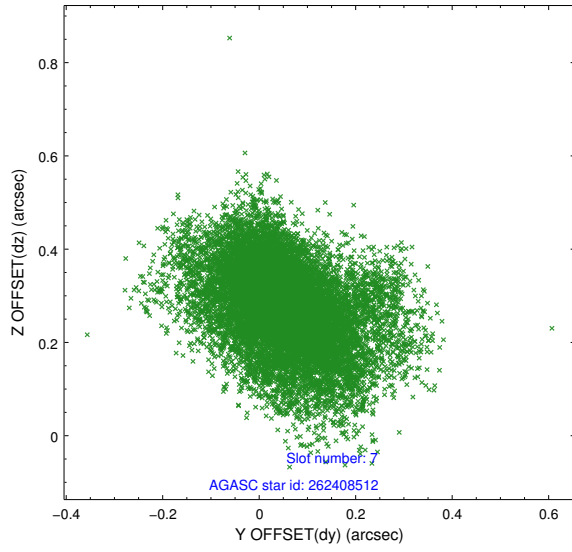
2.4.3 Slot 5



2.4.4 Slot 6

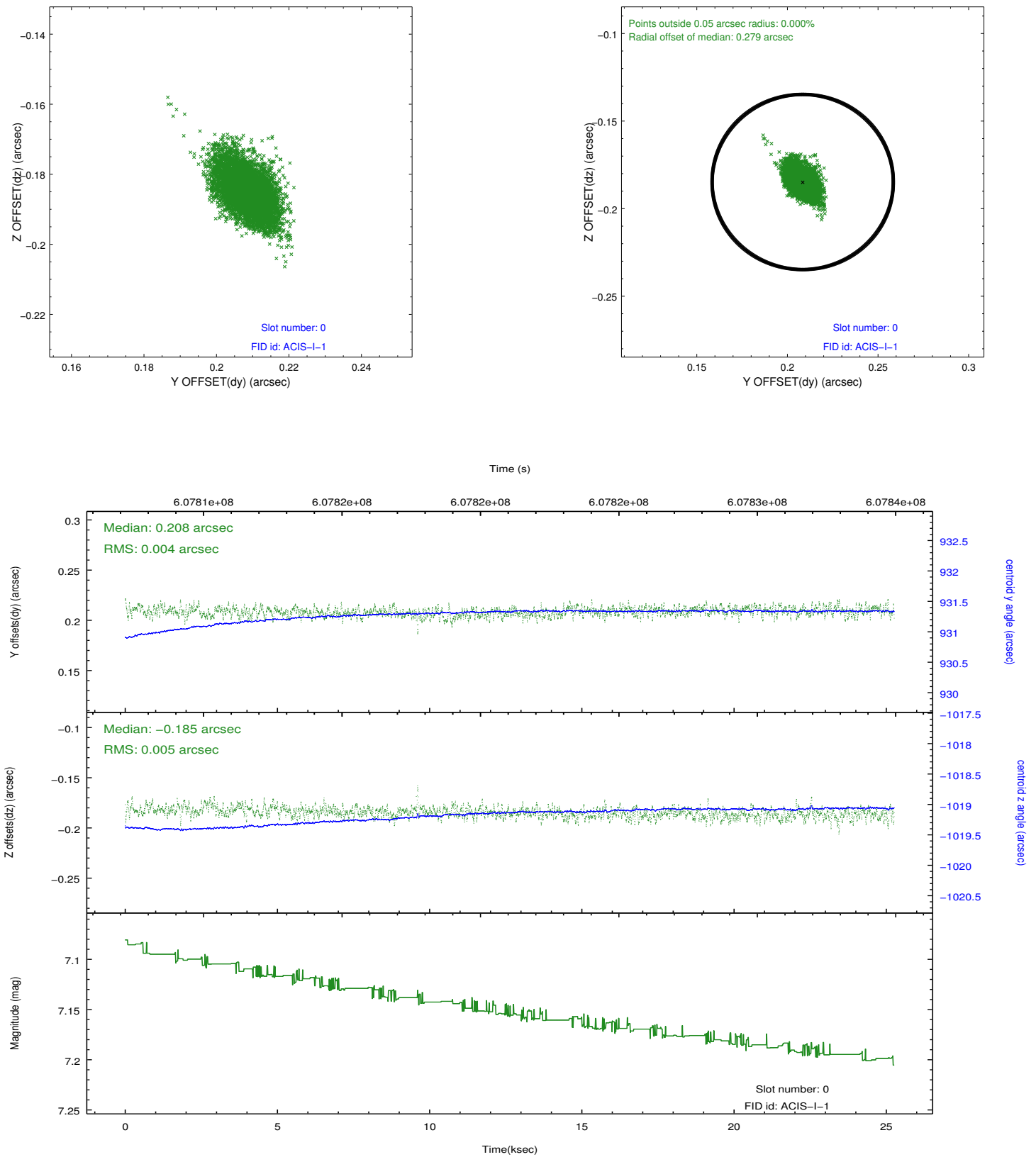


2.4.5 Slot 7

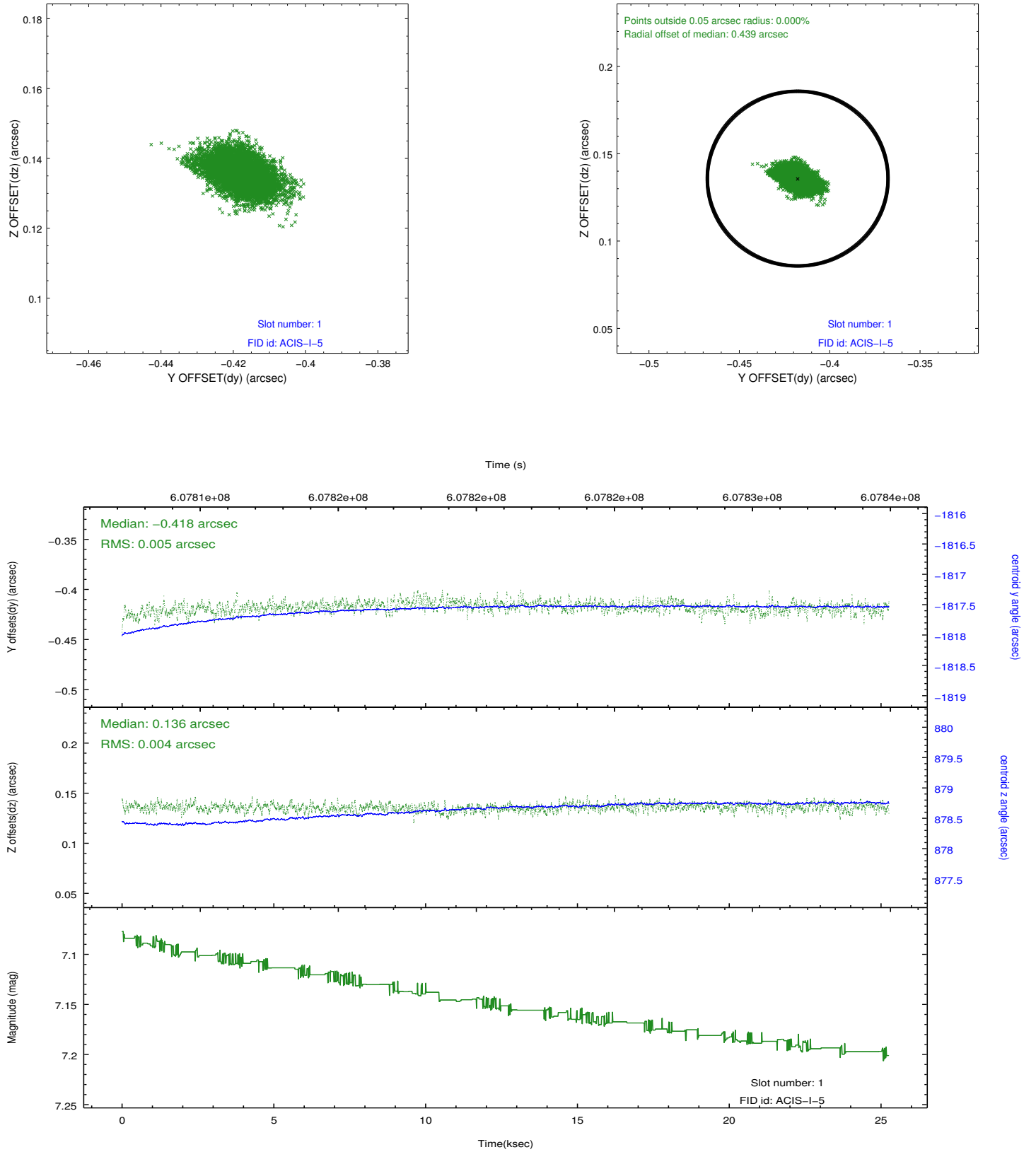


2.5 FID Slots

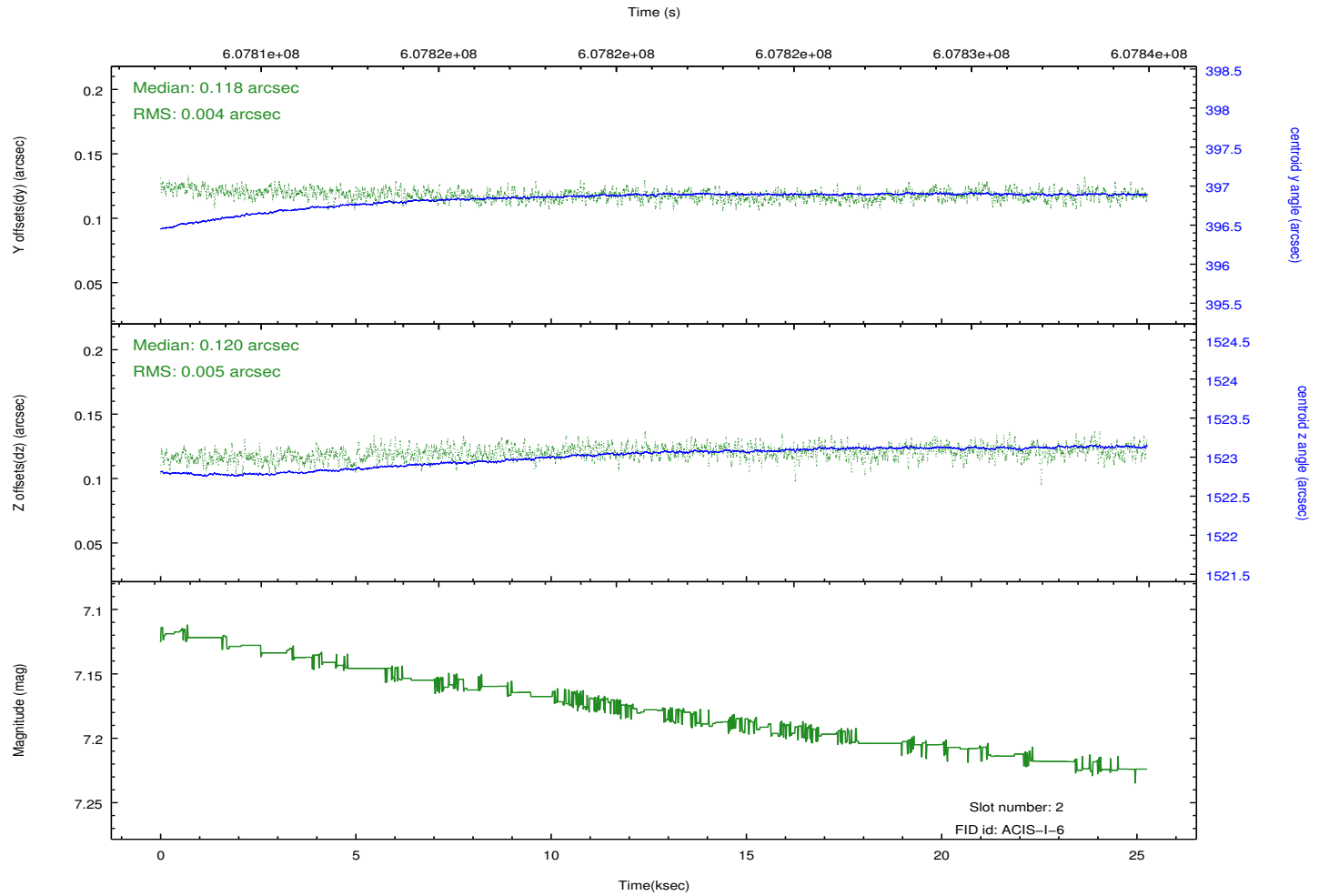
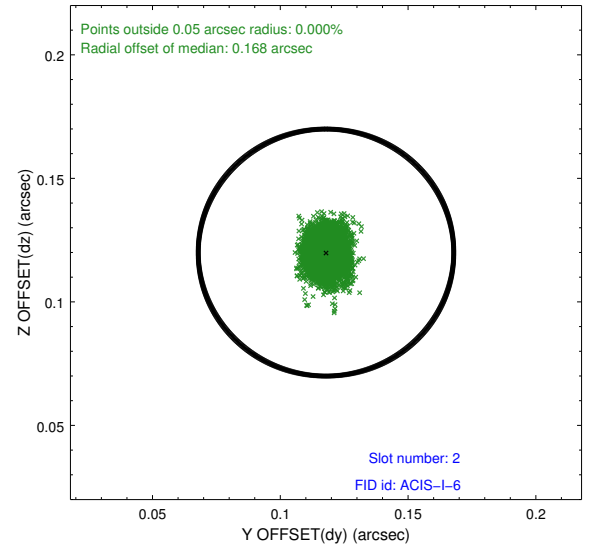
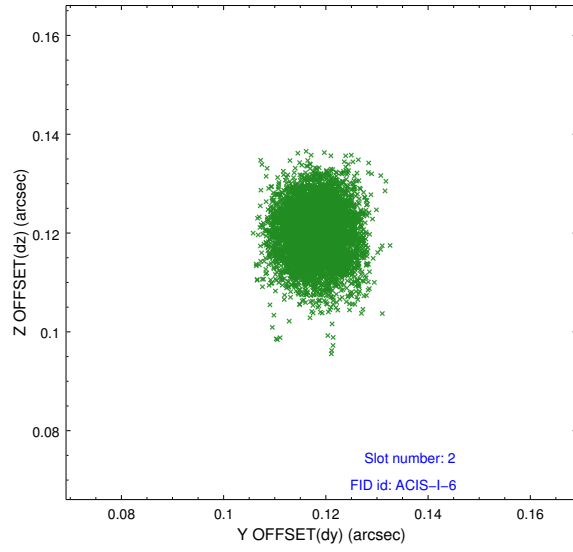
2.5.1 Slot 0



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)	2017.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.181118885279

A.2 Comments

Window preference met.

One optional chip was dropped.