

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15201 - L2 Version 2
Chandra X-Ray Center

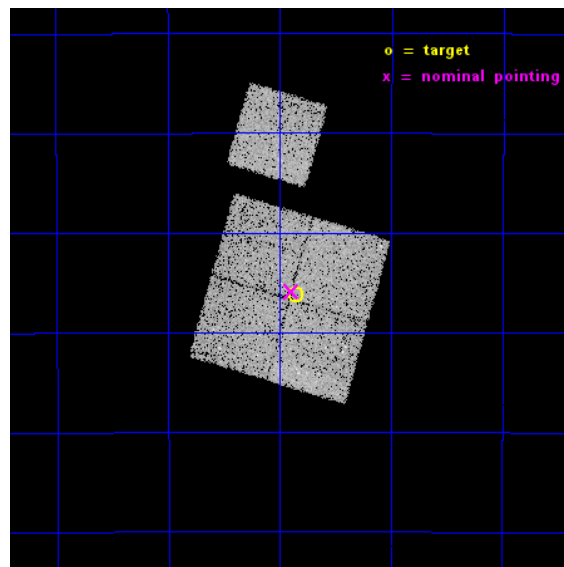
L2 Processing Date : Dec 2 2014

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1 Front

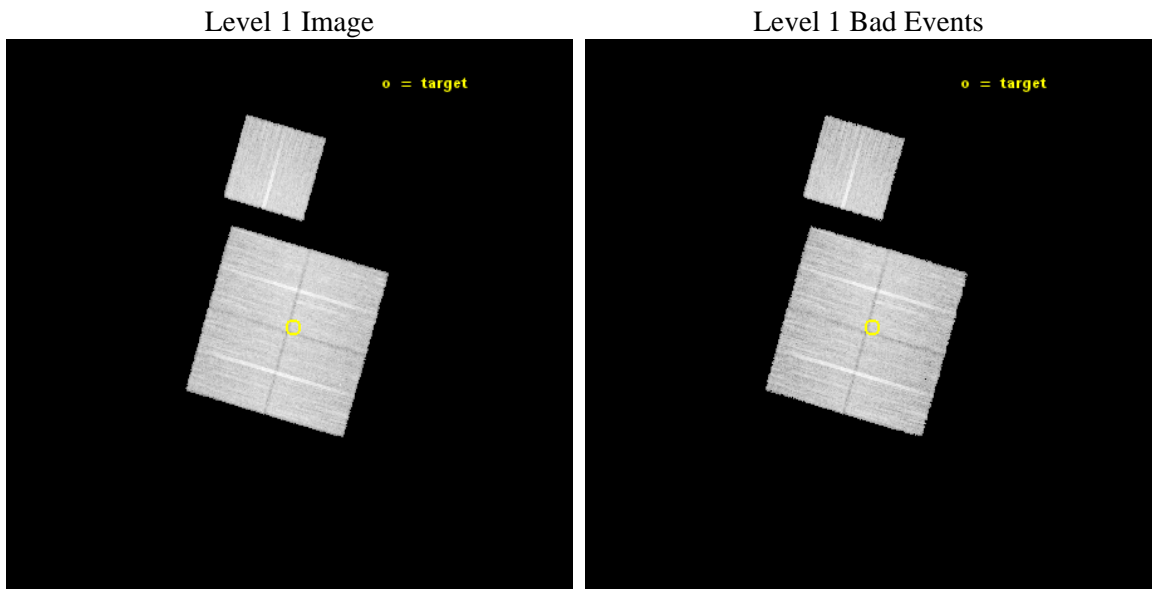
seq_num	901031	Sequence number
obs_id	15201	Observation id
title	Studying Giant Filamentary Lobes of Centaurus A	Proposal title
observer	Dr. Yasuyuki Tanaka	Principal investigator
object	Cen A Northern Lobe 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.465	Observer's specified target RA [deg]
dec_targ	-38.936	Observer's specified target Dec [deg]
ra_nom	201.47365181823	Nominal RA [deg]
dec_nom	-38.931510934991	Nominal Dec [deg]
roll_nom	16.214133845079	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20081.800154448	Sum of GTIs [s]
livetime	19819.416651424	Livetime [s]
ontime0	20081.800154448	Sum of GTIs [s]
ontime1	20081.800154448	Sum of GTIs [s]
ontime2	20075.518183708	Sum of GTIs [s]
ontime3	20081.800154448	Sum of GTIs [s]
ontime6	20081.800154448	Sum of GTIs [s]
l2events	55777	Number of level 2 events



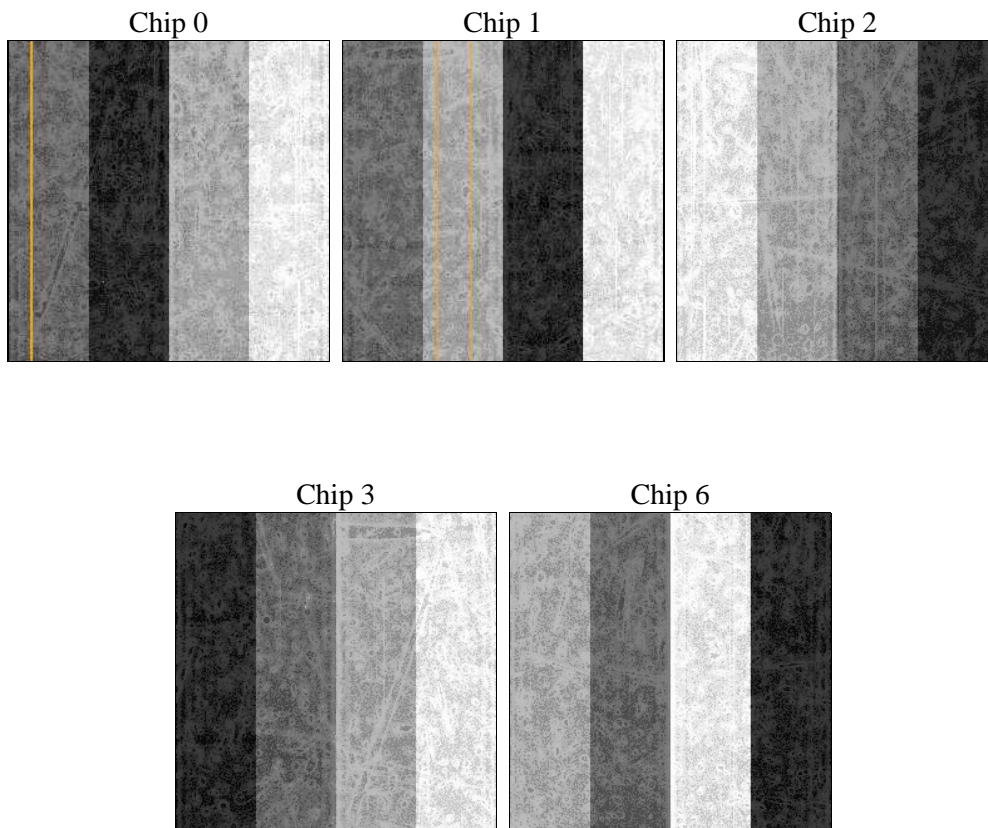
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20081.800154448	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	20081.800154448	Sum of GTIs [s]
date	2014-12-02T15:41:36	Date and time of file creation	ontime1	20081.800154448	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20075.518183708	Sum of GTIs [s]
			ontime3	20081.800154448	Sum of GTIs [s]
			ontime6	20081.800154448	Sum of GTIs [s]
			l1events	515911	Number of level 1 events

2.1.4 Events

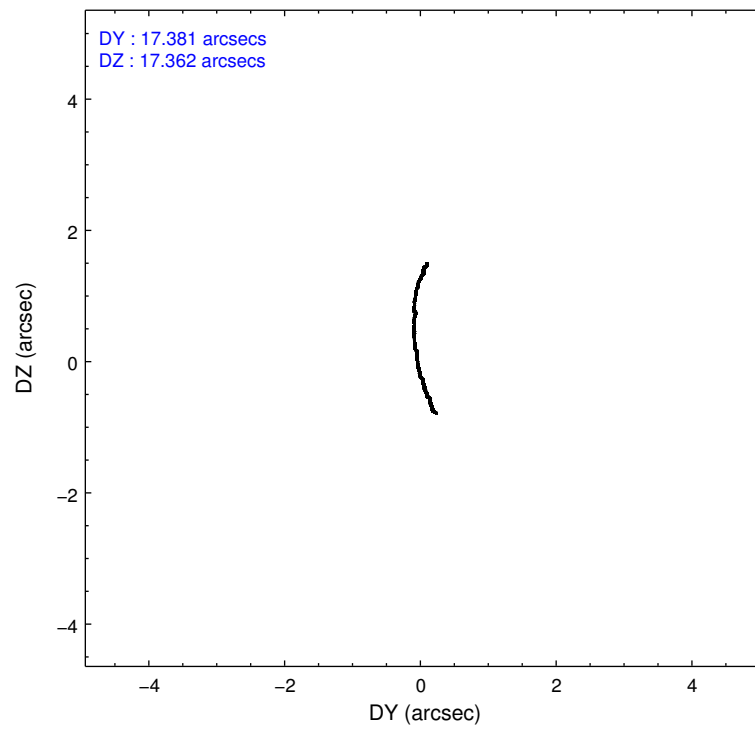
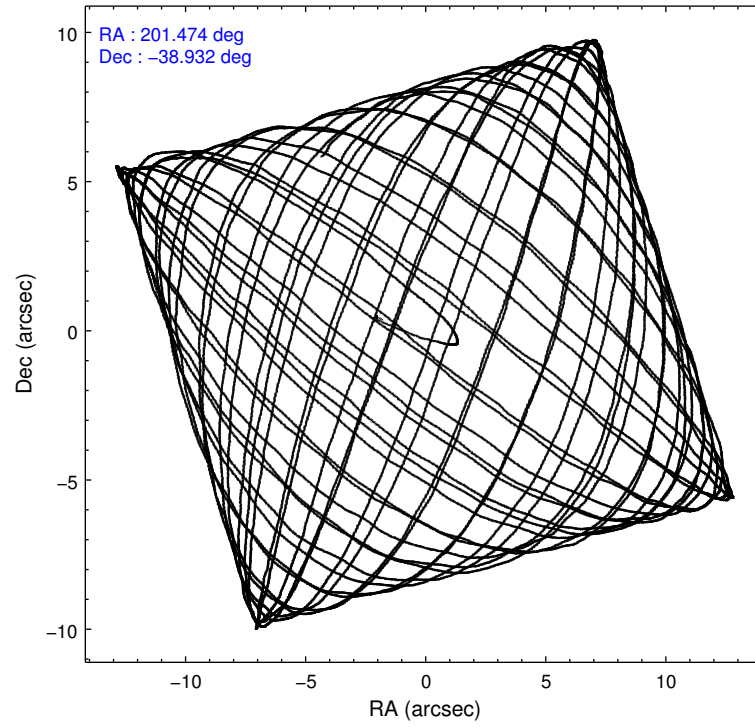
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	97076	99664	106930	104772	107469
rejected events	84049	85039	94313	92458	94202
rejected %	86%	85%	88%	88%	87%

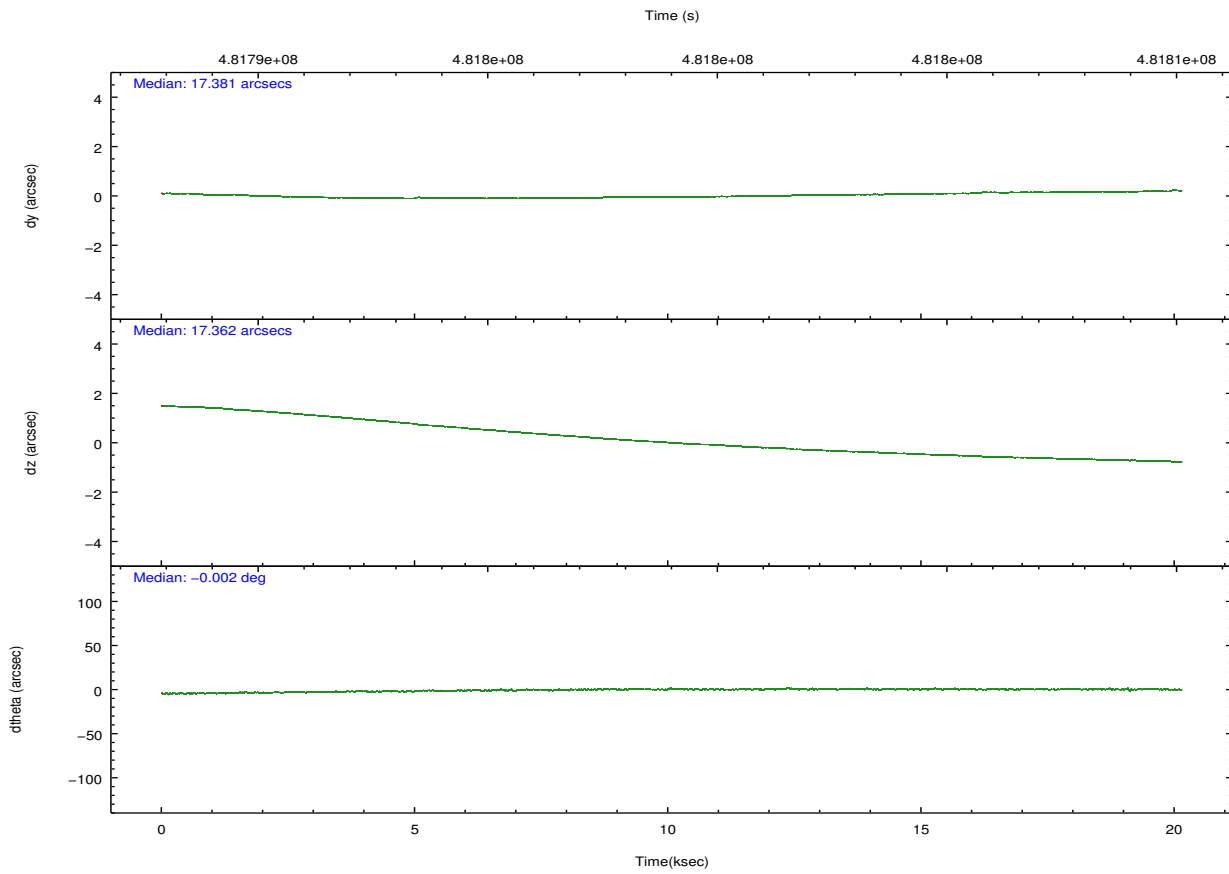
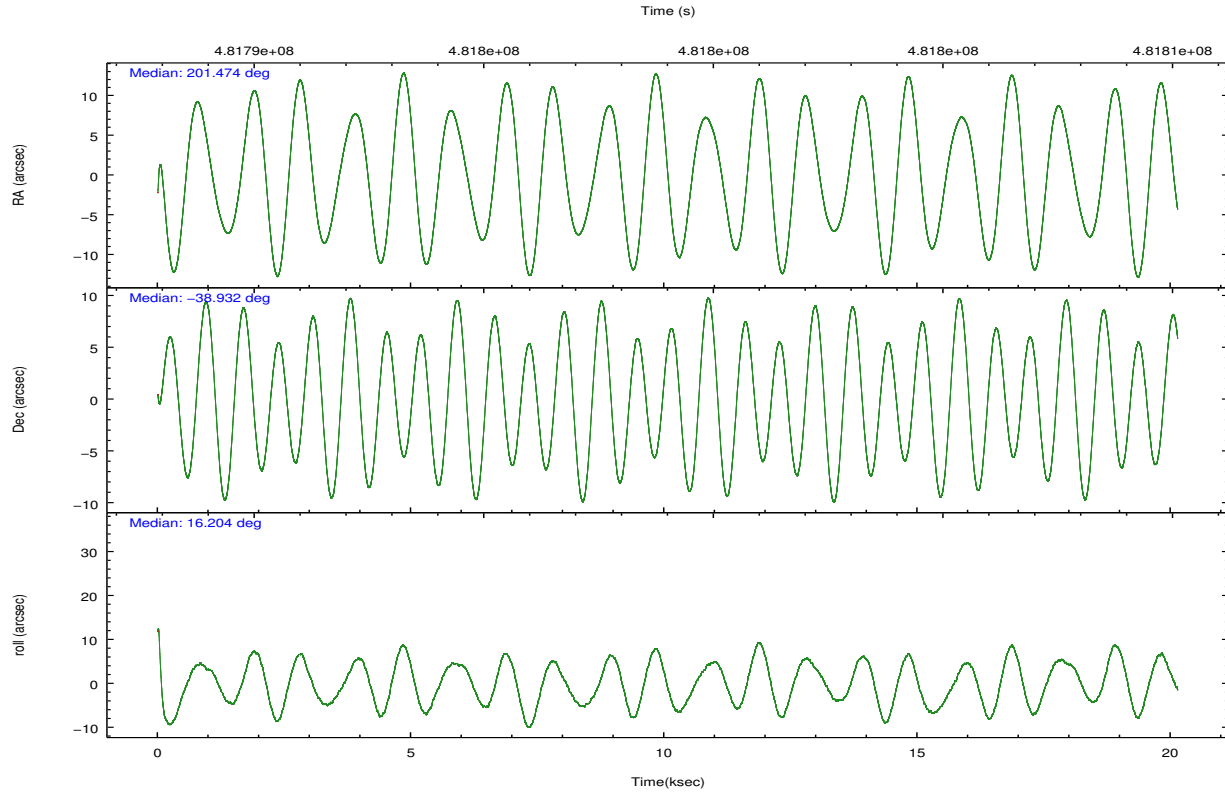
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4656	5324	4735	4458	4686
	4%	5%	4%	4%	4%
grade 1 events	64	62	60	73	48
	0%	0%	0%	0%	0%
grade 2 events	3115	3443	3119	2748	2942
	3%	3%	2%	2%	2%
grade 3 events	1365	1400	1226	1290	1364
	1%	1%	1%	1%	1%
grade 4 events	1239	1416	1225	1270	1328
	1%	1%	1%	1%	1%
grade 5 events	5030	5363	4583	5708	5631
	5%	5%	4%	5%	5%
grade 6 events	2653	3043	2314	2550	2950
	2%	3%	2%	2%	2%
grade 7 events	78954	79613	89668	86675	88520
	81%	79%	83%	82%	82%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	201.449298	201.4736518182347	Subarray requested	NONE	NONE
[deg] Pointing Dec	-38.951463	-38.9315109349912	Alternating exposures requested	N	N
[deg] Pointing Roll	15.990130	16.21413384507861	[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)	481789076.184000	481787766.3077			
Observation start date	2013-04-08T06:16:49	2013-04-08T05:56:06			
[s] Observation end time (MET)	481809076.184000	481810431.10893			
Observation end date	2013-04-08T11:50:09	2013-04-08T12:13:51			
Read mode	TIMED	TIMED			

2.3 Aspect





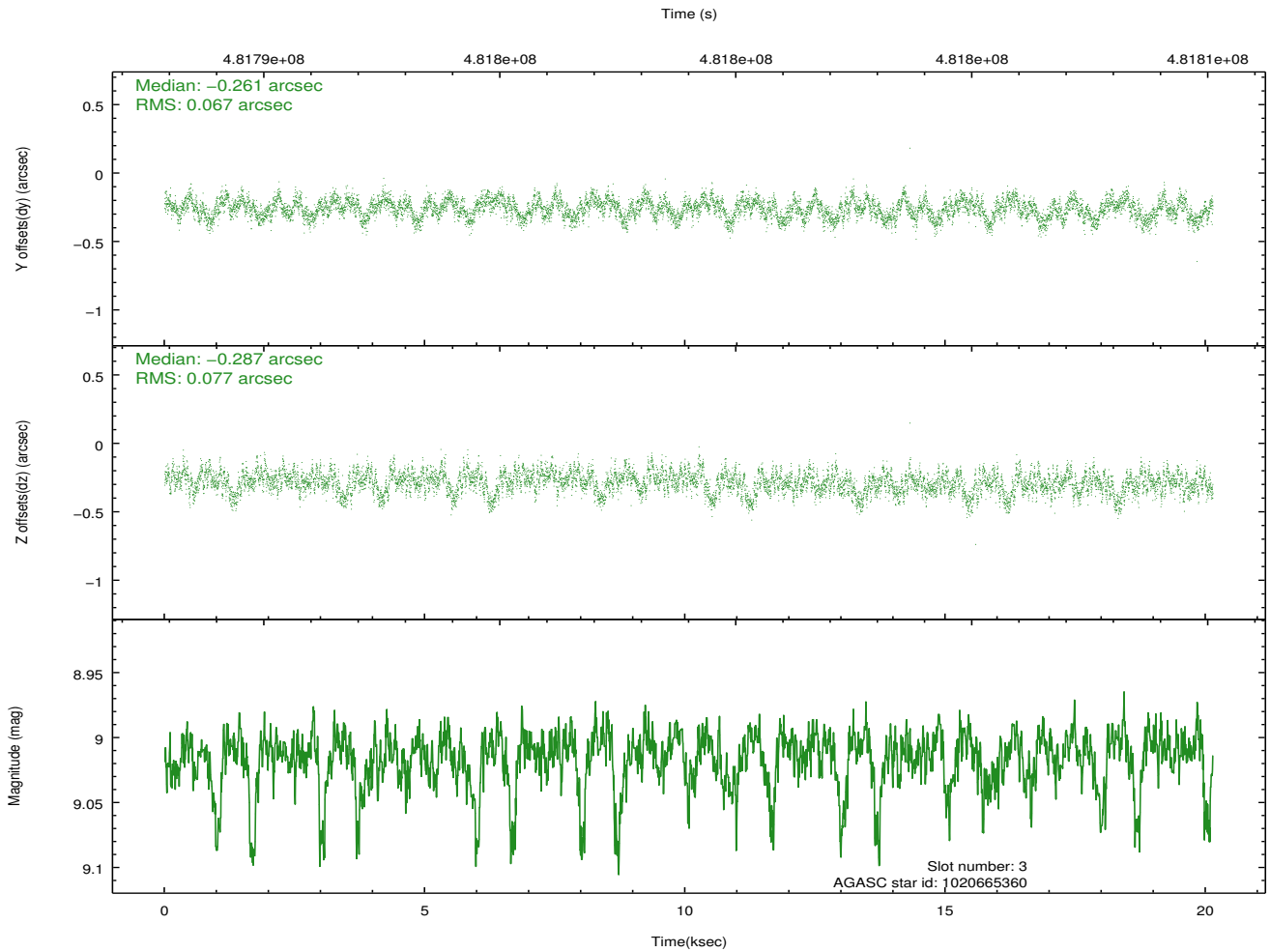
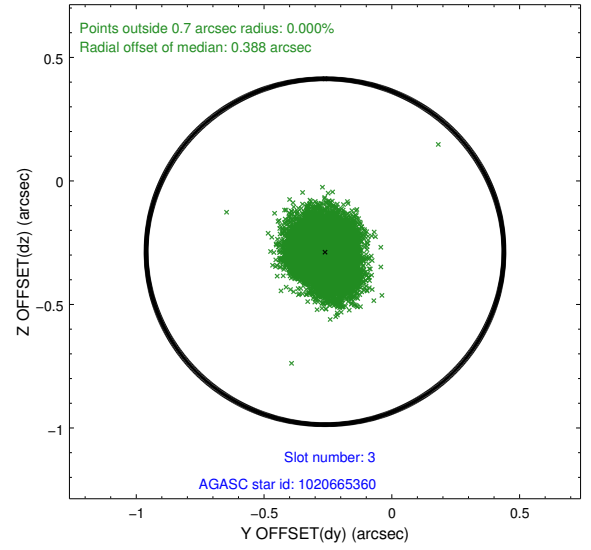
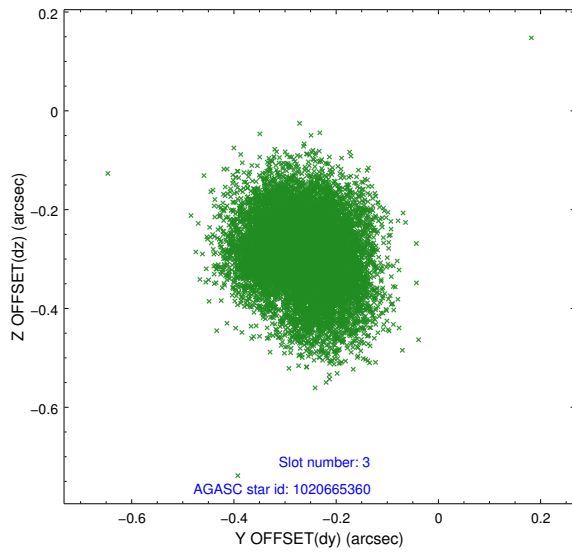
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	4912	0.053	0.004	0.026	0.049	0.000000	0.000000	922.04	-841.18
1	FID		ACIS-I-5	7.06	4911	-0.223	0.058	0.011	0.021	0.000000	0.000000	-1826.23	1056.27
2	FID		ACIS-I-6	7.07	4912	0.081	0.005	0.022	0.031	0.000000	0.000000	387.42	1700.93
3	GUIDE	used	1020665360	9.01	9814	-0.261	-0.287	0.109	0.173	201.281468	-38.403817	87.29	2025.15
4	GUIDE	used	1020668960	8.97	9820	0.192	-0.100	0.084	0.137	200.635607	-38.695184	-1946.45	1506.87
5	GUIDE	used	1021192800	9.21	9815	0.091	0.003	0.108	0.180	201.897023	-39.498018	652.48	-2236.90
6	GUIDE	used	1020668224	8.75	9798	-0.036	0.086	0.106	0.178	201.999569	-39.291136	1136.16	-1602.10
7	GUIDE	used	1021184096	7.75	9822	0.005	0.303	0.075	0.118	200.846796	-39.627951	-2277.86	-1886.45

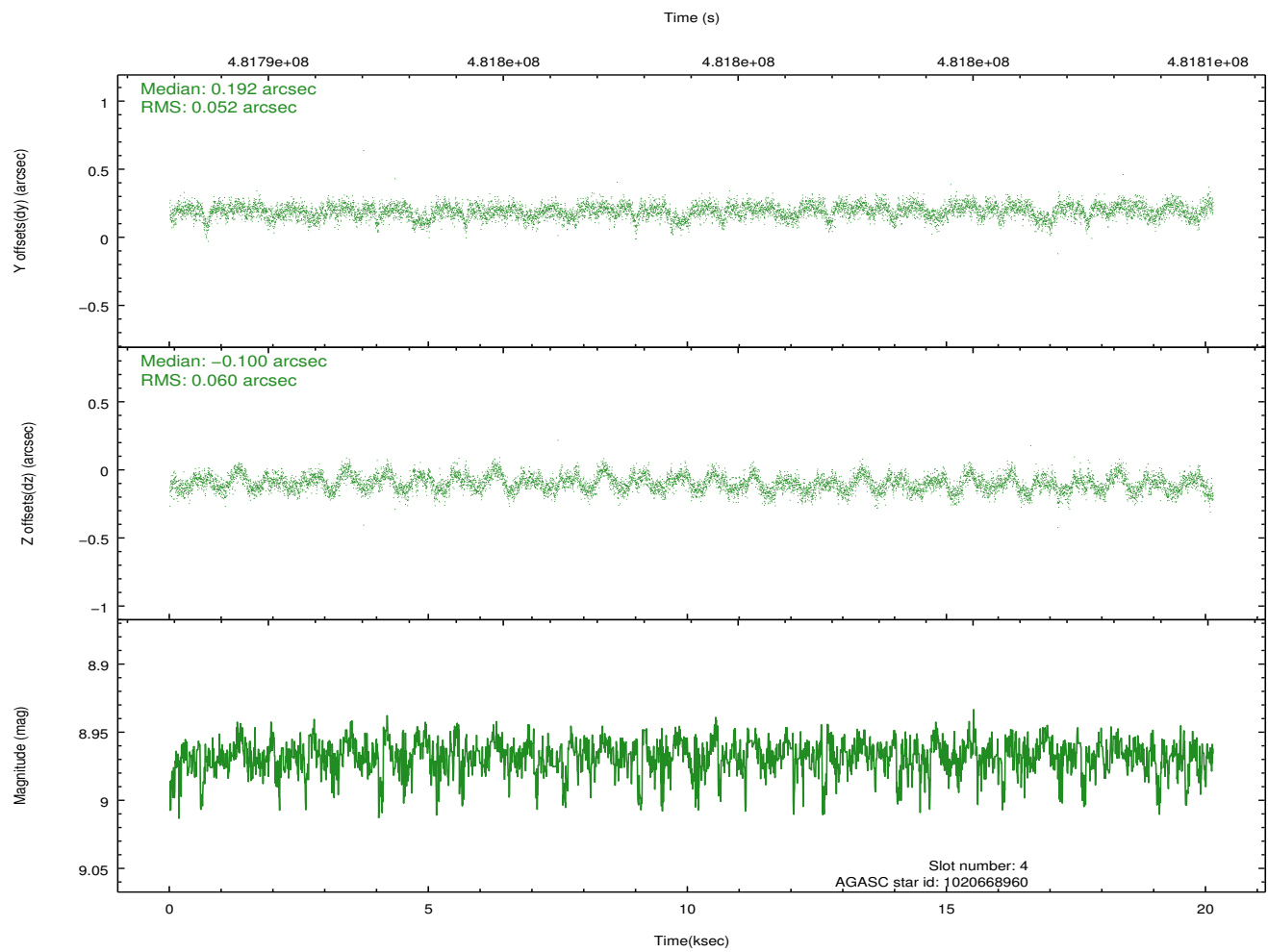
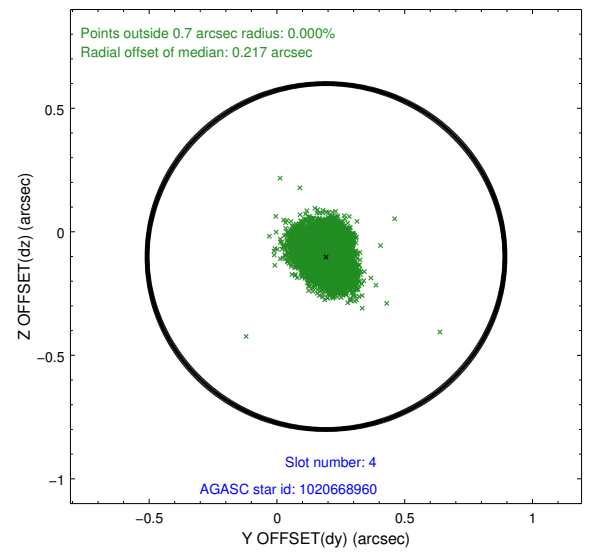
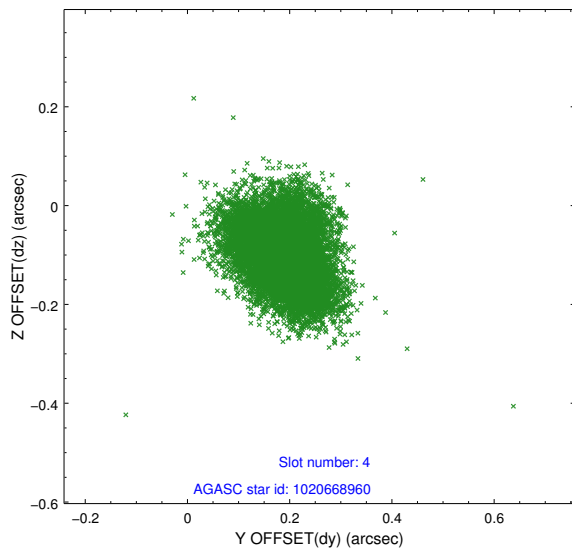
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2.4 Star Slots

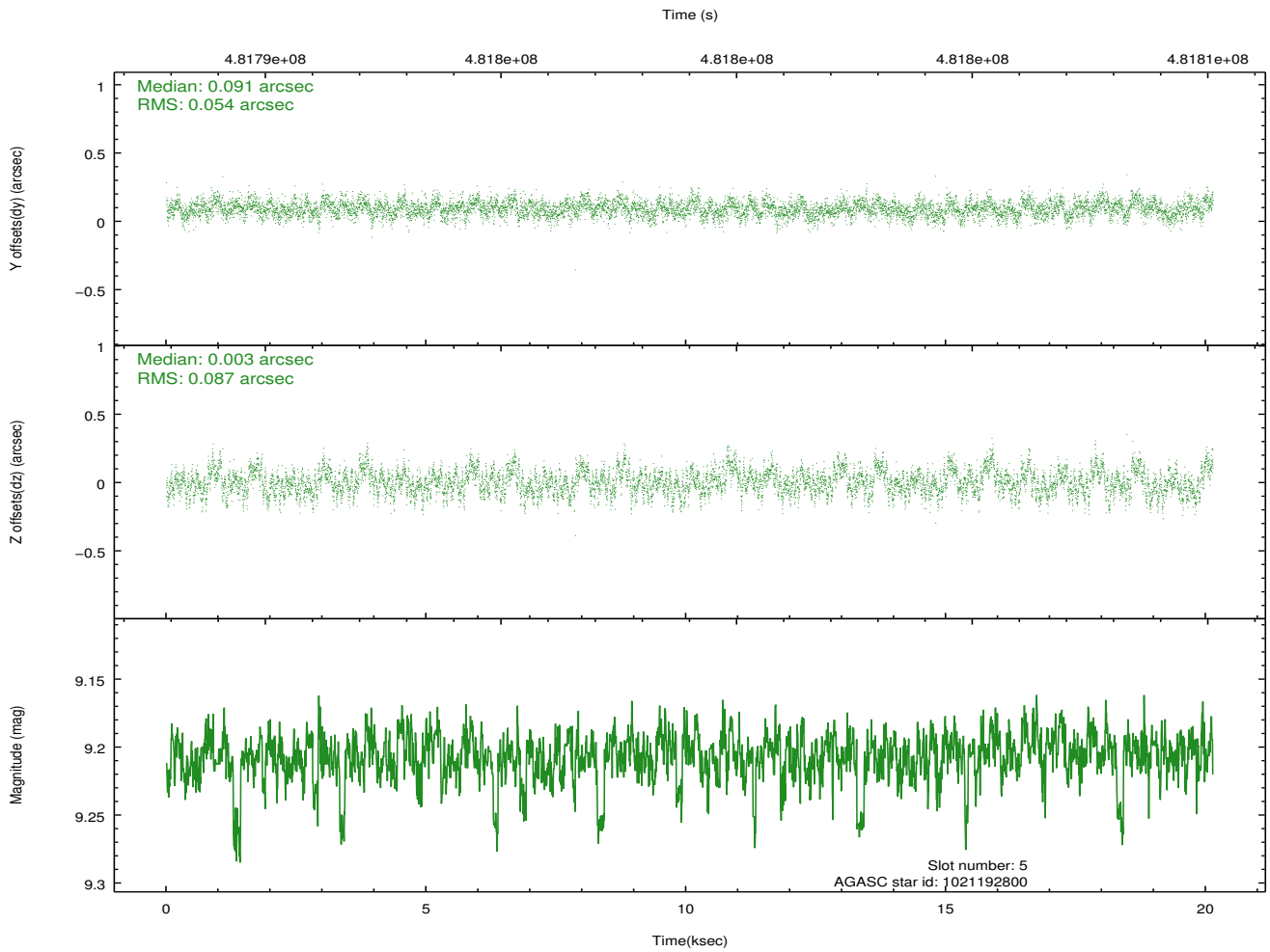
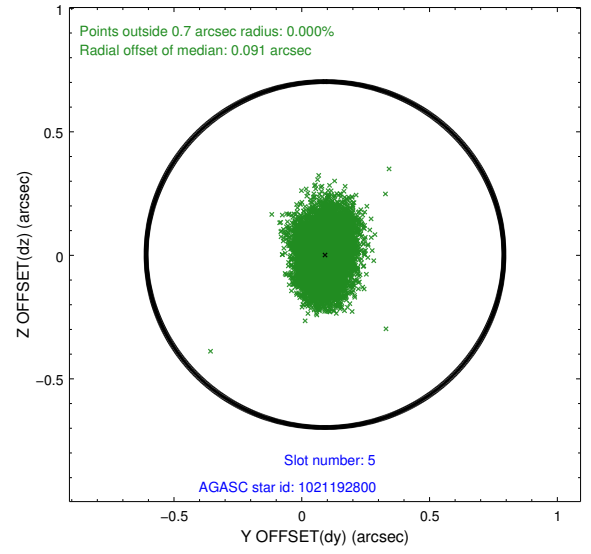
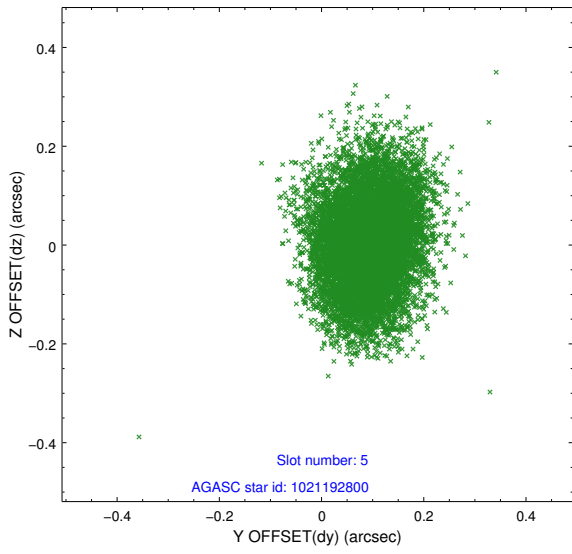
2.4.1 Slot 3



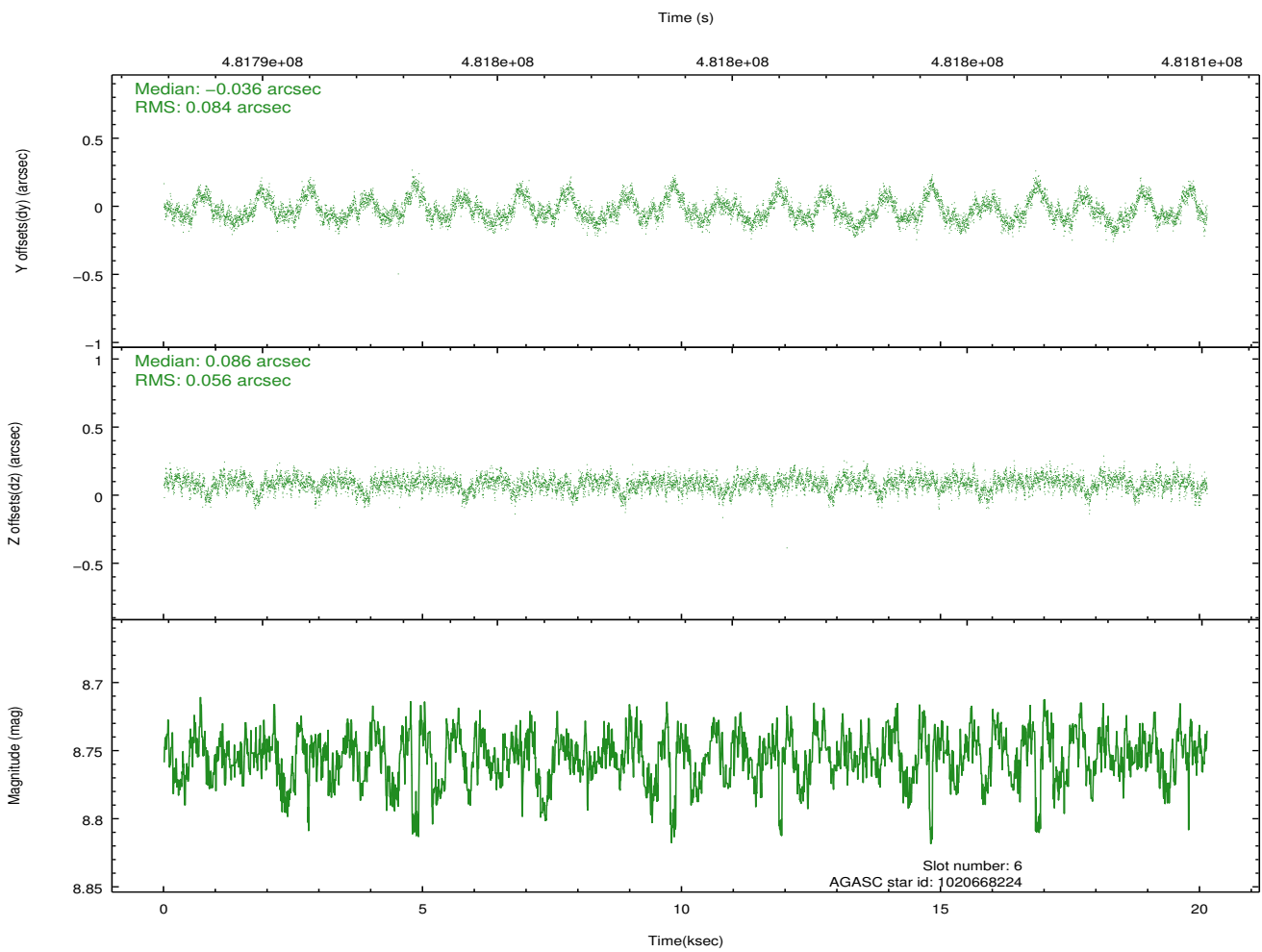
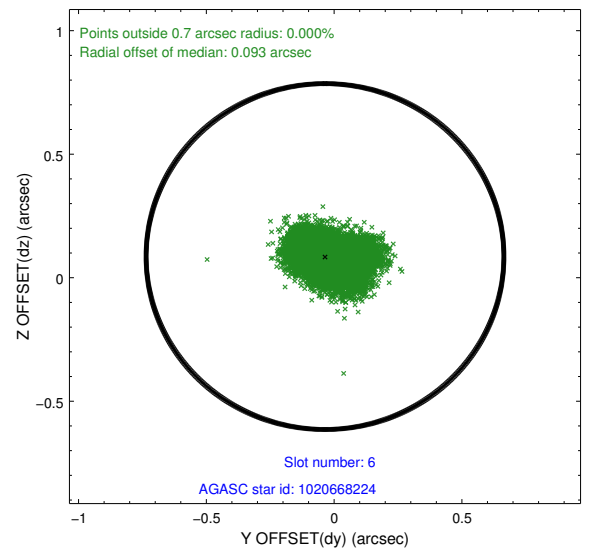
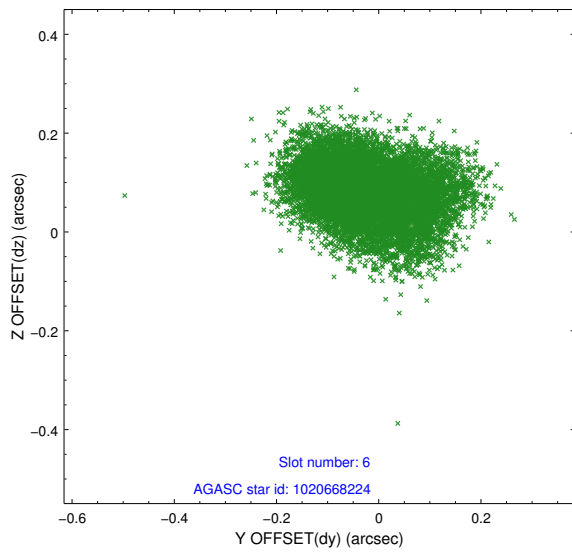
2.4.2 Slot 4



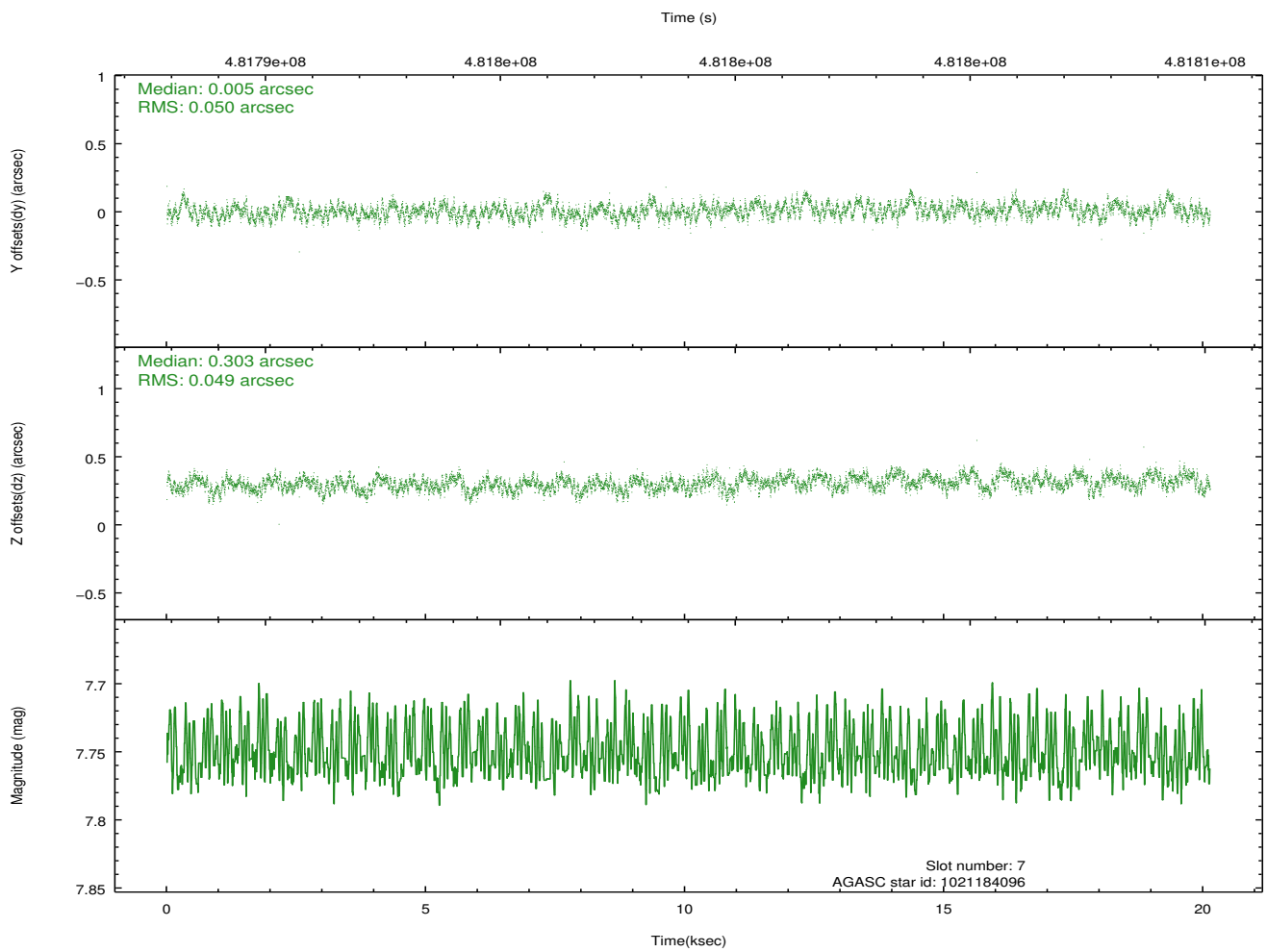
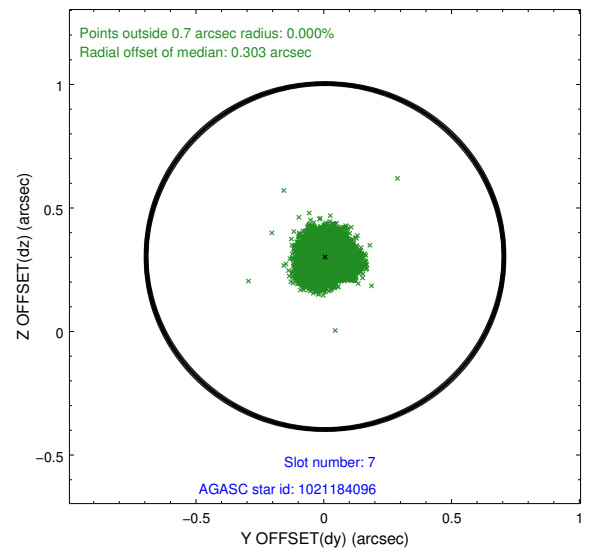
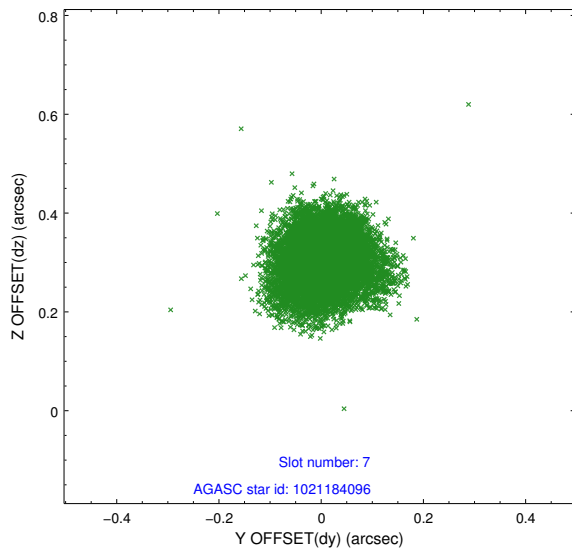
2.4.3 Slot 5



2.4.4 Slot 6

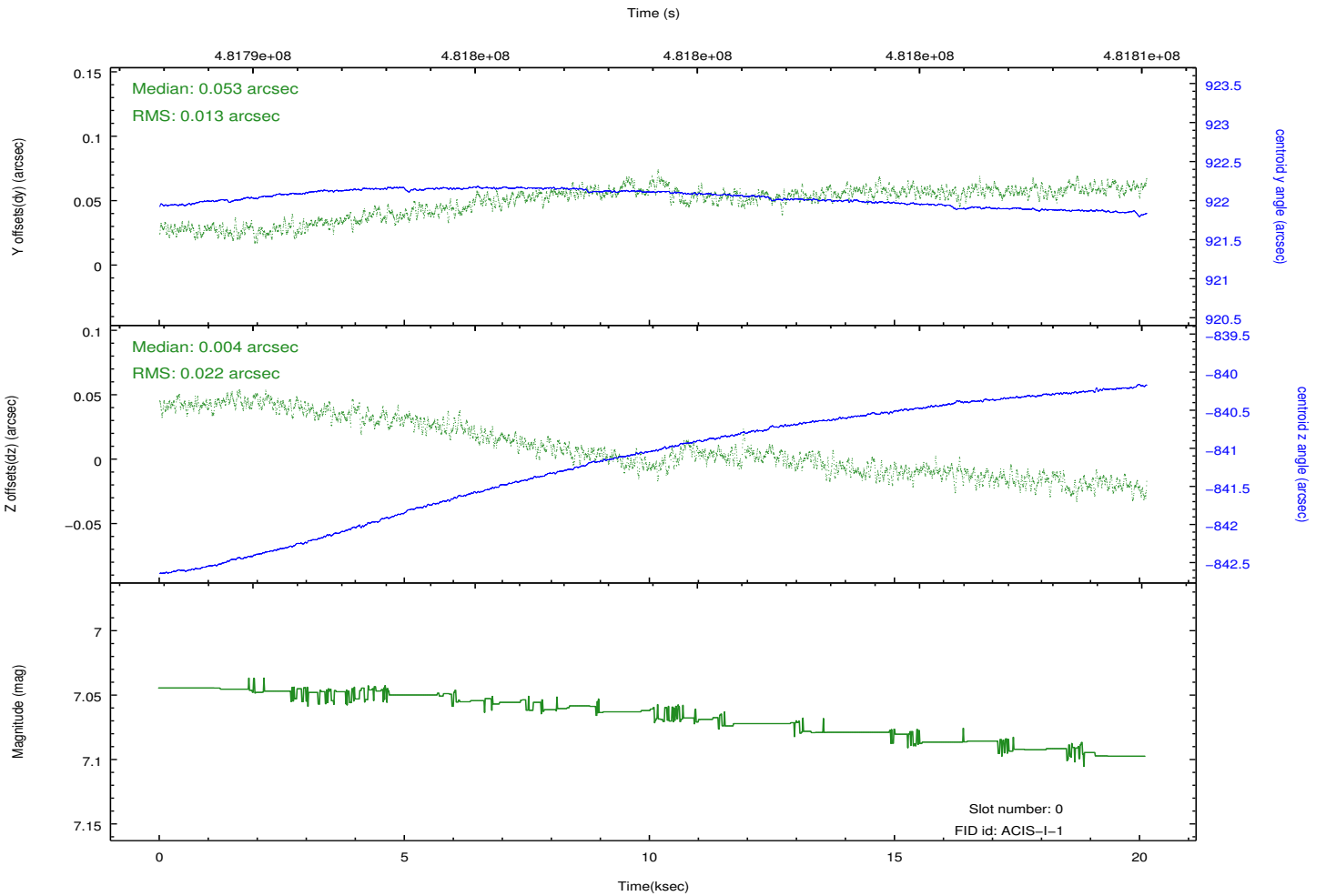
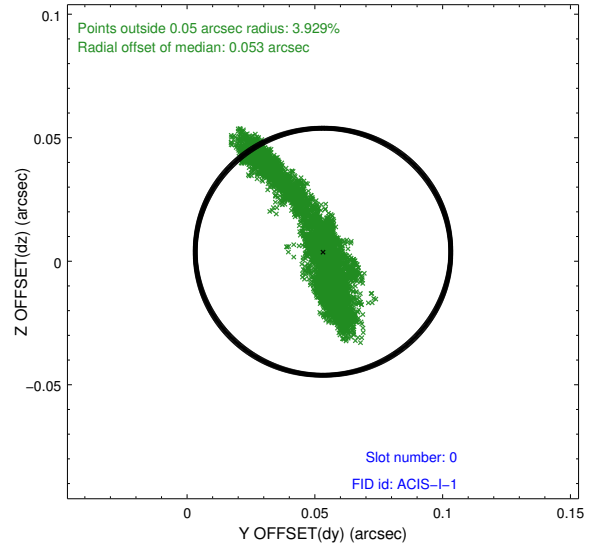
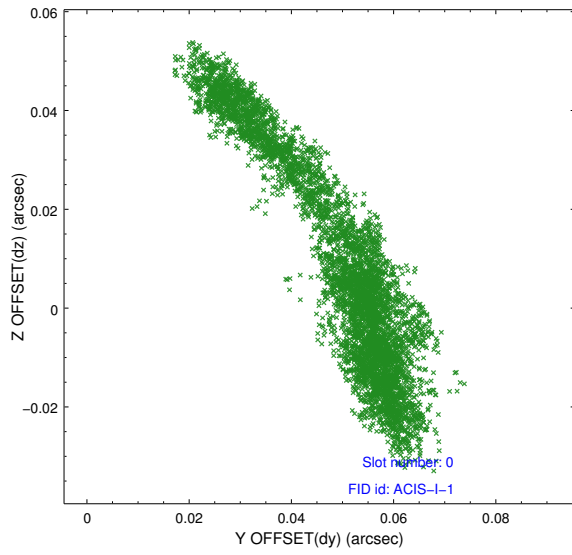


2.4.5 Slot 7

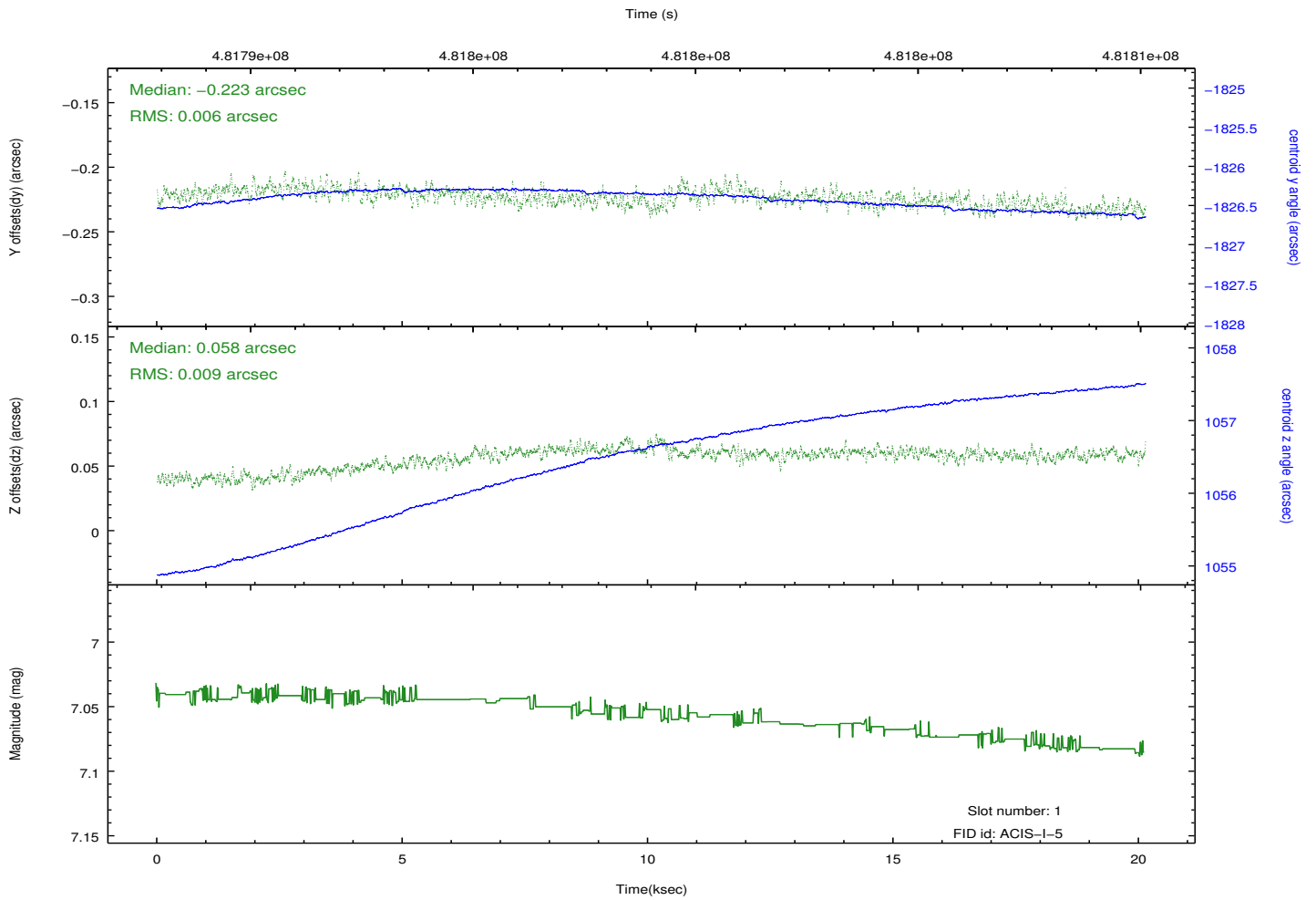
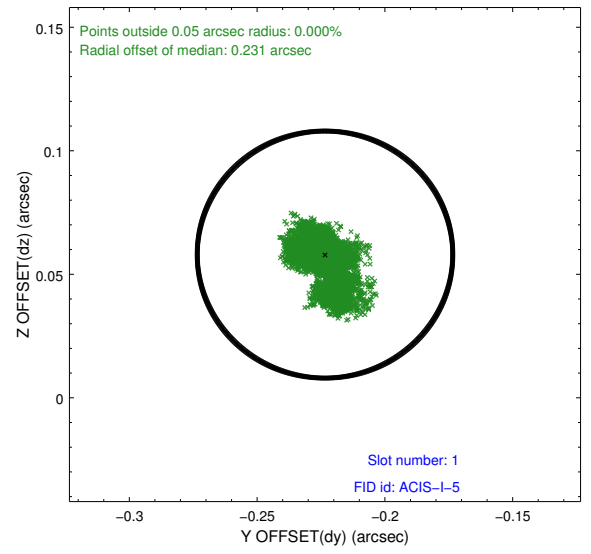
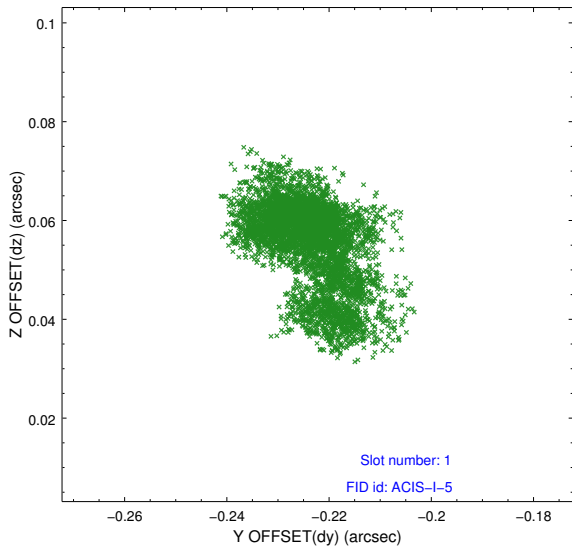


2.5 FID Slots

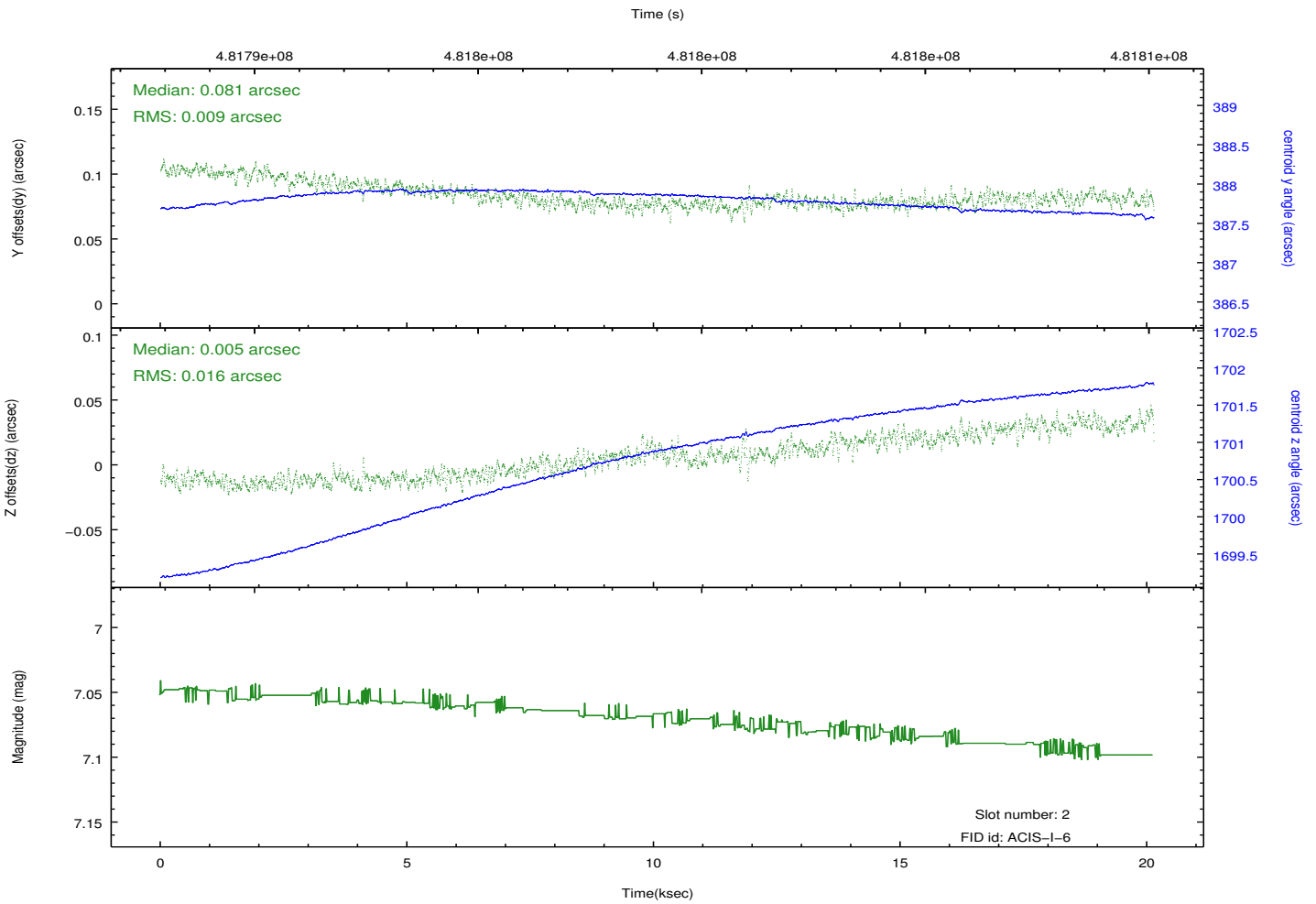
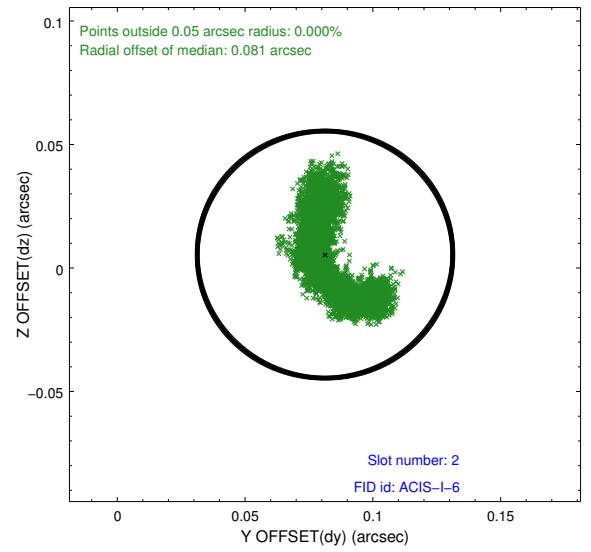
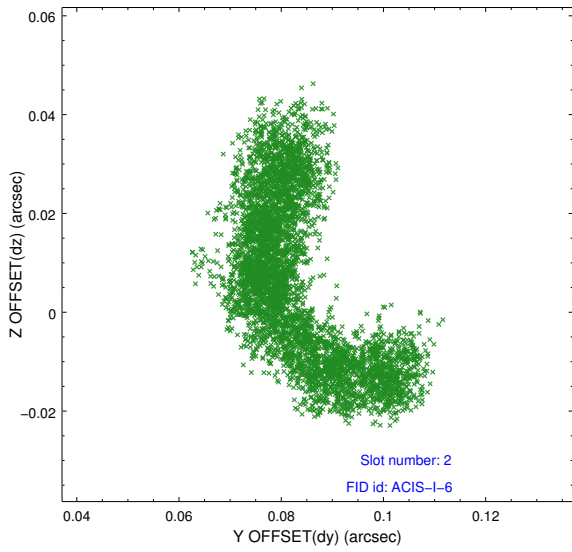
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.081800154448

A.2 Comments

Joint proposal with Suzaku.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.