

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18704 - L2 Version 1
Chandra X-Ray Center

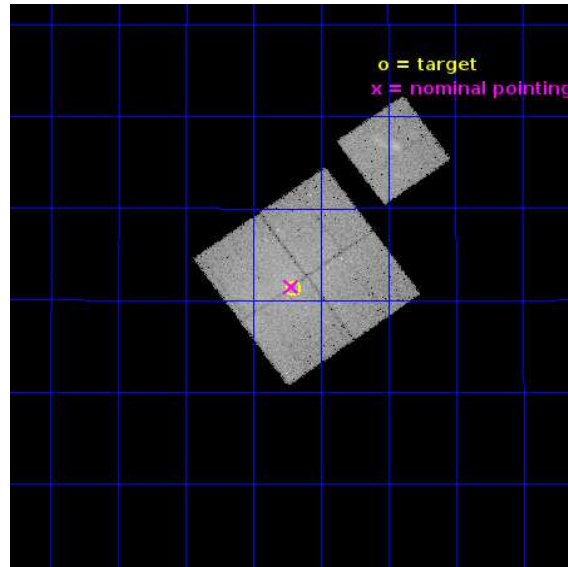
L2 Processing Date : Nov 9 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

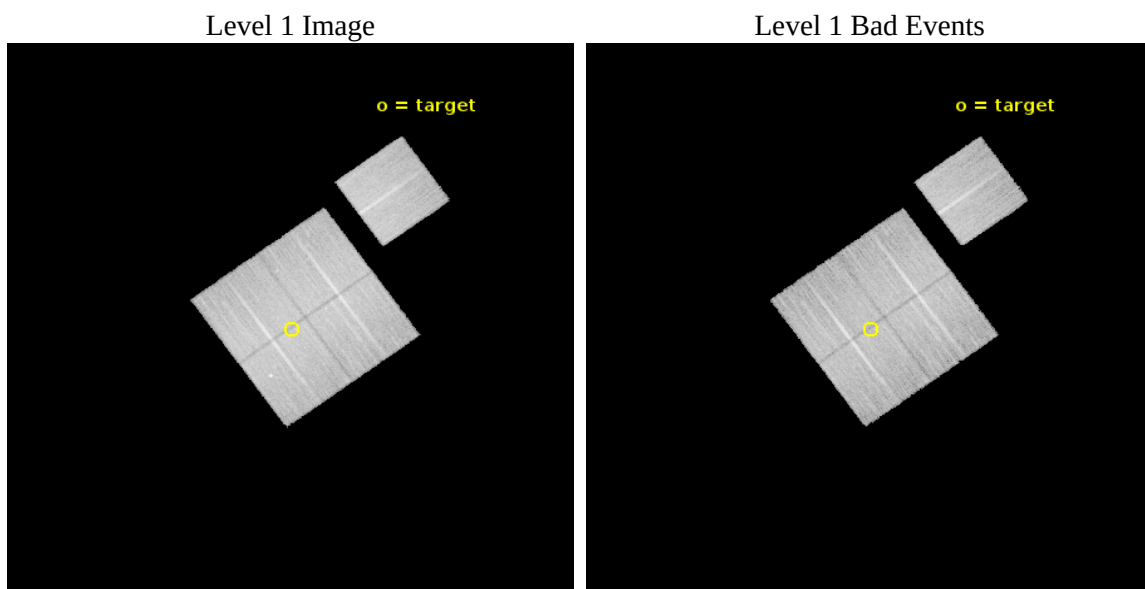
seq_num	801481	Sequence number
obs_id	18704	Observation id
title	Probing the Physics of the ICM in the Dynamically Young Cluster A1367	Proposal title
observer	Dr. William Forman	Principal investigator
object	Abell 1367	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.17509	Observer's specified target RA [deg]
dec_targ	19.688654	Observer's specified target Dec [deg]
ra_nom	176.17932153643	Nominal RA [deg]
dec_nom	19.691252754073	Nominal Dec [deg]
roll_nom	54.207268792298	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27383.965907693	Sum of GTIs [s]
livetime	27026.174233326	Livetime [s]
ontime0	27383.924867749	Sum of GTIs [s]
ontime1	27383.965907693	Sum of GTIs [s]
ontime2	27377.724987149	Sum of GTIs [s]
ontime3	27377.765997052	Sum of GTIs [s]
ontime6	27380.742837548	Sum of GTIs [s]
l2events	137356	Number of level 2 events



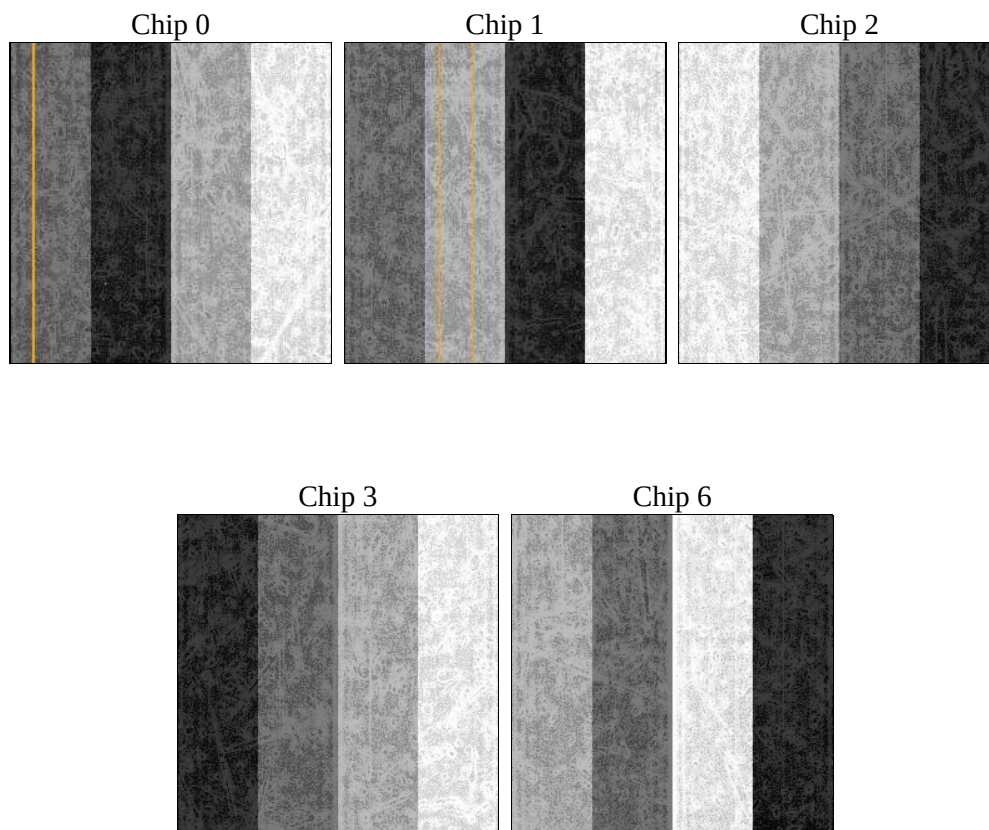
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27324.664000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	27383.965907693	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	27383.924867749	Sum of GTIs [s]
date	2015-11-09T15:37:09	Date and time of file creation	ontime1	27383.965907693	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	27377.724987149	Sum of GTIs [s]
			ontime3	27377.765997052	Sum of GTIs [s]
			ontime6	27380.742837548	Sum of GTIs [s]
			l1events	772789	Number of level 1 events

2.1.4 Events

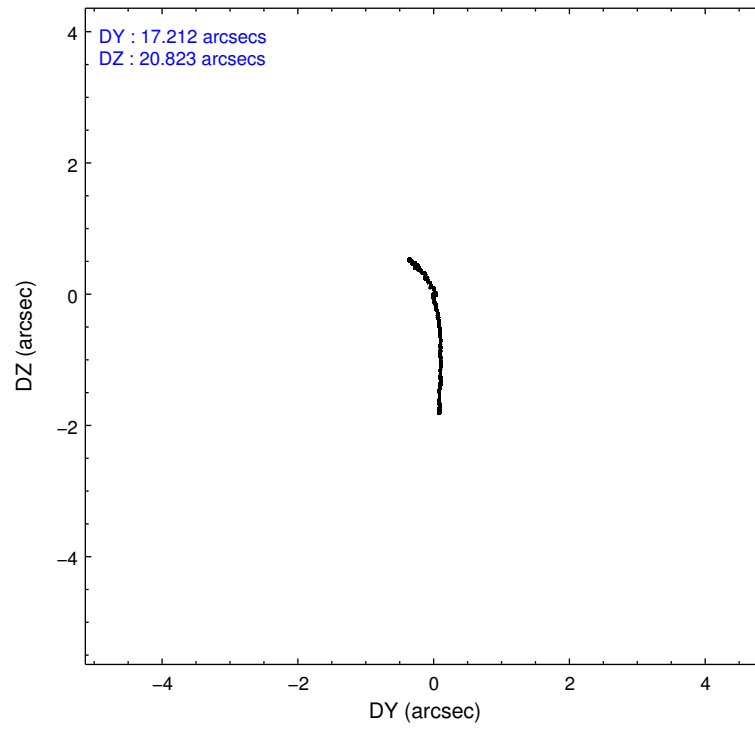
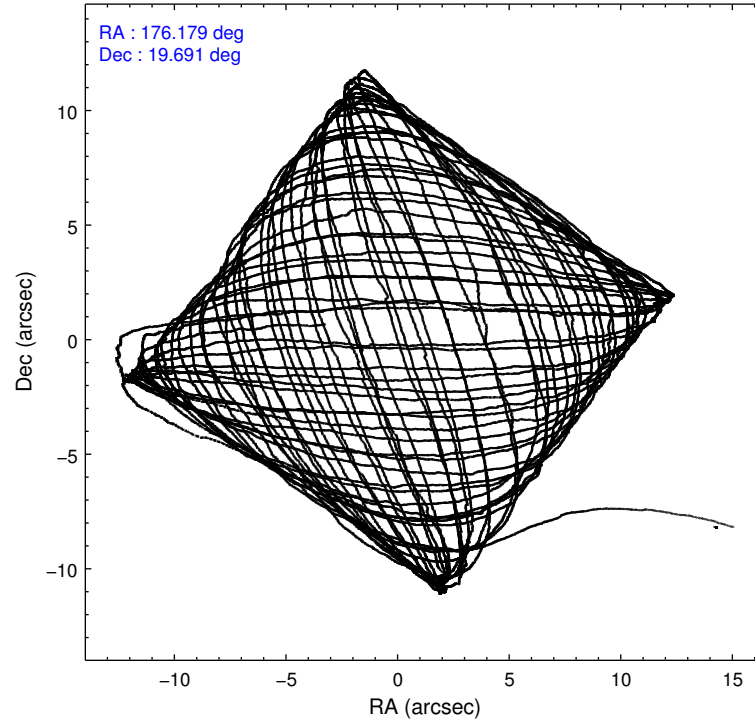
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	155768	153317	157443	150453	155808
rejected events	119320	119368	126173	123986	128857
rejected %	76%	77%	80%	82%	82%

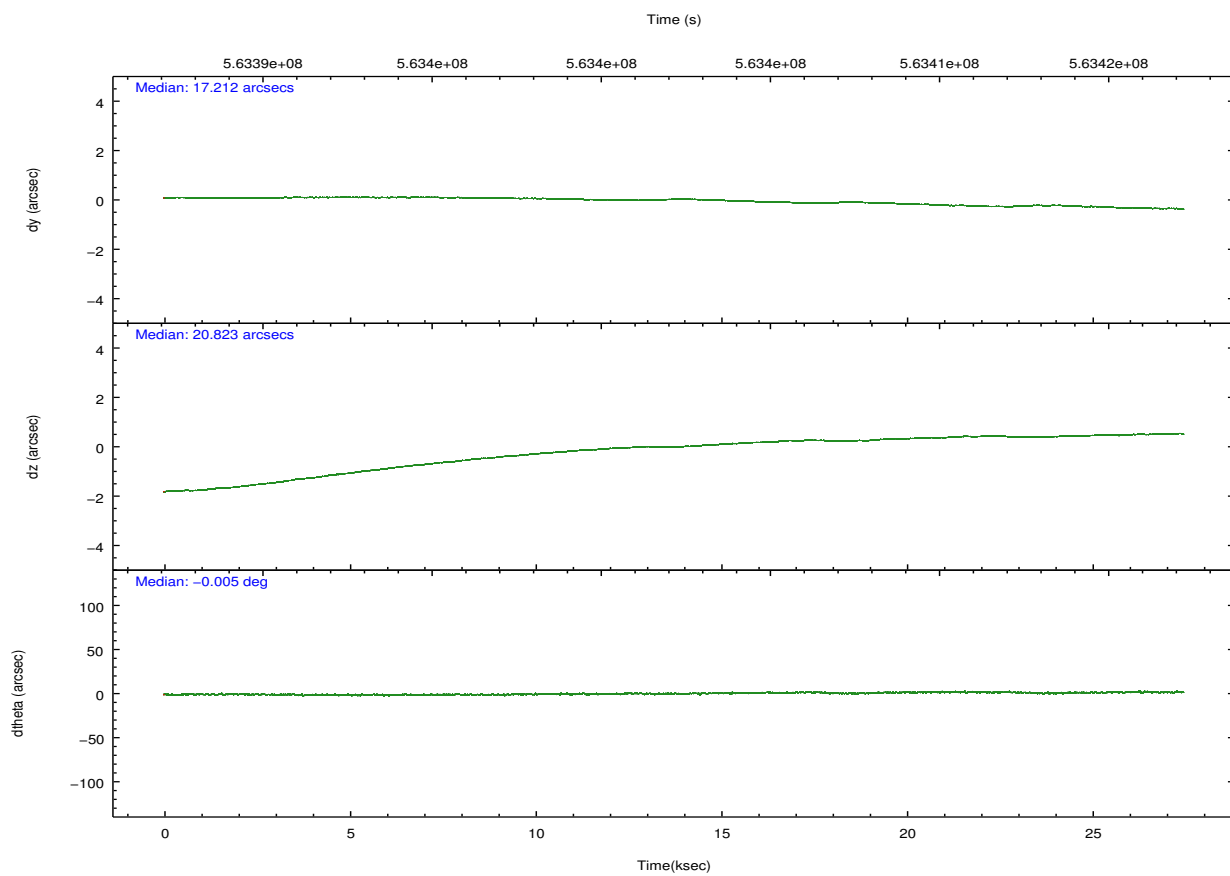
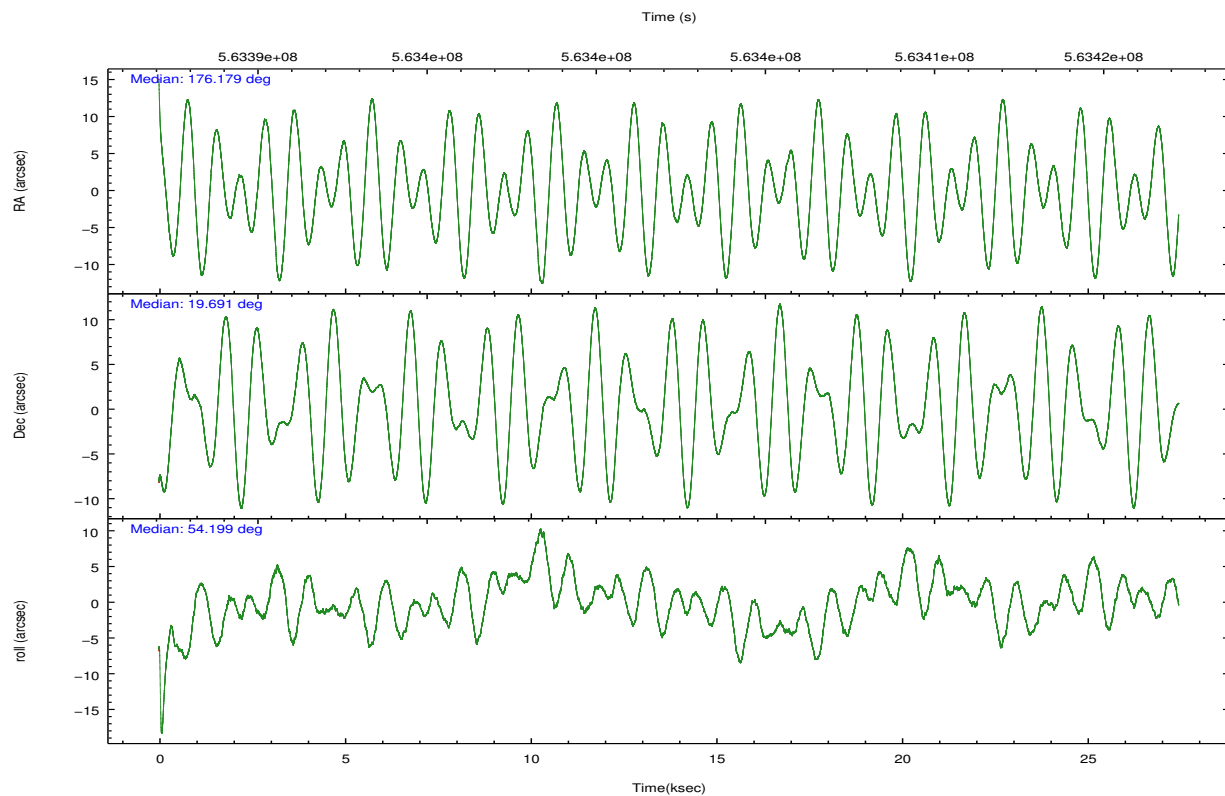
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	21543	18778	17979	14248	13556
	13%	12%	11%	9%	8%
grade 1 events	148	130	134	122	100
	0%	0%	0%	0%	0%
grade 2 events	6244	6340	5527	4628	5014
	4%	4%	3%	3%	3%
grade 3 events	2434	2167	2076	1984	2001
	1%	1%	1%	1%	1%
grade 4 events	2241	2229	2118	1988	1998
	1%	1%	1%	1%	1%
grade 5 events	6670	6938	6130	7473	7394
	4%	4%	3%	4%	4%
grade 6 events	3992	4438	3573	3623	4391
	2%	2%	2%	2%	2%
grade 7 events	112496	112297	119906	116387	121354
	72%	73%	76%	77%	77%

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	176.176483	176.1793215364301	CCD I2 on	Y	Y
[deg] Pointing Dec	19.663811	19.69125275407281	CCD I3 on	Y	Y
[deg] Pointing Roll	53.999533	54.20726879229835	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	-241.592463	-241.5930143809957	CCD S3 on	N	N
[mm] SIM translation stage offset	8	8.000561378066038	CCD S4 on	N	N
[s] Observation start time (MET)	563388526.184000	563387313.34128	CCD S5 on	N	N
Observation start date	2015-11-08T16:47:38	2015-11-08T16:28:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	563415850.184000	563416083.04291	On-chip summing requested	N	N
Observation end date	2015-11-09T00:23:02	2015-11-09T00:28:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



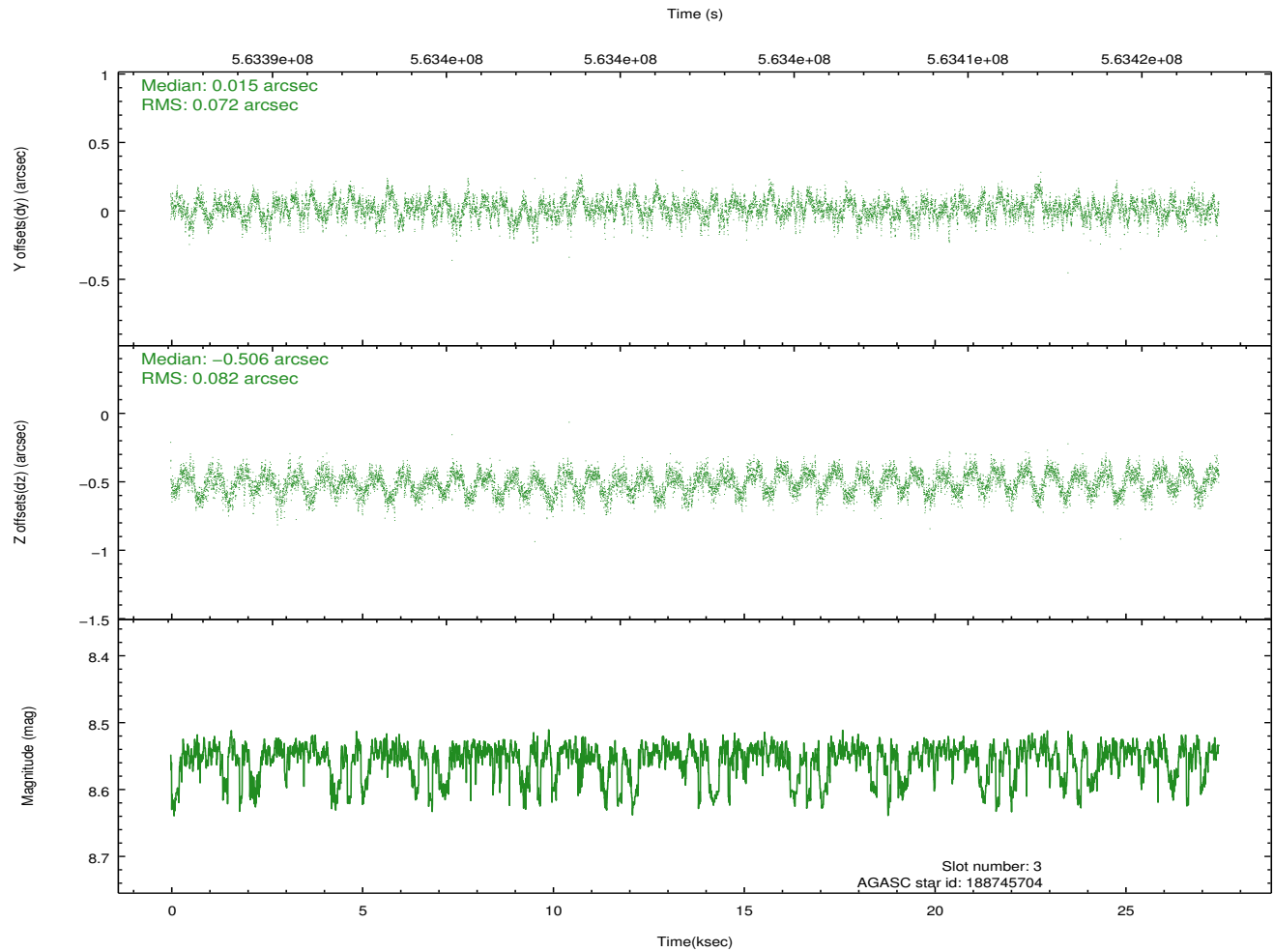
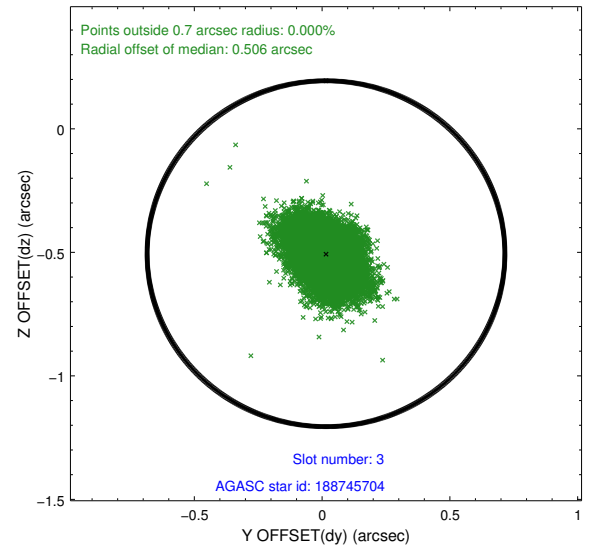
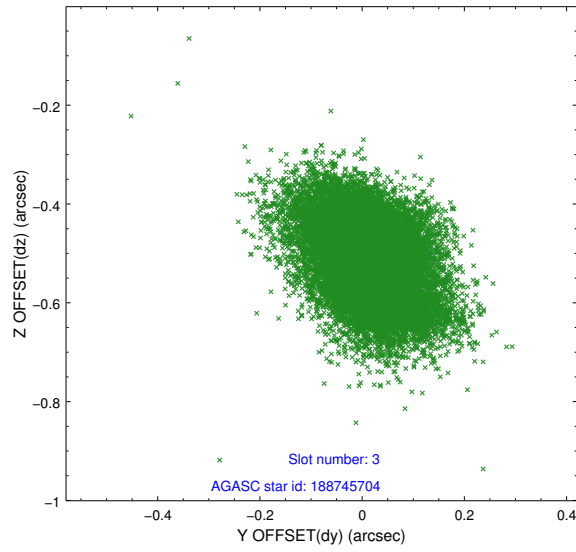


Slot Statistics

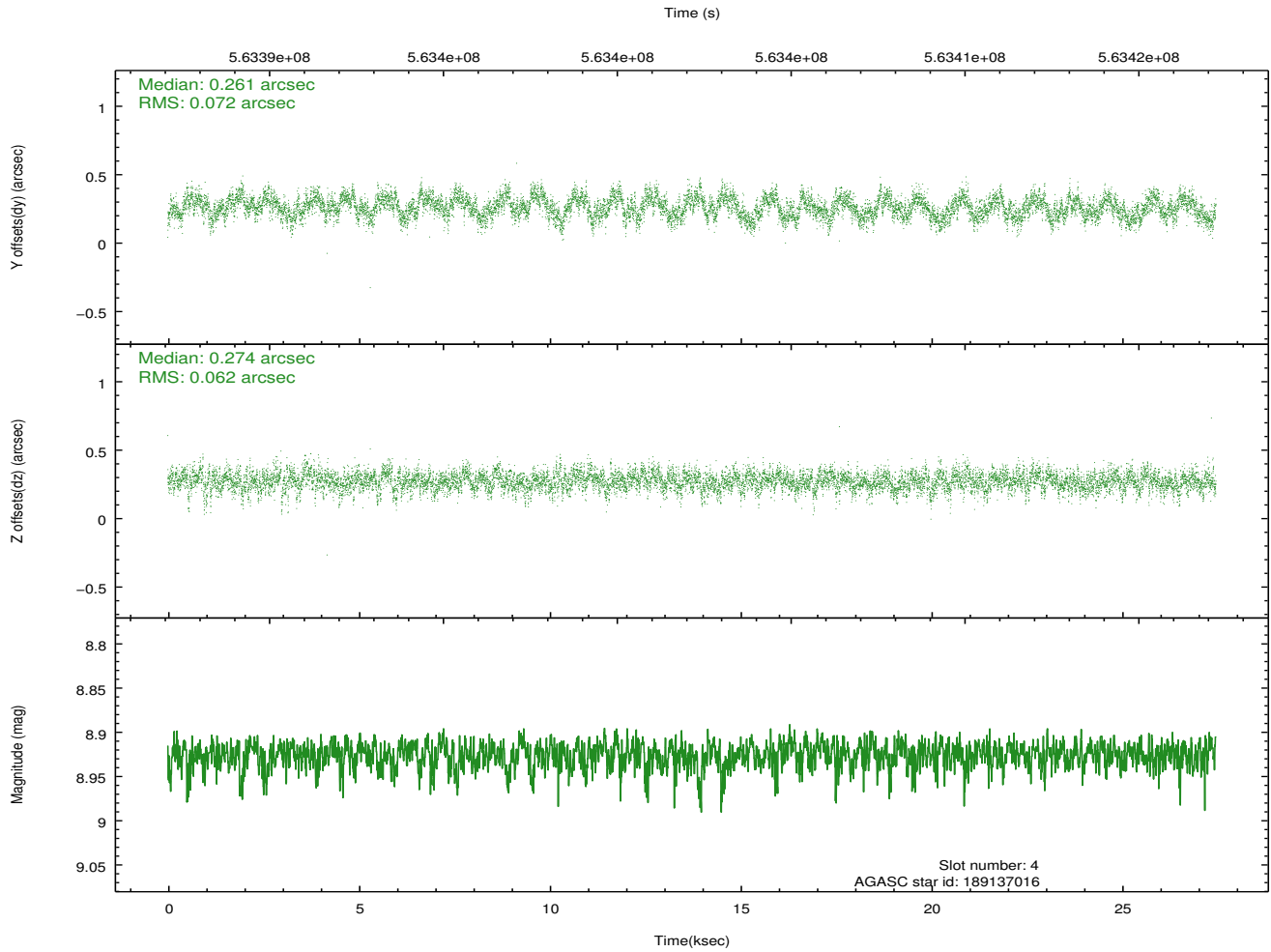
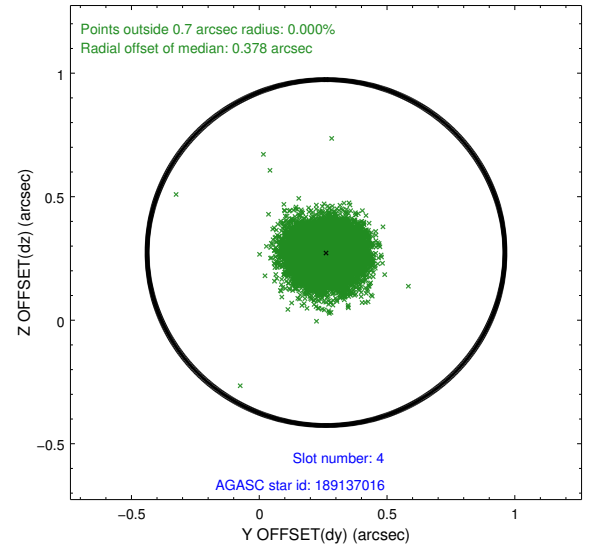
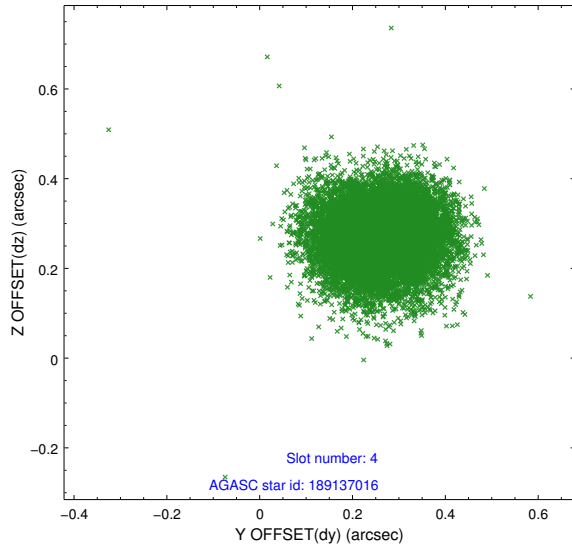
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.30	6699	-0.028	0.051	0.027	0.055	0.000000	0.000000	922.40	-679.76
1	FID		ACIS-I-5	7.24	6699	-0.251	-0.029	0.012	0.020	0.000000	0.000000	-1825.99	1217.45
2	FID		ACIS-I-6	7.23	6699	0.187	0.046	0.024	0.053	0.000000	0.000000	387.91	1862.26
3	GUIDE	used	188745704	8.55	13391	0.015	-0.506	0.116	0.188	175.394573	19.530748	-1941.79	1867.75
4	GUIDE	used	189137016	8.93	13389	0.261	0.274	0.101	0.163	176.017714	19.173647	-1744.10	-599.64
5	GUIDE	used	189139352	8.76	13392	-0.100	0.586	0.109	0.177	176.255936	19.500124	-317.94	-563.45
6	GUIDE	used	189140584	7.39	13395	-0.223	-0.590	0.078	0.130	176.337611	19.889196	976.92	35.27
7	GUIDE	used	189152088	8.52	13386	0.051	0.241	0.102	0.171	176.796455	19.306289	200.64	-2457.18

2.4 Star Slots

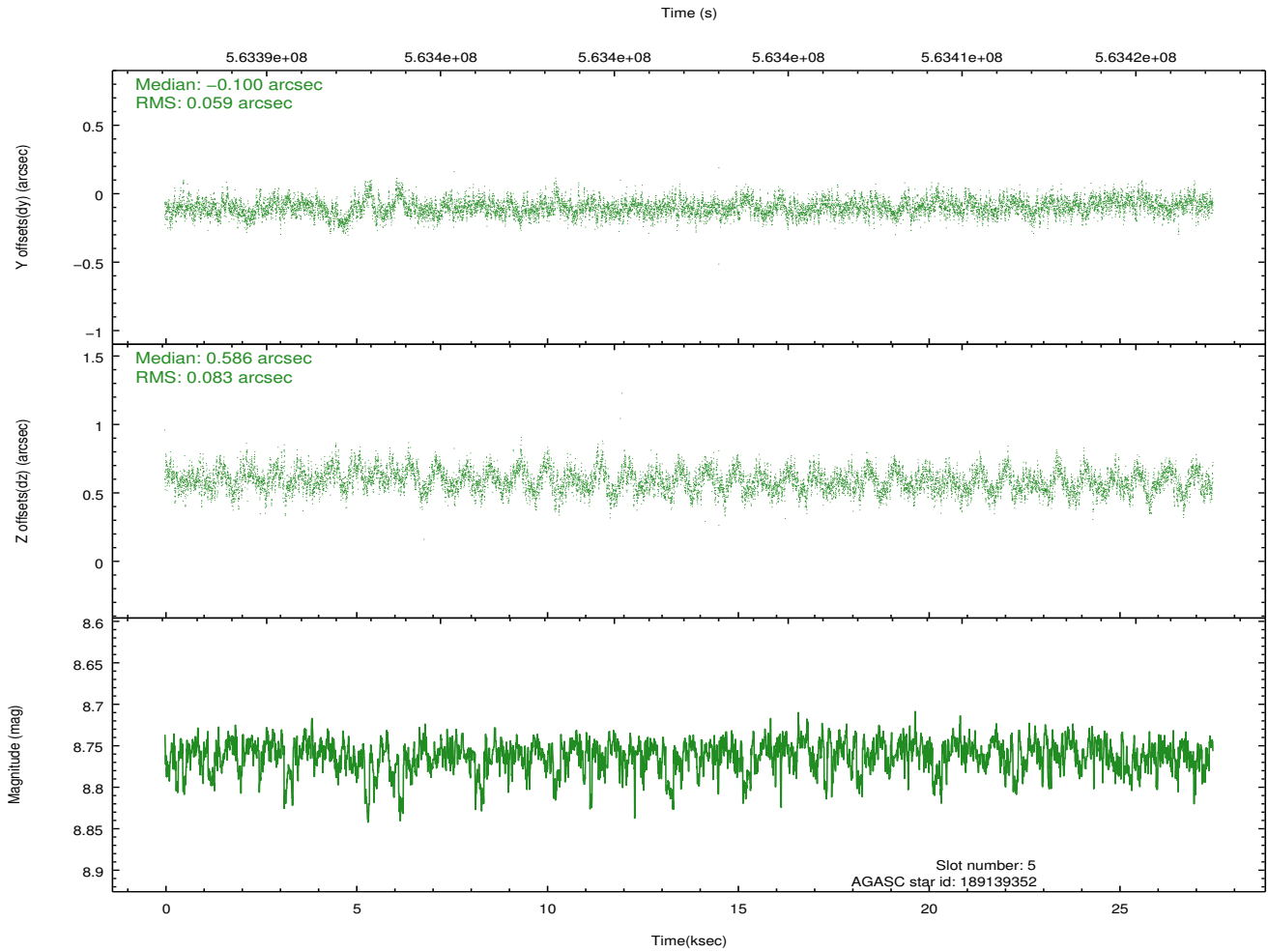
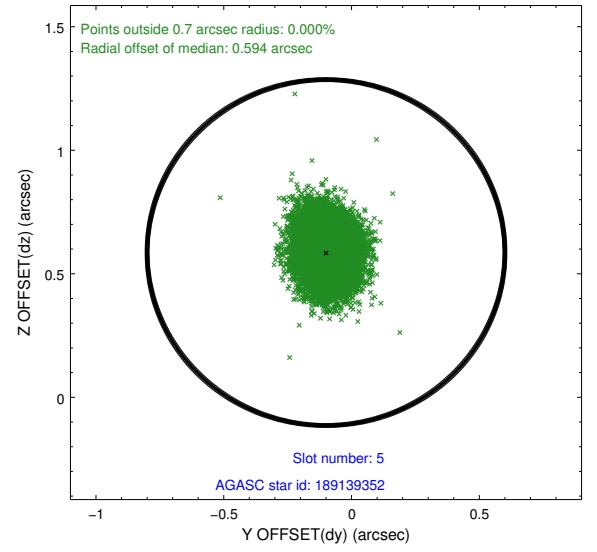
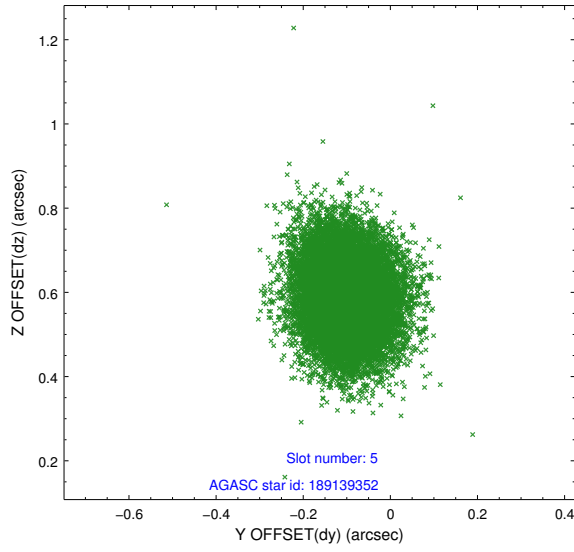
2.4.1 Slot 3



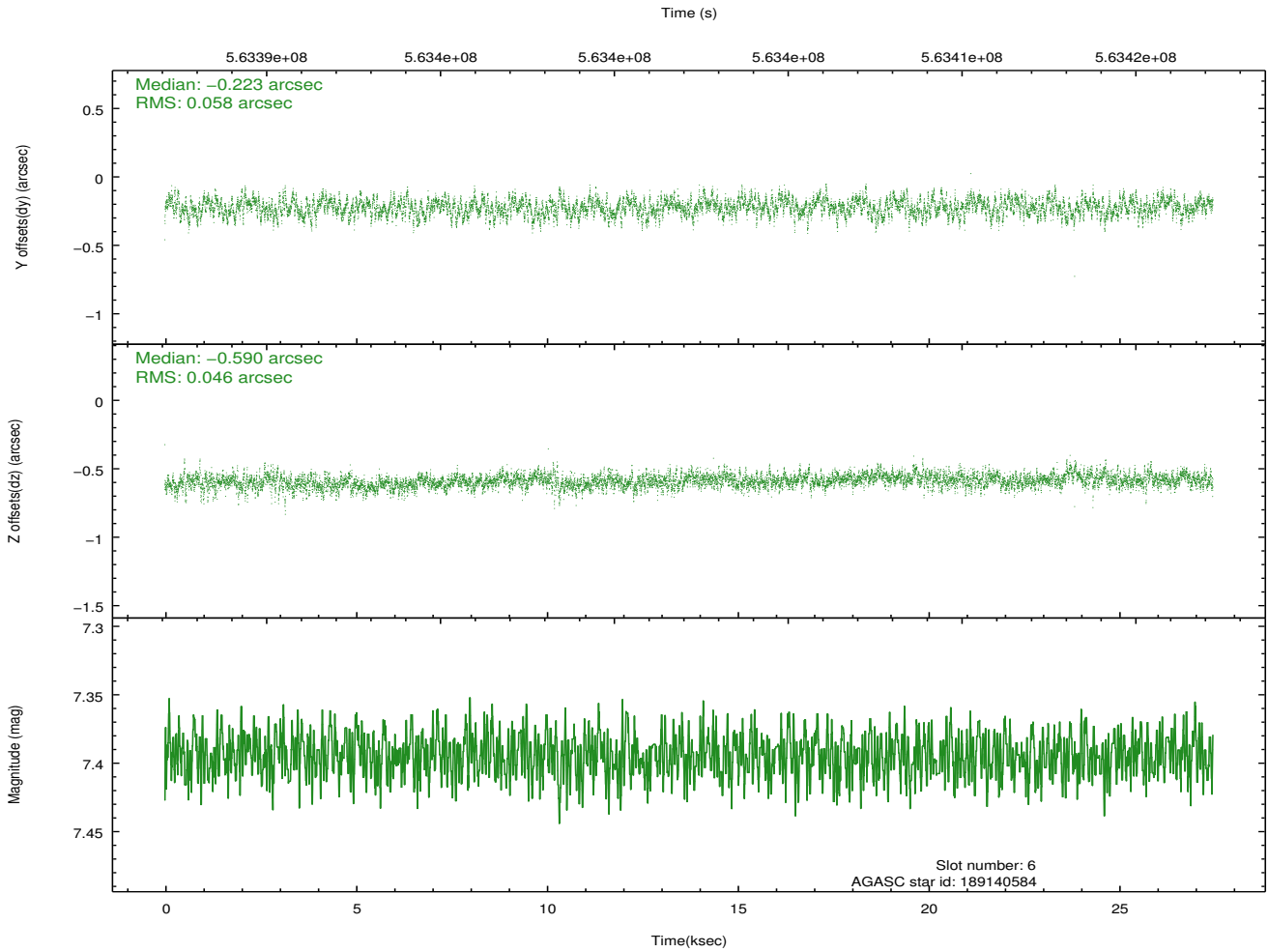
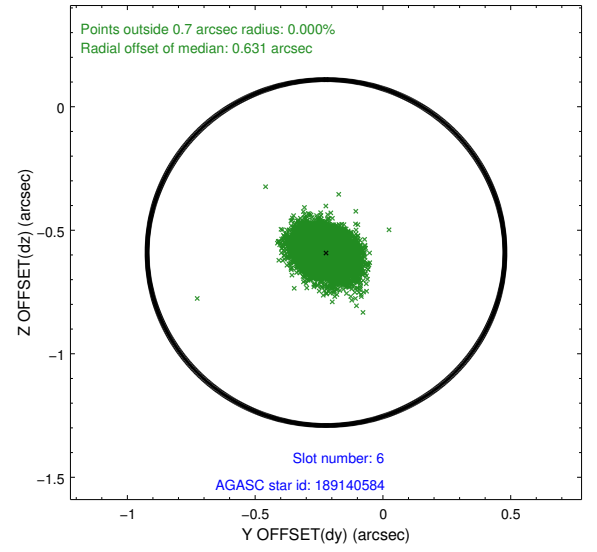
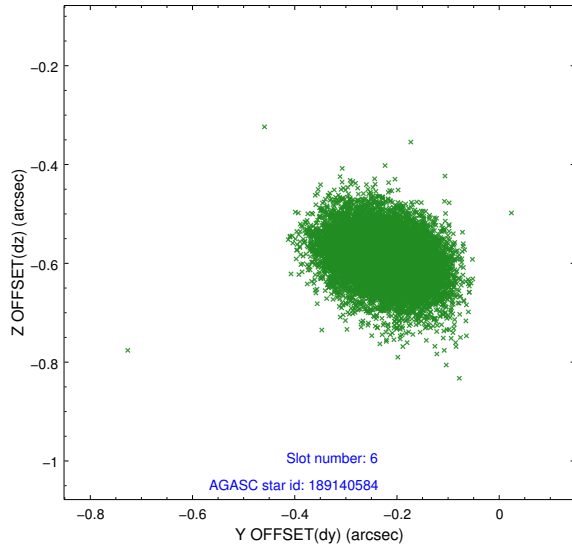
2.4.2 Slot 4



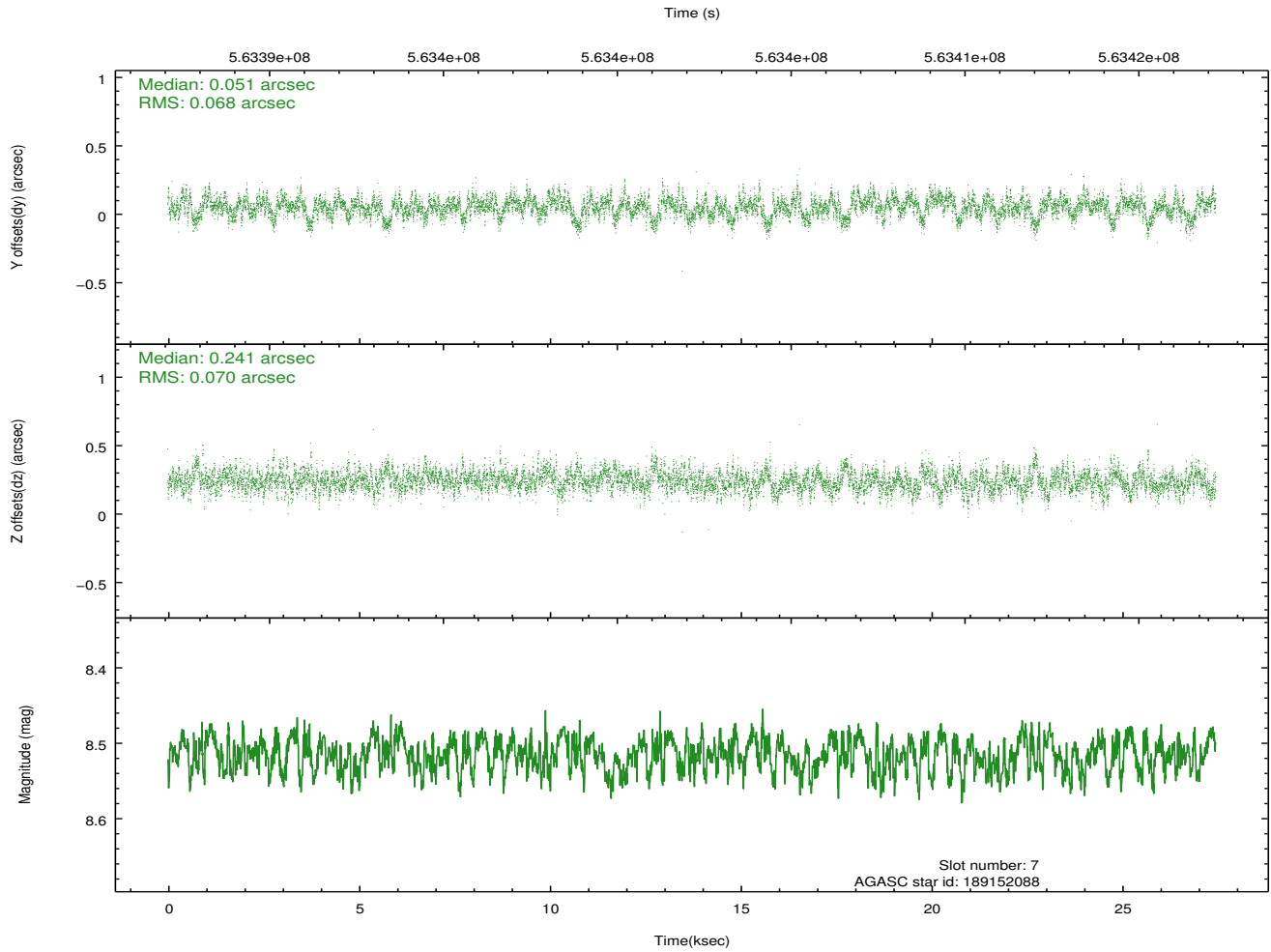
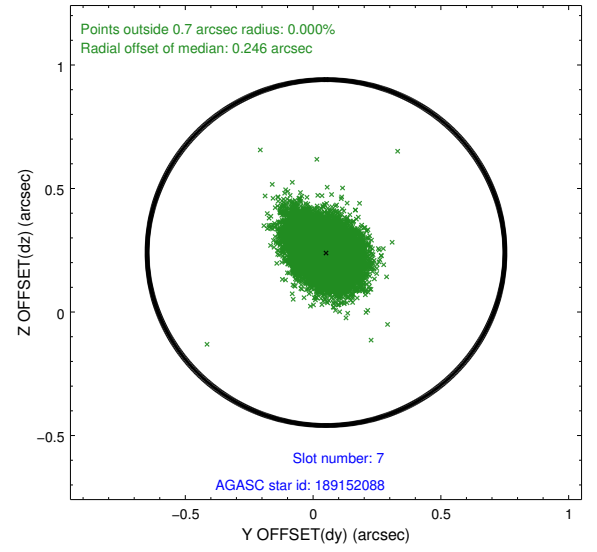
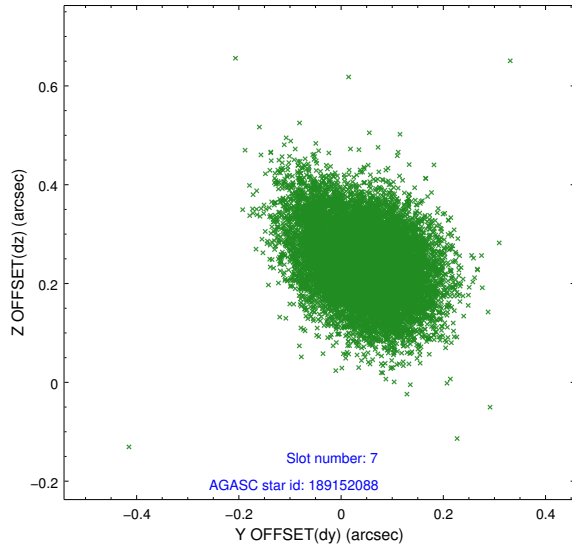
2.4.3 Slot 5



2.4.4 Slot 6

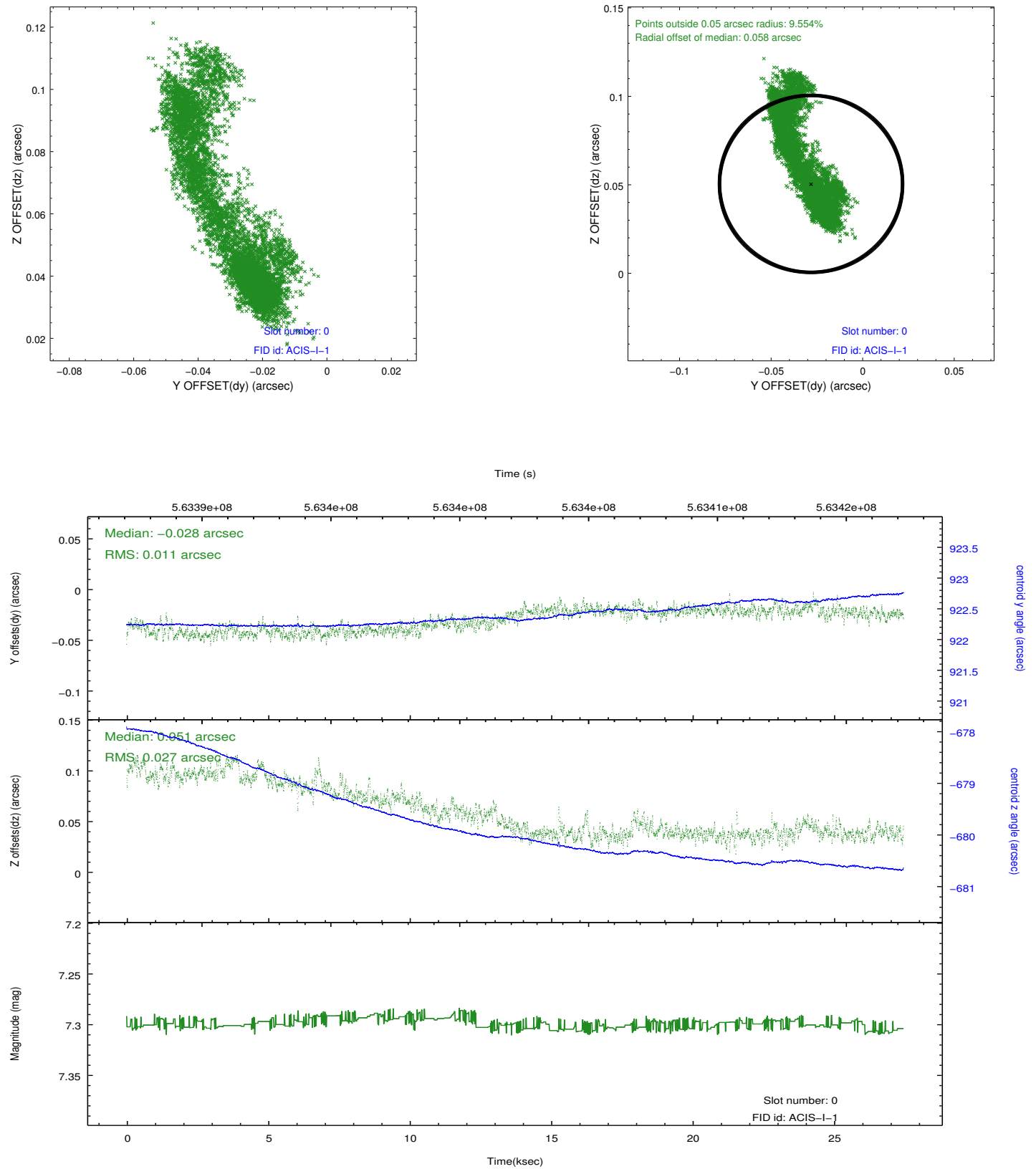


2.4.5 Slot 7

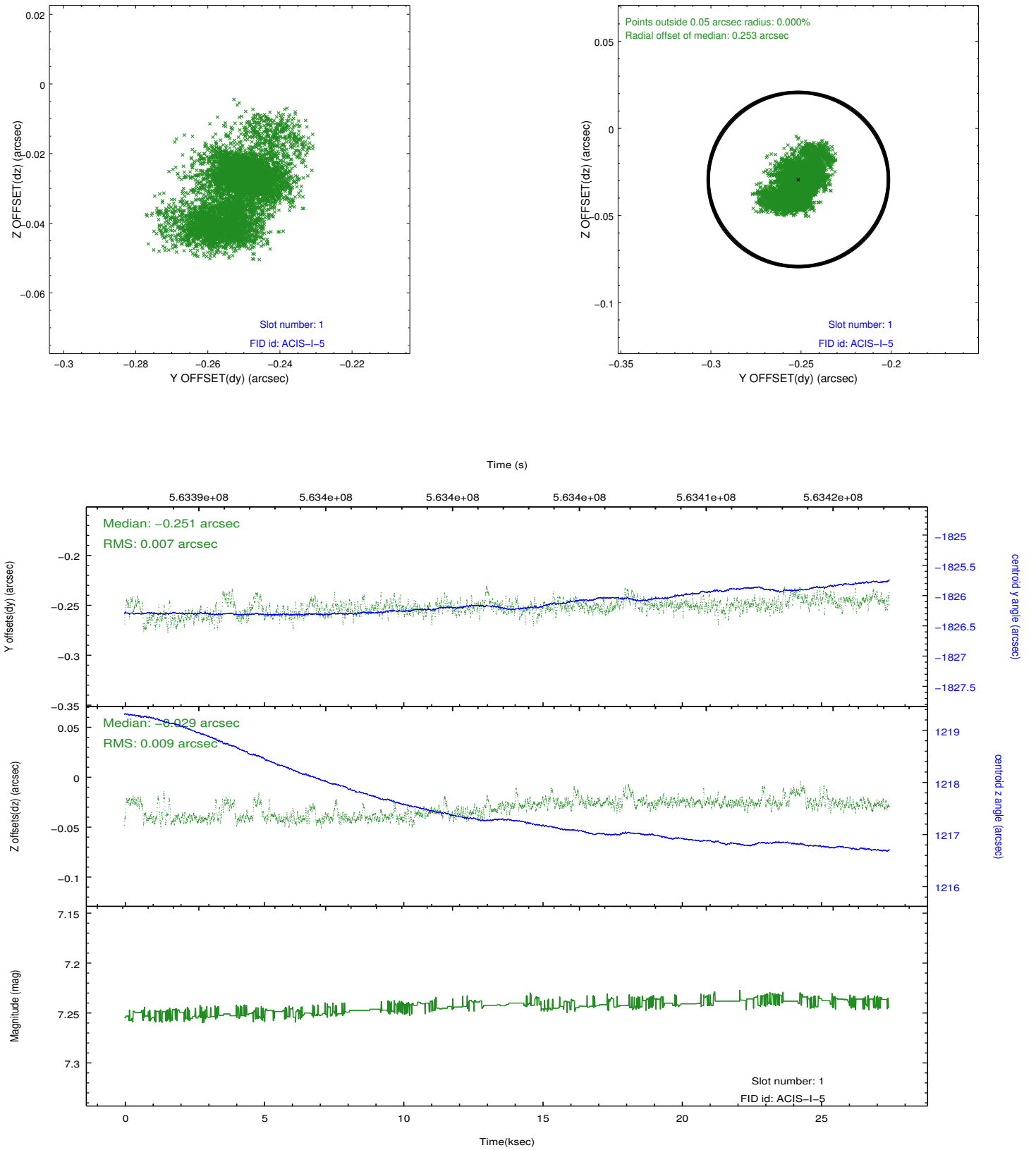


2.5 FID Slots

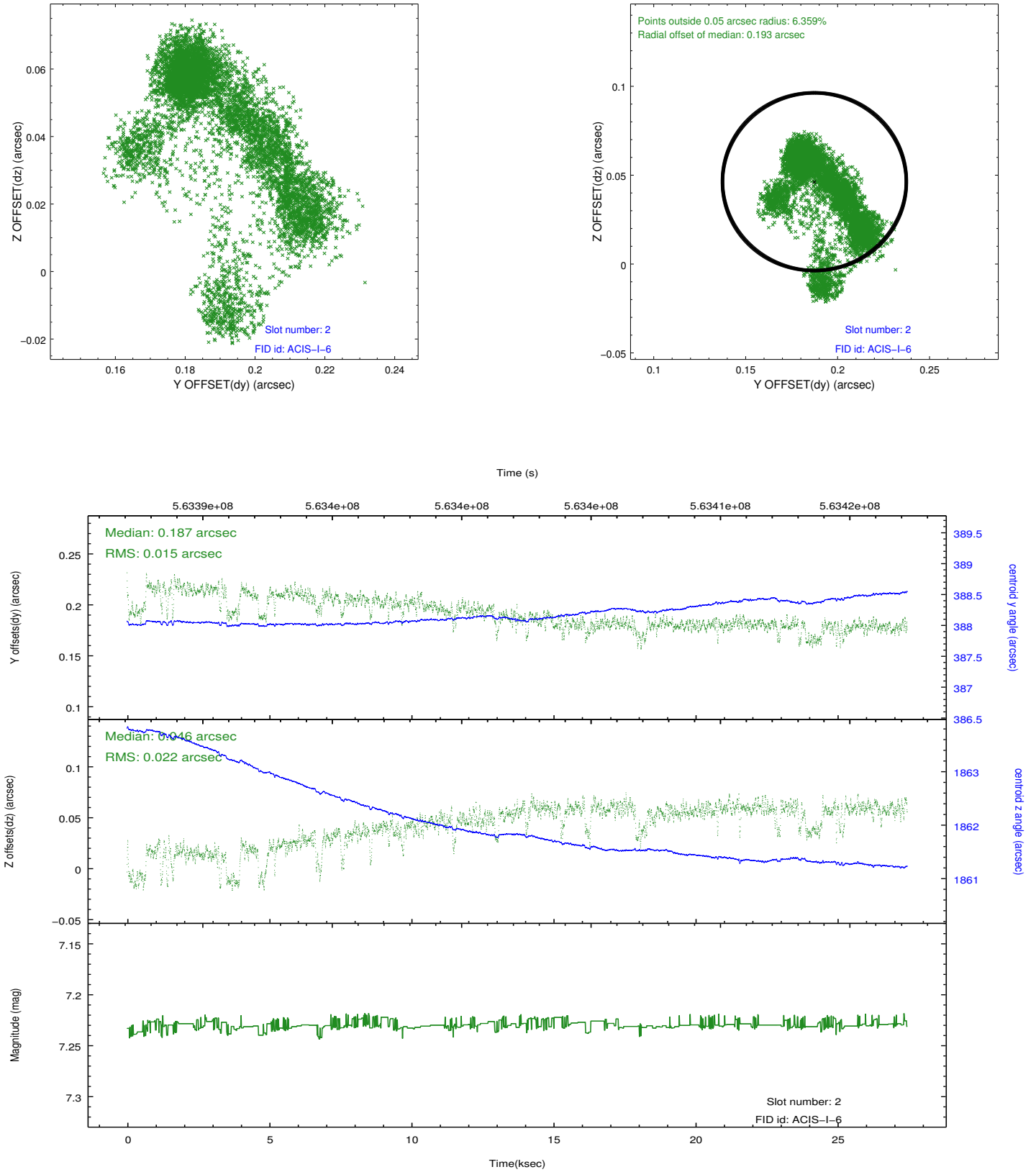
2.5.1 Slot 0



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)	2015.11.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.383965907693

A.2 Comments