

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18282 - L2 Version 1
Chandra X-Ray Center

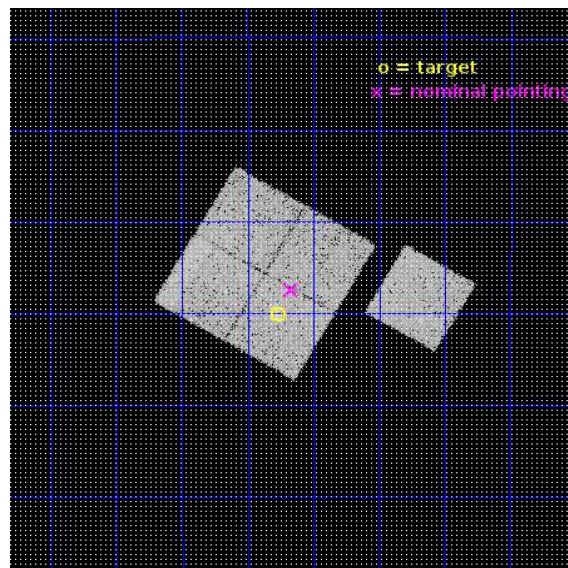
L2 Processing Date : Jul 18 2016

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1 Front

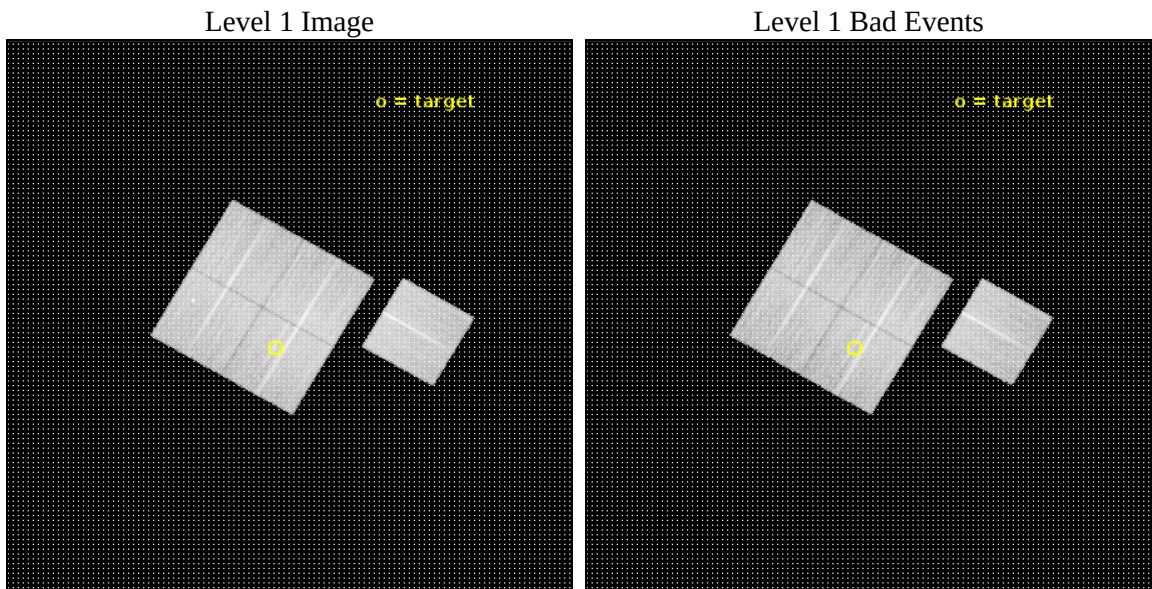
seq_num	801600	Sequence number
obs_id	18282	Observation id
title	SPT-CL J0329-2330: CHARACTERIZING THE X-RAY PROPERTIES OF AN EXCEPTIONAL HIGH-REDSHIFT GALAXY CLUSTER	Proposal title
observer	Dr. Lindsey Bleem	Principal investigator
object	SPT-CLJ0329-2330	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	52.3175	Observer's specified target RA [deg]
dec_targ	-23.502944	Observer's specified target Dec [deg]
ra_nom	52.291866526005	Nominal RA [deg]
dec_nom	-23.457338914876	Nominal Dec [deg]
roll_nom	120.19847953178	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26486.35921371	Sum of GTIs [s]
livetime	26140.295431609	Livetime [s]
ontime0	26489.500203848	Sum of GTIs [s]
ontime1	26486.359213591	Sum of GTIs [s]
ontime2	26489.500203848	Sum of GTIs [s]
ontime3	26486.35921371	Sum of GTIs [s]
ontime6	26489.500203848	Sum of GTIs [s]
l2events	77666	Number of level 2 events



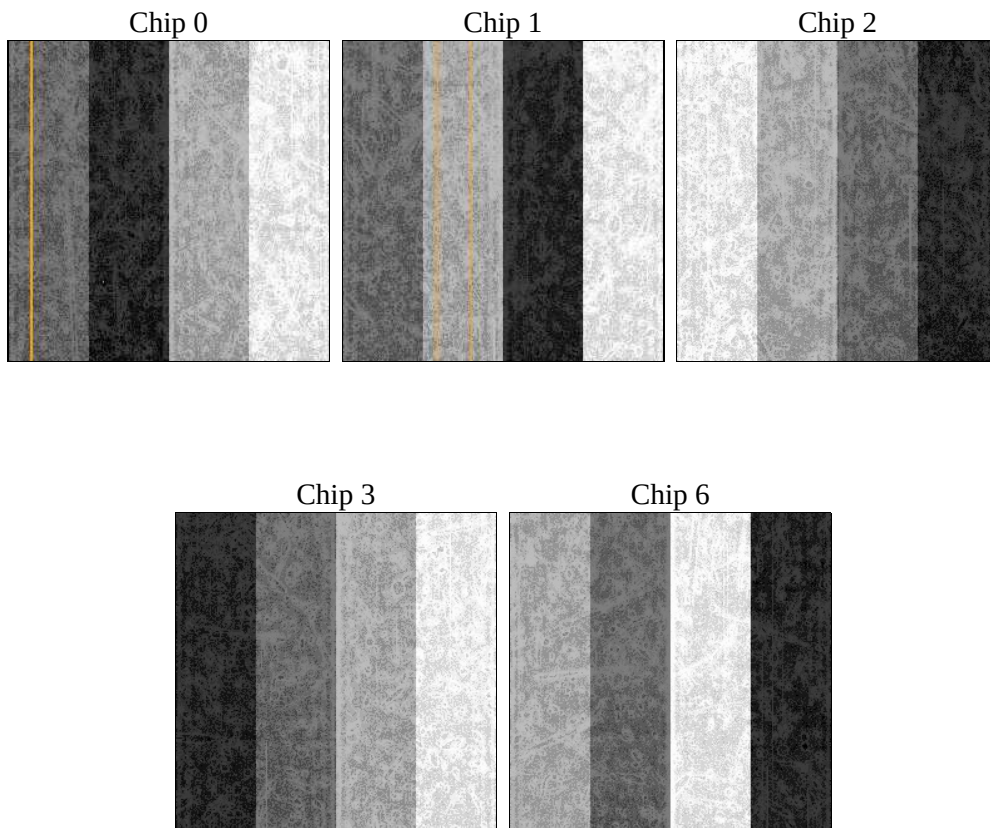
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26428.067000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	26486.35921371	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	26489.500203848	Sum of GTIs [s]
date	2016-07-18T13:43:41	Date and time of file creation	ontime1	26486.359213591	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26489.500203848	Sum of GTIs [s]
			ontime3	26486.35921371	Sum of GTIs [s]
			ontime6	26489.500203848	Sum of GTIs [s]
			l1events	773919	Number of level 1 events

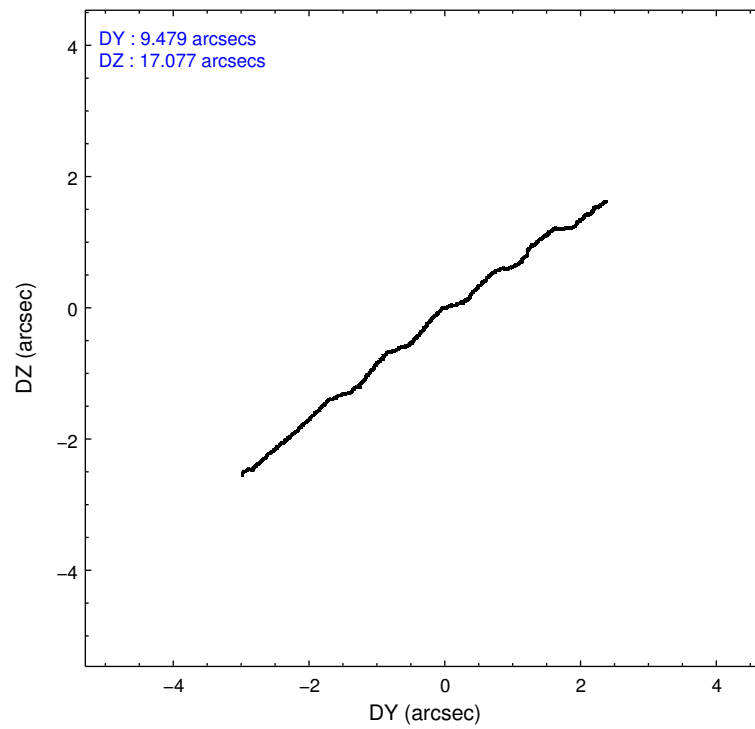
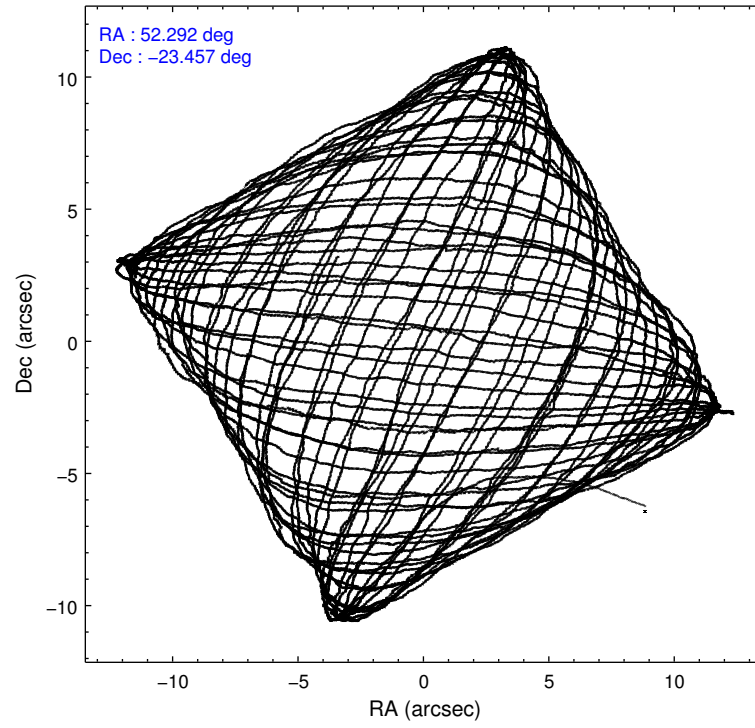
2.1.4 Events

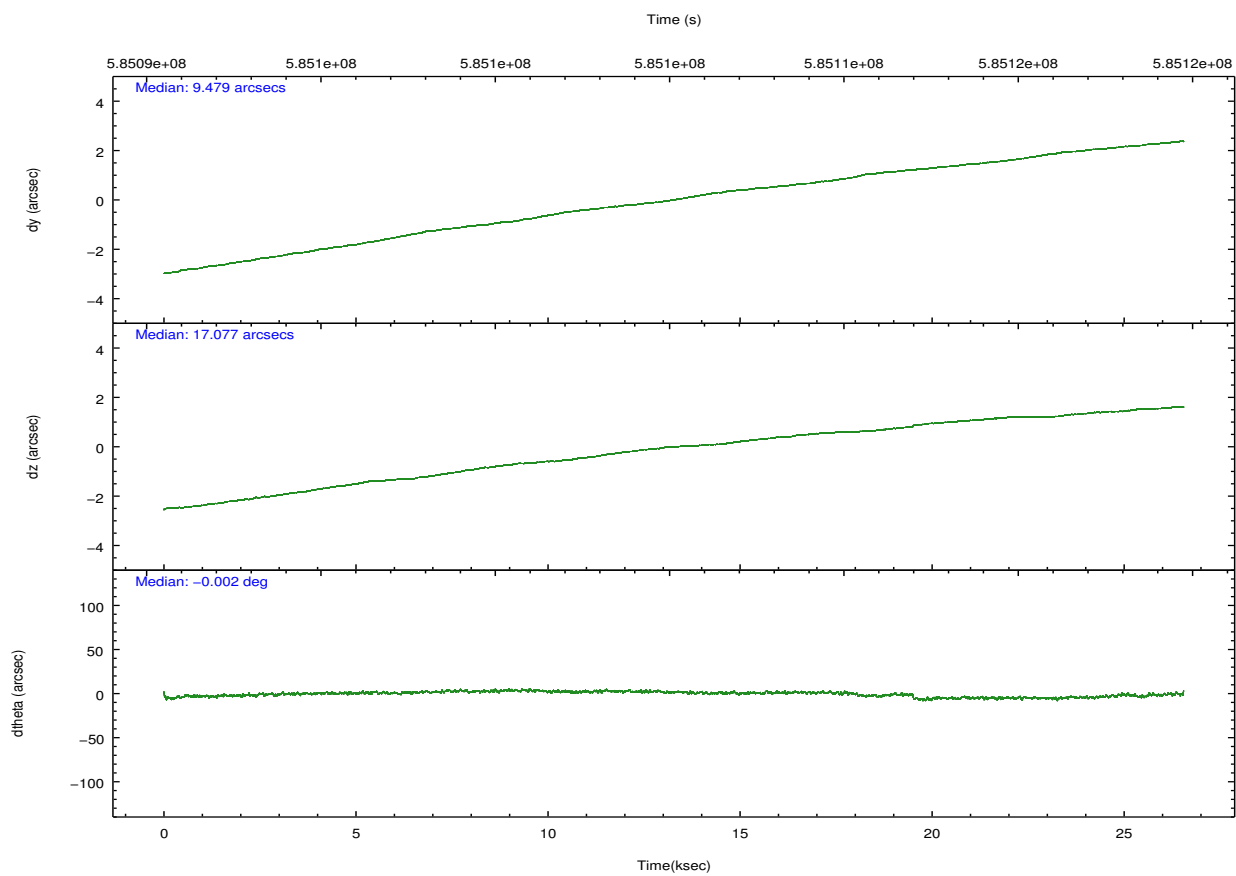
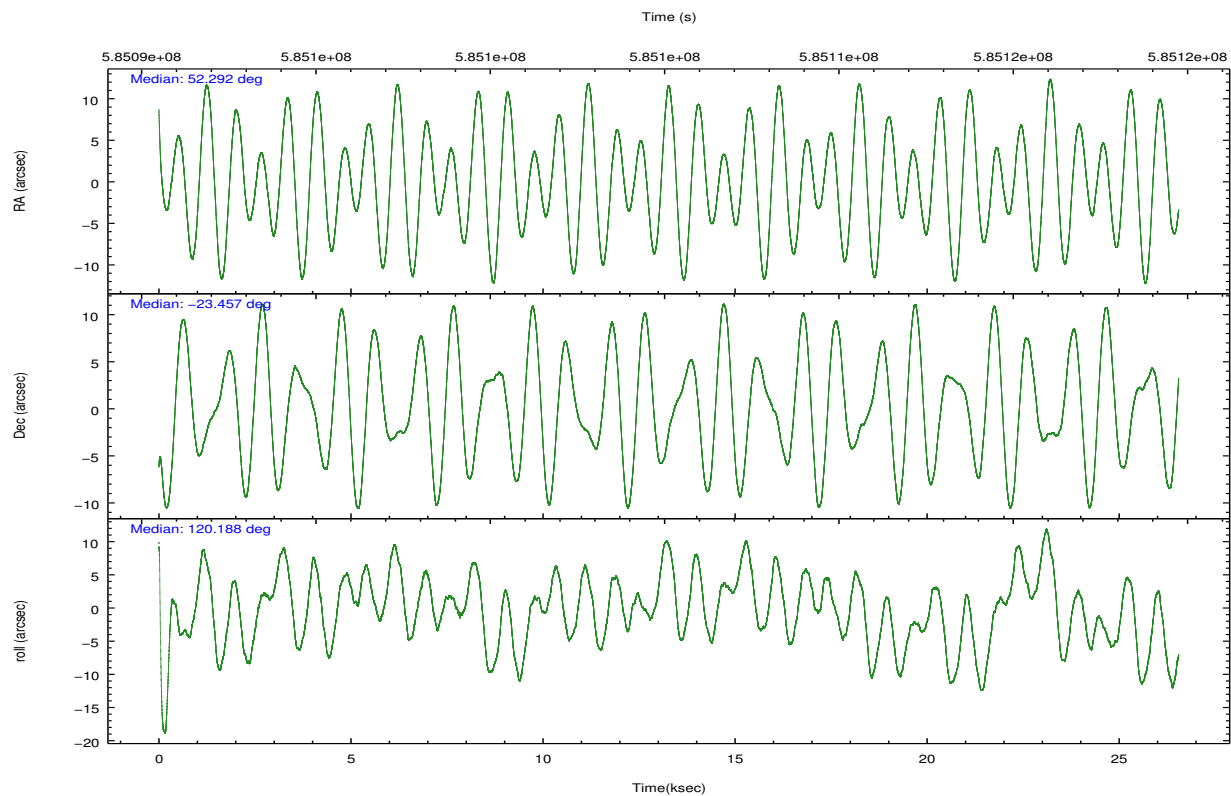
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	146363	152580	161381	154498	159097	grade 0 events	5968	7609	6059	6644	6168
rejected events	128497	131459	144032	136663	140569		4%	4%	3%	4%	3%
rejected %	87%	86%	89%	88%	88%	grade 1 events	67	100	105	104	58
							0%	0%	0%	0%	0%
						grade 2 events	4527	5169	4340	3855	4224
							3%	3%	2%	2%	2%
						grade 3 events	1847	1948	1757	1826	1864
							1%	1%	1%	1%	1%
						grade 4 events	1726	1950	1766	1825	1896
							1%	1%	1%	1%	1%
						grade 5 events	6773	7461	6307	7940	7236
							4%	4%	3%	5%	4%
						grade 6 events	3799	4446	3429	3686	4378
							2%	2%	2%	2%	2%
						grade 7 events	121656	123897	137618	128618	133273
							83%	81%	85%	83%	83%

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	52.318035	52.29186652600505	CCD I2 on	Y	Y
[deg] Pointing Dec	-23.470937	-23.45733891487629	CCD I3 on	Y	Y
[deg] Pointing Roll	120.000210	120.1984795317815	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	-225.842463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	585091963.184000	585090562.01394	CCD S5 on	N	N
Observation start date	2016-07-16T21:31:35	2016-07-16T21:09:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	585118391.184000	585118616.26555	On-chip summing requested	N	N
Observation end date	2016-07-17T04:52:03	2016-07-17T04:56:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



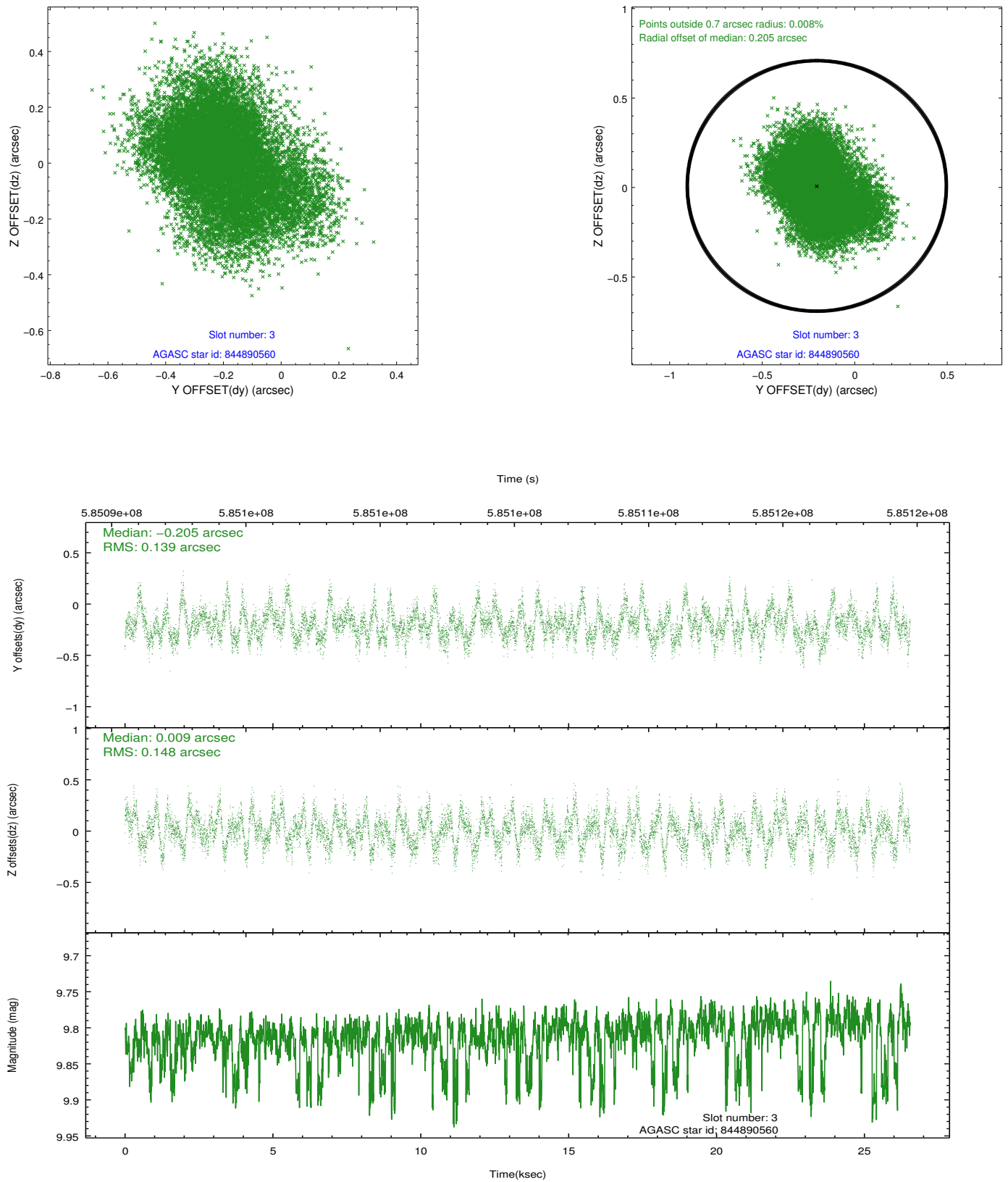


Slot Statistics

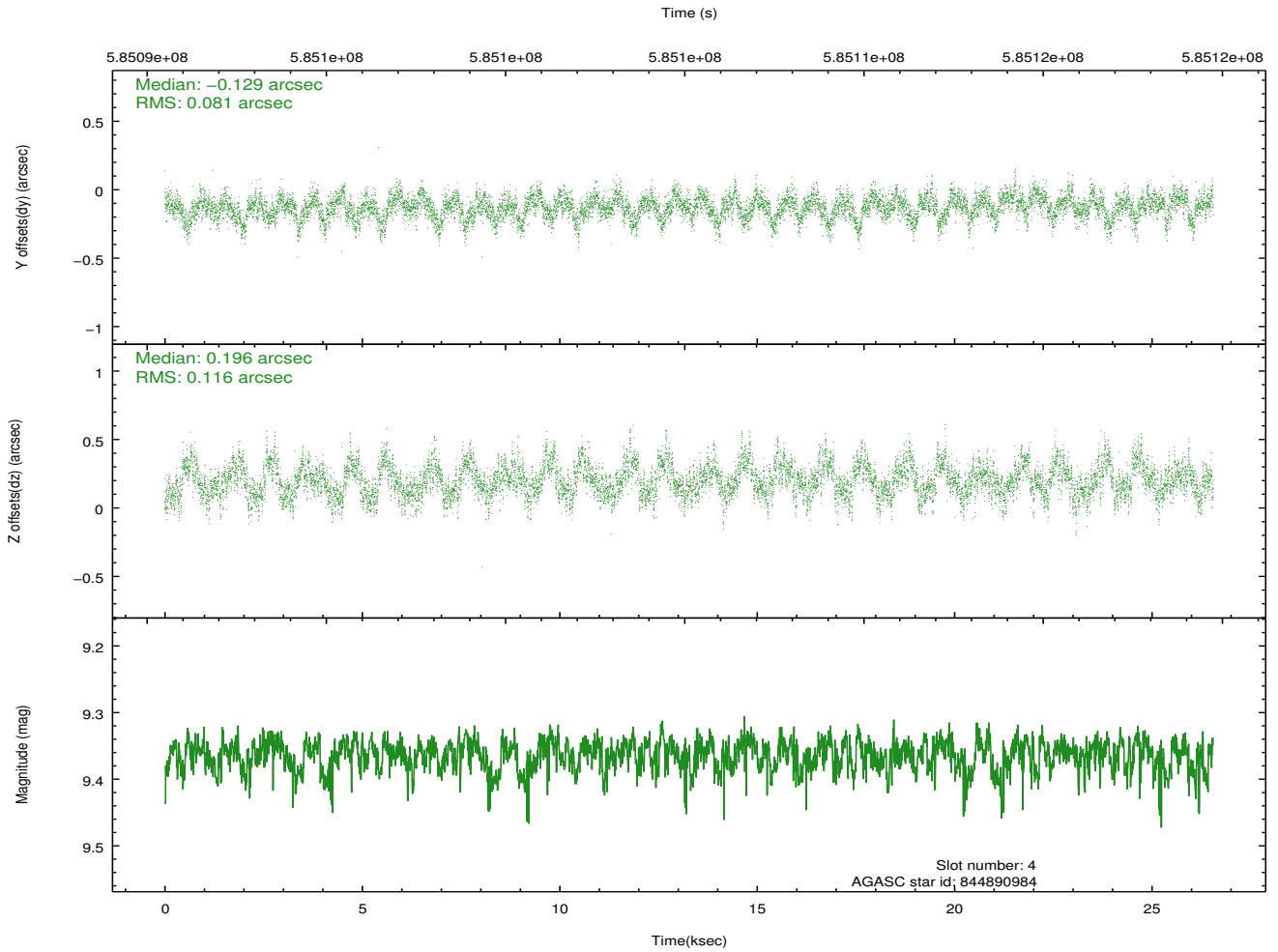
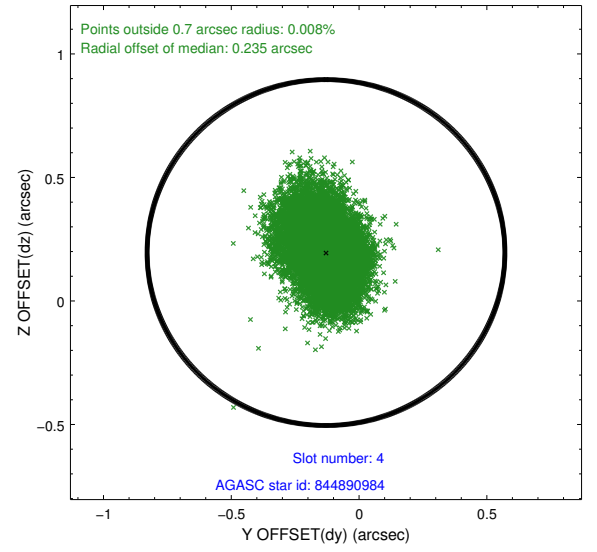
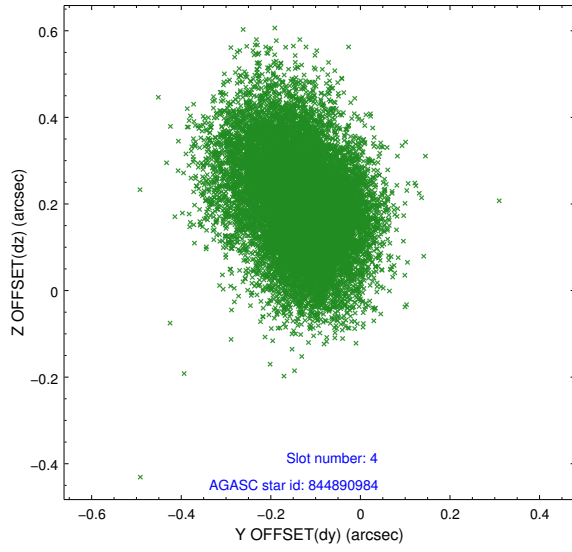
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.23	6476	0.140	-0.122	0.035	0.052	0.000000	0.000000	930.21	-999.68
1	FID		ACIS-I-2	7.18	6476	-0.351	-0.011	0.043	0.057	0.000000	0.000000	-764.72	-1005.07
2	FID		ACIS-I-4	7.15	6475	0.114	0.201	0.027	0.060	0.000000	0.000000	2149.58	901.34
3	GUIDE	used	844890560	9.81	12936	-0.205	0.009	0.218	0.348	52.436633	-23.015497	1223.62	-1159.38
4	GUIDE	used	844890984	9.36	12937	-0.129	0.196	0.149	0.246	52.793668	-23.183468	107.40	-1878.34
5	GUIDE	used	844892848	8.82	12942	0.212	-0.055	0.135	0.210	52.345324	-24.100856	-2008.85	1052.10
6	GUIDE	used	844896640	7.08	12951	0.130	0.144	0.103	0.179	52.396044	-23.475723	-143.57	-215.16
7	GUIDE	used	844893832	10.02	12920	-0.028	-0.307	0.260	0.419	51.967701	-24.238664	-1819.95	2378.47

2.4 Star Slots

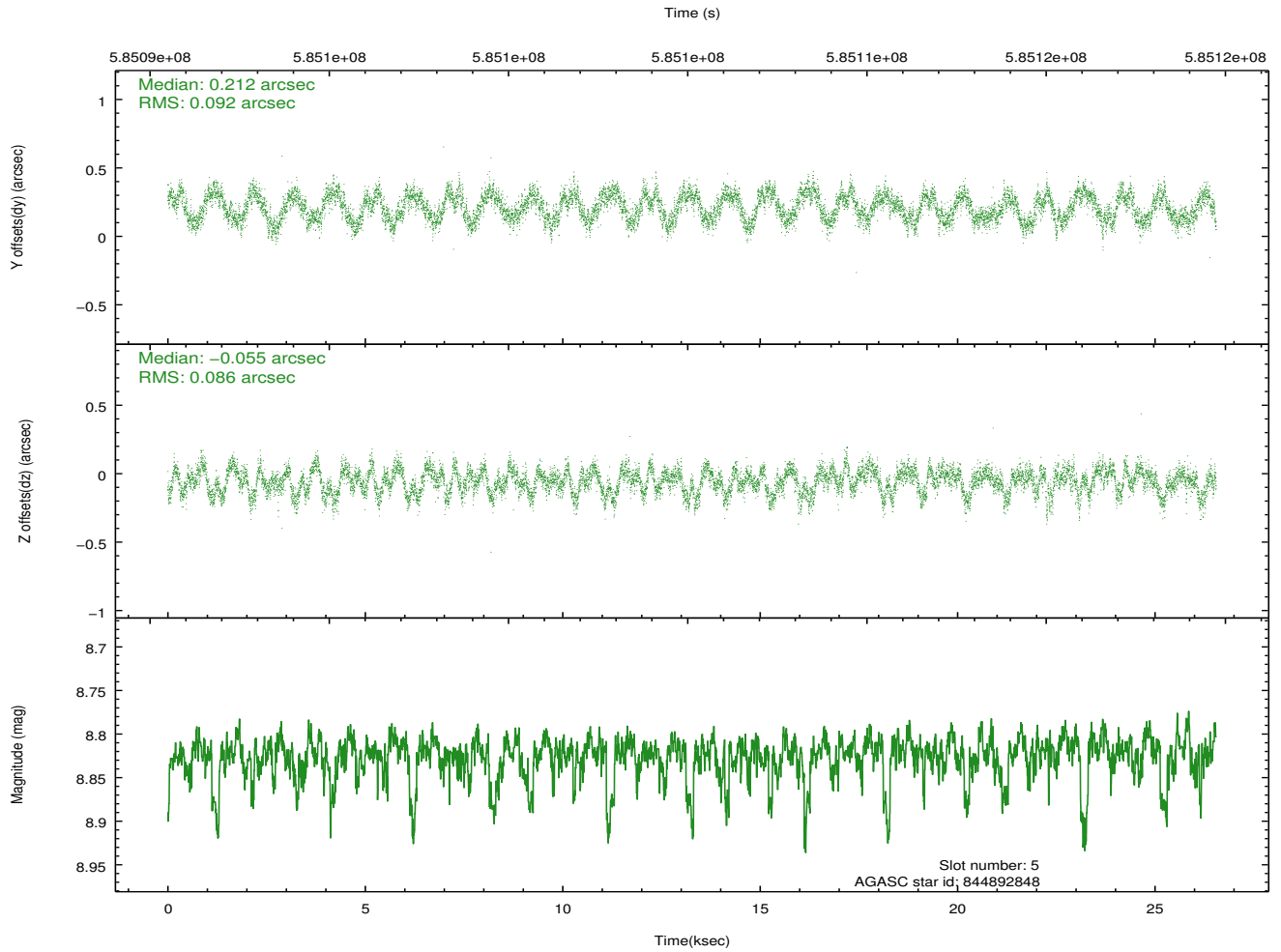
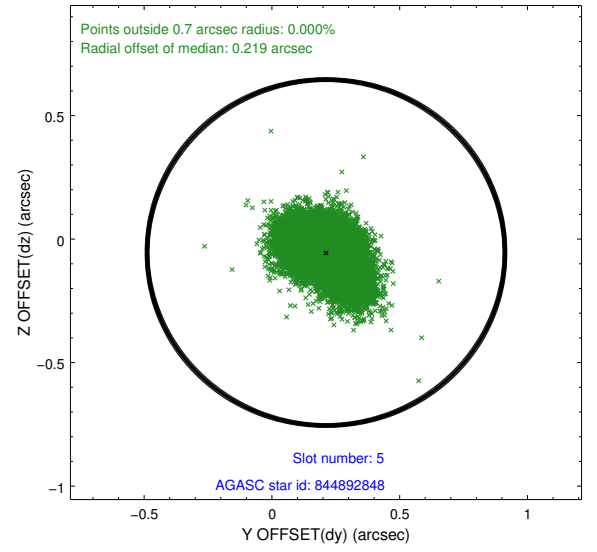
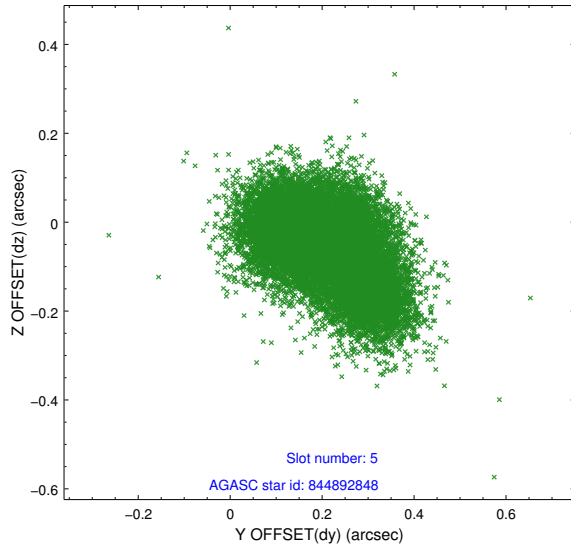
2.4.1 Slot 3



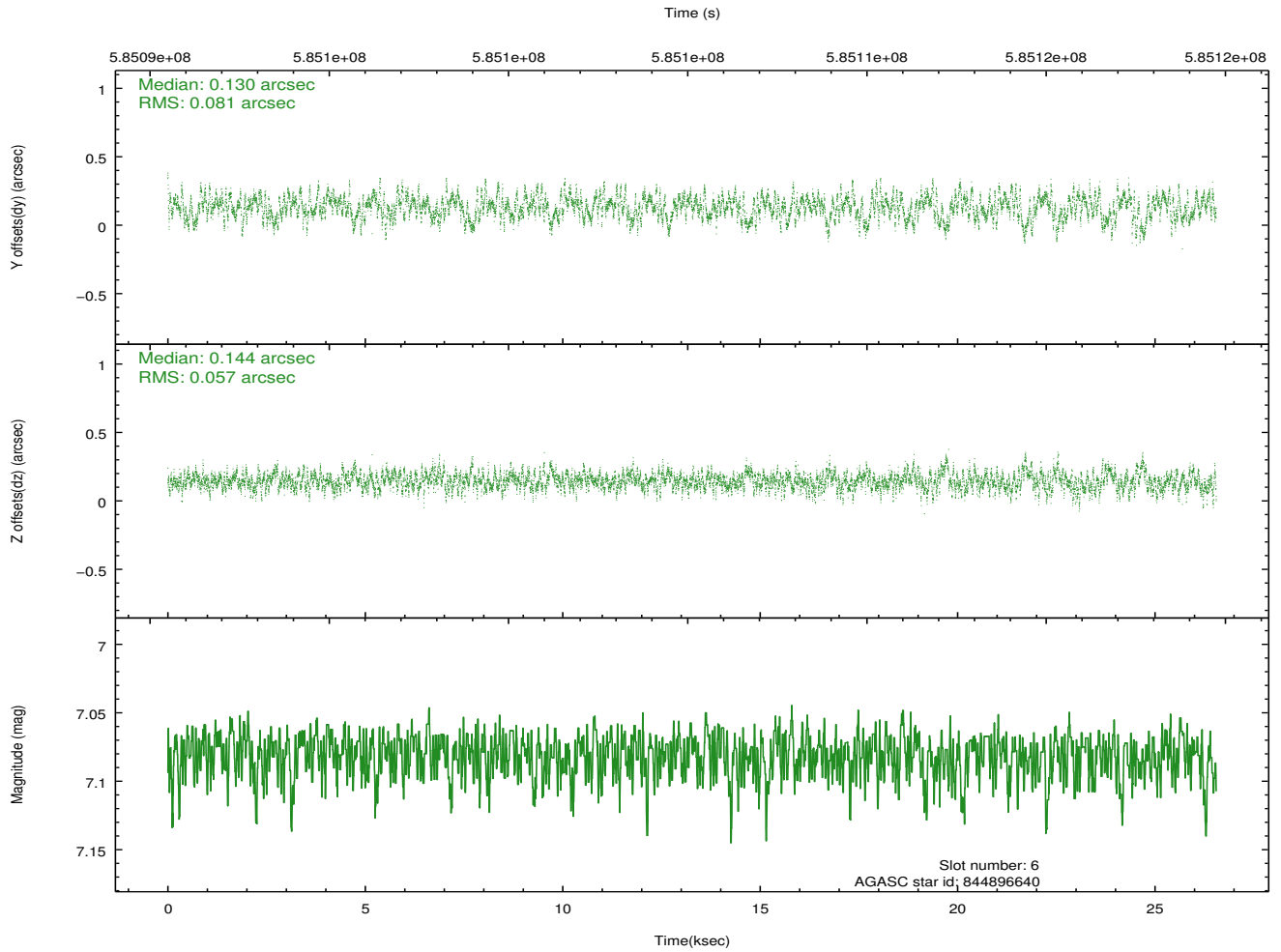
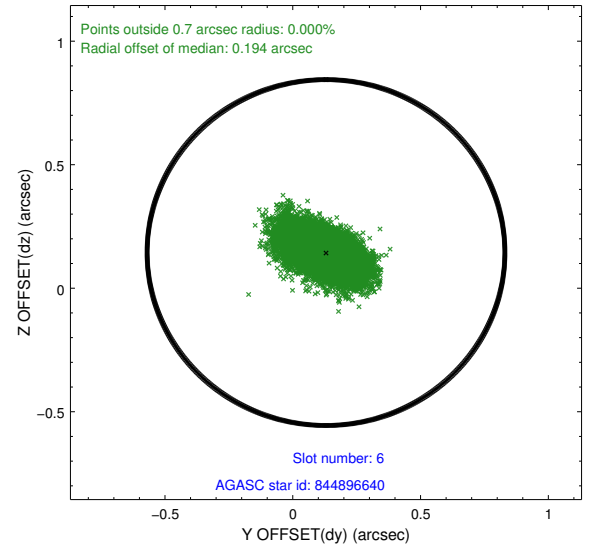
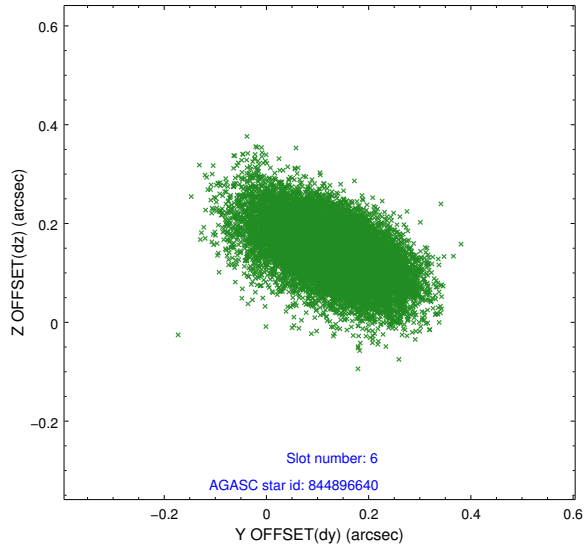
2.4.2 Slot 4



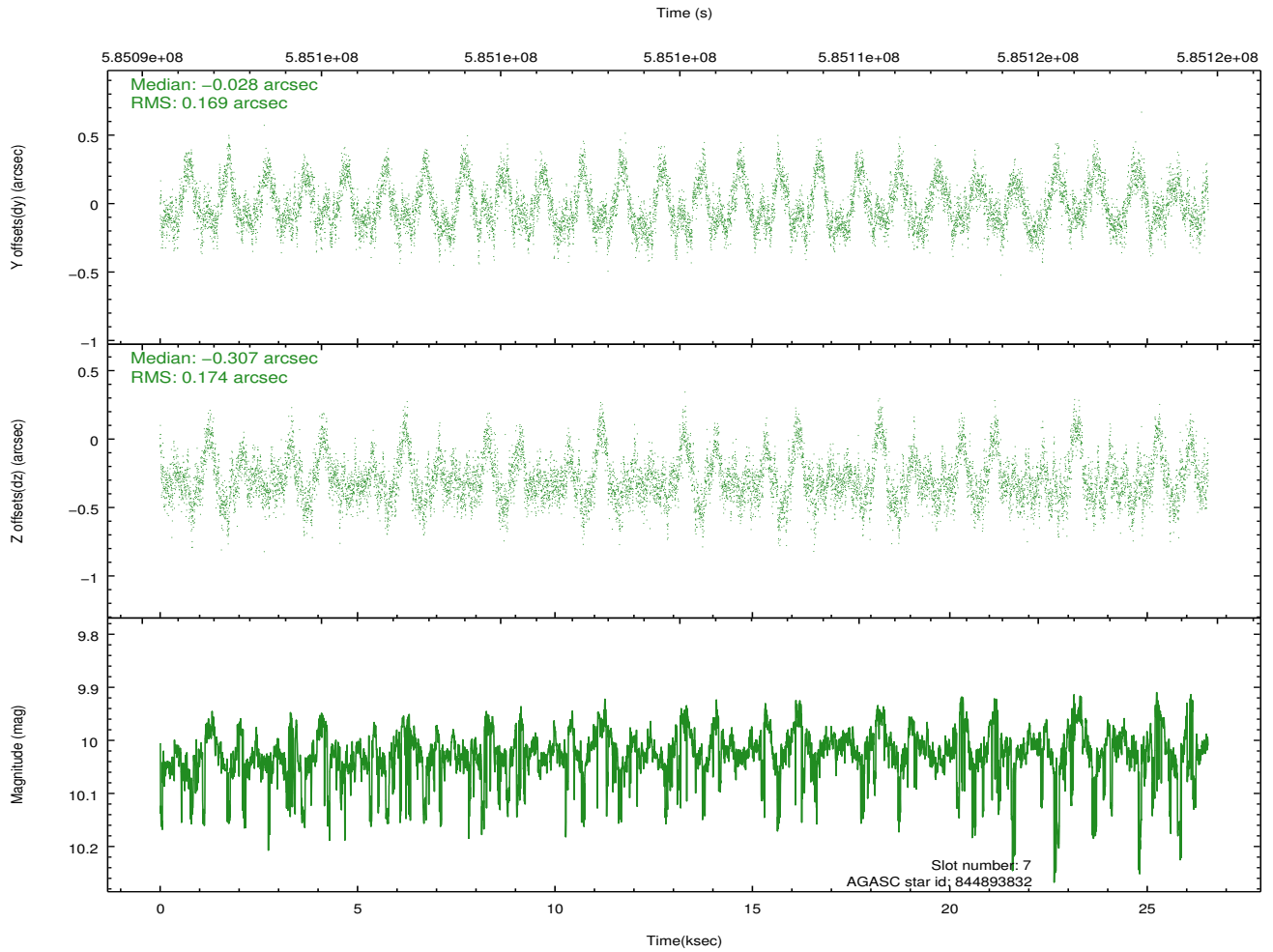
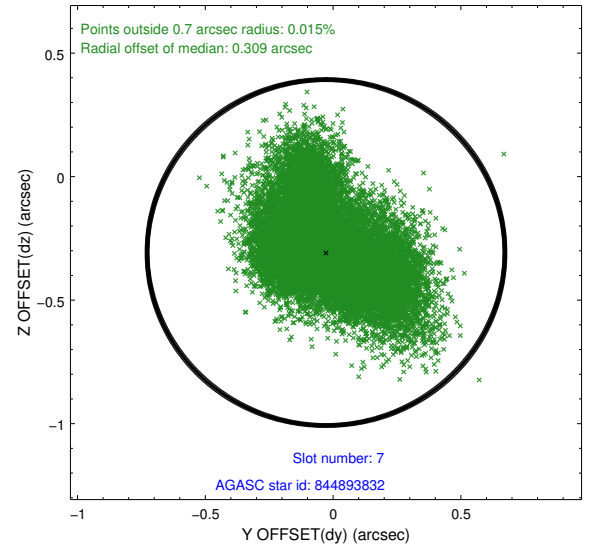
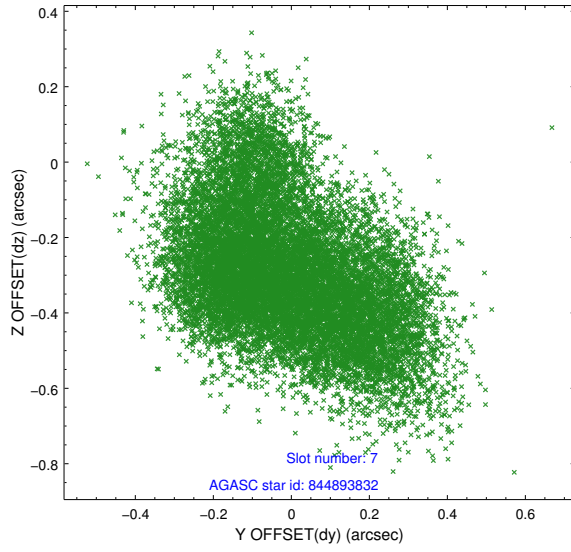
2.4.3 Slot 5



2.4.4 Slot 6

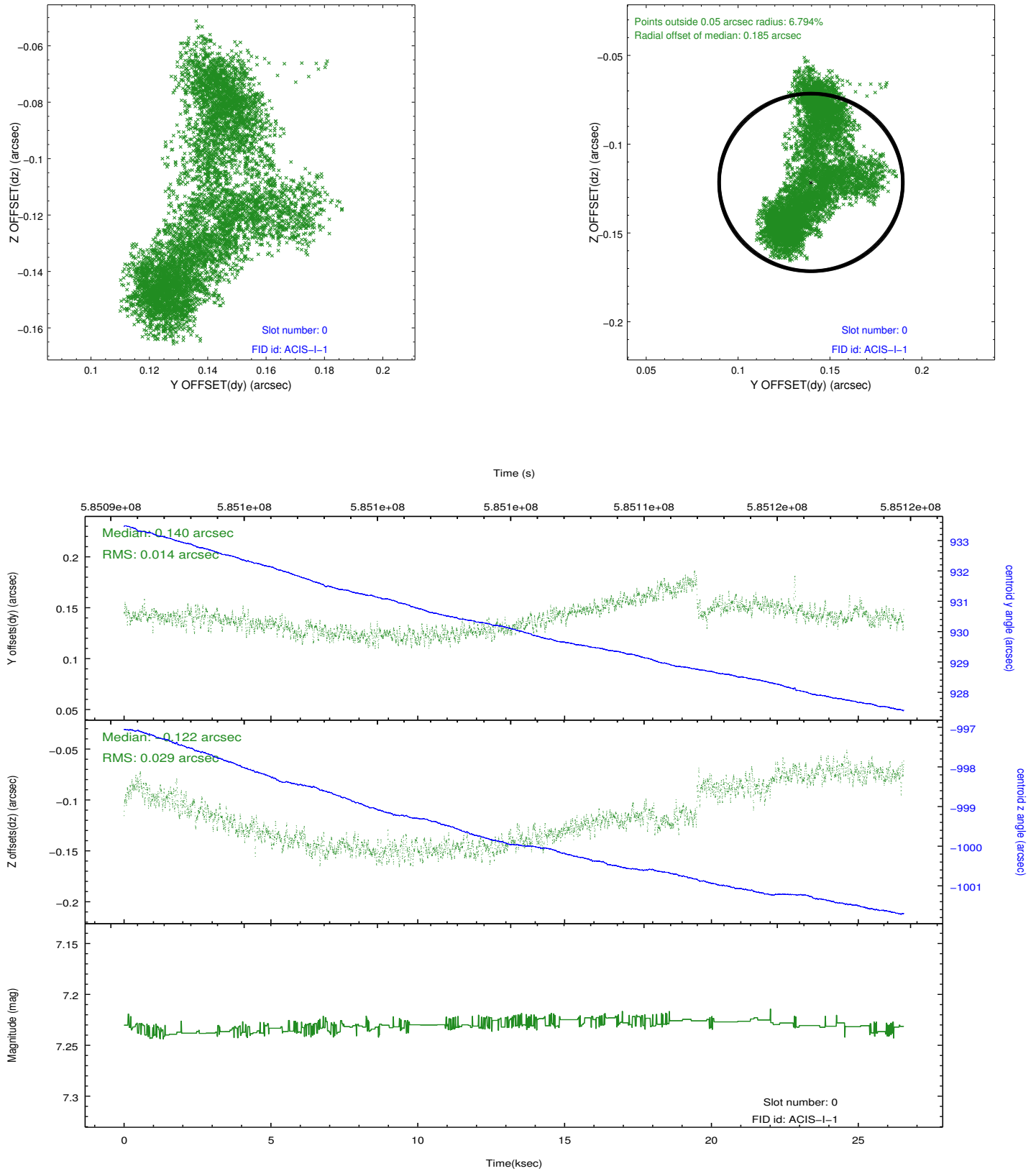


2.4.5 Slot 7

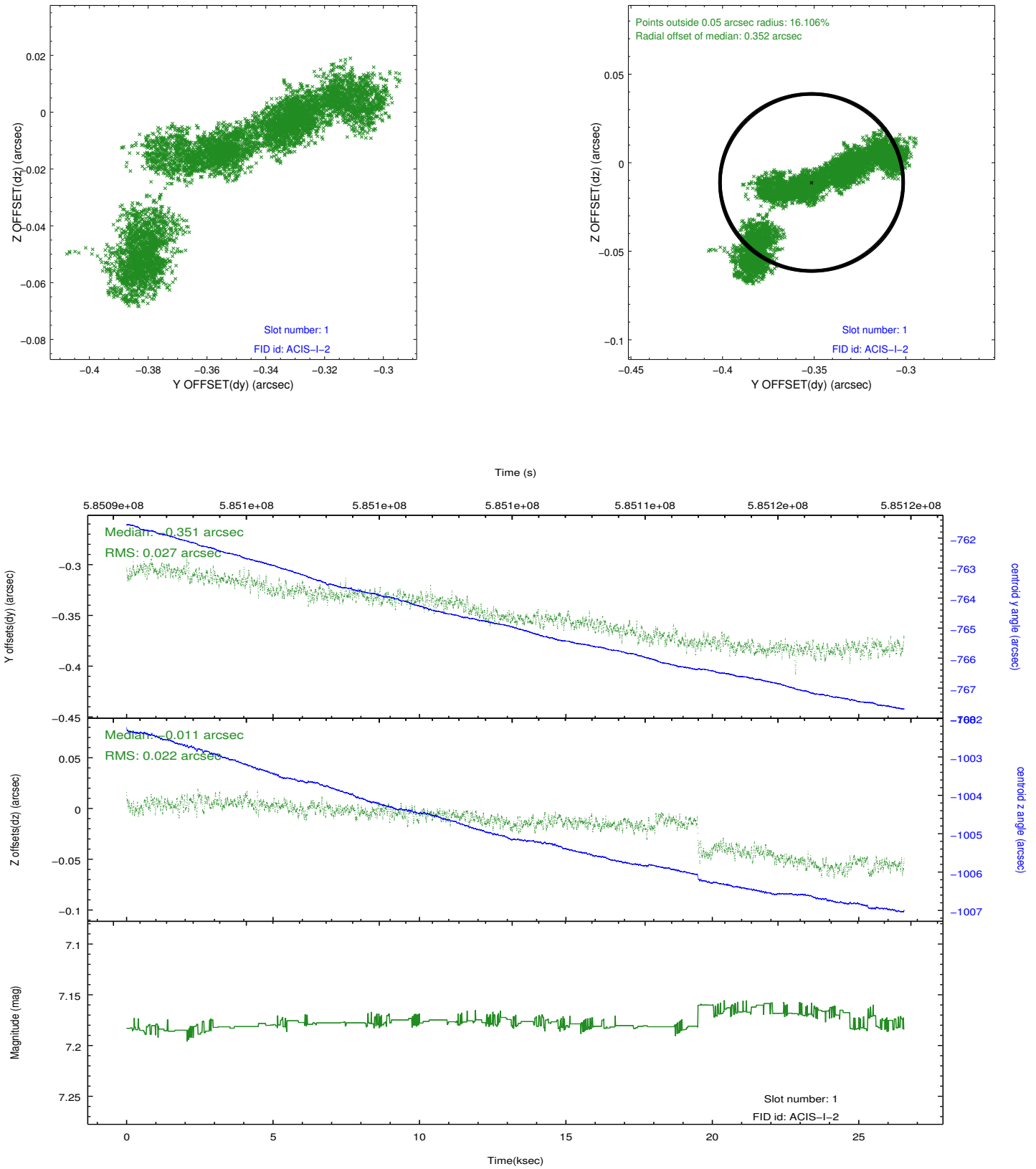


2.5 FID Slots

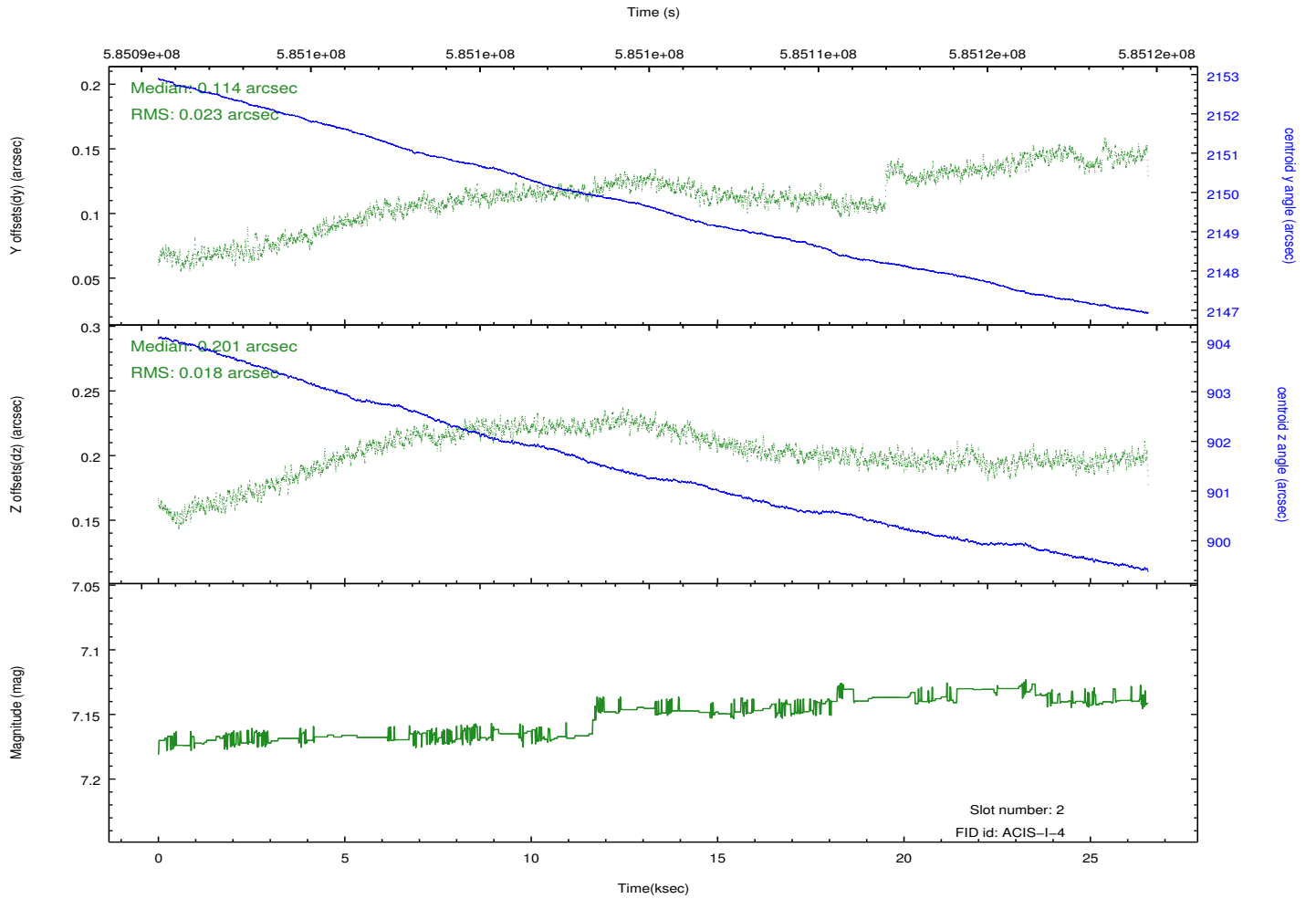
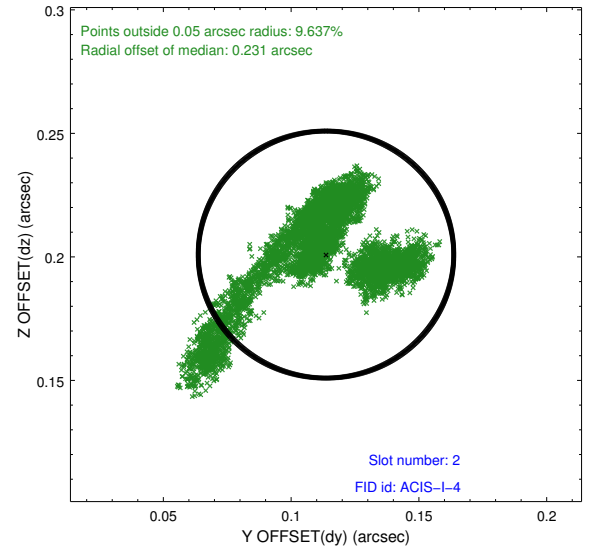
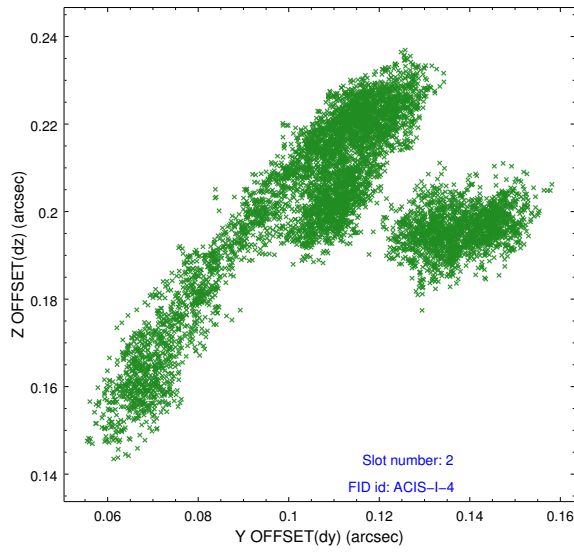
2.5.1 Slot 0



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)	2016.07.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.48635921371

A.2 Comments