

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19586 - L2 Version 1
Chandra X-Ray Center

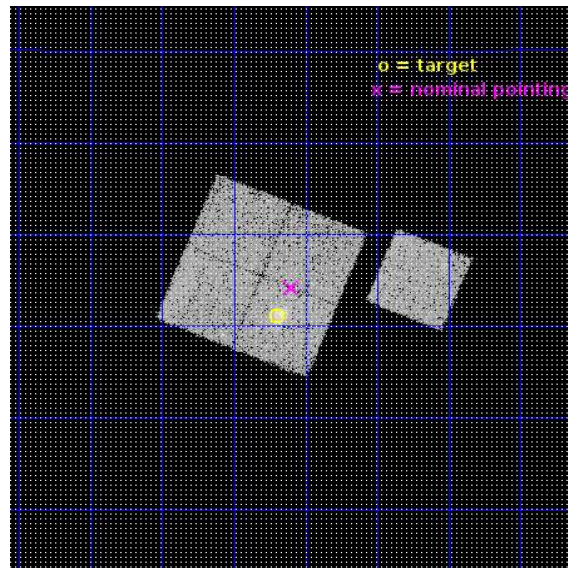
L2 Processing Date : Aug 19 2017

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1 Front

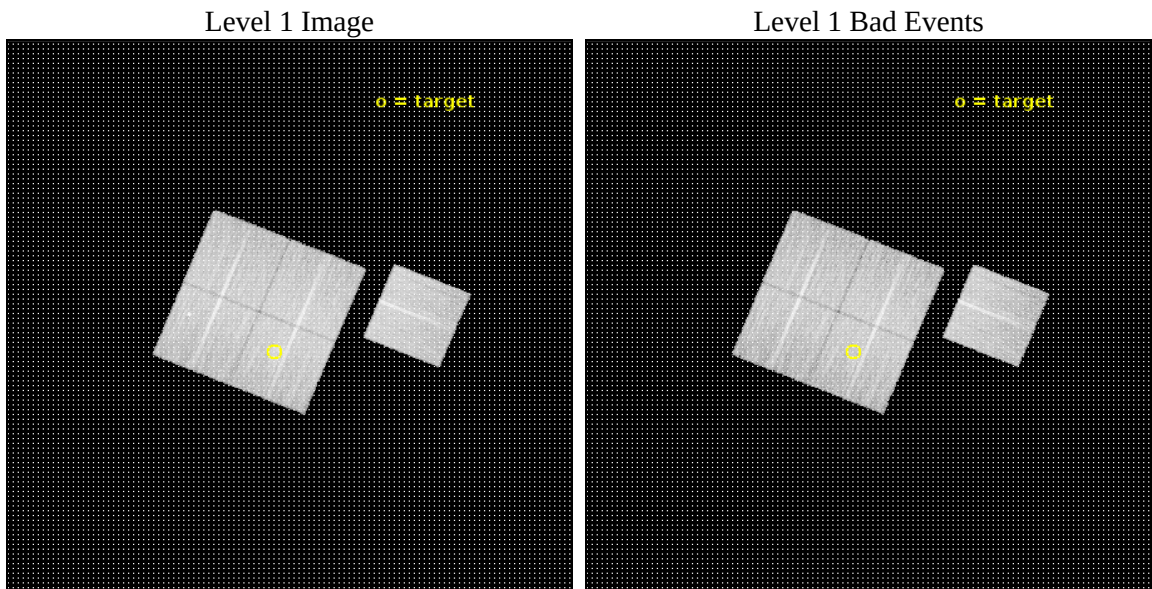
seq_num	801675	Sequence number
obs_id	19586	Observation id
title	A multiwavelength view of the intracluster medium at intermediate redshift in a mass-limited sample of ACTPol clusters	Proposal title
observer	Matt Hilton	Principal investigator
object	ACT-CL J0008.2+0201	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	2.05	Observer's specified target RA [deg]
dec_targ	2.017111	Observer's specified target Dec [deg]
ra_nom	2.0245309886165	Nominal RA [deg]
dec_nom	2.0692915409877	Nominal Dec [deg]
roll_nom	112.2095928389	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19052.600146651	Sum of GTIs [s]
livetime	18803.663899415	Livetime [s]
ontime0	19052.600146651	Sum of GTIs [s]
ontime1	19049.459076405	Sum of GTIs [s]
ontime2	19052.600146651	Sum of GTIs [s]
ontime3	19052.600146651	Sum of GTIs [s]
ontime6	19049.459056377	Sum of GTIs [s]
l2events	62667	Number of level 2 events



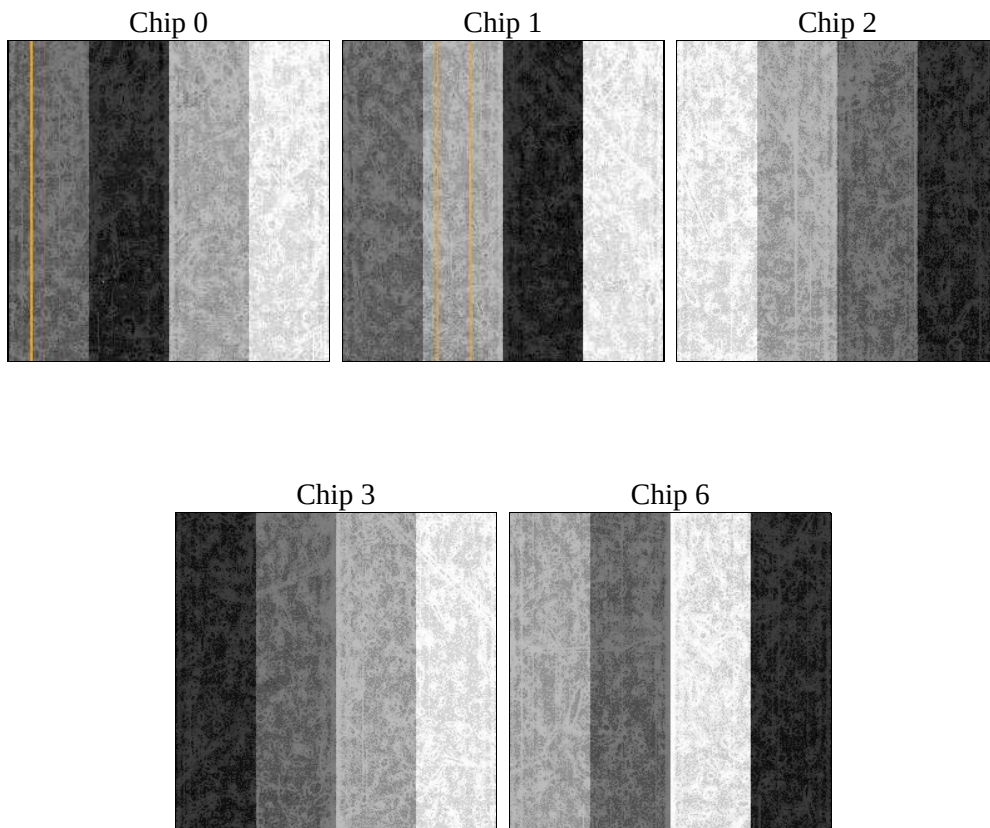
2 OBI

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	10.6	Processing system revision	ontime	19052.600146651	Sum of GTIs [s]
caldsver	4.7.5	 	ontime0	19052.600146651	Sum of GTIs [s]
date	2017-08-19T21:14:58	Date and time of file creation	ontime1	19049.459076405	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19052.600146651	Sum of GTIs [s]
			ontime3	19052.600146651	Sum of GTIs [s]
			ontime6	19049.459056377	Sum of GTIs [s]
			l1events	615598	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	117034	119439	127570	123983	127572
rejected events	102830	103124	113878	108205	112929
rejected %	87%	86%	89%	87%	88%

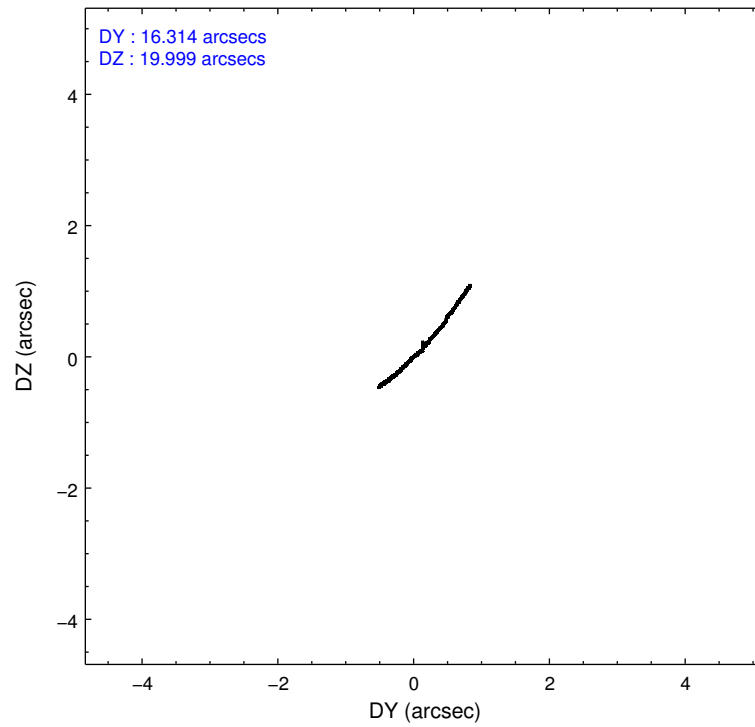
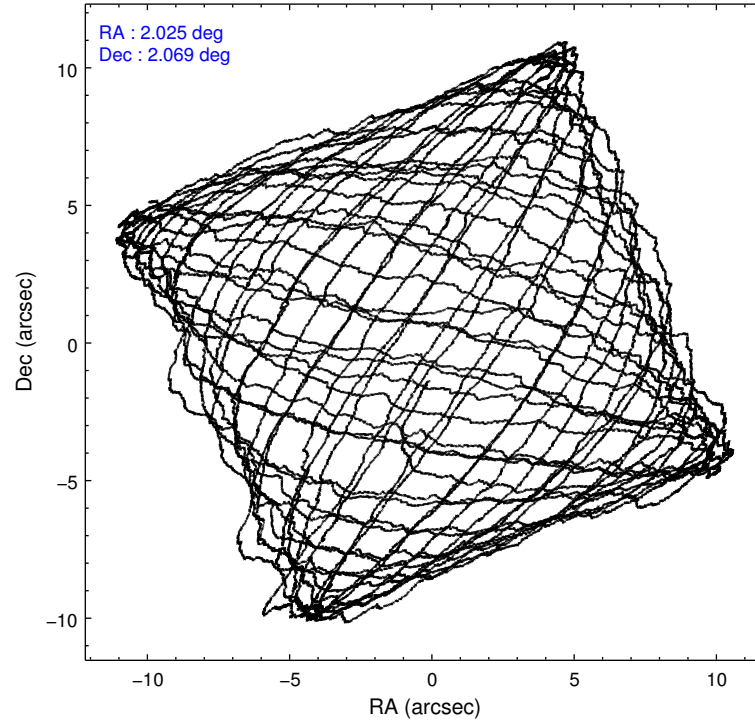
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4659	5939	4871	6655	4752
	3%	4%	3%	5%	3%
grade 1 events	69	65	51	80	54
	0%	0%	0%	0%	0%
grade 2 events	3660	3755	3378	3291	3465
	3%	3%	2%	2%	2%
grade 3 events	1528	1550	1300	1497	1535
	1%	1%	1%	1%	1%
grade 4 events	1400	1516	1402	1471	1372
	1%	1%	1%	1%	1%
grade 5 events	5359	5734	5163	6348	5950
	4%	4%	4%	5%	4%
grade 6 events	2965	3561	2745	2869	3525
	2%	2%	2%	2%	2%
grade 7 events	97394	97319	108660	101772	106919
	83%	81%	85%	82%	83%

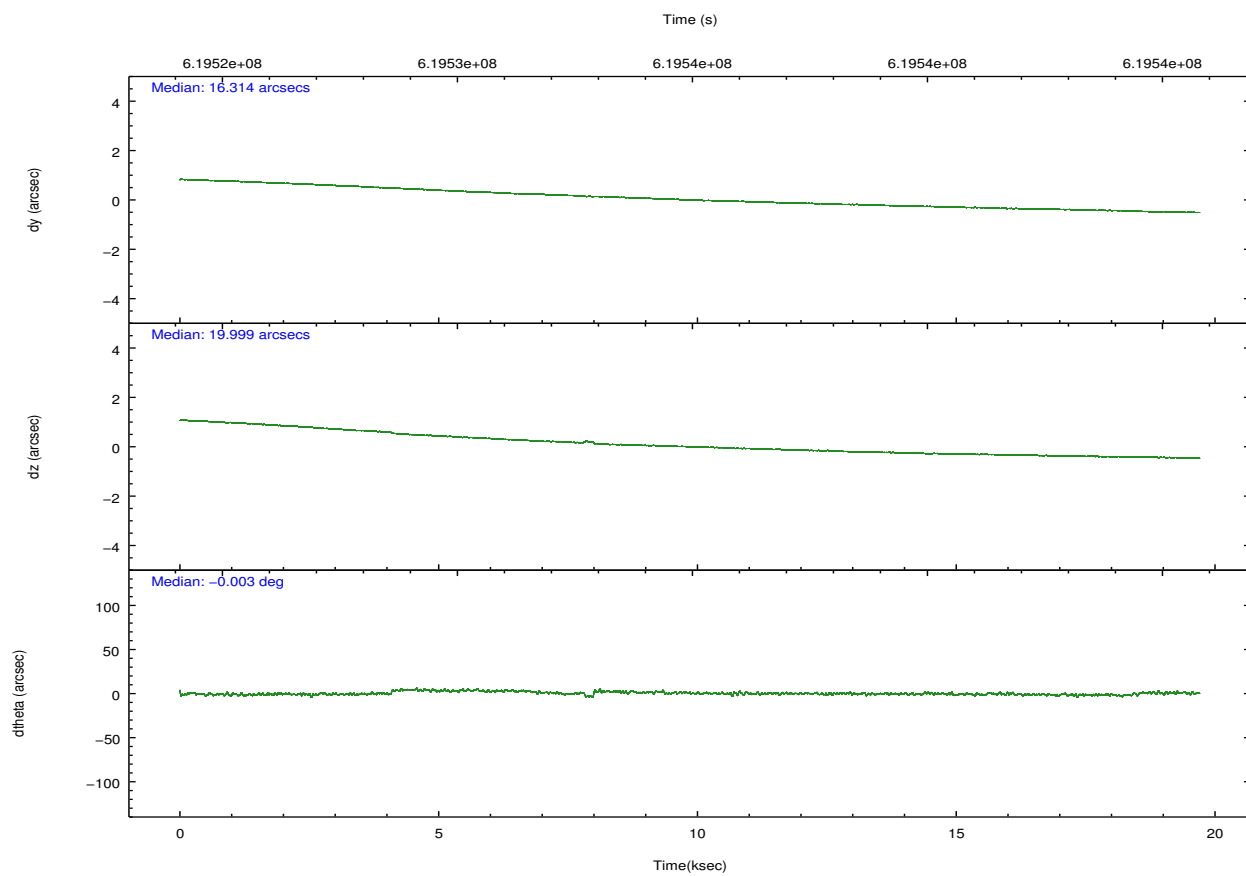
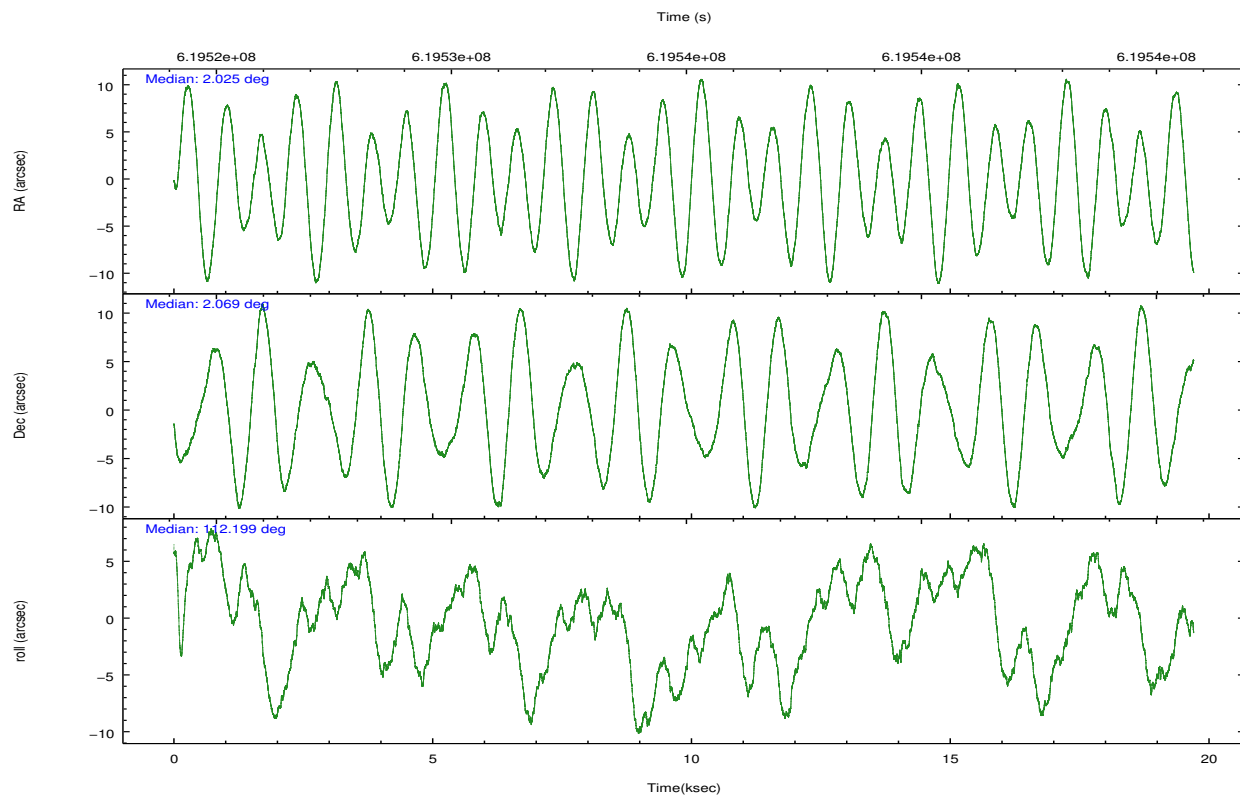
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	2.046403	2.024530988616505
[deg] Pointing Dec	2.052478	2.069291540987685
[deg] Pointing Roll	112.000120	112.2095928389008
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.792463	-225.7829997647864
[mm] SIM translation stage offset	-7.8	-7.809453238143249
[s] Observation start time (MET)	619525787.184000	619524586.20798
Observation start date	2017-08-19T10:28:38	2017-08-19T10:09:46
[s] Observation end time (MET)	619545787.184000	619546245.4842499
Observation end date	2017-08-19T16:01:58	2017-08-19T16:10:45
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	Y	Y
CCD S3 on	O1	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



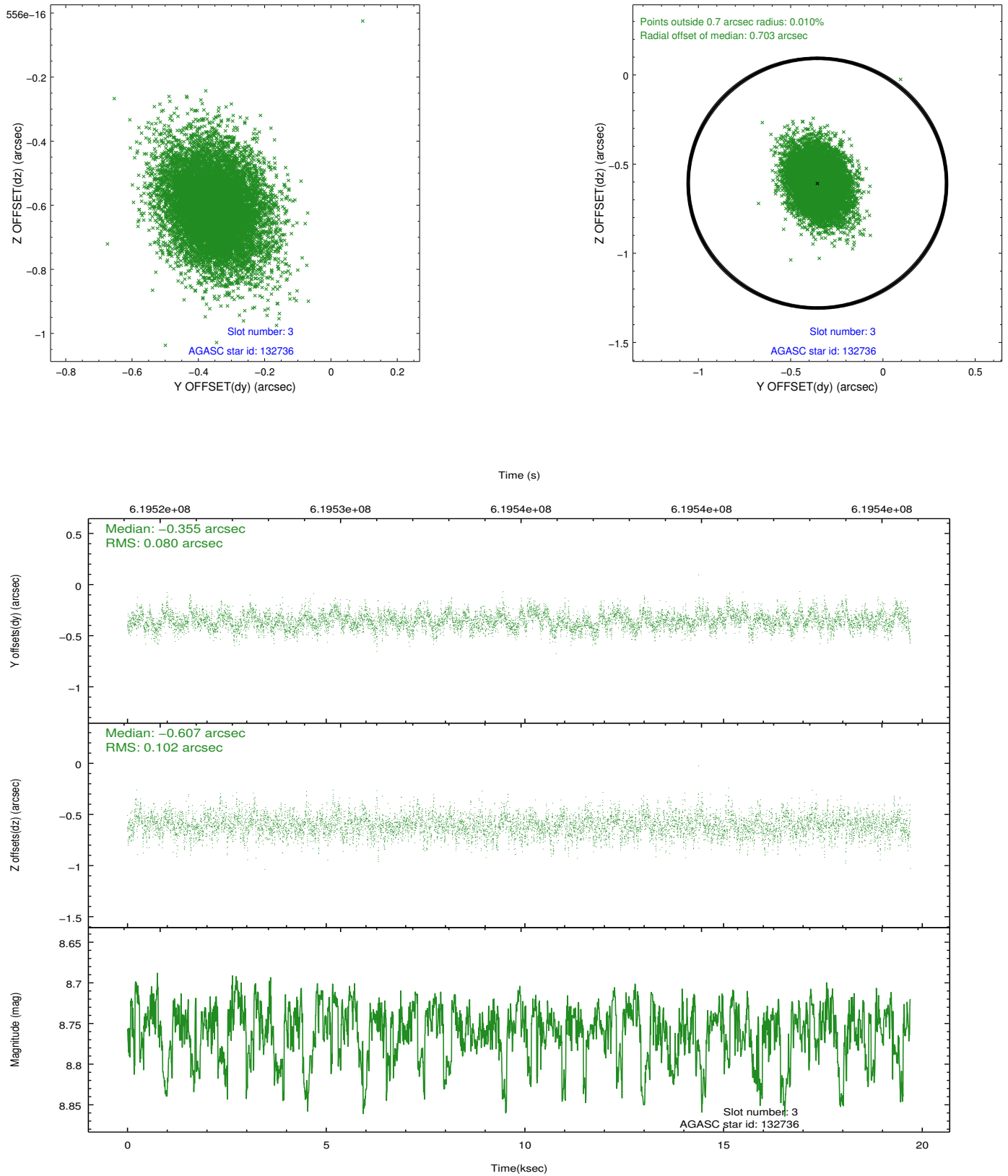


Slot Statistics

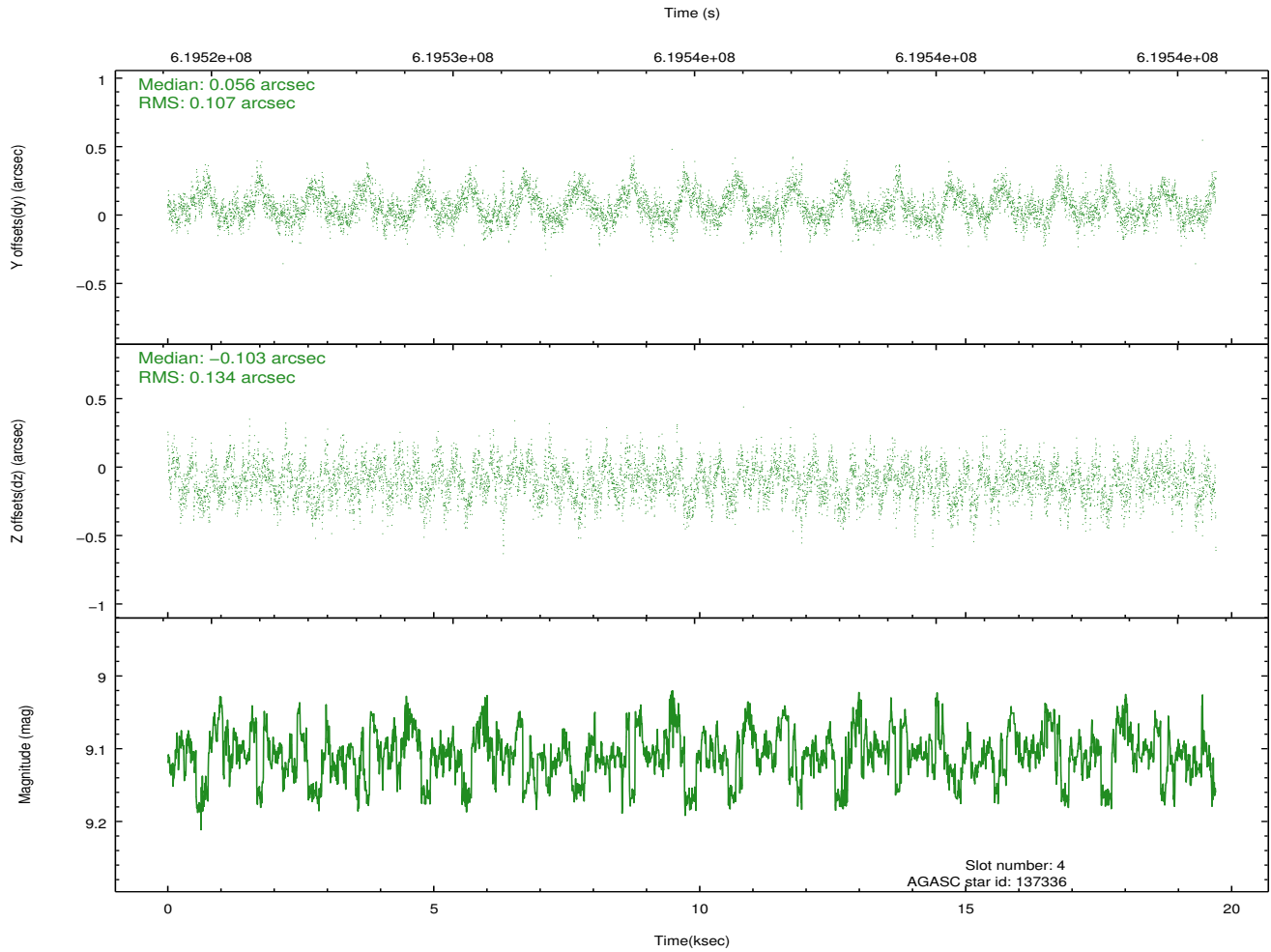
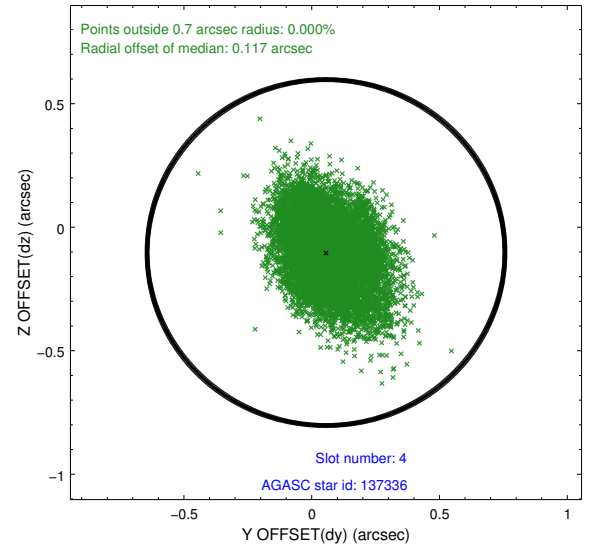
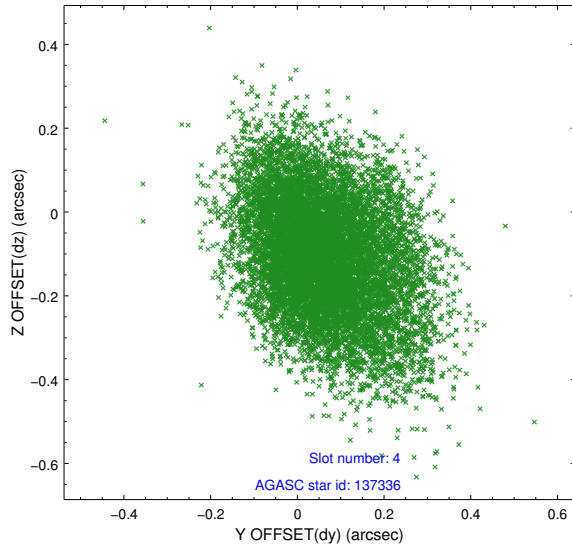
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.14	4806	0.136	-0.123	0.017	0.051	0.000000	0.000000	923.03	-1004.28
1	FID		ACIS-I-2	7.10	4805	-0.437	-0.073	0.012	0.041	0.000000	0.000000	-771.93	-1009.78
2	FID		ACIS-I-4	7.04	4805	0.201	0.263	0.013	0.034	0.000000	0.000000	2142.44	896.77
3	GUIDE	used	132736	8.76	9607	-0.355	-0.607	0.135	0.226	1.292421	2.397203	2166.02	2049.11
4	GUIDE	used	137336	9.11	9601	0.056	-0.103	0.182	0.300	1.718151	1.861024	-196.27	1352.66
5	GUIDE	used	141784	8.98	9601	0.012	-0.128	0.134	0.234	1.831012	1.665078	-1002.02	1242.60
6	GUIDE	used	270656	7.66	9613	0.246	0.573	0.160	0.268	2.669678	2.055537	-828.09	-2082.44
7	GUIDE	used	524760	9.68	9459	0.028	0.277	0.262	0.418	2.462248	2.693441	1580.19	-2250.34

2.4 Star Slots

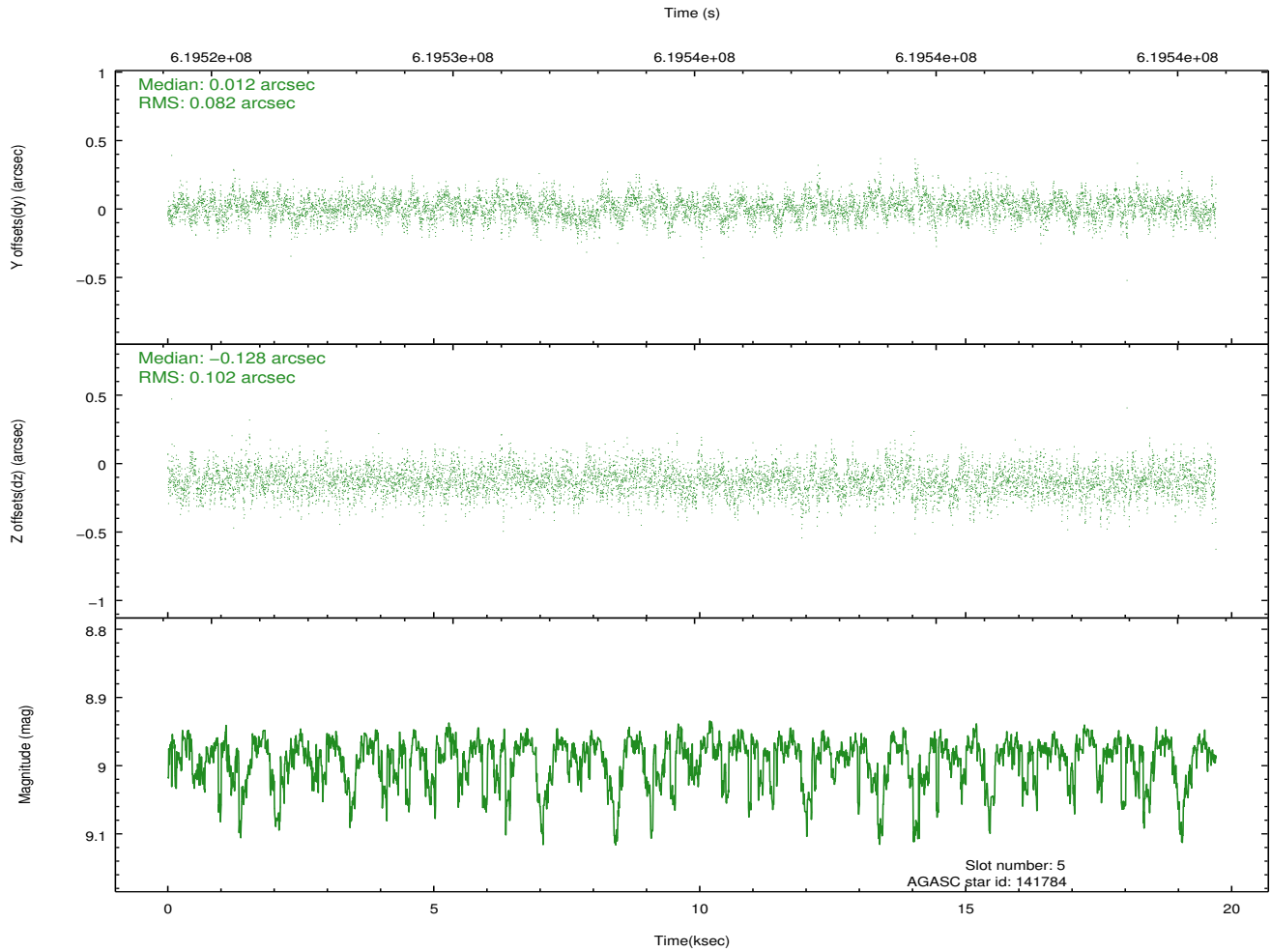
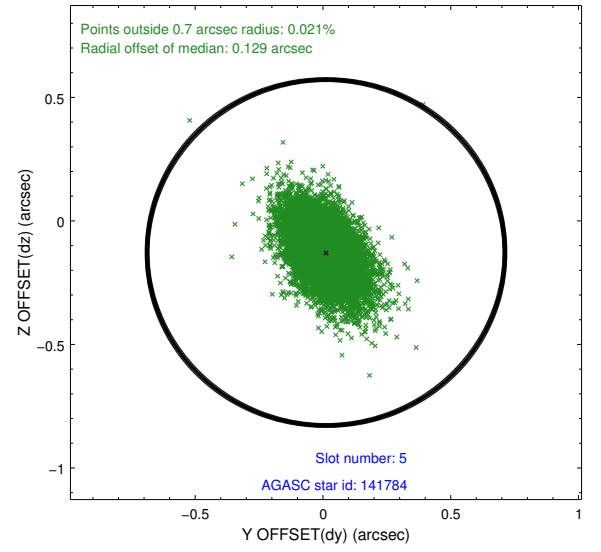
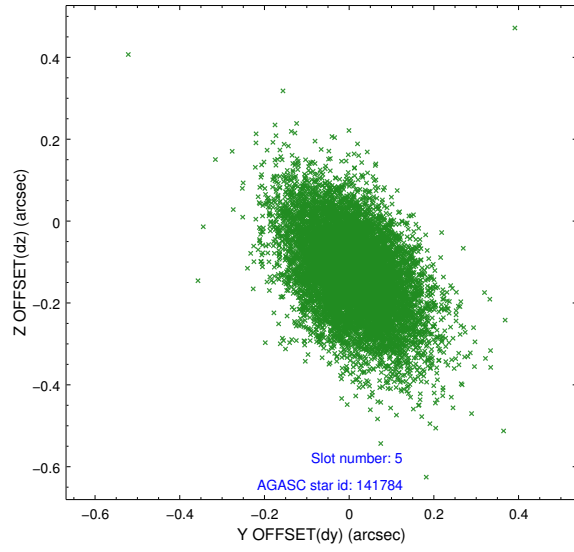
2.4.1 Slot 3



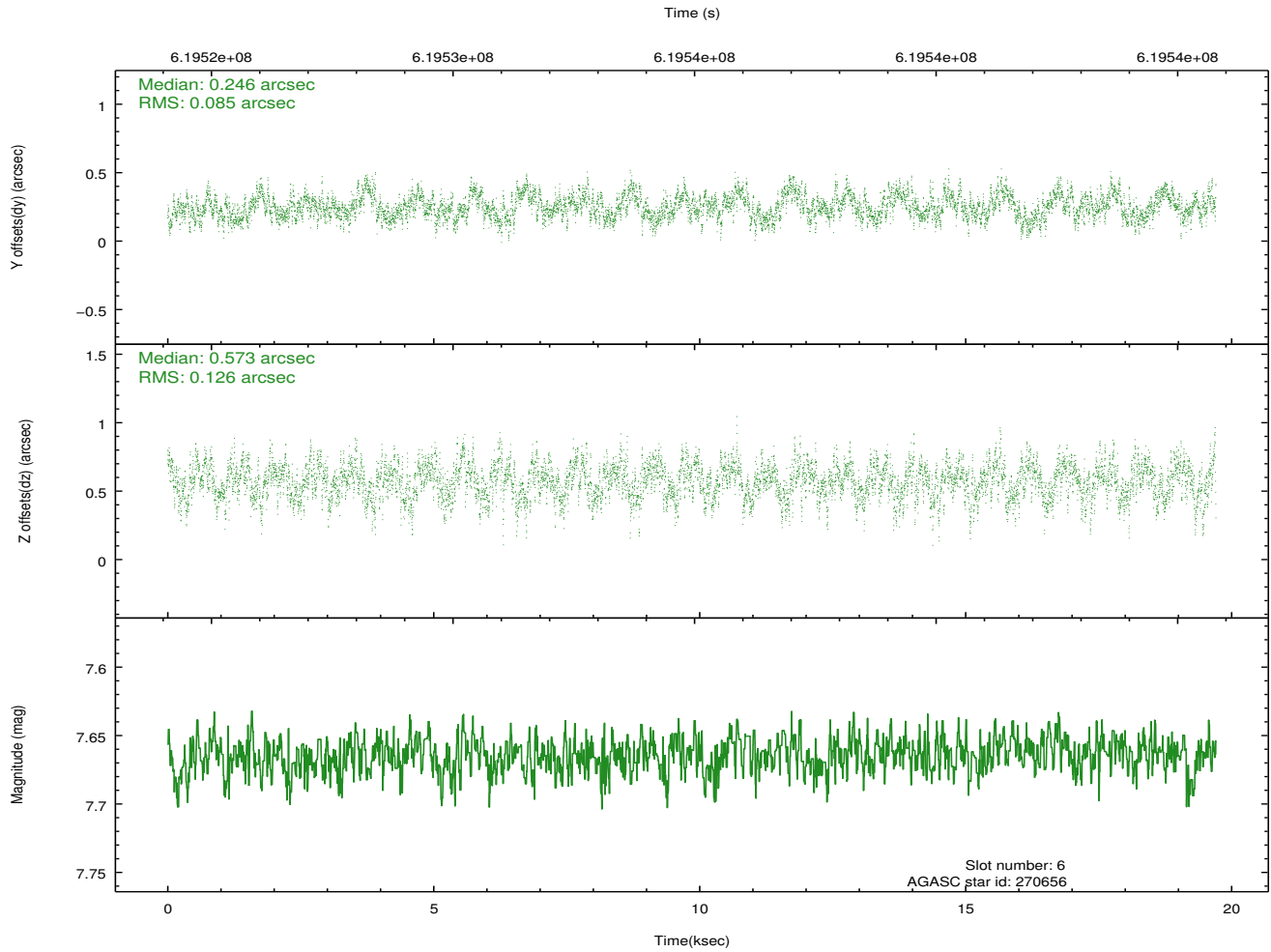
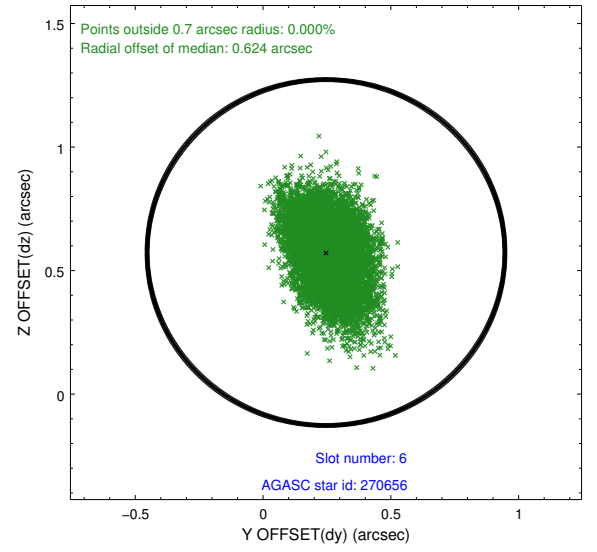
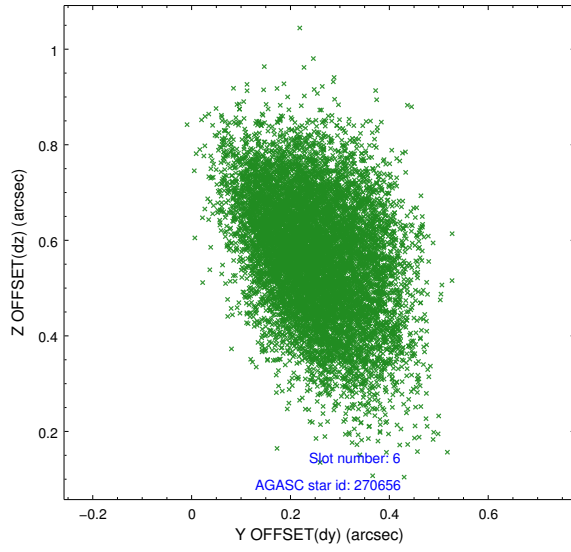
2.4.2 Slot 4



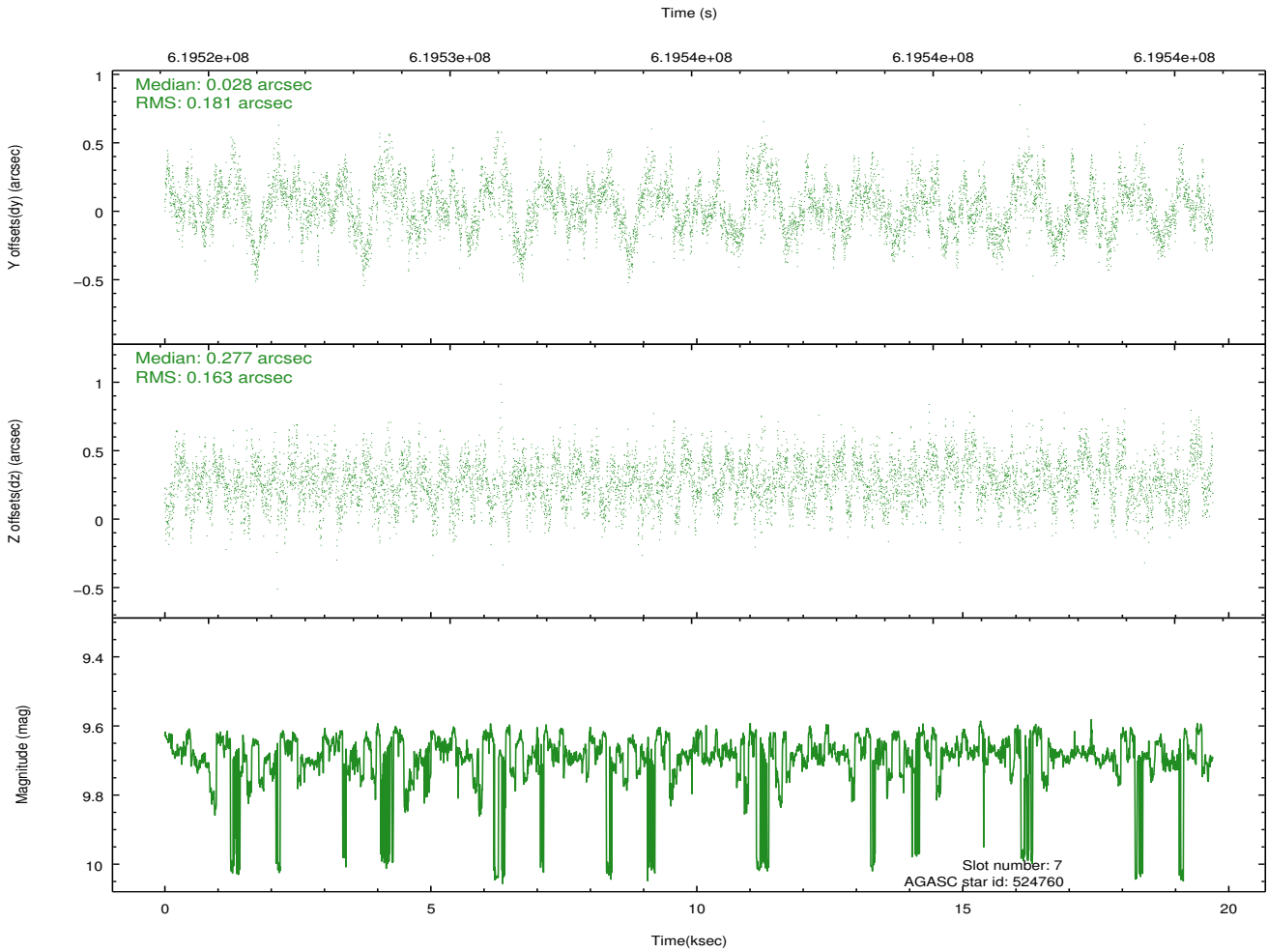
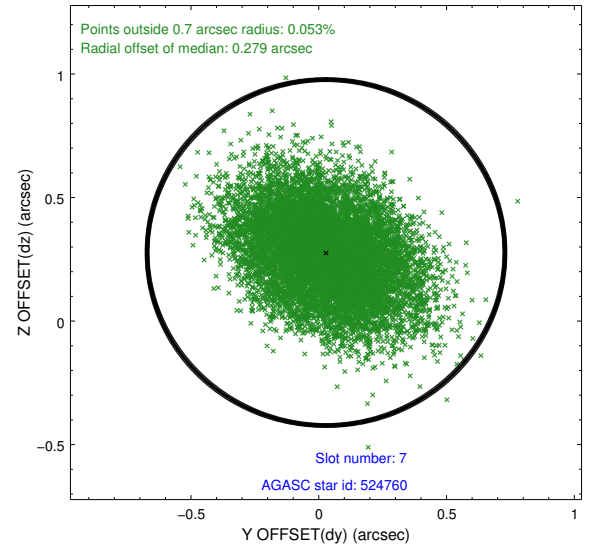
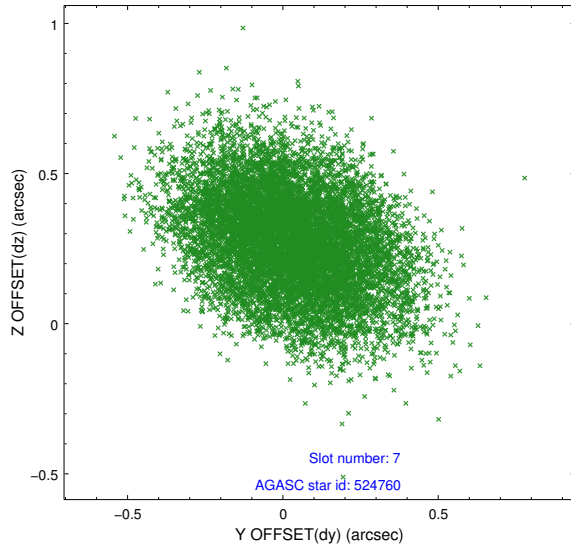
2.4.3 Slot 5



2.4.4 Slot 6

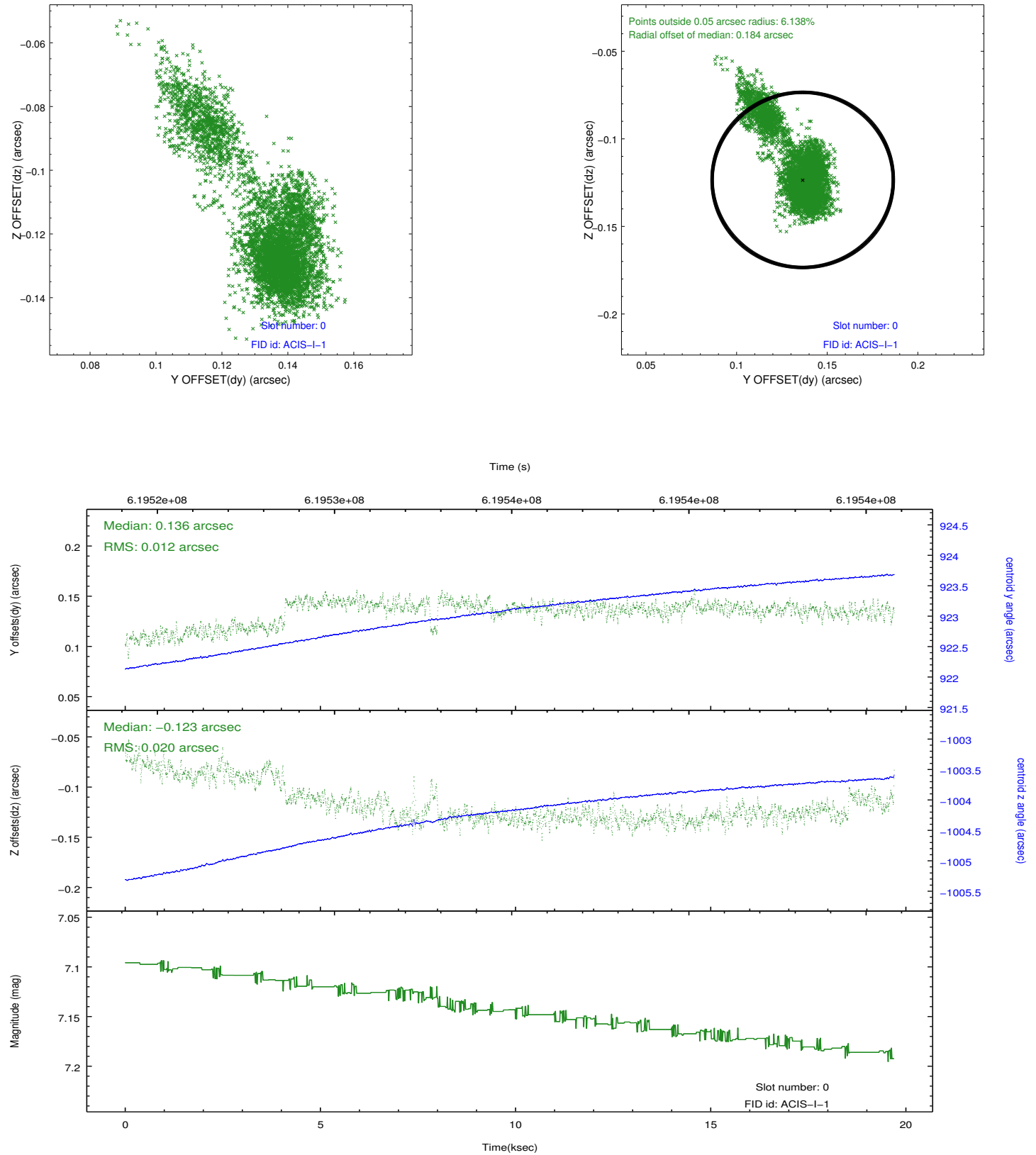


2.4.5 Slot 7

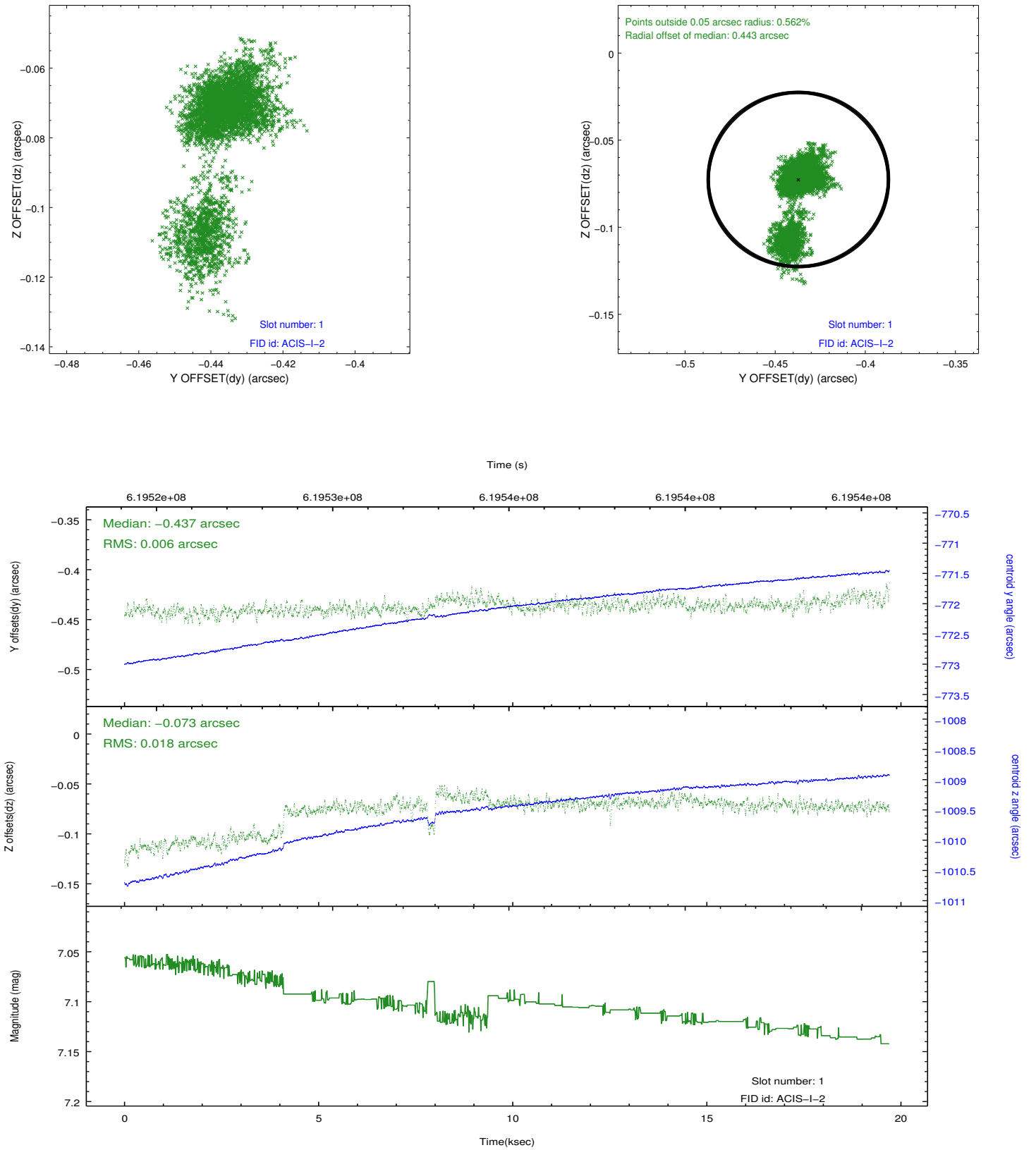


2.5 FID Slots

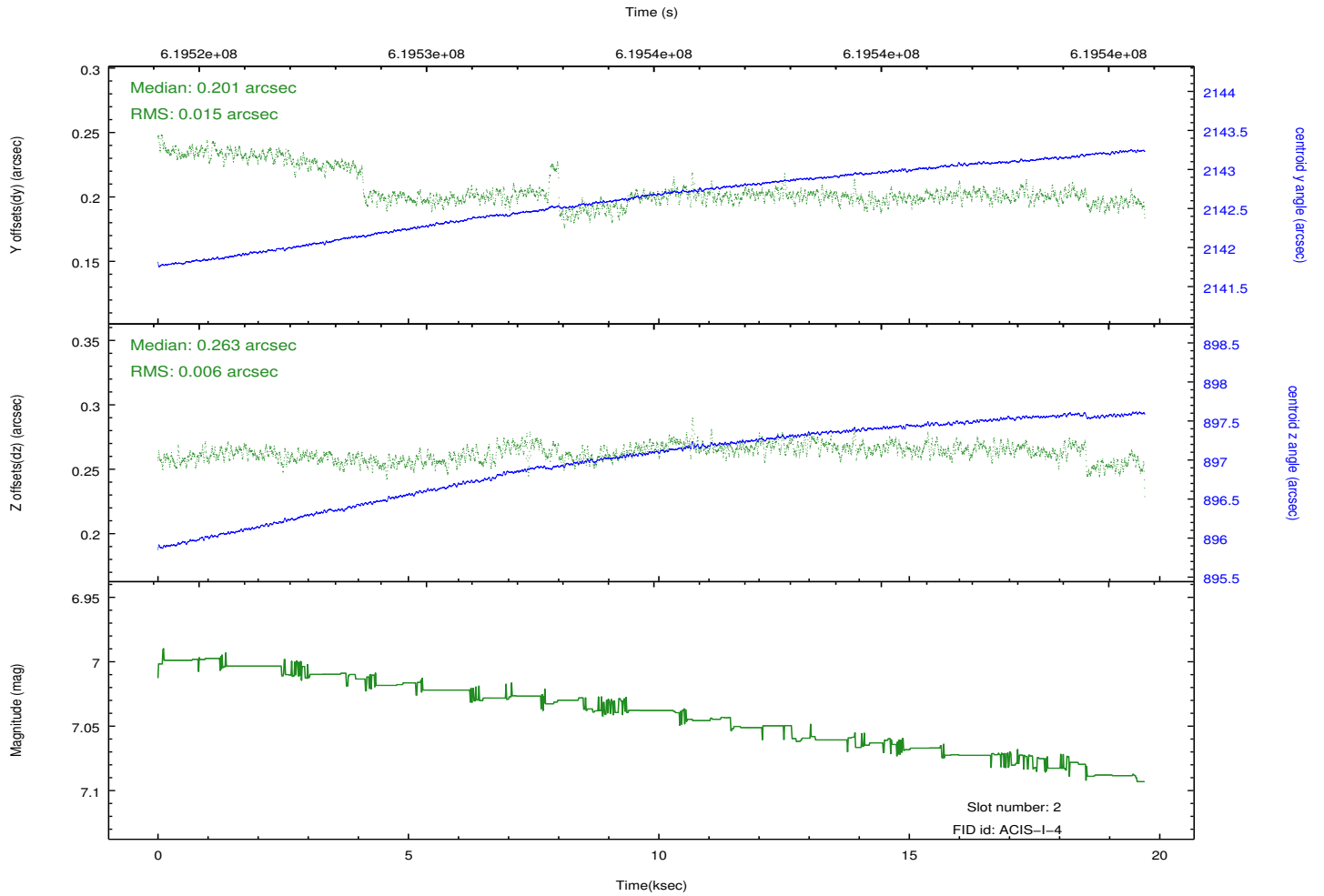
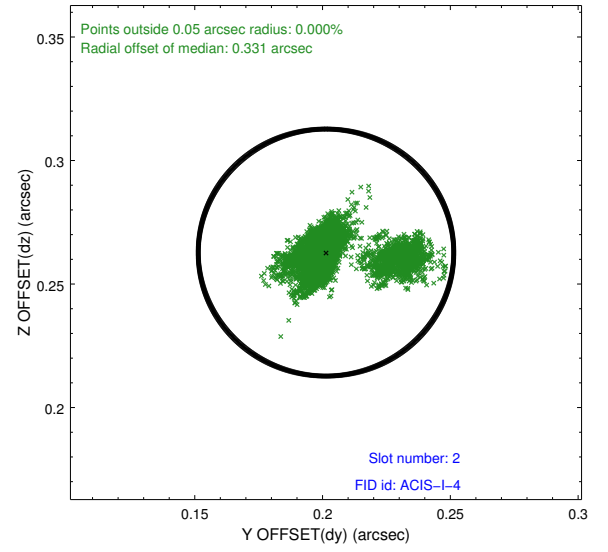
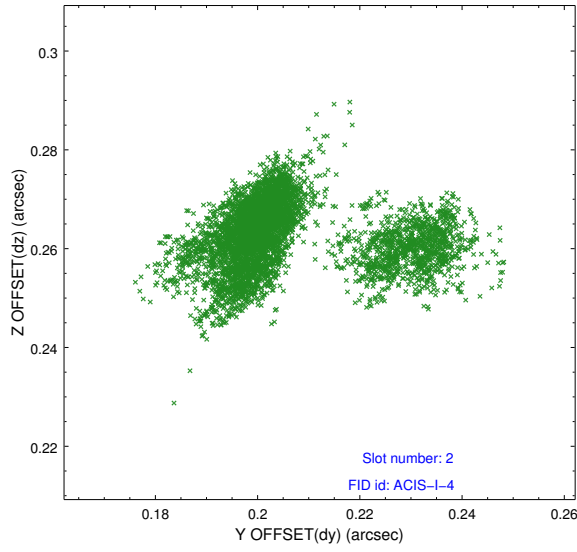
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.08.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.052600146651

A.2 Comments