

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17671 - L2 Version 2
Chandra X-Ray Center

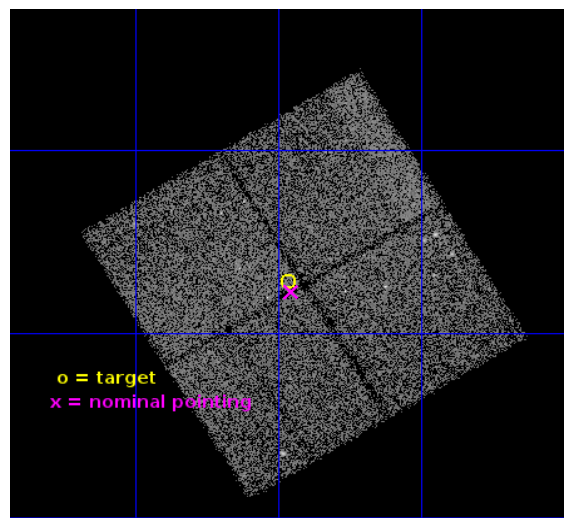
L2 Processing Date : Jun 30 2015

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1 Front

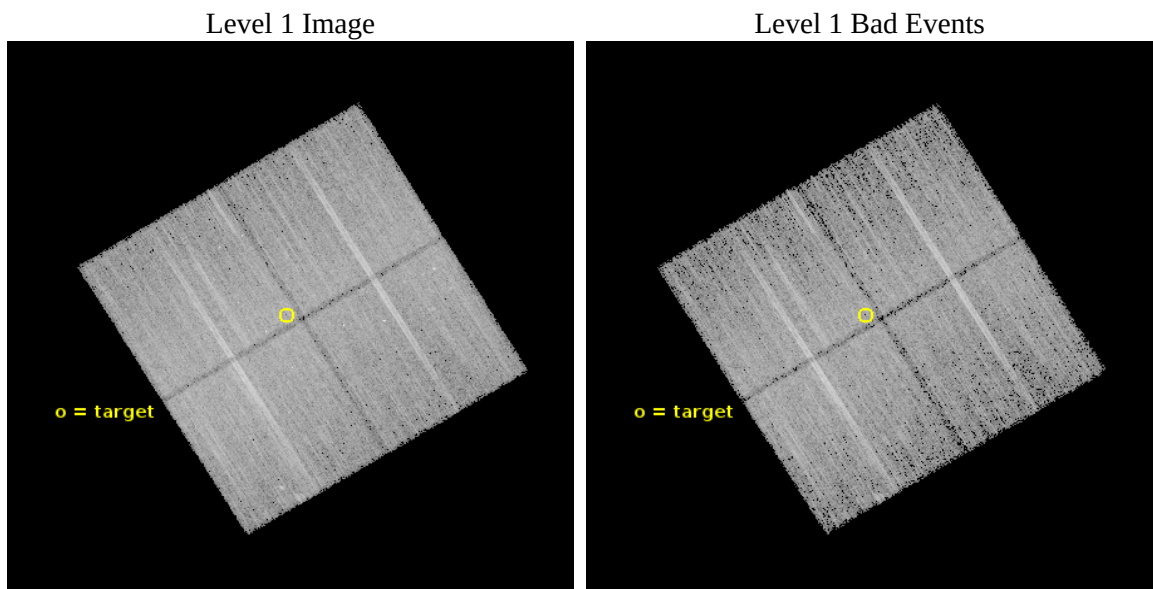
seq_num	703139	Sequence number
obs_id	17671	Observation id
title	Constraining the X-ray AGN Fraction Within Filaments of Galaxies	P
observer	Professor Jimmy Irwin	Principal investigator
object	Abell1882 - Filament #2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	213.490833	Observer's specified target RA [deg]
dec_targ	-0.285444	Observer's specified target Dec [deg]
ra_nom	213.4887028111	Nominal RA [deg]
dec_nom	-0.29524454167187	Nominal Dec [deg]
roll_nom	238.70867566928	Nominal Roll [deg]
revision	2	Processing version of data
ontime	35231.500271082	Sum of GTIs [s]
livetime	34771.174782987	Livetime [s]
ontime0	35231.500271082	Sum of GTIs [s]
ontime1	35228.359300852	Sum of GTIs [s]
ontime2	35222.077310443	Sum of GTIs [s]
ontime3	35231.500271082	Sum of GTIs [s]
l2events	69333	Number of level 2 events



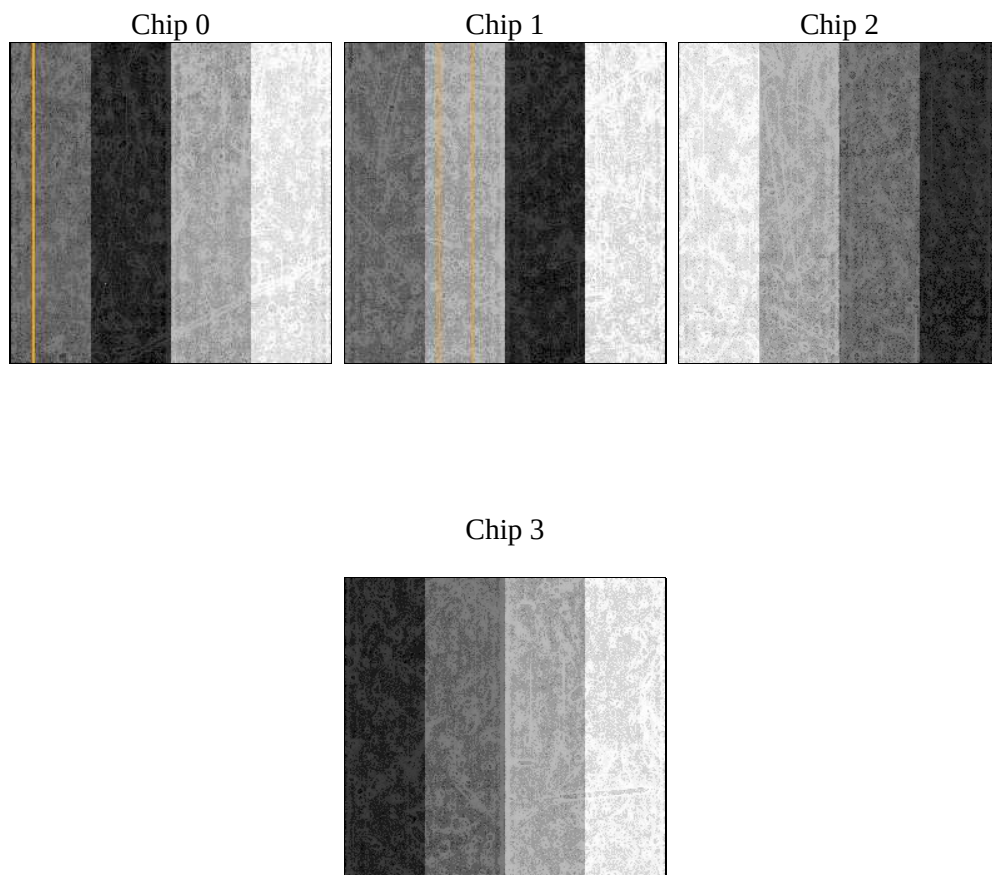
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	35154.847000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	35231.500271082	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	35231.500271082	Sum of GTIs [s]
date	2015-06-30T21:25:03	Date and time of file creation	ontime1	35228.359300852	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	35222.077310443	Sum of GTIs [s]
			ontime3	35231.500271082	Sum of GTIs [s]
			l1events	663087	Number of level 1 events

2.1.4 Events

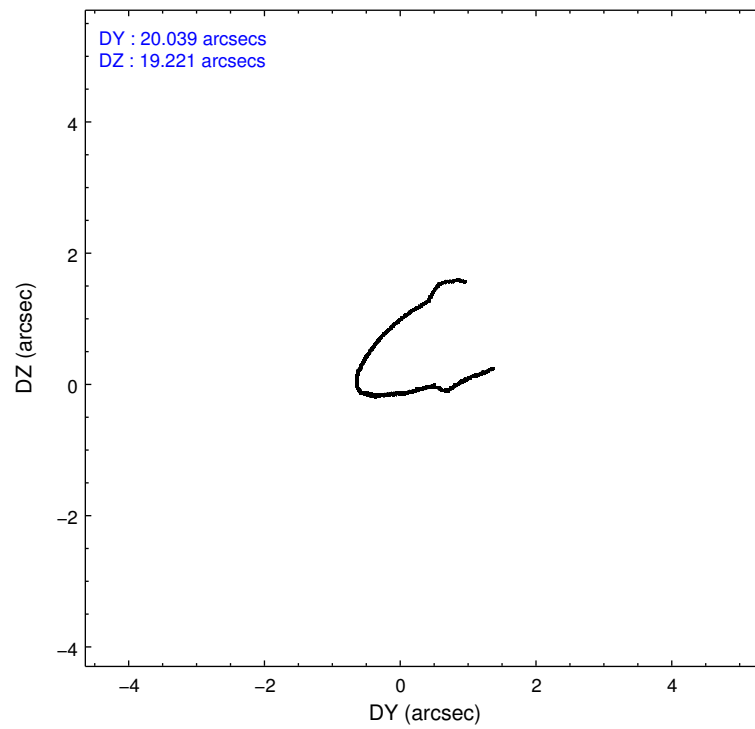
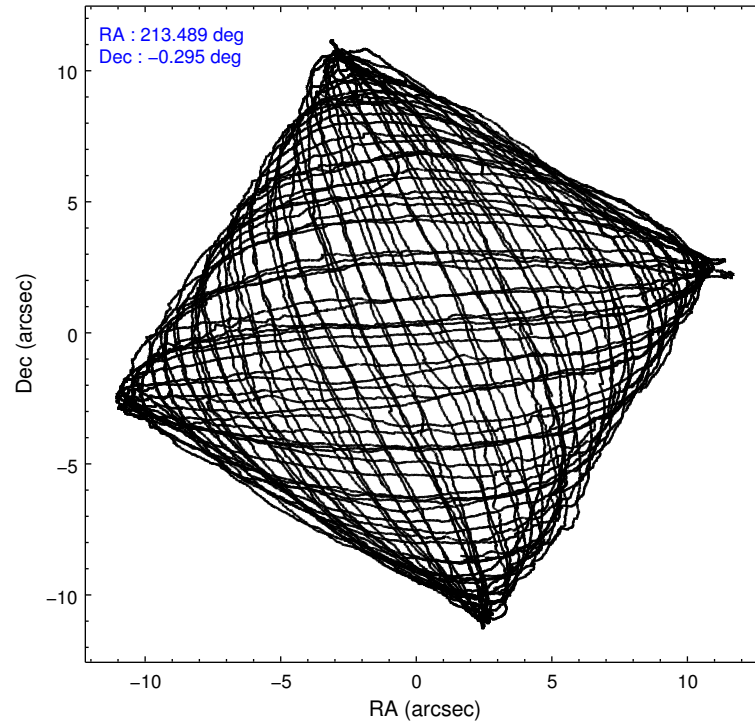
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	153685	159176	177761	172465
rejected events	131798	136848	155797	152570
rejected %	85%	85%	87%	88%

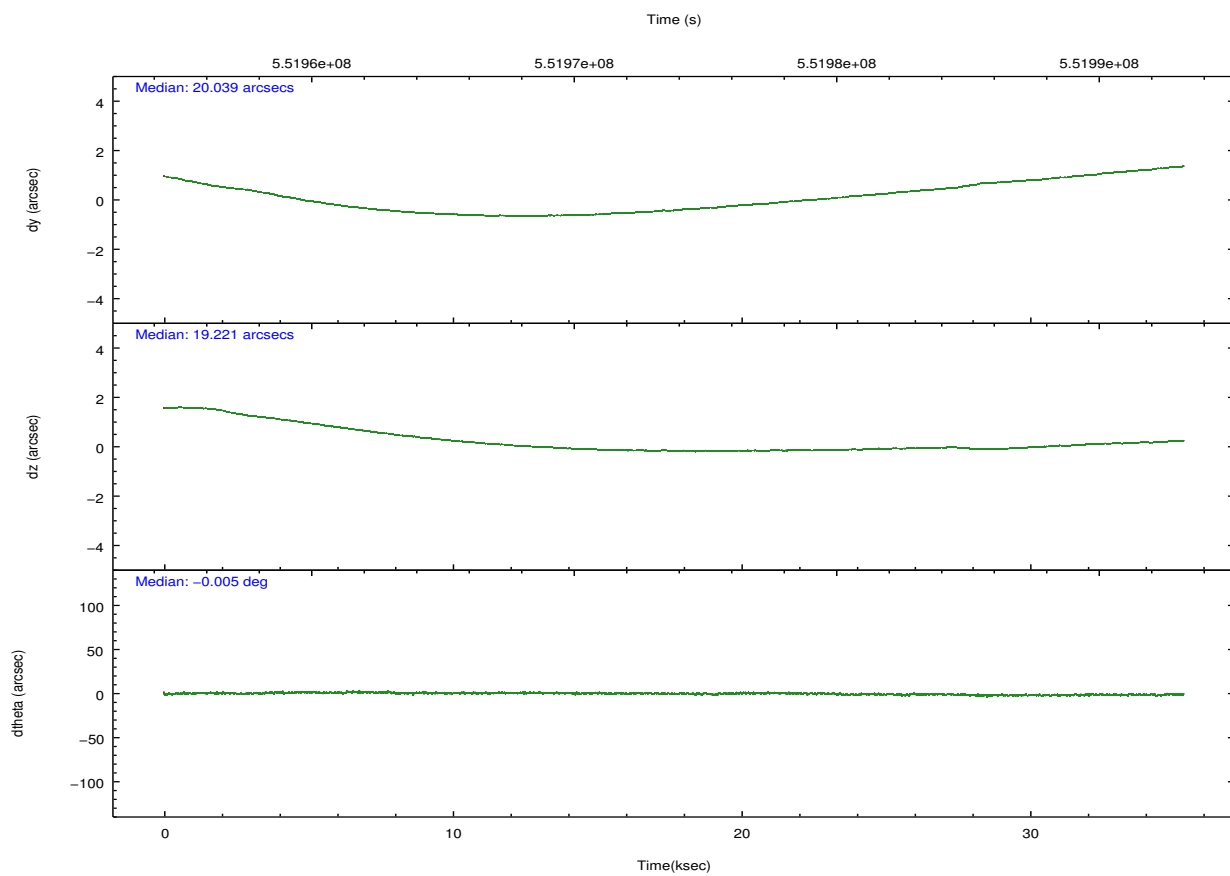
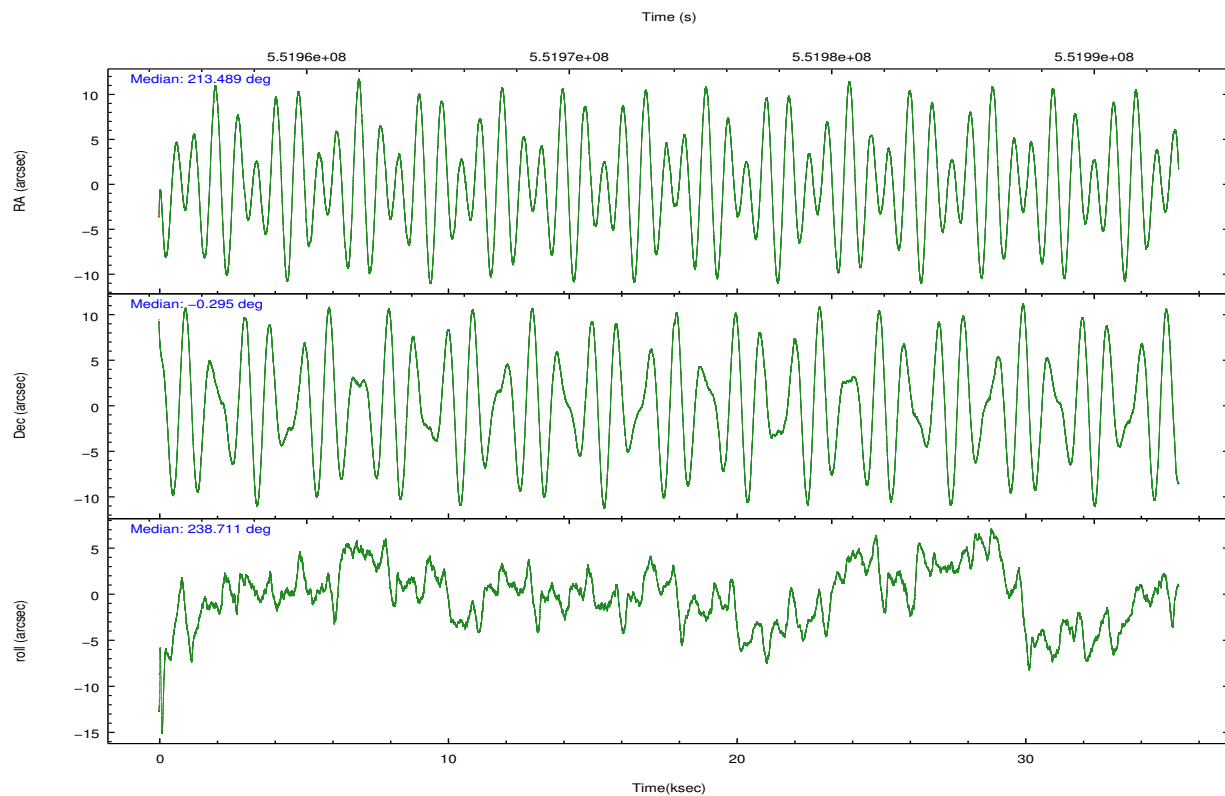
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8122	7687	8251	7448
	5%	4%	4%	4%
grade 1 events	94	85	102	98
	0%	0%	0%	0%
grade 2 events	5731	5636	5607	4468
	3%	3%	3%	2%
grade 3 events	2002	2123	2004	1981
	1%	1%	1%	1%
grade 4 events	1930	2093	2190	1990
	1%	1%	1%	1%
grade 5 events	7613	8006	7348	8669
	4%	5%	4%	5%
grade 6 events	4103	4796	3914	4013
	2%	3%	2%	2%
grade 7 events	124090	128750	148345	143798
	80%	80%	83%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	213.489227	213.4887028110969	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.267650	-0.2952445416718719	Alternating exposures requested	N	N
[deg] Pointing Roll	238.499993	238.7086756692833	[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)	551956300.184000	551955192.7322201			
Observation start date	2015-06-29T09:10:33	2015-06-29T08:53:12			
[s] Observation end time (MET)	551991455.184000	551991691.95927			
Observation end date	2015-06-29T18:56:28	2015-06-29T19:01:31			
Read mode	TIMED	TIMED			

2.3 Aspect



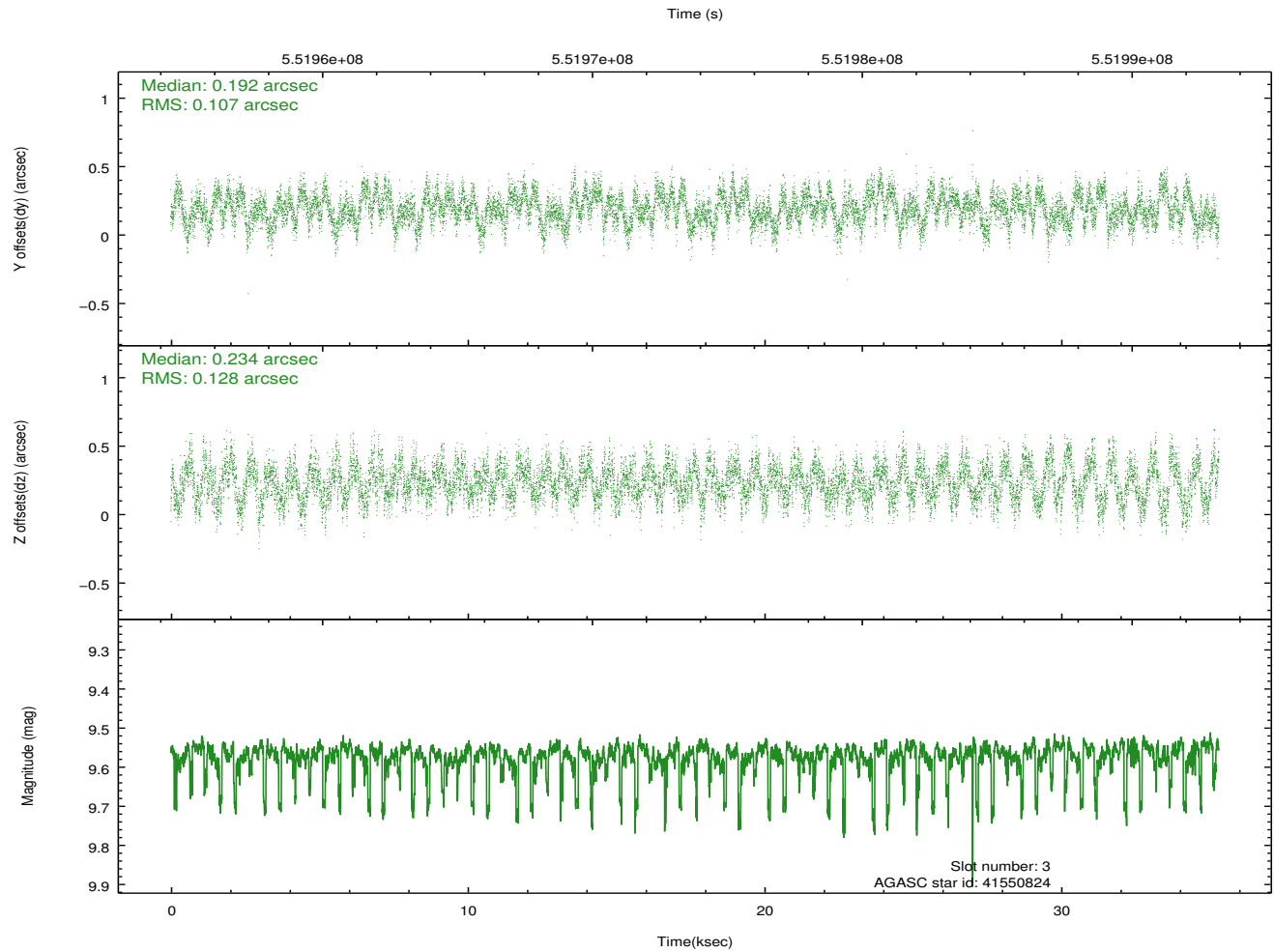
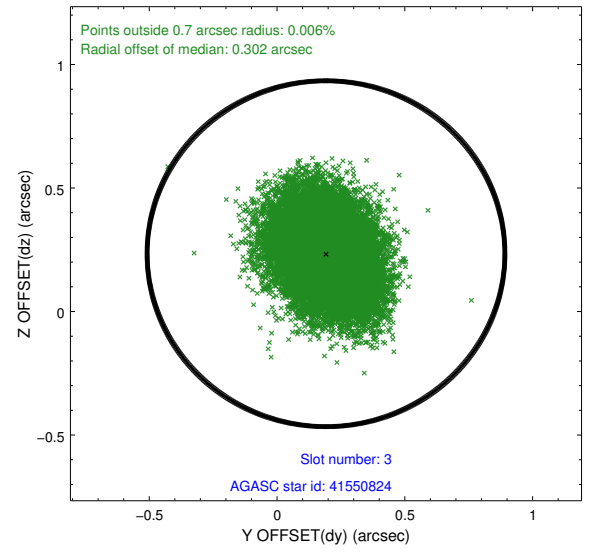
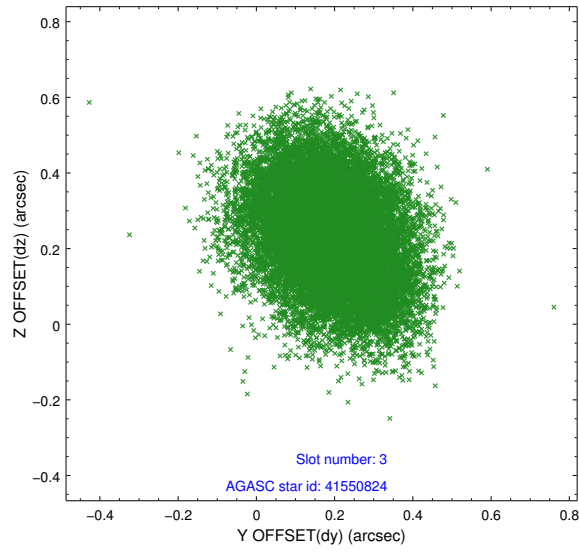


Slot Statistics

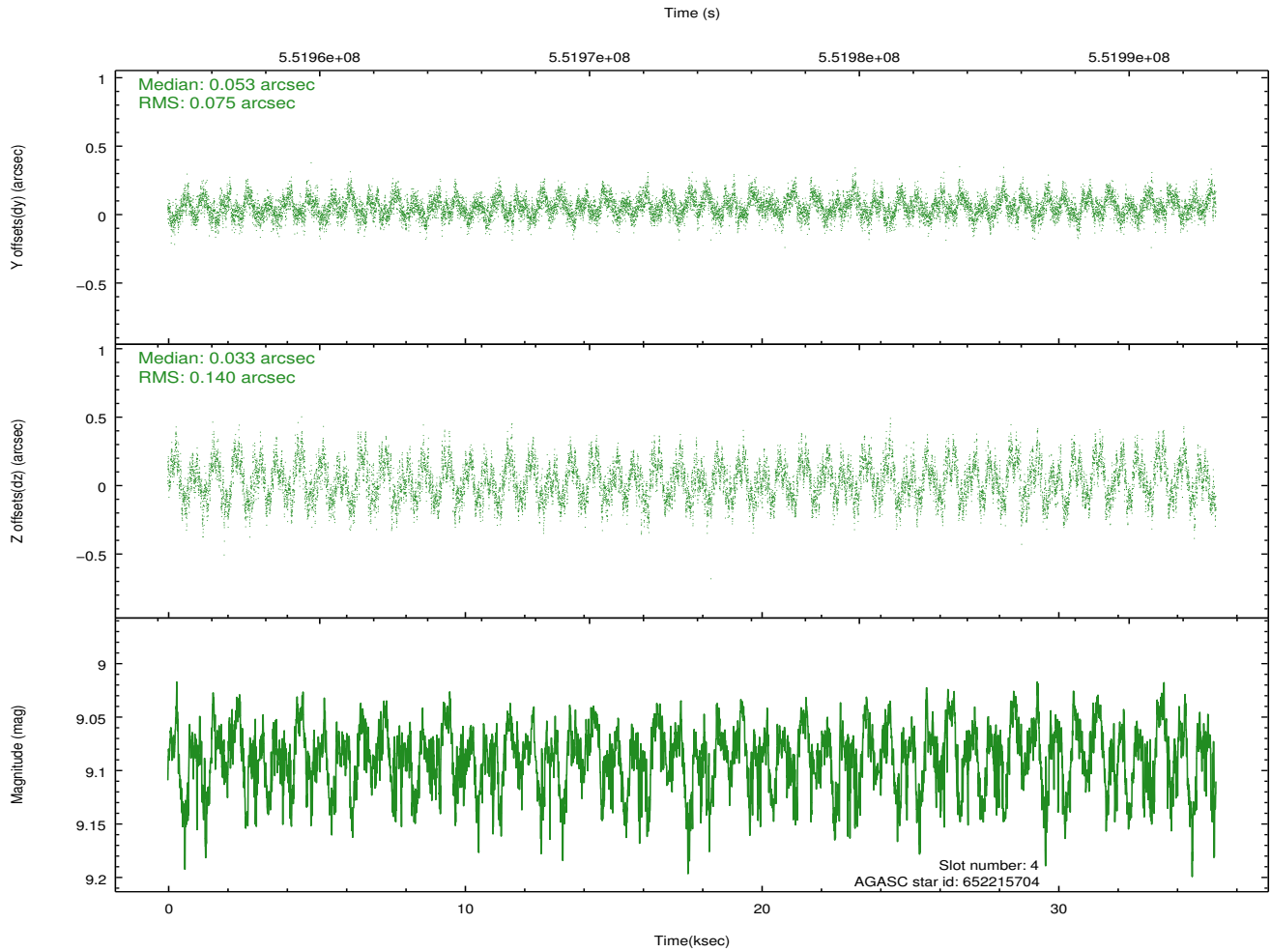
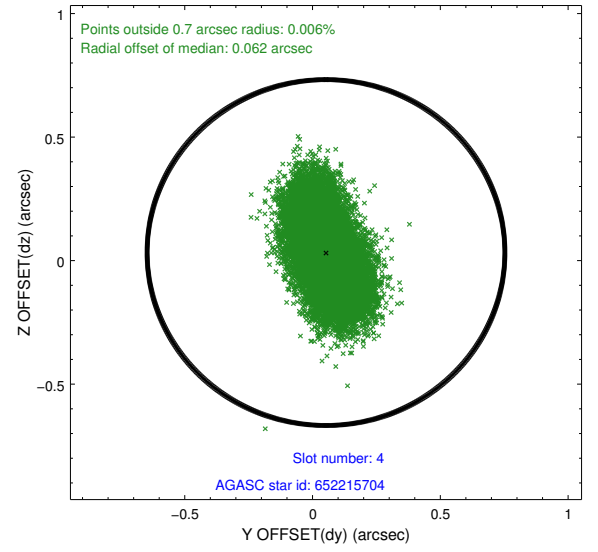
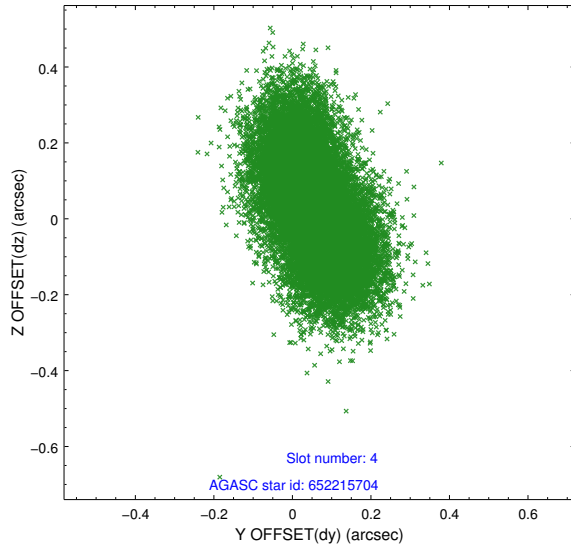
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	8616	-0.037	-0.020	0.016	0.073	0.000000	0.000000	919.19	-843.16
1	FID		ACIS-I-4	7.06	8616	0.300	0.057	0.015	0.052	0.000000	0.000000	2139.48	1056.78
2	FID		ACIS-I-5	7.12	8616	-0.360	0.035	0.013	0.035	0.000000	0.000000	-1829.19	1054.44
3	GUIDE	used	41550824	9.57	17170	0.192	0.234	0.181	0.282	213.709216	0.254022	-2014.30	-306.05
4	GUIDE	used	652215704	9.09	17219	0.053	0.033	0.171	0.276	213.594661	-0.601169	825.40	950.98
5	GUIDE	used	652223856	9.11	17218	-0.203	-0.124	0.118	0.192	214.256332	-0.079315	-2019.68	2002.51
6	GUIDE	used	652224488	6.09	17231	-0.041	-0.134	0.108	0.173	213.419957	-0.845464	1903.96	878.26
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

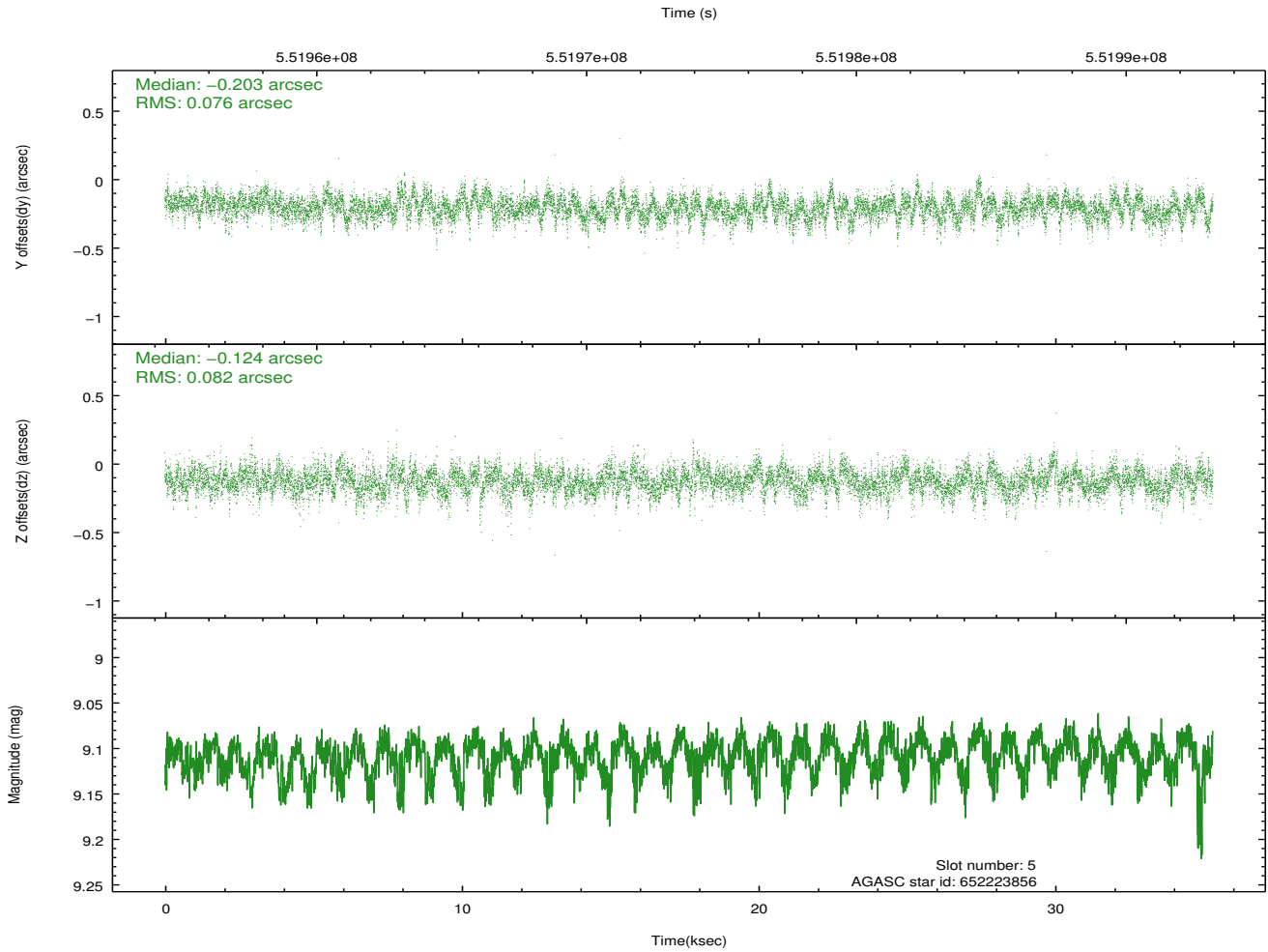
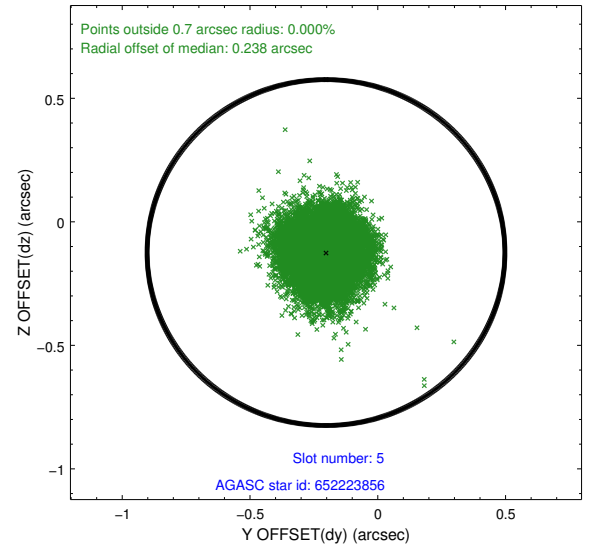
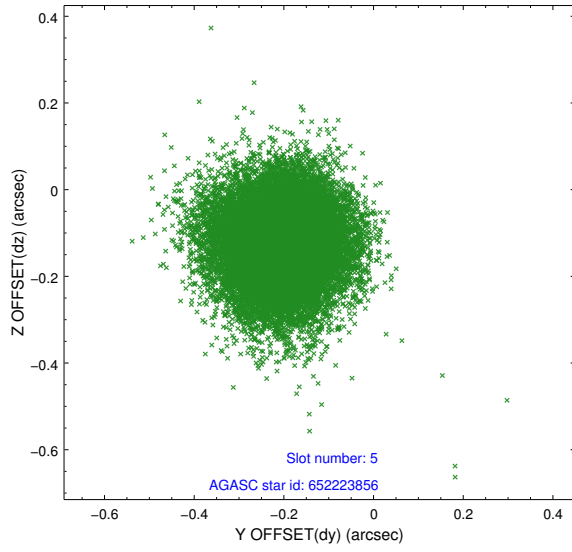
2.4.1 Slot 3



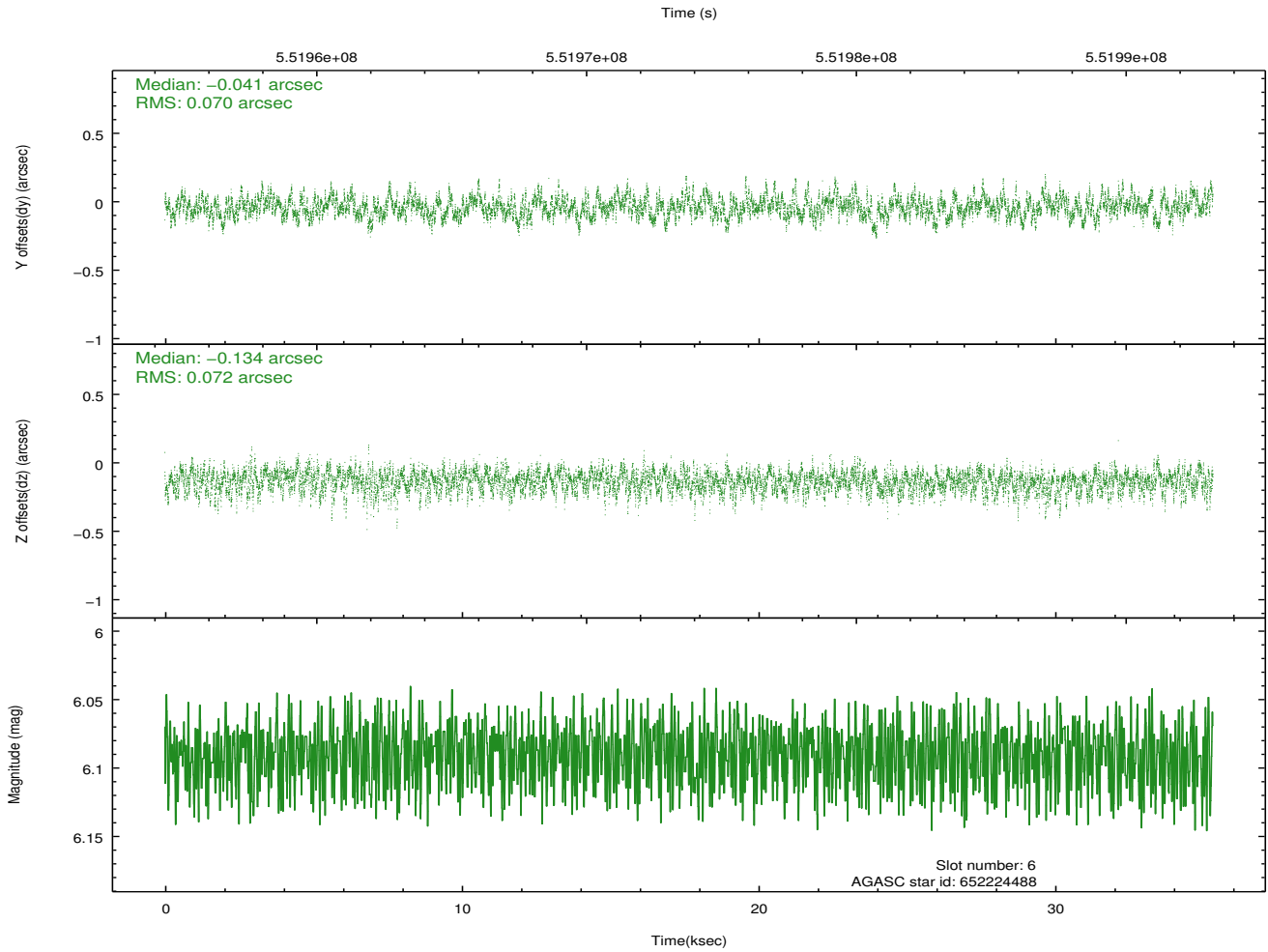
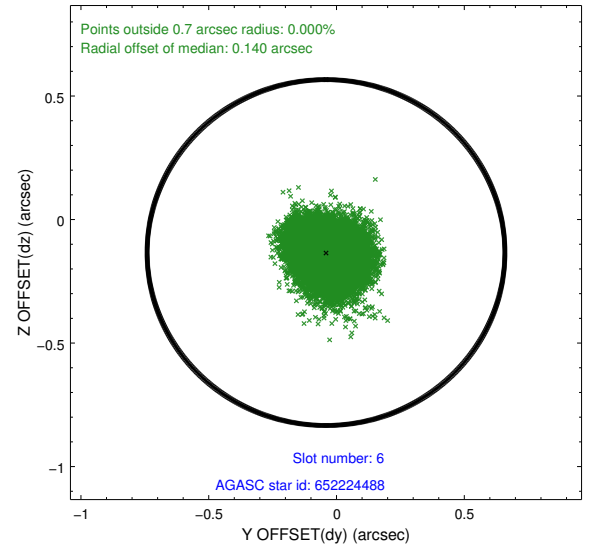
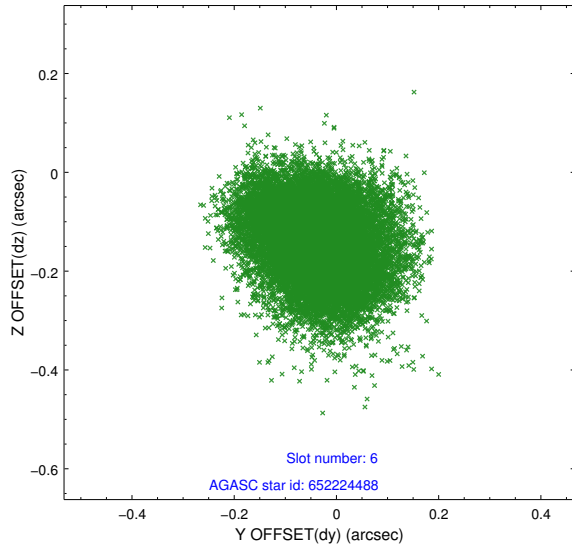
2.4.2 Slot 4



2.4.3 Slot 5

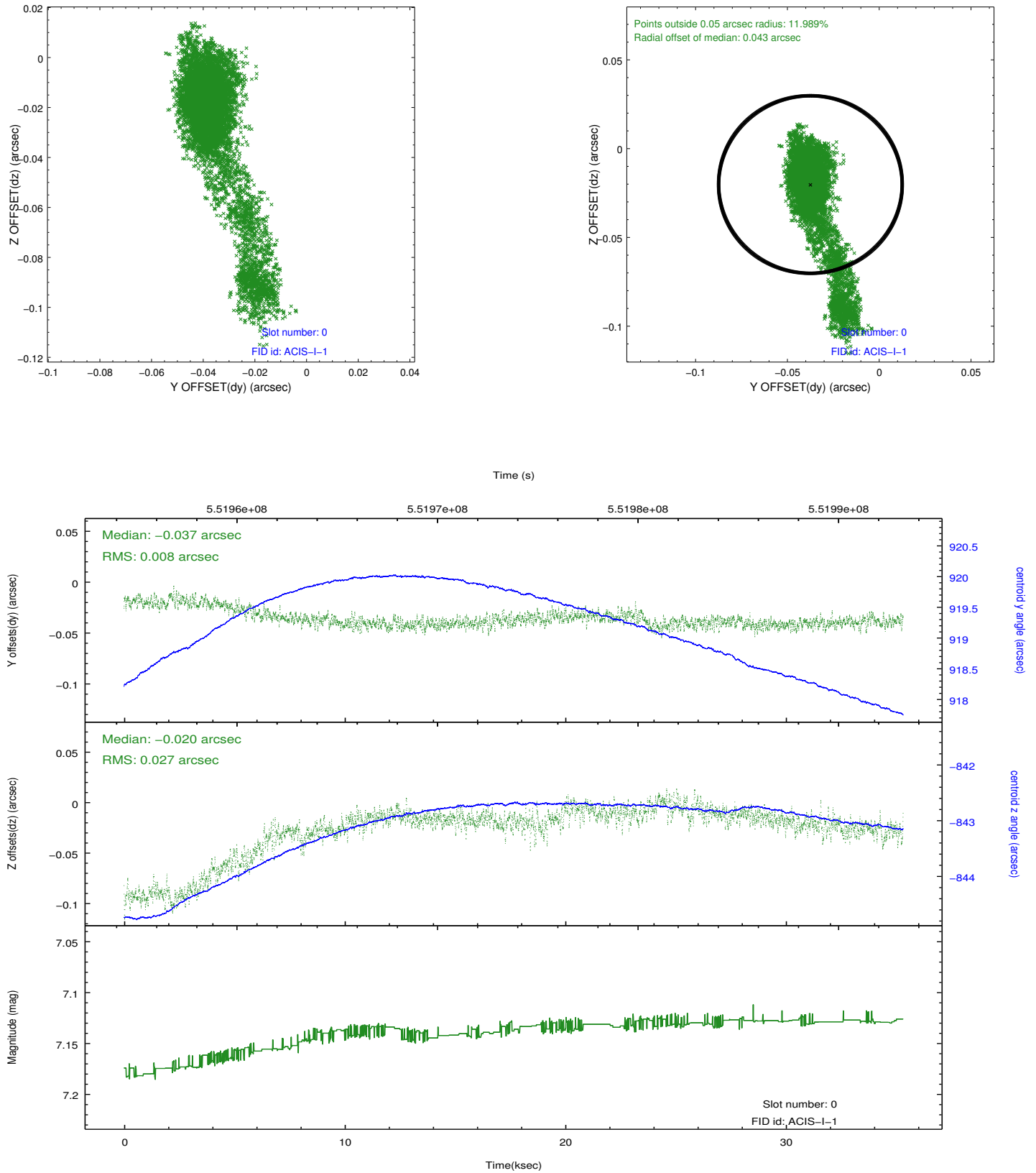


2.4.4 Slot 6

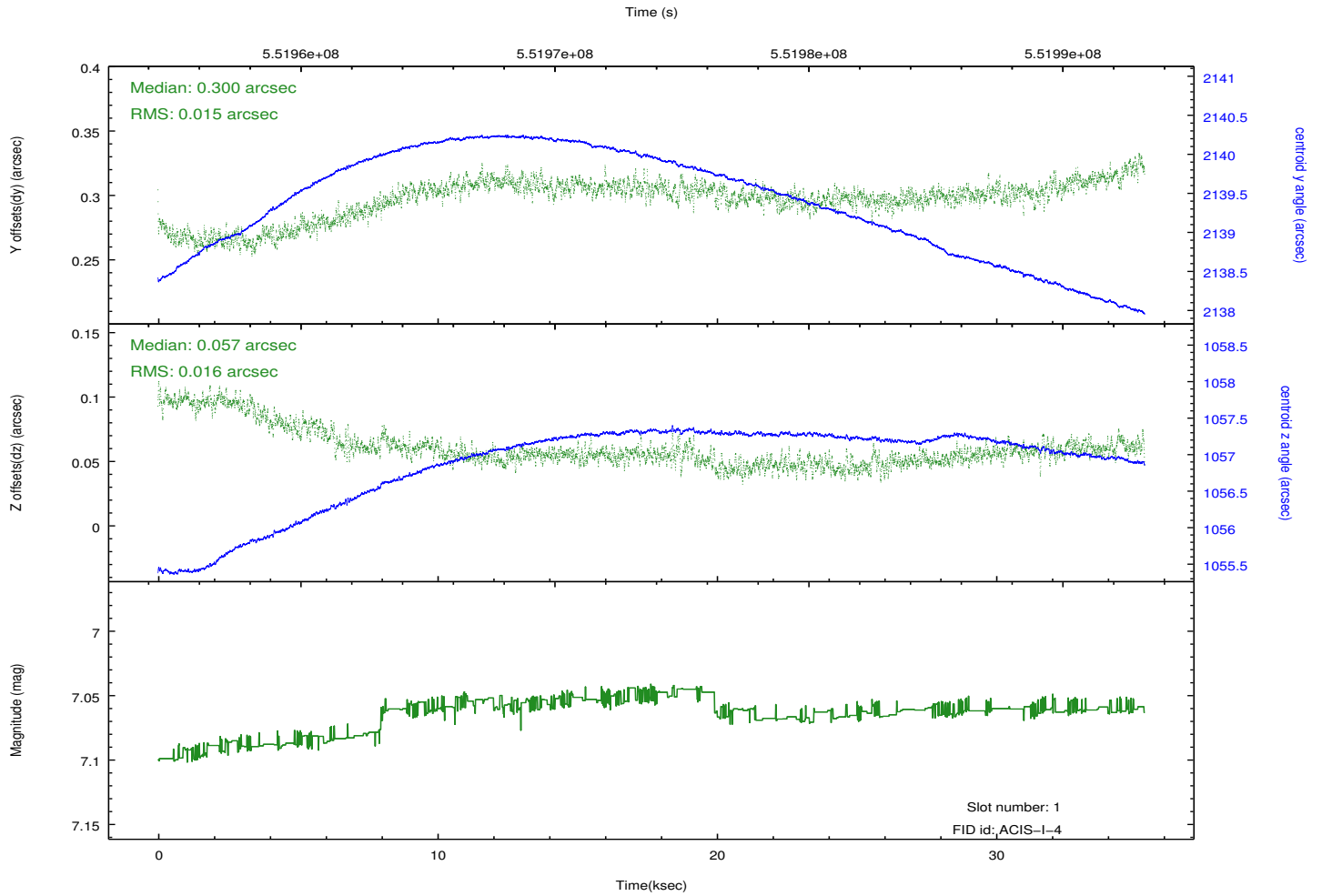
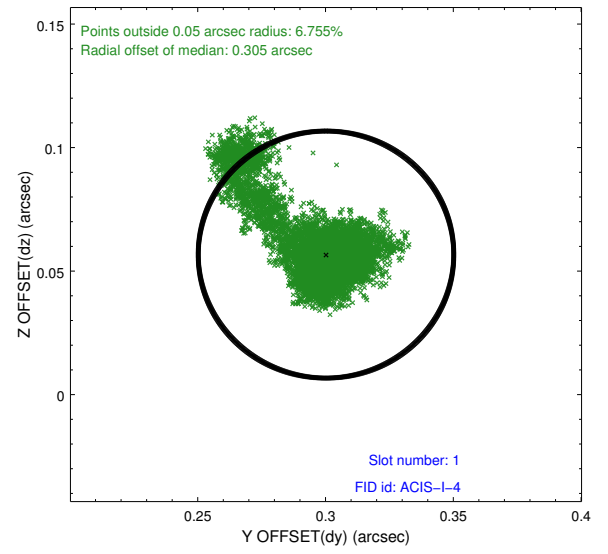
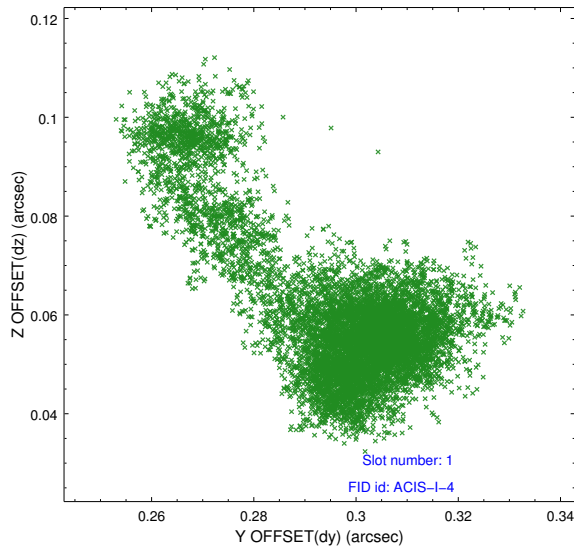


2.5 FID Slots

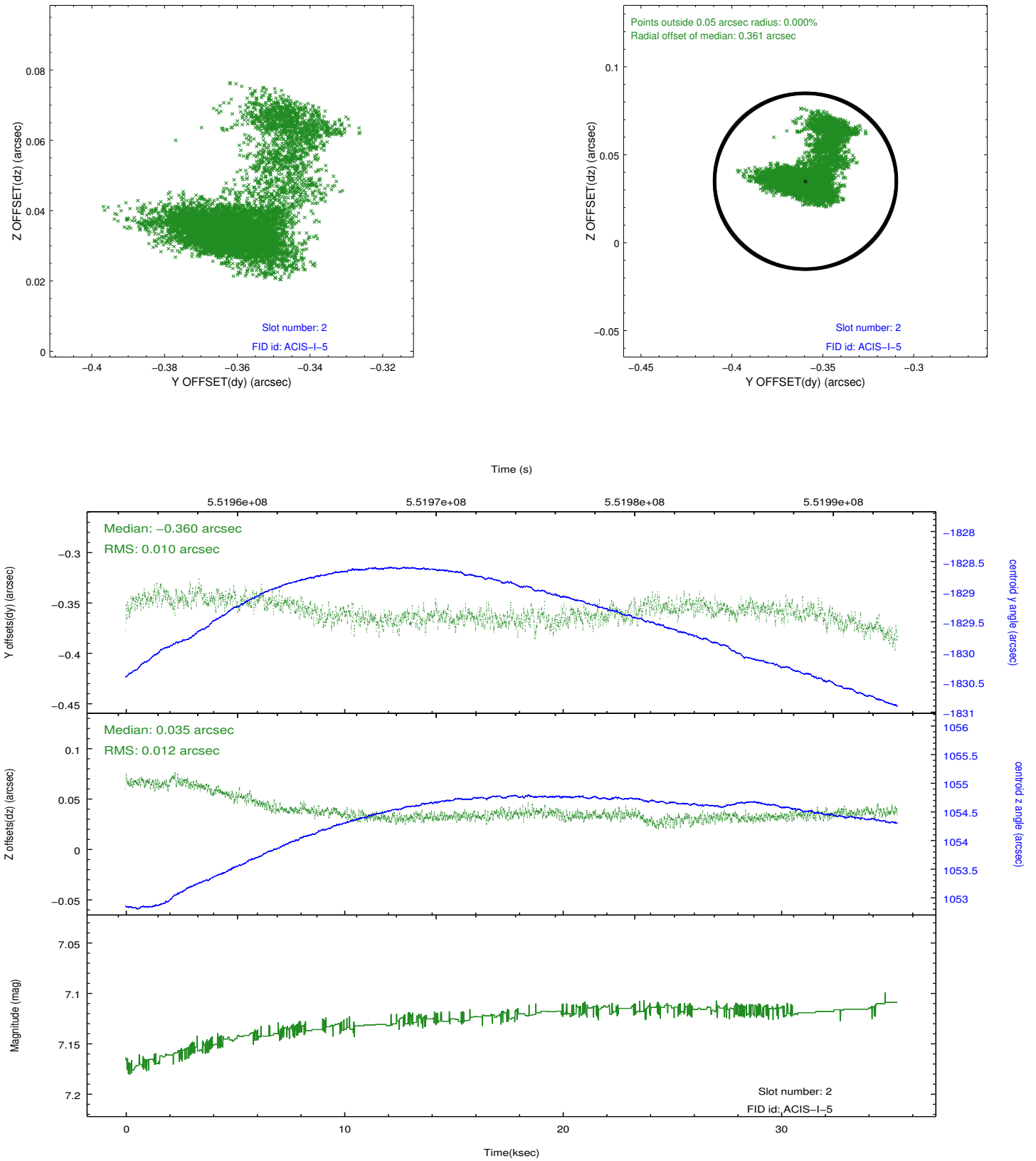
2.5.1 Slot 0



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)	2015.07.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.231500271082

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.