

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19429 - L2 Version 1
Chandra X-Ray Center

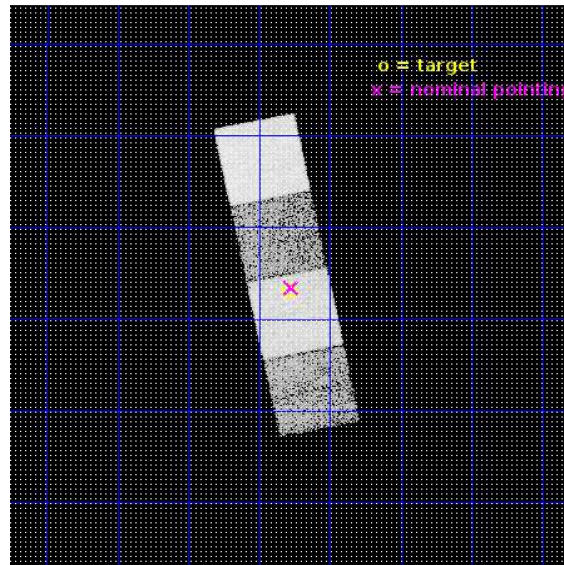
L2 Processing Date : Feb 10 2017

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

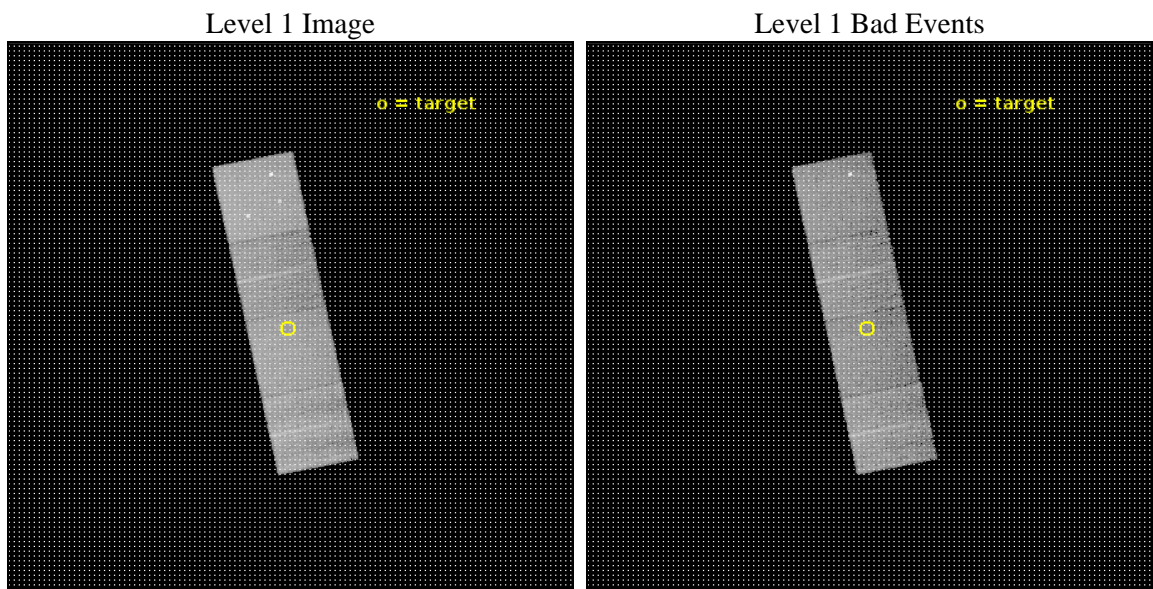
seq_num	601386	Sequence number
obs_id	19429	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4411b	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.696667	Observer's specified target RA [deg]
dec_targ	8.884611	Observer's specified target Dec [deg]
ra_nom	186.6928946785	Nominal RA [deg]
dec_nom	8.8902404657059	Nominal Dec [deg]
roll_nom	78.312661681985	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10064.281802773	Sum of GTIs [s]
livetime	9932.7845518038	Livetime [s]
ontime5	10064.24076283	Sum of GTIs [s]
ontime6	10064.199722767	Sum of GTIs [s]
ontime7	10064.281802773	Sum of GTIs [s]
ontime8	10061.017692566	Sum of GTIs [s]
l2events	107009	Number of level 2 events



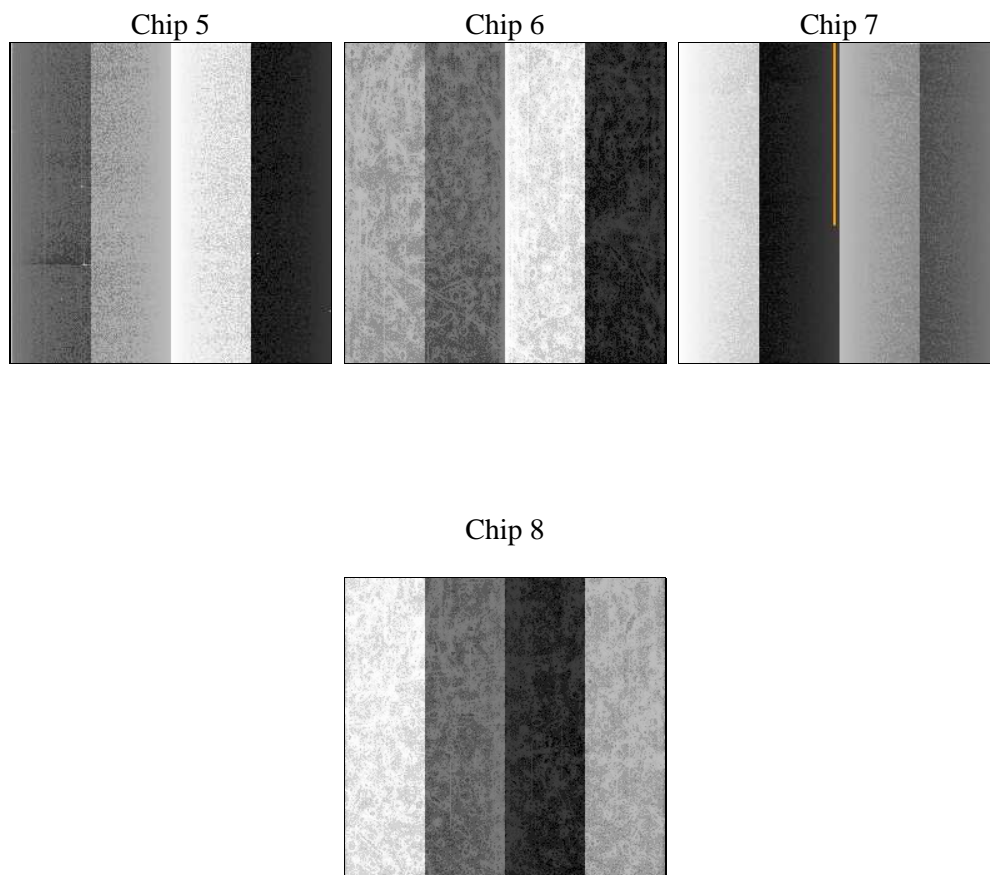
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	10064.281802773	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	10064.24076283	Sum of GTIs [s]
date	2017-02-10T14:41:40	Date and time of file creation	ontime6	10064.199722767	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10064.281802773	Sum of GTIs [s]
			ontime8	10061.017692566	Sum of GTIs [s]
			l1events	372738	Number of level 1 events

2.1.4 Events

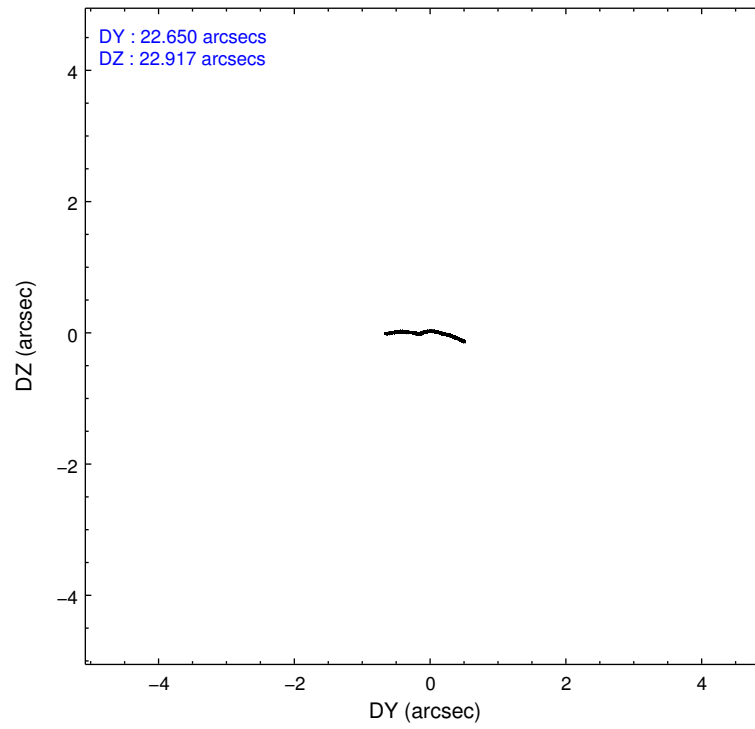
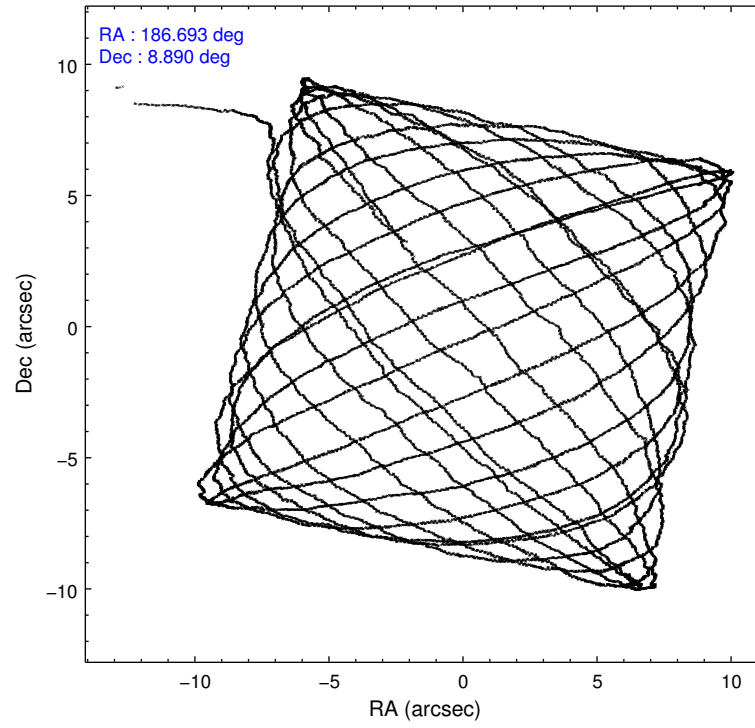
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	116681	69357	91576	95124
rejected events	60404	61012	51034	68677
rejected %	51%	87%	55%	72%

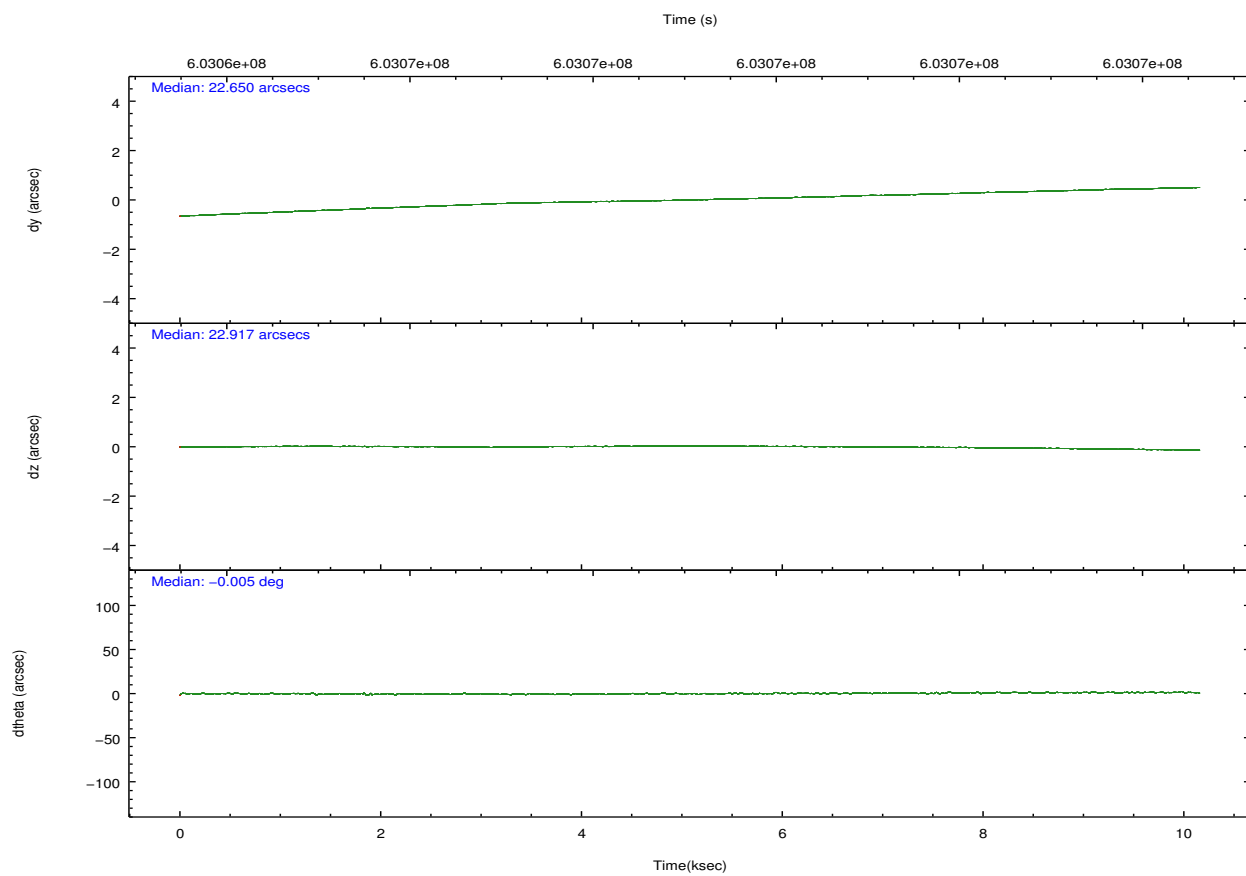
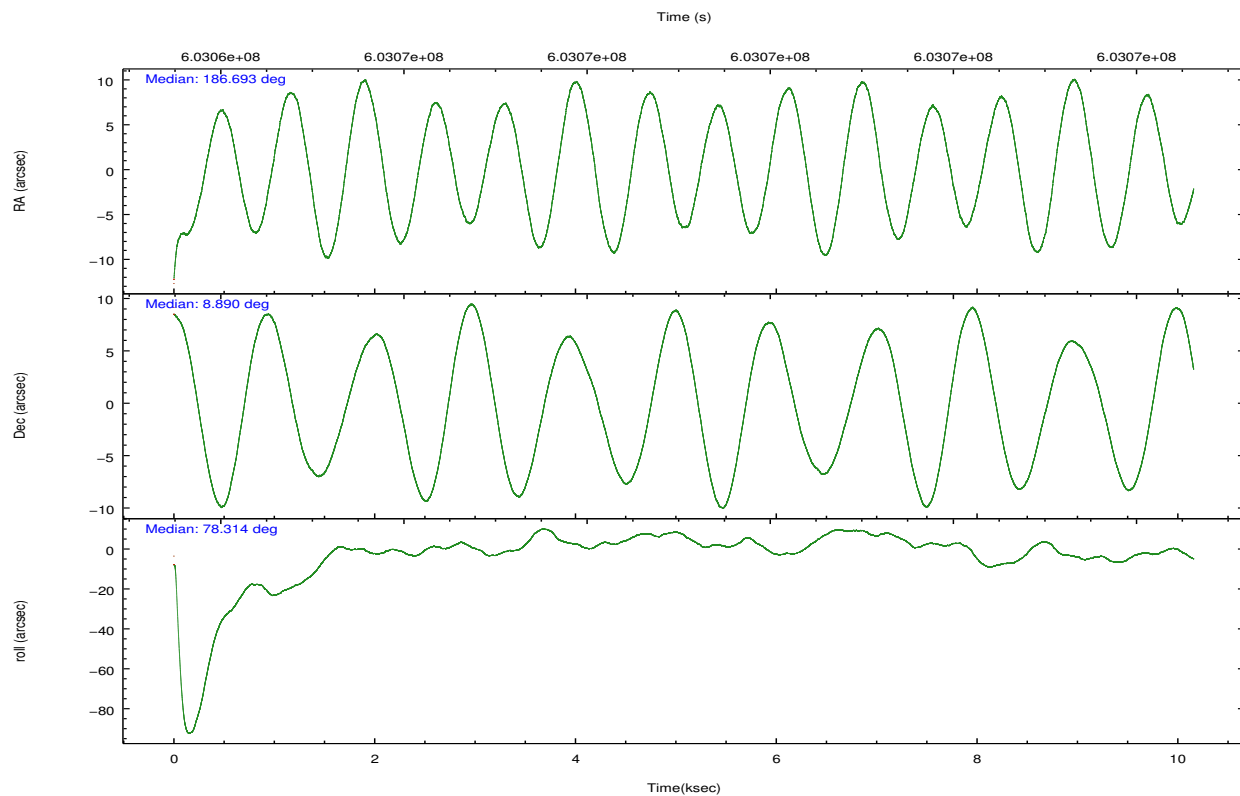
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5977	2889	3635	7658
	5%	4%	3%	8%
grade 1 events	227	37	100	73
	0%	0%	0%	0%
grade 2 events	17341	1872	8542	6451
	14%	2%	9%	6%
grade 3 events	1891	850	3386	2847
	1%	1%	3%	2%
grade 4 events	1718	846	3331	2583
	1%	1%	3%	2%
grade 5 events	8551	3445	9474	5065
	7%	4%	10%	5%
grade 6 events	29391	1896	21688	6923
	25%	2%	23%	7%
grade 7 events	51585	57522	41420	63524
	44%	82%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	186.702032	186.6928946784974	Subarray requested	NONE	NONE
[deg] Pointing Dec	8.864267	8.890240465705865	Alternating exposures requested	N	N
[deg] Pointing Roll	78.154500	78.31266168198503	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	603064148.184000	603063085.25047			
Observation start date	2017-02-09T21:47:59	2017-02-09T21:31:25			
[s] Observation end time (MET)	603074148.184000	603075123.87616			
Observation end date	2017-02-10T00:34:39	2017-02-10T00:52:03			
Read mode	TIMED	TIMED			

2.3 Aspect



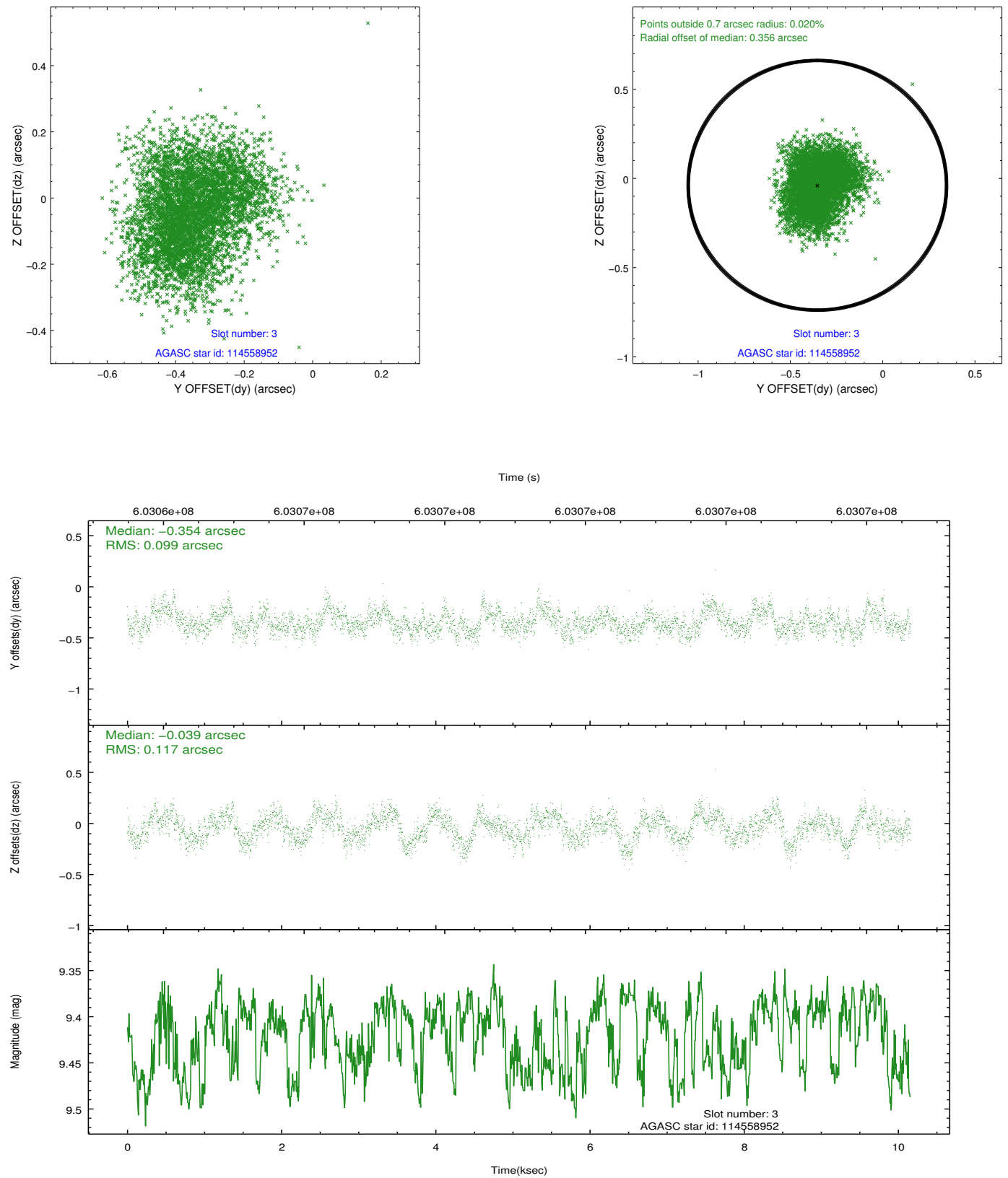


Slot Statistics

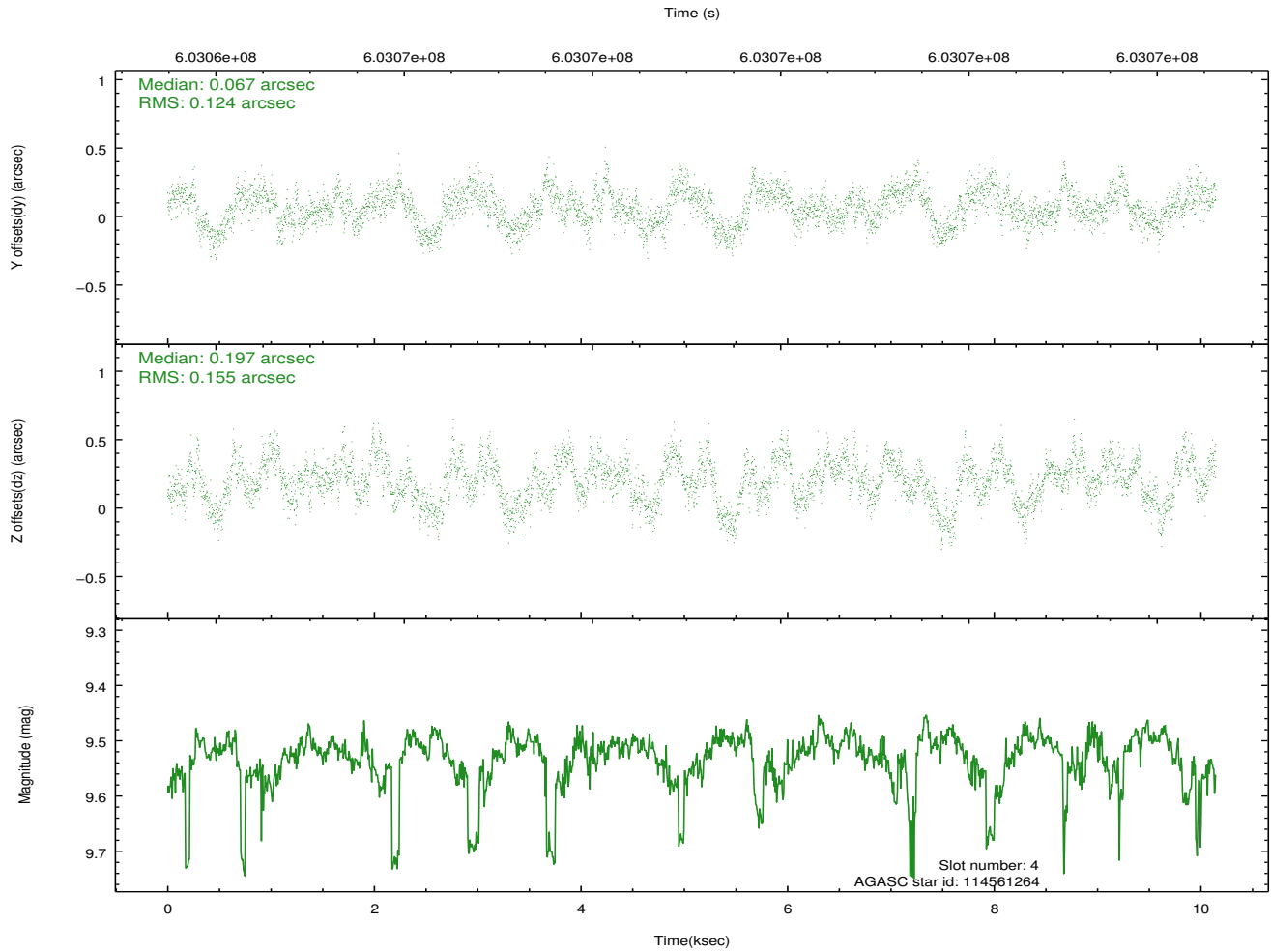
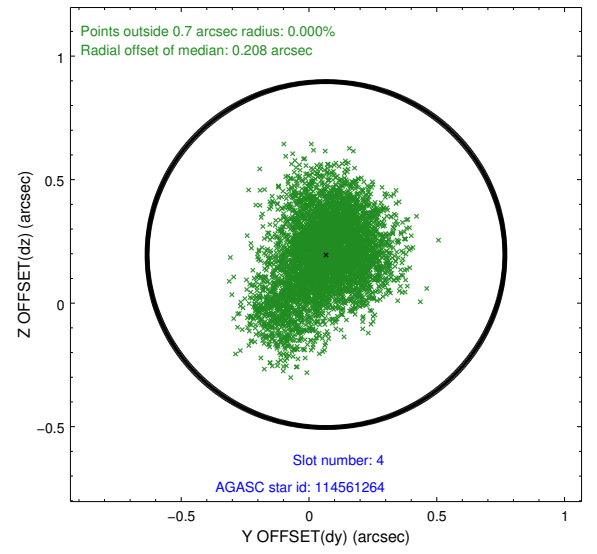
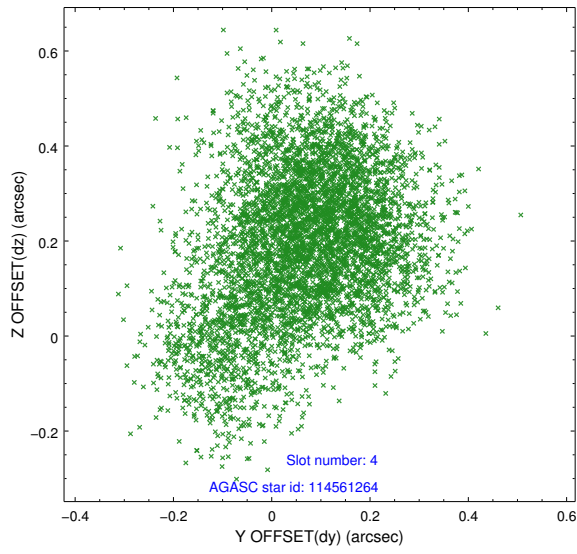
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	2478	-0.217	-0.155	0.009	0.014	0.000000	0.000000	-776.02	-1744.65
1	FID		ACIS-S-4	7.06	2478	0.527	0.145	0.020	0.031	0.000000	0.000000	2137.74	163.61
2	FID		ACIS-S-5	7.07	2478	-0.341	0.018	0.014	0.024	0.000000	0.000000	-1828.33	157.71
3	GUIDE	used	114558952	9.42	4942	-0.354	-0.039	0.168	0.259	186.929093	9.345397	1860.89	-433.84
4	GUIDE	used	114561264	9.53	4943	0.067	0.197	0.209	0.348	186.762657	8.969089	414.28	-133.37
5	GUIDE	used	114562600	8.69	4953	-0.051	-0.014	0.226	0.329	186.973653	8.898661	320.37	-919.61
6	GUIDE	used	114565400	6.31	4954	0.205	-0.055	0.117	0.187	186.925333	8.610343	-730.92	-966.08
7	GUIDE	used	114558824	9.71	4948	0.147	-0.083	0.238	0.369	187.023305	9.331255	1880.02	-772.62

2.4 Star Slots

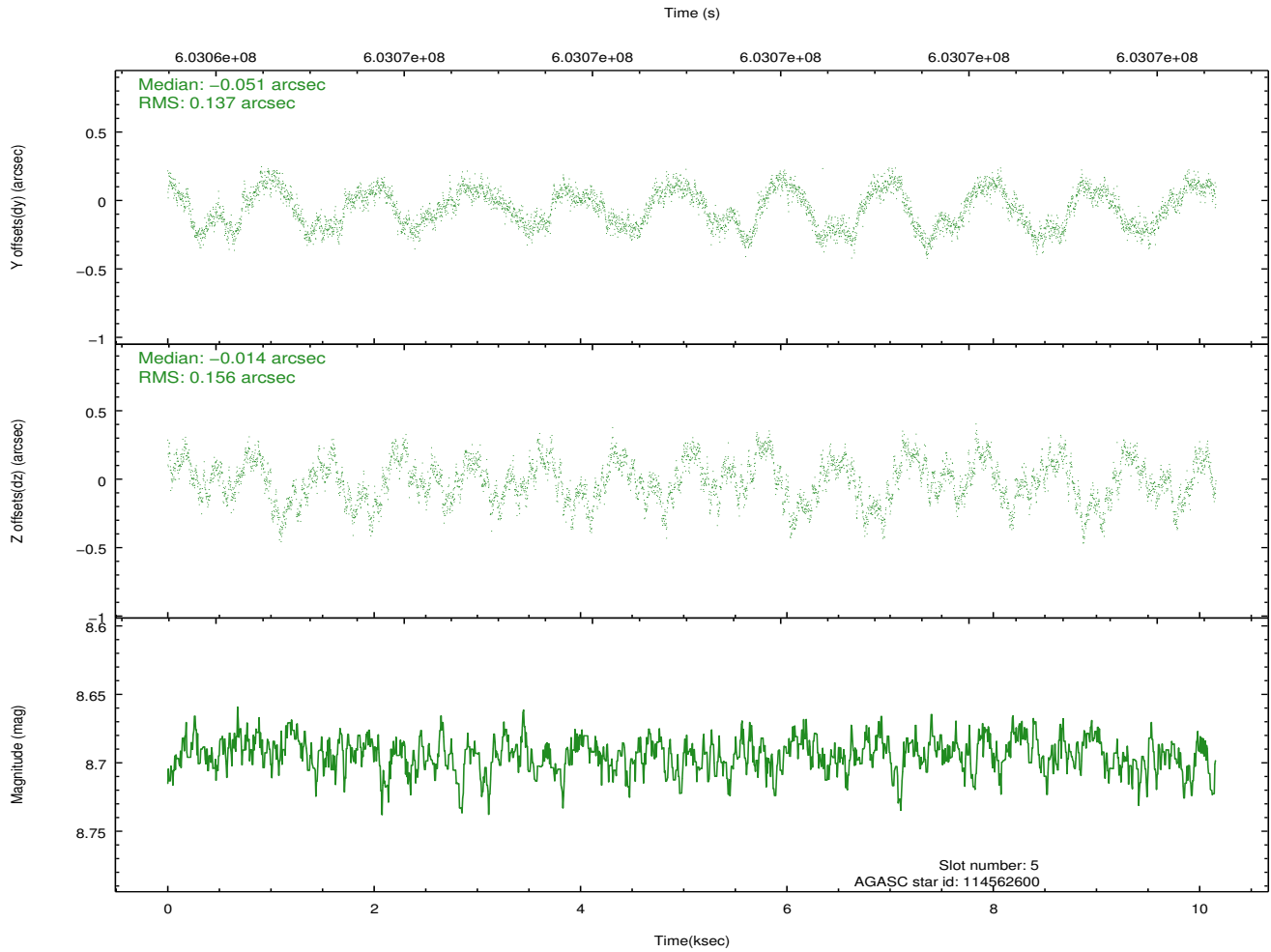
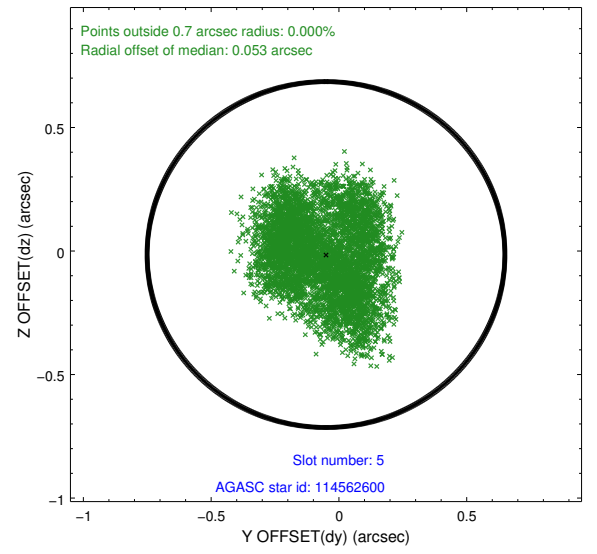
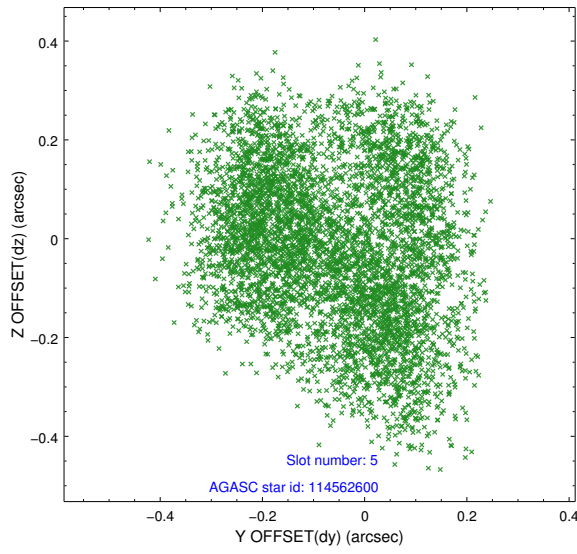
2.4.1 Slot 3



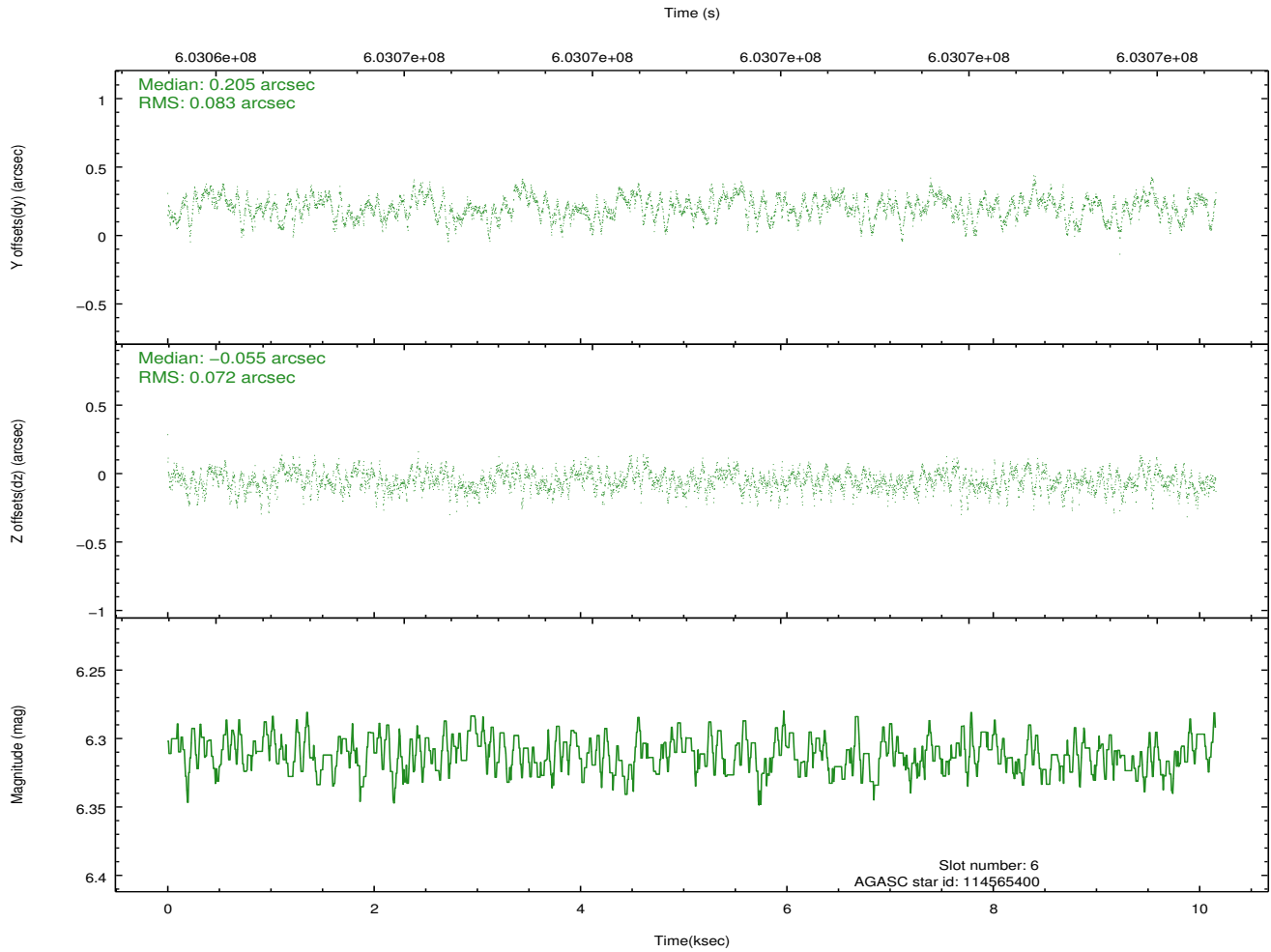
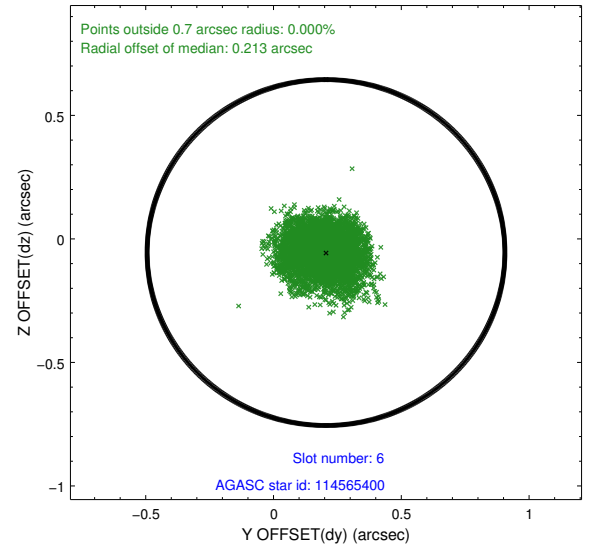
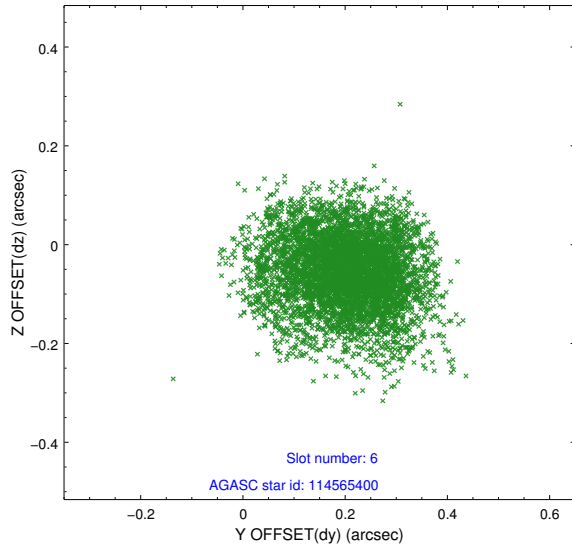
2.4.2 Slot 4



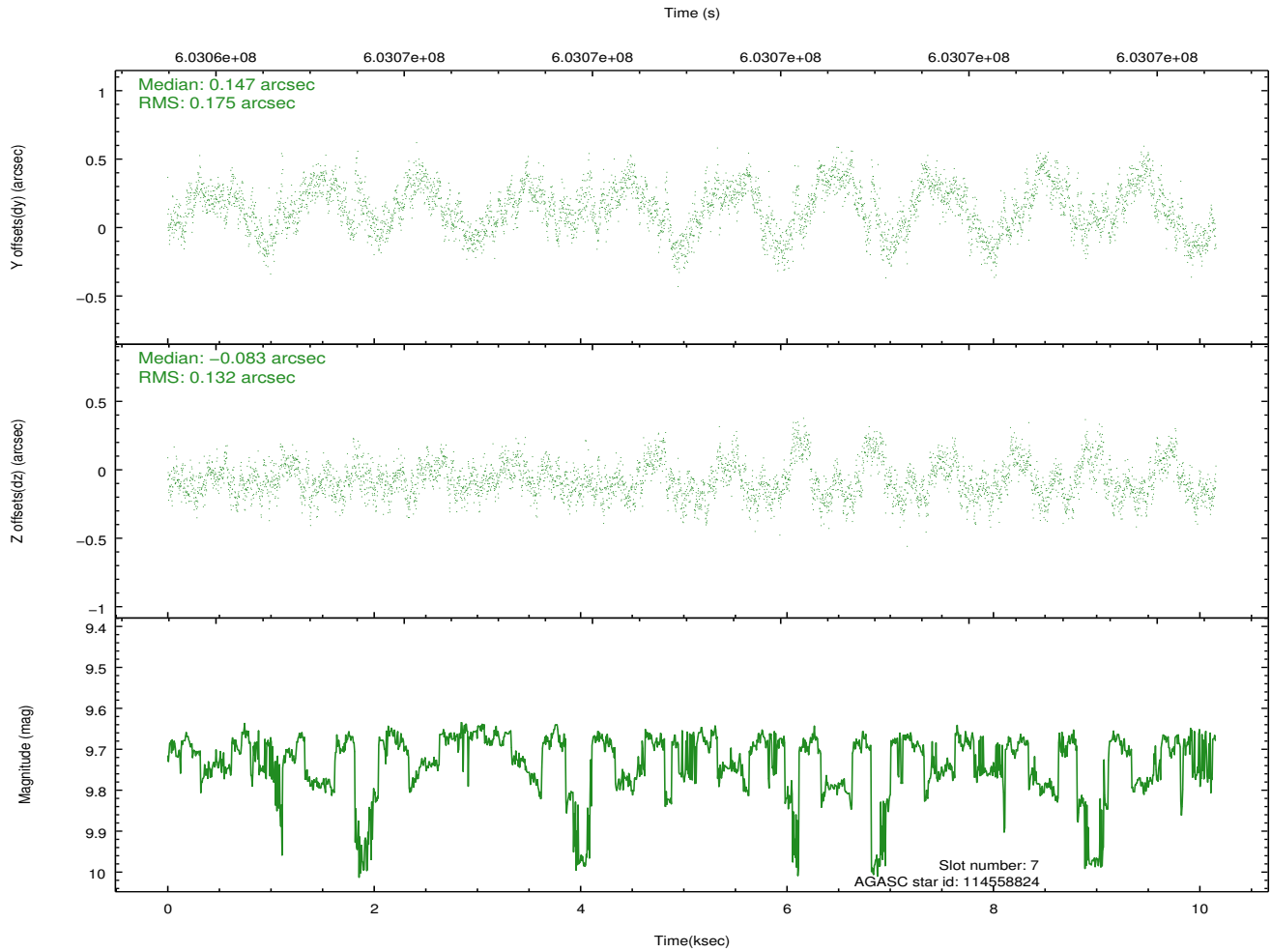
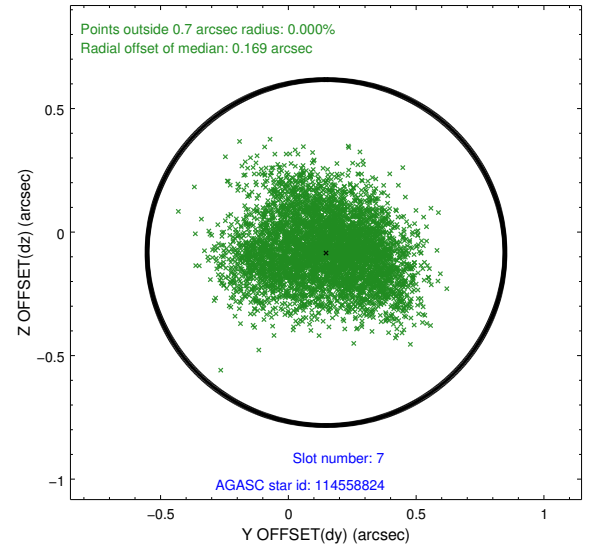
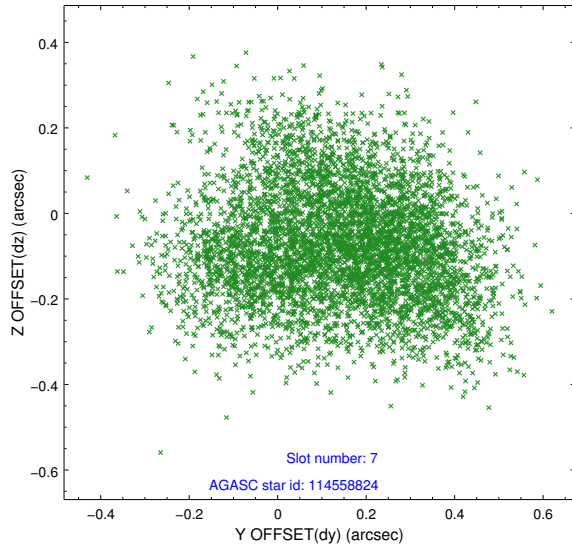
2.4.3 Slot 5



2.4.4 Slot 6

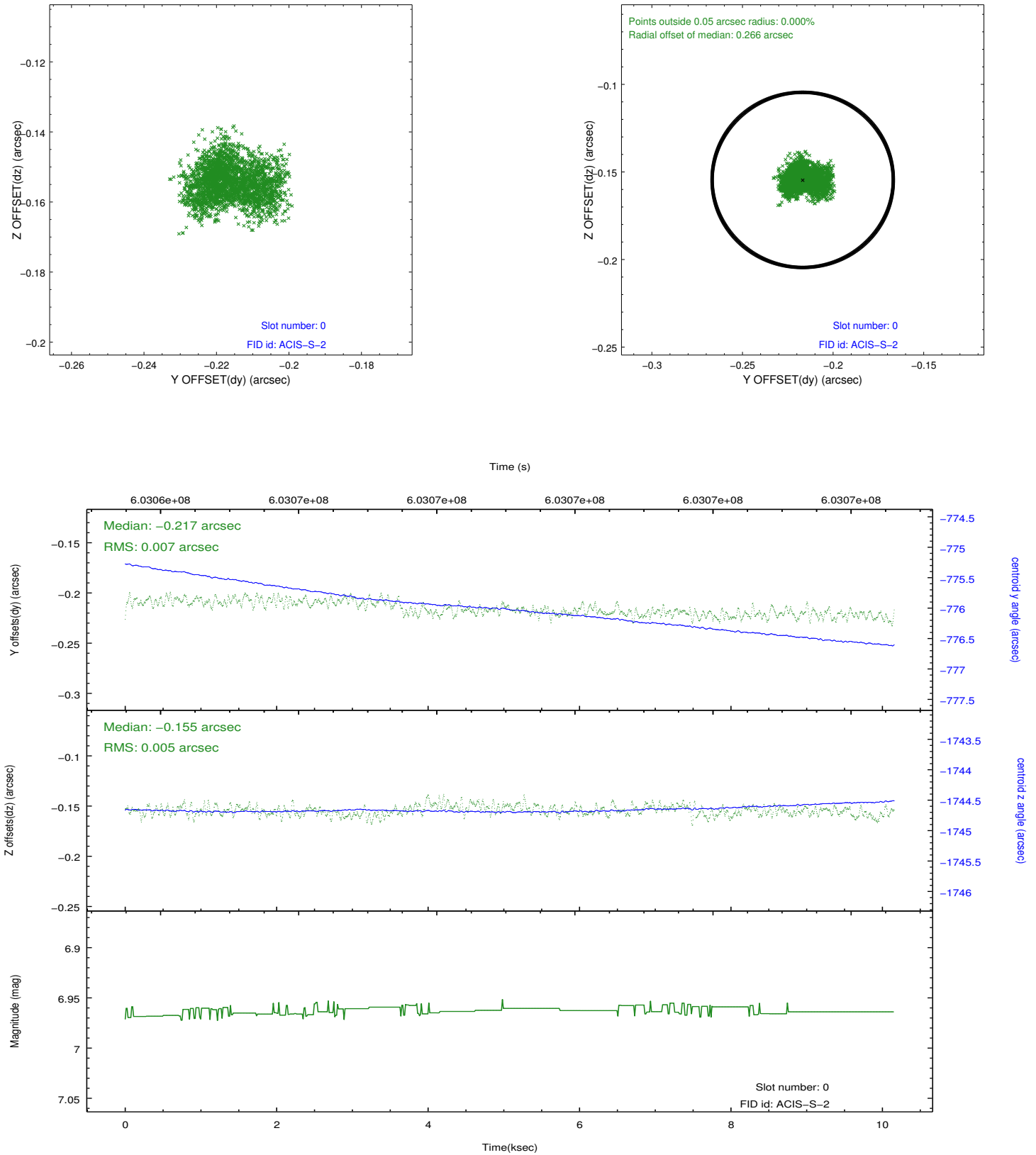


2.4.5 Slot 7

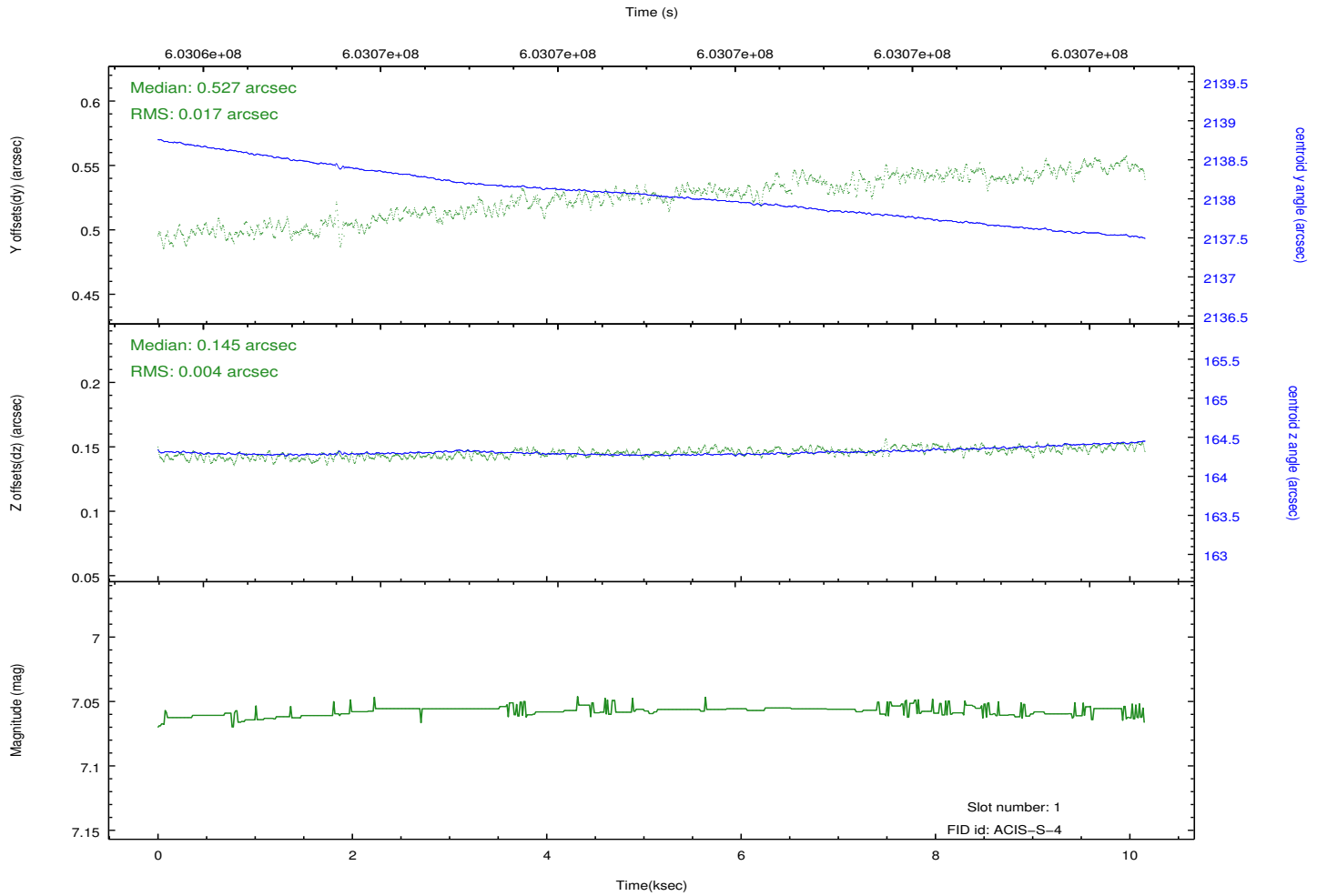
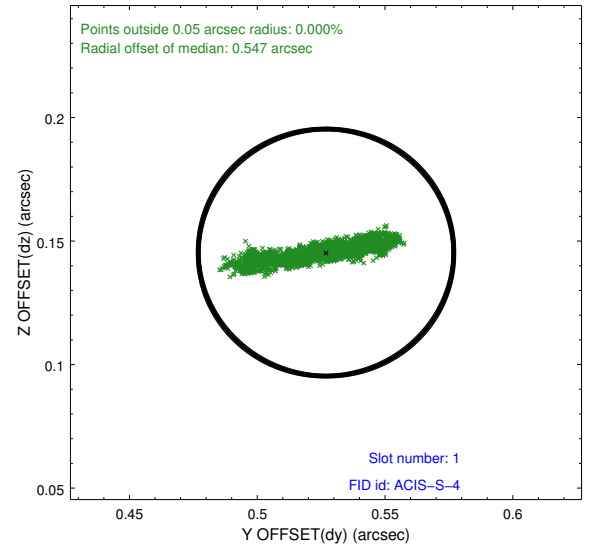
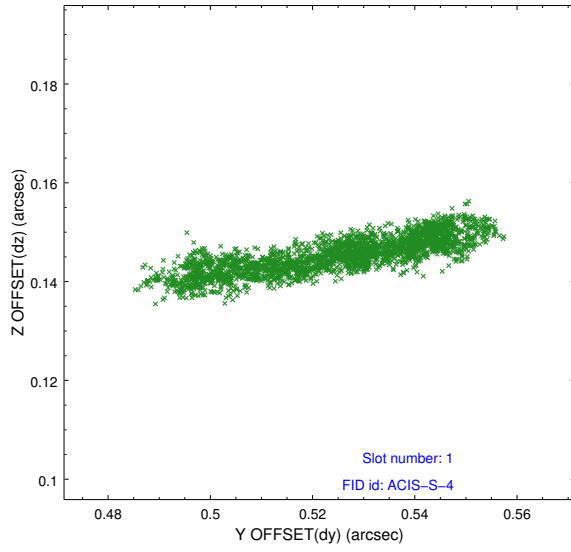


2.5 FID Slots

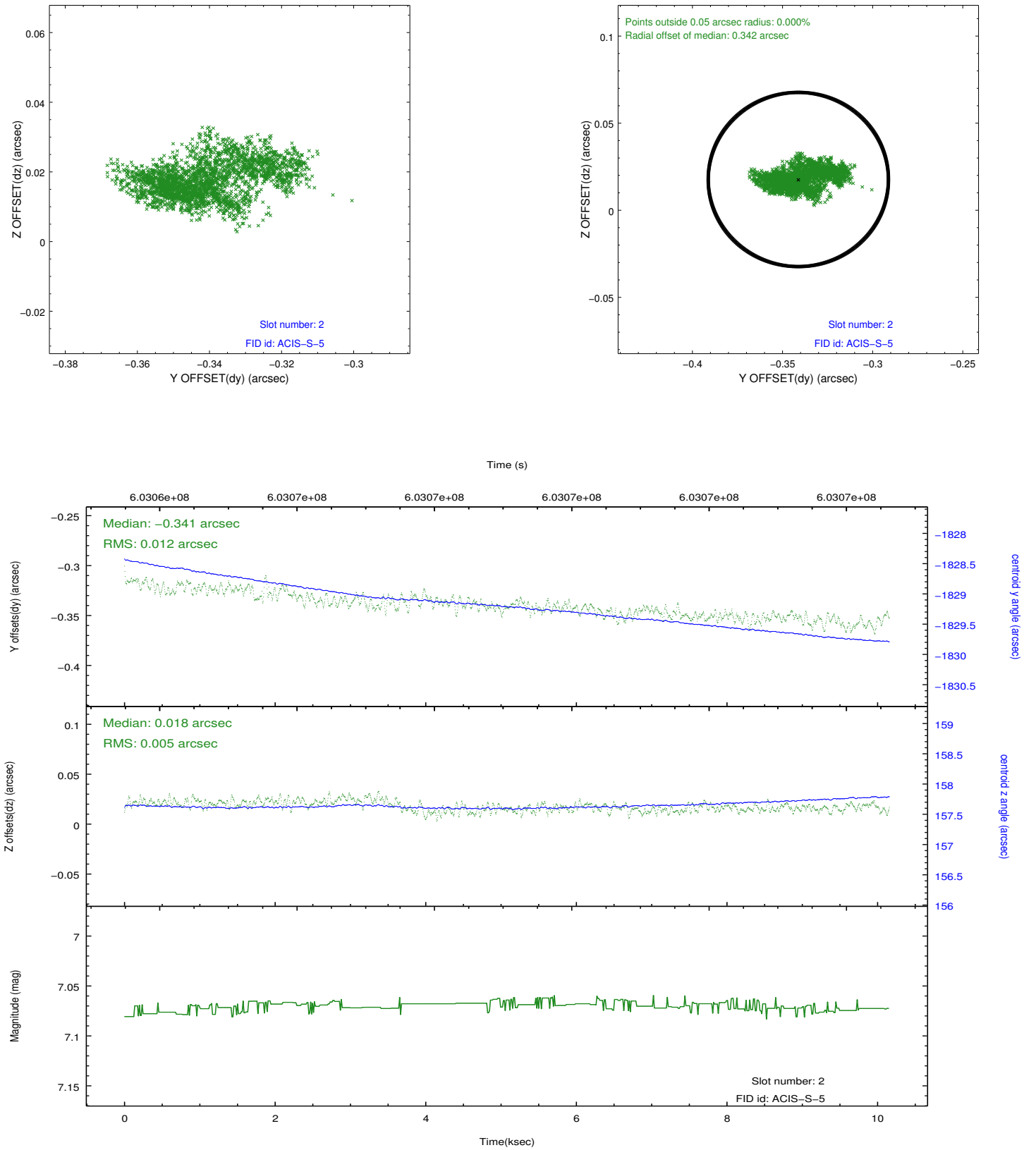
2.5.1 Slot 0



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)	2017.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.064281802773

A.2 Comments