

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17047 - L2 Version 2
Chandra X-Ray Center

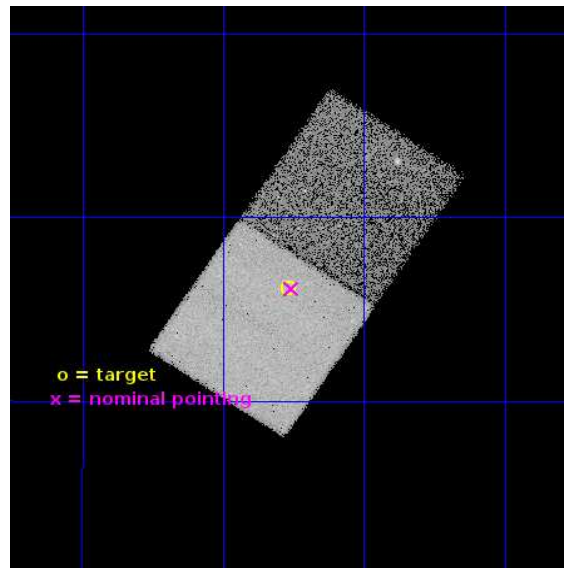
L2 Processing Date : Apr 4 2016

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 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

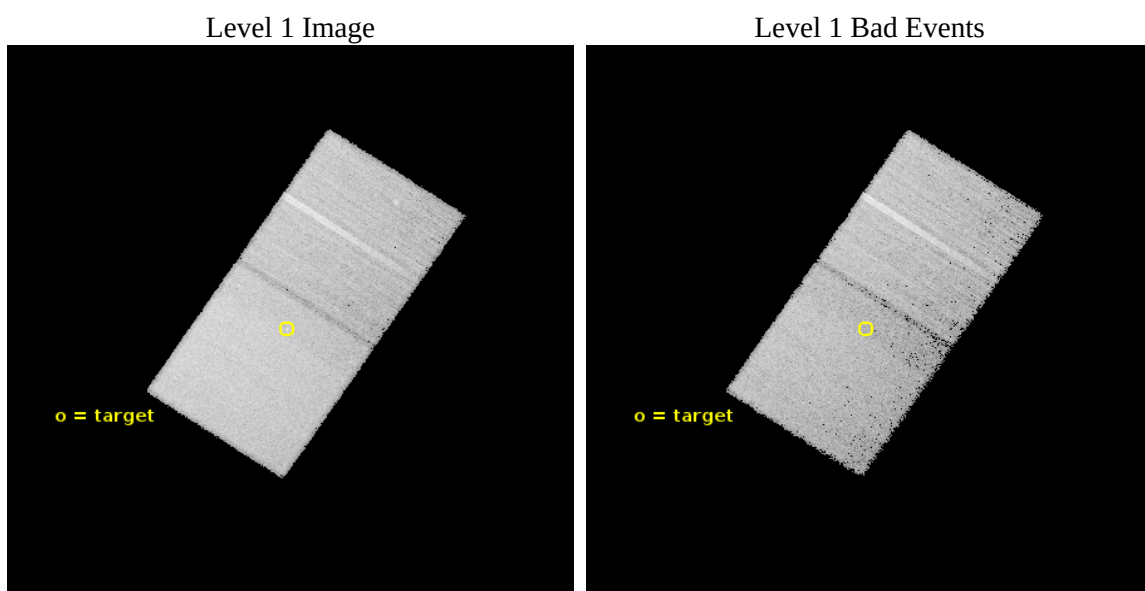
seq_num	703051	Sequence number
obs_id	17047	Observation id
title	Extended X-ray Emission From a Quasar-driven Superbubble	Proposal
observer	Dr. Jenny Greene	Principal investigator
object	SDSS J135646.10+102609.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	209.192083	Observer's specified target RA [deg]
dec_targ	10.435833	Observer's specified target Dec [deg]
ra_nom	209.1894262162	Nominal RA [deg]
dec_nom	10.435097542898	Nominal Dec [deg]
roll_nom	123.62760378384	Nominal Roll [deg]
revision	2	Processing version of data
ontime	35313.0	Sum of GTIs [s]
livetime	34836.437534528	Livetime [s]
ontime6	35313.0	Sum of GTIs [s]
ontime7	35313.0	Sum of GTIs [s]
l2events	140119	Number of level 2 events



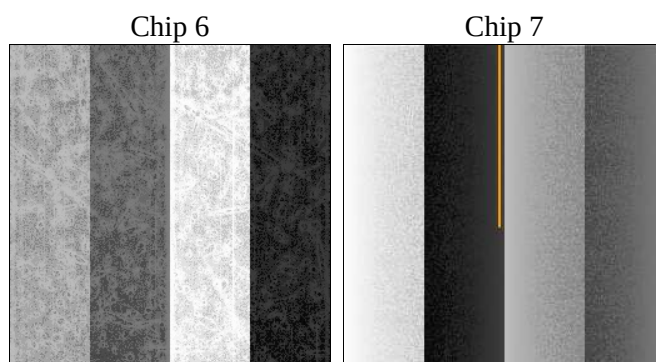
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	78306.244000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	35313.0	Sum of GTIs [s]
caldsver	4.7.1	 	ontime6	35313.0	Sum of GTIs [s]
date	2016-04-04T21:47:25	Date and time of file creation	ontime7	35313.0	Sum of GTIs [s]
revision	2	Processing version of data	l1events	503067	Number of level 1 events

2.1.4 Events

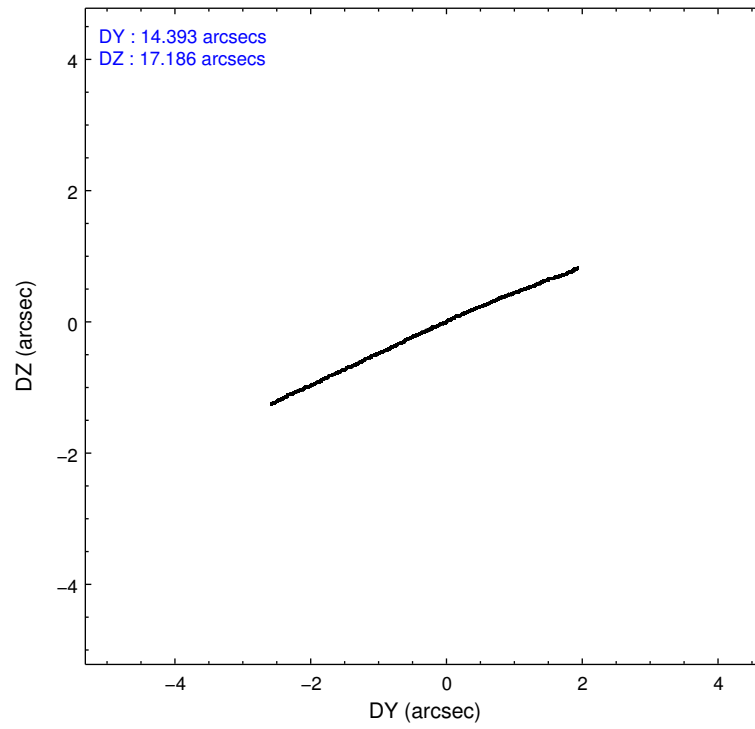
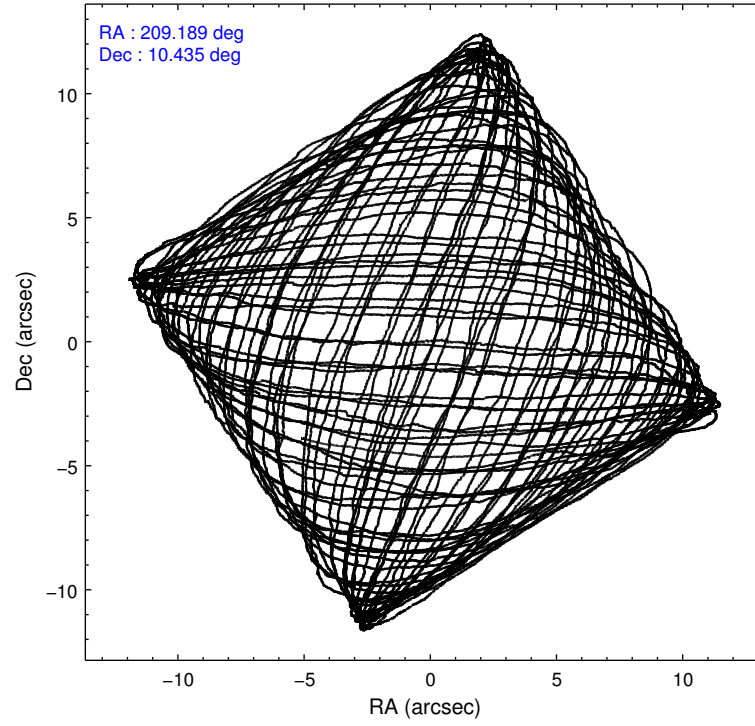
	ccd 6	ccd 7
level 1 events	221673	281394
rejected events	196384	160483
rejected %	88%	57%

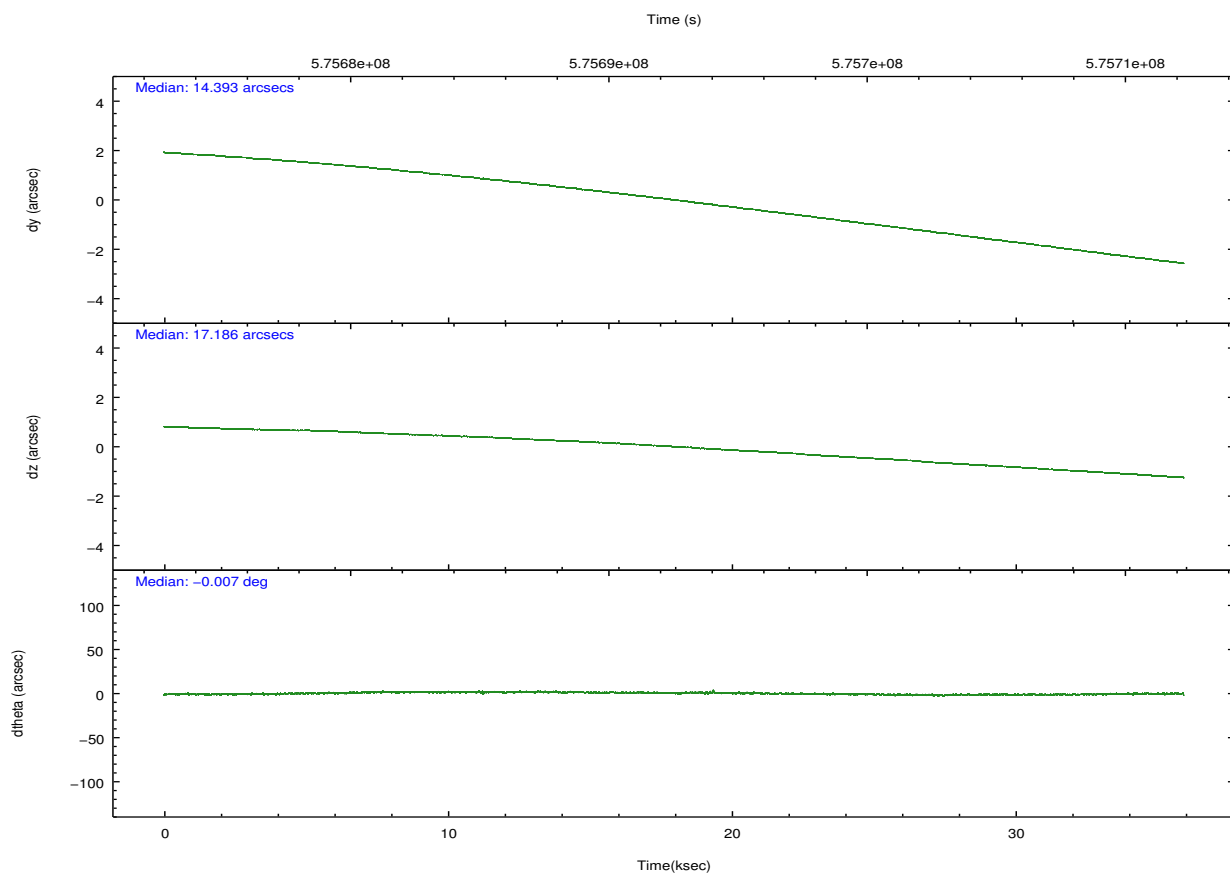
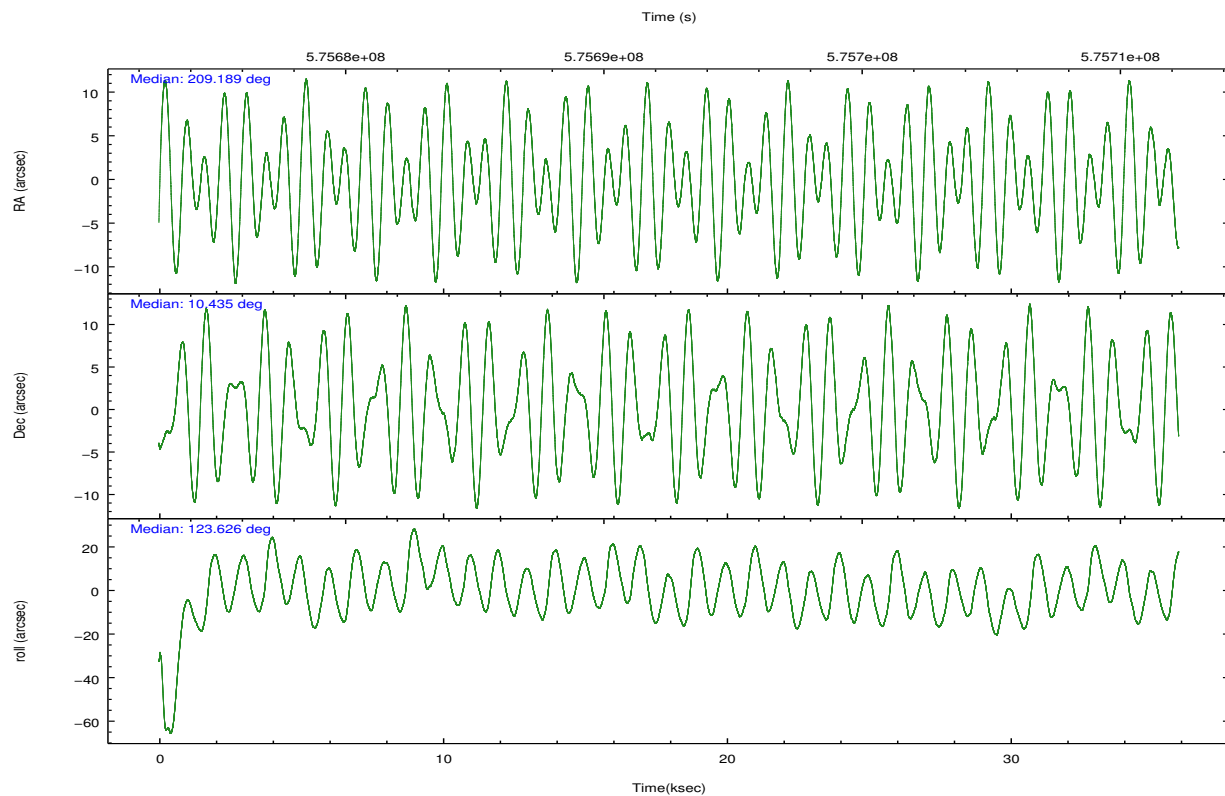
	ccd 6	ccd 7
grade 0 events	8445	9904
	3%	3%
grade 1 events	78	309
	0%	0%
grade 2 events	5878	25170
	2%	8%
grade 3 events	2380	9403
	1%	3%
grade 4 events	2354	9004
	1%	3%
grade 5 events	10014	26683
	4%	9%
grade 6 events	6234	67446
	2%	23%
grade 7 events	186290	133475
	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	209.214583	209.1894262161963	CCD I2 on	N	N
[deg] Pointing Dec	10.423226	10.43509754289768	CCD I3 on	N	N
[deg] Pointing Roll	123.466433	123.6276037838407	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	N
[s] Observation start time (MET)	575675046.184000	575674128.88752	CCD S5 on	N	N
Observation start date	2016-03-29T21:42:58	2016-03-29T21:28:48	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	575753353.184000	575711413.26464	On-chip summing requested	N	N
Observation end date	2016-03-30T19:28:05	2016-03-30T07:50:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3

2.3 Aspect



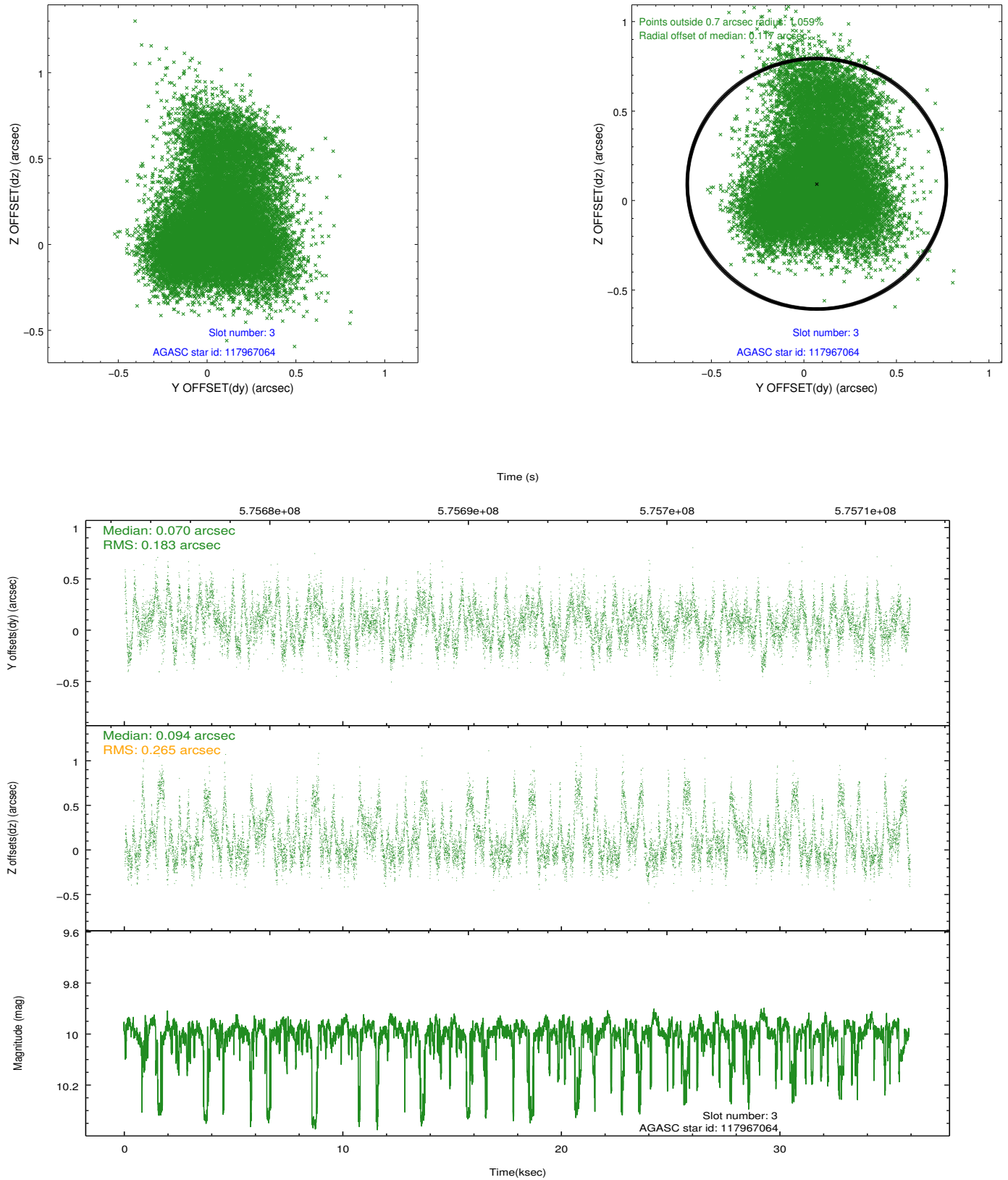


Slot Statistics

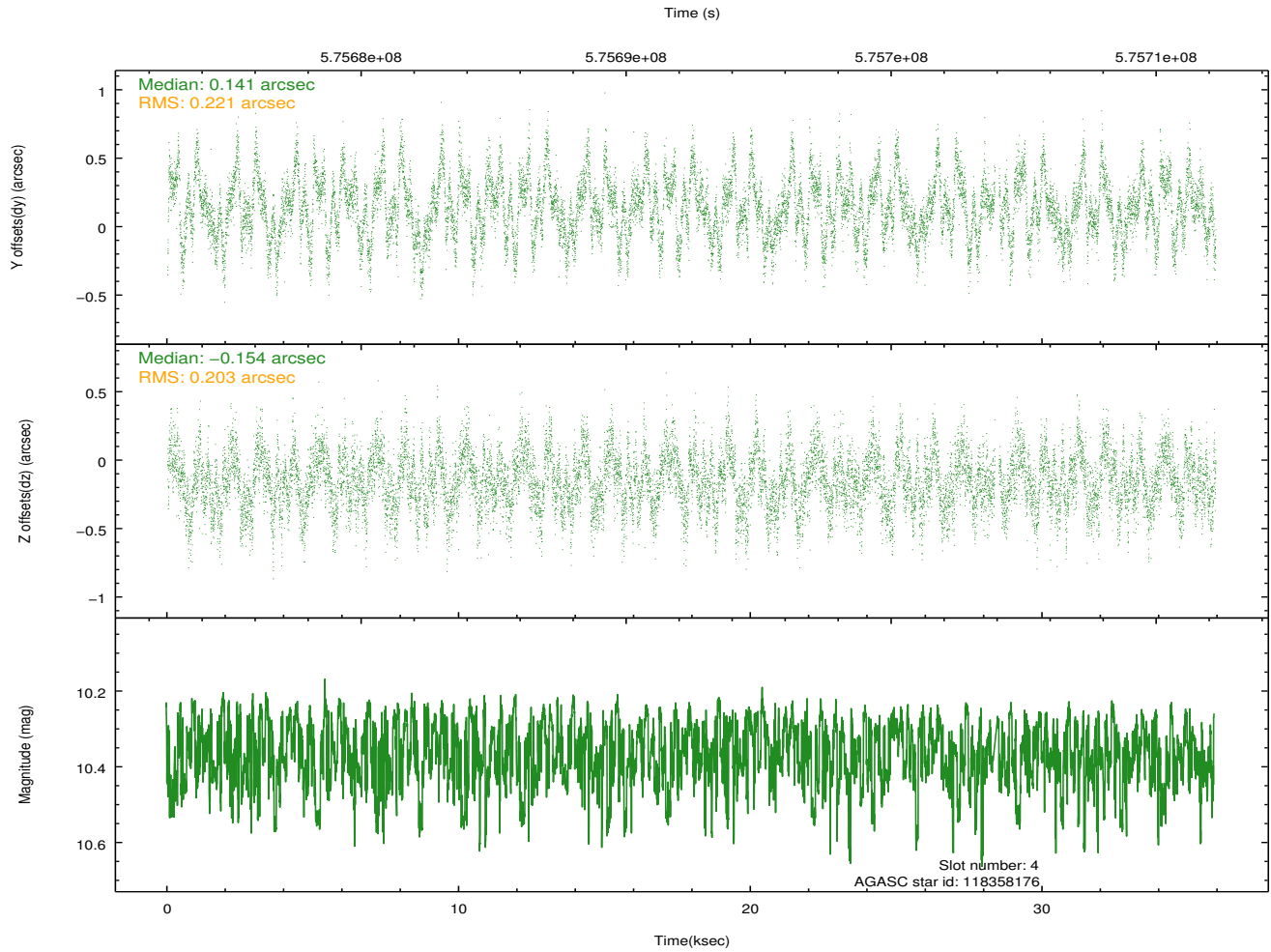
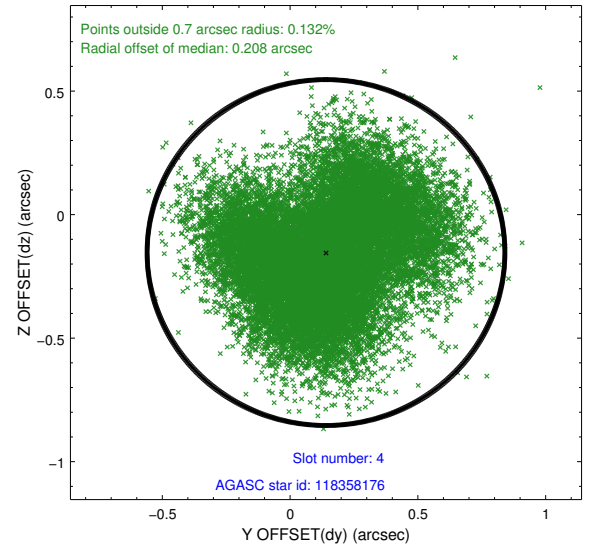
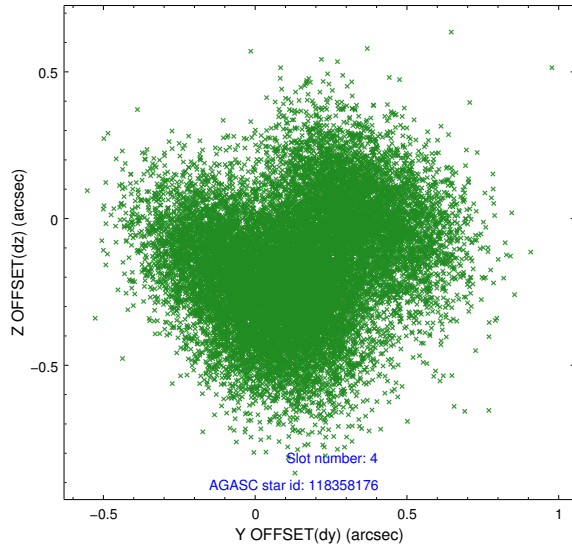
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.22	8764	0.149	-0.090	0.034	0.045	0.000000	0.000000	928.99	-1734.19
1	FID		ACIS-S-5	7.24	8764	-0.285	0.080	0.025	0.053	0.000000	0.000000	-1820.46	163.43
2	FID		ACIS-S-6	7.36	8764	0.115	0.019	0.030	0.055	0.000000	0.000000	394.41	807.43
3	GUIDE	used	117967064	10.00	17463	0.070	0.094	0.334	0.575	209.118667	9.673157	-2065.72	1772.50
4	GUIDE	used	118358176	10.37	17370	0.141	-0.154	0.330	0.494	208.839047	10.078695	-300.10	1794.12
5	GUIDE	used	118367064	8.97	17522	-0.366	-0.193	0.157	0.230	208.544371	10.247980	780.25	2326.39
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	118359856	9.13	17512	0.182	0.213	0.207	0.336	209.300550	10.306926	-516.80	-22.87

2.4 Star Slots

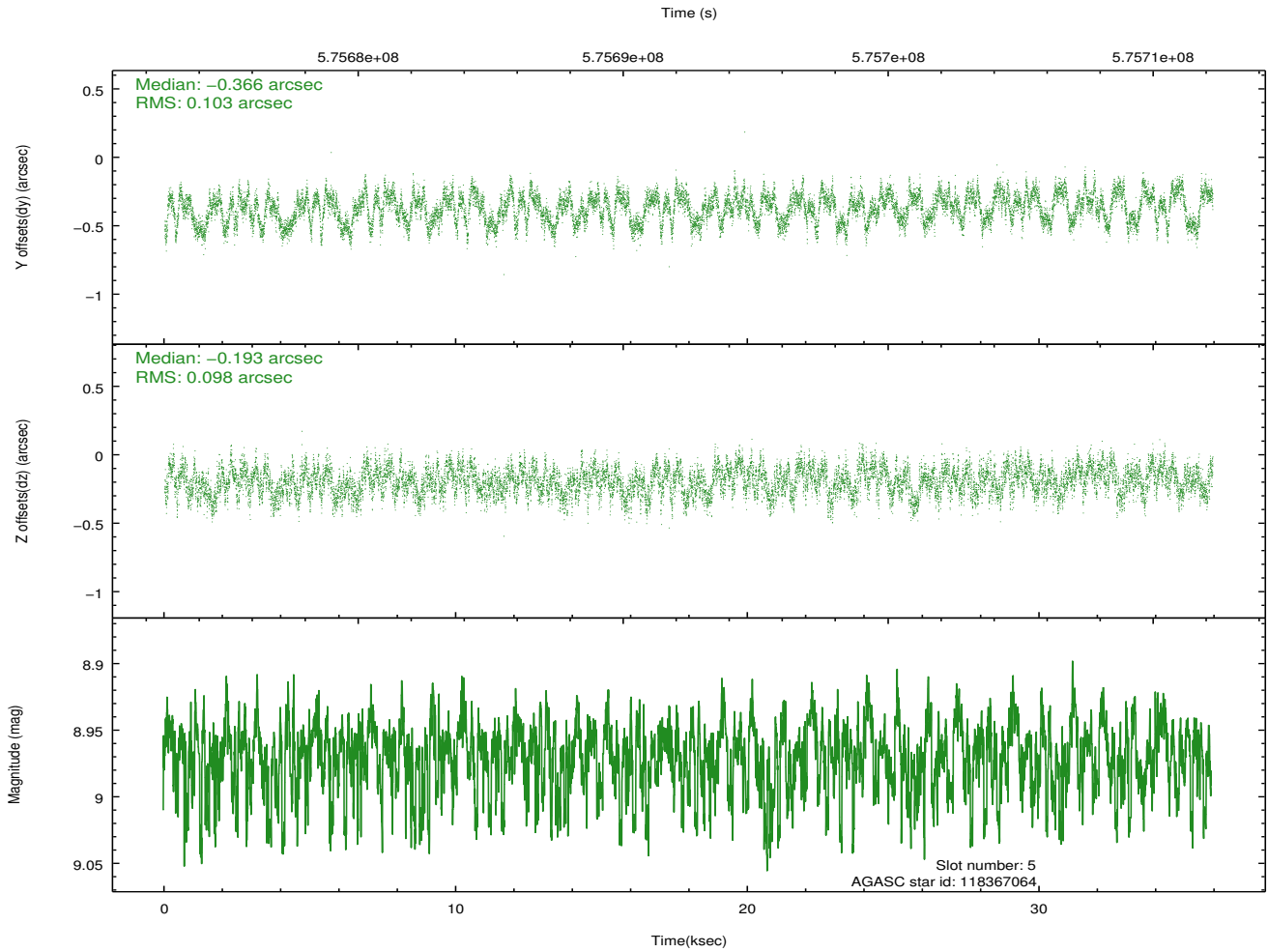
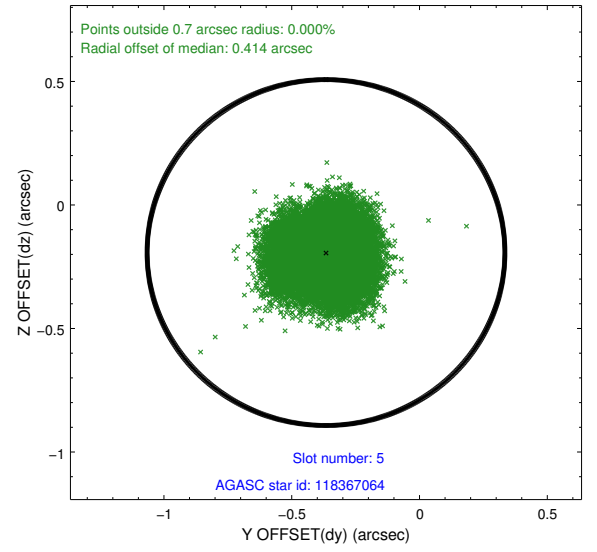
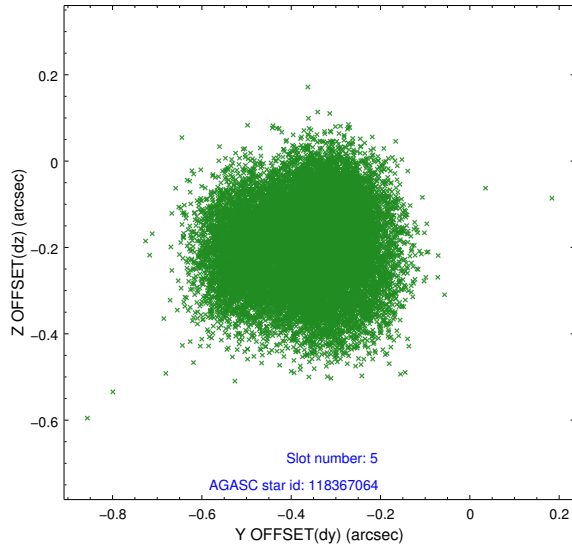
2.4.1 Slot 3



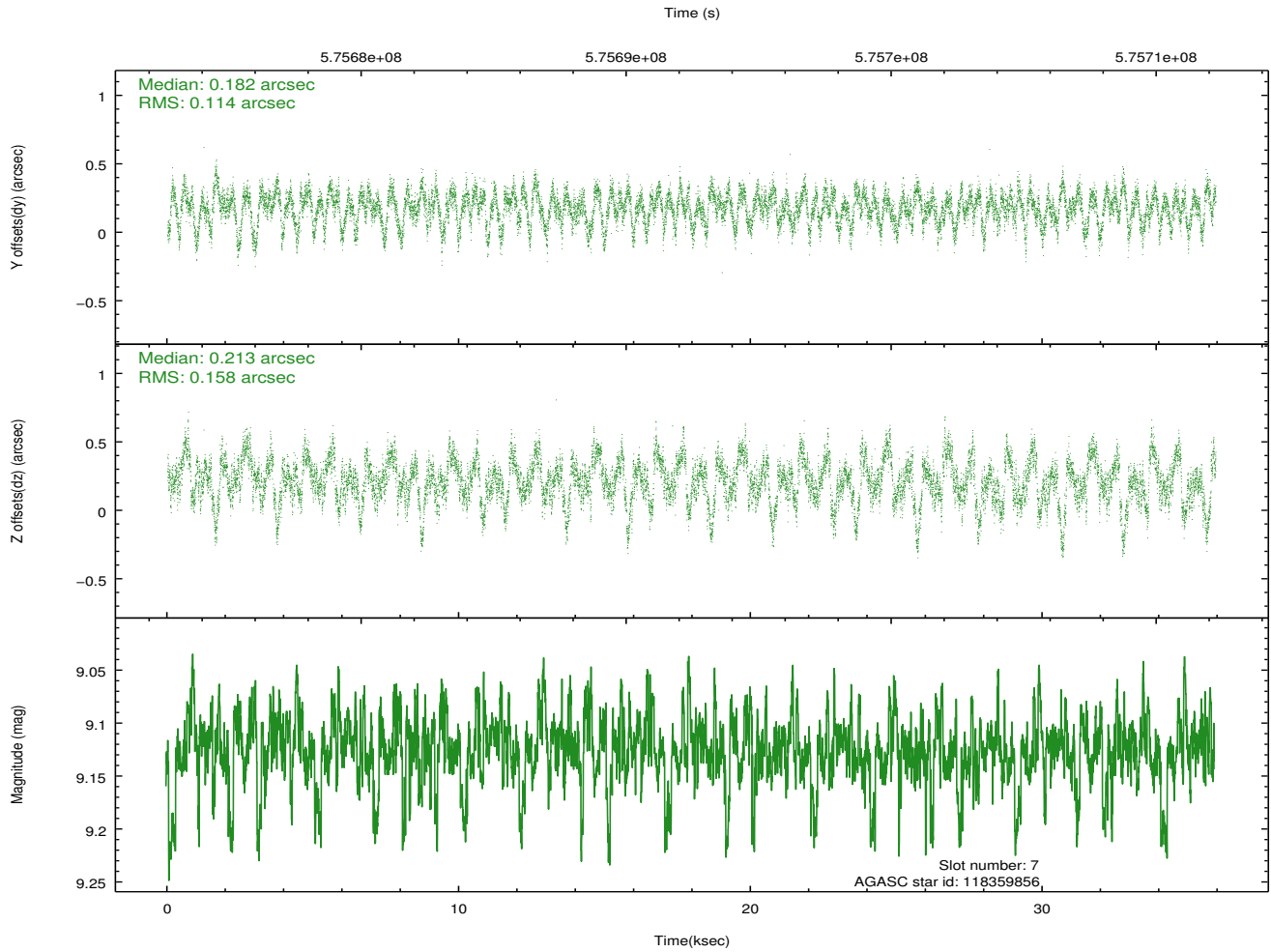
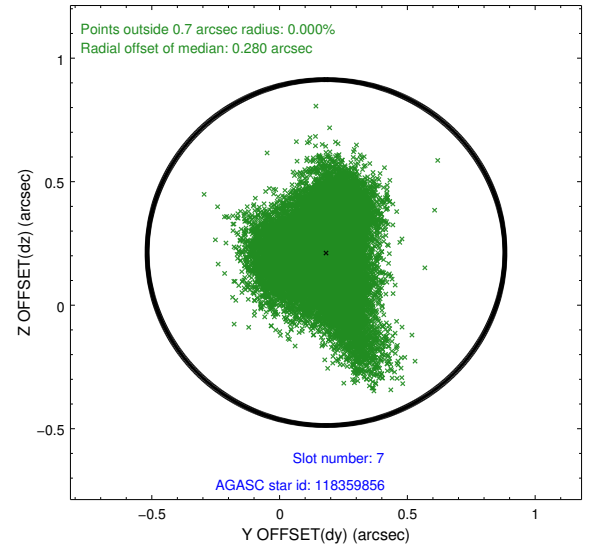
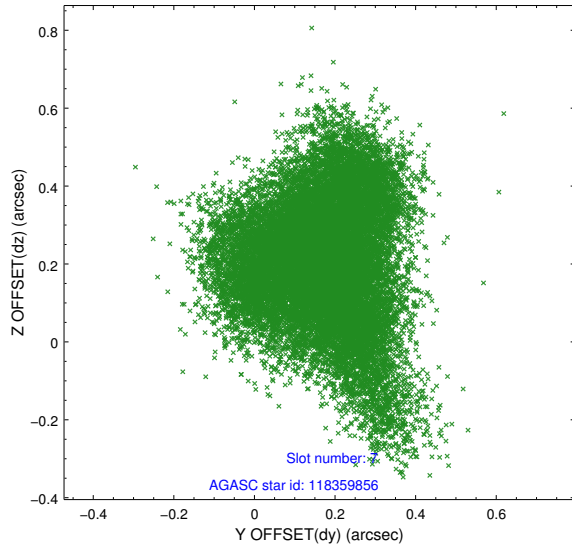
2.4.2 Slot 4



2.4.3 Slot 5

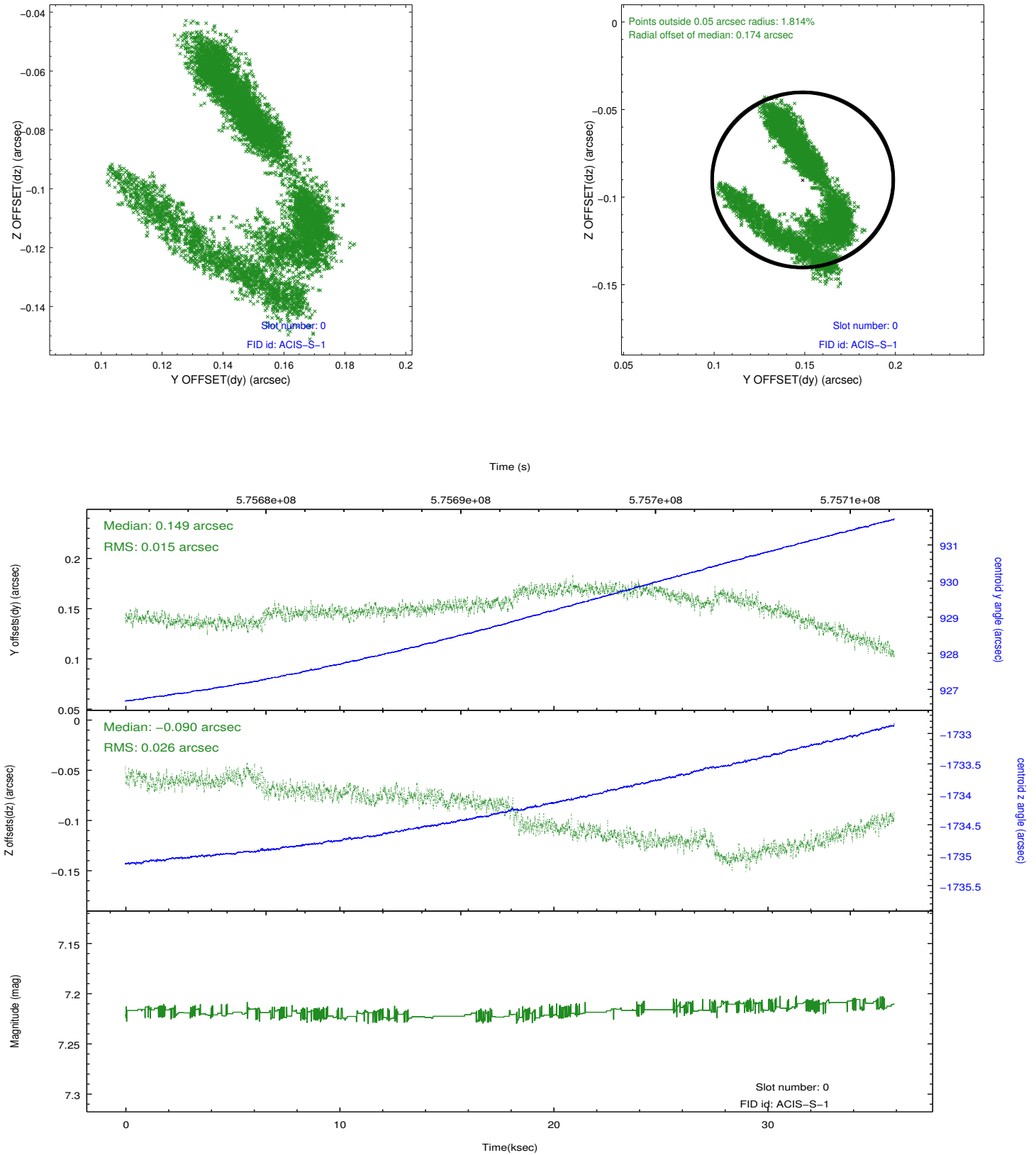


2.4.4 Slot 7

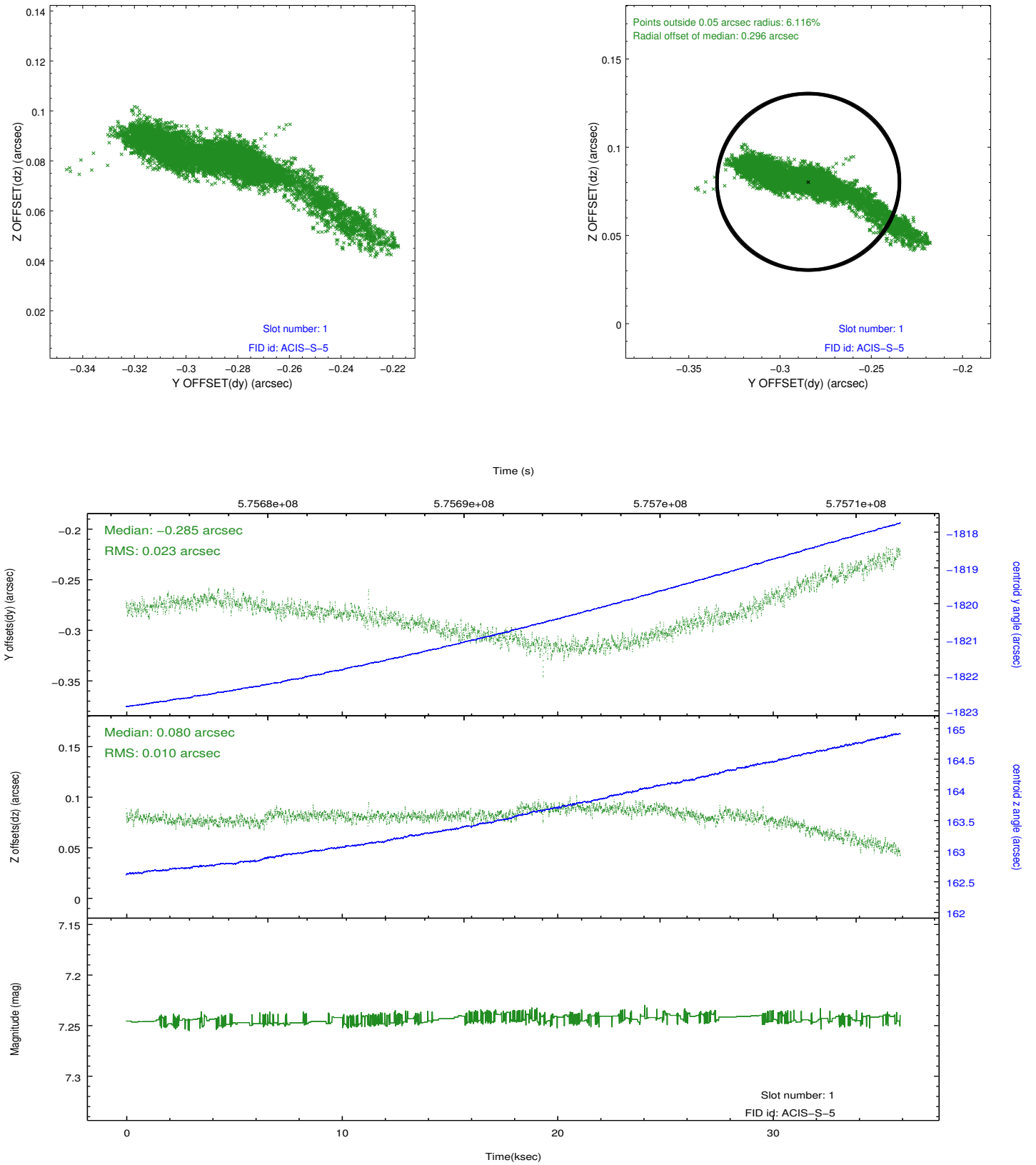


2.5 FID Slots

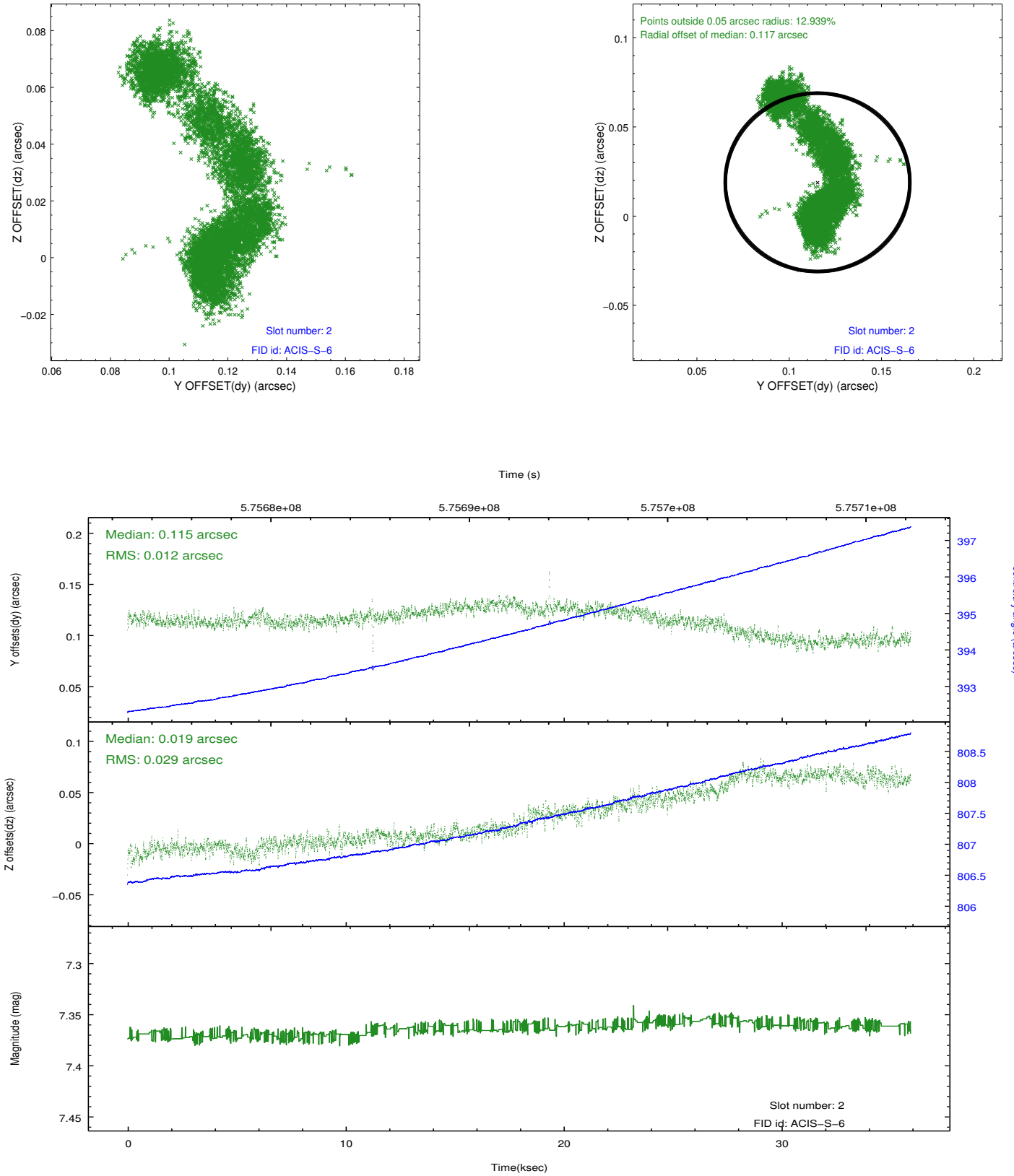
2.5.1 Slot 0



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)	2016.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.313

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.

Optional chips S1 and S4 were dropped.

This observation, originally scheduled for ~78 ksec, has been divided into two shorter segments. This portion, obsid 17047, has an ontime of ~35 ksec. The remaining ~44 ksec of exposure time has been designated as obsid 18826.