

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18187 - L2 Version 1
Chandra X-Ray Center

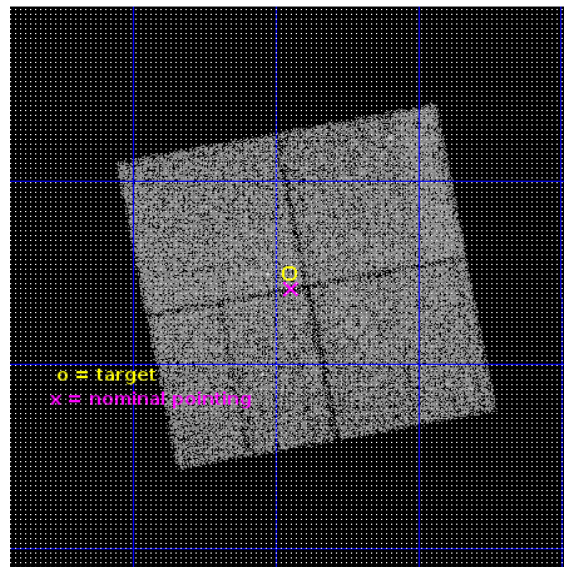
L2 Processing Date : Mar 22 2017

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

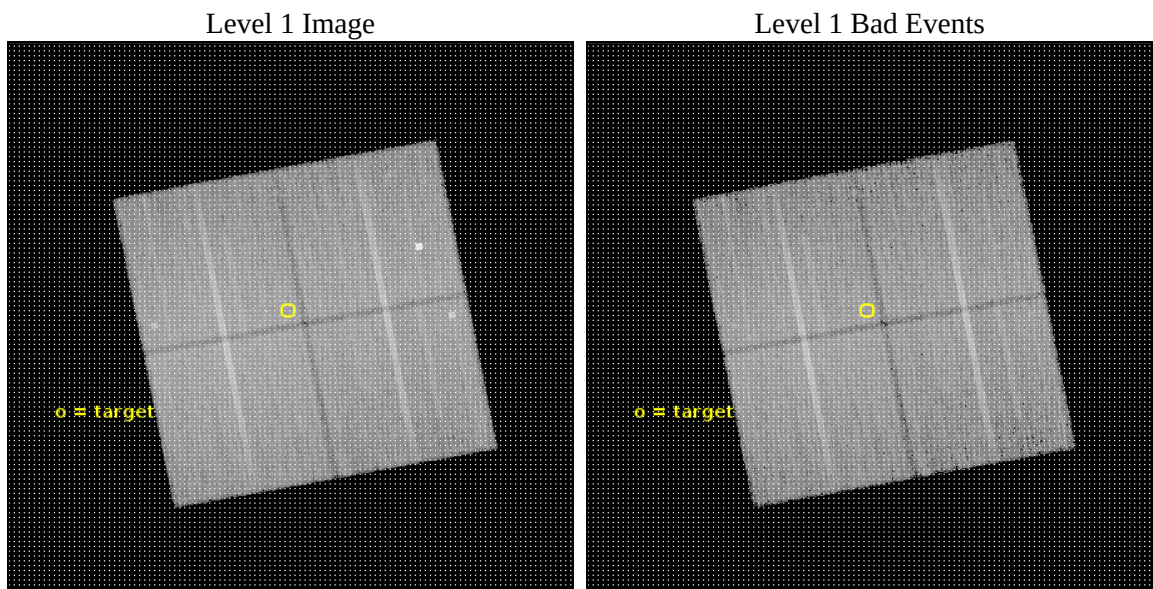
seq_num	703249	Sequence number
obs_id	18187	Observation id
title	QSOs at z=6: Black Hole Growth and Feedback in the Early Universe	
observer	Dr Roberto Gilli	Principal investigator
object	SDSSJ1030+0524	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	157.612917	Observer's specified target RA [deg]
dec_targ	5.415278	Observer's specified target Dec [deg]
ra_nom	157.61110776355	Nominal RA [deg]
dec_nom	5.401982703291	Nominal Dec [deg]
roll_nom	259.20887029449	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40934.785092354	Sum of GTIs [s]
livetime	40399.941989372	Livetime [s]
ontime0	40937.803032637	Sum of GTIs [s]
ontime1	40937.844112277	Sum of GTIs [s]
ontime2	40937.88510251	Sum of GTIs [s]
ontime3	40934.785092354	Sum of GTIs [s]
l2events	106069	Number of level 2 events



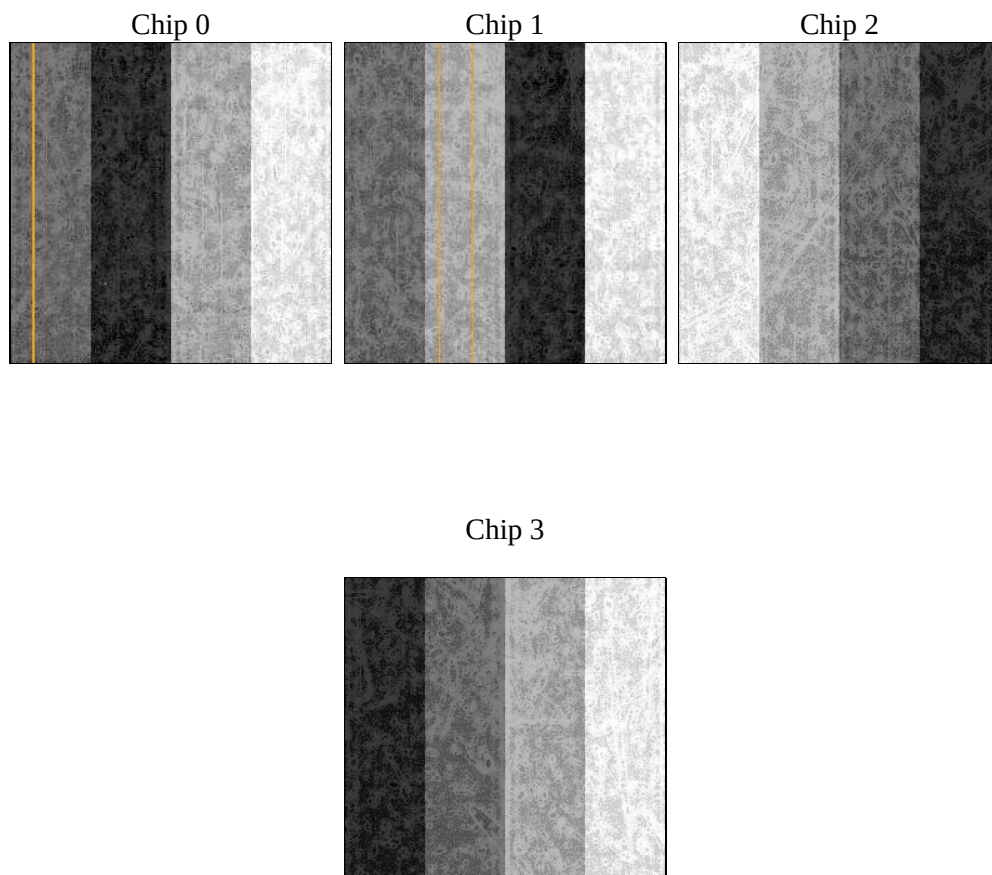
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40860.318000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	40934.785092354	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	40937.803032637	Sum of GTIs [s]
date	2017-03-23T02:17:02	Date and time of file creation	ontime1	40937.844112277	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40937.88510251	Sum of GTIs [s]
			ontime3	40934.785092354	Sum of GTIs [s]
			l1events	1134619	Number of level 1 events

2.1.4 Events

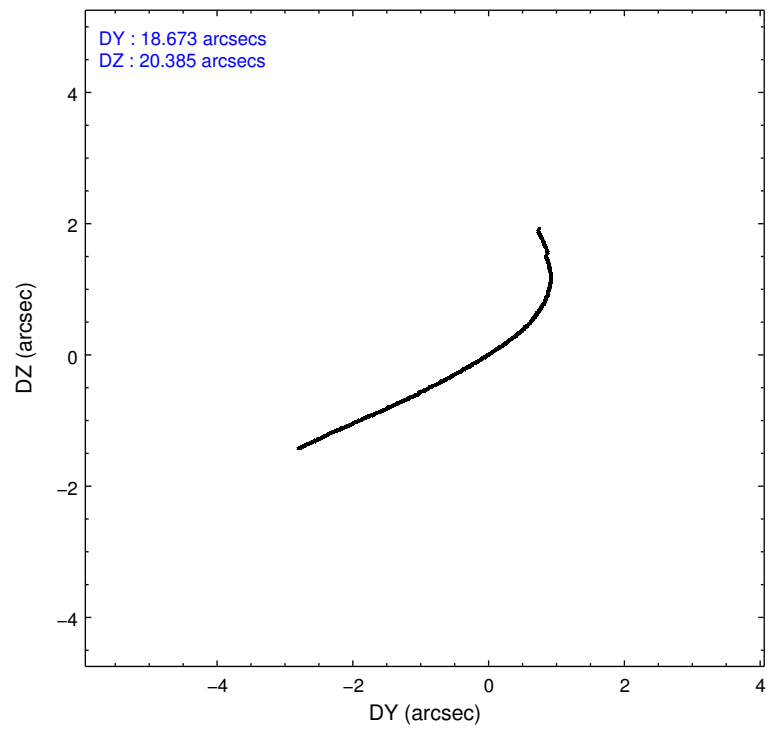
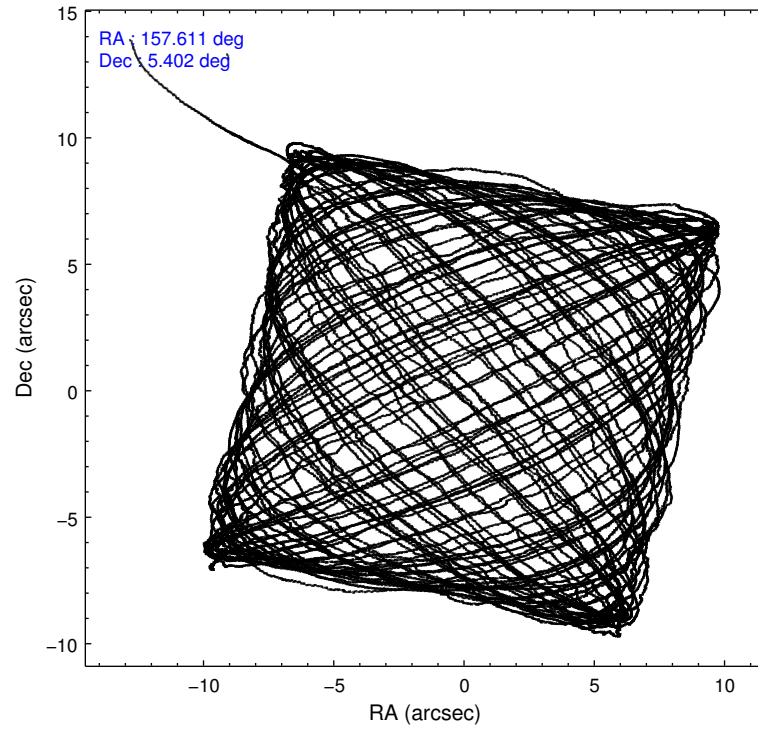
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	269420	279358	300656	285185
rejected events	236040	237169	269868	254104
rejected %	87%	84%	89%	89%

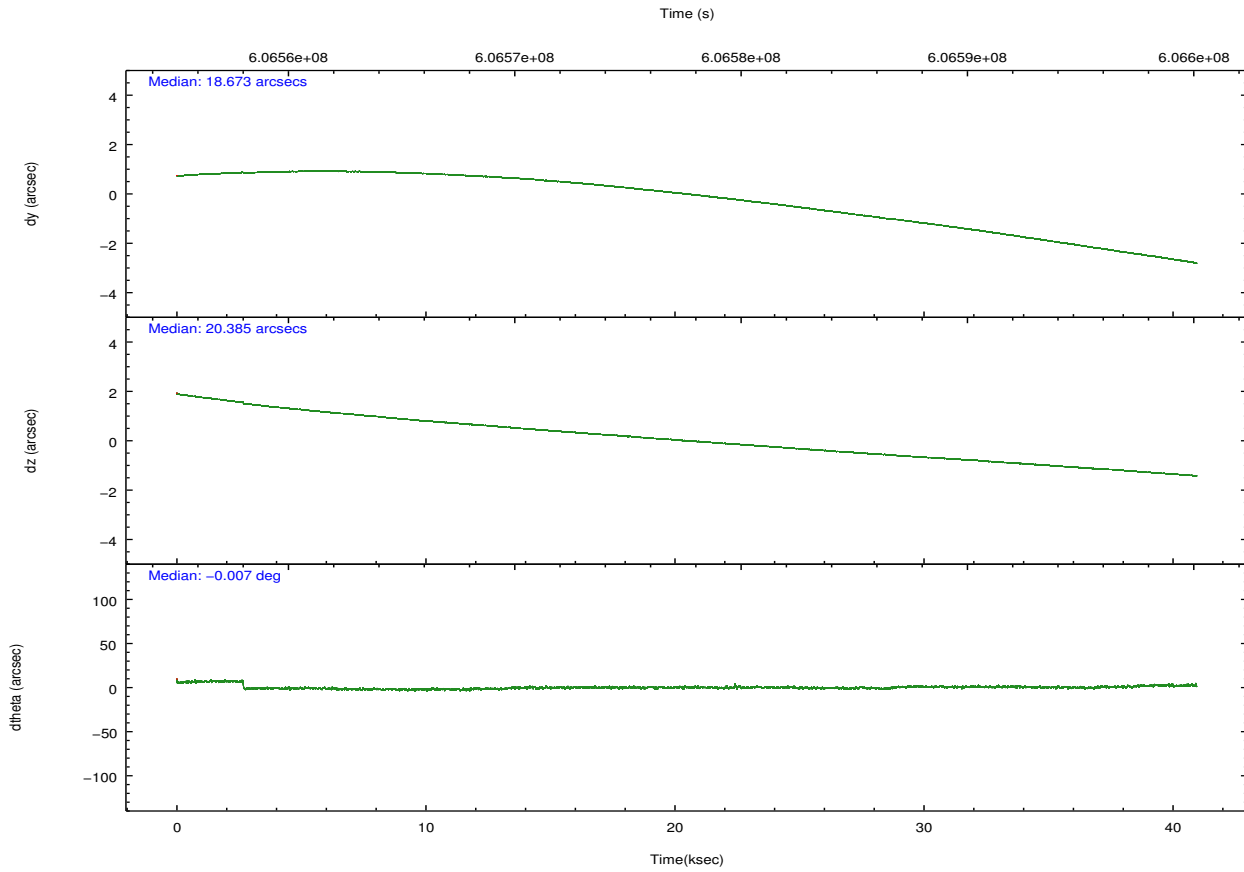
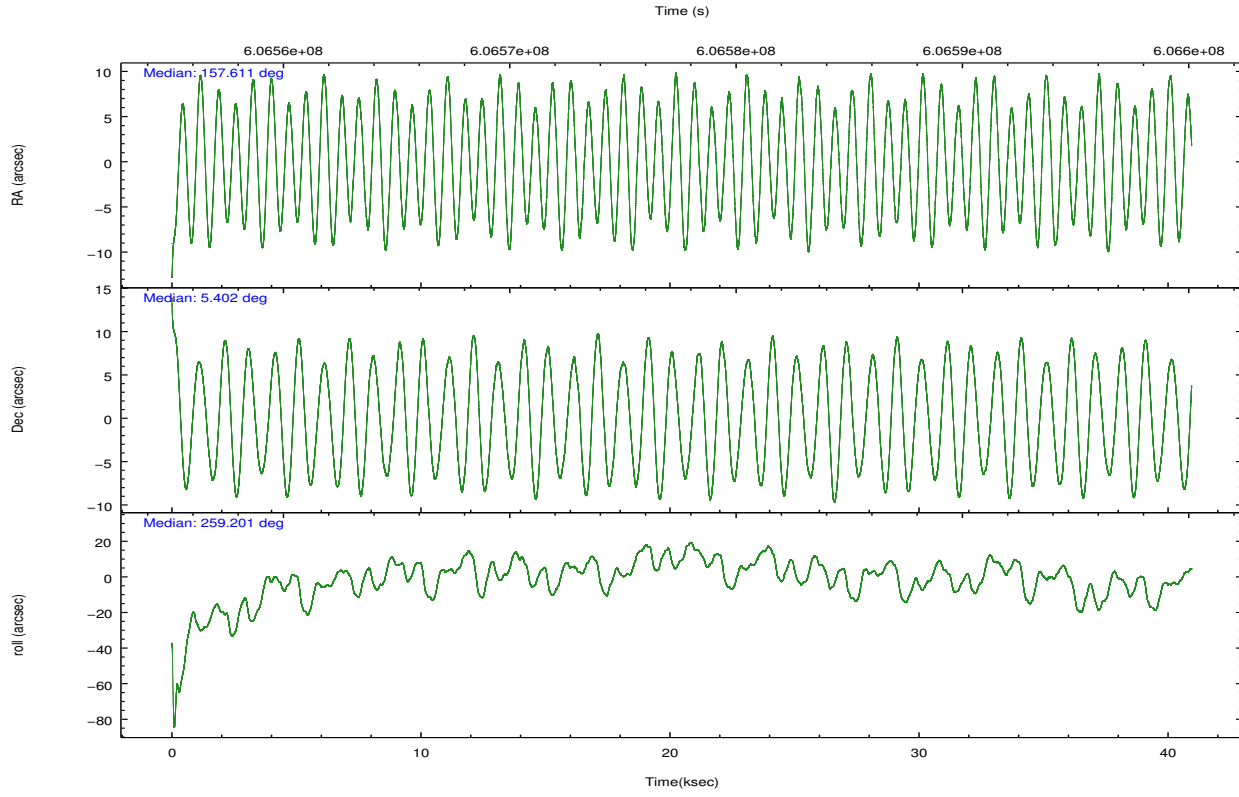
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	12459	18973	10997	10582
	4%	6%	3%	3%
grade 1 events	221	221	170	157
	0%	0%	0%	0%
grade 2 events	7840	8500	7517	7402
	2%	3%	2%	2%
grade 3 events	3263	3369	3162	3318
	1%	1%	1%	1%
grade 4 events	3037	3256	3121	3201
	1%	1%	1%	1%
grade 5 events	11792	12453	11089	13943
	4%	4%	3%	4%
grade 6 events	6786	8095	5993	6587
	2%	2%	1%	2%
grade 7 events	224022	224491	258607	239995
	83%	80%	86%	84%

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	157.601885	157.6111077635498	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.428016	5.401982703291031	Alternating exposures requested	N	N
[deg] Pointing Roll	259.001034	259.2088702944863	[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)	606557229.184000	606555816.00301			
Observation start date	2017-03-22T08:06:00	2017-03-22T07:43:36			
[s] Observation end time (MET)	606598089.184000	606598323.26797			
Observation end date	2017-03-22T19:27:00	2017-03-22T19:32:03			
Read mode	TIMED	TIMED			

2.3 Aspect



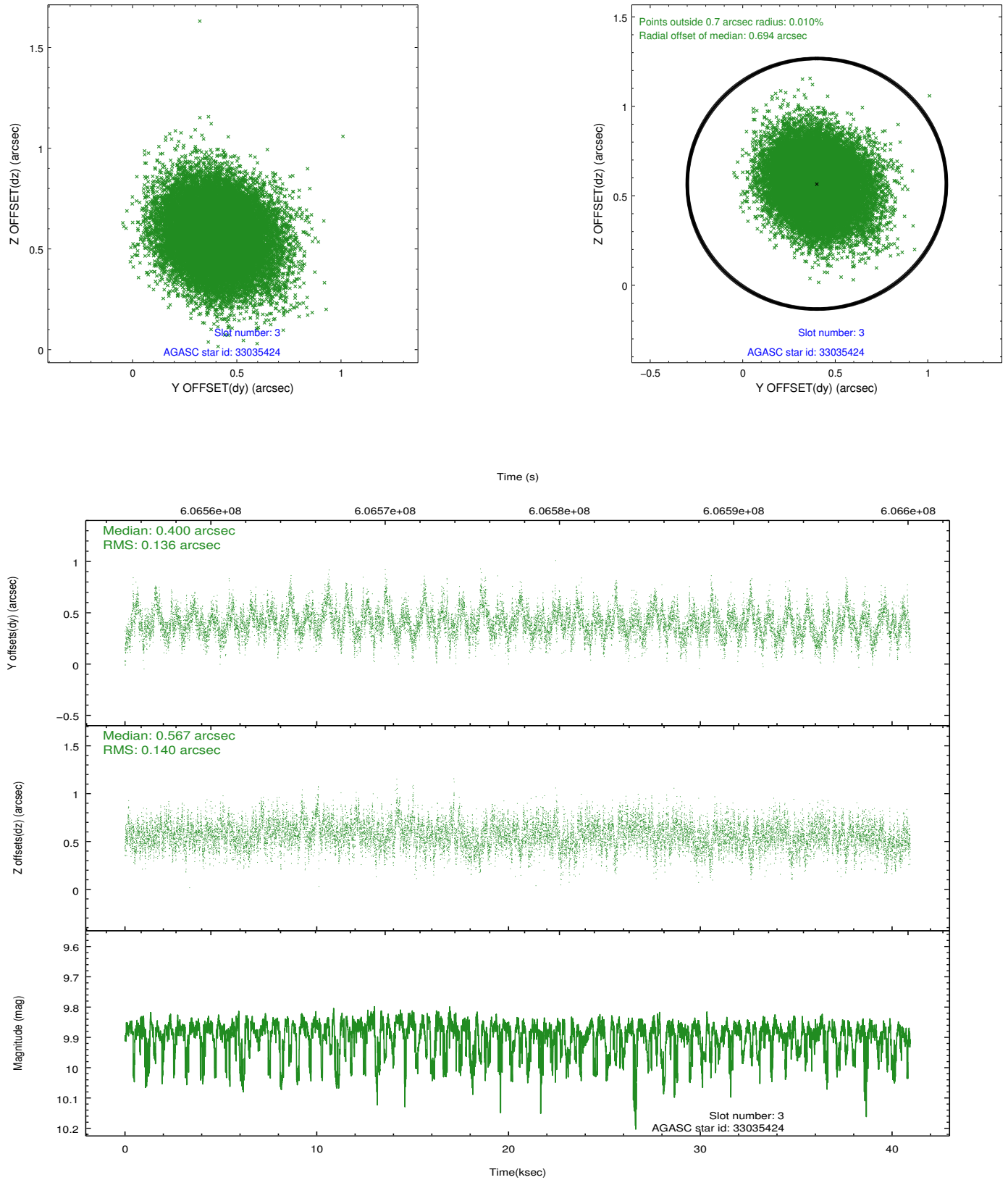


Slot Statistics

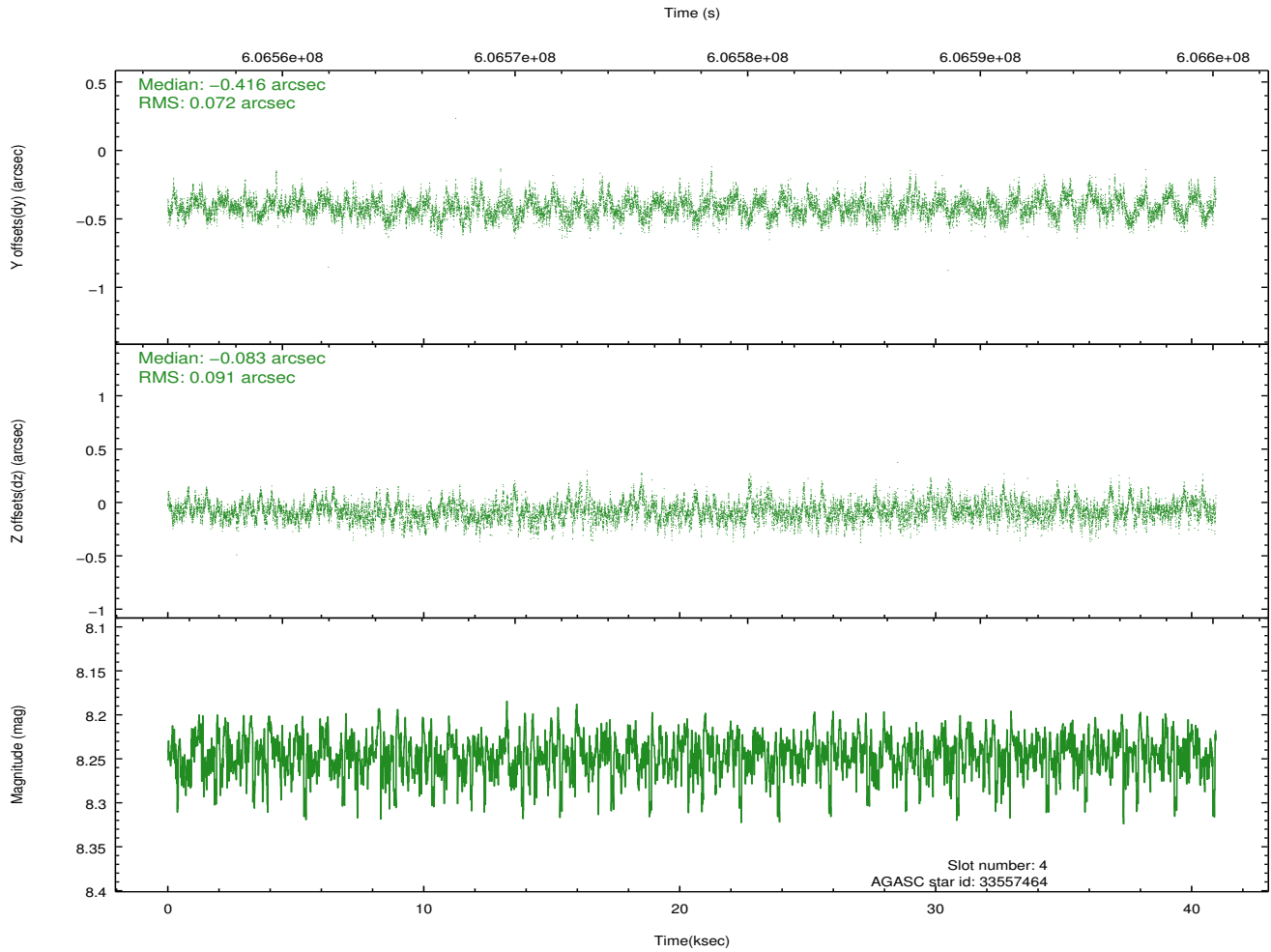
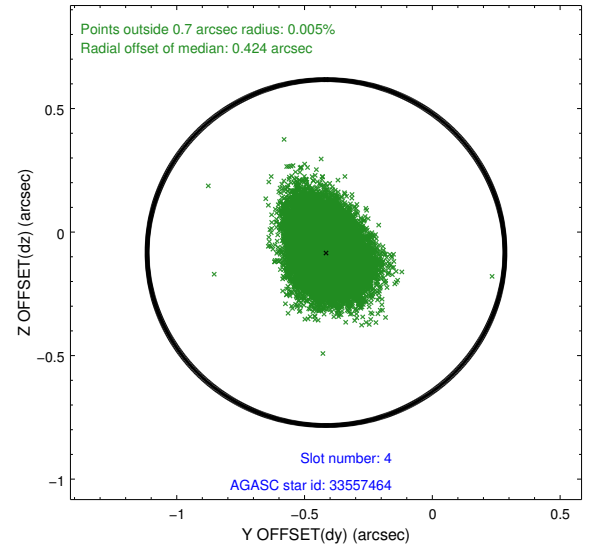
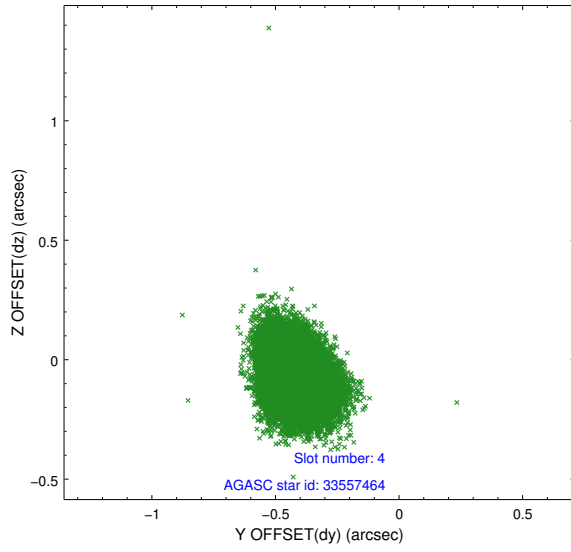
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-4	7.13	9985	0.402	0.031	0.029	0.044	0.000000	0.000000	2141.30	1055.90
1	FID		ACIS-I-5	7.18	9985	-0.573	0.005	0.017	0.031	0.000000	0.000000	-1827.62	1053.33
2	FID		ACIS-I-6	7.20	9987	0.072	0.031	0.028	0.051	0.000000	0.000000	386.48	1697.87
3	GUIDE	used	33035424	9.89	19883	0.400	0.567	0.207	0.337	157.358260	5.687209	-748.50	-1034.40
4	GUIDE	used	33557464	8.25	19962	-0.416	-0.083	0.120	0.206	157.961805	4.935650	1493.16	1604.15
5	GUIDE	used	33951168	8.19	19968	-0.327	0.013	0.115	0.187	157.753293	5.341322	203.20	591.73
6	GUIDE	used	33949536	9.16	19946	-0.334	-0.852	0.149	0.243	158.026617	5.246866	349.14	1618.15
7	GUIDE	used	33948960	9.29	19948	0.679	0.354	0.177	0.267	158.045331	5.204179	488.14	1714.70

2.4 Star Slots

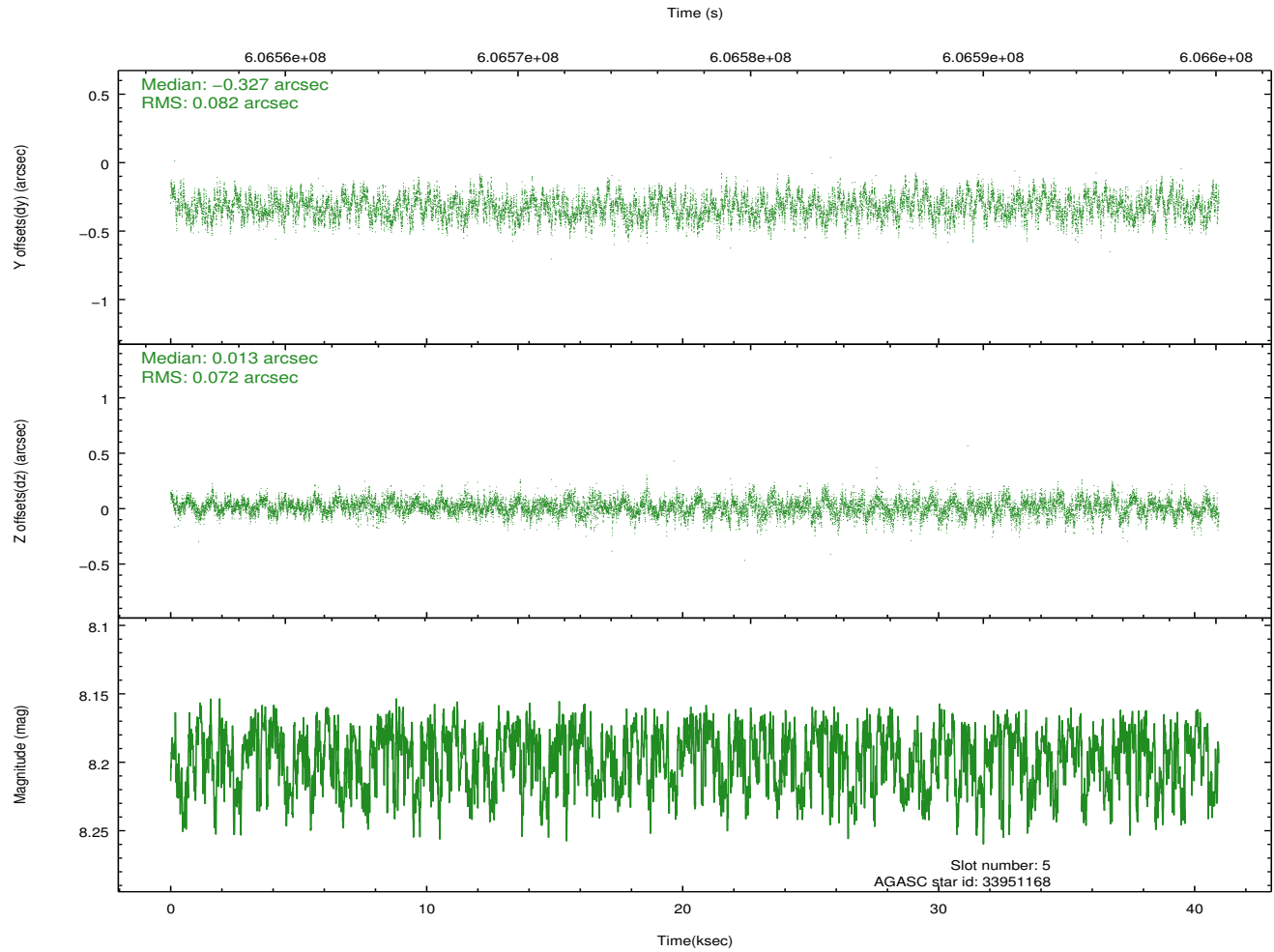
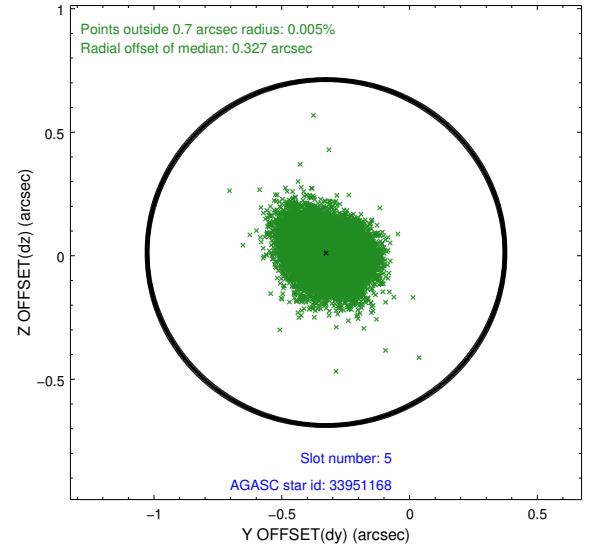
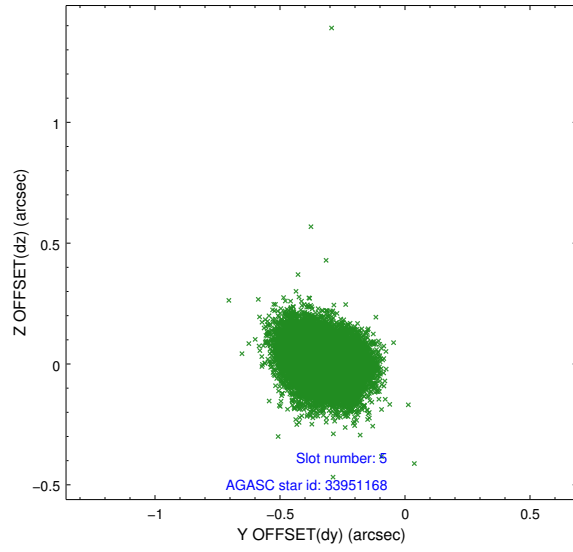
2.4.1 Slot 3



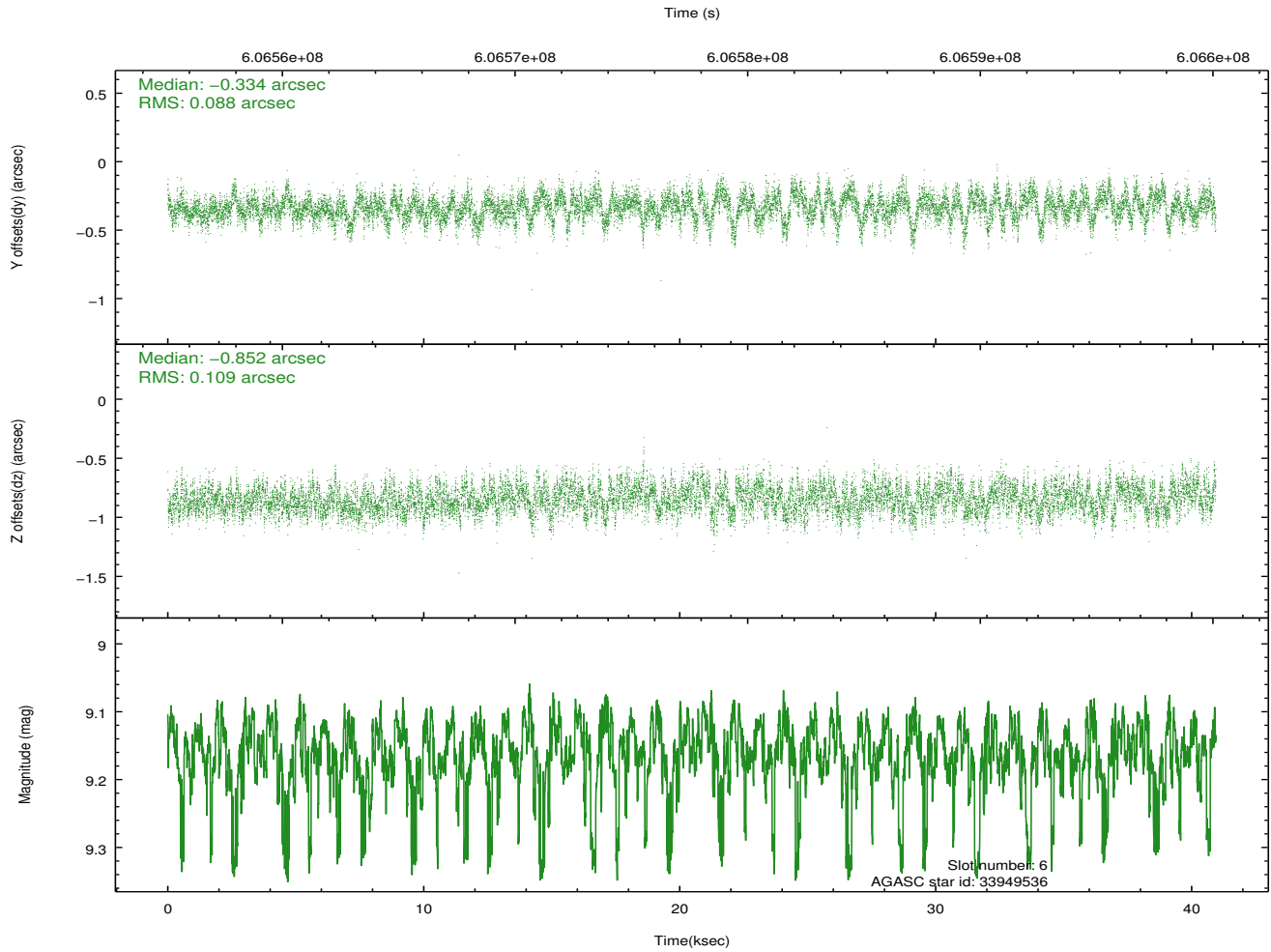
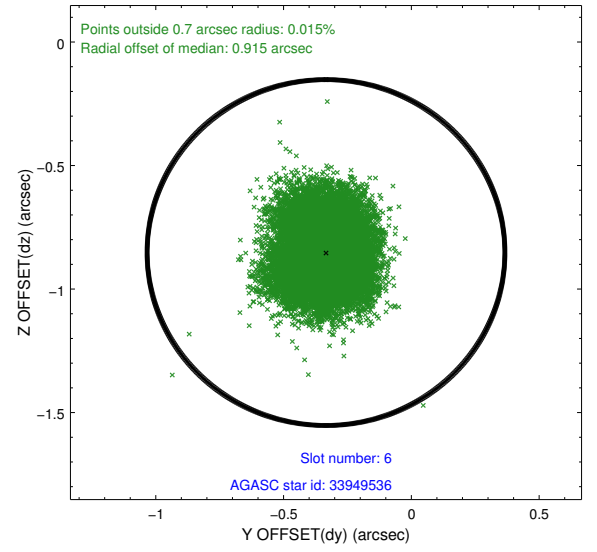
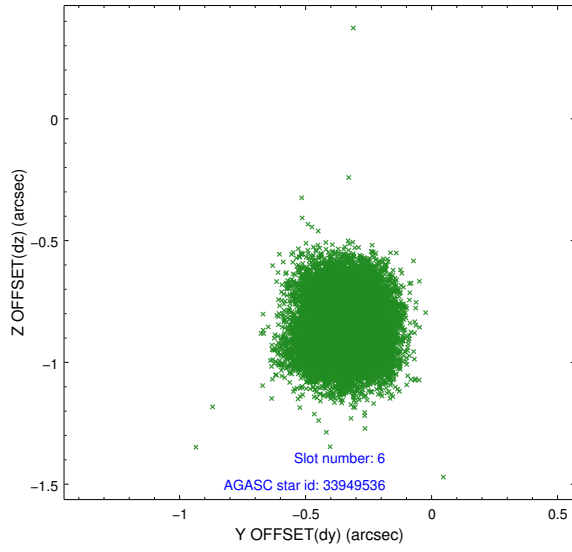
2.4.2 Slot 4



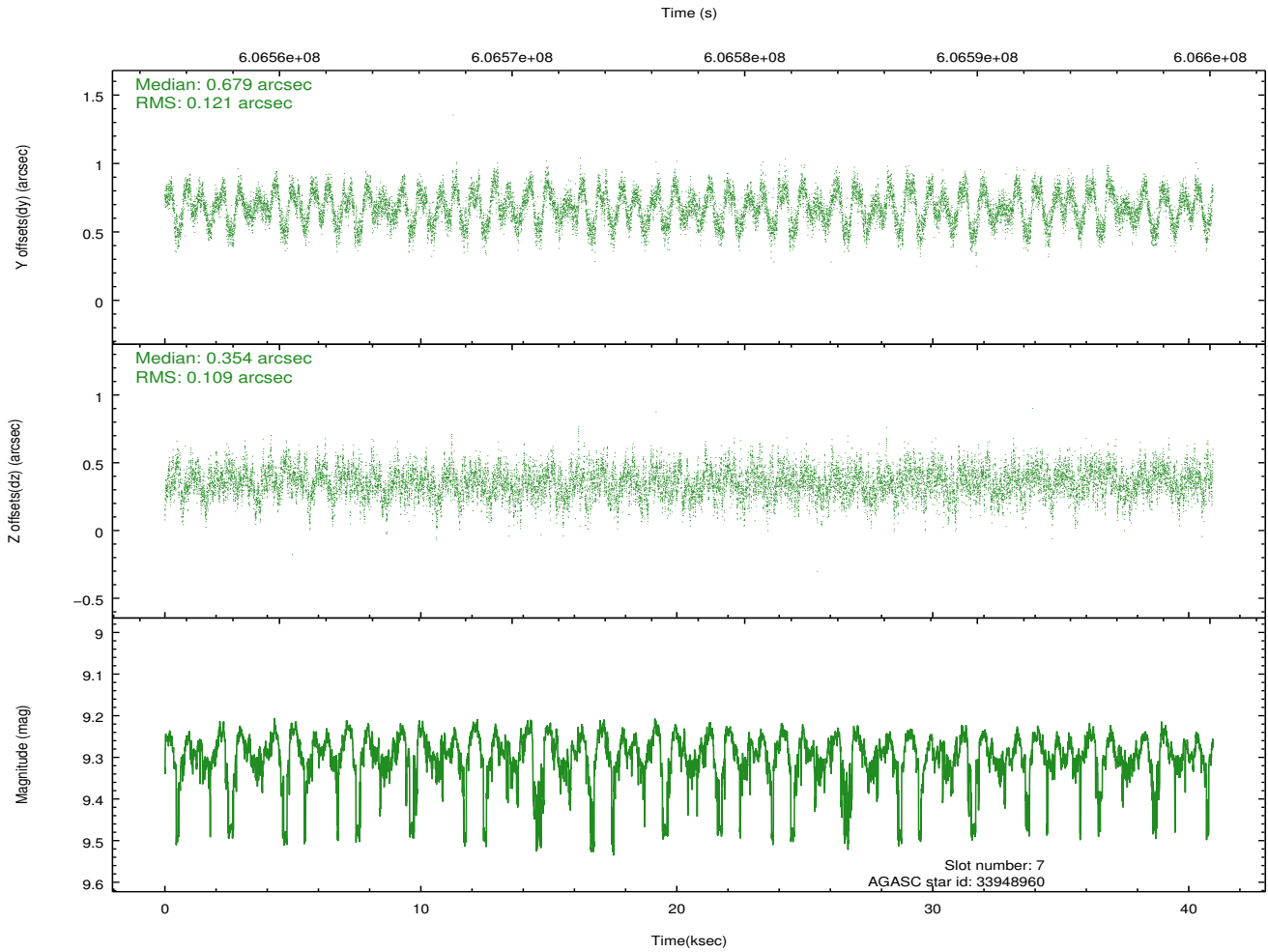
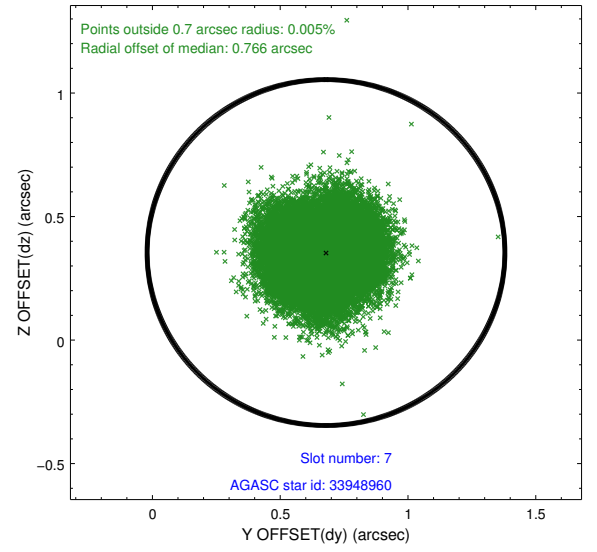
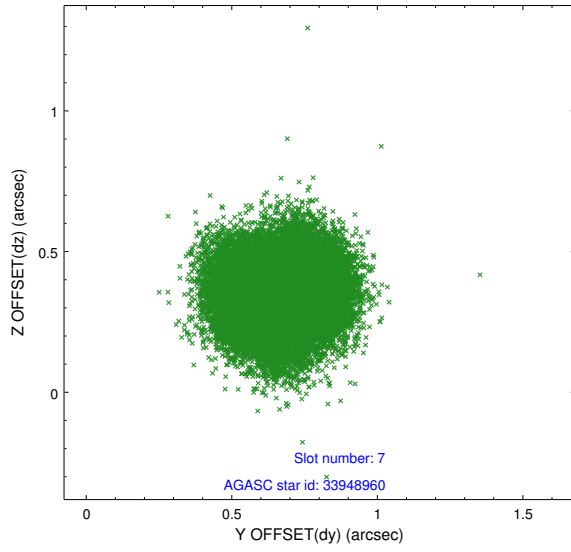
2.4.3 Slot 5



2.4.4 Slot 6

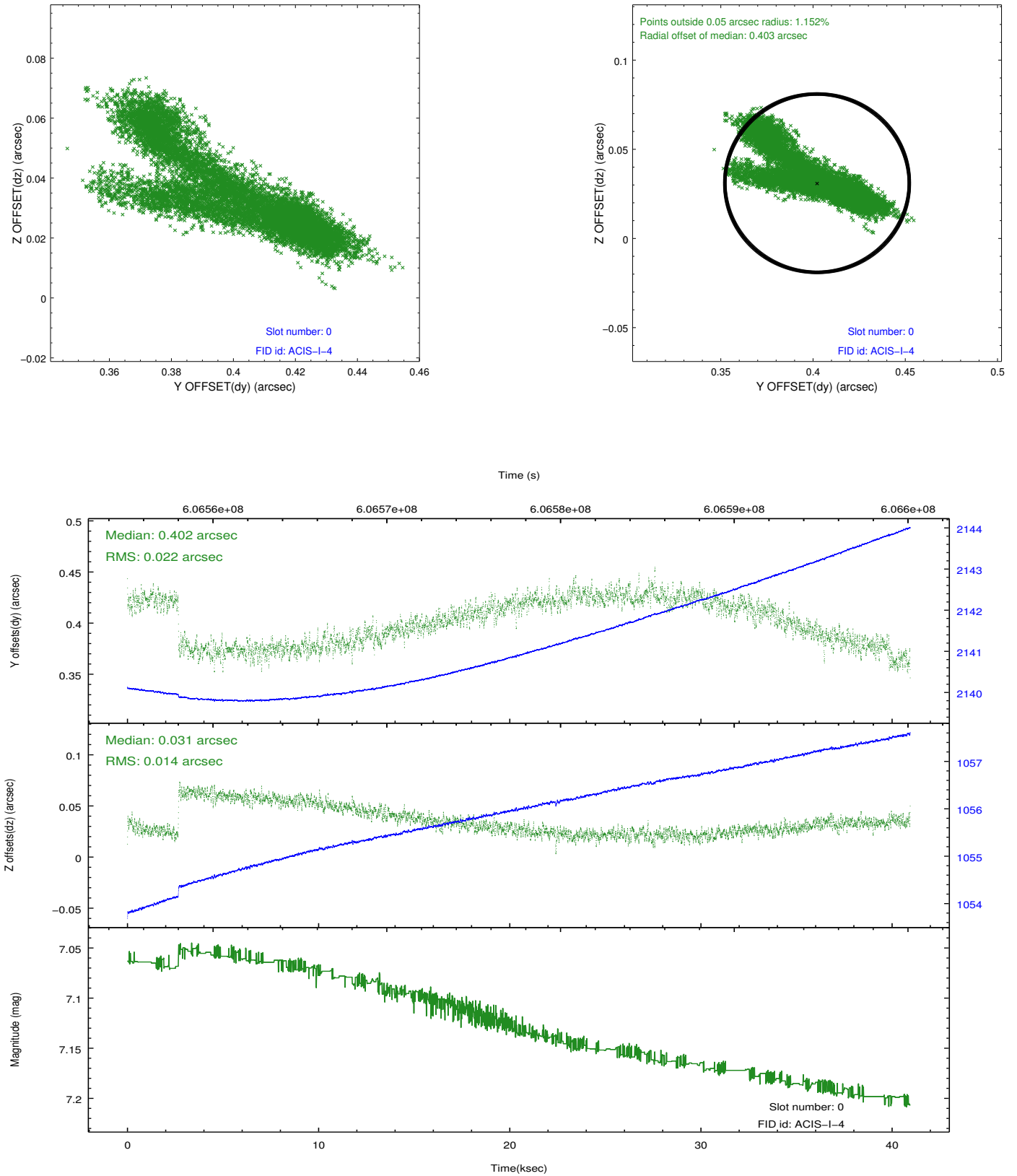


2.4.5 Slot 7

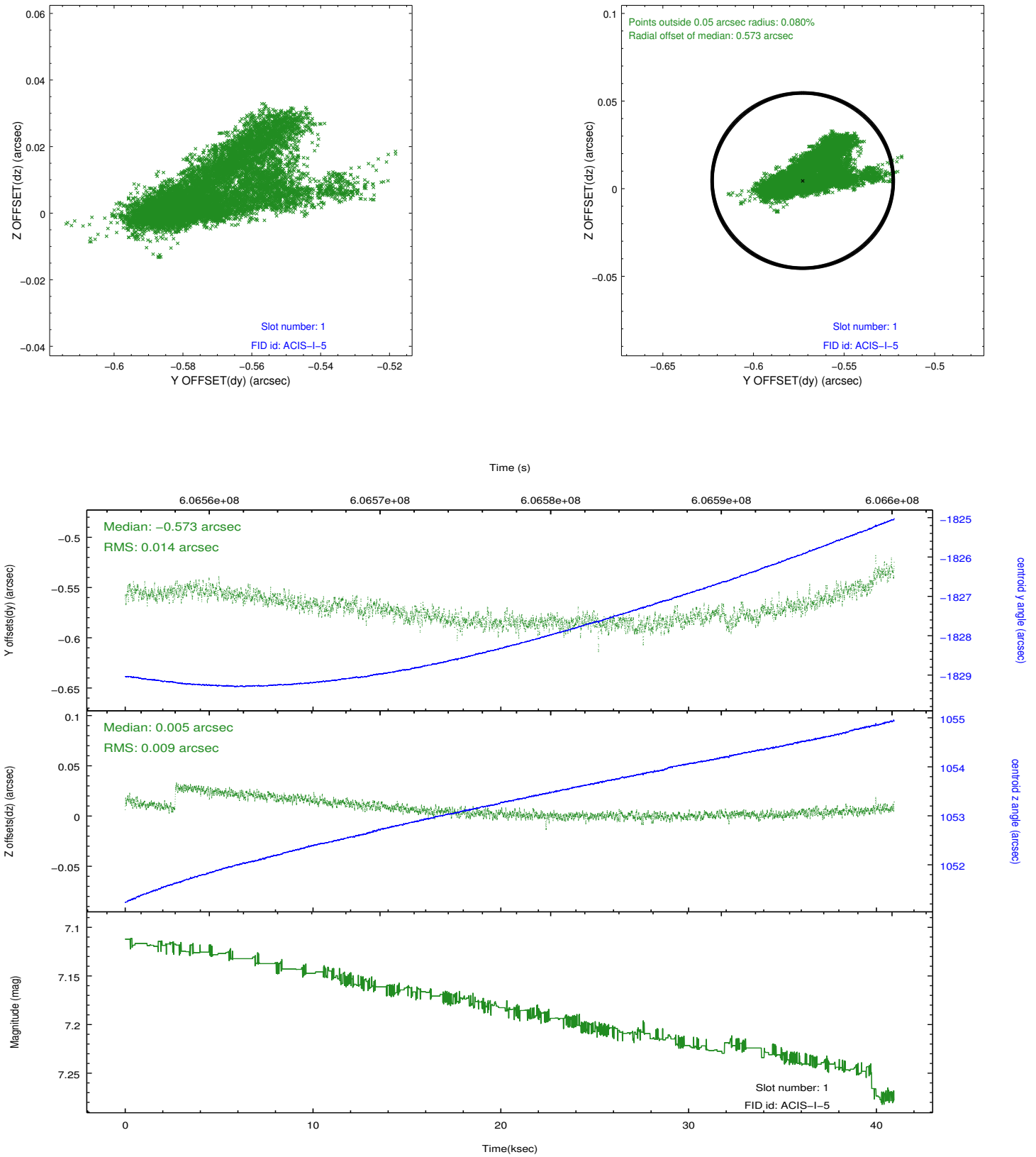


2.5 FID Slots

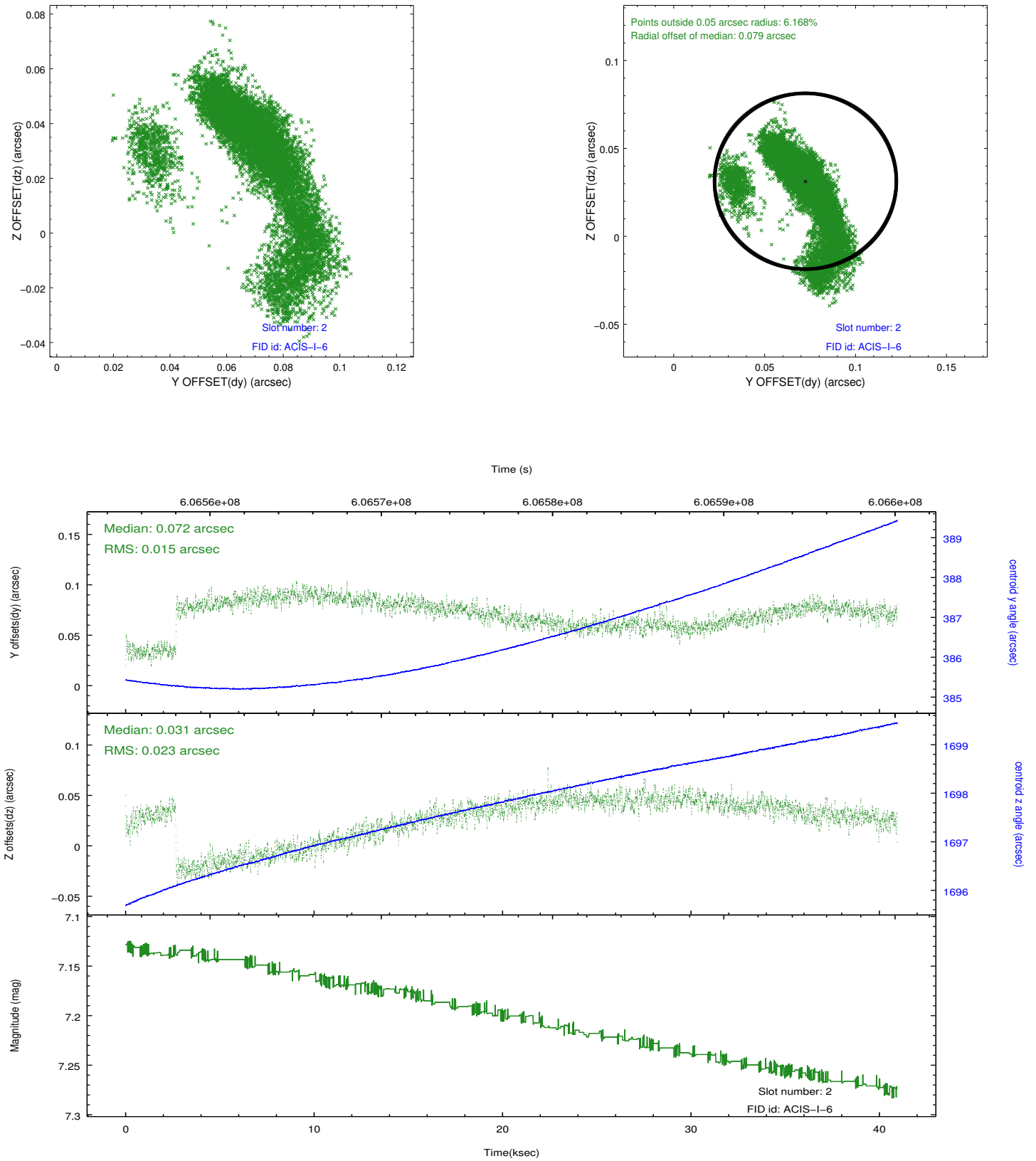
2.5.1 Slot 0



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)	2017.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.934785092354

A.2 Comments