

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17443 - L2 Version 1
Chandra X-Ray Center

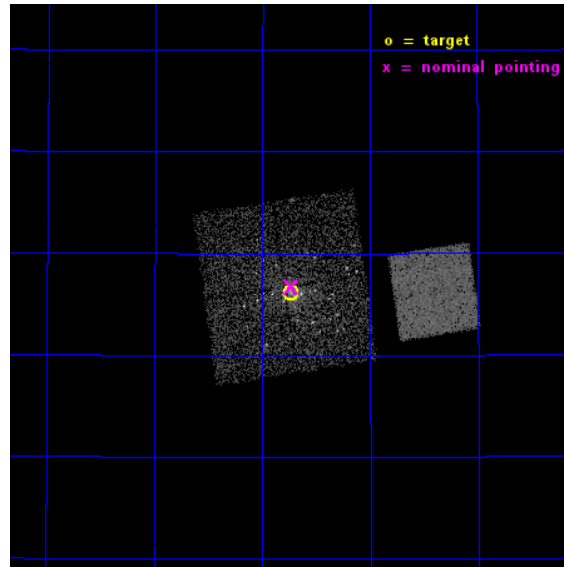
L2 Processing Date : May 26 2015

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1 Front

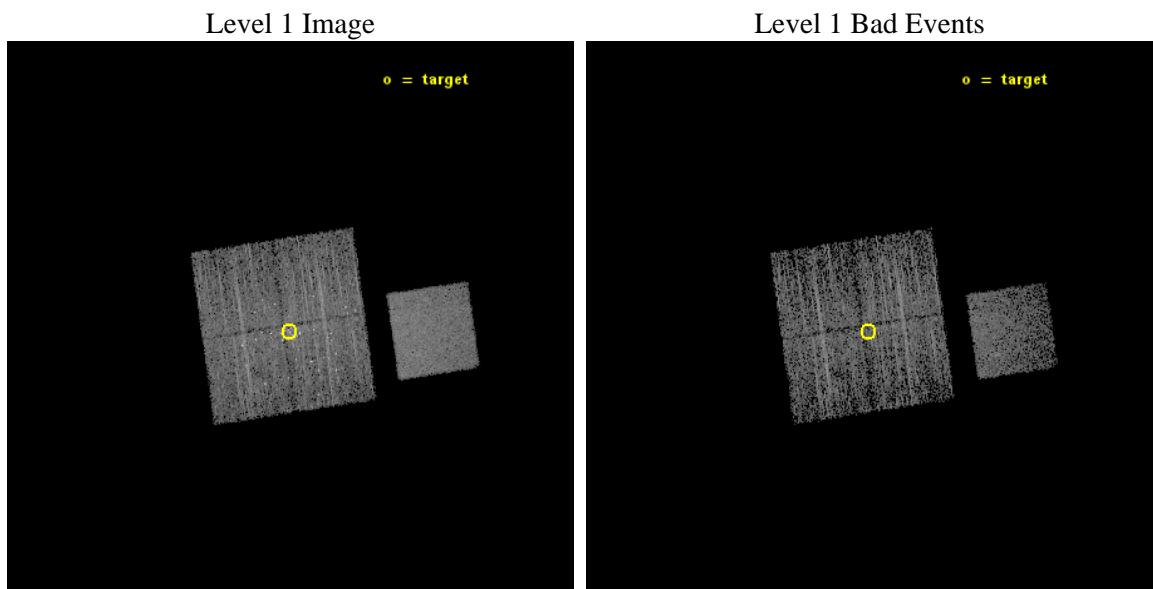
seq_num	401676	Sequence number
obs_id	17443	Observation id
title	Monitoring the central region of M31 for X-ray transients	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	M31 bulge	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.269028	Observer's specified target Dec [deg]
ra_nom	10.682604605225	Nominal RA [deg]
dec_nom	41.278860522131	Nominal Dec [deg]
roll_nom	81.656620762468	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5053.0000389814	Sum of GTIs [s]
livetime	4986.9788735076	Livetime [s]
ontime0	5053.0000389814	Sum of GTIs [s]
ontime1	5053.0000389814	Sum of GTIs [s]
ontime2	5053.0000389814	Sum of GTIs [s]
ontime3	5053.0000389814	Sum of GTIs [s]
ontime7	5053.0000389814	Sum of GTIs [s]
l2events	35967	Number of level 2 events



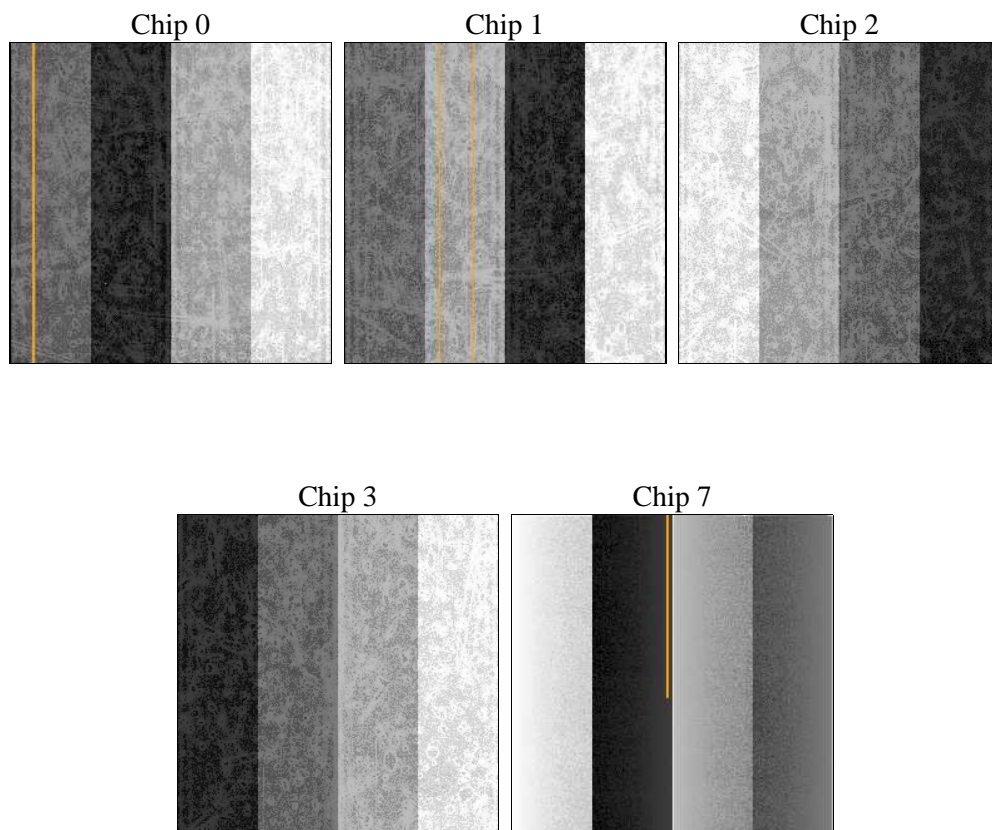
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.877000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	5053.0000389814	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	5053.0000389814	Sum of GTIs [s]
date	2015-05-26T19:22:27	Date and time of file creation	ontime1	5053.0000389814	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5053.0000389814	Sum of GTIs [s]
			ontime3	5053.0000389814	Sum of GTIs [s]
			ontime7	5053.0000389814	Sum of GTIs [s]
			l1events	145710	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	25085	27330	27309	30900	35086
rejected events	20595	21008	23283	22098	20172
rejected %	82%	76%	85%	71%	57%

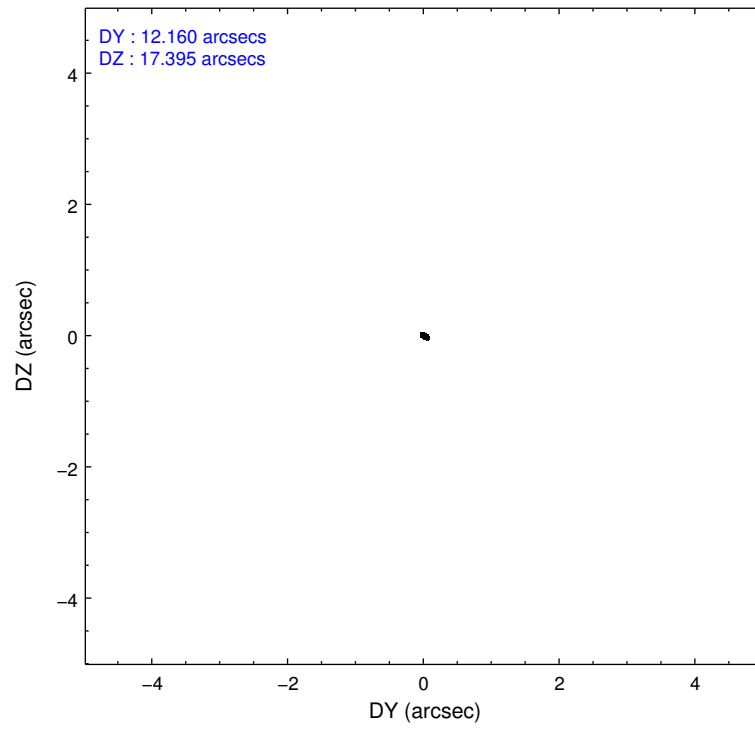
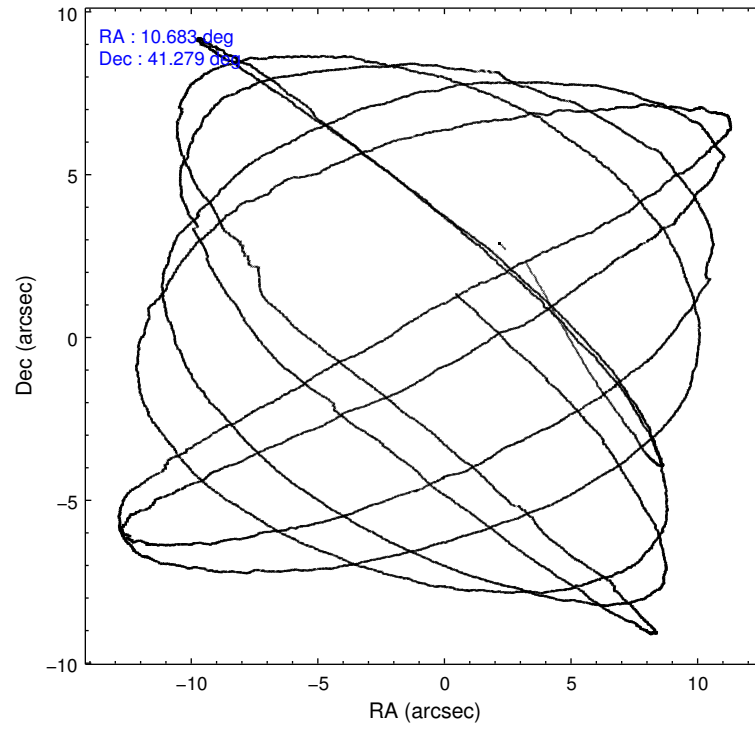
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	2274	3443	2005	5652	1319
	9%	12%	7%	18%	3%
grade 1 events	34	46	14	154	42
	0%	0%	0%	0%	0%
grade 2 events	895	1177	805	1256	3117
	3%	4%	2%	4%	8%
grade 3 events	333	478	335	546	1257
	1%	1%	1%	1%	3%
grade 4 events	332	409	331	536	1223
	1%	1%	1%	1%	3%
grade 5 events	1160	1255	1128	1452	3598
	4%	4%	4%	4%	10%
grade 6 events	662	822	558	820	8031
	2%	3%	2%	2%	22%
grade 7 events	19395	19700	22133	20484	16499
	77%	72%	81%	66%	47%

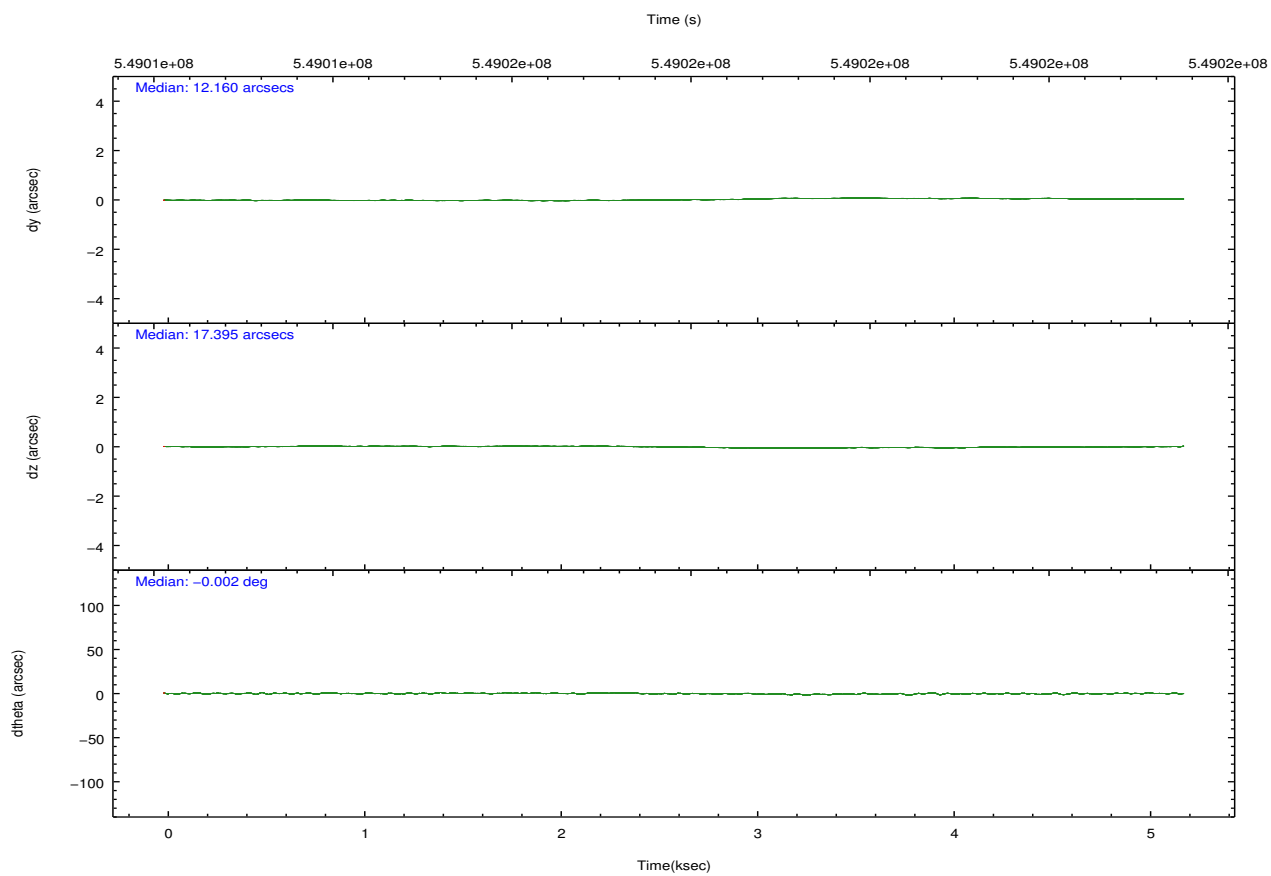
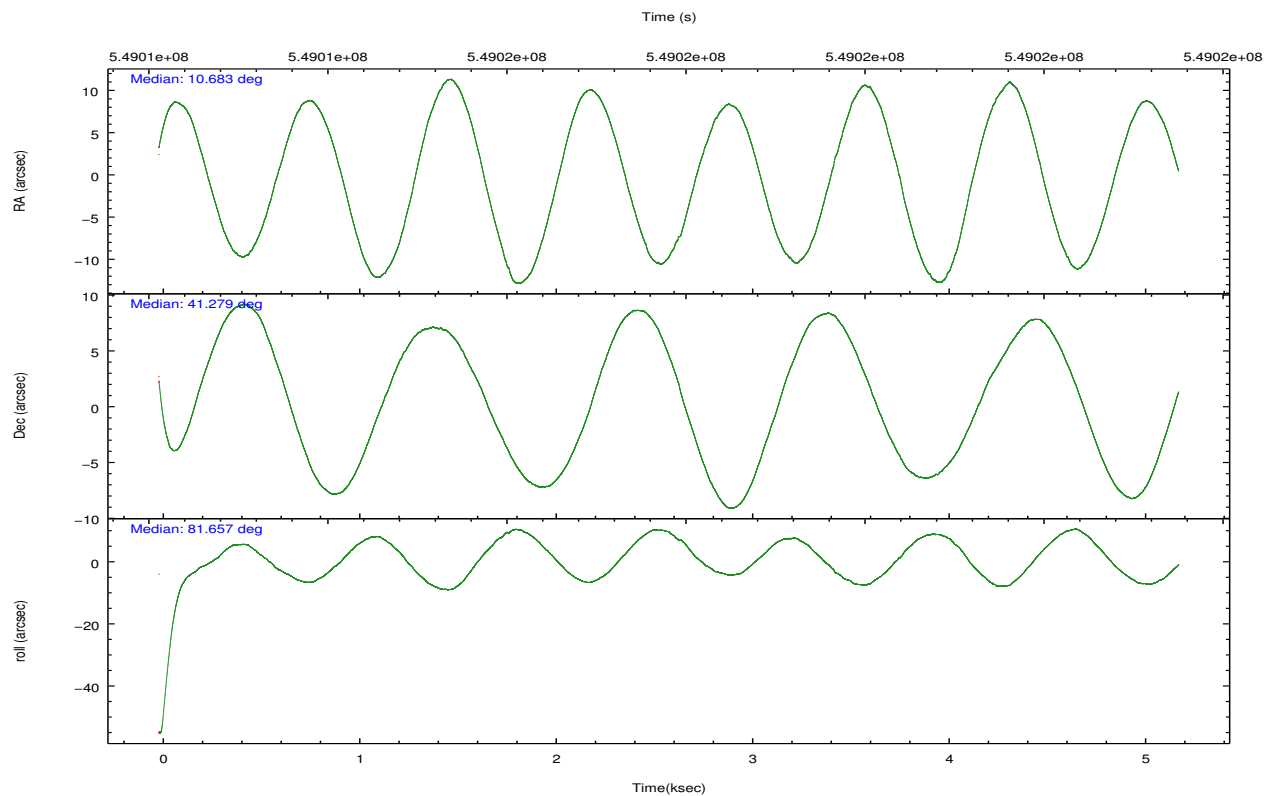
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01237	ACIS-01237
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	10.696191	10.68260460522538
[deg] Pointing Dec	41.253267	41.27886052213073
[deg] Pointing Roll	81.439118	81.6566207624679
[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)	549013480.184000	549012096.2294101
Observation start date	2015-05-26T07:43:33	2015-05-26T07:21:36
[s] Observation end time (MET)	549018481.184000	549018718.24228
Observation end date	2015-05-26T09:06:54	2015-05-26T09:11:58
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	N	N
CCD S3 on	O1	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
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



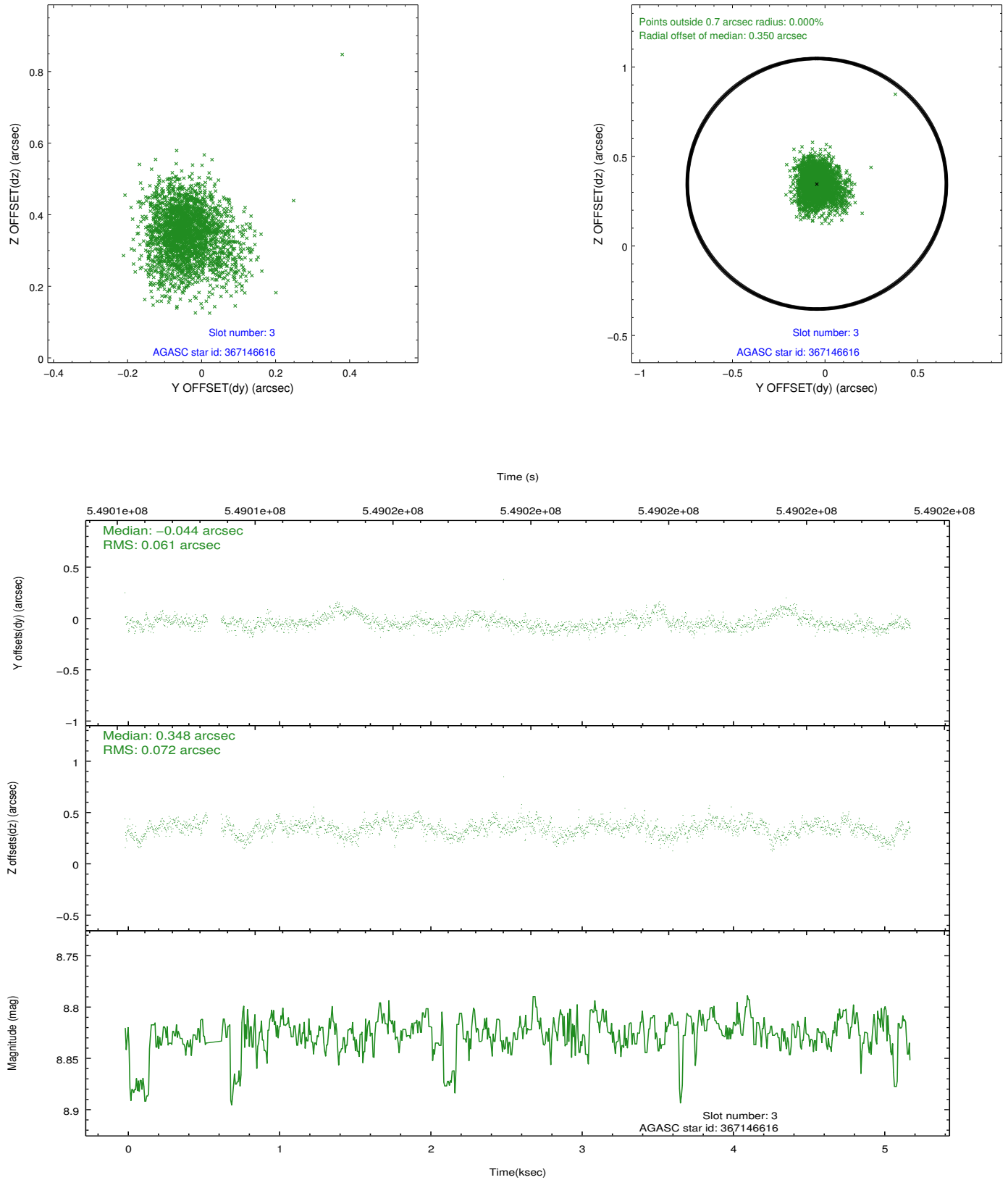


Slot Statistics

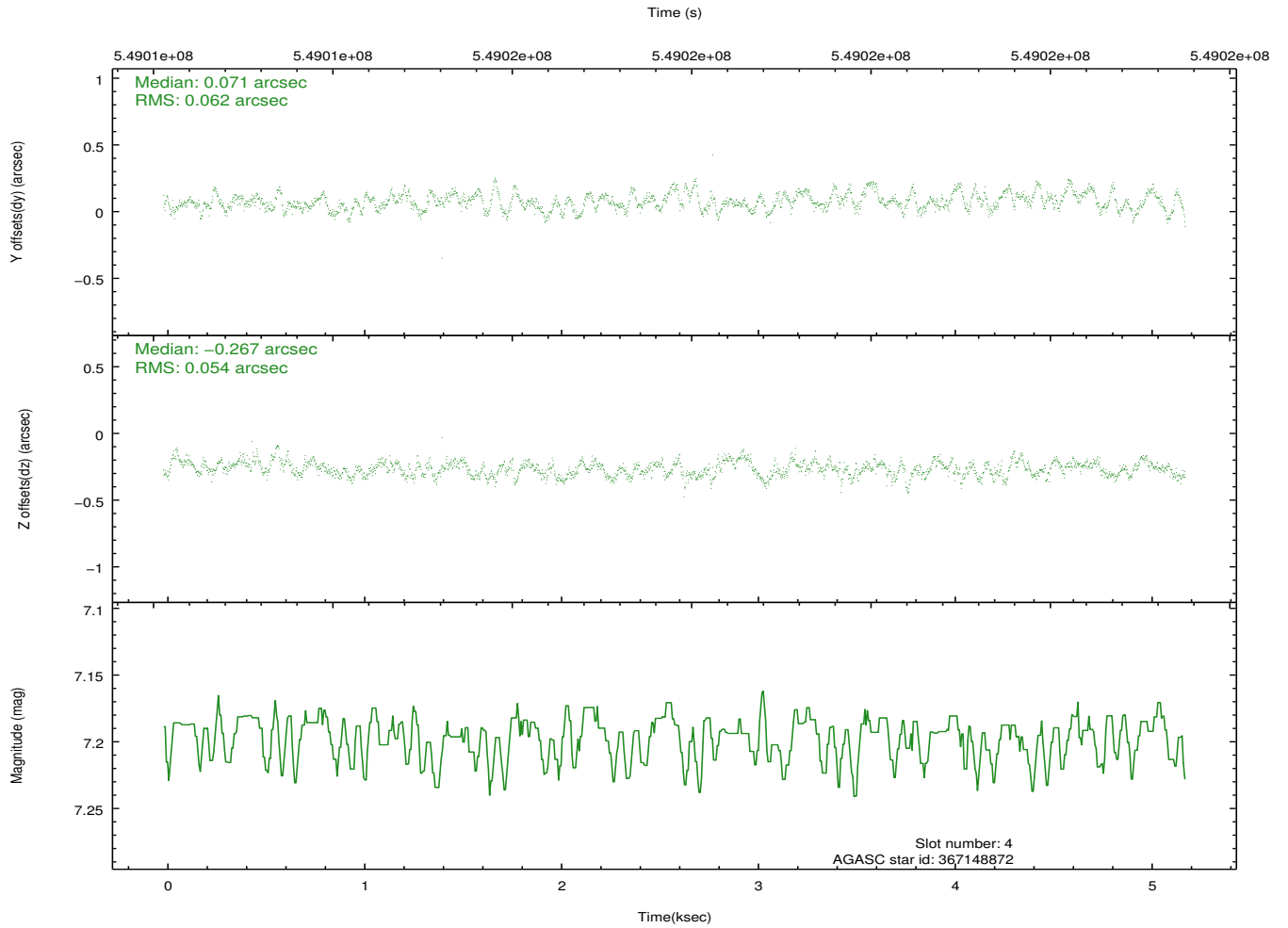
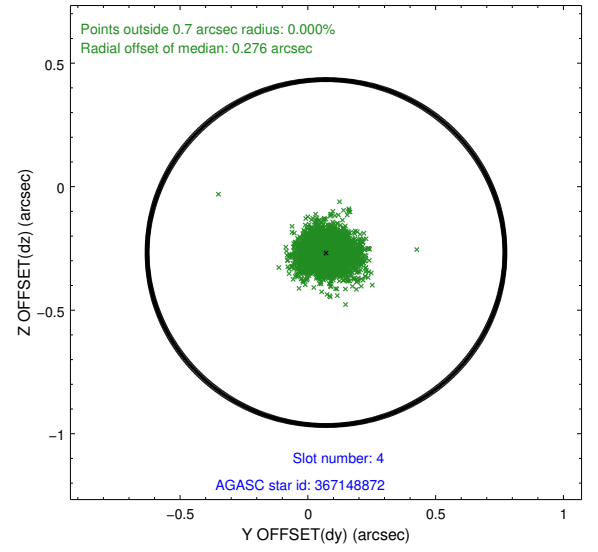
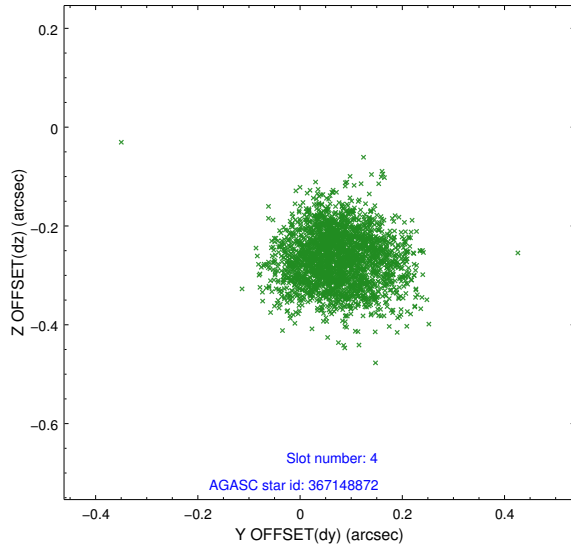
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.07	1267	0.060	-0.005	0.007	0.013	0.000000	0.000000	927.42	-841.06
1	FID		ACIS-I-5	7.07	1266	-0.195	0.074	0.007	0.012	0.000000	0.000000	-1820.29	1055.93
2	FID		ACIS-I-6	7.06	1267	0.043	0.001	0.007	0.013	0.000000	0.000000	391.68	1701.67
3	GUIDE	used	367146616	8.83	2489	-0.044	0.348	0.098	0.165	11.418645	41.190163	75.26	-1967.11
4	GUIDE	used	367148872	7.20	2533	0.071	-0.267	0.088	0.141	10.505940	40.688258	-2088.52	210.37
5	GUIDE	used	367663272	9.26	2531	-0.075	-0.368	0.107	0.172	10.656279	41.699429	1571.14	346.56
6	GUIDE	used	367674552	8.84	2531	-0.114	0.052	0.105	0.164	11.016238	41.570845	1261.31	-681.47
7	GUIDE	used	367138920	7.72	2532	0.152	0.245	0.073	0.122	11.513485	40.808909	-1239.63	-2439.78

2.4 Star Slots

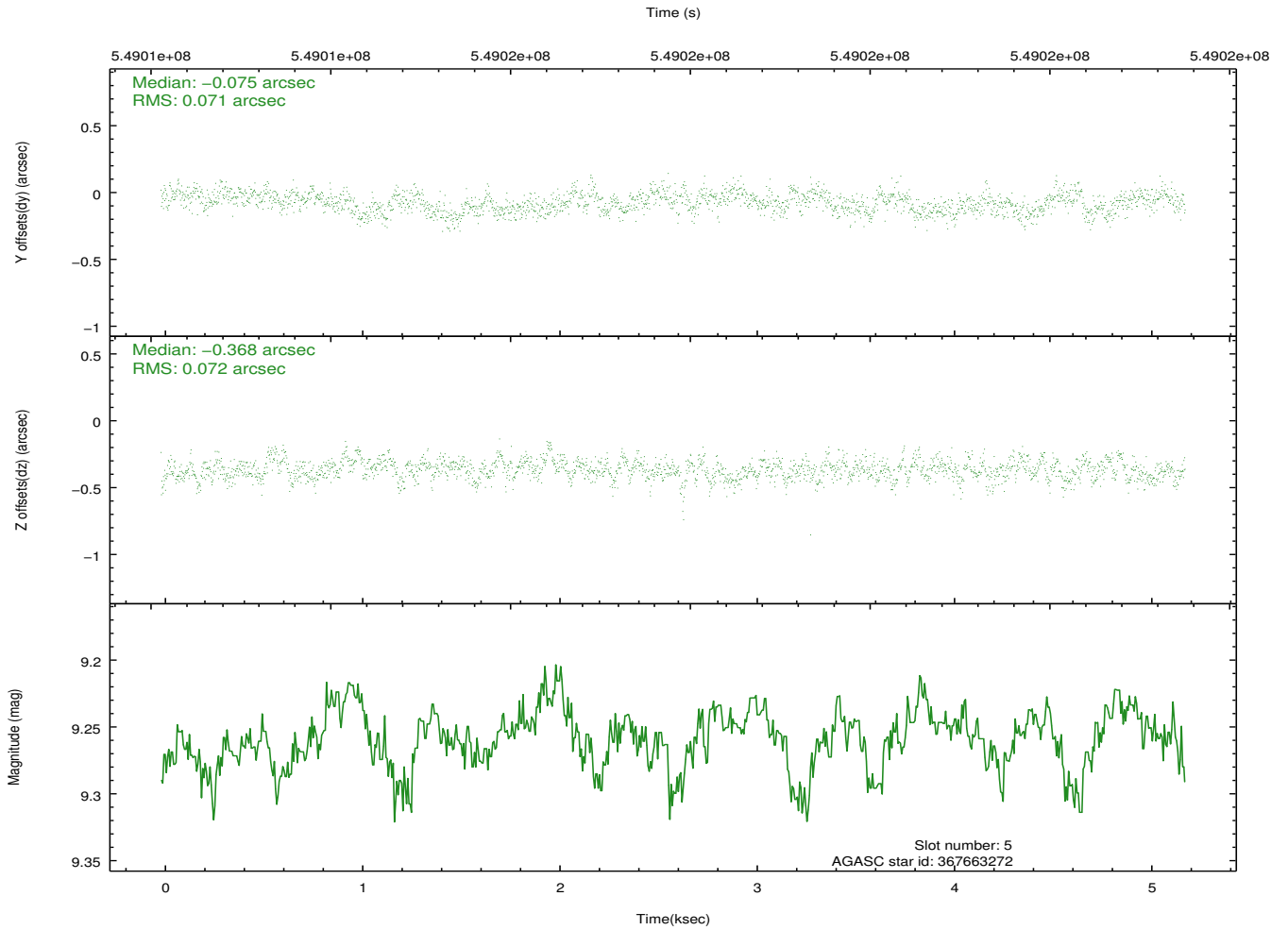
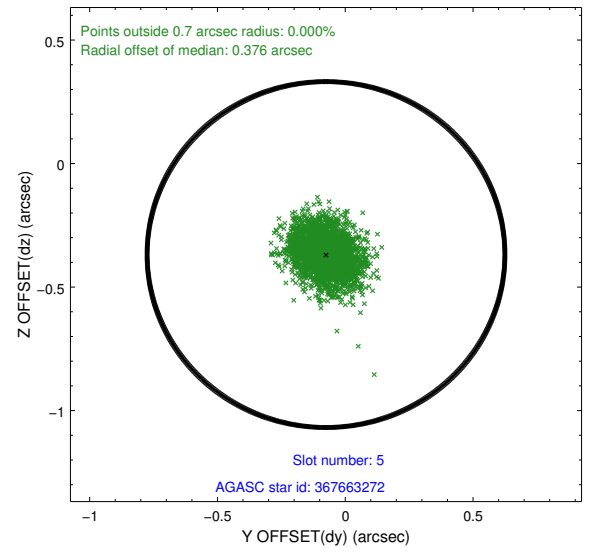
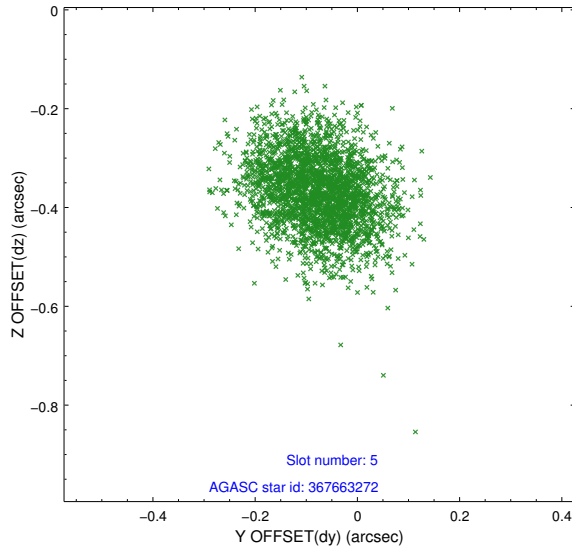
2.4.1 Slot 3



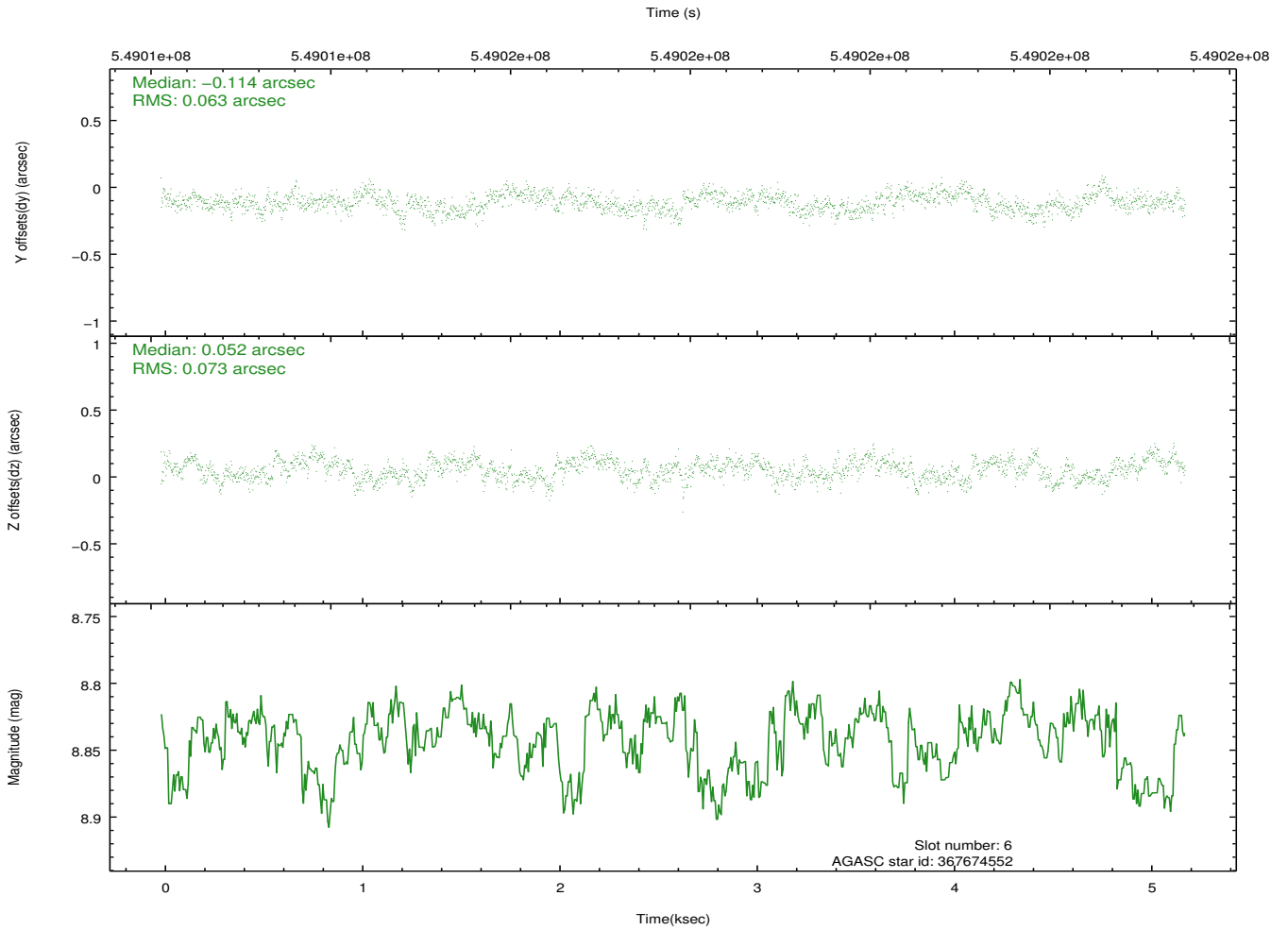
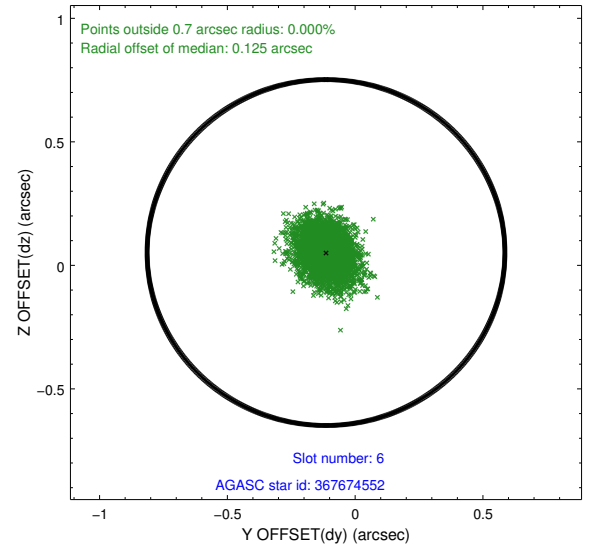
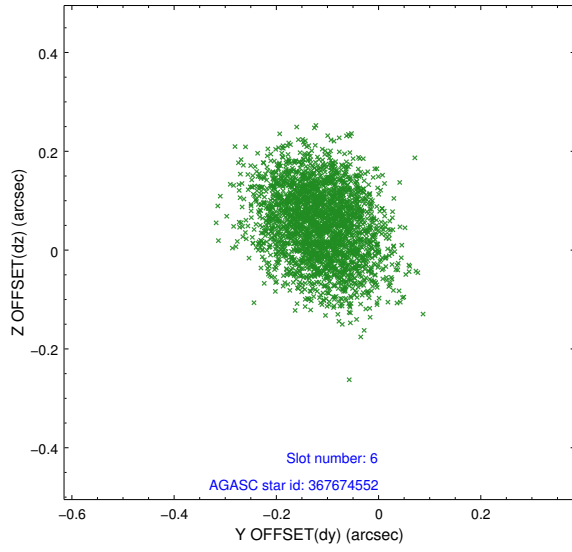
2.4.2 Slot 4



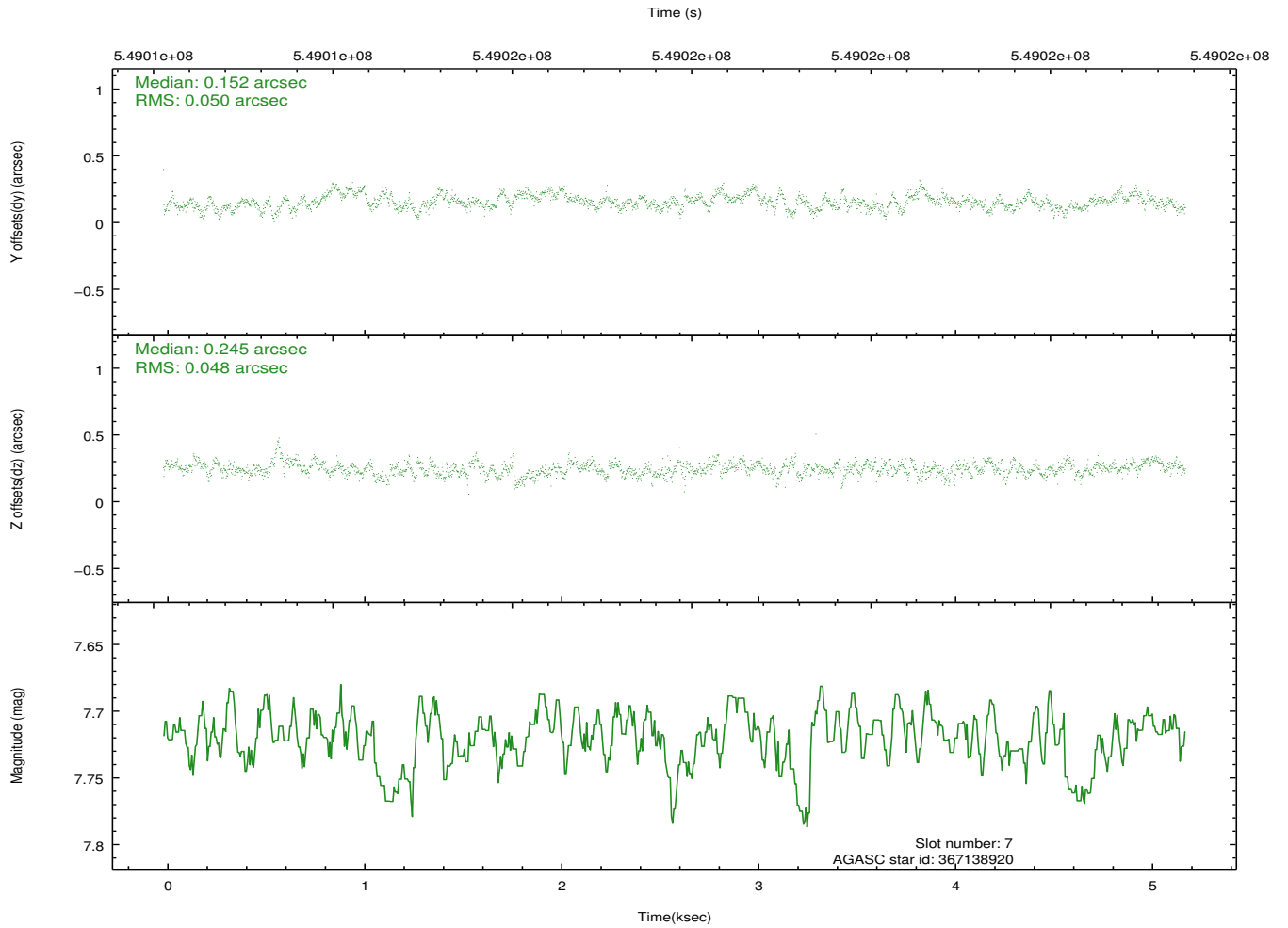
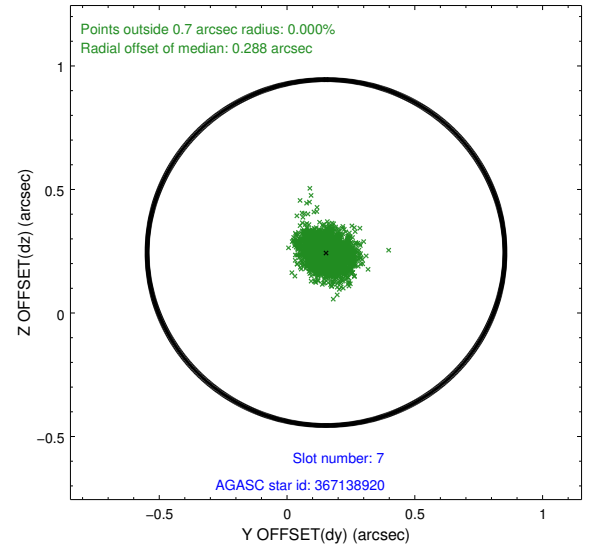
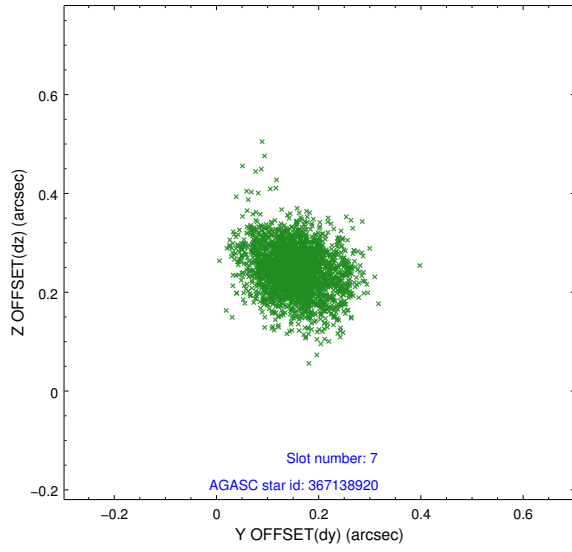
2.4.3 Slot 5



2.4.4 Slot 6

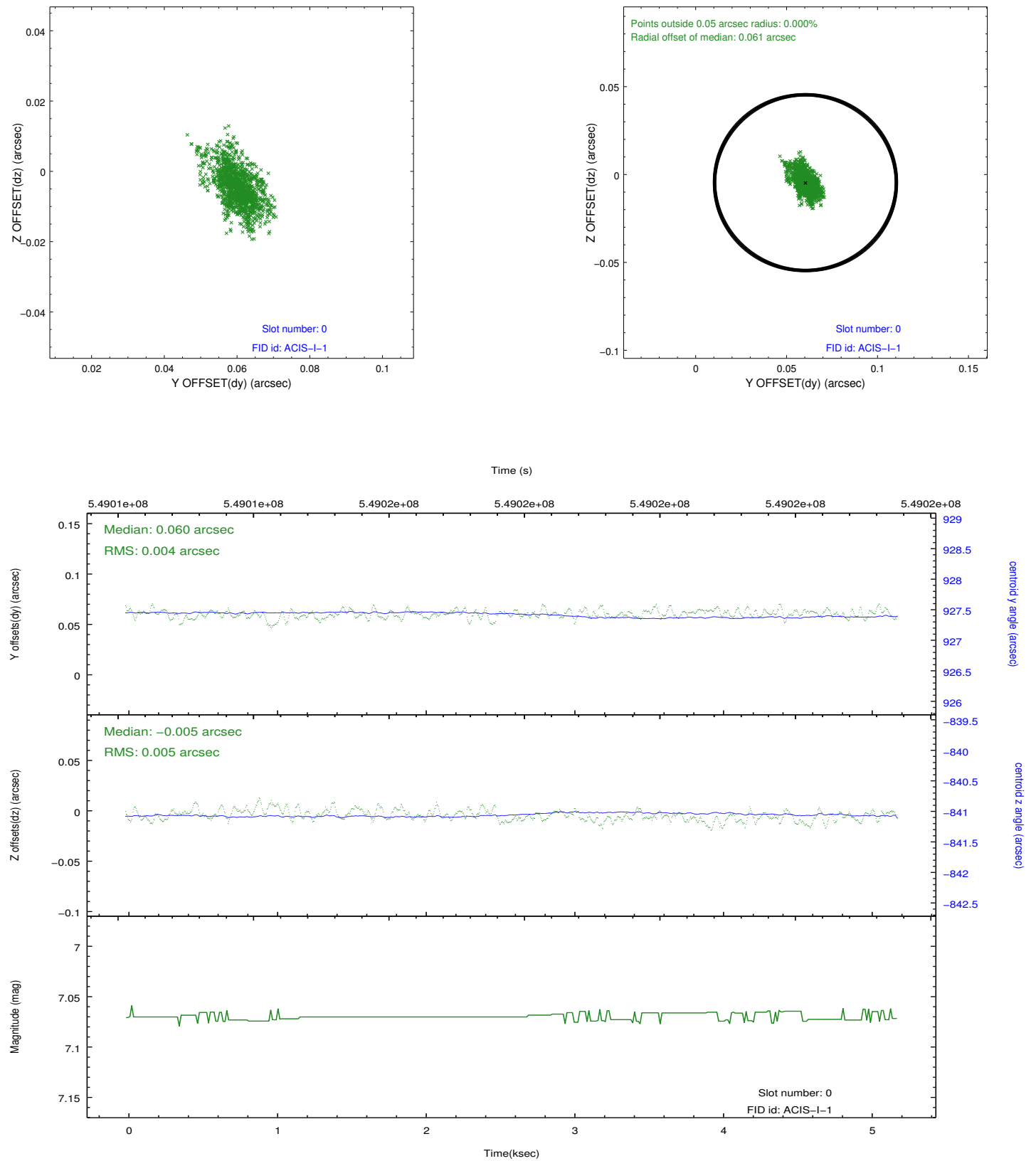


2.4.5 Slot 7

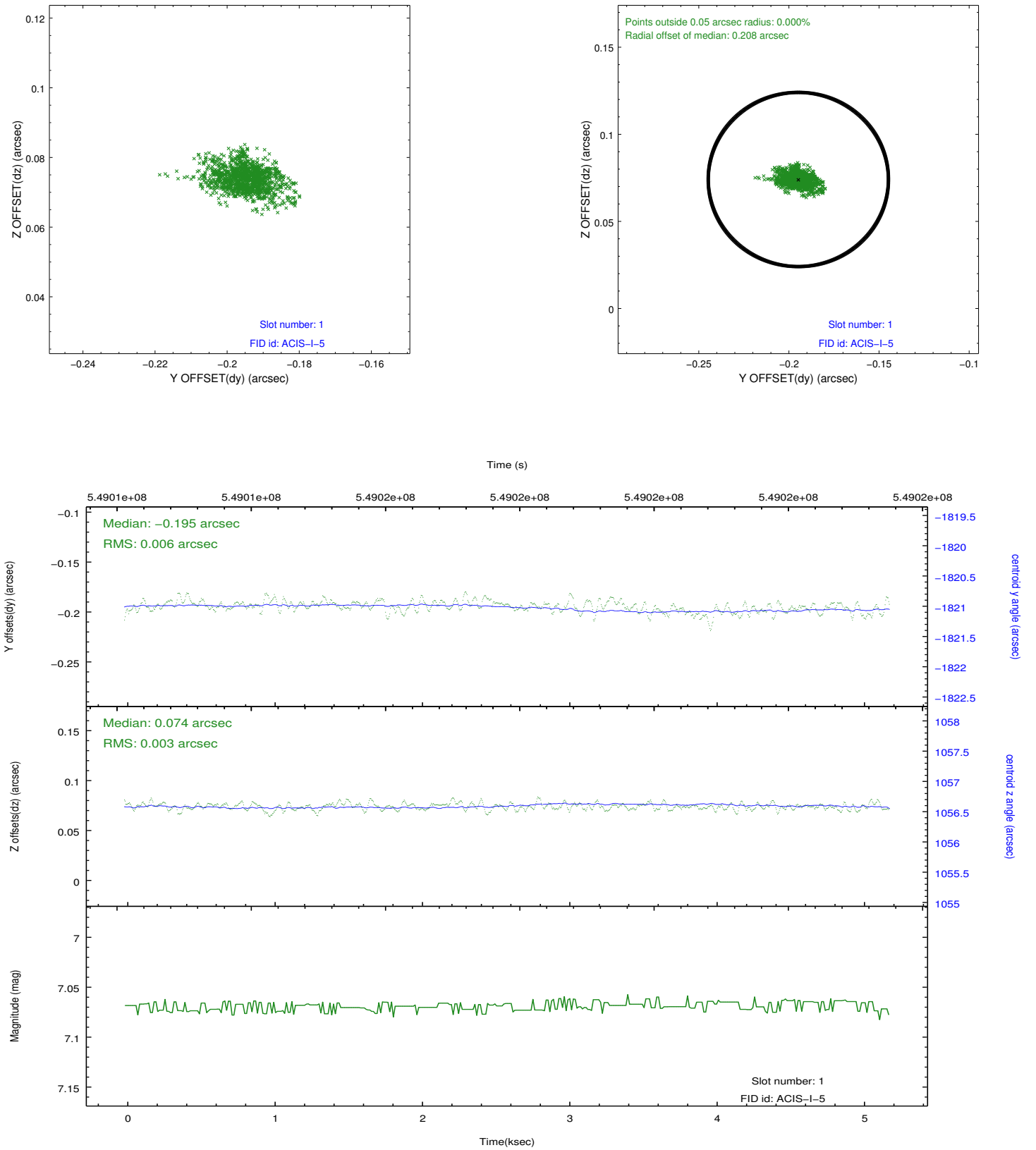


2.5 FID Slots

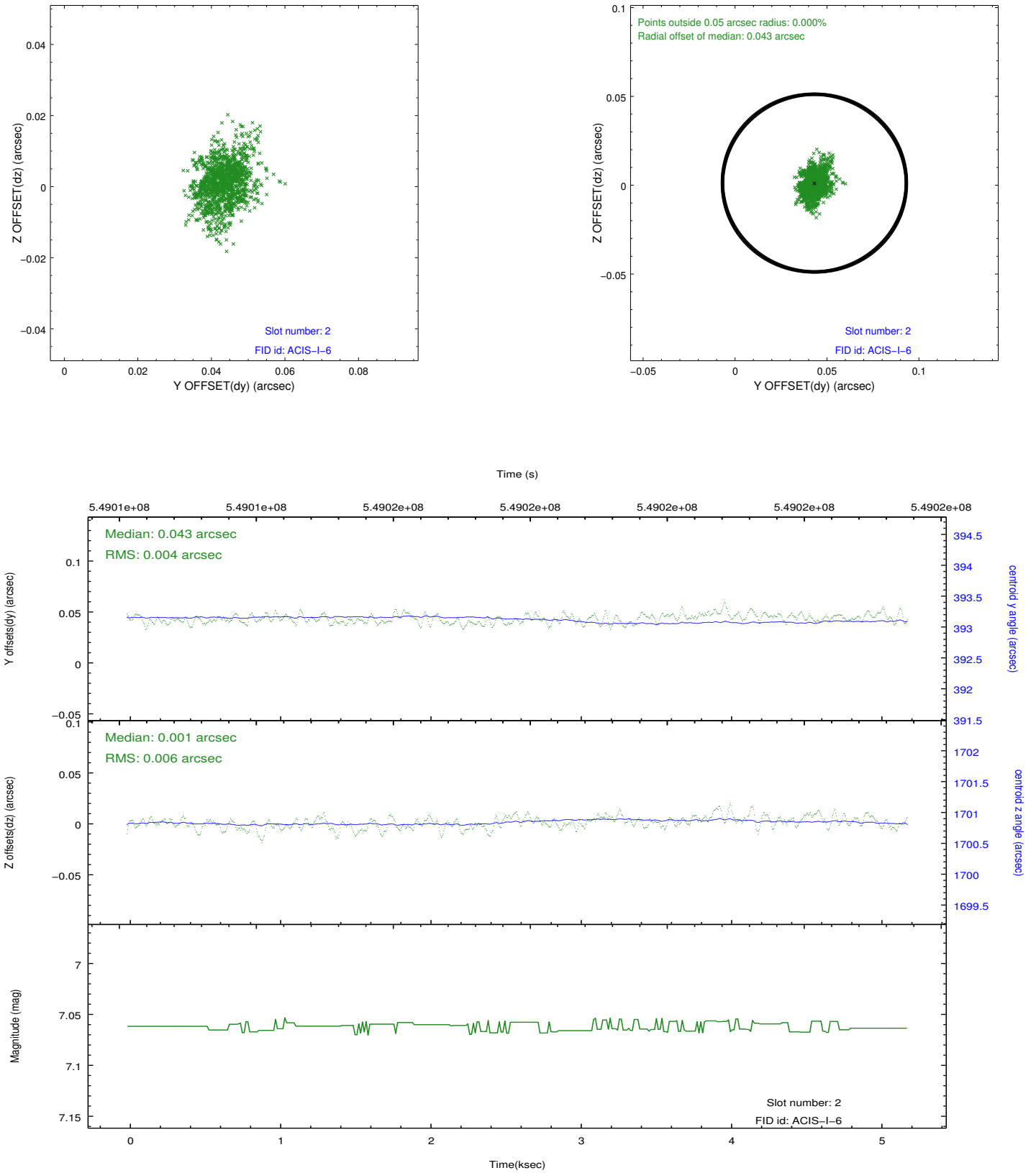
2.5.1 Slot 0



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)	2015.05.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0530000389814

A.2 Comments