

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 308 - L2 Version 4
Chandra X-Ray Center

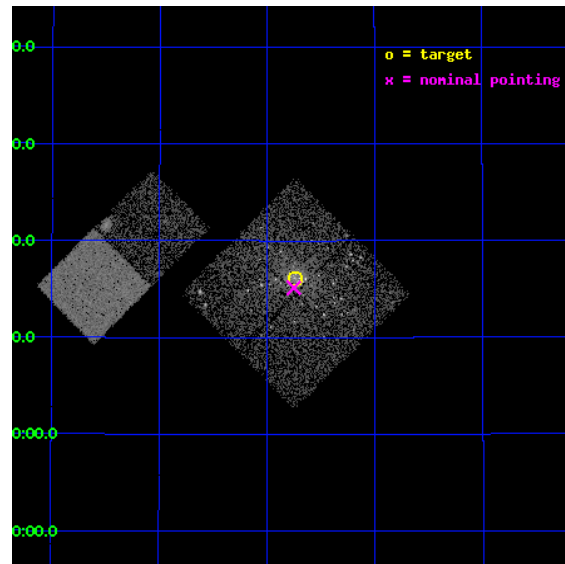
L2 Processing Date : Aug 22 2012

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

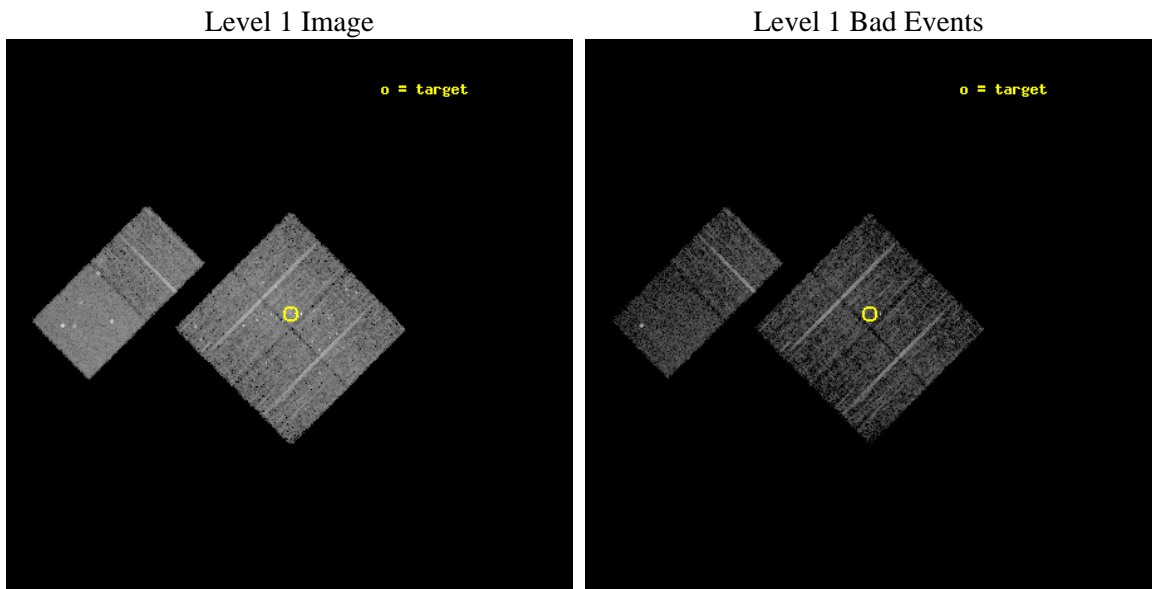
seq_num	600068	Sequence number
obs_id	308	Observation id
title	M31 MONITORING (FOLLOWUP)	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31 TRANSIENT TBD	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.687630467333	Nominal RA [deg]
dec_nom	41.252436071672	Nominal Dec [deg]
roll_nom	315.02976662511	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4060.8000037819	Sum of GTIs [s]
livetime	4009.3797090138	Livetime [s]
ontime0	4060.8000037819	Sum of GTIs [s]
ontime1	4060.8000037819	Sum of GTIs [s]
ontime2	4060.8000037819	Sum of GTIs [s]
ontime3	4060.8000037819	Sum of GTIs [s]
ontime5	4060.8000037819	Sum of GTIs [s]
ontime6	4060.8000037819	Sum of GTIs [s]
l2events	43675	Number of level 2 events



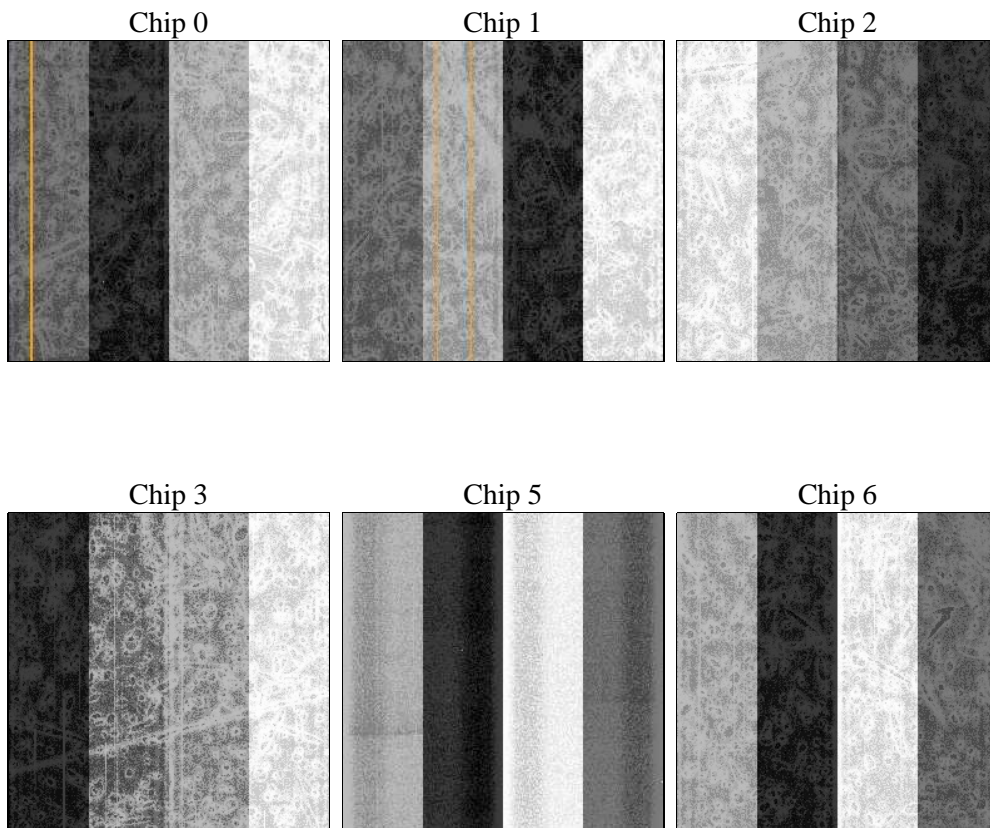
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4060.8000037819	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime0	4060.8000037819	Sum of GTIs [s]
date	2012-08-22T19:12:31	Date and time of file creation	ontime1	4060.8000037819	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	4060.8000037819	Sum of GTIs [s]
			ontime3	4060.8000037819	Sum of GTIs [s]
			ontime5	4060.8000037819	Sum of GTIs [s]
			ontime6	4060.8000037819	Sum of GTIs [s]
			l1events	206342	Number of level 1 events

2.1.4 Events

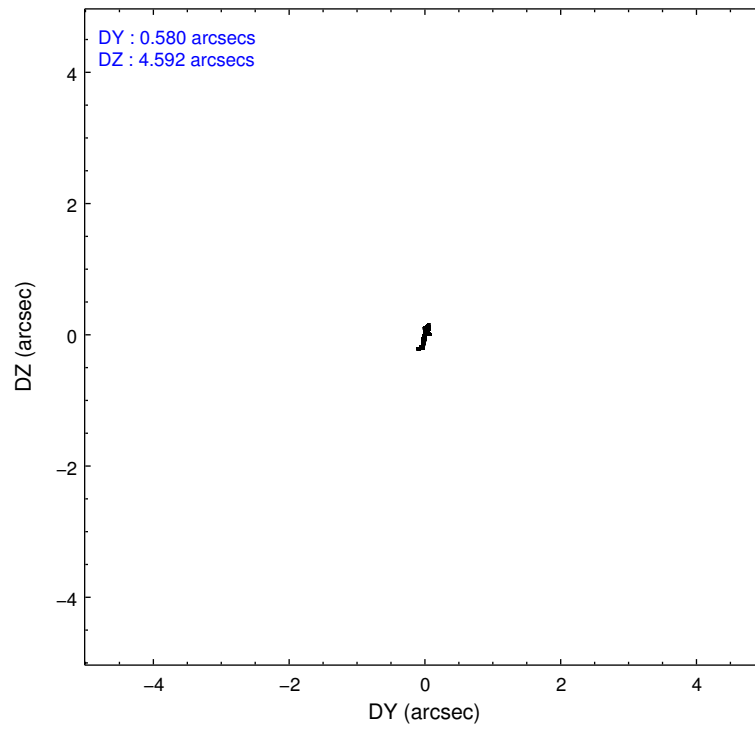
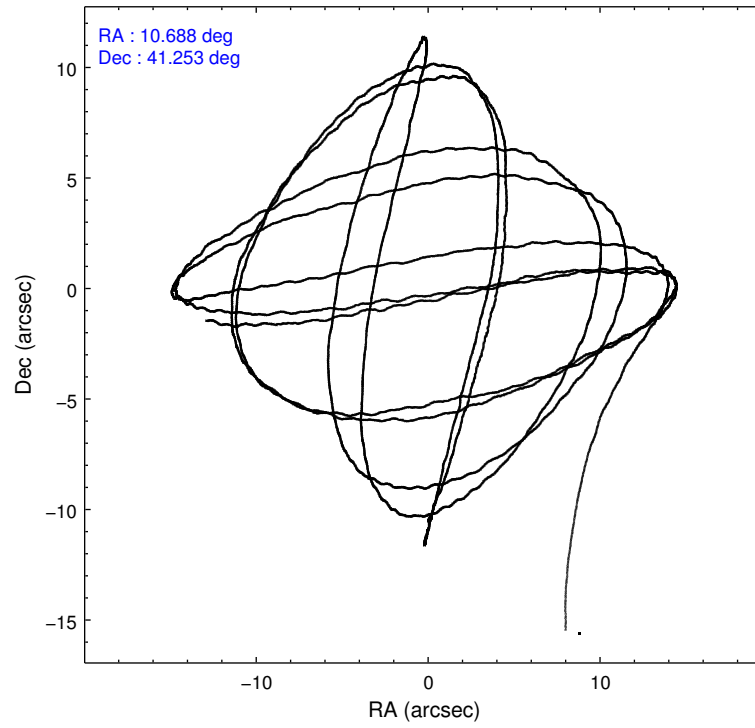
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 6
level 1 events	28417	32581	35300	37125	40512	32407	grade 0 events	2115	4236	3982	6021	2549	1655
rejected events	24405	25738	28979	28113	21277	28808		7%	13%	11%	16%	6%	5%
rejected %	85%	78%	82%	75%	52%	88%	grade 1 events	24	31	43	198	68	14
								0%	0%	0%	0%	0%	0%
							grade 2 events	724	986	958	1269	5858	637
								2%	3%	2%	3%	14%	1%
							grade 3 events	344	492	391	461	834	352
								1%	1%	1%	1%	2%	1%
							grade 4 events	303	468	416	499	848	314
								1%	1%	1%	1%	2%	0%
							grade 5 events	967	981	943	1149	3075	1073
								3%	3%	2%	3%	7%	3%
							grade 6 events	532	674	582	773	9185	647
								1%	2%	1%	2%	22%	1%
							grade 7 events	23408	24713	27985	26755	18095	27715
								82%	75%	79%	72%	44%	85%

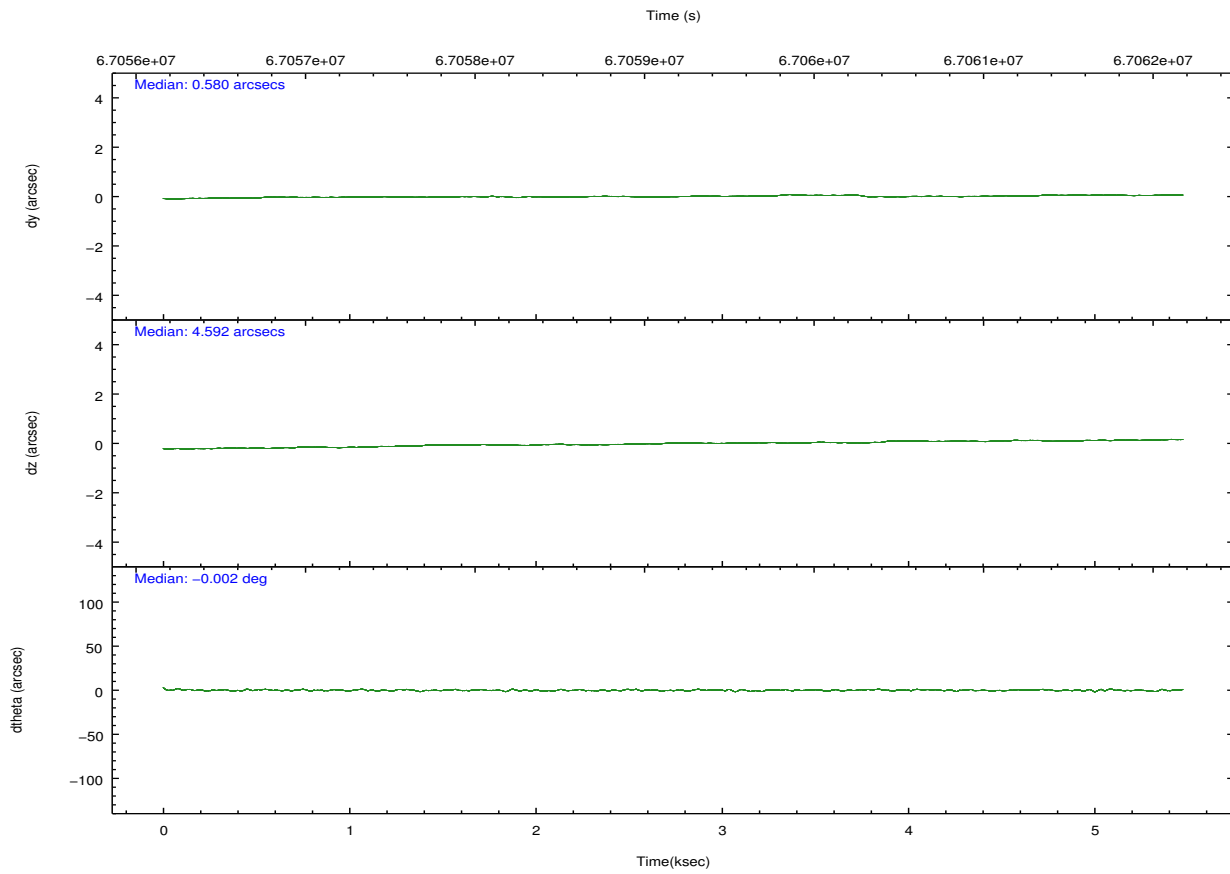
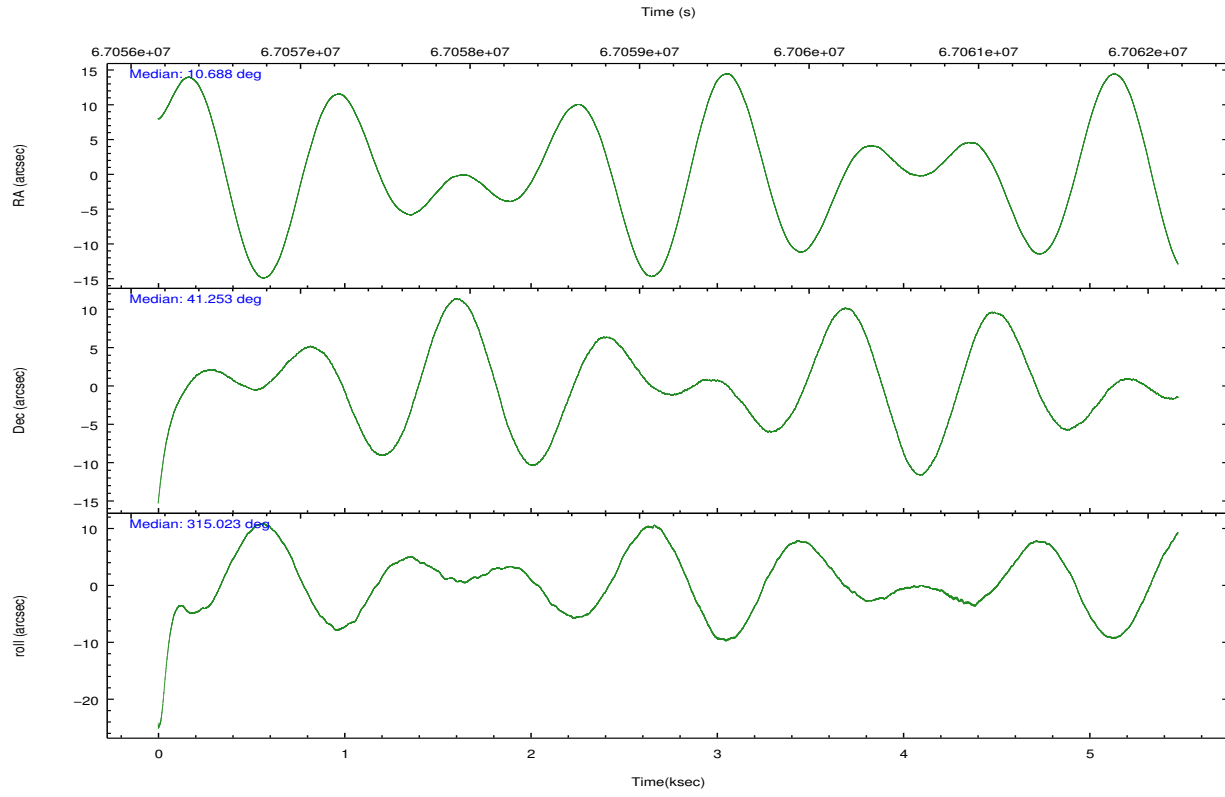
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012356	ACIS-012356
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	10.652043	10.68763046733289
[deg] Pointing Dec	41.259852	41.25243607167194
[deg] Pointing Roll	314.844611	315.0297666251116
[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)	67056904.184000	67055790.730238
Observation start date	2000-02-16T02:54:00	2000-02-16T02:36:30
[s] Observation end time (MET)	67061904.184000	67062111.905468
Observation end date	2000-02-16T04:17:20	2000-02-16T04:21:51
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	3.2

2.3 Aspect



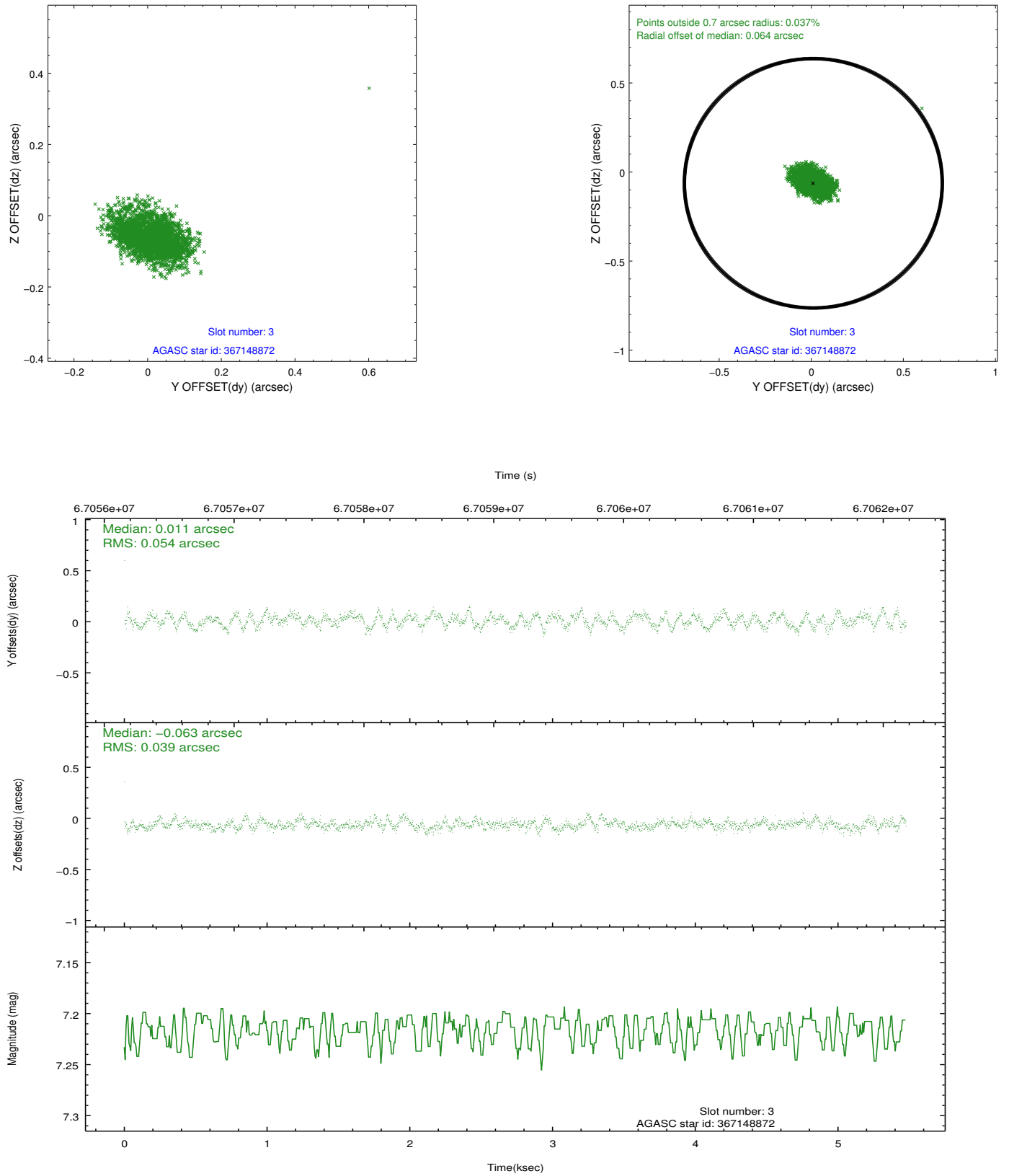


Slot Statistics

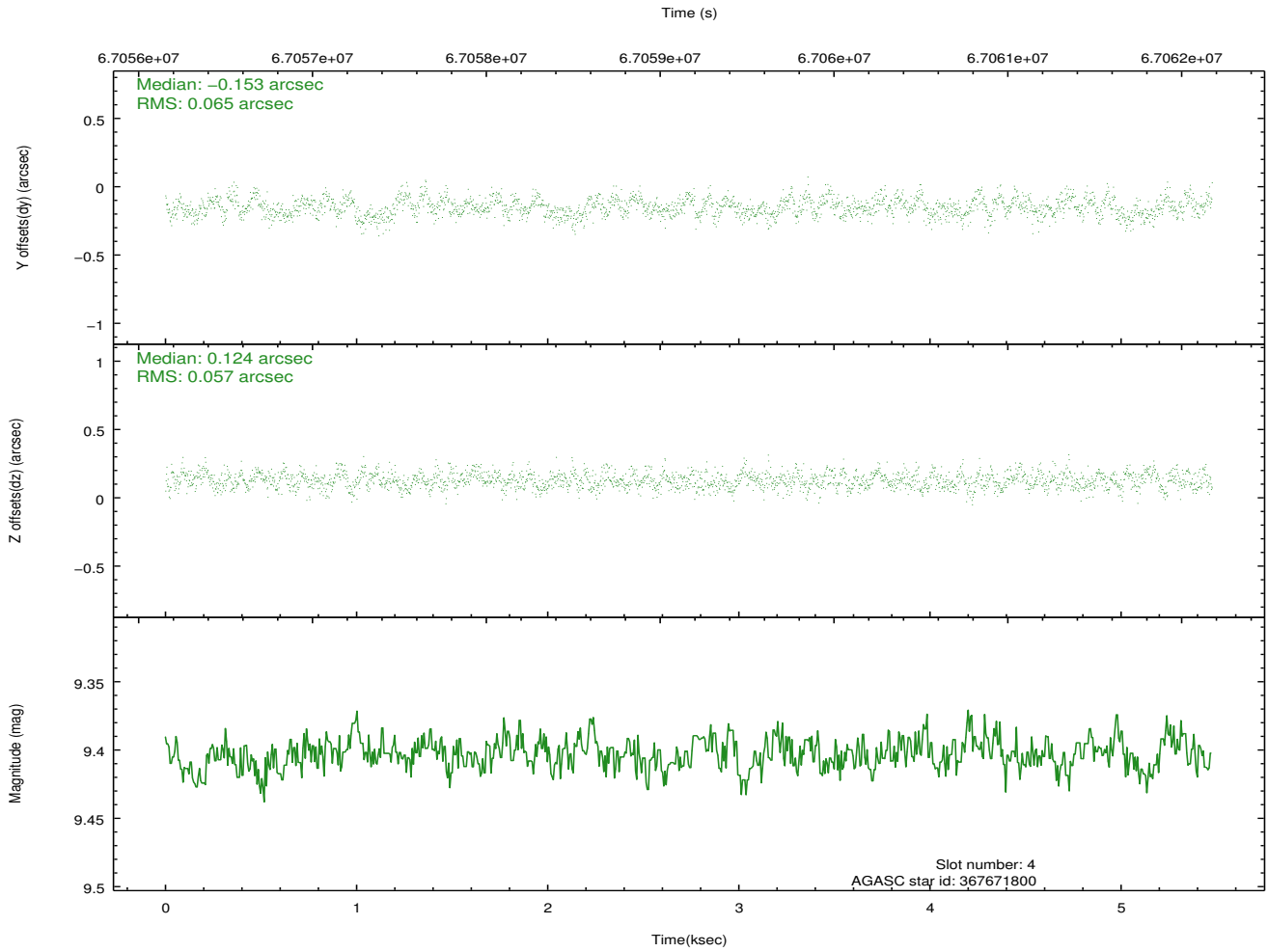
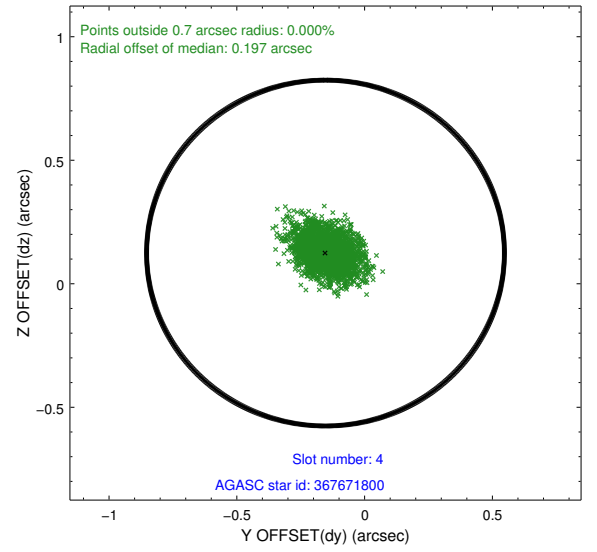
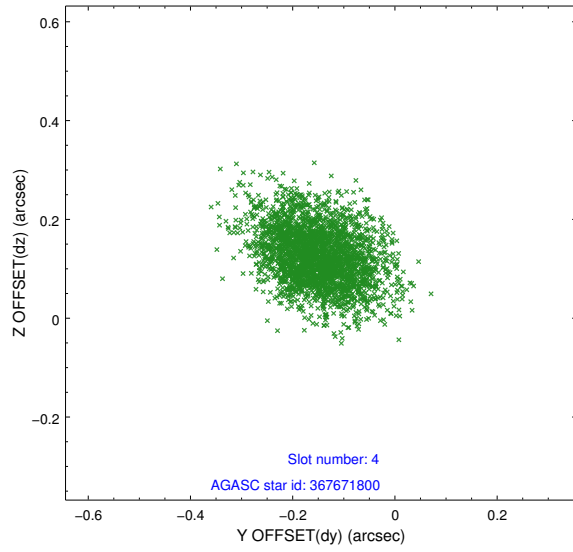
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1335	-0.033	-0.017	0.008	0.015	0.000000	0.000000	-754.93	-834.28
1	FID	ACIS-I-4	7.19	1335	-0.024	0.032	0.008	0.015	0.000000	0.000000	2158.65	1071.38
2	FID	ACIS-I-5	7.23	1336	-0.045	0.054	0.009	0.016	0.000000	0.000000	-1807.35	1070.52
3	GUIDE	367148872	7.22	2671	0.011	-0.063	0.070	0.113	10.505940	40.688258	1177.76	-1733.99
4	GUIDE	367671800	9.40	2672	-0.153	0.124	0.091	0.152	10.554735	41.964935	-1983.40	1604.30
5	GUIDE	367674552	8.85	2672	-0.050	0.110	0.069	0.118	11.016238	41.570845	-104.48	1486.73
6	GUIDE	367145856	9.30	2672	0.250	-0.196	0.110	0.181	10.744946	40.402085	2369.48	-1996.77
7	GUIDE	367665472	9.47	2670	-0.055	0.023	0.076	0.127	10.241611	41.730843	-1980.83	414.38

2.4 Star Slots

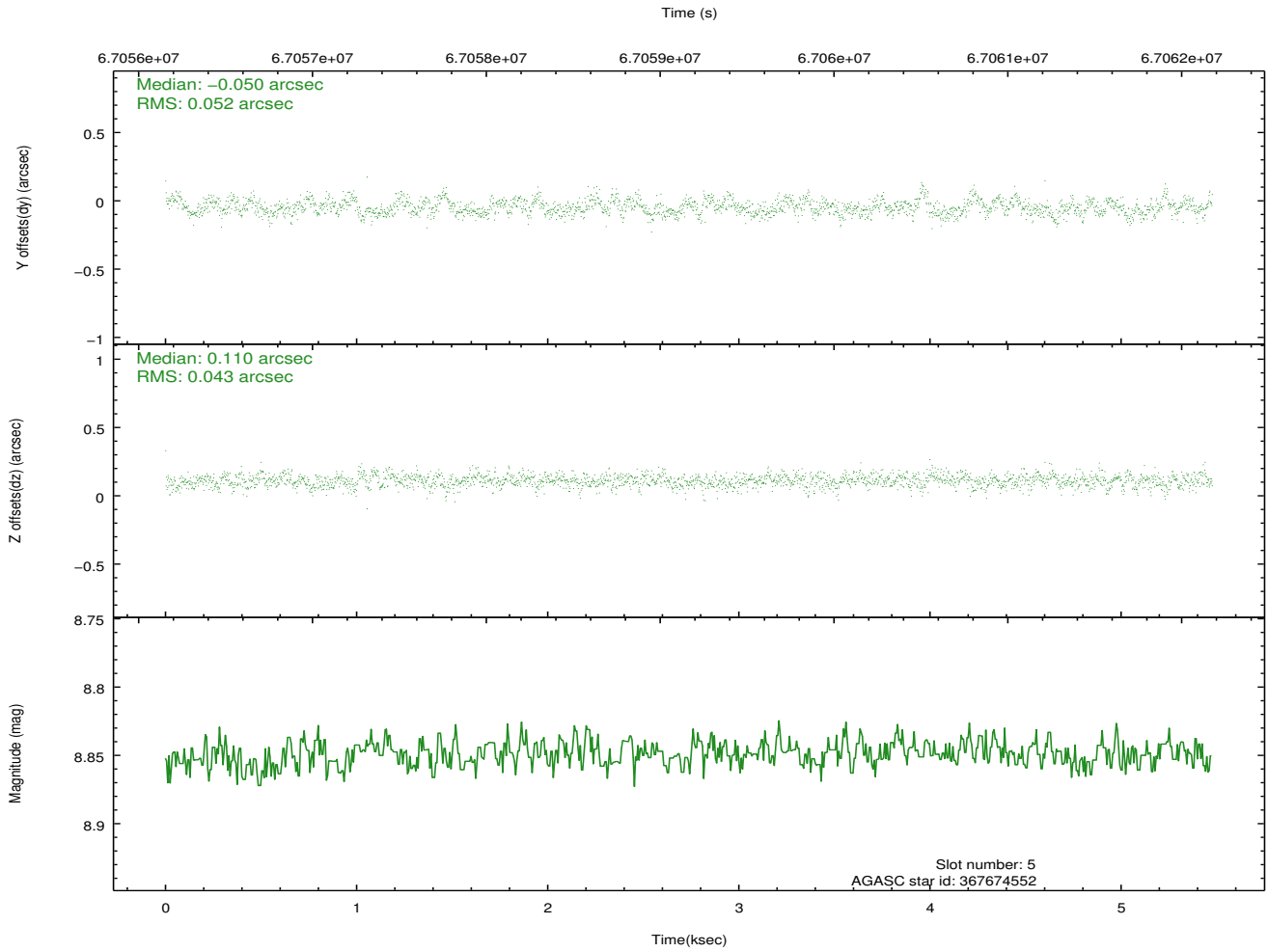
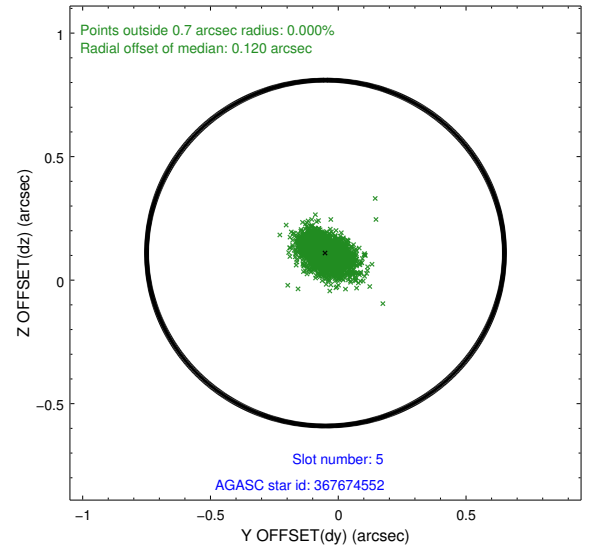
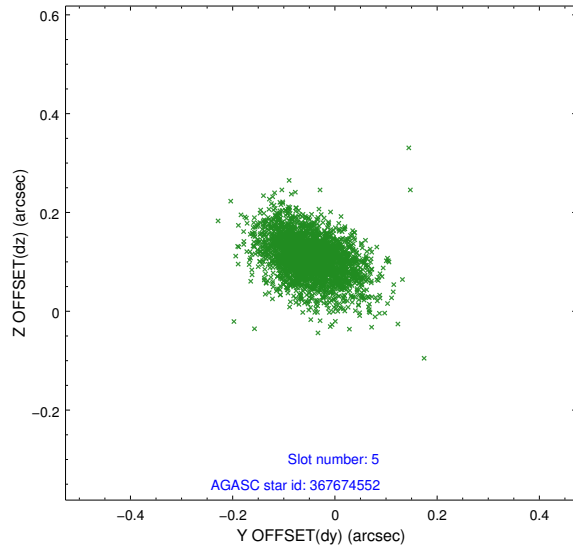
2.4.1 Slot 3



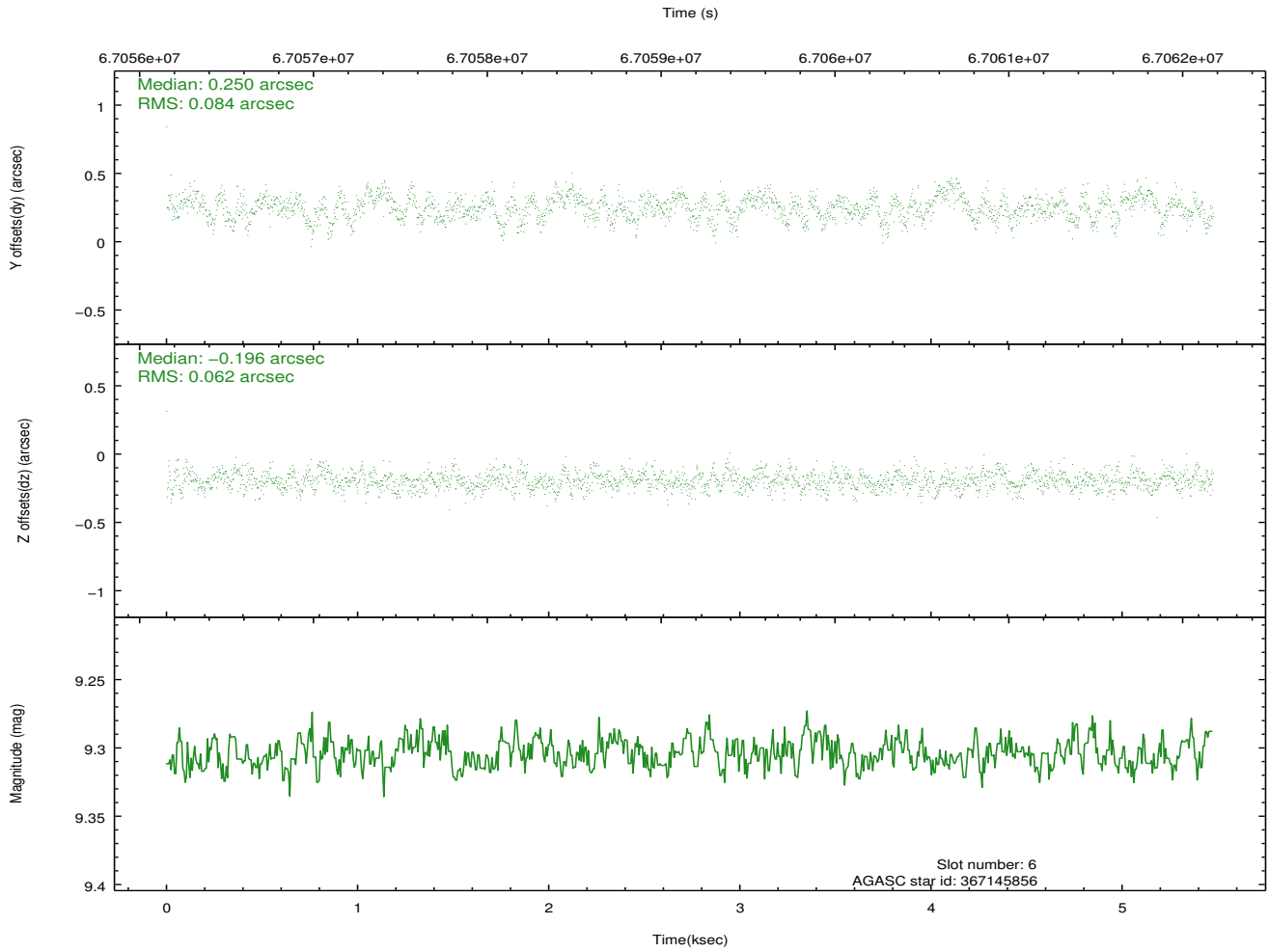
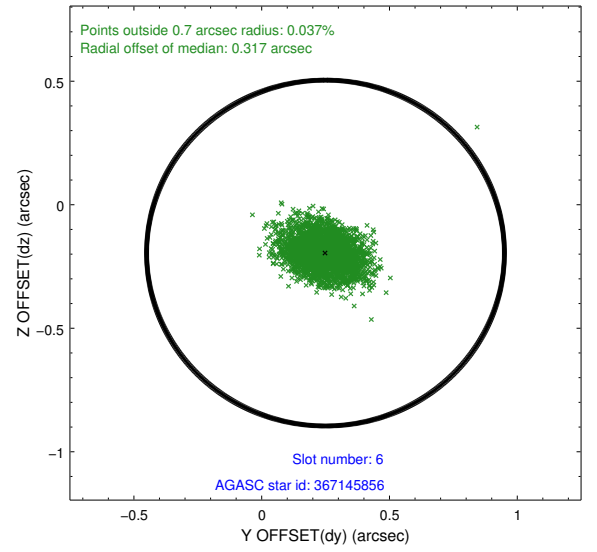
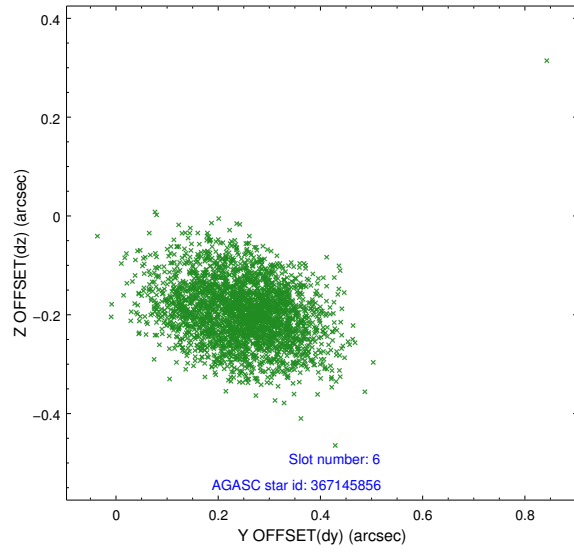
2.4.2 Slot 4



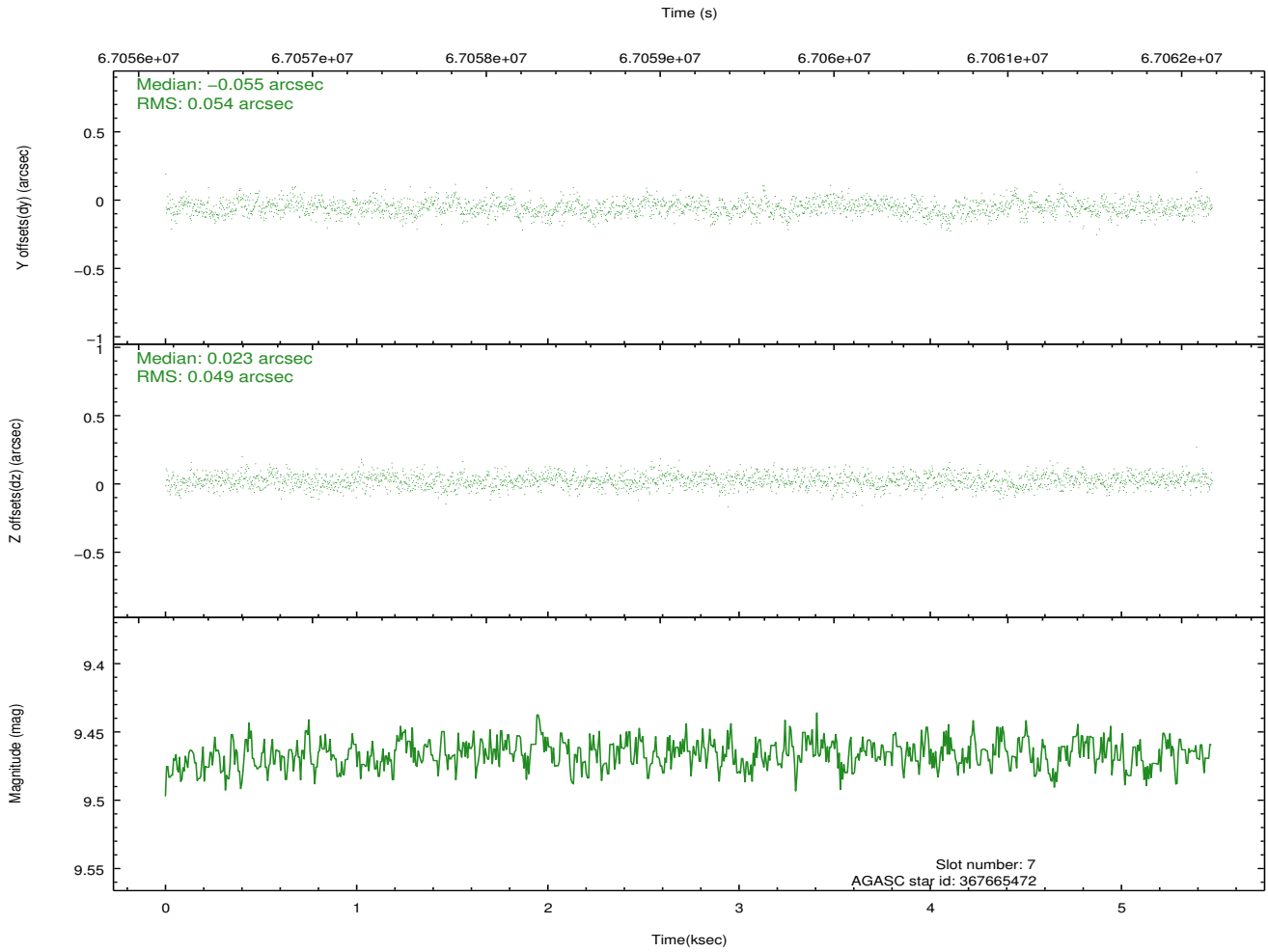
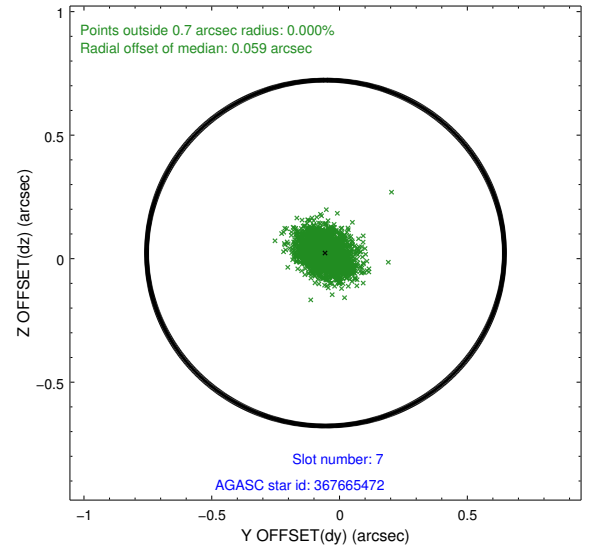
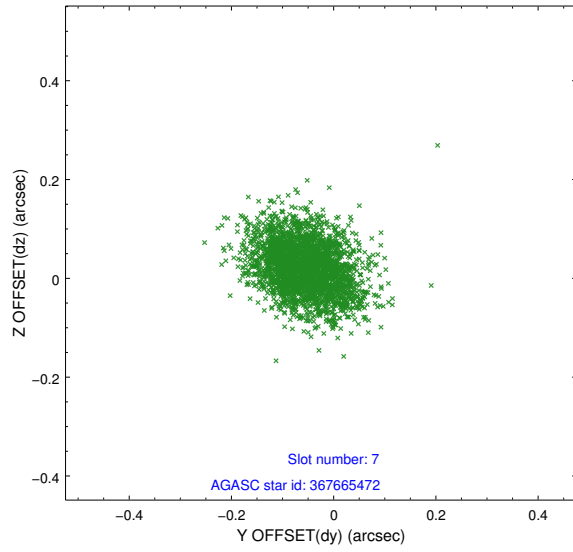
2.4.3 Slot 5



2.4.4 Slot 6

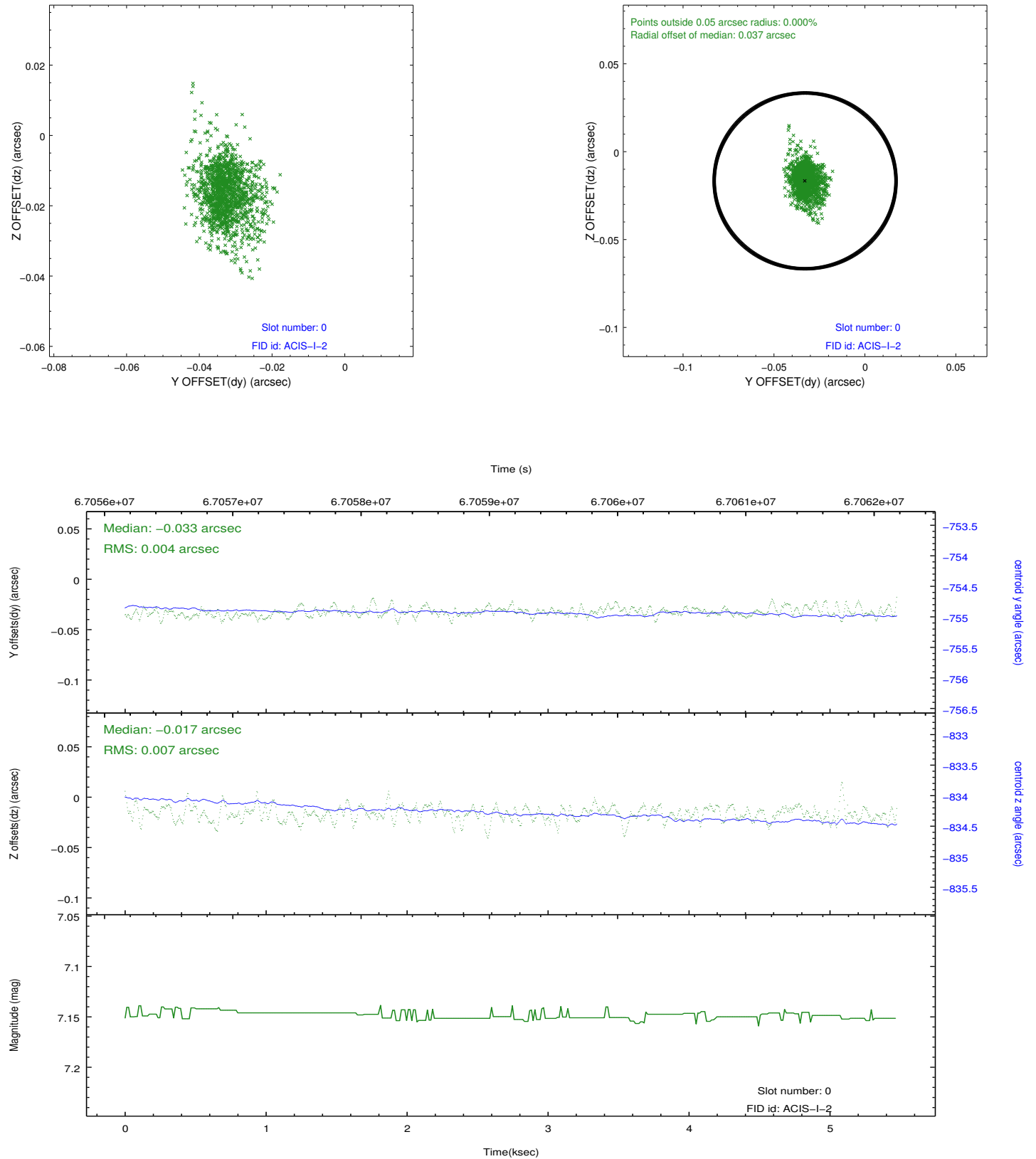


2.4.5 Slot 7

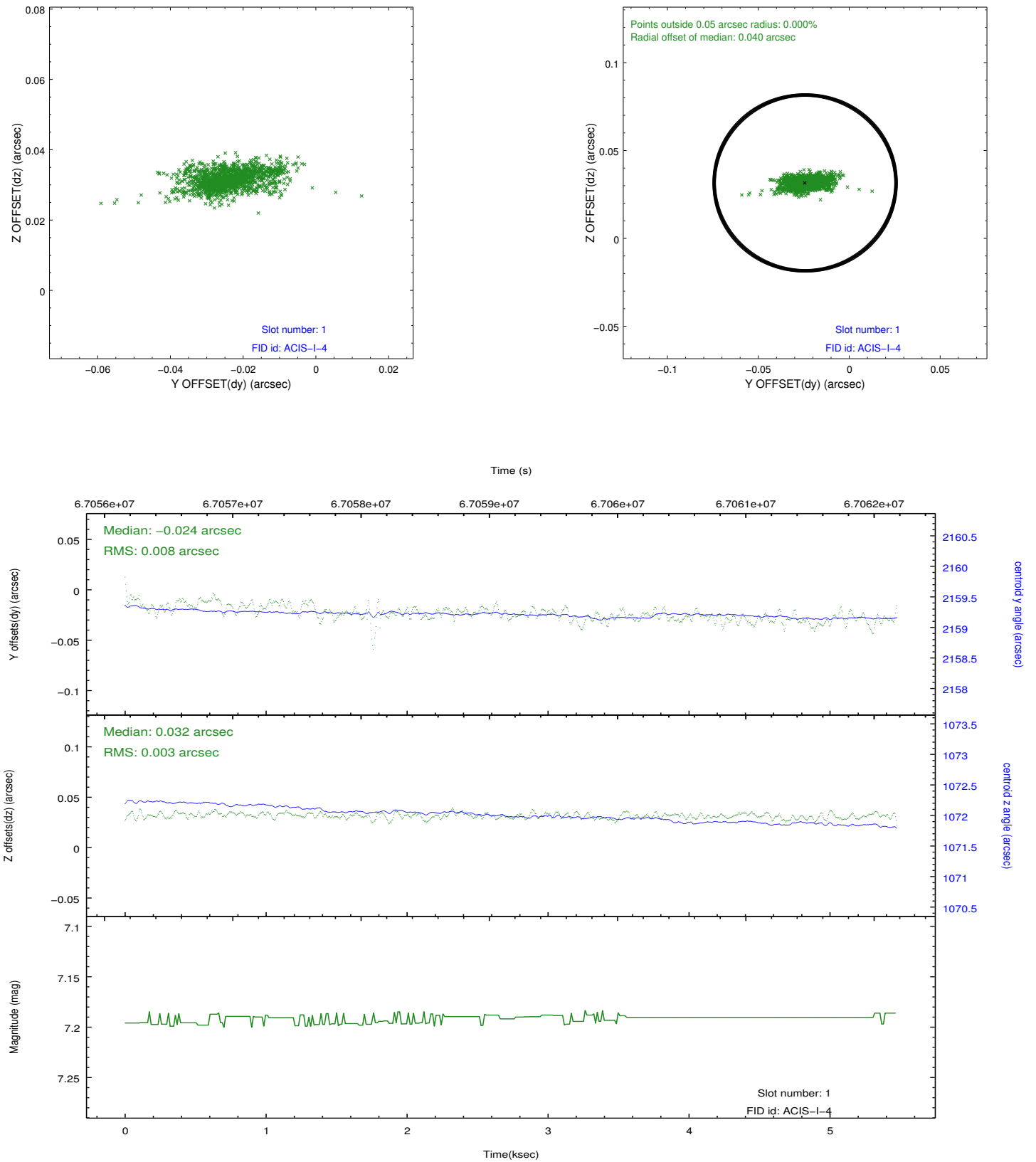


2.5 FID Slots

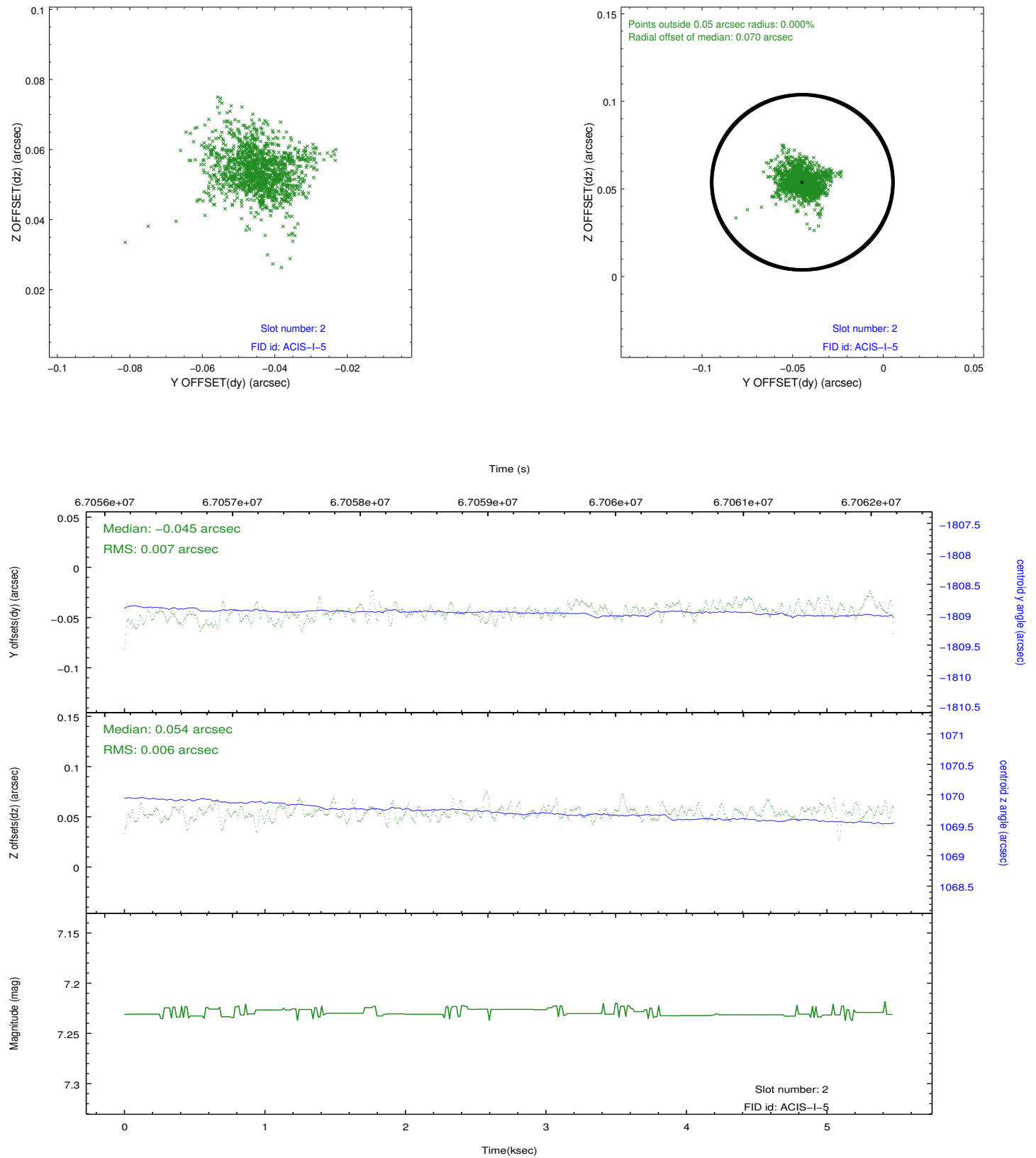
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.064

A.2 Comments