

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17444 - L2 Version 1
Chandra X-Ray Center

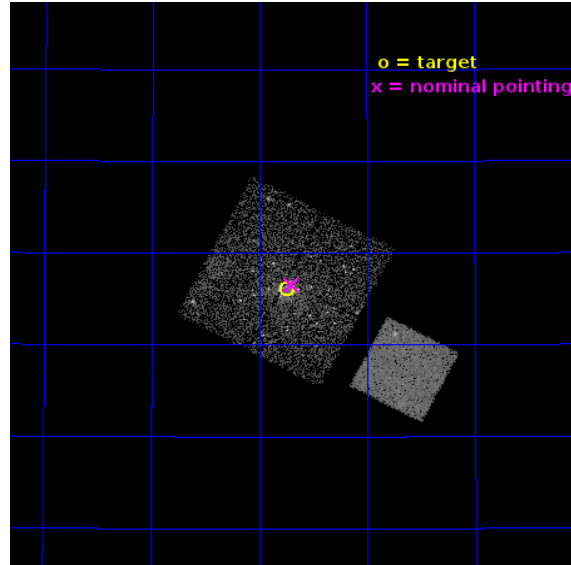
L2 Processing Date : Jul 20 2015

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1 Front

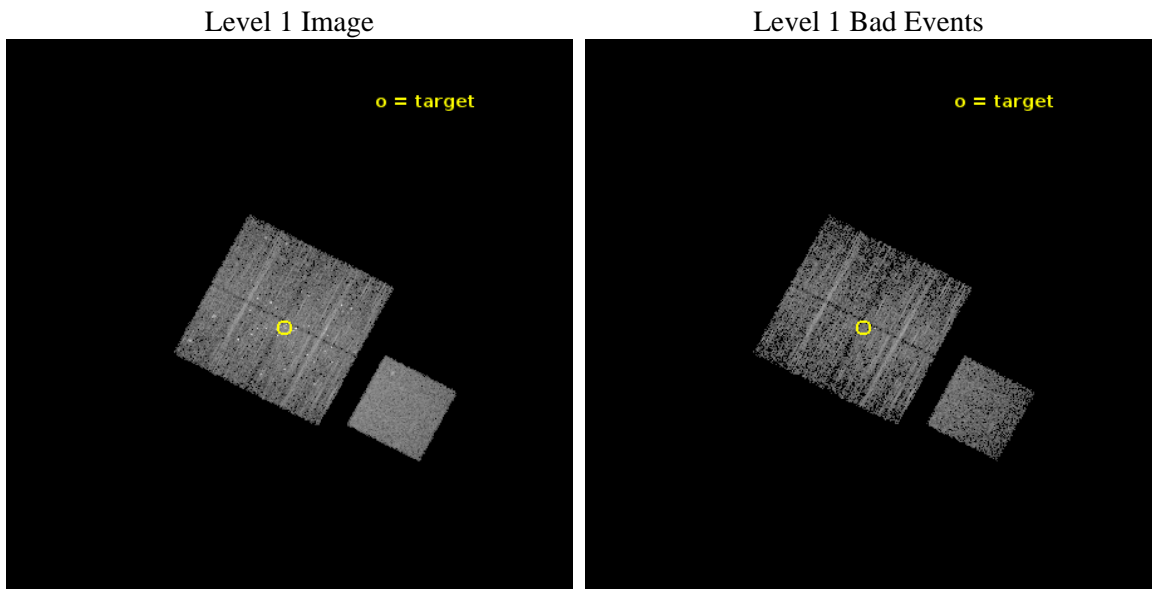
seq_num	401677	Sequence number
obs_id	17444	Observation id
title	Monitoring the central region of M31 for X-ray transients	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	M31 bulge	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.269028	Observer's specified target Dec [deg]
ra_nom	10.675354251281	Nominal RA [deg]
dec_nom	41.275859928202	Nominal Dec [deg]
roll_nom	117.72913807845	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5045.6024616957	Sum of GTIs [s]
livetime	4979.6779510151	Livetime [s]
ontime0	5045.4793416262	Sum of GTIs [s]
ontime1	5042.3794014454	Sum of GTIs [s]
ontime2	5045.5614216328	Sum of GTIs [s]
ontime3	5045.6024616957	Sum of GTIs [s]
ontime7	5045.6435016394	Sum of GTIs [s]
l2events	36162	Number of level 2 events



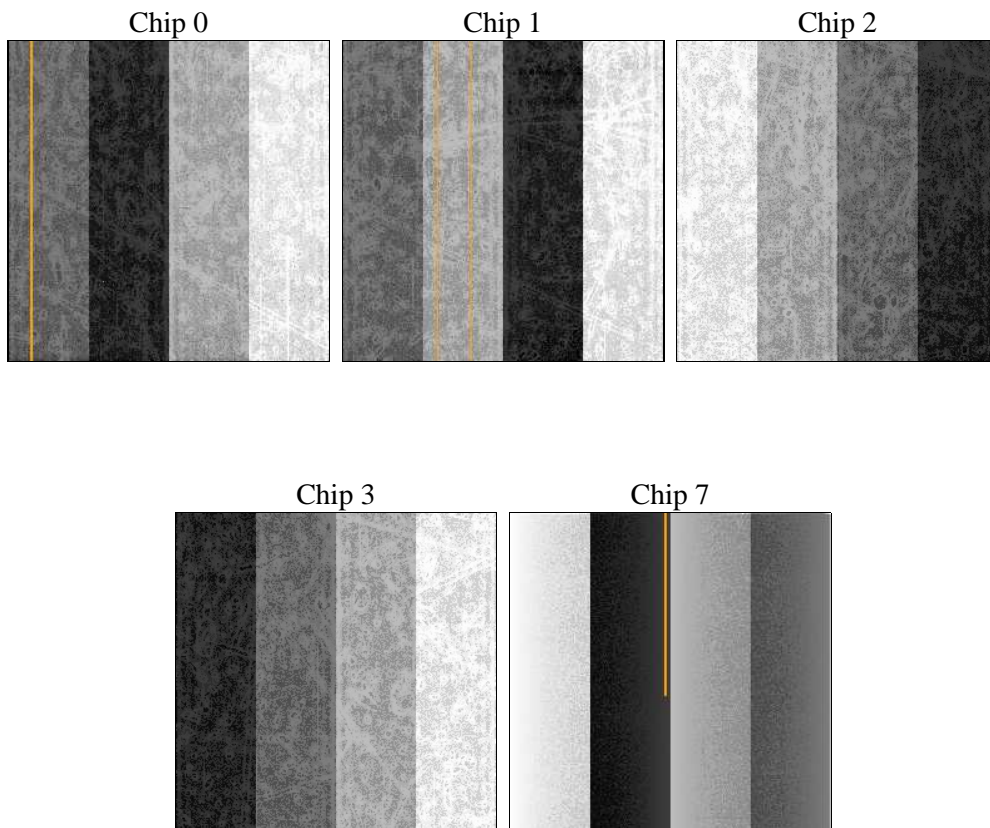
2 OBI

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	10.4.1	Processing system revision	ontime	5045.6024616957	Sum of GTIs [s]
caldsver	4.6.8	 	ontime0	5045.4793416262	Sum of GTIs [s]
date	2015-07-20T22:34:26	Date and time of file creation	ontime1	5042.3794014454	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5045.5614216328	Sum of GTIs [s]
			ontime3	5045.6024616957	Sum of GTIs [s]
			ontime7	5045.6435016394	Sum of GTIs [s]
			l1events	147474	Number of level 1 events

2.1.4 Events

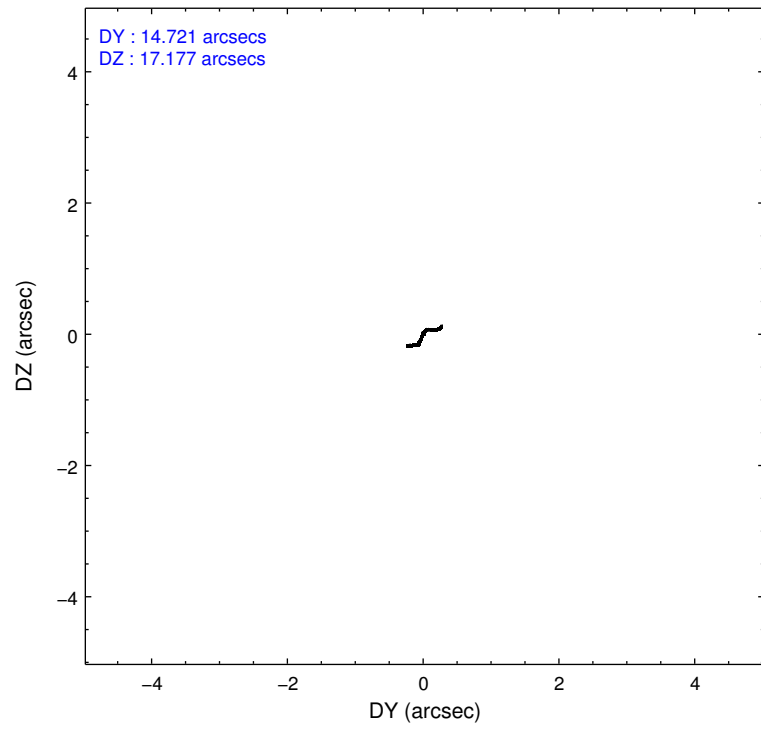
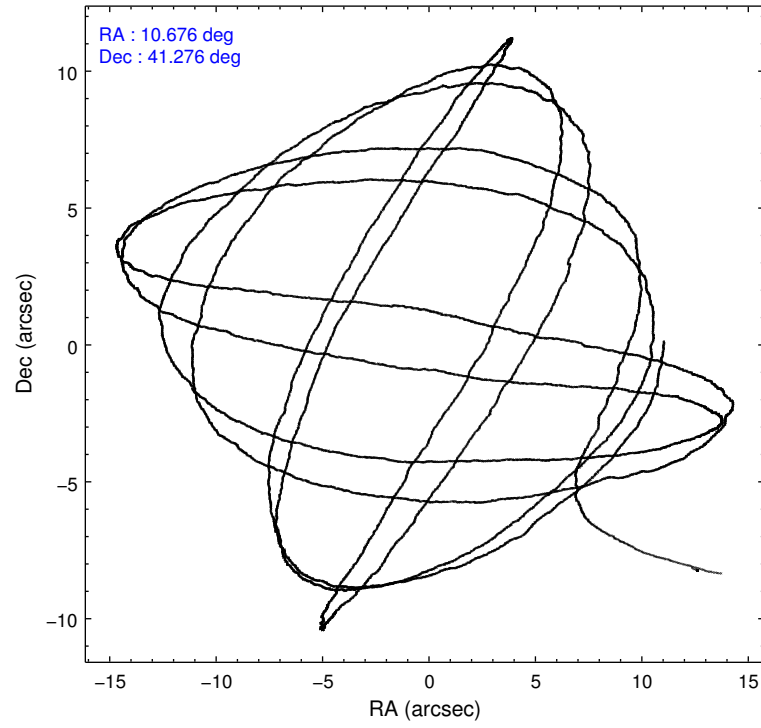
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	24345	27267	28612	32117	35133
rejected events	19931	20974	23533	23866	19842
rejected %	81%	76%	82%	74%	56%

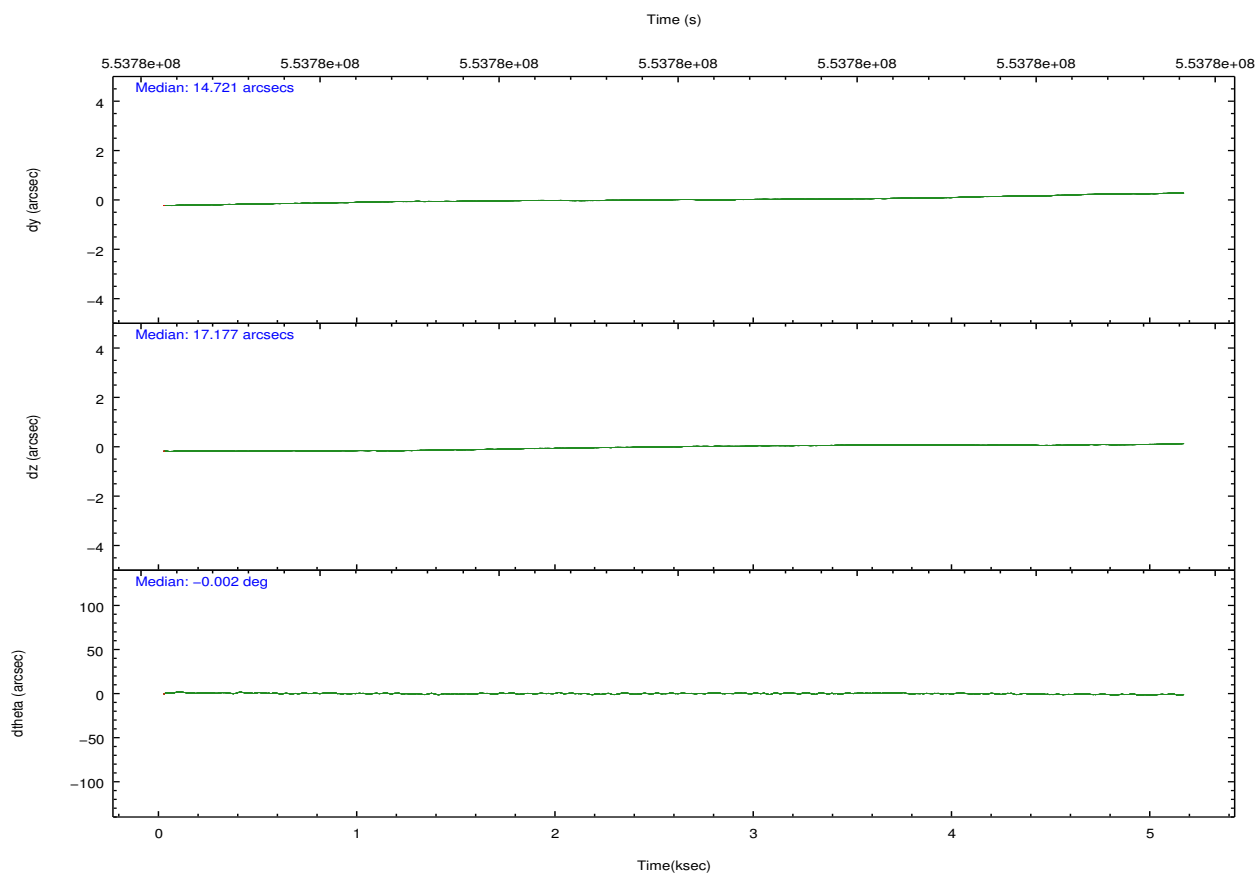
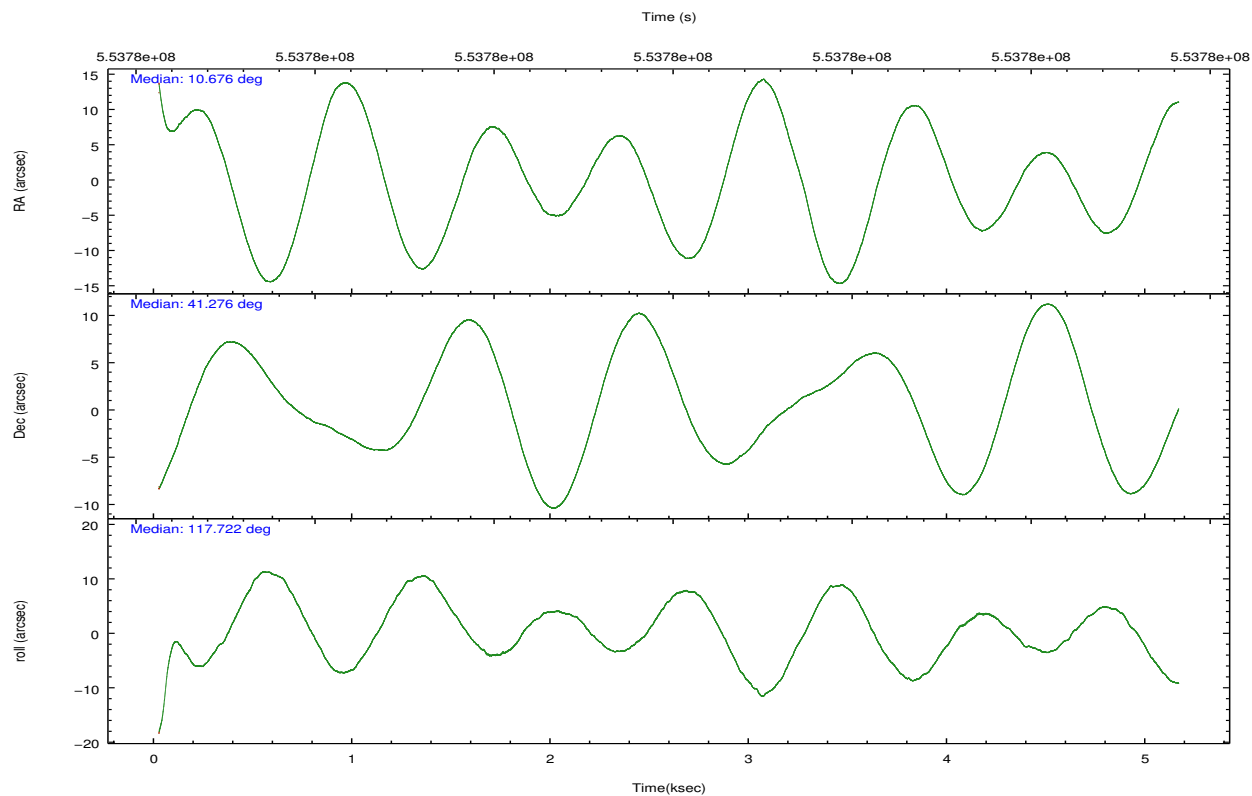
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	2208	3505	2782	5150	1318
	9%	12%	9%	16%	3%
grade 1 events	26	33	28	148	26
	0%	0%	0%	0%	0%
grade 2 events	862	1169	962	1276	3198
	3%	4%	3%	3%	9%
grade 3 events	362	396	333	500	1200
	1%	1%	1%	1%	3%
grade 4 events	338	413	355	505	1254
	1%	1%	1%	1%	3%
grade 5 events	1213	1190	1110	1380	3499
	4%	4%	3%	4%	9%
grade 6 events	650	820	652	832	8334
	2%	3%	2%	2%	23%
grade 7 events	18686	19741	22390	22326	16304
	76%	72%	78%	69%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	10.706389	10.67535425128114	CCD I2 on	Y	Y
[deg] Pointing Dec	41.261243	41.27585992820202	CCD I3 on	Y	Y
[deg] Pointing Roll	117.500022	117.7291380784542	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	553776557.184000	553775227.93466	CCD S5 on	N	N
Observation start date	2015-07-20T10:48:09	2015-07-20T10:27:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	553781557.184000	553782649.96007	On-chip summing requested	N	N
Observation end date	2015-07-20T12:11:29	2015-07-20T12:30:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



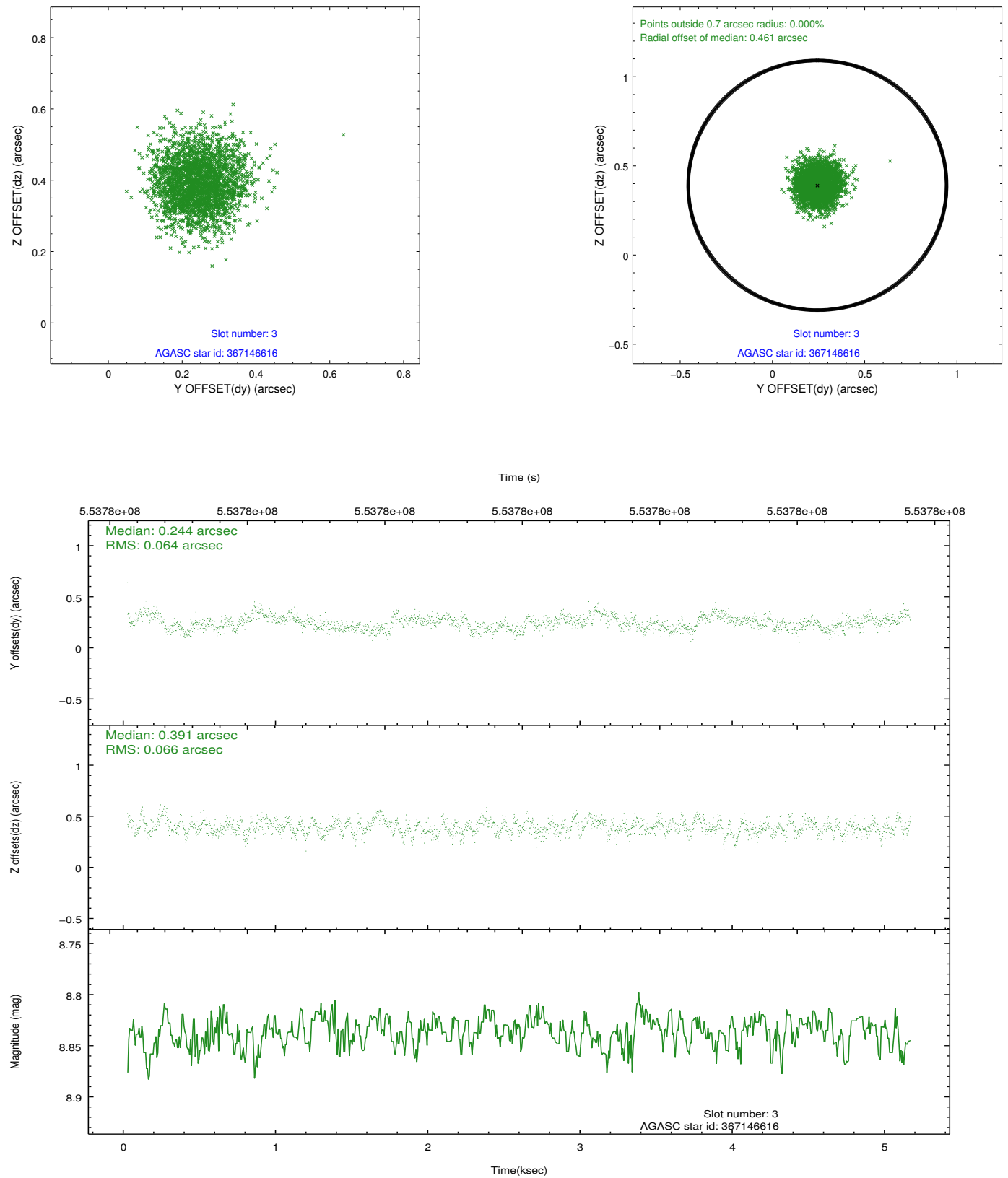


Slot Statistics

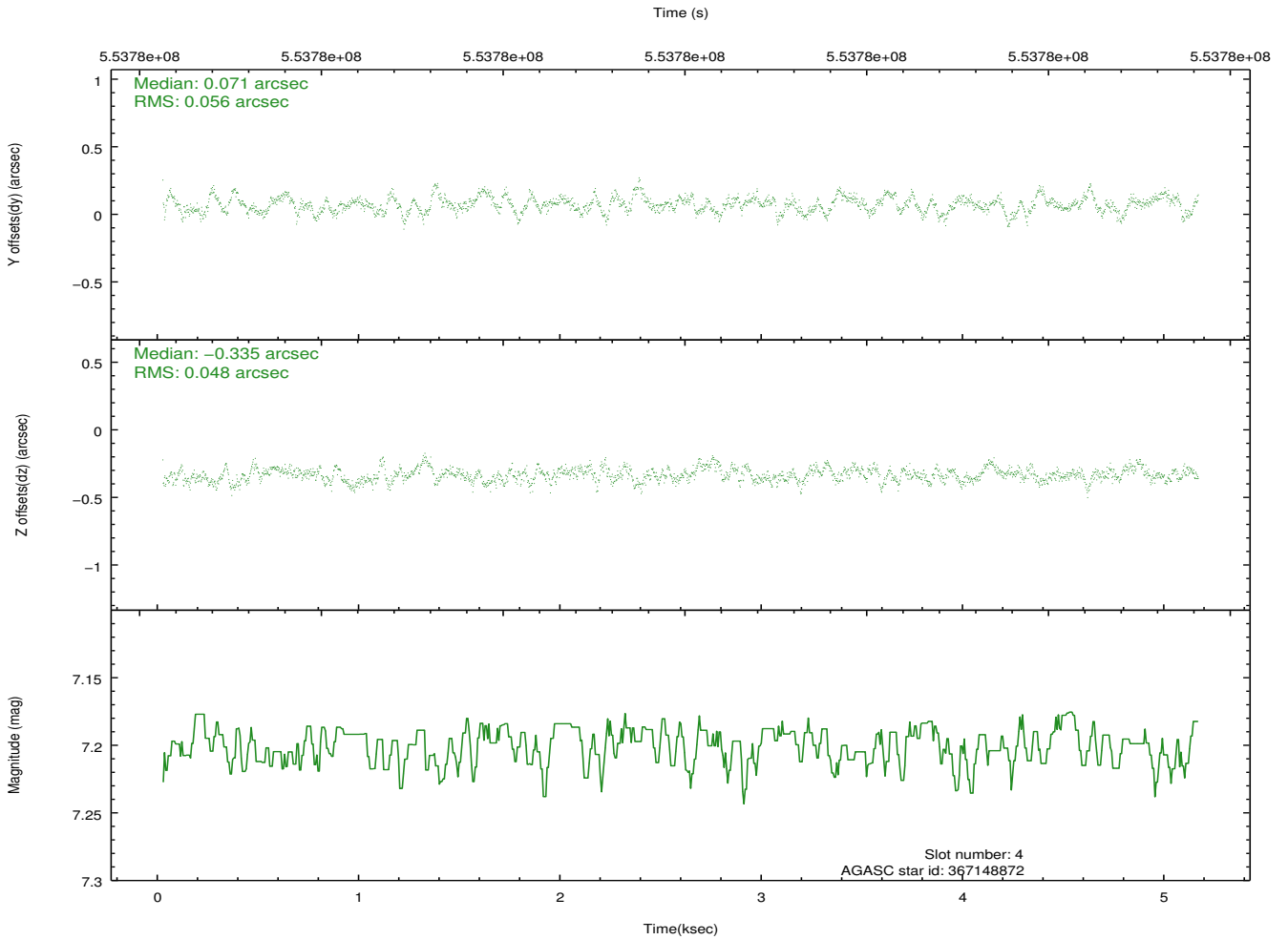
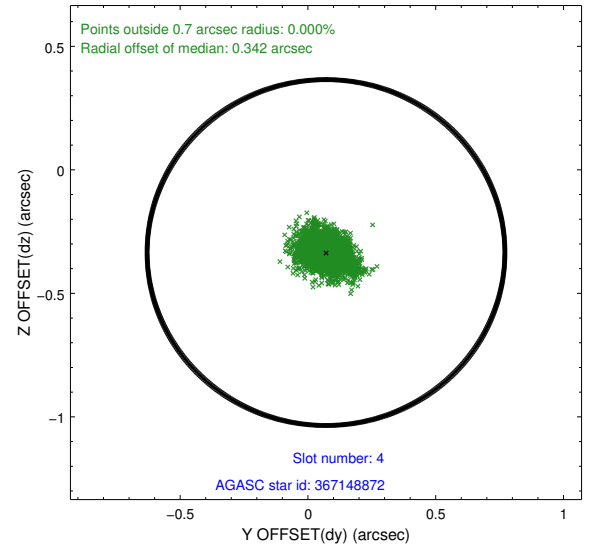
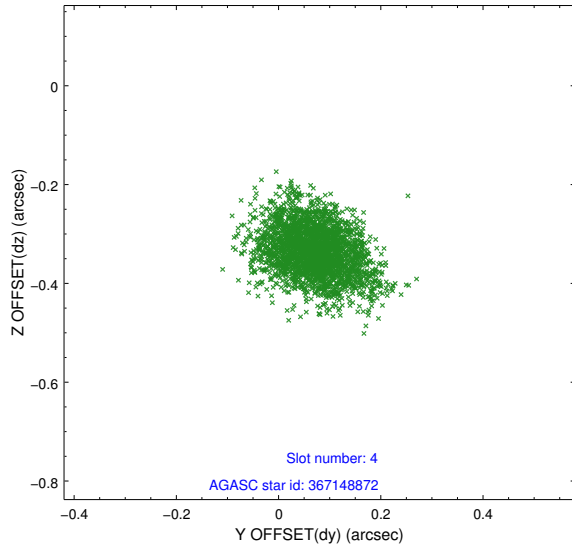
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.20	1255	0.085	-0.030	0.007	0.013	0.000000	0.000000	924.82	-840.83
1	FID		ACIS-I-5	7.21	1255	-0.272	0.074	0.007	0.011	0.000000	0.000000	-1823.00	1056.15
2	FID		ACIS-I-6	7.19	1255	0.096	0.026	0.009	0.015	0.000000	0.000000	389.08	1701.96
3	GUIDE	used	367146616	8.84	2508	0.244	0.391	0.099	0.156	11.418645	41.190163	-1109.87	-1596.41
4	GUIDE	used	367148872	7.20	2510	0.071	-0.335	0.079	0.130	10.505940	40.688258	-1577.19	1437.40
5	GUIDE	used	367657896	8.99	2508	0.063	-0.003	0.119	0.187	11.197765	41.313576	-442.84	-1266.38
6	GUIDE	used	367663272	9.24	2509	-0.187	-0.089	0.138	0.208	10.656279	41.699429	1461.86	-607.58
7	GUIDE	used	367674552	8.84	2508	-0.194	0.039	0.100	0.155	11.016238	41.570845	605.59	-1255.41

2.4 Star Slots

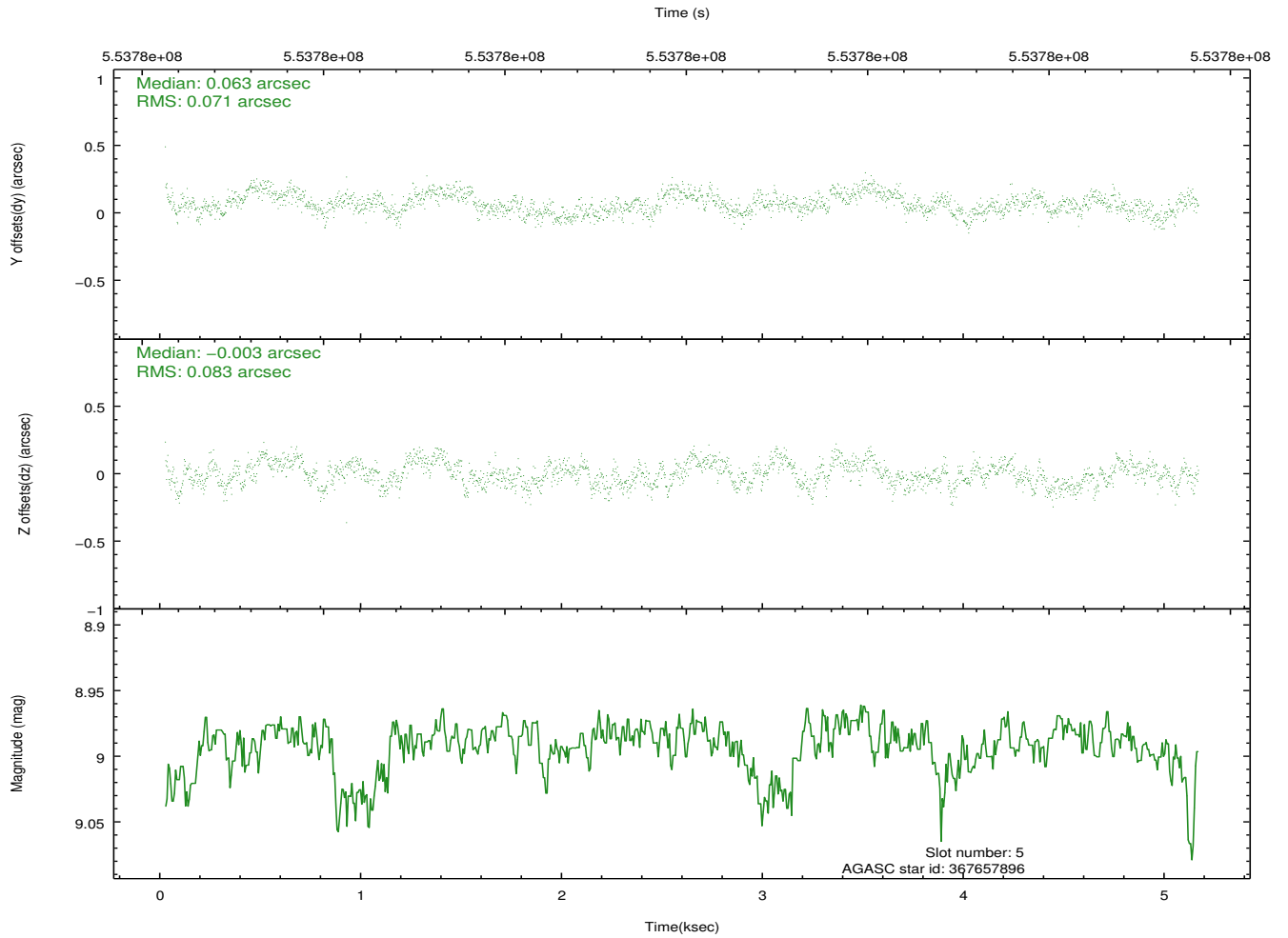
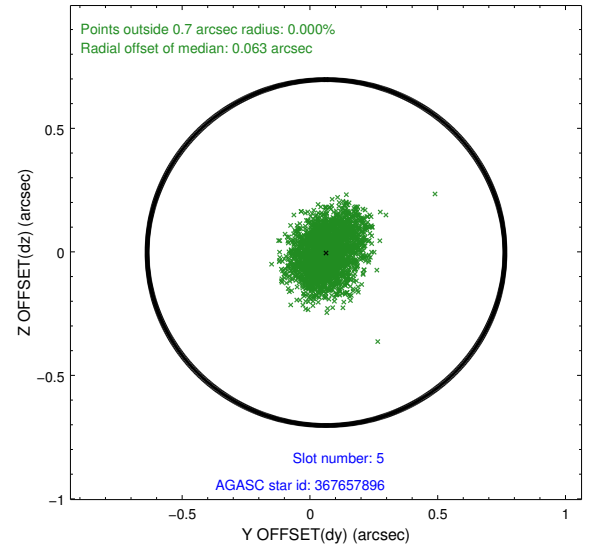
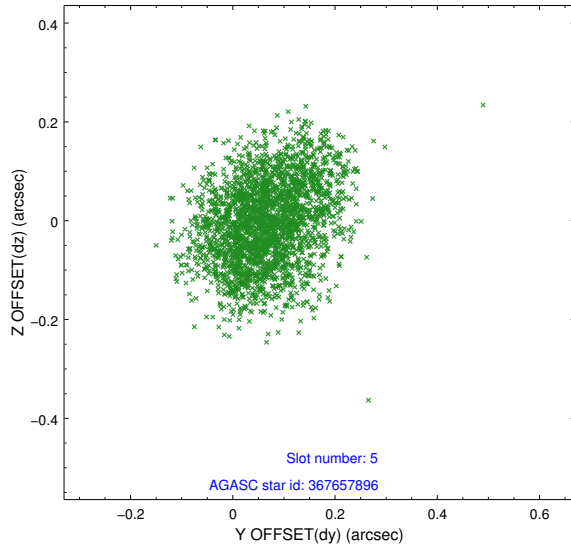
2.4.1 Slot 3



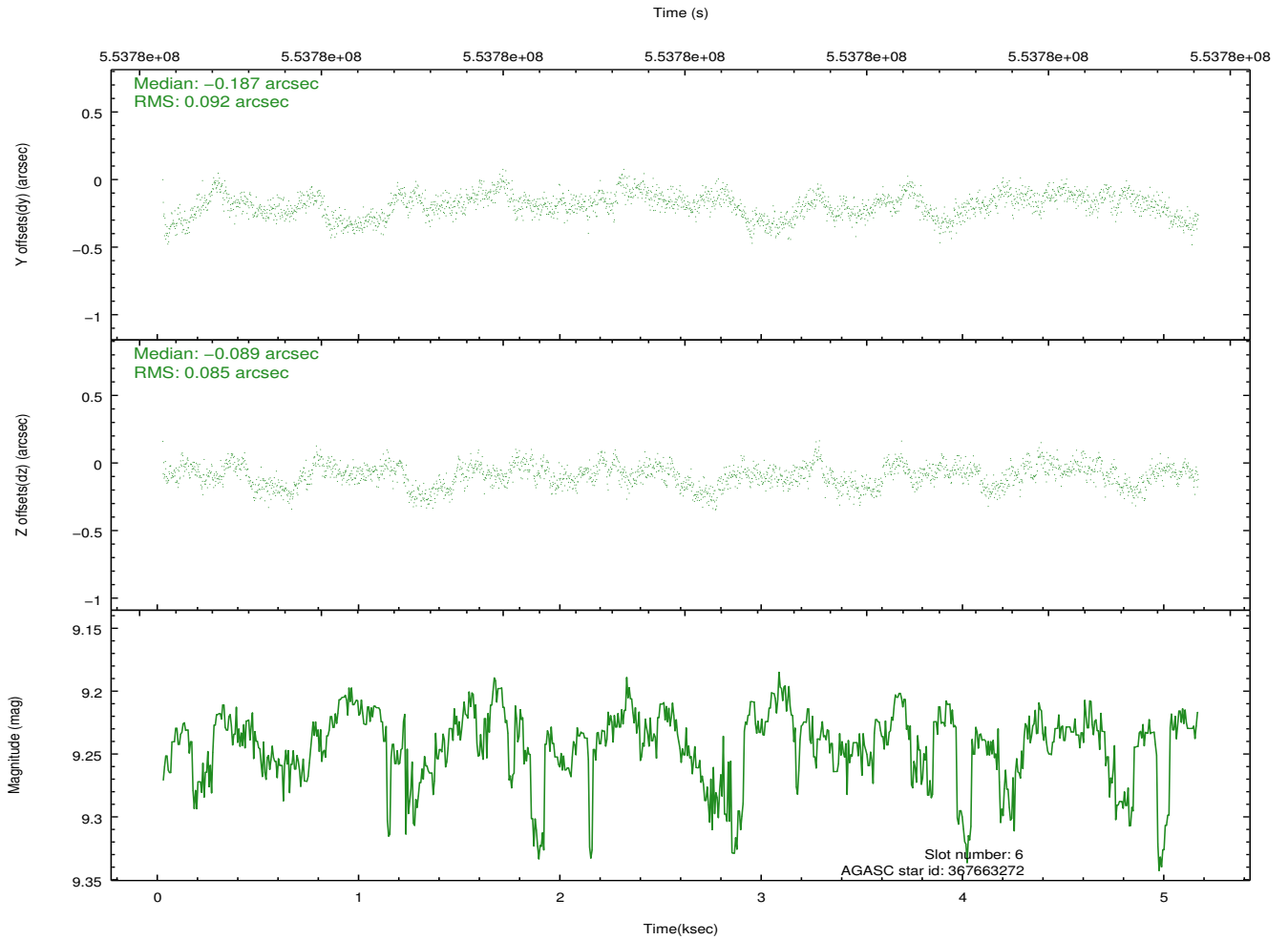
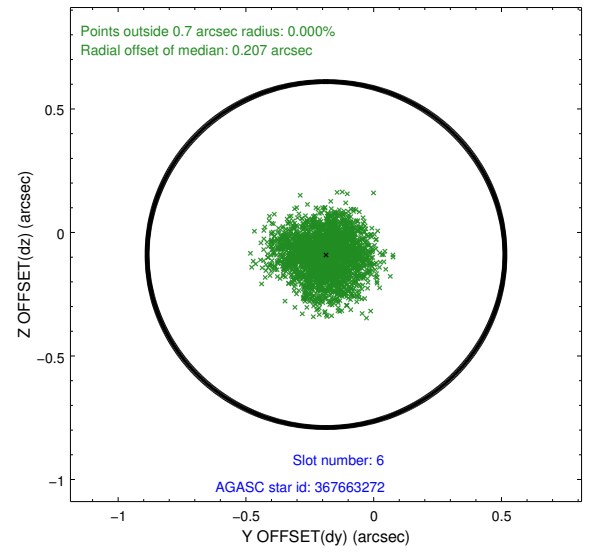
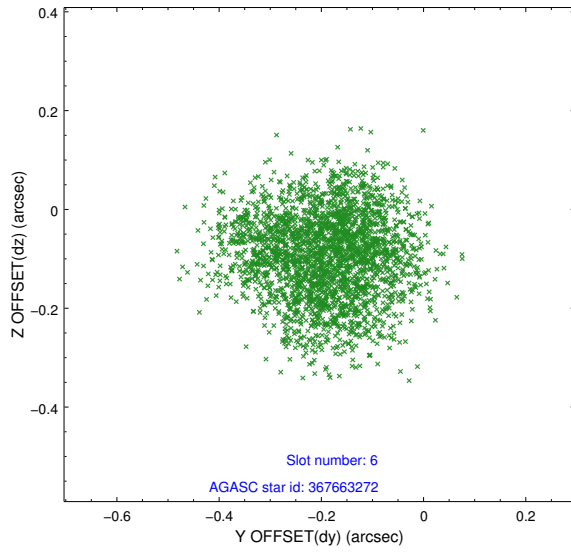
2.4.2 Slot 4



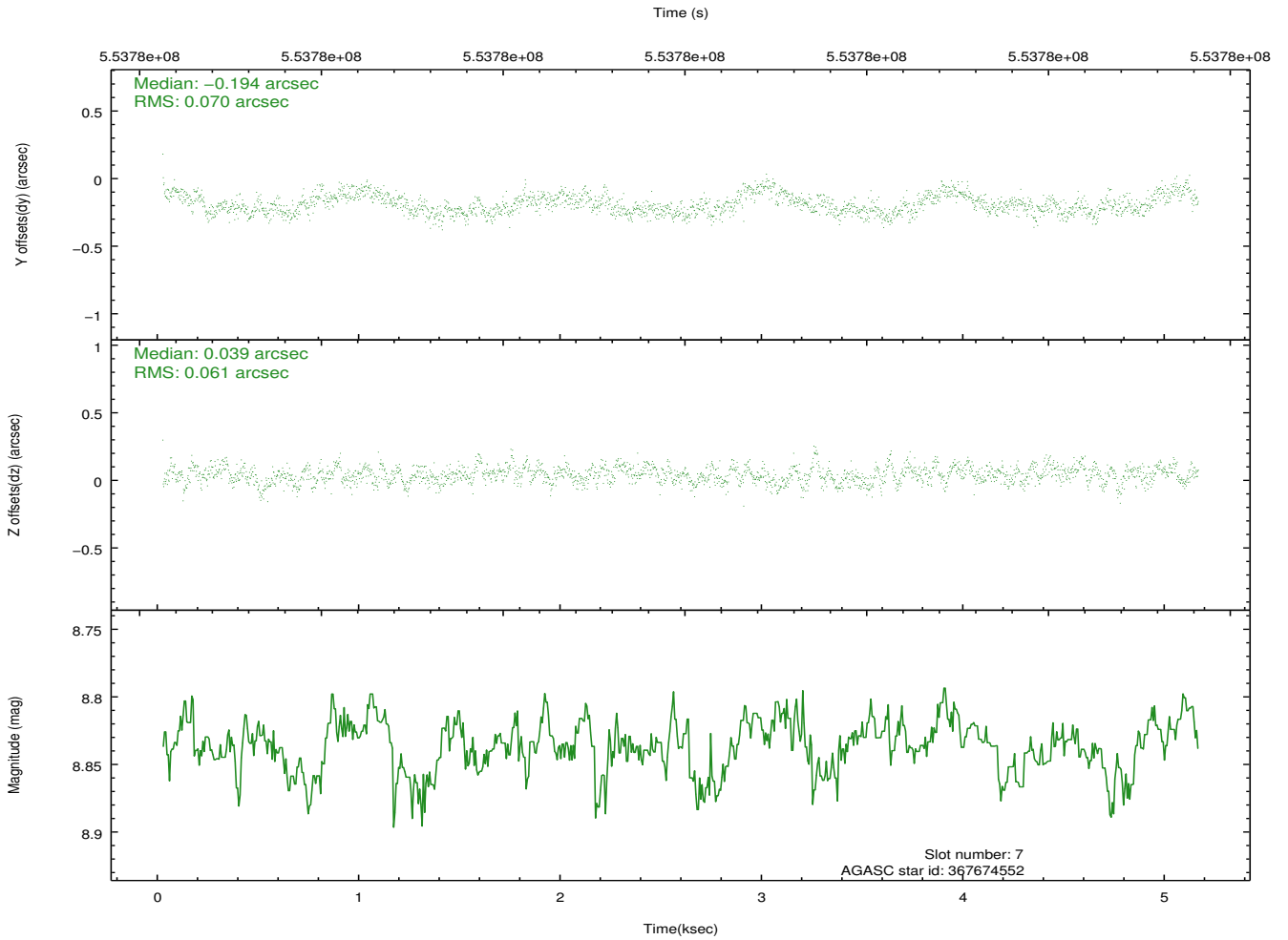
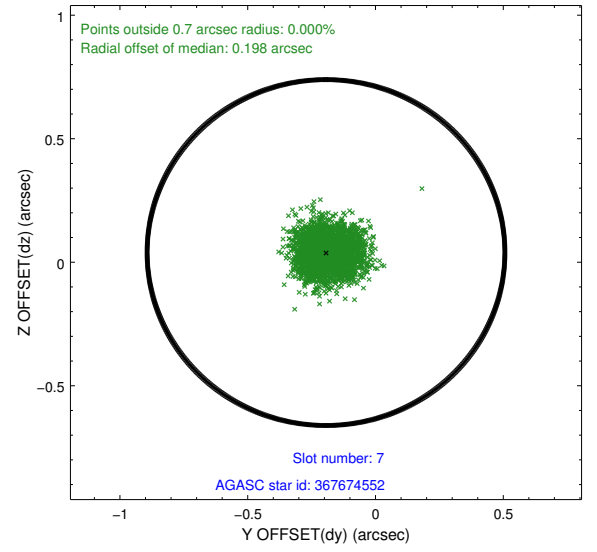
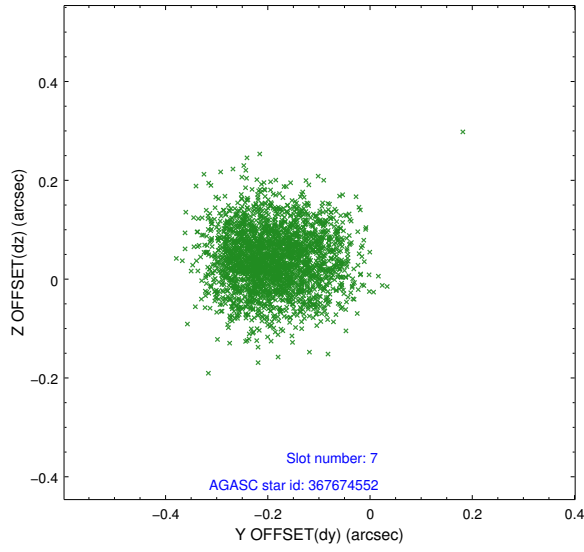
2.4.3 Slot 5



2.4.4 Slot 6

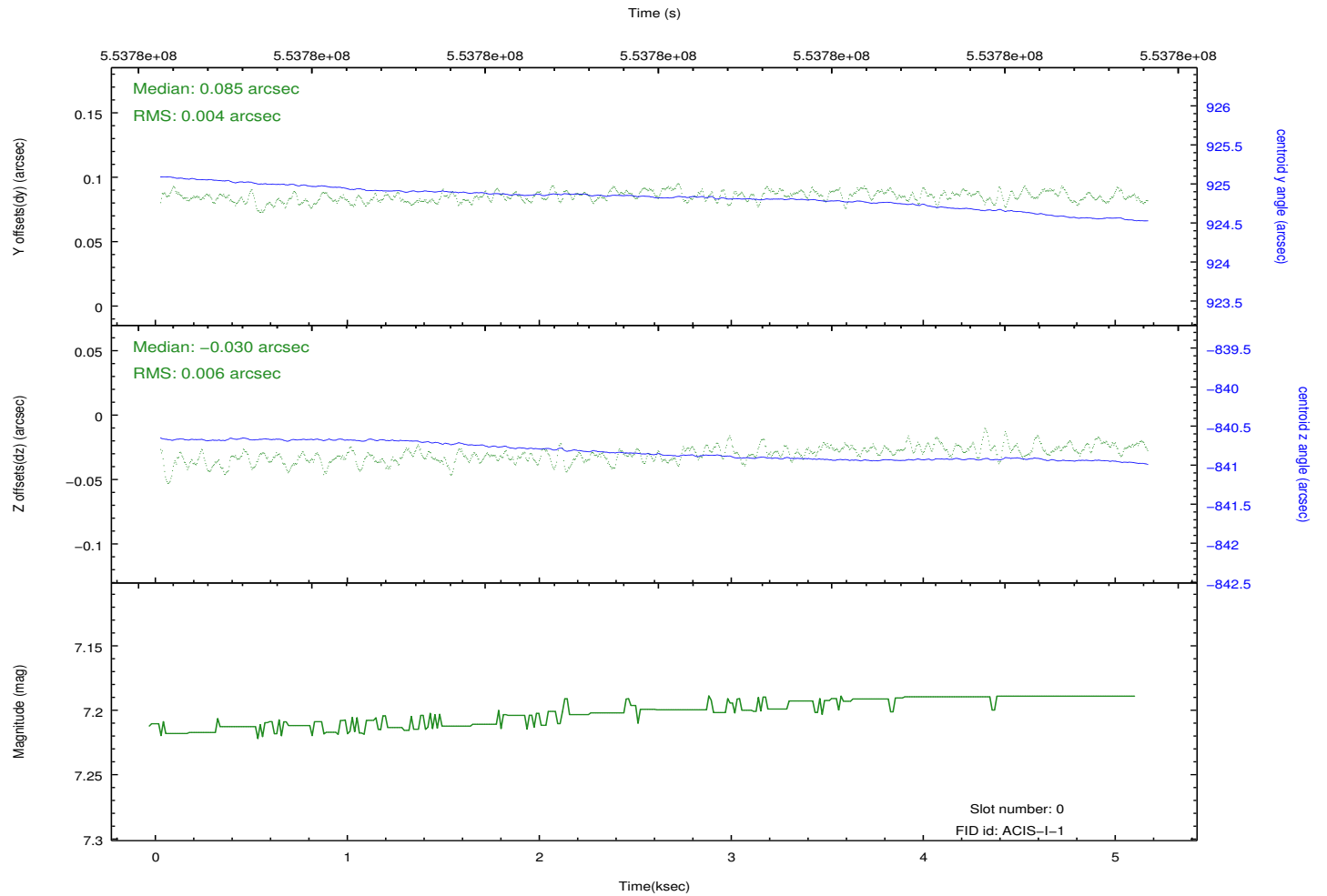
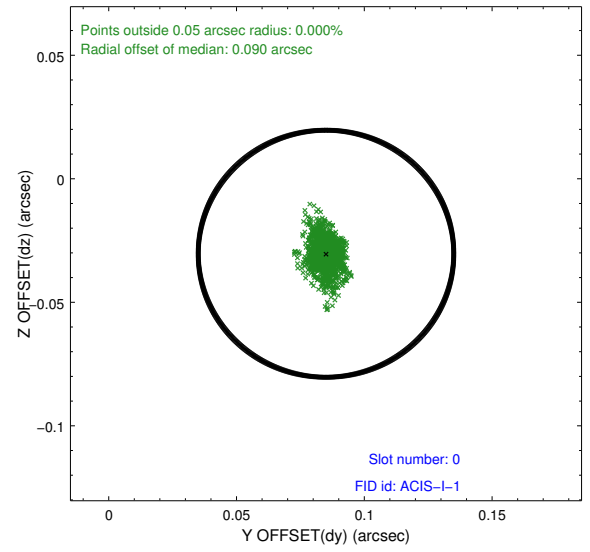
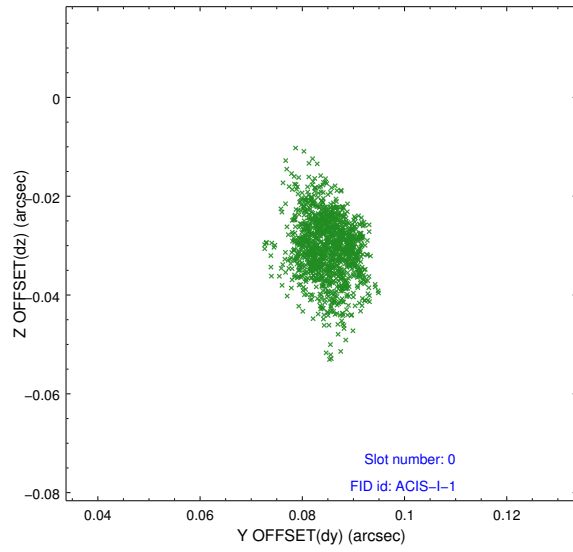


2.4.5 Slot 7

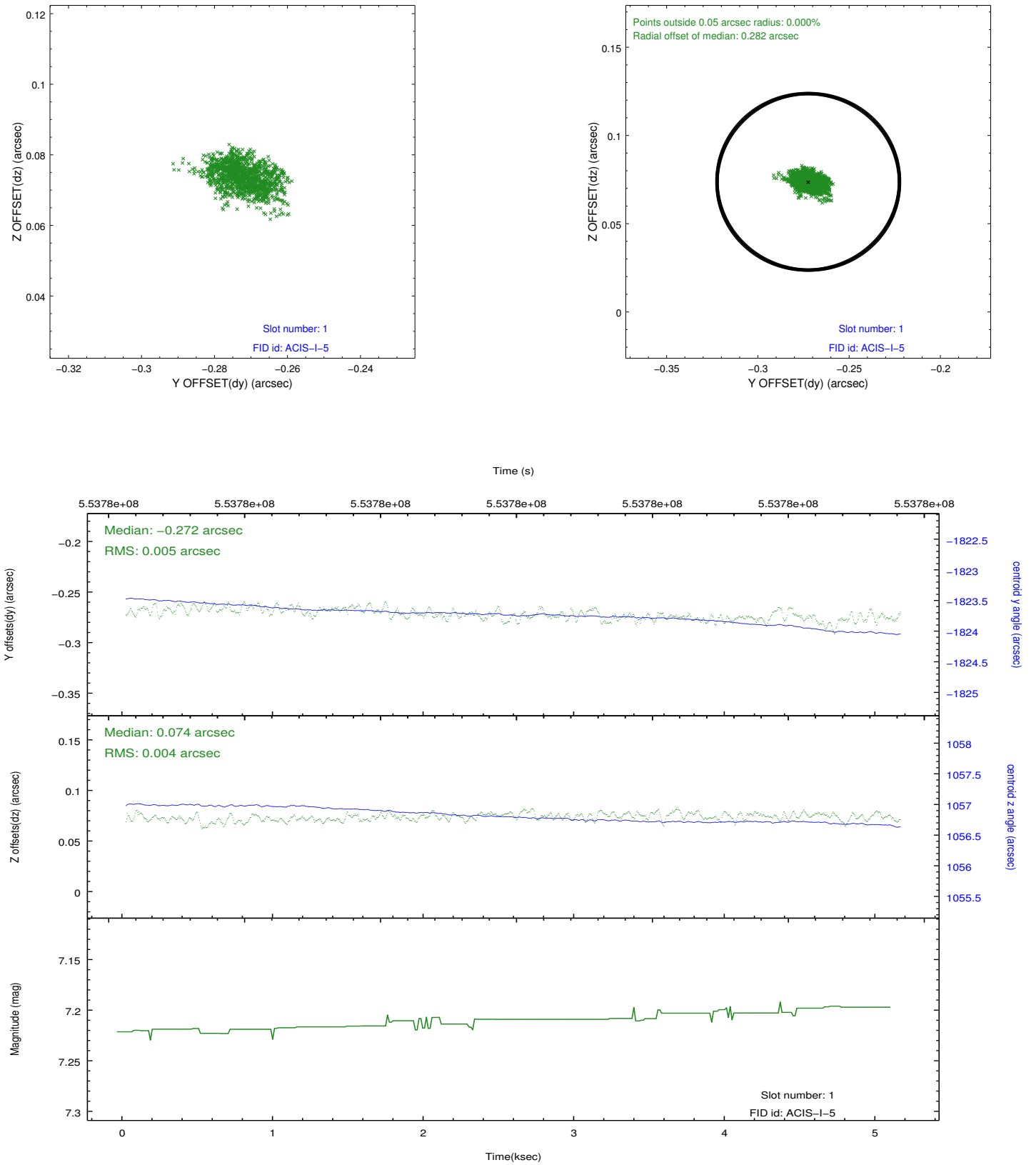


2.5 FID Slots

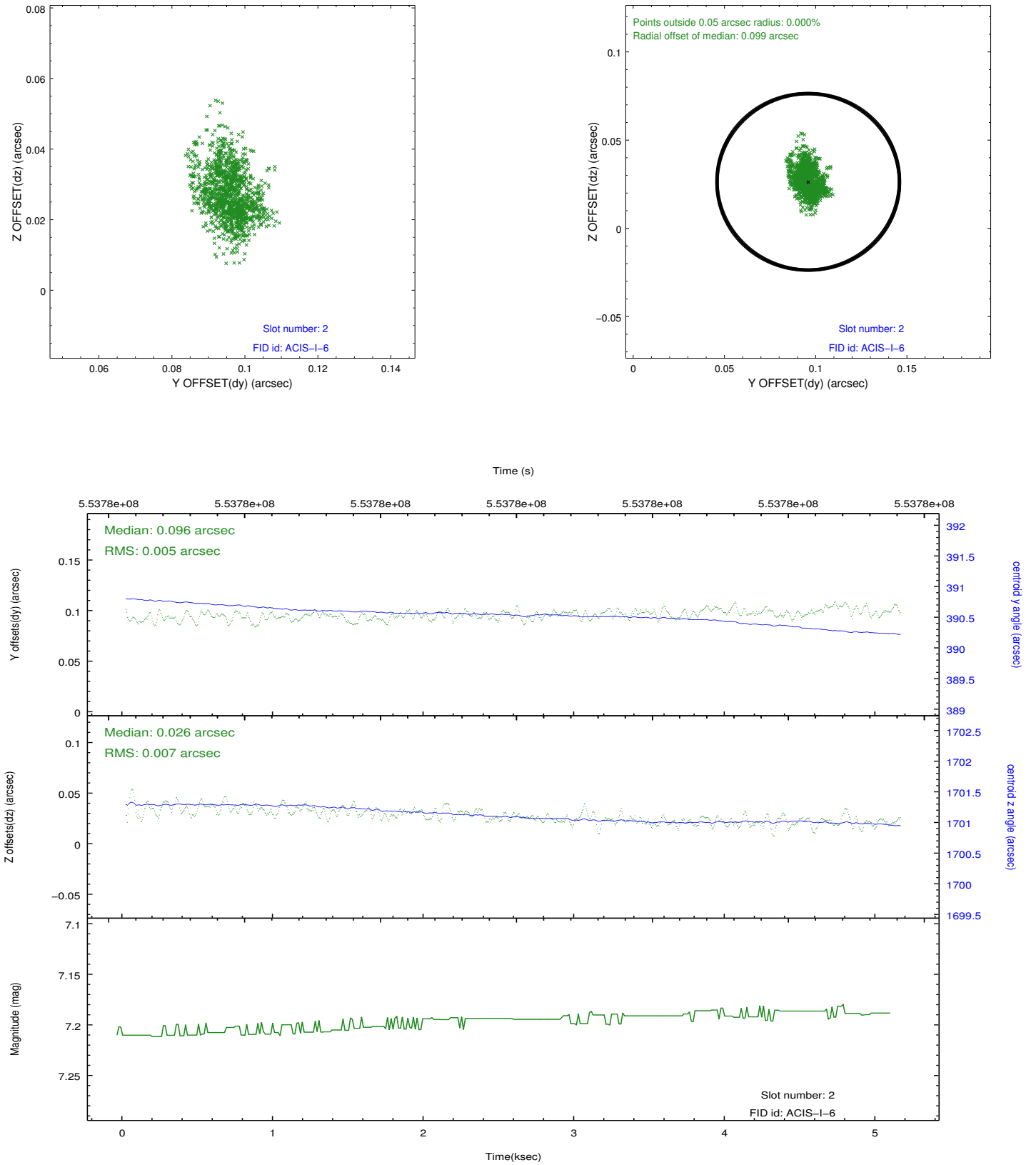
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.07.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0456024616957

A.2 Comments