

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10978 - L2 Version 2
Chandra X-Ray Center

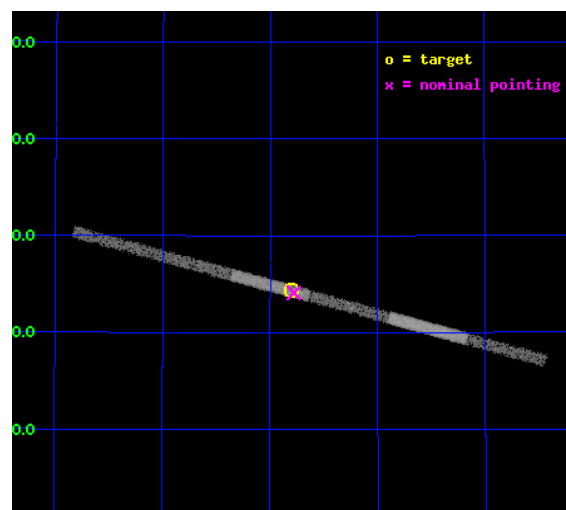
L2 Processing Date : Jun 14 2012

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

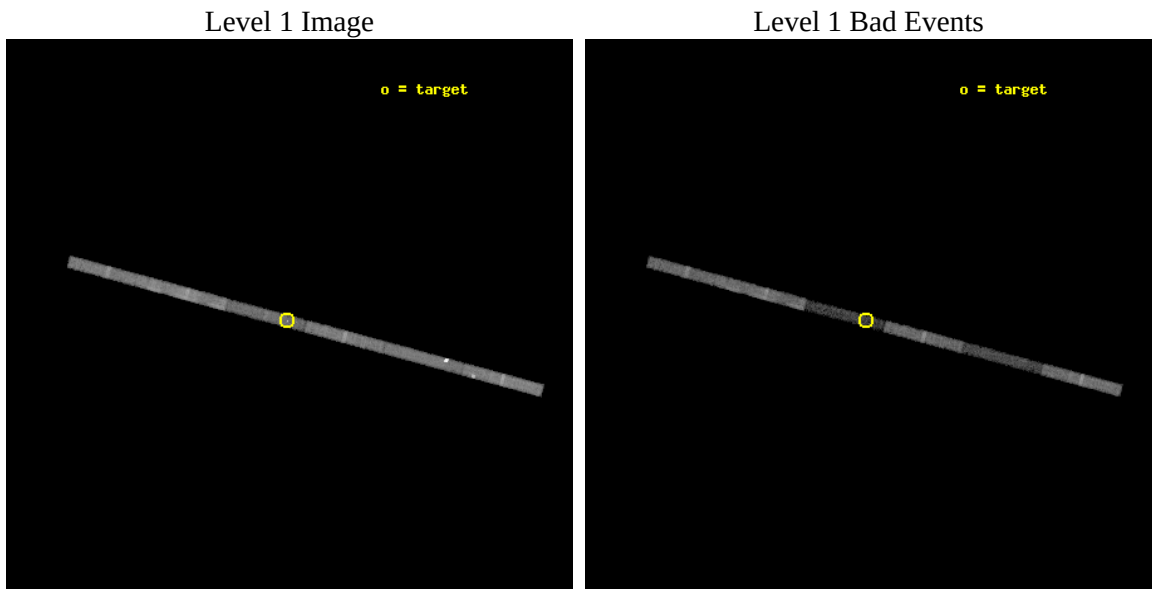
seq_num	200610	Sequence number
obs_id	10978	Observation id
title	Star-Planet Interaction in the upsilon Andromedae extrasolar planet system	Proposal title
observer	Dr. Katja Poppenhaeger	Principal investigator
object	HD 9826	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.199167	Observer's specified target RA [deg]
dec_targ	41.4055	Observer's specified target Dec [deg]
ra_nom	24.194735479702	Nominal RA [deg]
dec_nom	41.401974655153	Nominal Dec [deg]
roll_nom	195.05219707609	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15134.699742198	Sum of GTIs [s]
livetime	14296.51546413	Livetime [s]
ontime4	15134.699742198	Sum of GTIs [s]
ontime5	15134.699742198	Sum of GTIs [s]
ontime6	15134.699742198	Sum of GTIs [s]
ontime7	15134.699742198	Sum of GTIs [s]
ontime8	15134.699742198	Sum of GTIs [s]
ontime9	15134.699742198	Sum of GTIs [s]
l2events	20993	Number of level 2 events



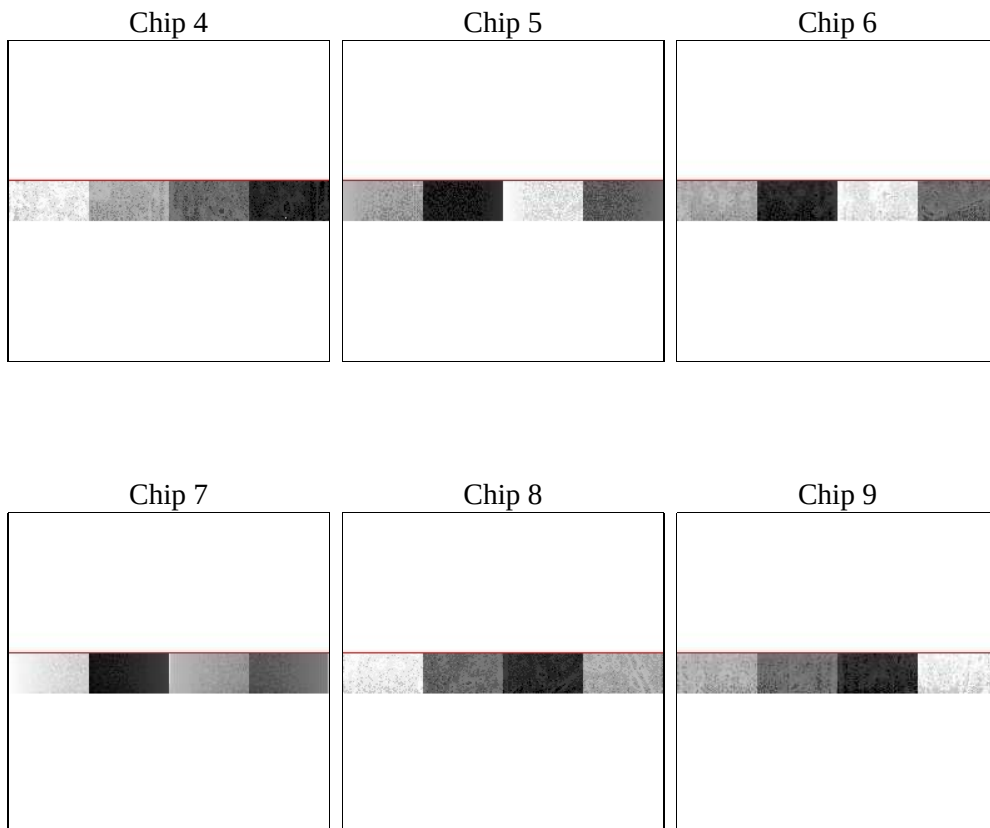
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15134.699742198	Sum of GTIs [s]
caldsver	4.4.10	 	ontime4	15134.699742198	Sum of GTIs [s]
date	2012-06-15T01:24:40	Date and time of file creation	ontime5	15134.699742198	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	15134.699742198	Sum of GTIs [s]
			ontime7	15134.699742198	Sum of GTIs [s]
			ontime8	15134.699742198	Sum of GTIs [s]
			ontime9	15134.699742198	Sum of GTIs [s]
			l1events	143595	Number of level 1 events

2.1.4 Events

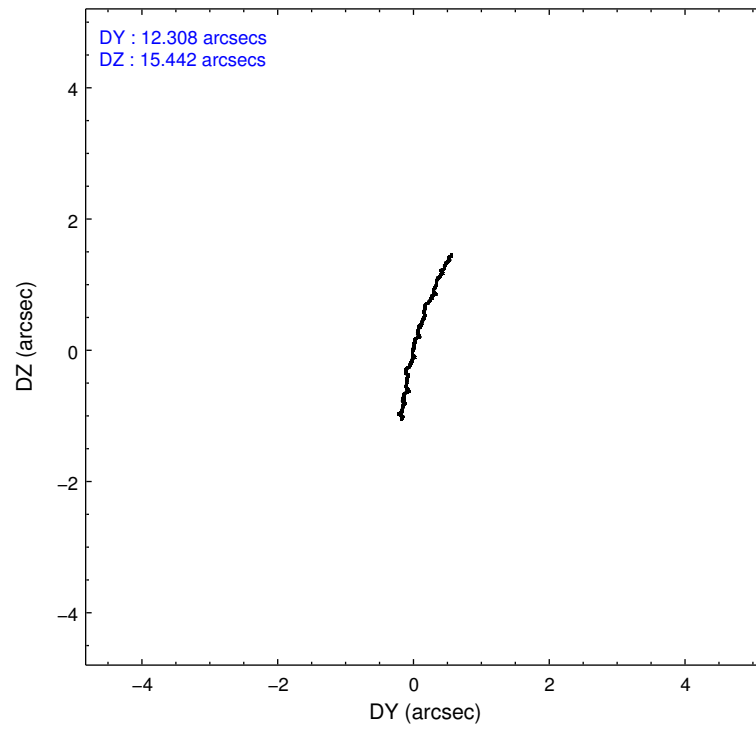
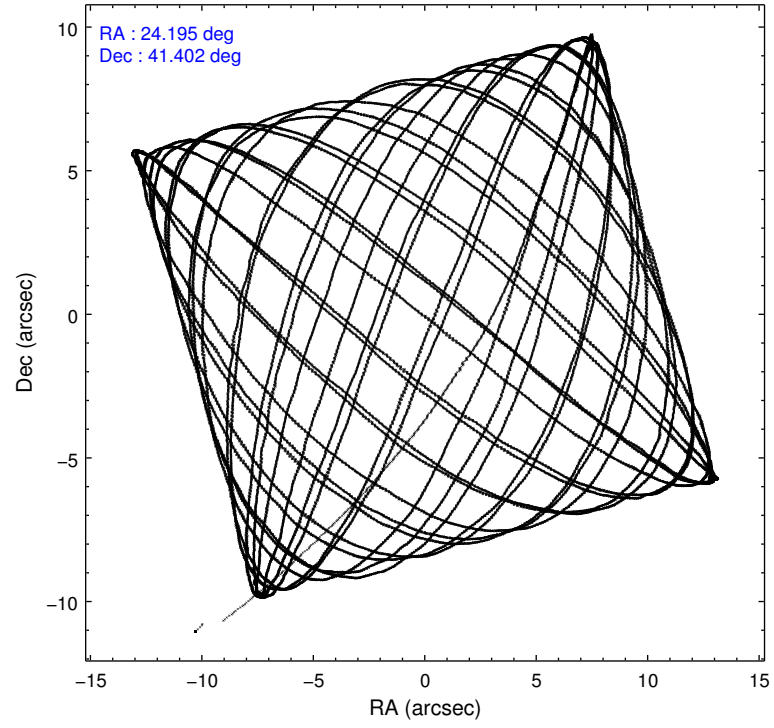
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	25953	37633	20208	12003	28684	19114
rejected events	22219	8249	18235	5067	22661	17301
rejected %	85%	21%	90%	42%	79%	90%

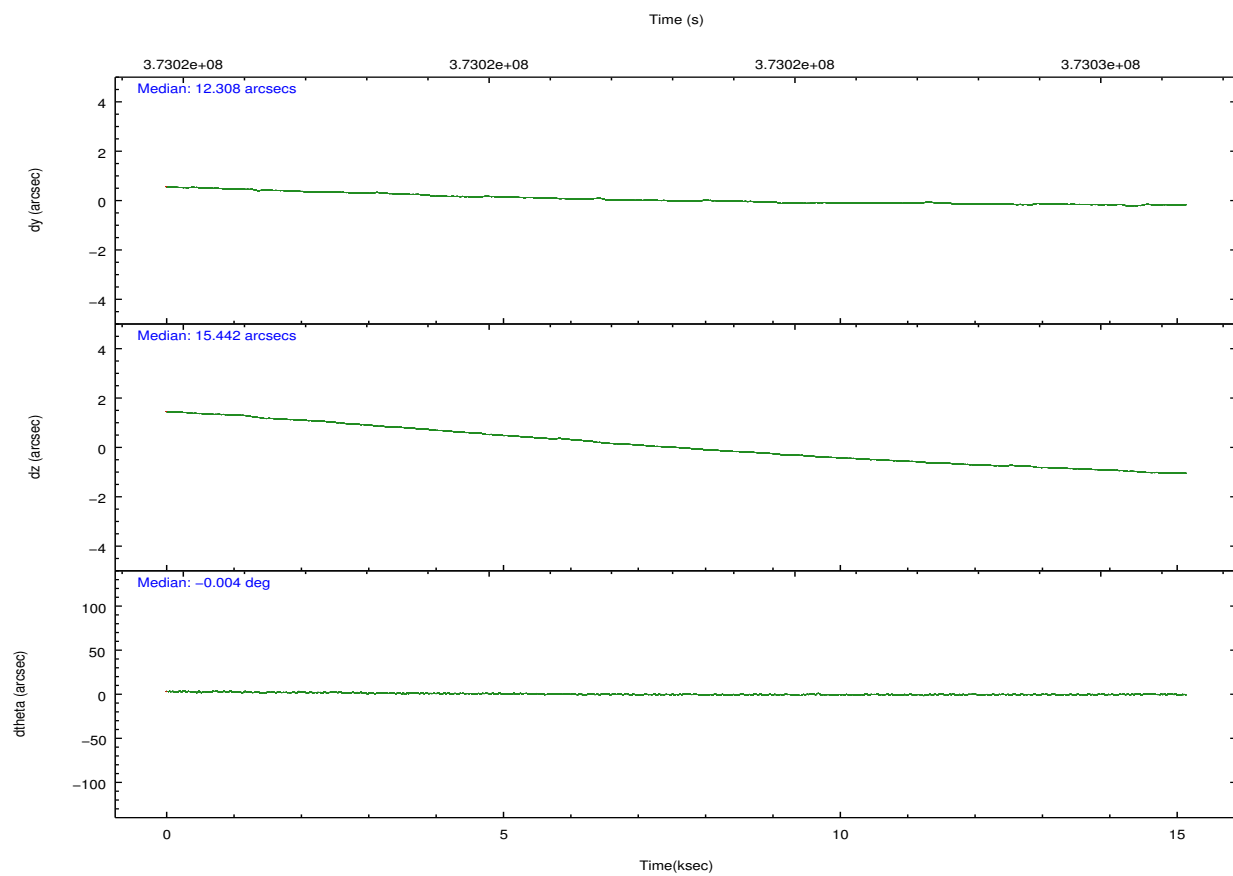
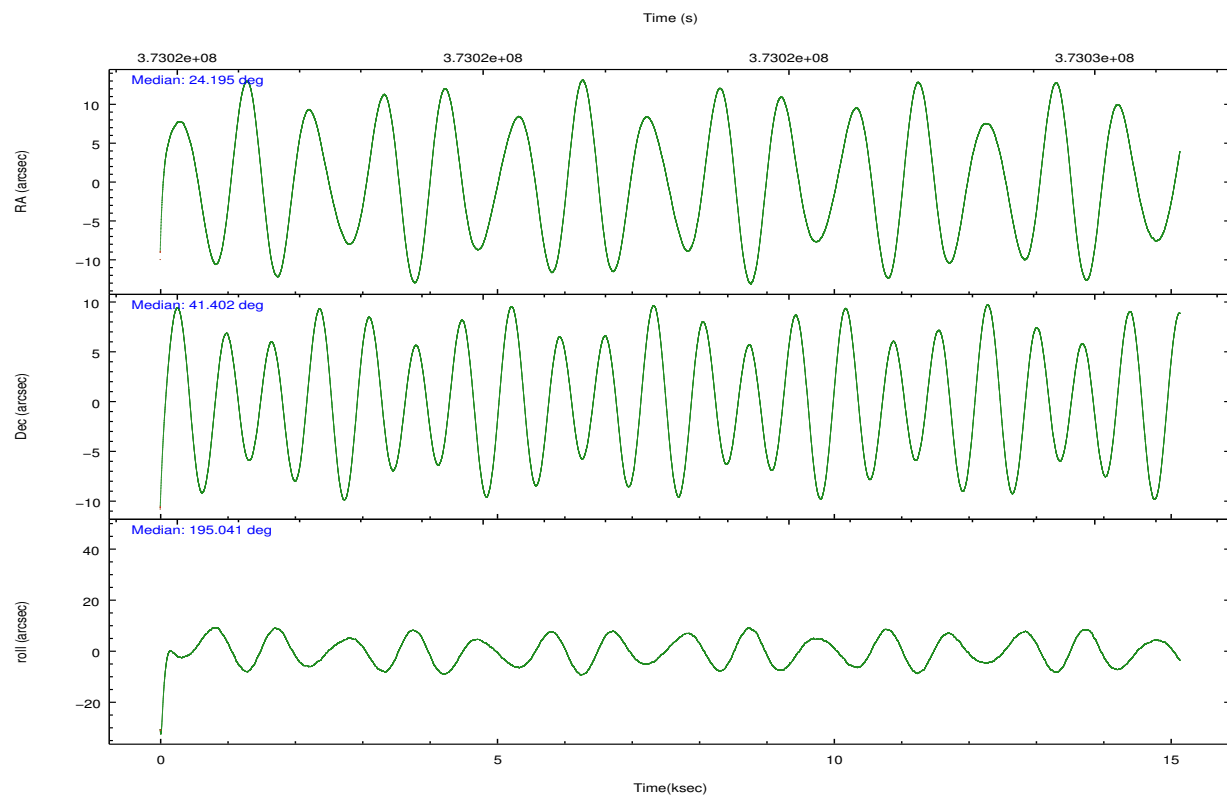
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2368	19168	629	1268	1437	623
	9%	50%	3%	10%	5%	3%
grade 1 events	45	133	5	40	15	9
	0%	0%	0%	0%	0%	0%
grade 2 events	487	6522	335	1810	1401	330
	1%	17%	1%	15%	4%	1%
grade 3 events	412	891	409	957	685	375
	1%	2%	2%	7%	2%	1%
grade 4 events	354	881	404	951	682	358
	1%	2%	1%	7%	2%	1%
grade 5 events	409	1560	344	1130	612	345
	1%	4%	1%	9%	2%	1%
grade 6 events	345	3834	314	2362	2268	265
	1%	10%	1%	19%	7%	1%
grade 7 events	21533	4644	17768	3485	21584	16809
	82%	12%	87%	29%	75%	87%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	24.220149	24.19473547970171	CCD I2 on	N	N
[deg] Pointing Dec	41.421588	41.40197465515266	CCD I3 on	N	N
[deg] Pointing Roll	194.878789	195.0521970760876	CCD S0 on	O2	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O4	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O3	Y
Phase constraints	Y	Y	CCD S5 on	O1	Y
[d] Phase period	2.308560	2.308560	Number of optional ACIS chips dropped	0	0
[d] Phase epoch (MJD)	55198.505000	55198.505000	On-chip summing requested	N	N
Phase start	0.962000	0.962000	Subarray requested	CUSTOM	1/8
Phase end	0.038000	0.038000	Subarray start row	449	449
Phase start error	0.163000	0.163000	Subarray row count	128	128
Phase end error	0.163000	0.163000	Alternating exposures requested	N	N
[s] Observation start time (MET)	373015618.184000	373014345.57528	[s] Primary exposure time	0.000000	0.7
Observation start date	2009-10-27T07:25:52	2009-10-27T07:05:45			
[s] Observation end time (MET)	373030618.184000	373031555.32615			
Observation end date	2009-10-27T11:35:52	2009-10-27T11:52:35			
Read mode	TIMED	TIMED			

2.3 Aspect



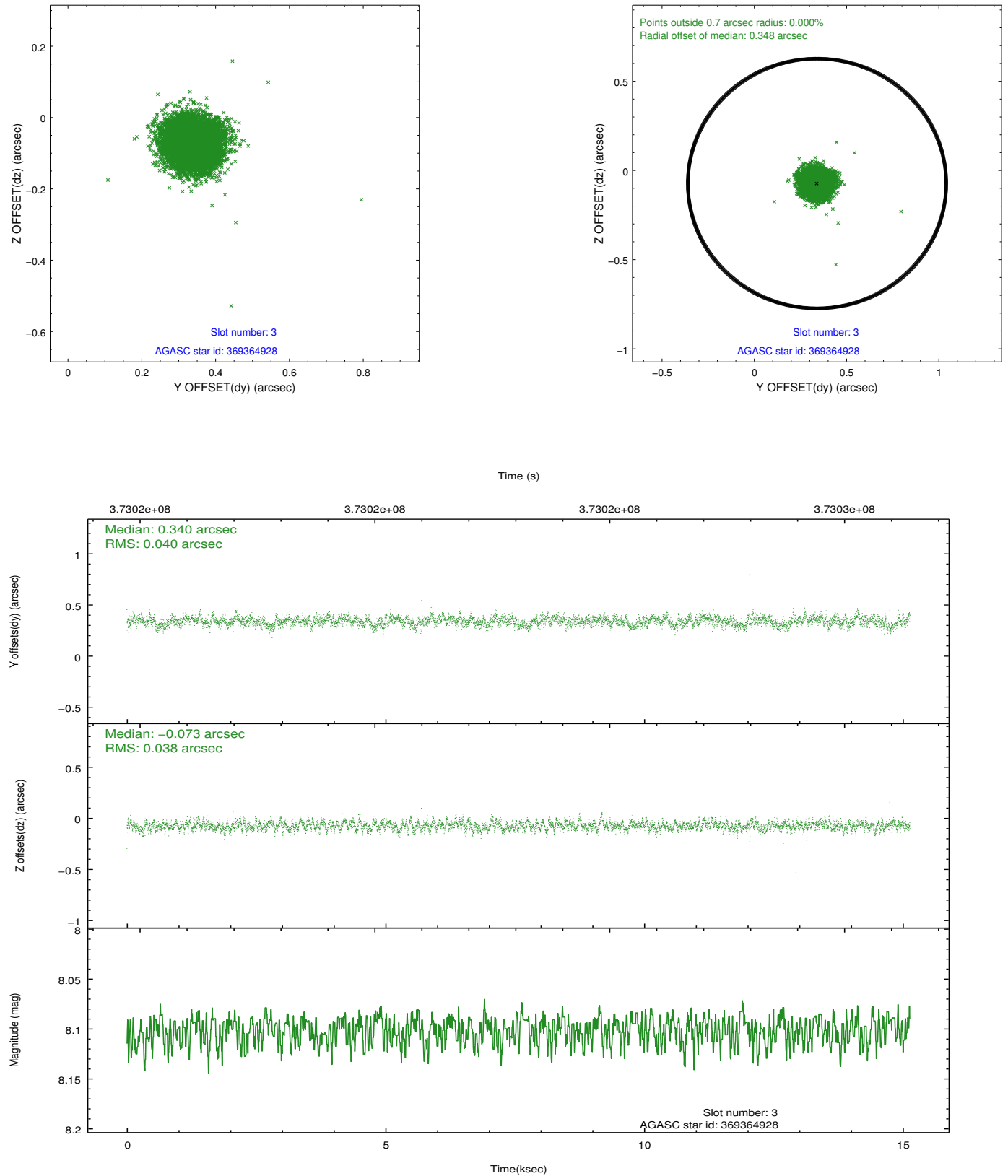


Slot Statistics

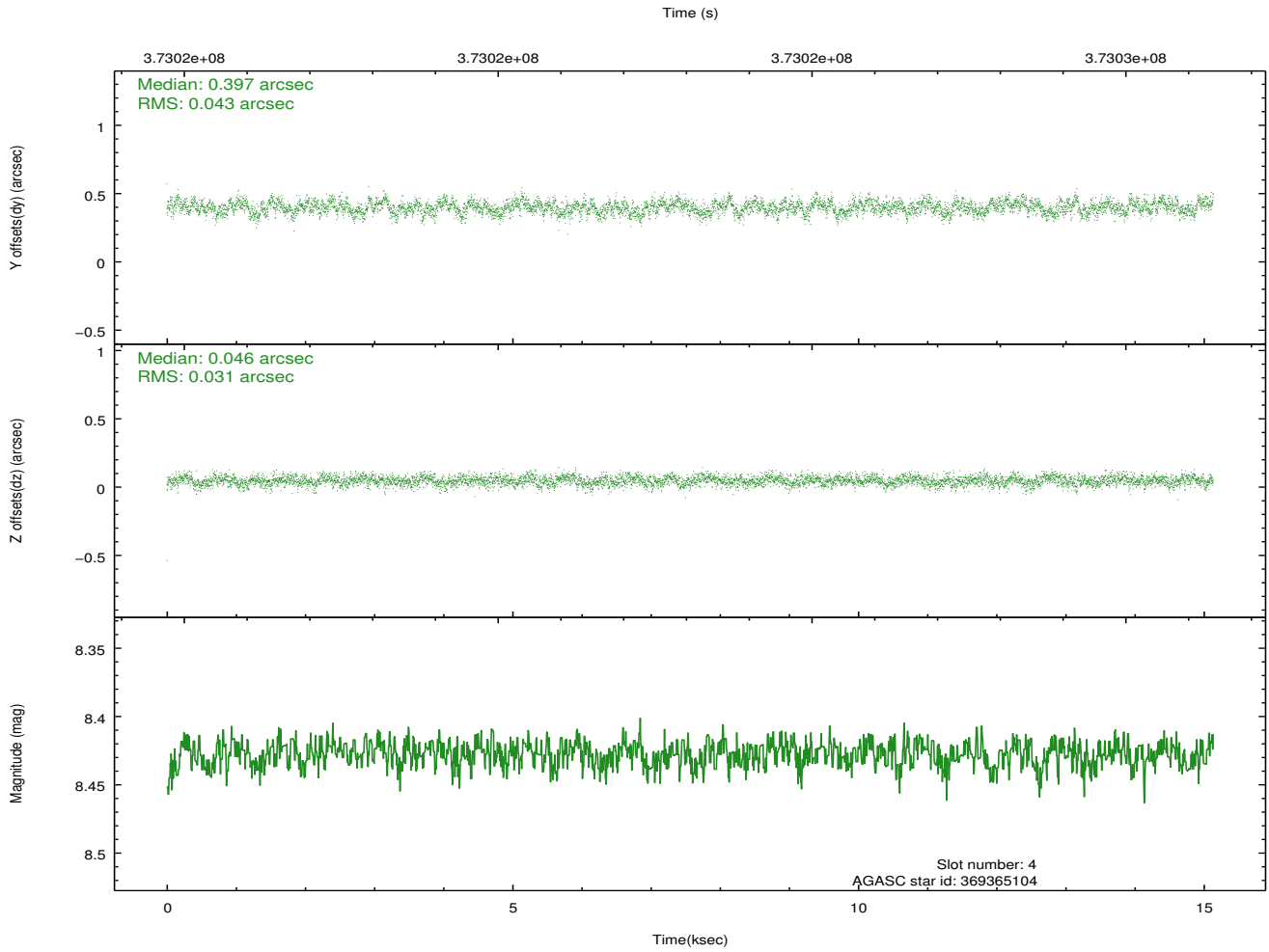
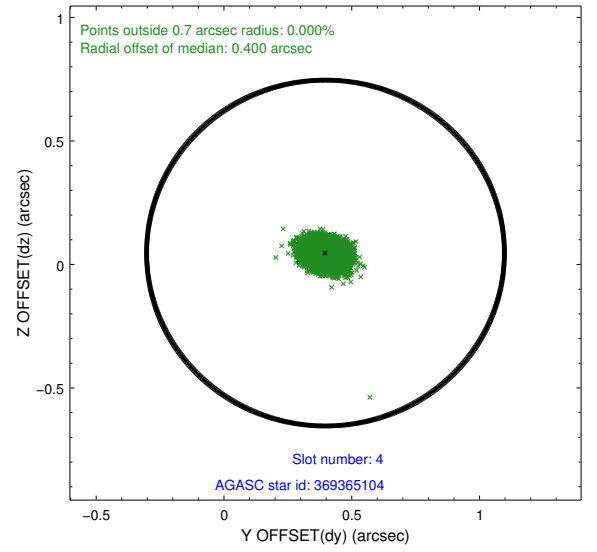
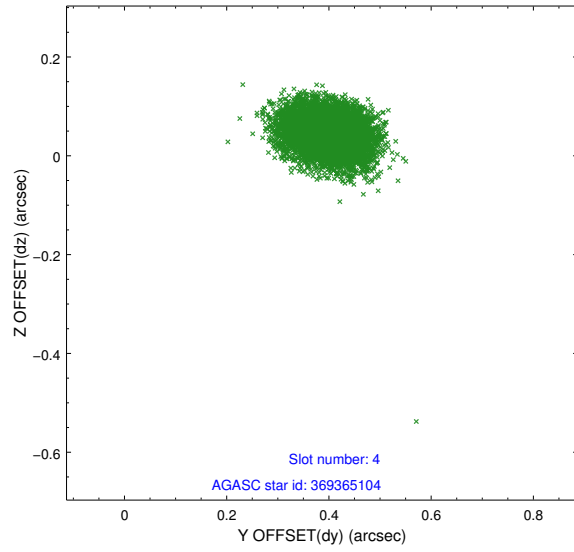
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	3693	-0.076	-0.049	0.007	0.012	0.000000	0.000000	-765.35	-1736.91
1	FID	ACIS-S-4	6.98	3693	0.099	0.030	0.012	0.017	0.000000	0.000000	2147.97	171.34
2	FID	ACIS-S-6	7.11	3692	-0.049	0.027	0.015	0.022	0.000000	0.000000	397.04	809.07
3	GUIDE	369364928	8.10	7384	0.340	-0.073	0.058	0.092	24.519574	41.179125	-560.04	1050.93
4	GUIDE	369365104	8.43	7383	0.397	0.046	0.056	0.092	24.990275	41.245167	-1853.90	1140.39
5	GUIDE	369378400	6.21	7384	-1.168	-0.062	0.067	0.102	23.969066	41.076422	975.74	1025.73
6	GUIDE	369897952	8.86	7375	0.110	0.045	0.092	0.146	24.173292	41.947134	-363.95	-1860.27
7	GUIDE	369361752	7.76	7380	0.321	0.050	0.063	0.103	24.775291	41.161068	-1214.66	1288.22

2.4 Star Slots

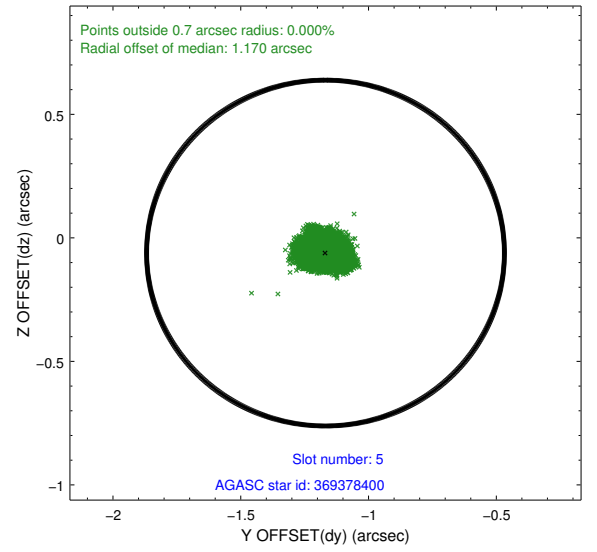
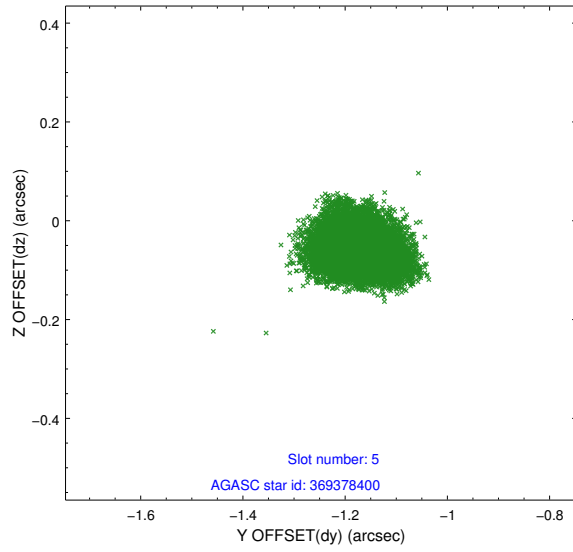
2.4.1 Slot 3



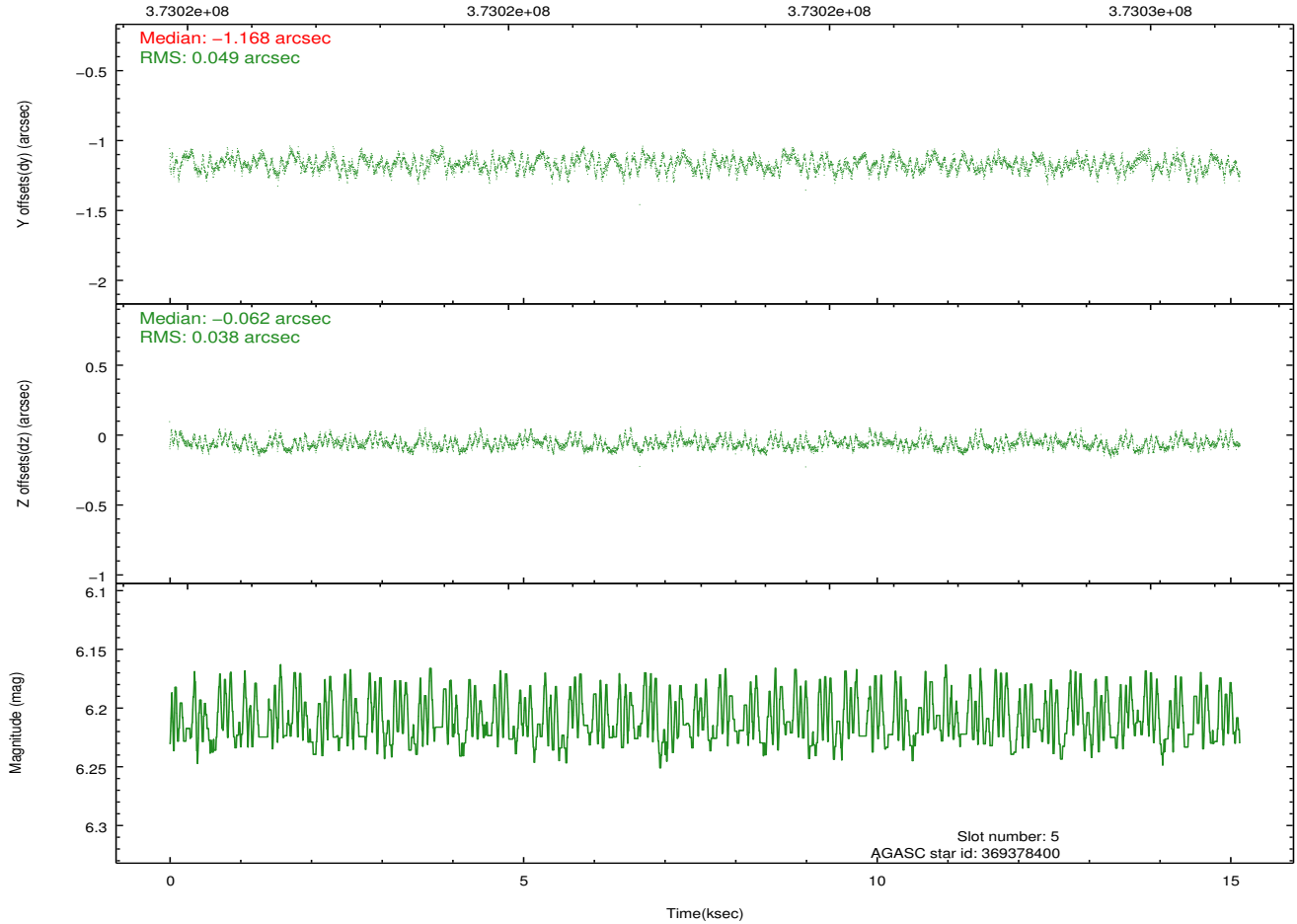
2.4.2 Slot 4



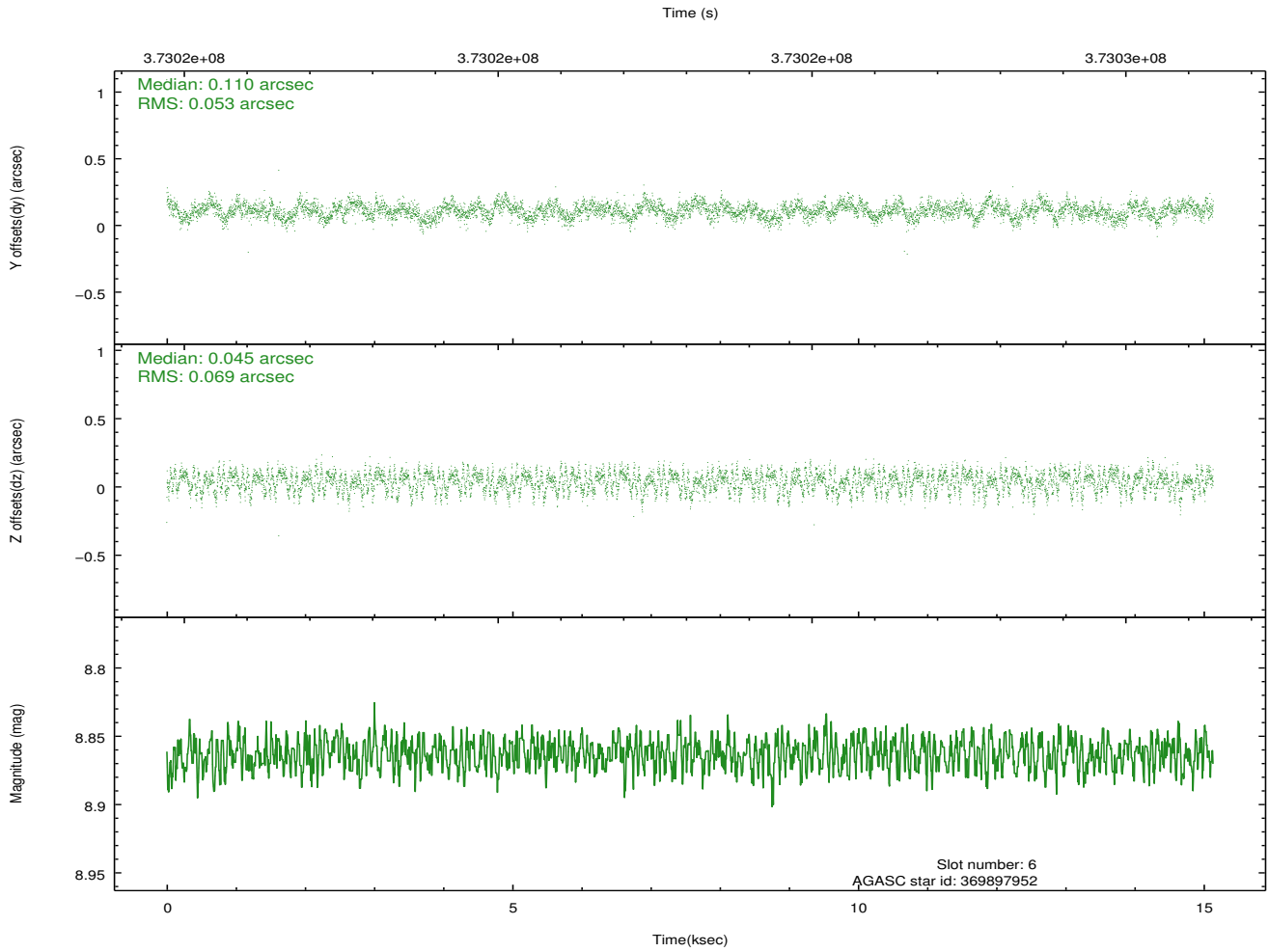
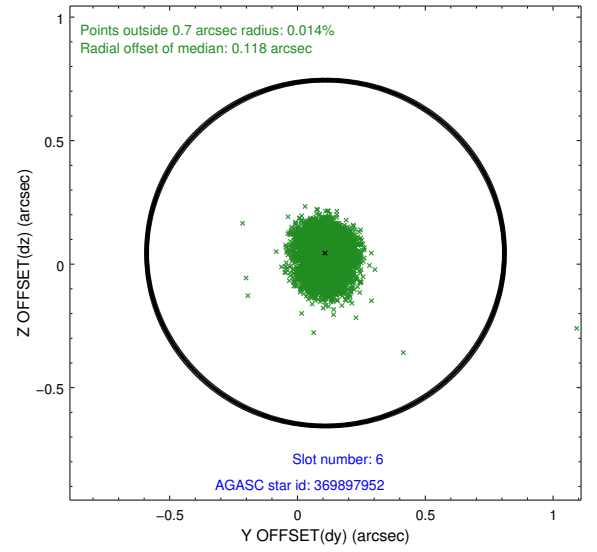
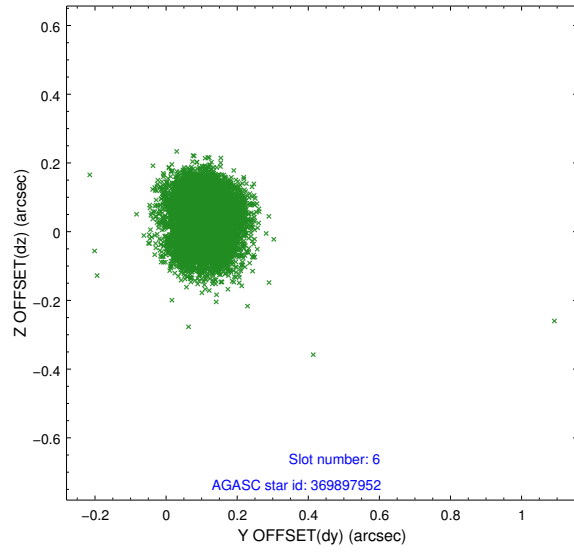
2.4.3 Slot 5



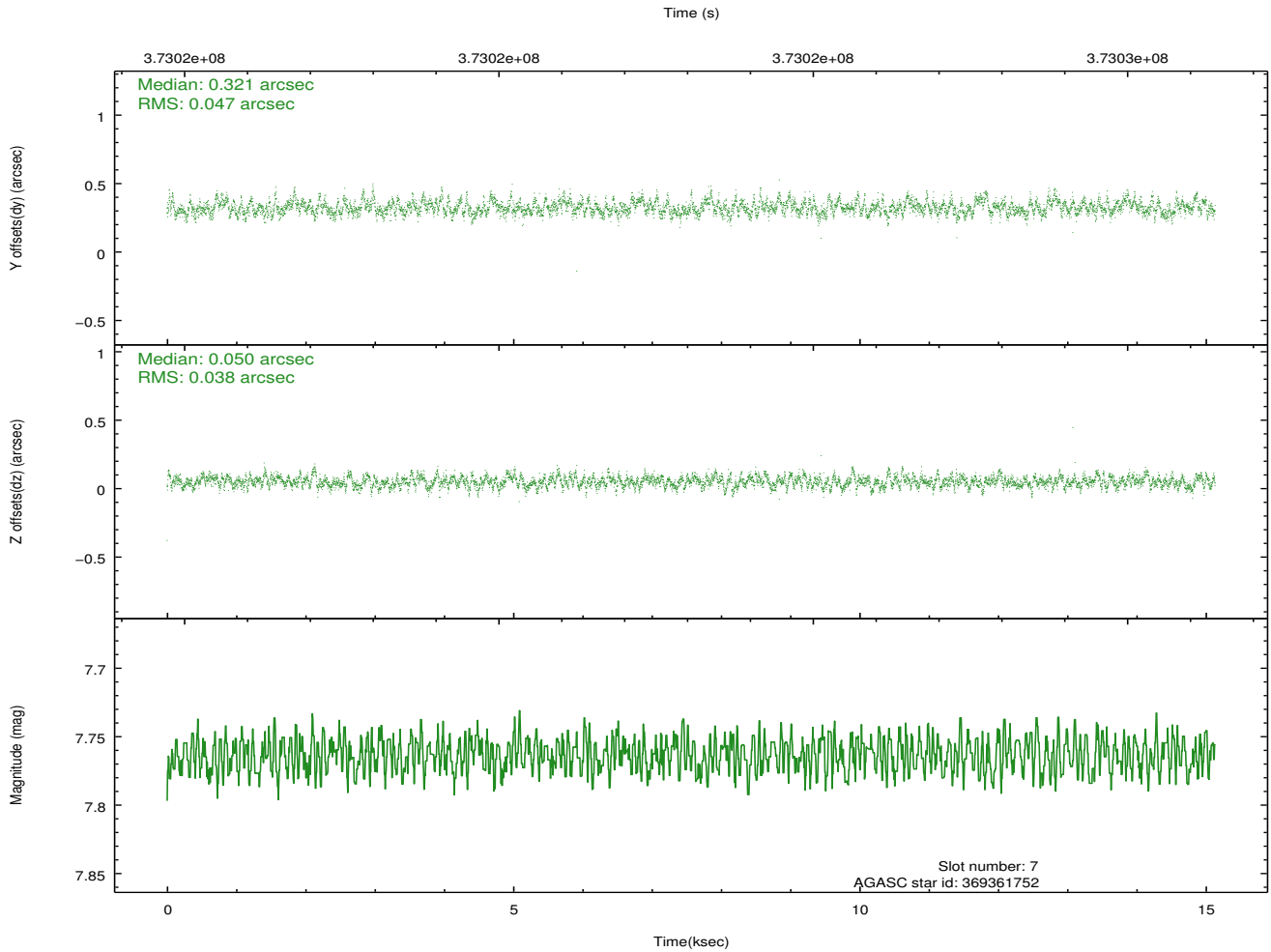
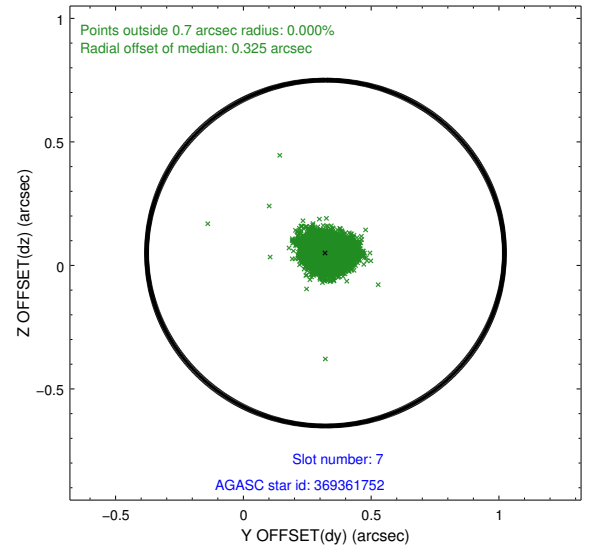
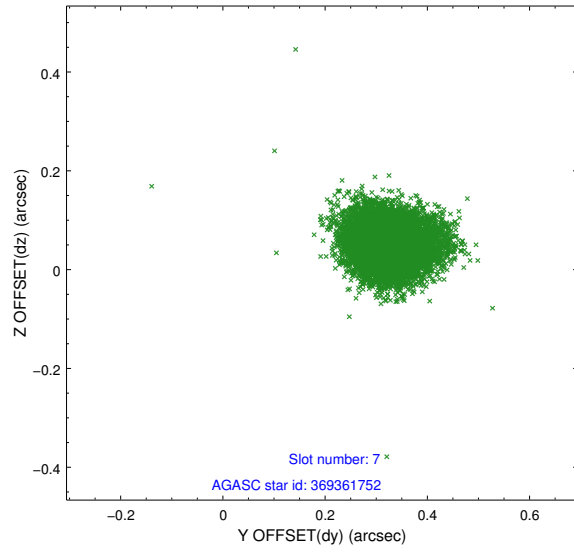
Time (s)



2.4.4 Slot 6

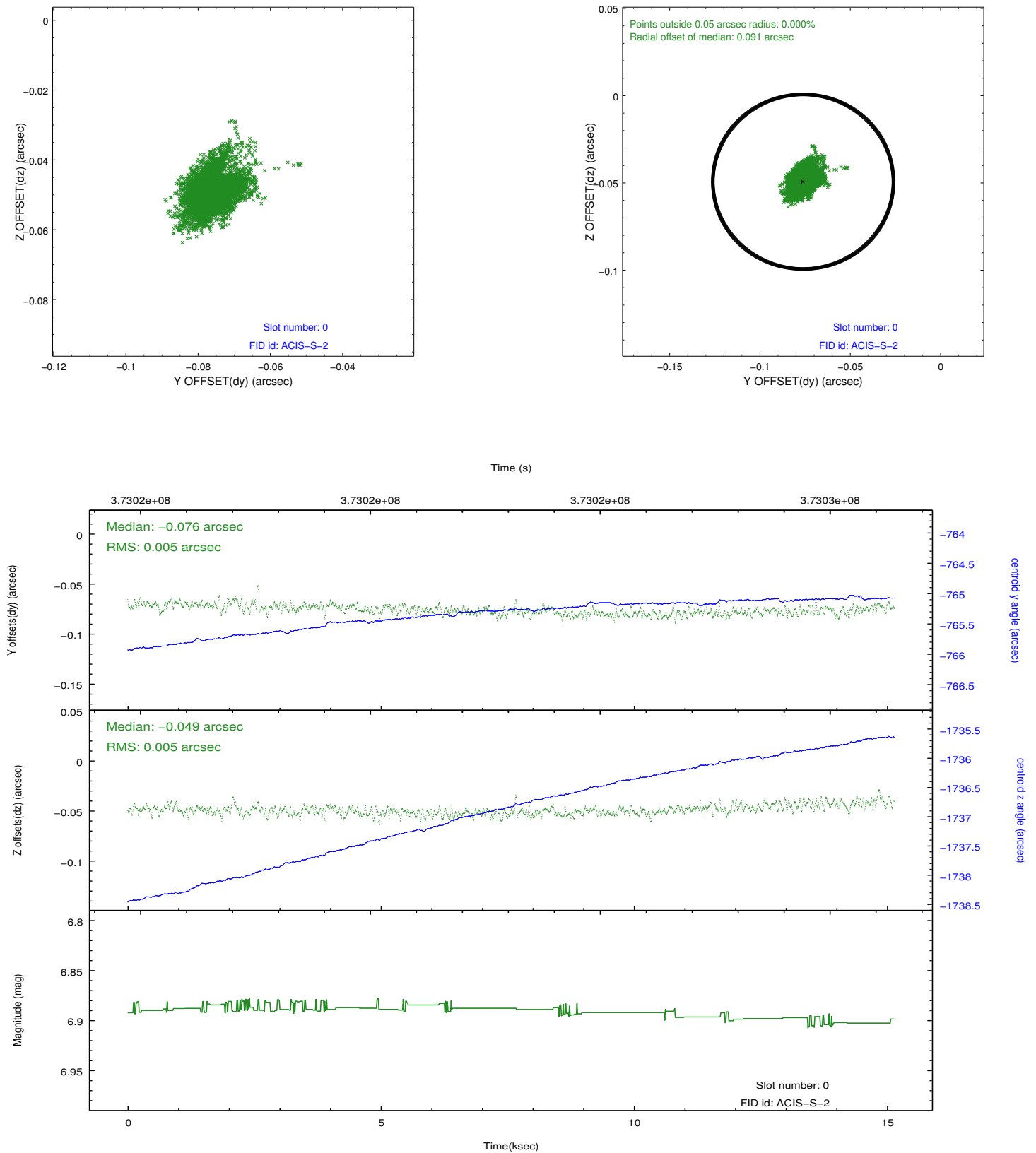


2.4.5 Slot 7

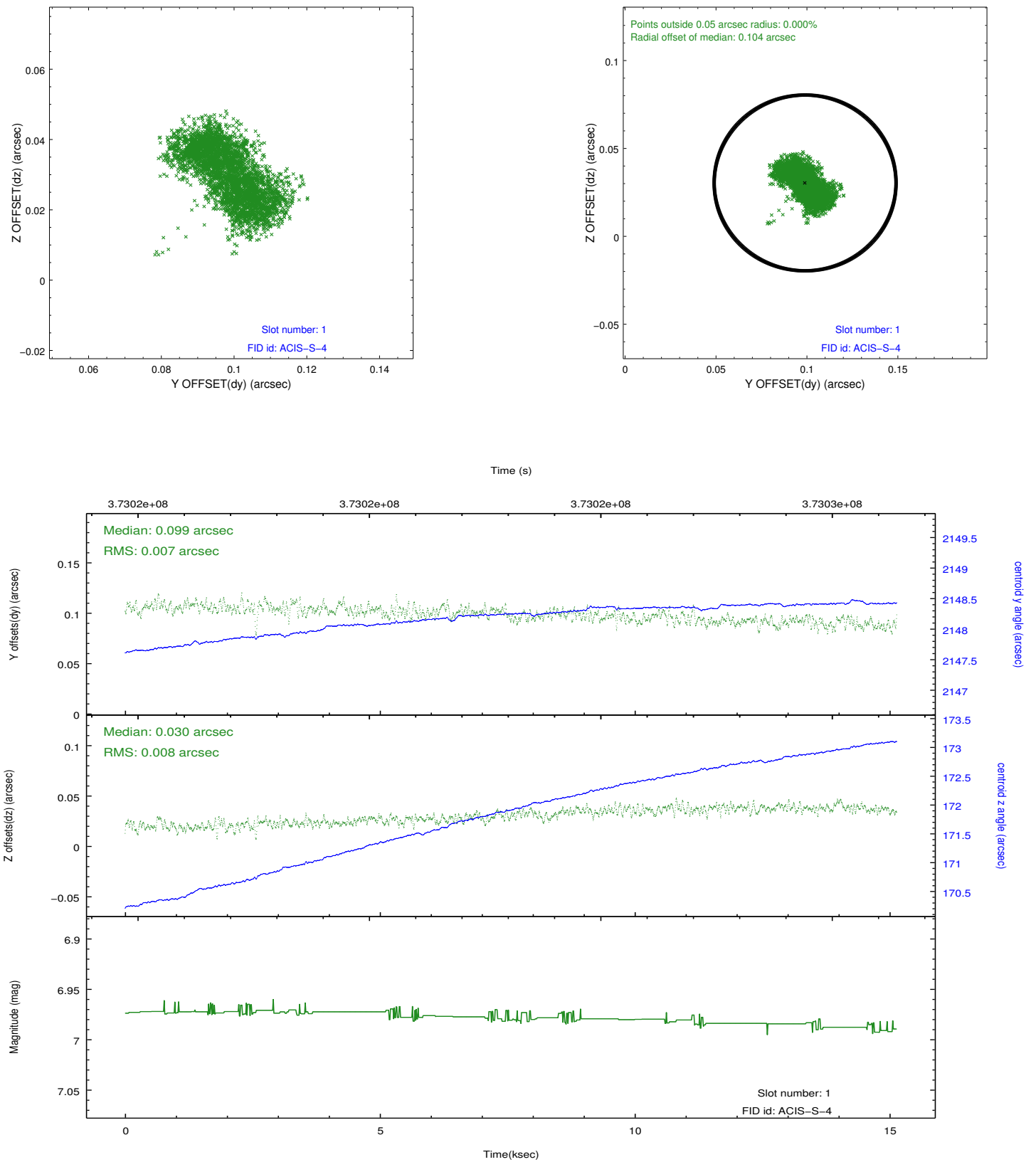


2.5 FID Slots

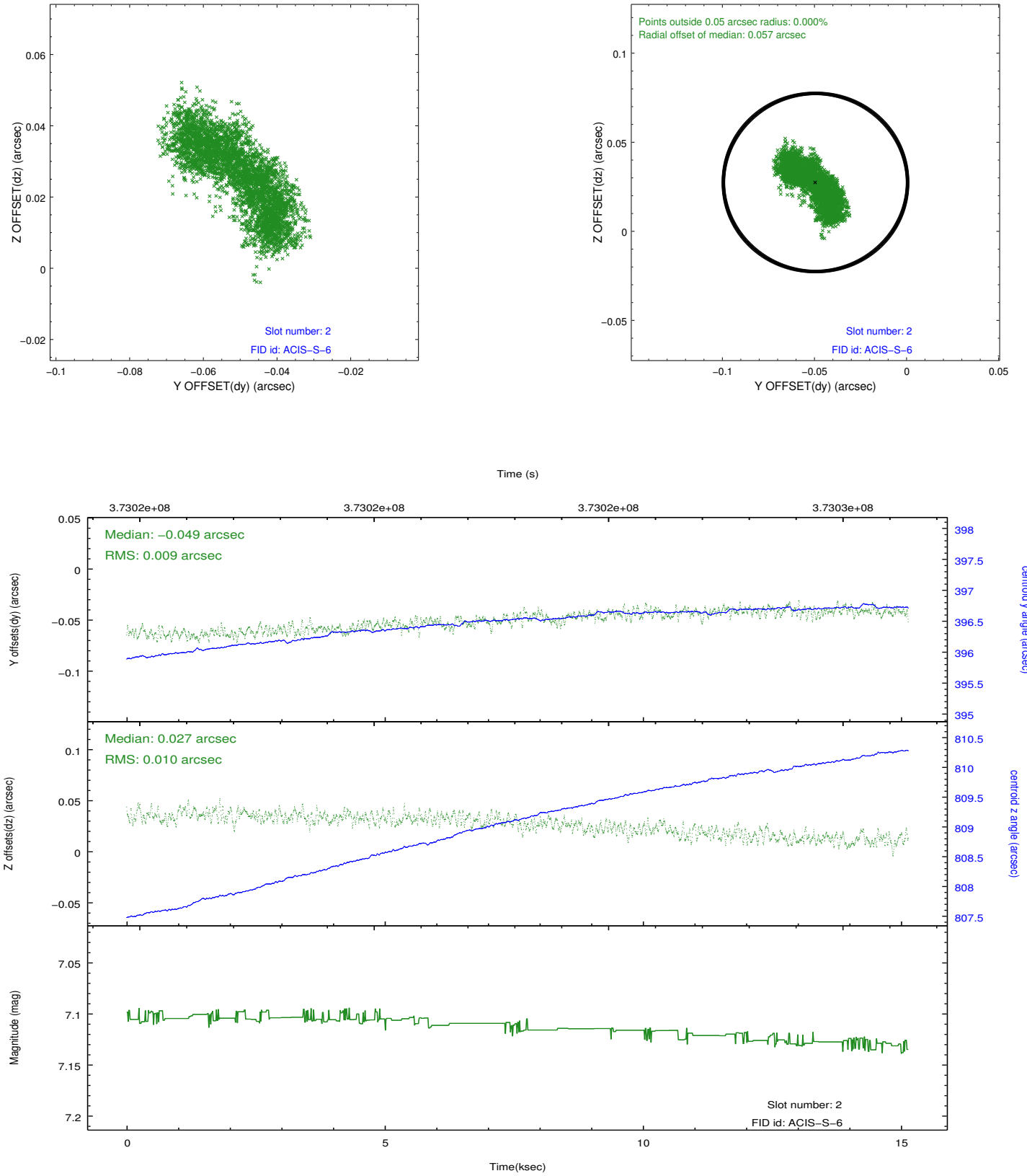
2.5.1 Slot 0



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)	2012.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.134699742198

A.2 Comments

Phase constraint met.