

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12371 - L2 Version 2
Chandra X-Ray Center

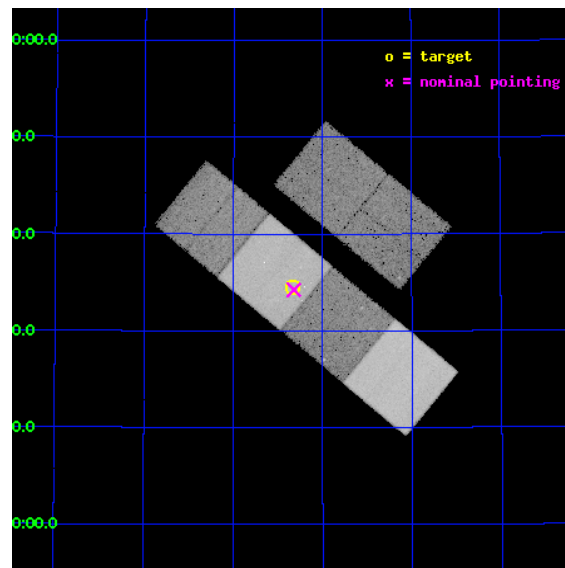
L2 Processing Date : Jul 6 2012

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

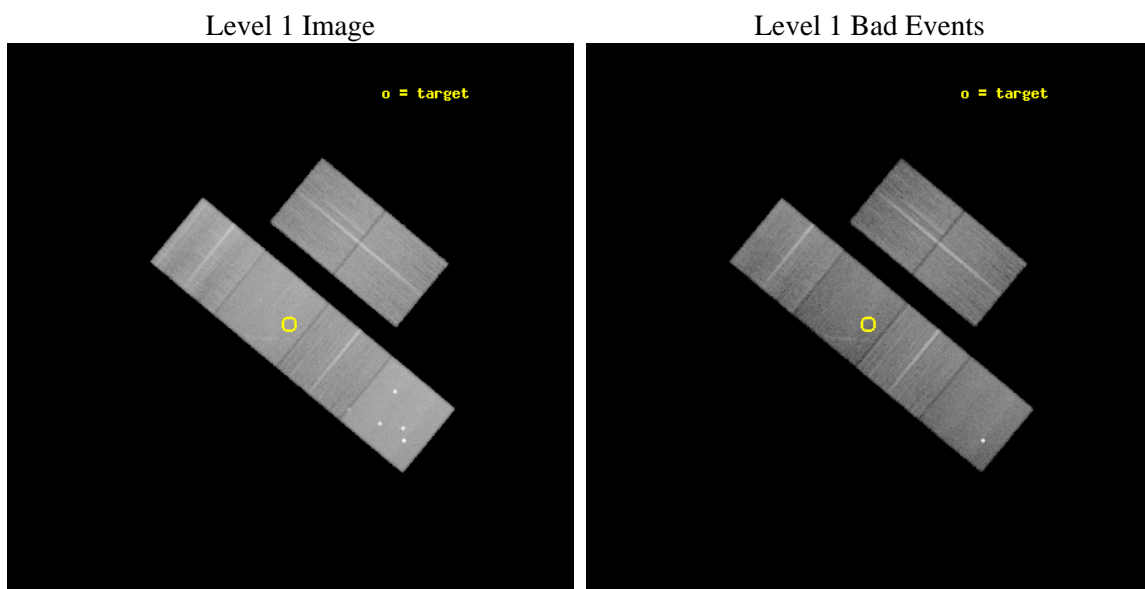
seq_num	200705	Sequence number
obs_id	12371	Observation id
title	X-rays from Planetary Nebulae: Unveiling Binarity, Magnetic Fields, and Wind Collisions	Proposal title
observer	Dr. Joel Kastner	Principal investigator
object	M 76	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	25.582917	Observer's specified target RA [deg]
dec_targ	51.575306	Observer's specified target Dec [deg]
ra_nom	25.580441025704	Nominal RA [deg]
dec_nom	51.570718751975	Nominal Dec [deg]
roll_nom	219.61467398117	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30284.79988724	Sum of GTIs [s]
livetime	29901.31551575	Livetime [s]
ontime2	30284.79988724	Sum of GTIs [s]
ontime3	30284.79988724	Sum of GTIs [s]
ontime5	30284.79988724	Sum of GTIs [s]
ontime6	30284.79988724	Sum of GTIs [s]
ontime7	30284.79988724	Sum of GTIs [s]
ontime8	30284.79988724	Sum of GTIs [s]
l2events	364746	Number of level 2 events



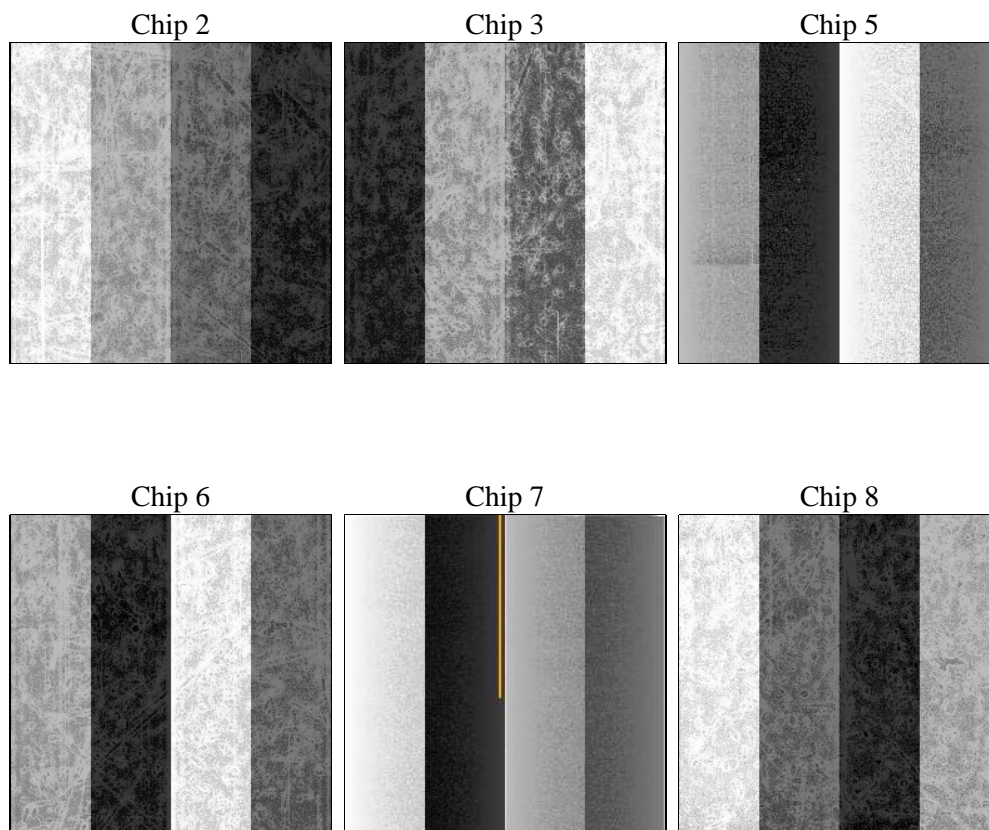
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30233.839000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30284.79988724	Sum of GTIs [s]
caldsver	4.5.0	 	ontime2	30284.79988724	Sum of GTIs [s]
date	2012-07-06T15:37:21	Date and time of file creation	ontime3	30284.79988724	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	30284.79988724	Sum of GTIs [s]
			ontime6	30284.79988724	Sum of GTIs [s]
			ontime7	30284.79988724	Sum of GTIs [s]
			ontime8	30284.79988724	Sum of GTIs [s]
			l1events	1531046	Number of level 1 events

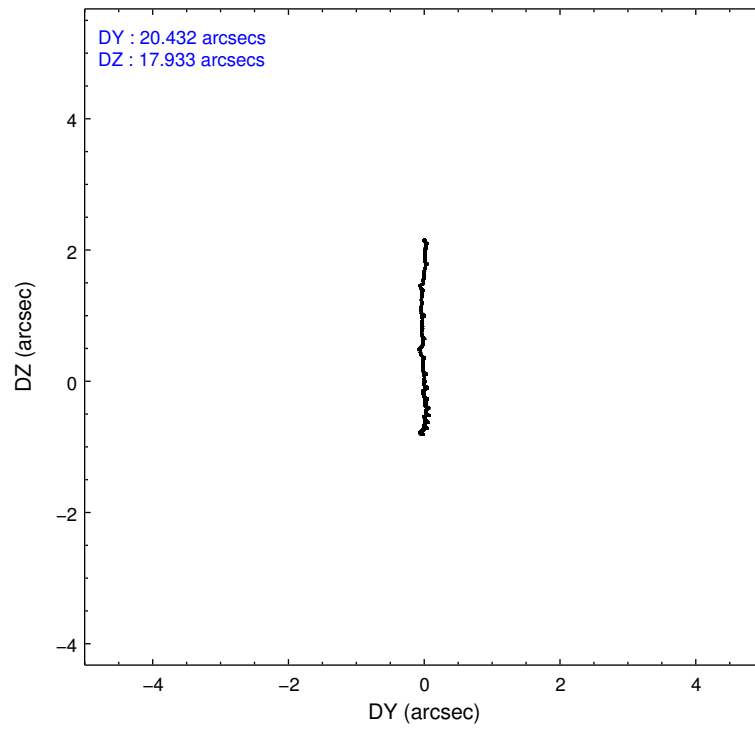
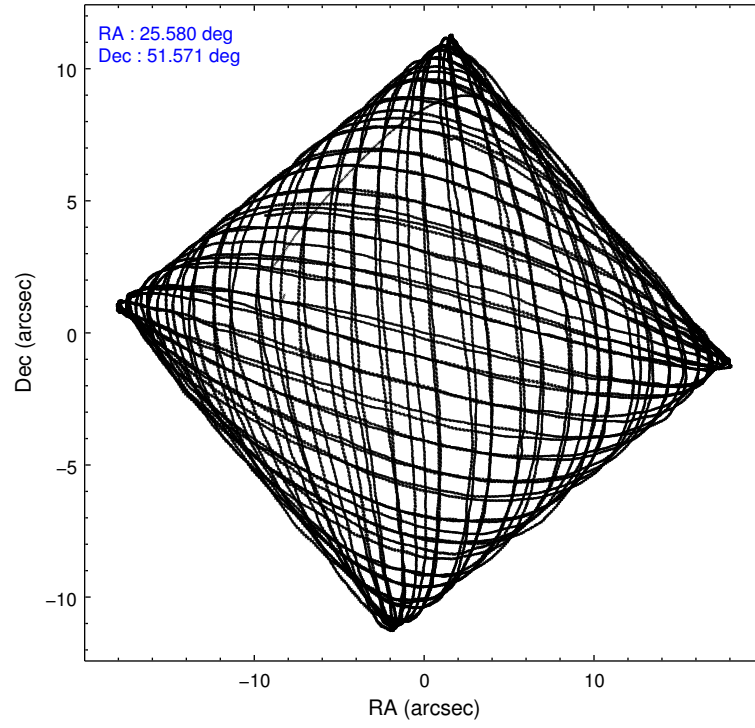
2.1.4 Events

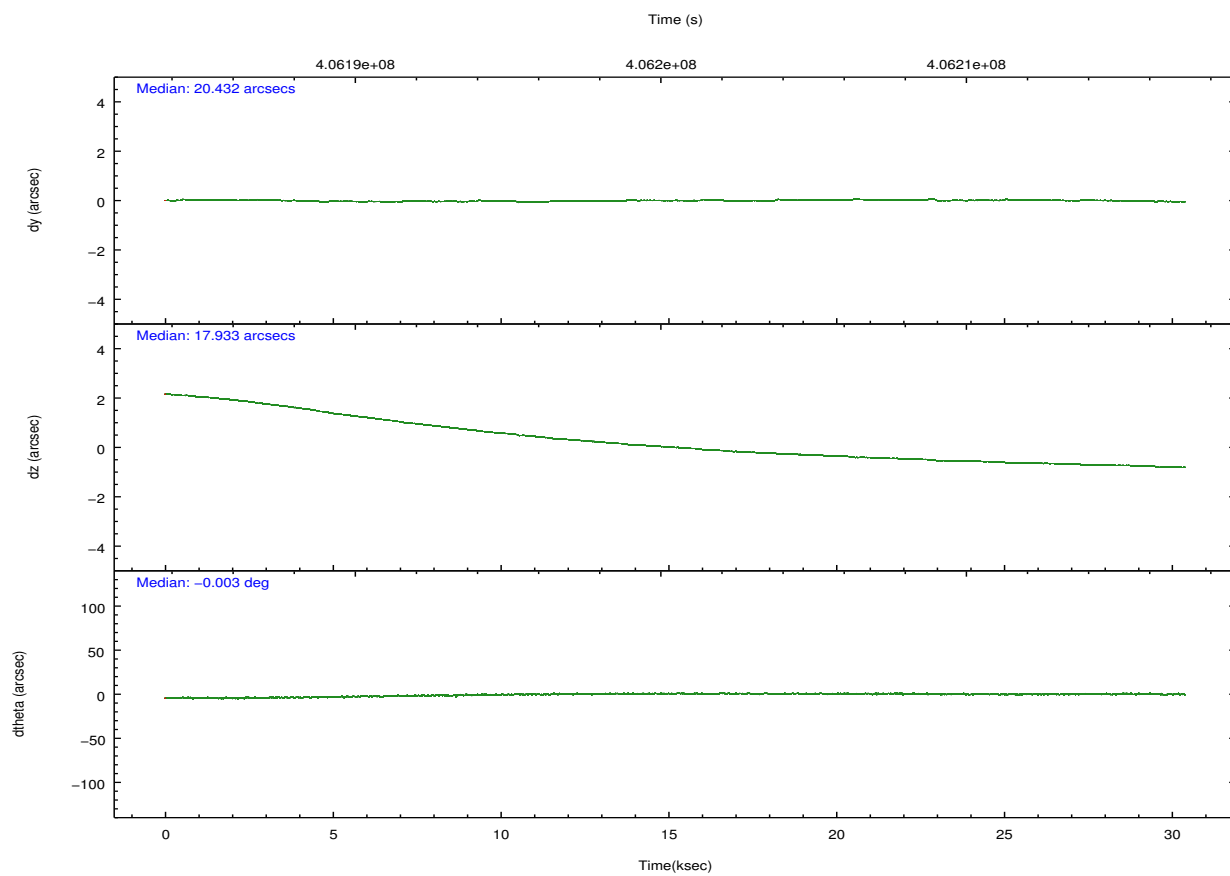
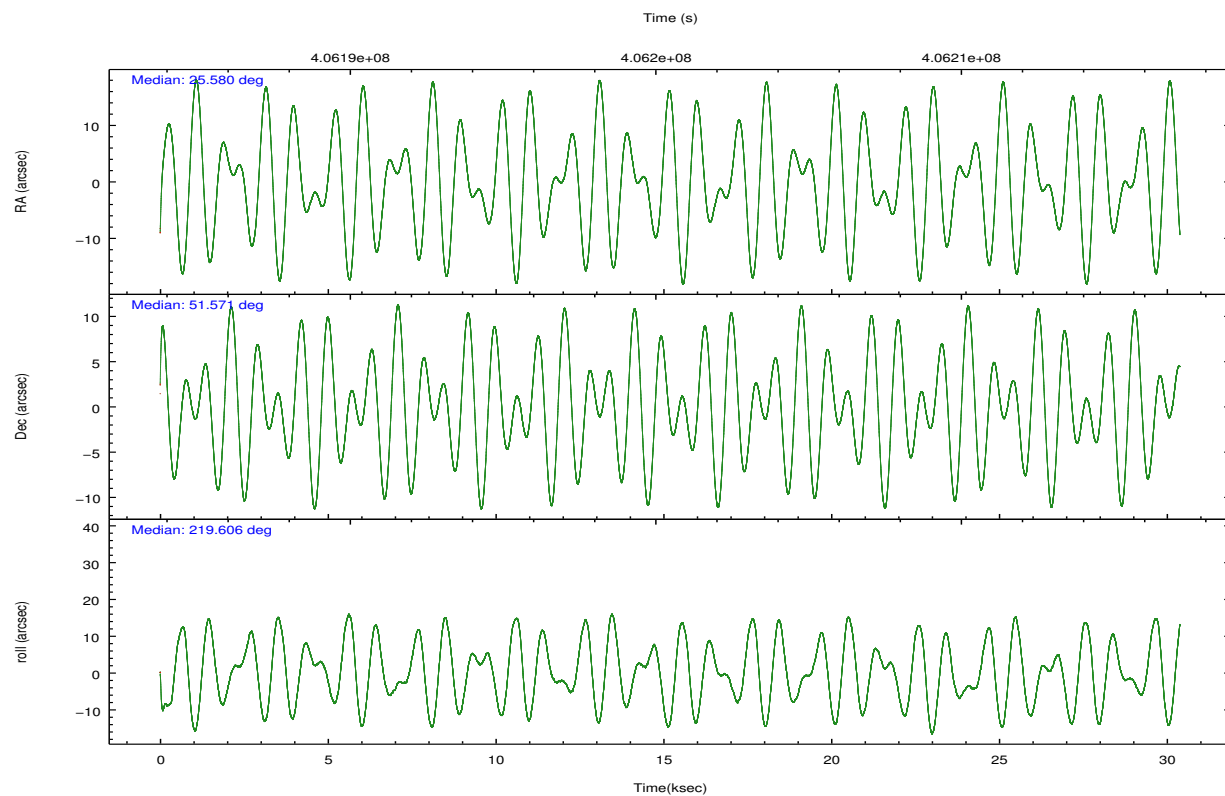
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	216364	202747	349684	216231	269021	276999	grade 0 events	9089	8345	30022	9631	11533	22306
rejected events	191896	179893	170388	190225	144982	202737		4%	4%	8%	4%	4%	8%
rejected %	88%	88%	48%	87%	53%	73%	grade 1 events	122	126	564	121	336	225
								0%	0%	0%	0%	0%	0%
							grade 2 events	5877	4933	50937	5645	25712	17341
								2%	2%	14%	2%	9%	6%
							grade 3 events	2464	2325	6363	2615	11025	7662
								1%	1%	1%	1%	4%	2%
							grade 4 events	2430	2440	5982	2564	10701	7073
								1%	1%	1%	1%	3%	2%
							grade 5 events	8698	9734	25866	9933	27237	13919
								4%	4%	7%	4%	10%	5%
							grade 6 events	4610	4814	86028	5554	65094	19907
								2%	2%	24%	2%	24%	7%
							grade 7 events	183074	170030	143922	180168	117383	188566
								84%	83%	41%	83%	43%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	25.595177	25.58044102570432	CCD I2 on	O4	Y
[deg] Pointing Dec	51.596467	51.57071875197499	CCD I3 on	O5	Y
[deg] Pointing Roll	219.446496	219.6146739811695	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O2	Y
[s] Observation start time (MET)	406185420.184000	406184202.11406	CCD S5 on	N	N
Observation start date	2010-11-15T05:15:54	2010-11-15T04:56:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	406215654.184000	406215880.25319	On-chip summing requested	N	N
Observation end date	2010-11-15T13:39:48	2010-11-15T13:44:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



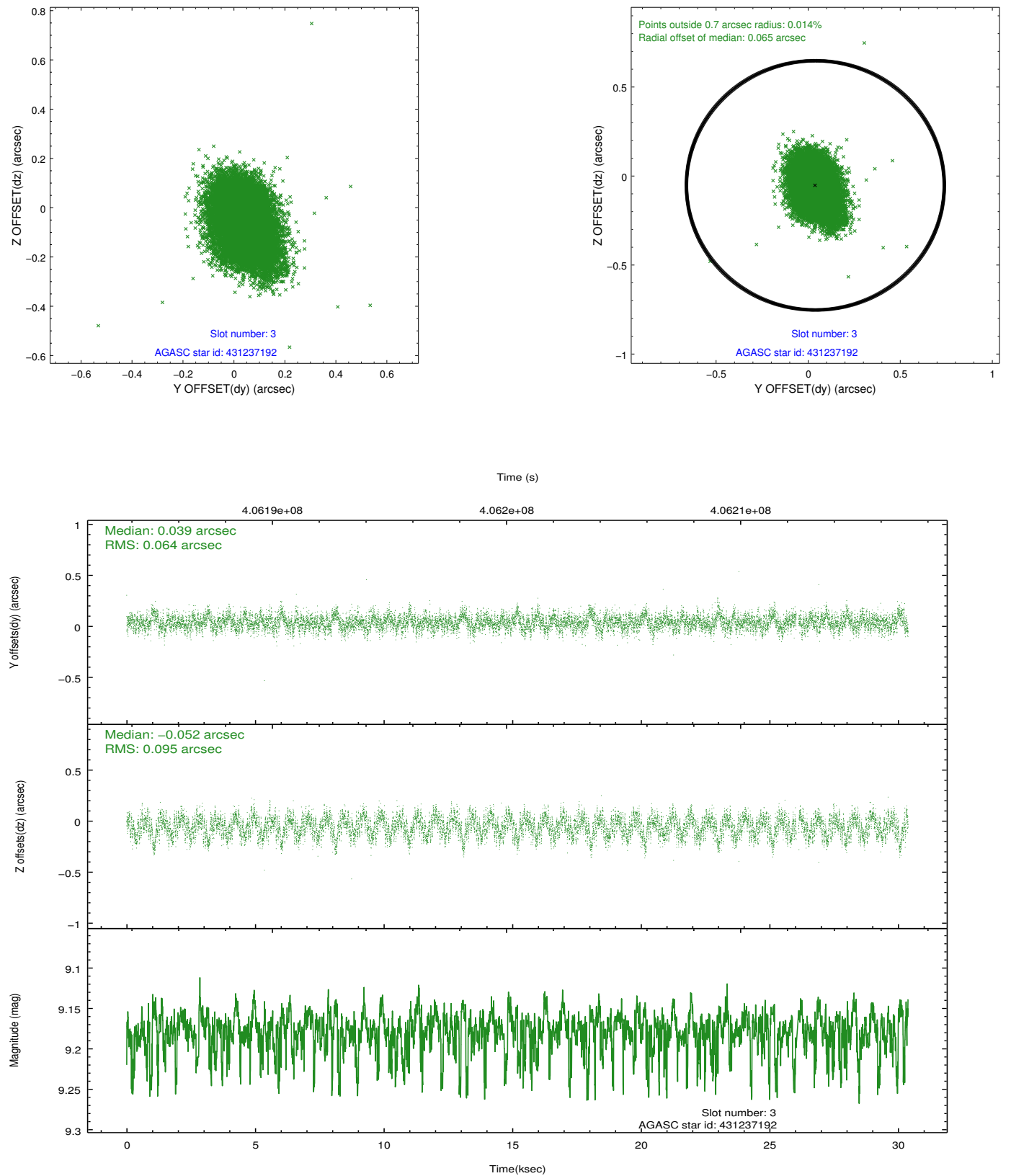


Slot Statistics

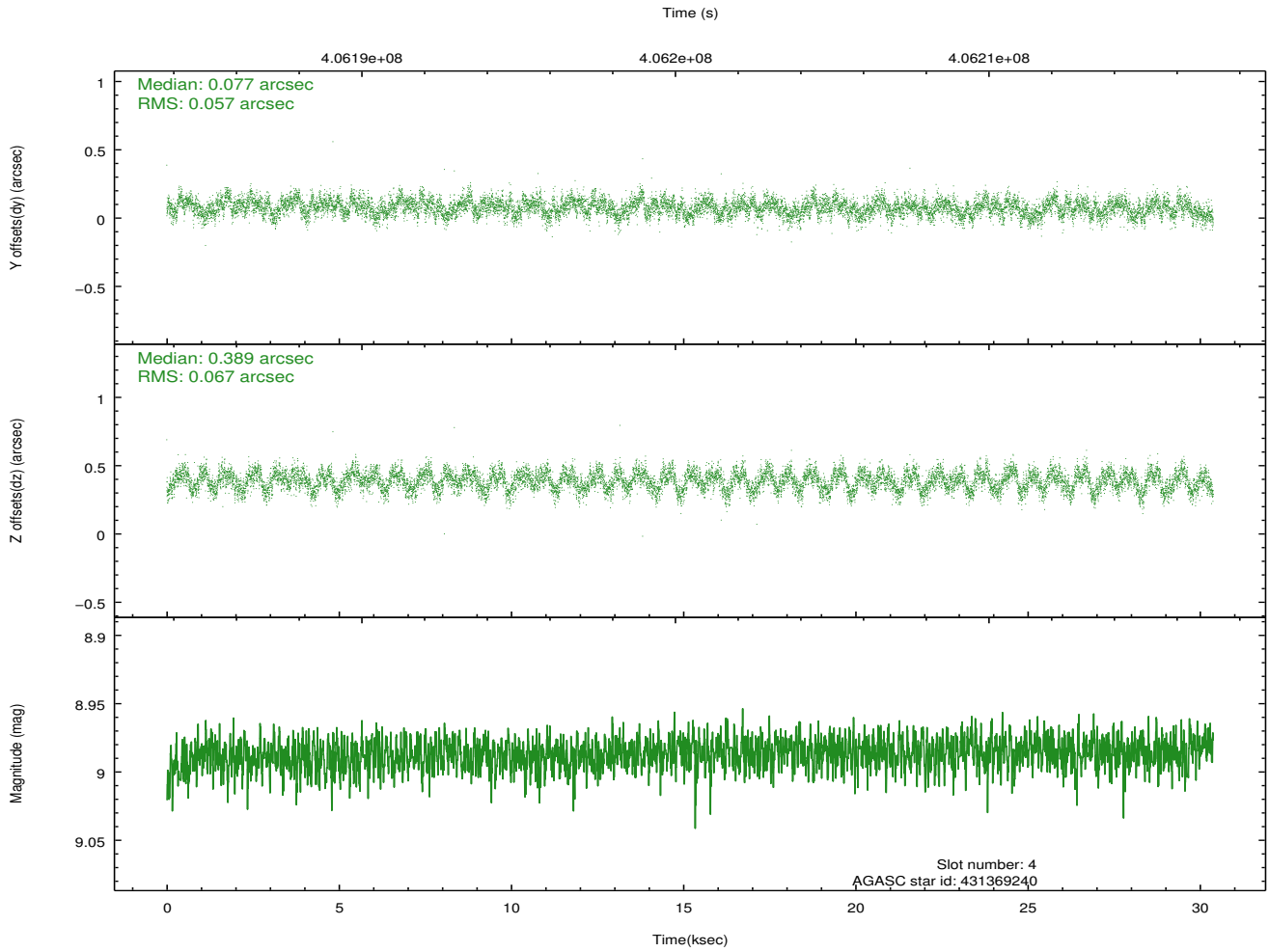
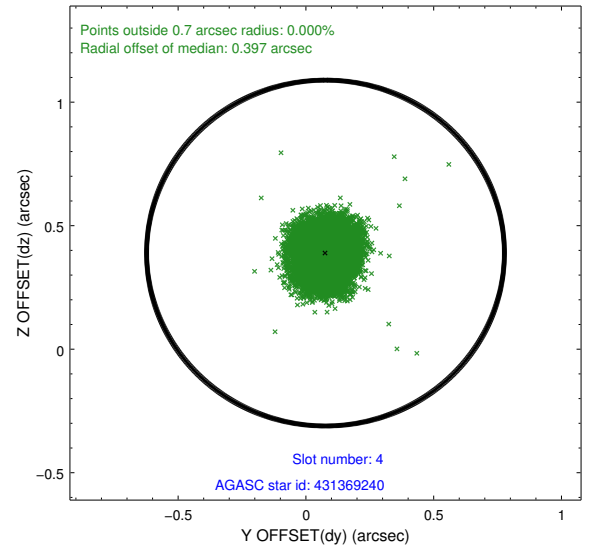
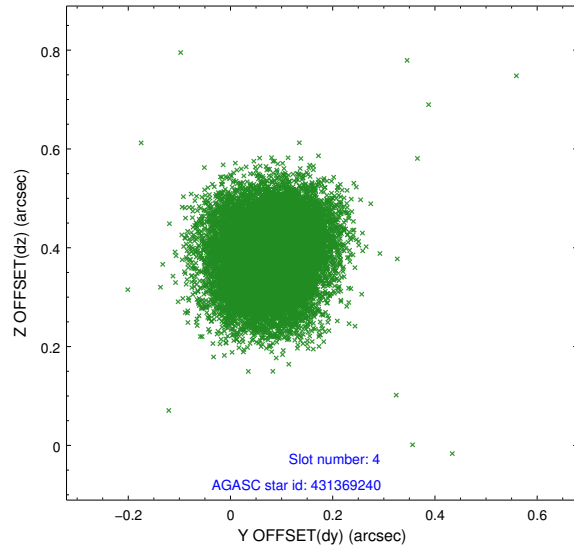
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	7410	-0.084	-0.037	0.014	0.030	0.000000	0.000000	-773.67	-1739.63
1	FID	ACIS-S-4	7.01	7412	0.193	0.051	0.010	0.017	0.000000	0.000000	2139.90	168.81
2	FID	ACIS-S-5	7.04	7411	-0.139	-0.004	0.011	0.028	0.000000	0.000000	-1826.43	162.57
3	GUIDE	431237192	9.18	14701	0.039	-0.052	0.121	0.196	25.080177	51.865045	267.86	-1476.80
4	GUIDE	431369240	8.99	14811	0.077	0.389	0.095	0.149	25.834507	52.370207	-2175.83	-1817.13
5	GUIDE	431369480	9.39	14796	0.088	0.044	0.122	0.202	25.680383	52.098715	-1293.85	-1276.49
6	GUIDE	431371512	8.07	14816	-0.142	-0.230	0.073	0.114	26.781989	51.537135	-1930.26	1836.41
7	GUIDE	431360824	9.41	14796	-0.064	-0.147	0.115	0.184	25.675715	50.895855	1461.30	2064.50

2.4 Star Slots

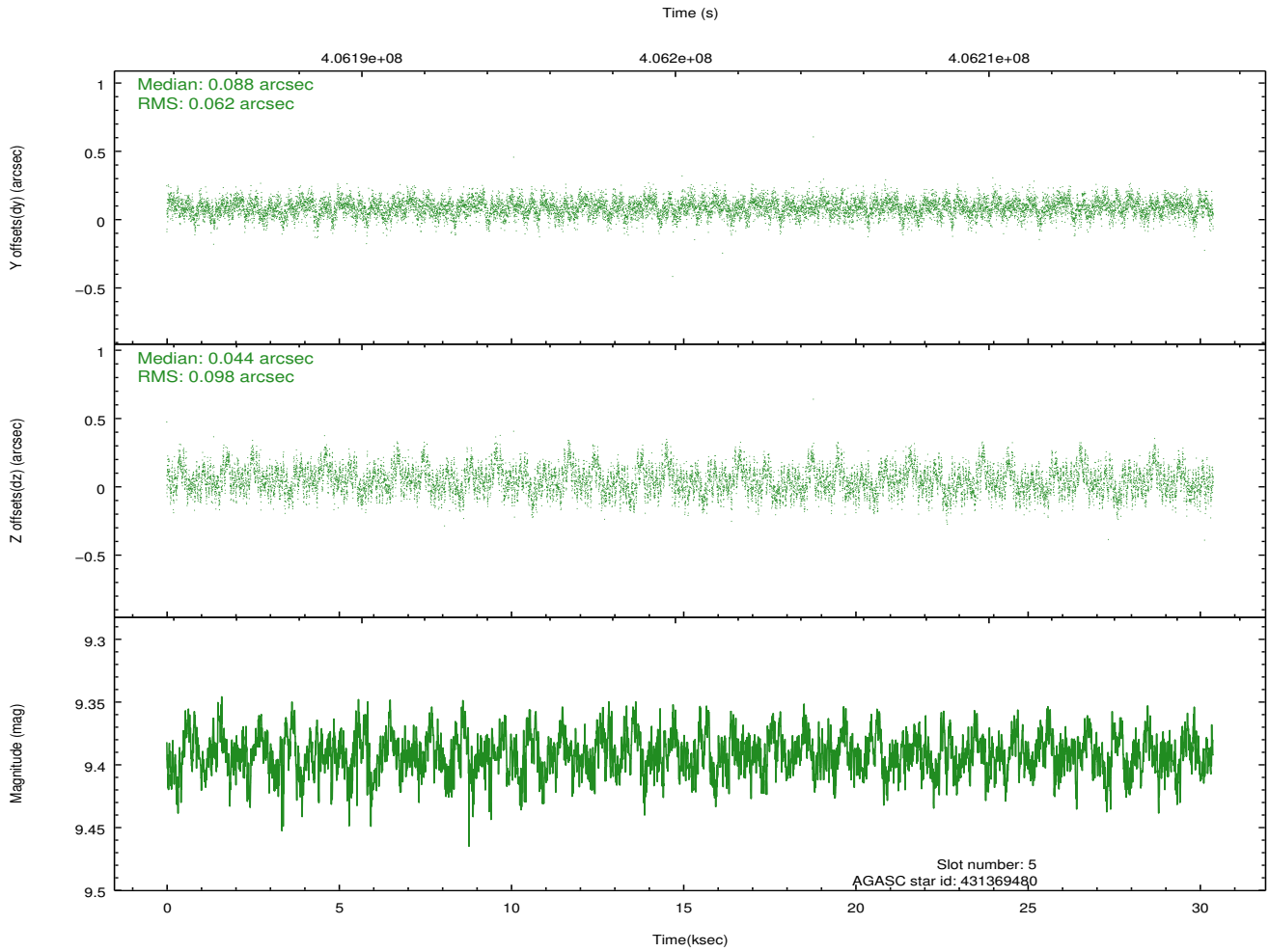
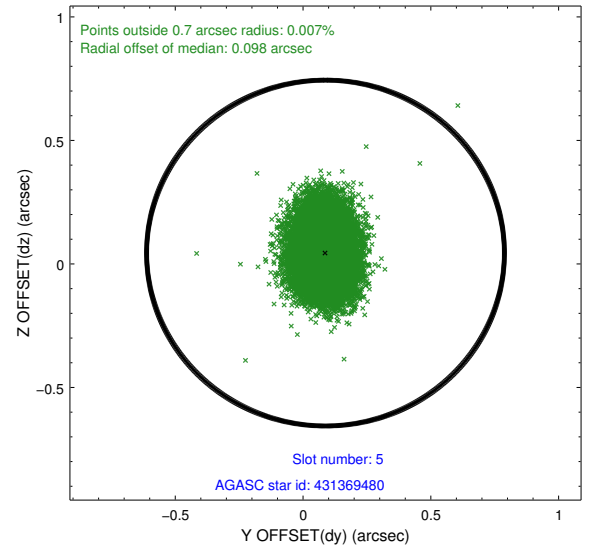
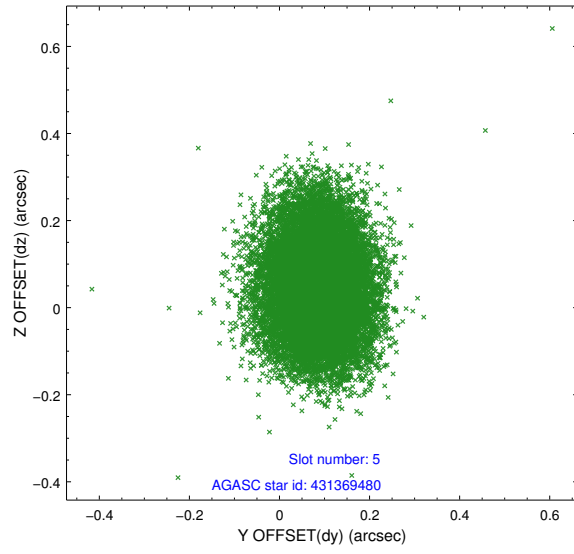
2.4.1 Slot 3



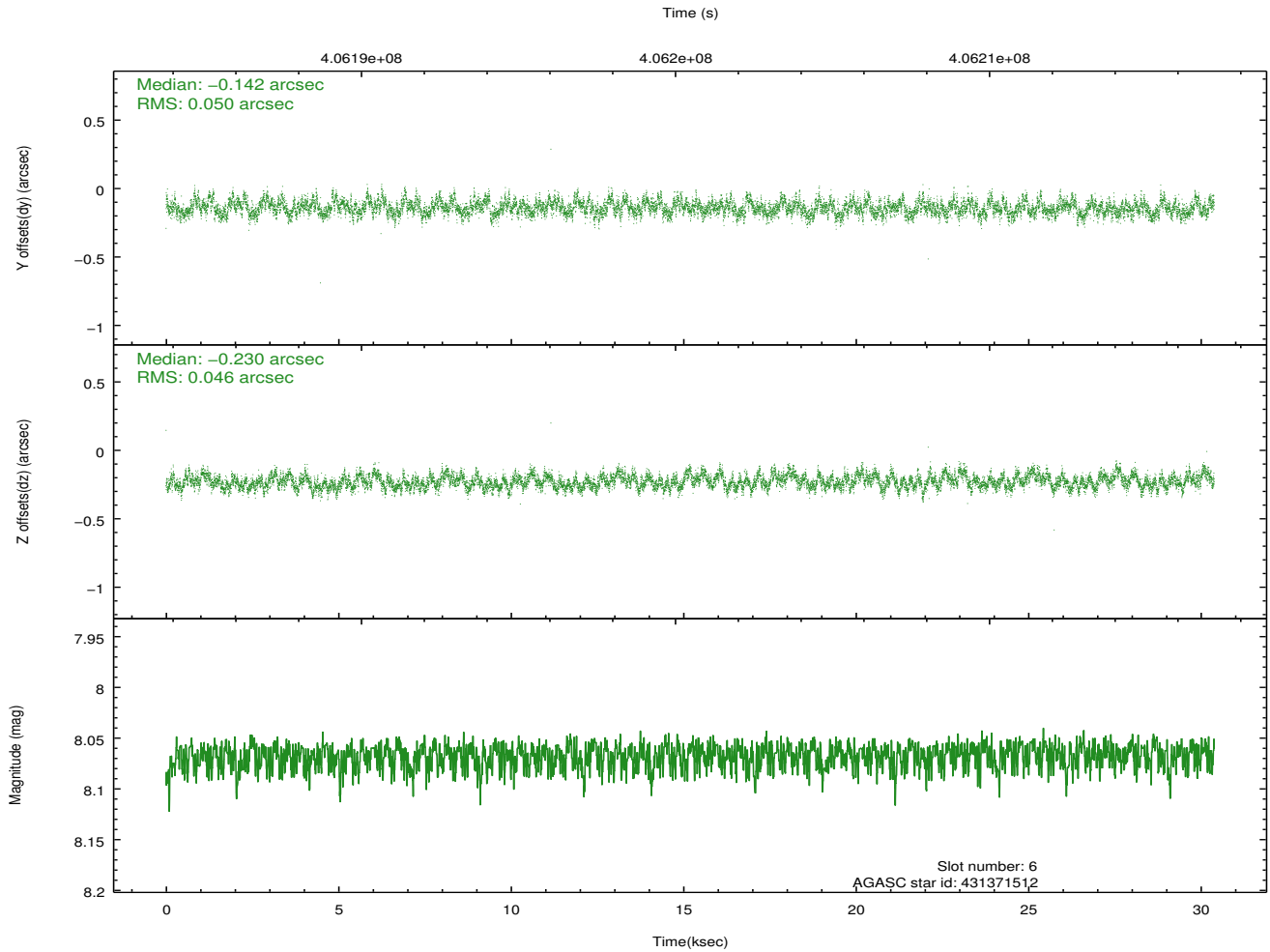
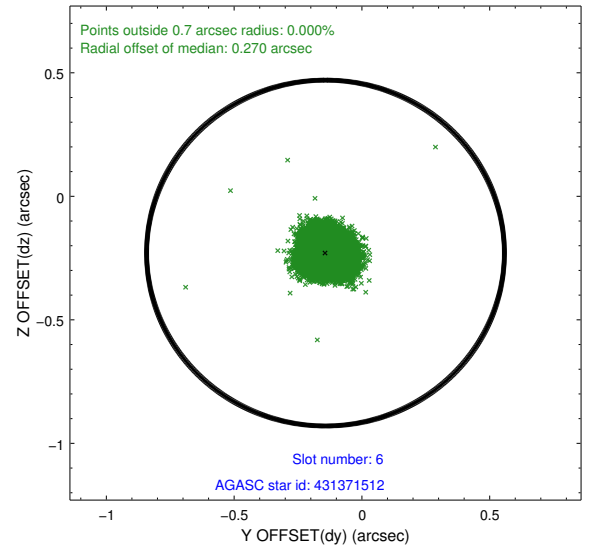
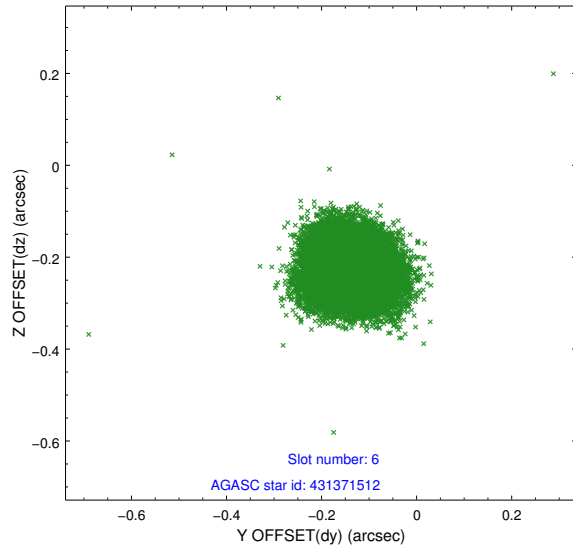
2.4.2 Slot 4



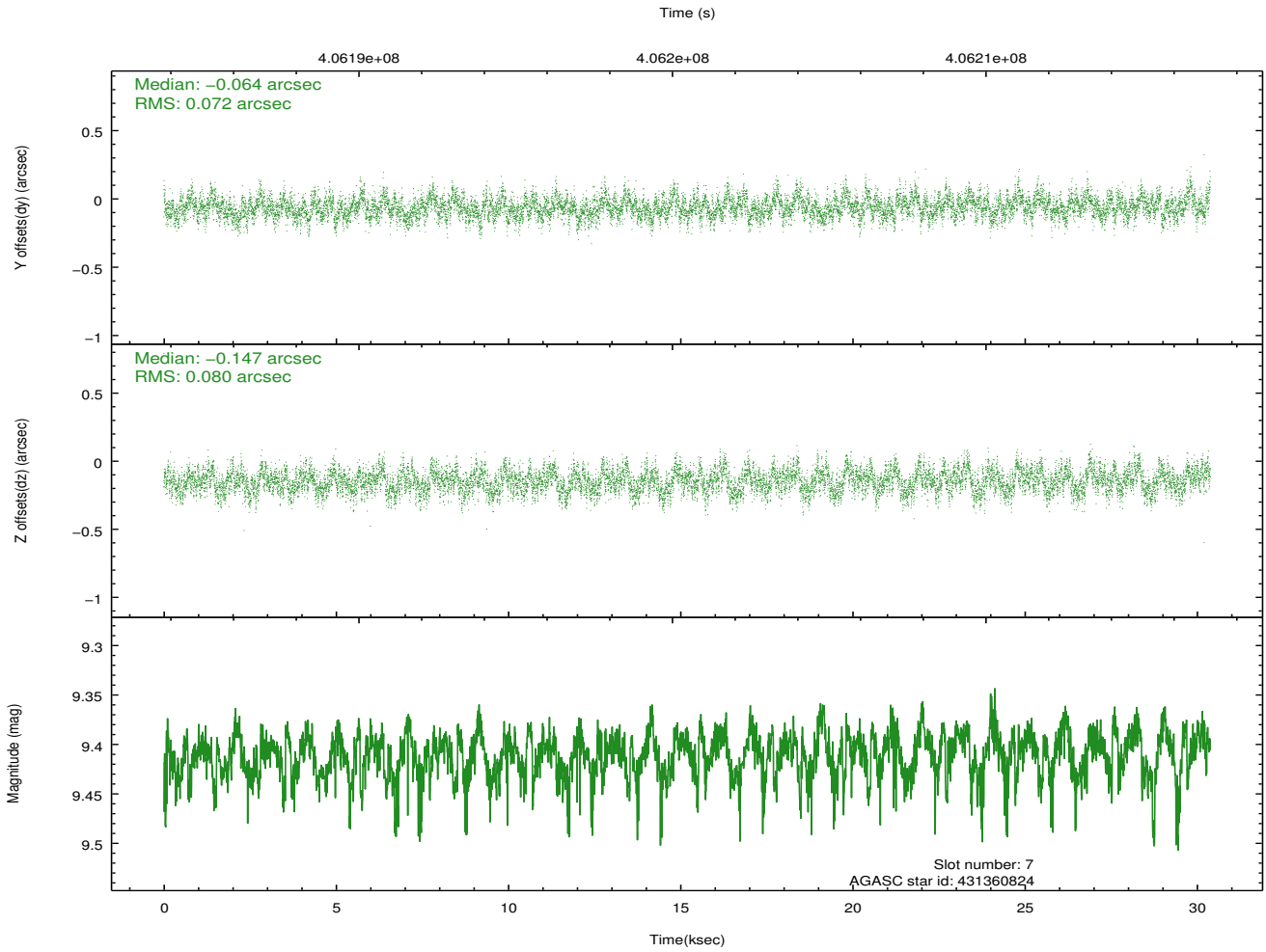
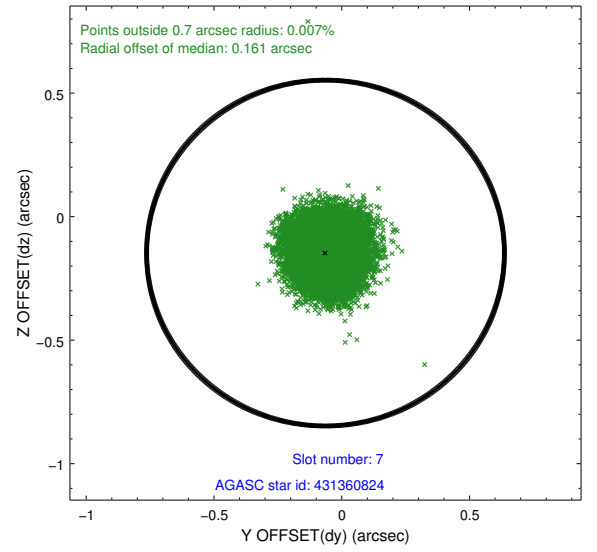
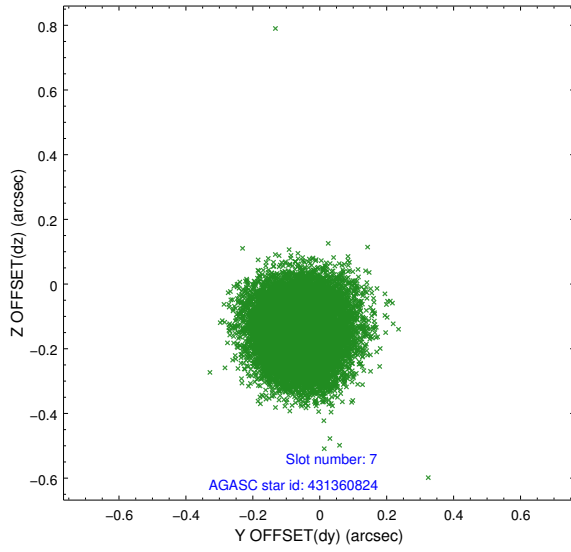
2.4.3 Slot 5



2.4.4 Slot 6

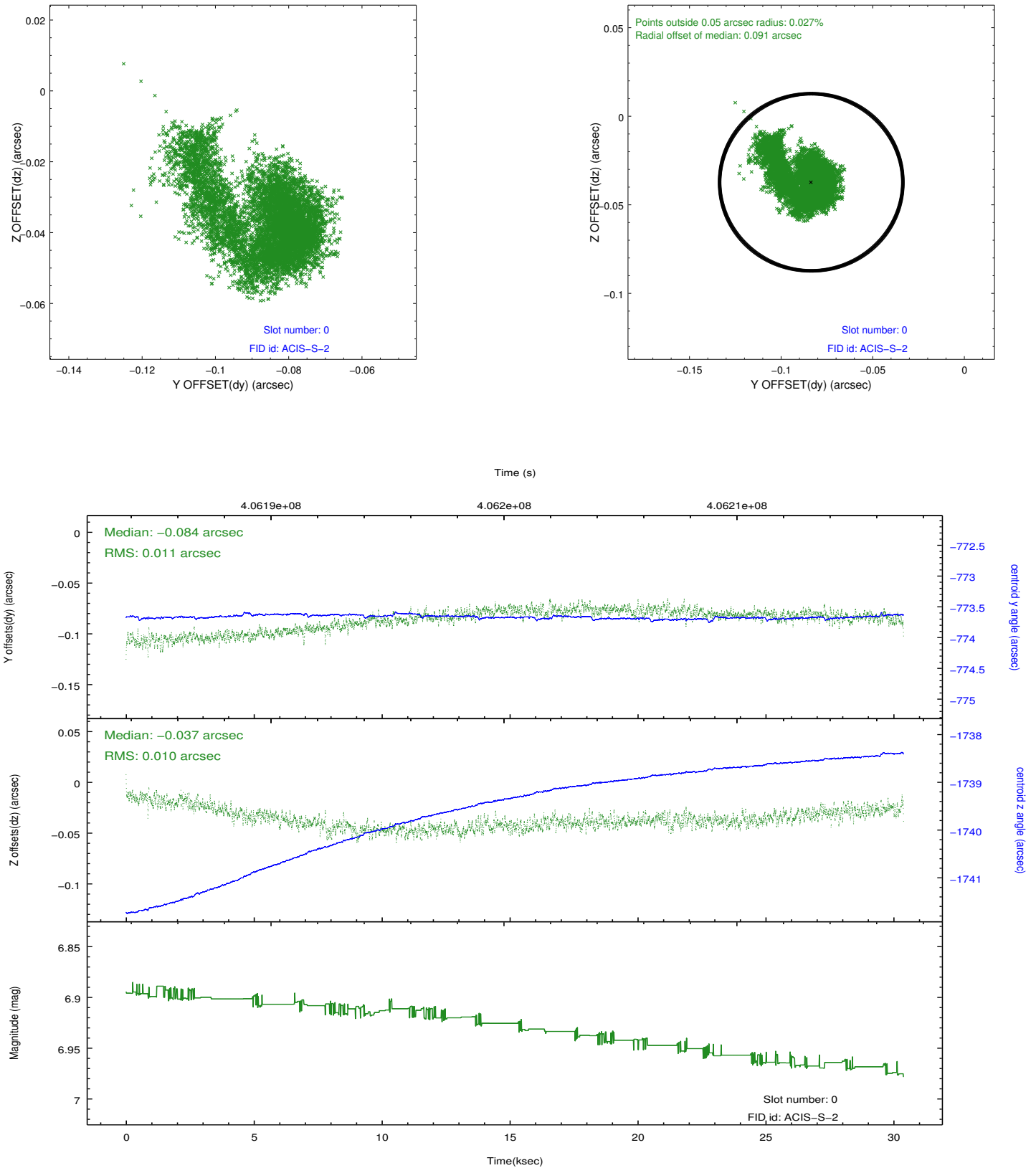


2.4.5 Slot 7

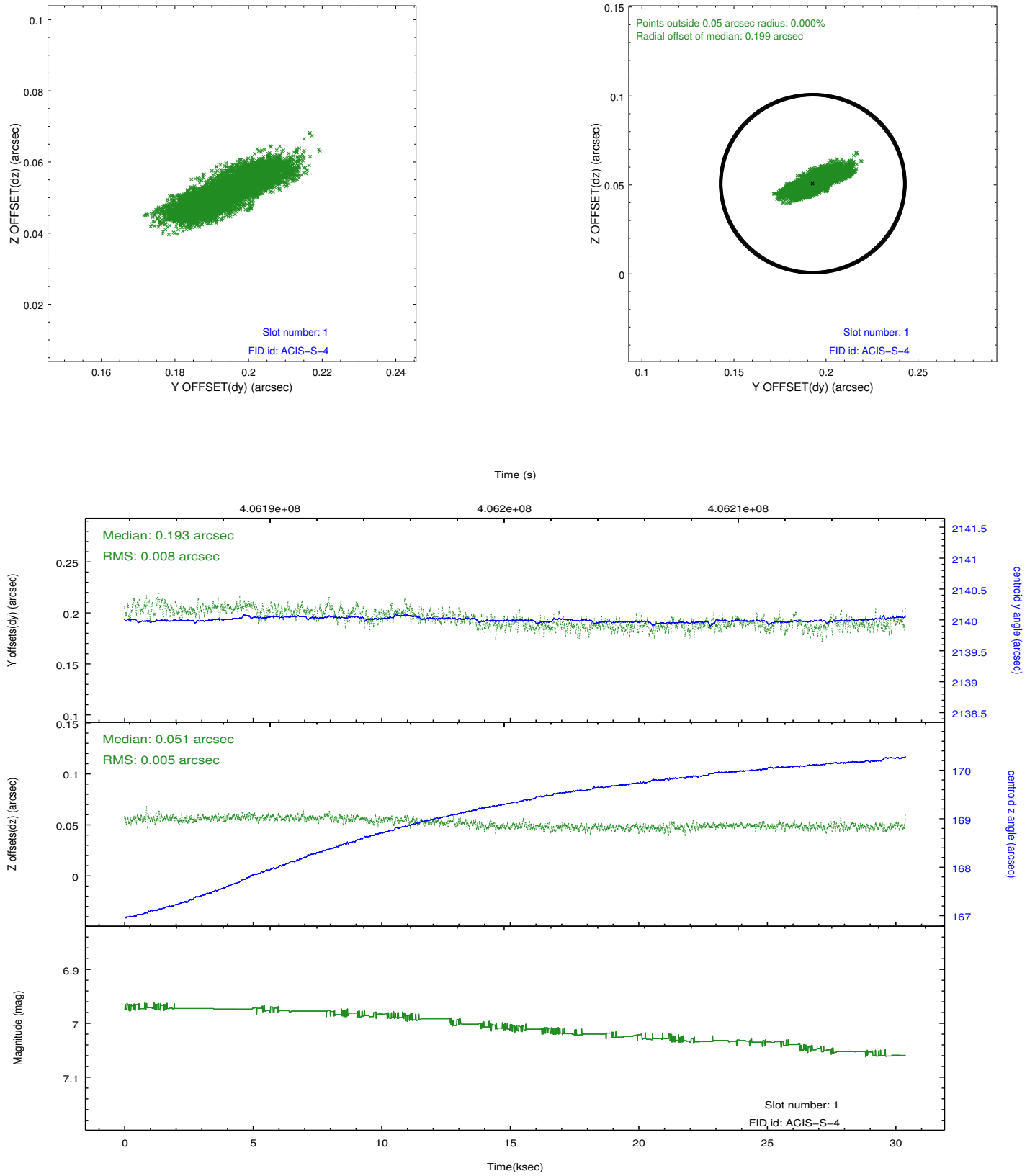


2.5 FID Slots

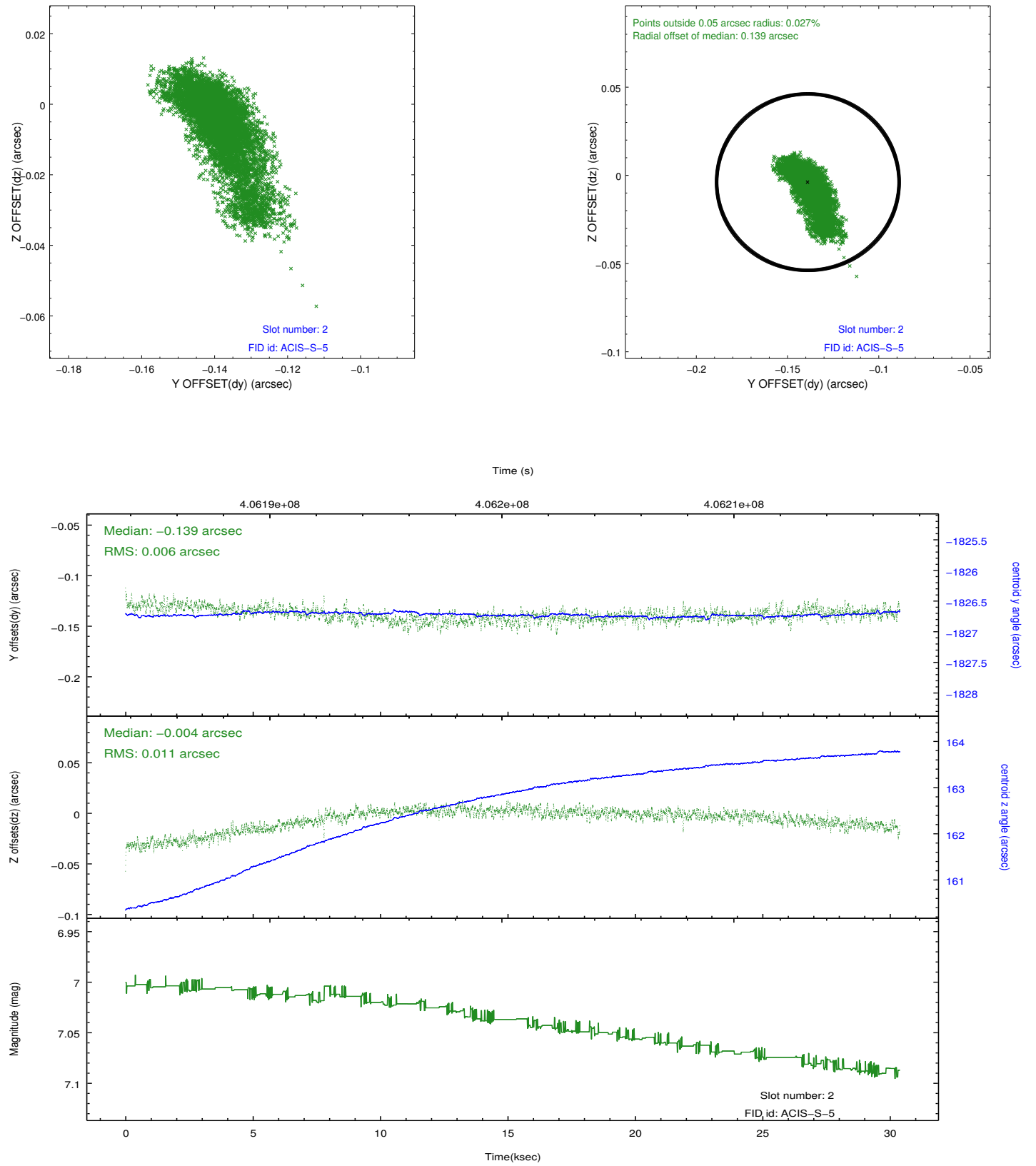
2.5.1 Slot 0



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)	2012.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.28479988724

A.2 Comments