

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5281 - L2 Version 3
Chandra X-Ray Center

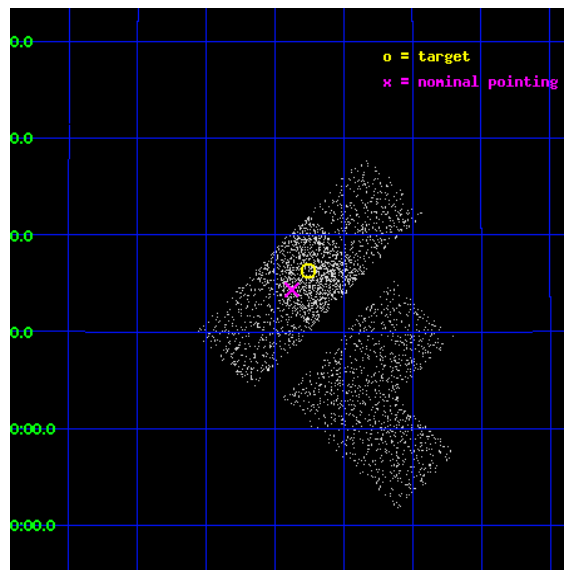
L2 Processing Date : Nov 8 2012

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

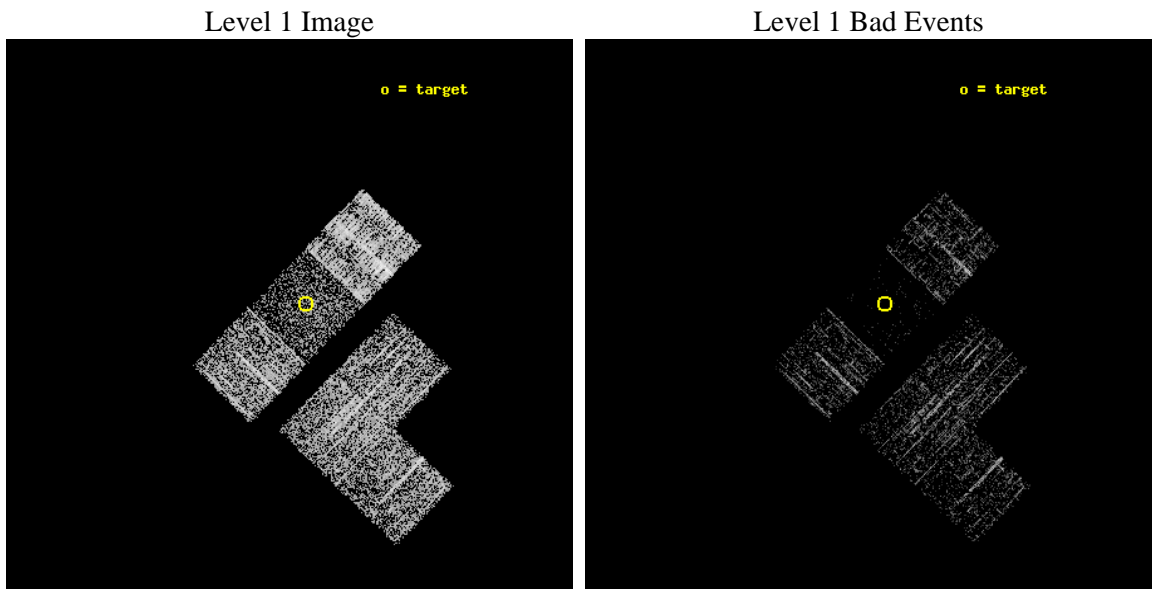
seq_num	100051	Sequence number
obs_id	5281	Observation id
title	High Resolution Imaging of the Source of Comet Encke's X-Rays Over One Nuclear Rotation	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	2P/Encke (2003)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.06439	Observer's specified target RA [deg]
dec_targ	16.27104	Observer's specified target Dec [deg]
ra_nom	287.09422862236	Nominal RA [deg]
dec_nom	16.239095183881	Nominal Dec [deg]
roll_nom	314.14827574682	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1974.3999926448	Sum of GTIs [s]
livetime	1949.398951097	Livetime [s]
ontime0	1974.3999926448	Sum of GTIs [s]
ontime2	1974.3999926448	Sum of GTIs [s]
ontime3	1974.3999926448	Sum of GTIs [s]
ontime6	1974.3999926448	Sum of GTIs [s]
ontime7	1974.3999926448	Sum of GTIs [s]
ontime8	1974.3999926448	Sum of GTIs [s]
l2events	3649	Number of level 2 events



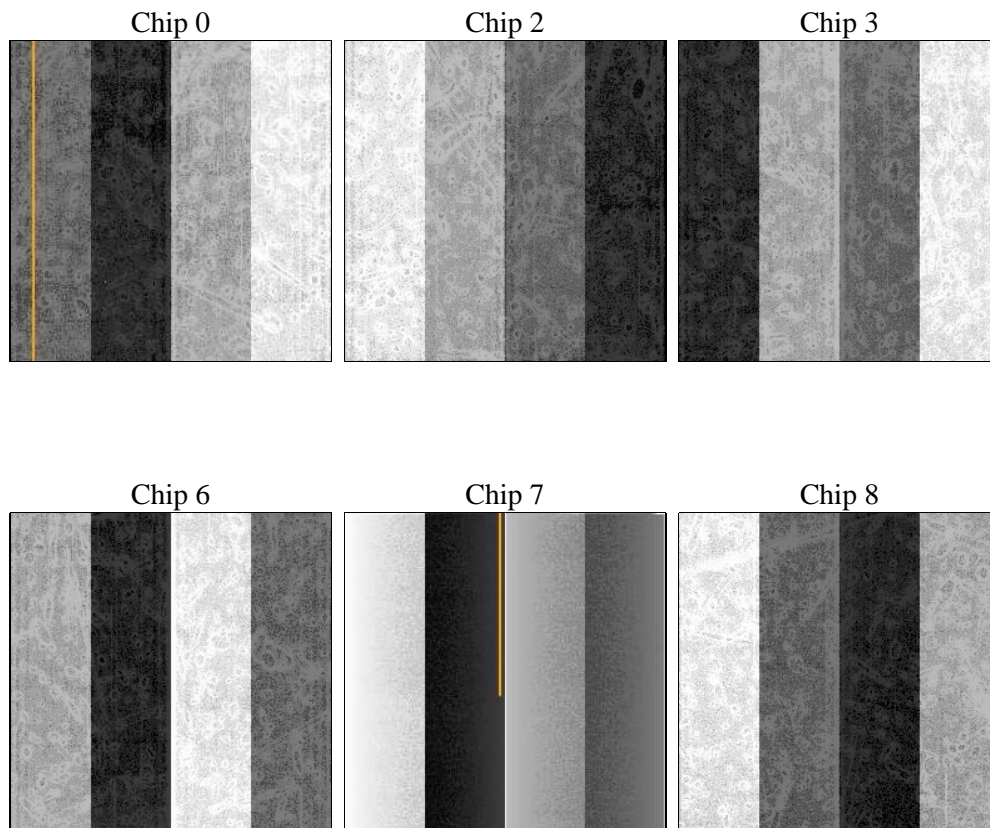
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1974.3999926448	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	1974.3999926448	Sum of GTIs [s]
date	2012-11-08T03:05:12	Date and time of file creation	ontime2	1974.3999926448	Sum of GTIs [s]
revision	3	Processing version of data	ontime3	1974.3999926448	Sum of GTIs [s]
			ontime6	1974.3999926448	Sum of GTIs [s]
			ontime7	1974.3999926448	Sum of GTIs [s]
			ontime8	1974.3999926448	Sum of GTIs [s]
			l1events	47129	Number of level 1 events

2.1.4 Events

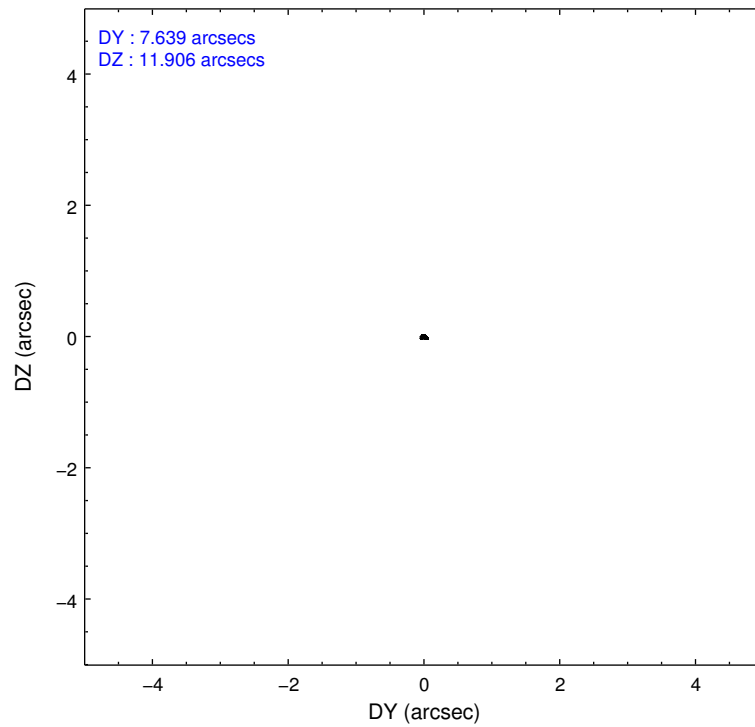
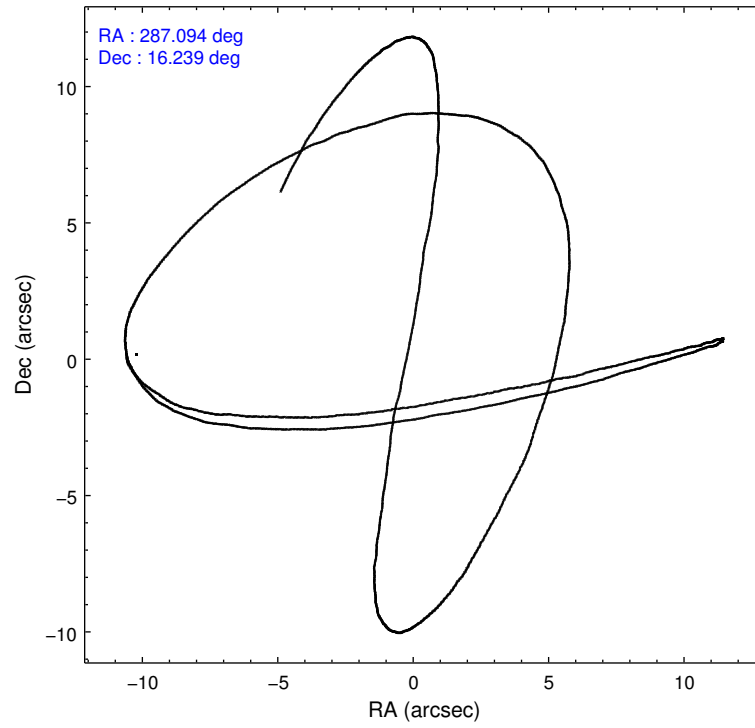
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6578	7976	7479	8014	2605	14477
rejected events	5949	7249	6999	7346	983	8234
rejected %	90%	90%	93%	91%	37%	56%

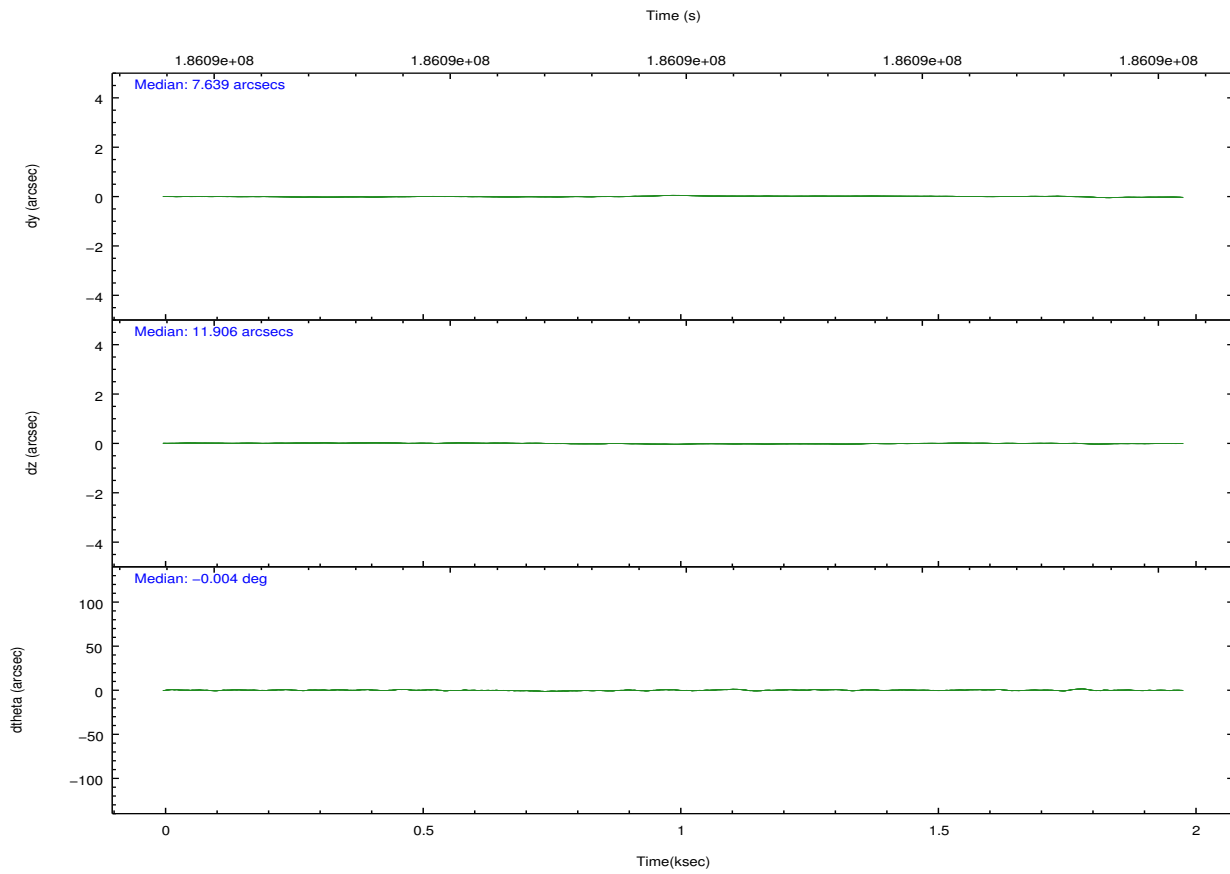
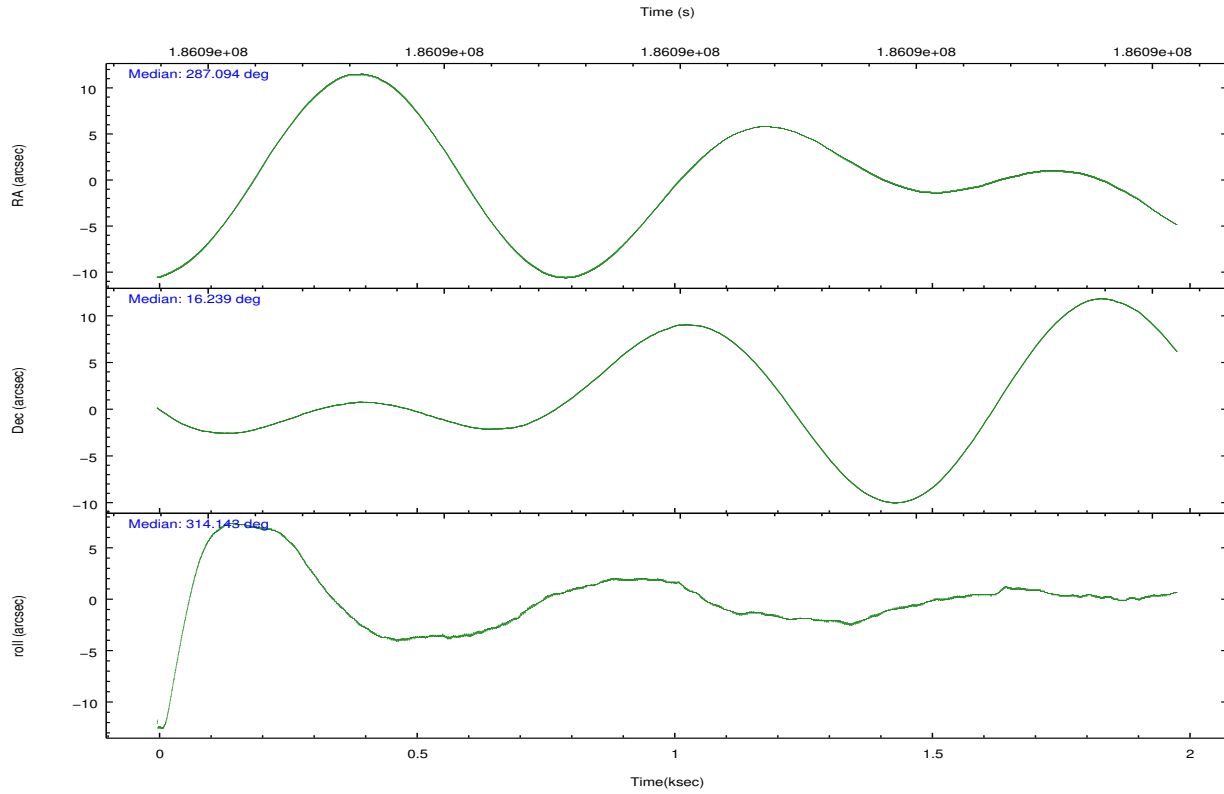
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	296	405	245	349	385	2125
	4%	5%	3%	4%	14%	14%
grade 1 events	3	6	1	1	9	17
	0%	0%	0%	0%	0%	0%
grade 2 events	197	200	90	198	476	1078
	2%	2%	1%	2%	18%	7%
grade 3 events	57	52	63	70	198	1208
	0%	0%	0%	0%	7%	8%
grade 4 events	71	75	64	45	211	1091
	1%	0%	0%	0%	8%	7%
grade 5 events	60	48	66	72	209	176
	0%	0%	0%	0%	8%	1%
grade 6 events	76	80	60	79	516	1497
	1%	1%	0%	0%	19%	10%
grade 7 events	5818	7110	6890	7200	601	7285
	88%	89%	92%	89%	23%	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-023678	ACIS-023678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	287.066758	287.0942286223607	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.246134	16.23909518388081	Alternating exposures requested	N	N
[deg] Pointing Roll	313.999334	314.1482757468229	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	186087664.184000	186087287.67087			
Observation start date	2003-11-24T19:00:00	2003-11-24T18:54:47			
[s] Observation end time (MET)	186089464.184000	186089787.13348			
Observation end date	2003-11-24T19:30:00	2003-11-24T19:36:27			
Read mode	TIMED	TIMED			

2.3 Aspect



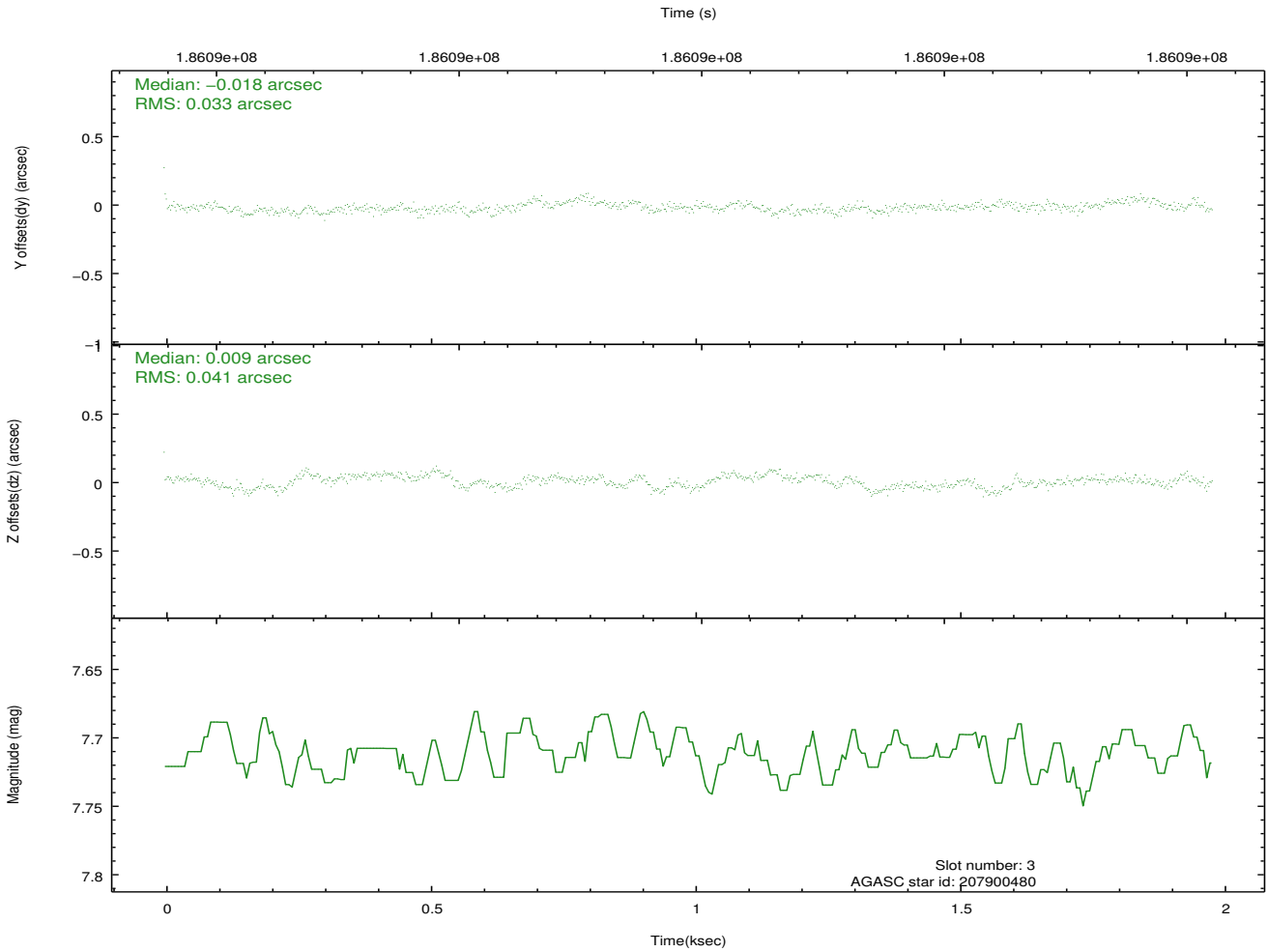
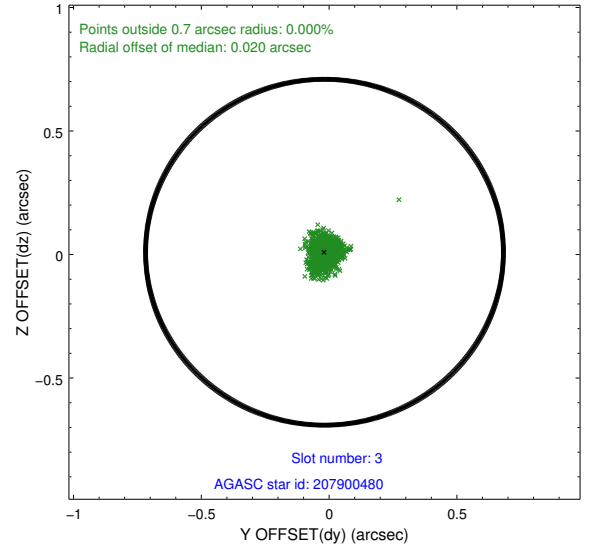
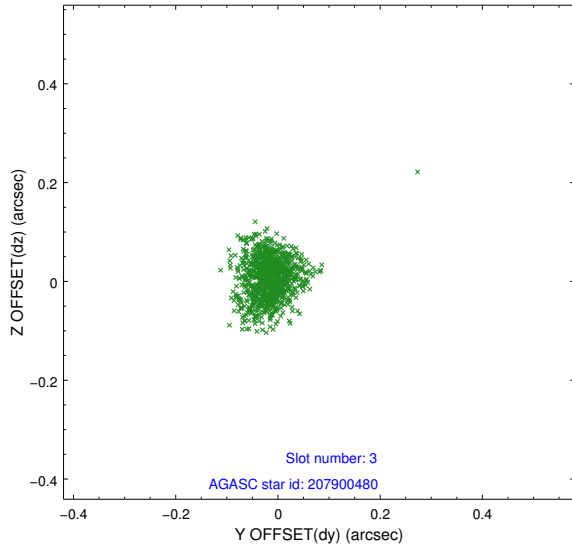


Slot Statistics

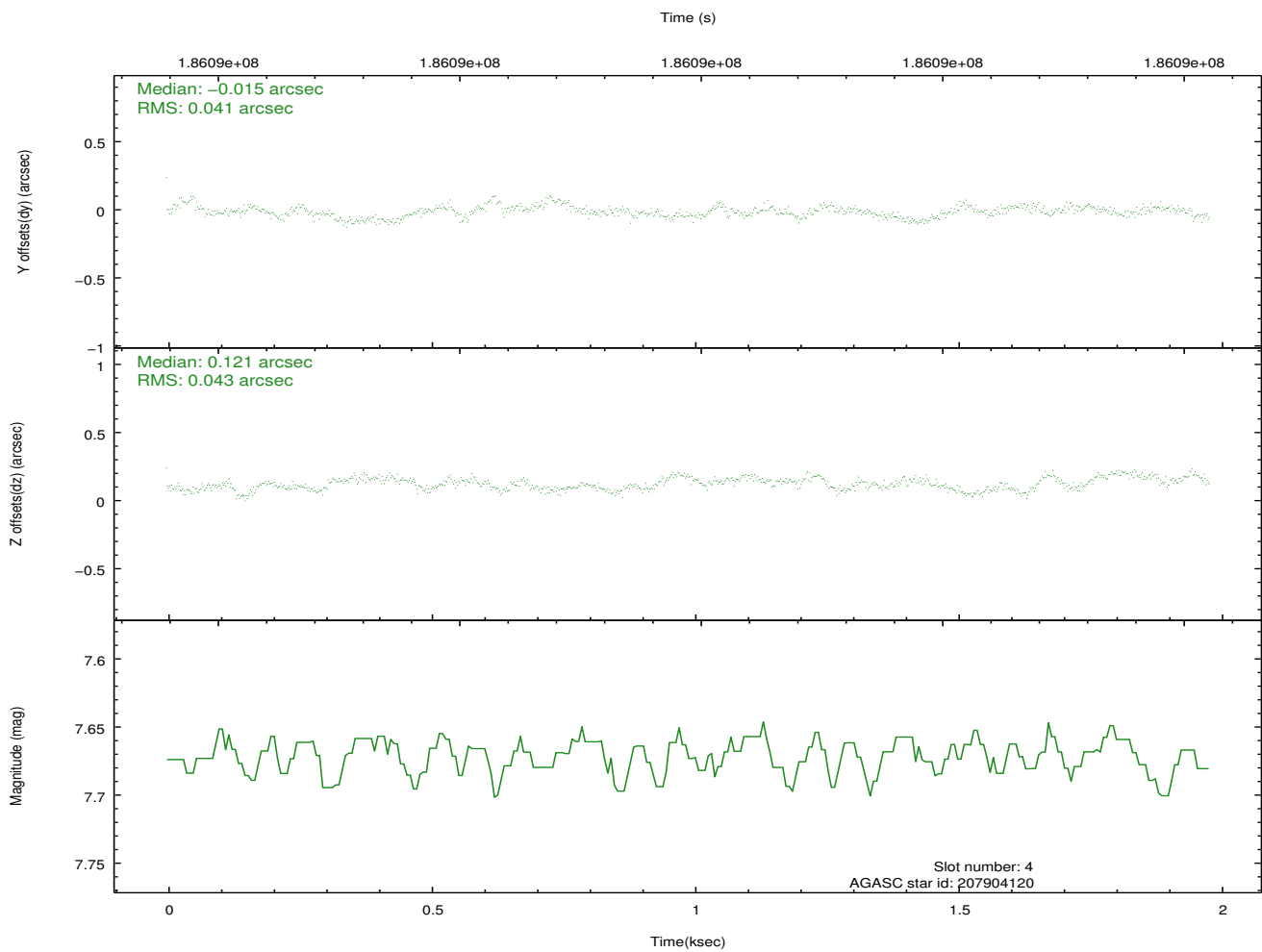
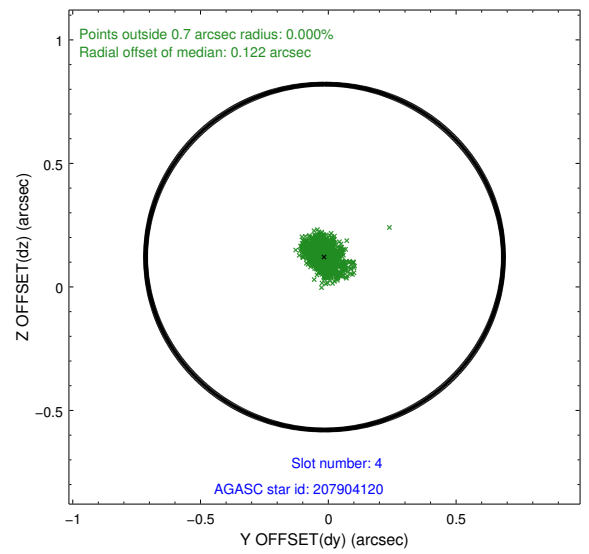
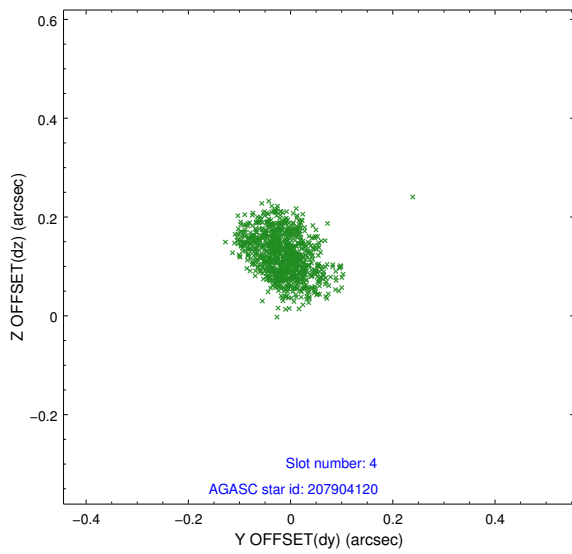
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.19	483	0.053	-0.006	0.006	0.009	0.000000	0.000000	2152.99	175.45
1	FID	ACIS-S-5	7.23	484	-0.041	0.007	0.005	0.011	0.000000	0.000000	-1809.04	169.30
2	FID	ACIS-S-6	7.34	483	-0.041	0.012	0.007	0.011	0.000000	0.000000	397.58	813.03
3	GUIDE	207900480	7.71	967	-0.018	0.009	0.054	0.089	286.932282	16.070409	132.12	-774.07
4	GUIDE	207904120	7.67	967	-0.015	0.121	0.064	0.099	286.904195	16.289988	-503.50	-295.17
5	GUIDE	207909176	8.42	967	-0.009	-0.106	0.053	0.087	287.357845	16.116738	1033.61	400.68
6	GUIDE	207916440	6.85	967	-0.147	-0.013	0.063	0.096	287.167522	16.851310	-1324.87	1762.95
7	GUIDE	207907984	9.34	963	0.191	-0.022	0.109	0.166	287.467981	15.973007	1670.00	318.64

2.4 Star Slots

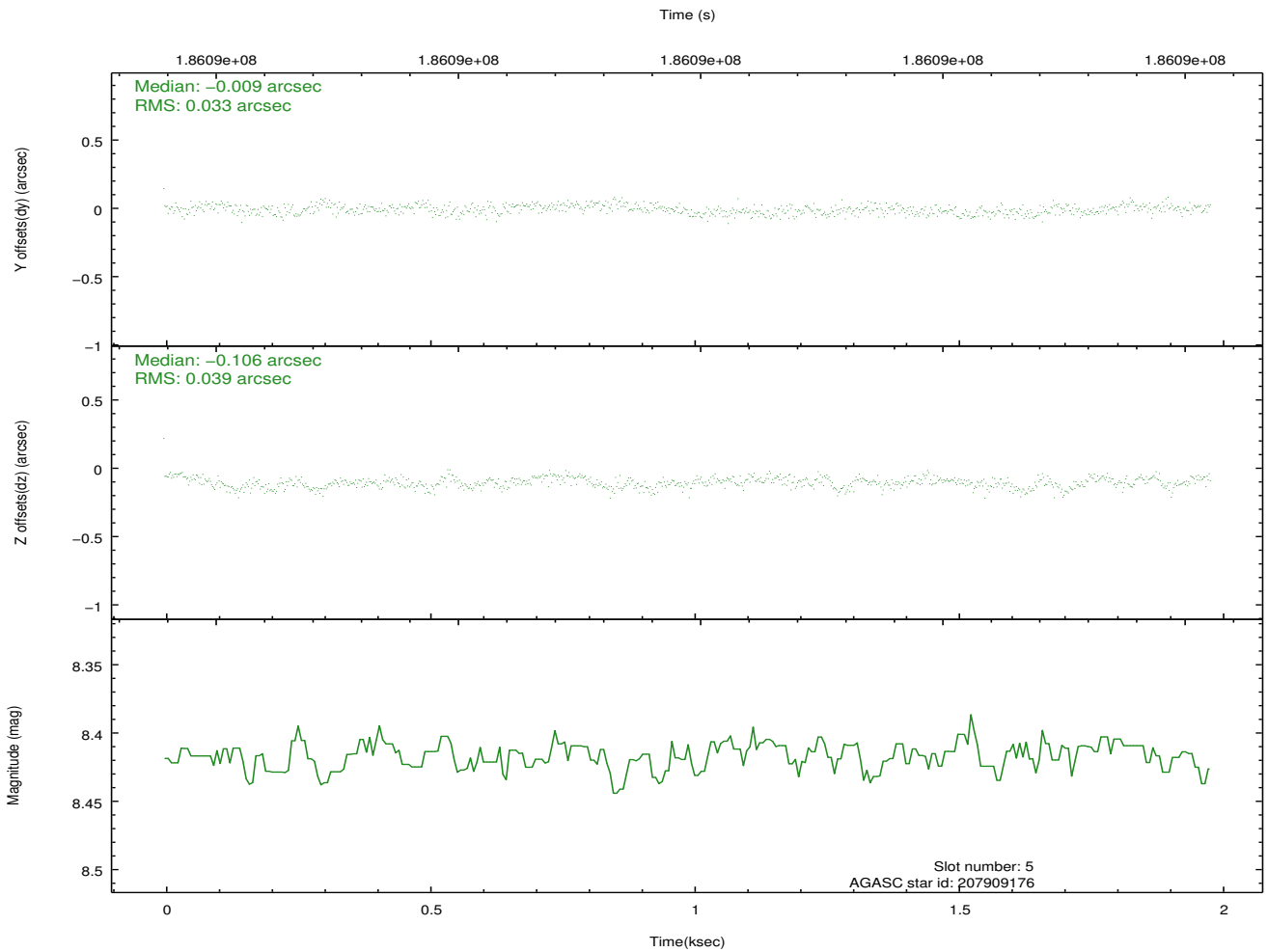
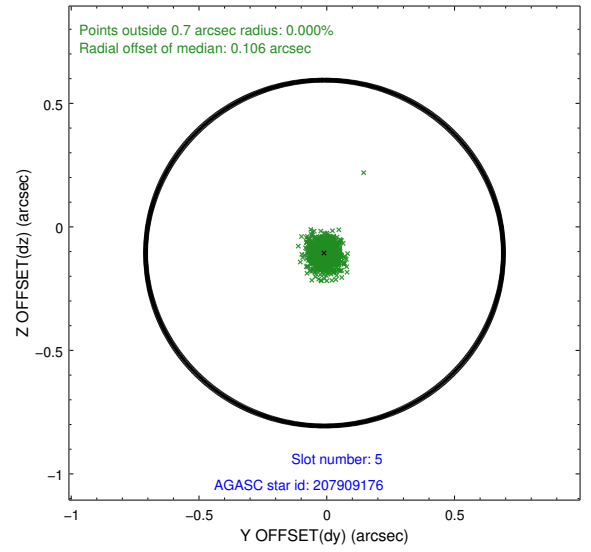
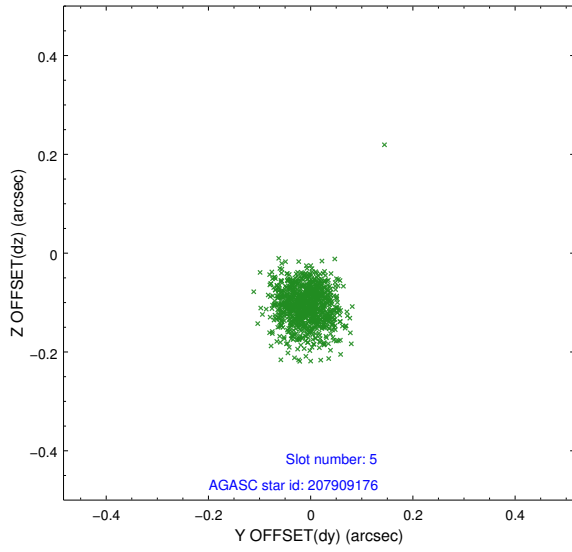
2.4.1 Slot 3



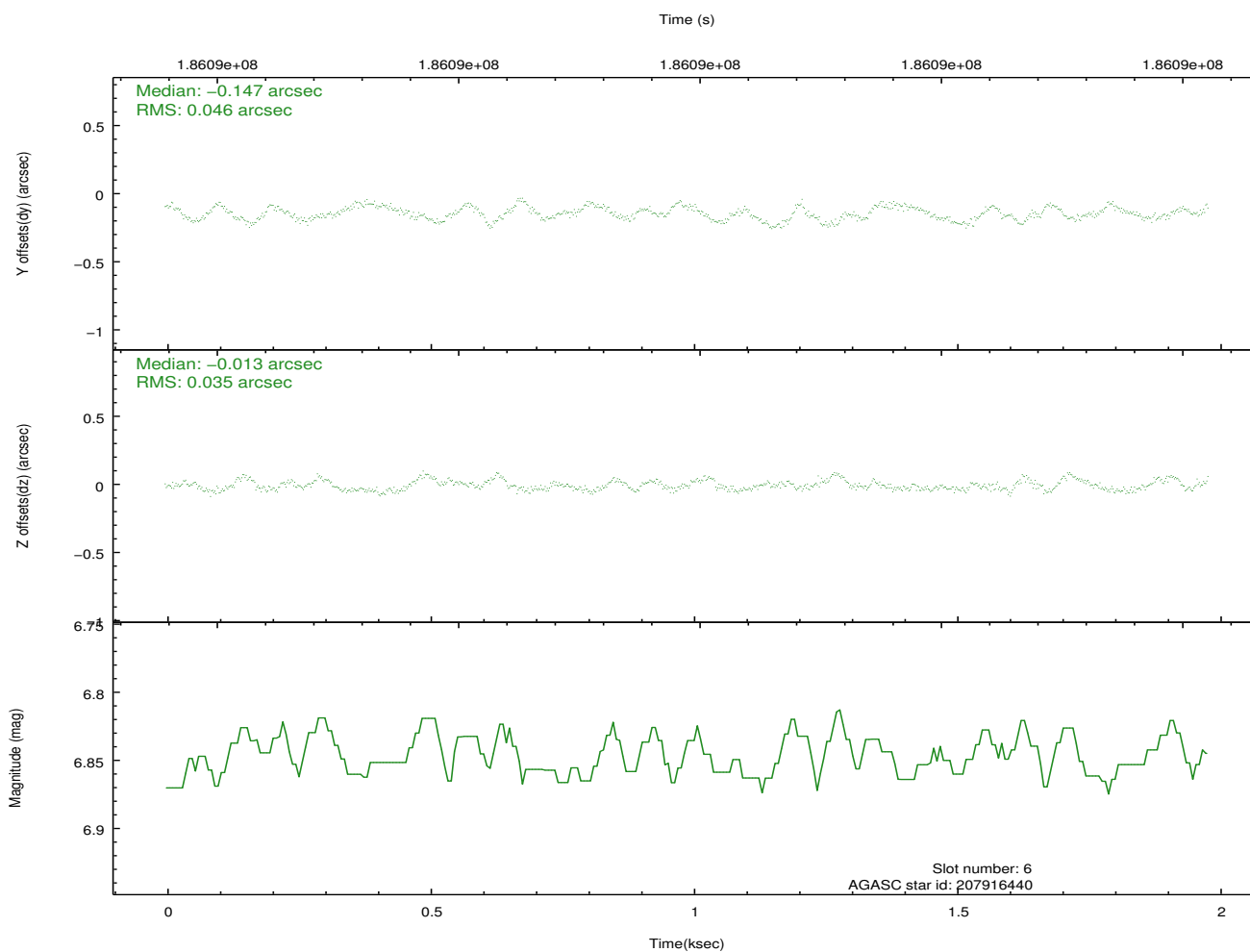
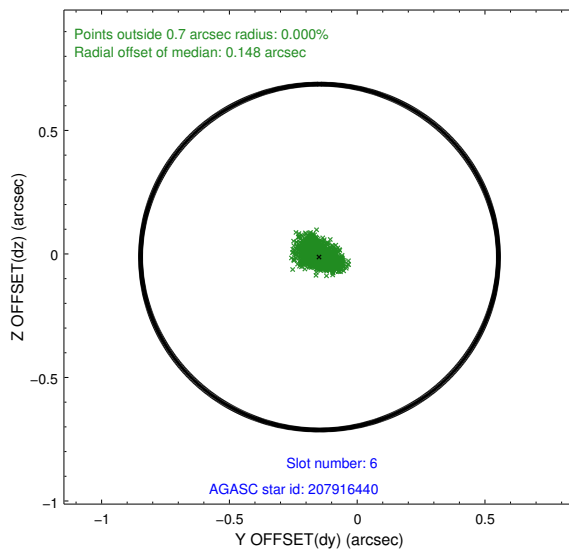
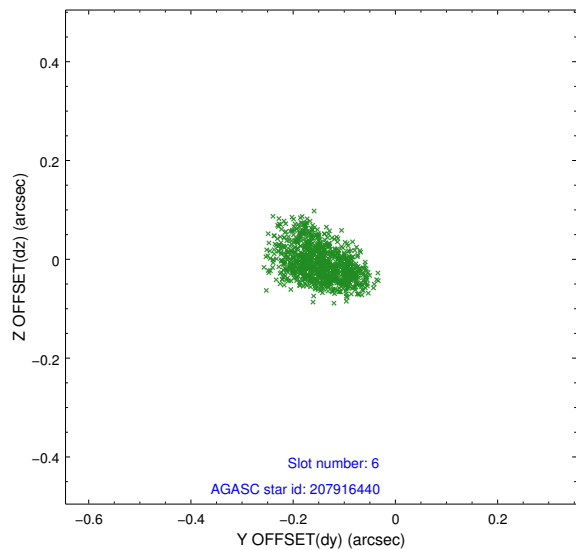
2.4.2 Slot 4



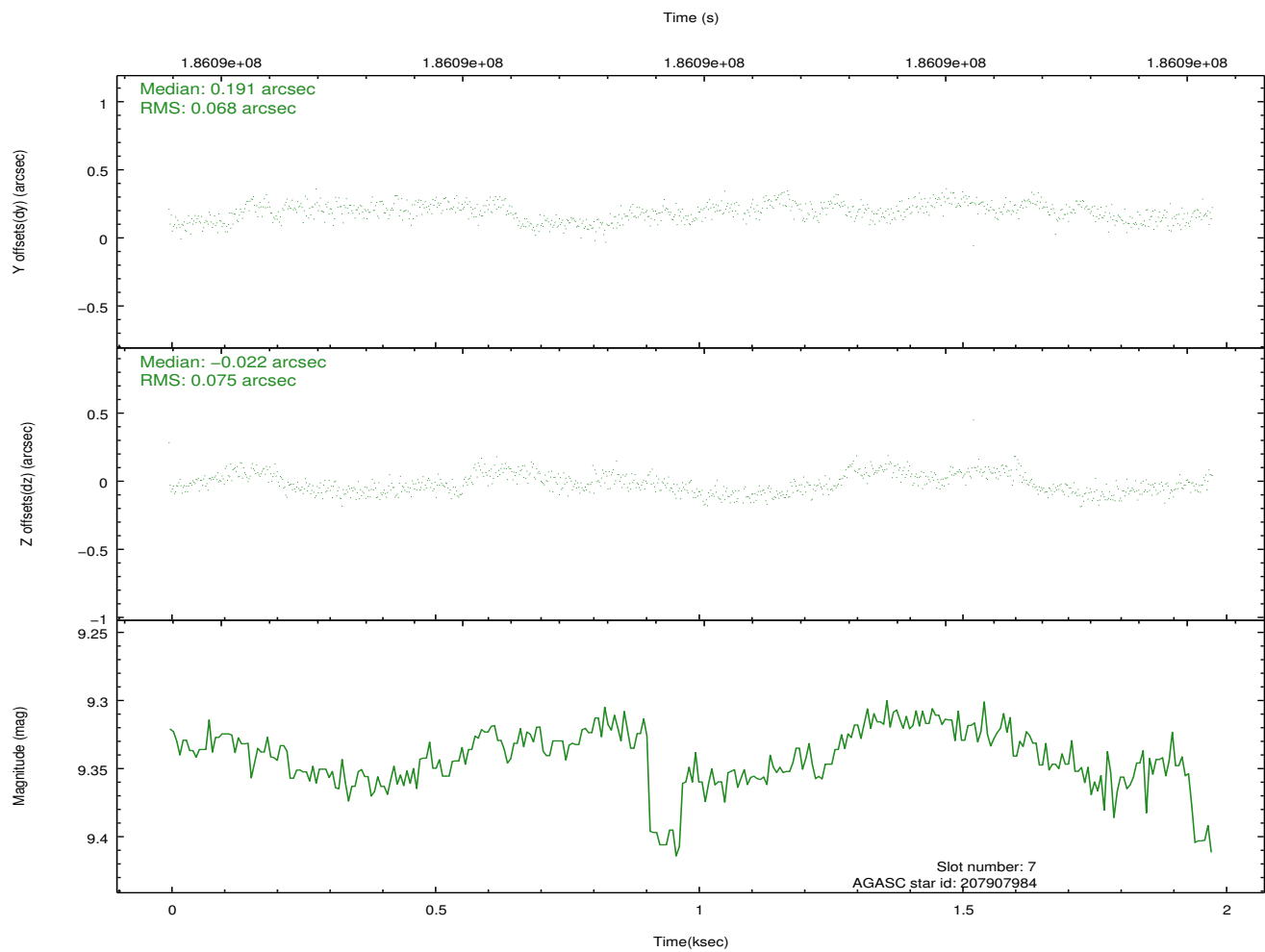
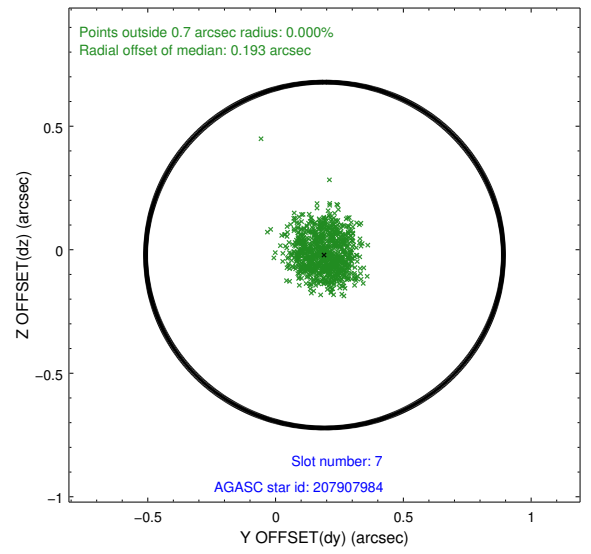
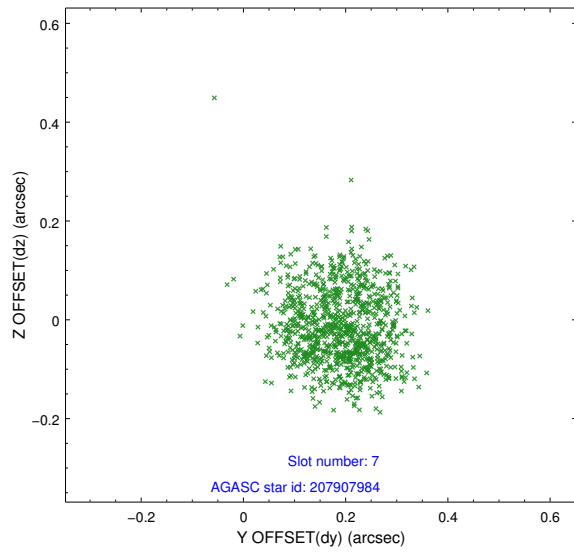
2.4.3 Slot 5



2.4.4 Slot 6

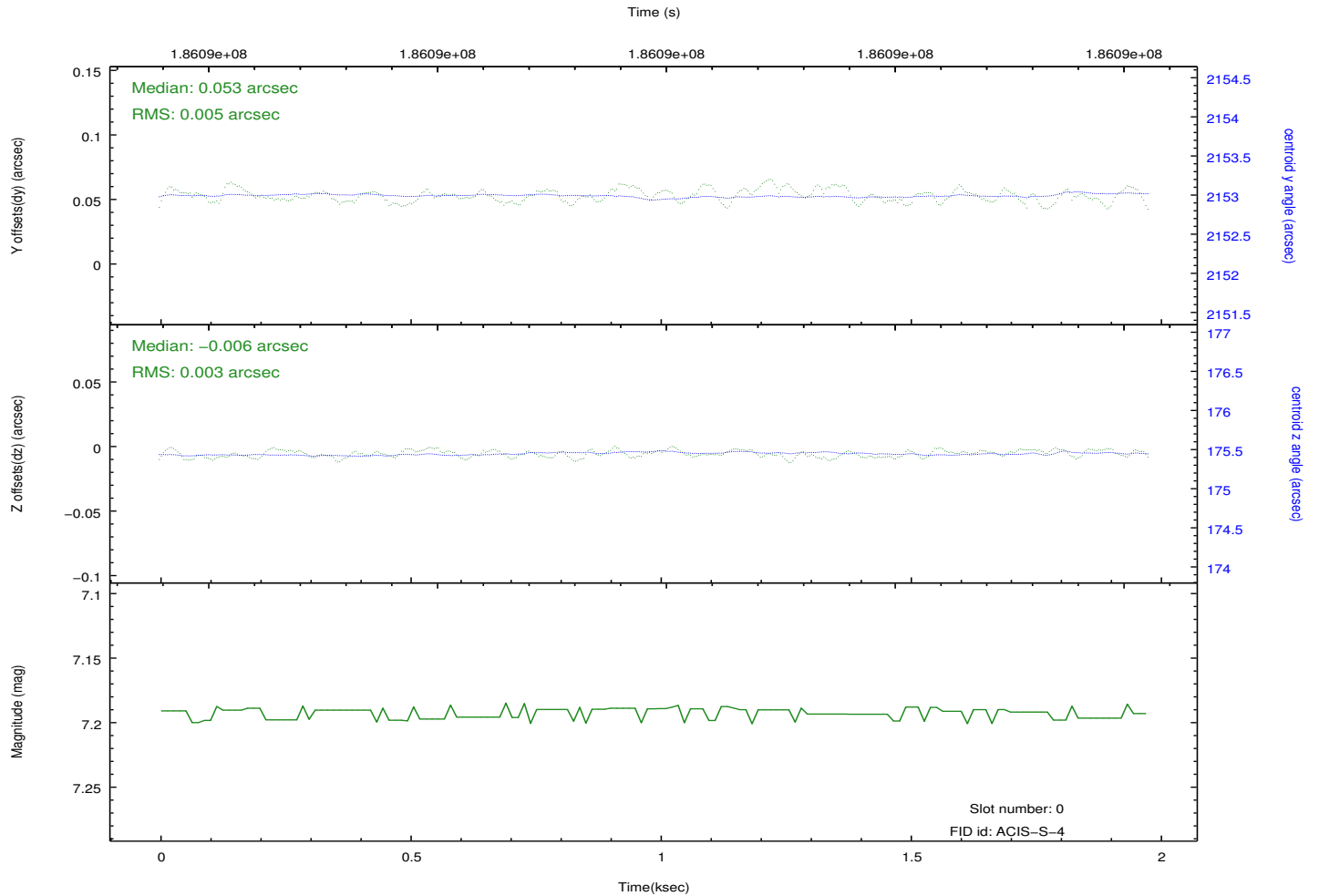
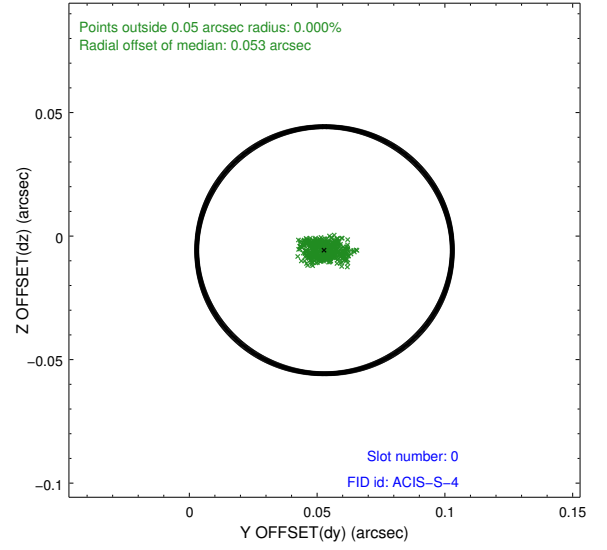
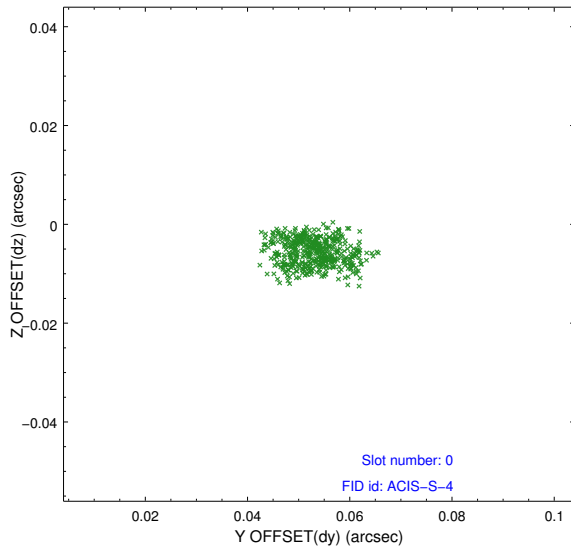


2.4.5 Slot 7

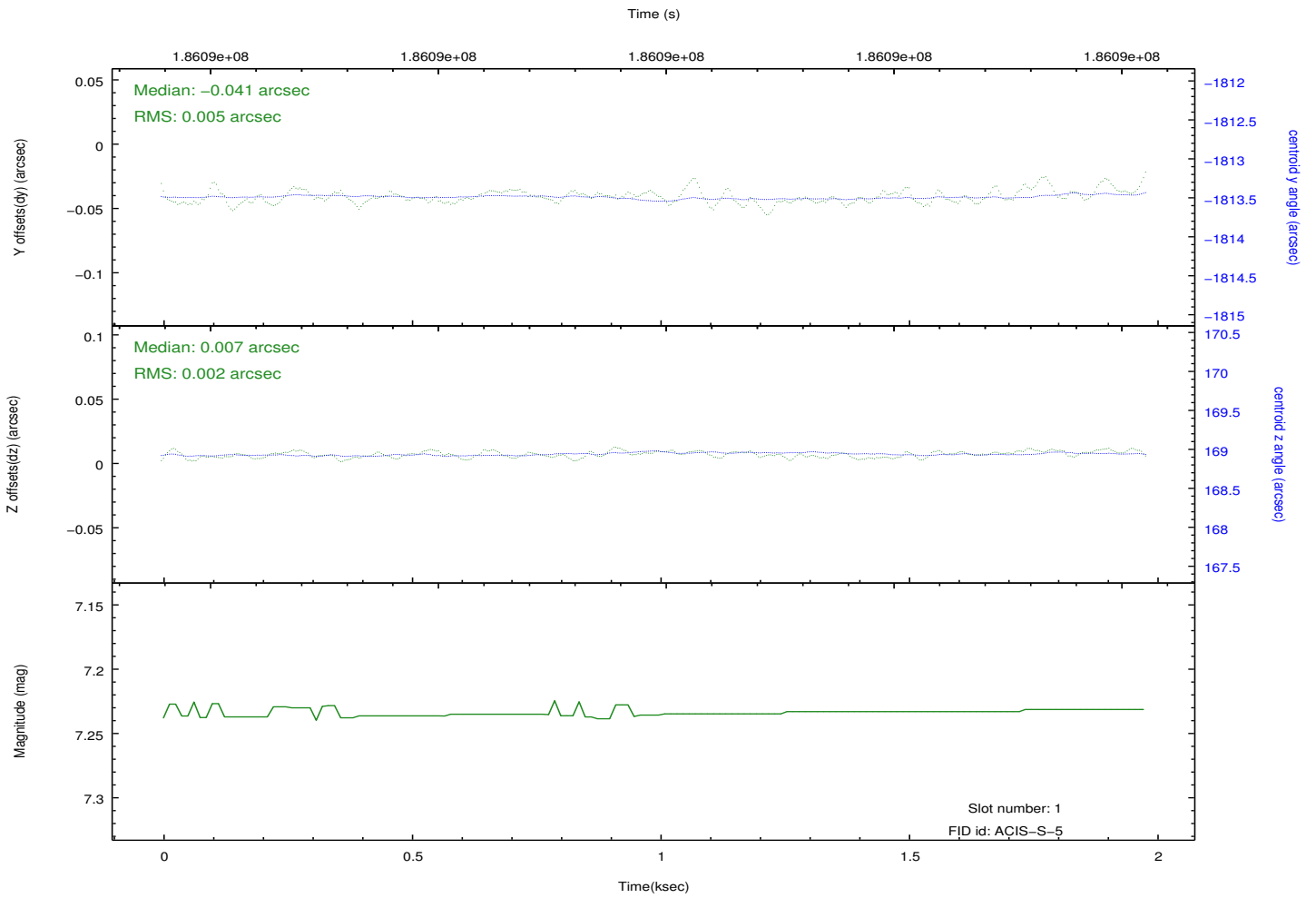
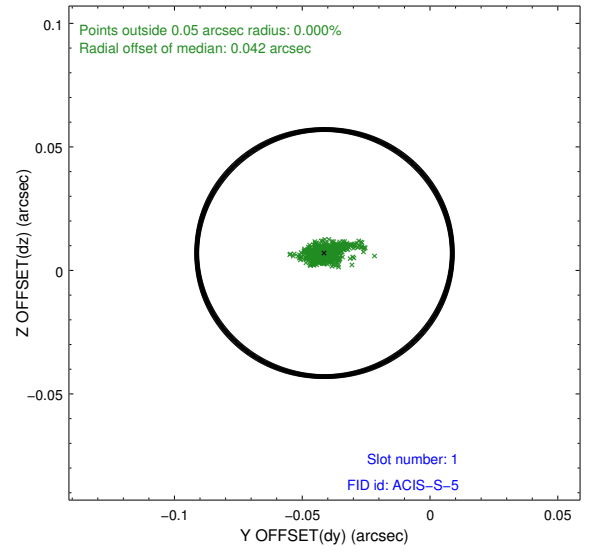
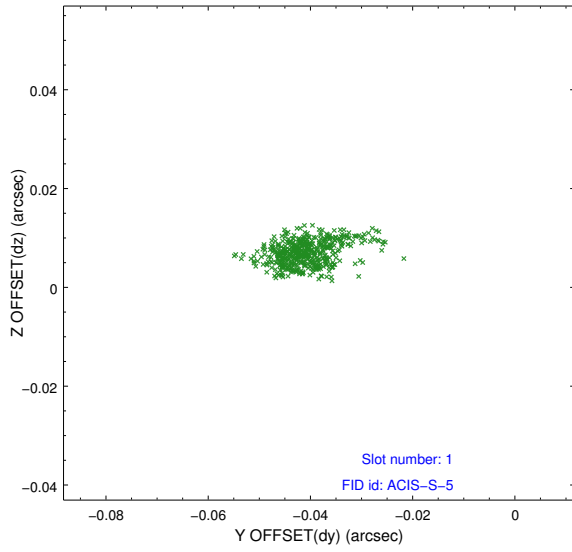


2.5 FID Slots

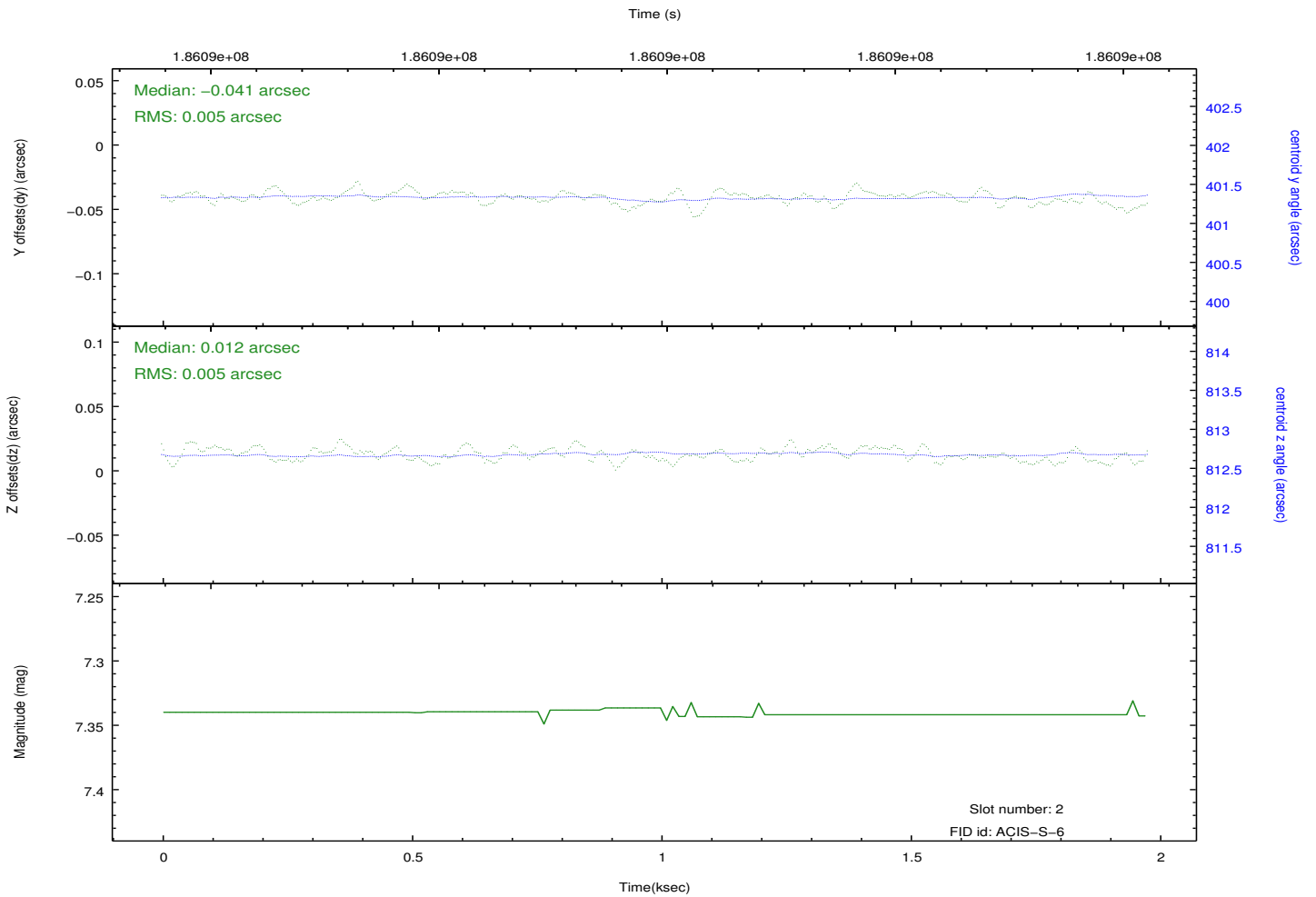
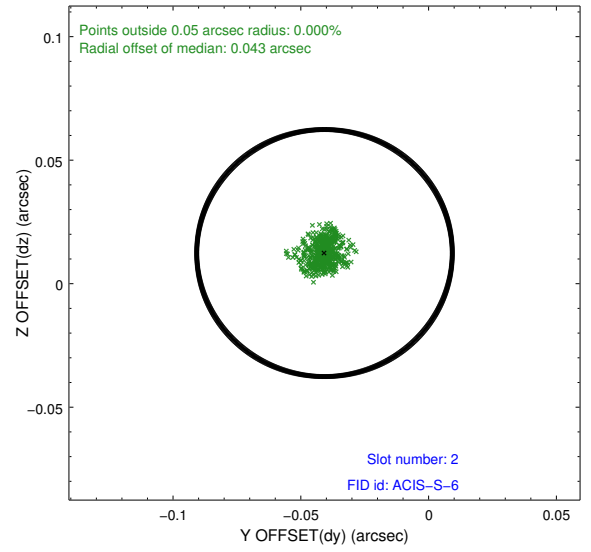
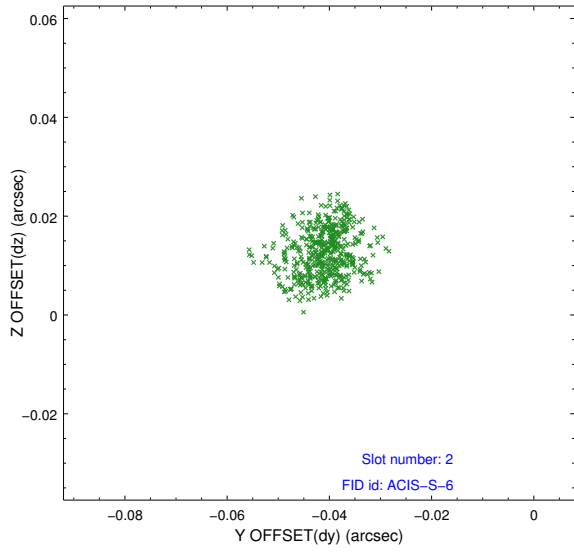
2.5.1 Slot 0



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)	2012.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.974

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.