

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7311 - L2 Version 2
Chandra X-Ray Center

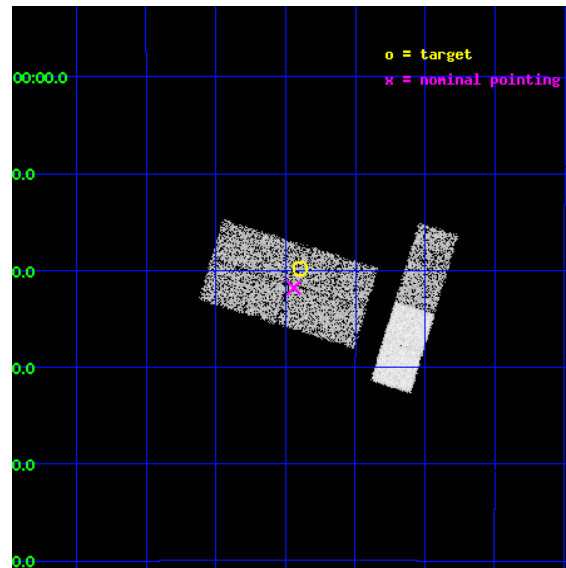
L2 Processing Date : Mar 28 2012

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 2	9
2.4.2	Slot 3	10
2.4.3	Slot 4	11
2.4.4	Slot 5	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

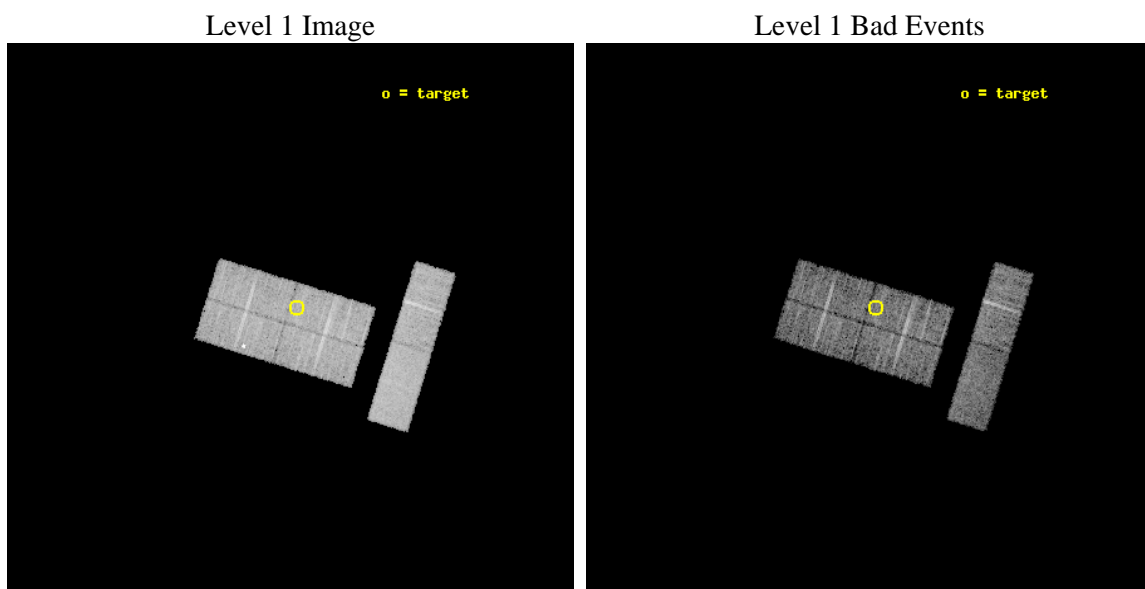
seq_num	100062	Sequence number
obs_id	7311	Observation id
title	Search for charge exchange induced X-ray emission in the Venusian exosphere	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.223117	Observer's specified target RA [deg]
dec_targ	-13.330805	Observer's specified target Dec [deg]
ra_nom	322.23526100069	Nominal RA [deg]
dec_nom	-13.363421995654	Nominal Dec [deg]
roll_nom	107.15465450269	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6393.6000423431	Sum of GTIs [s]
livetime	6251.0755204763	Livetime [s]
ontime0	6393.6000423431	Sum of GTIs [s]
ontime1	6393.6000423431	Sum of GTIs [s]
ontime2	6393.6000423431	Sum of GTIs [s]
ontime3	6393.6000423431	Sum of GTIs [s]
ontime6	6391.7590222359	Sum of GTIs [s]
ontime7	6393.6000423431	Sum of GTIs [s]
l2events	30706	Number of level 2 events



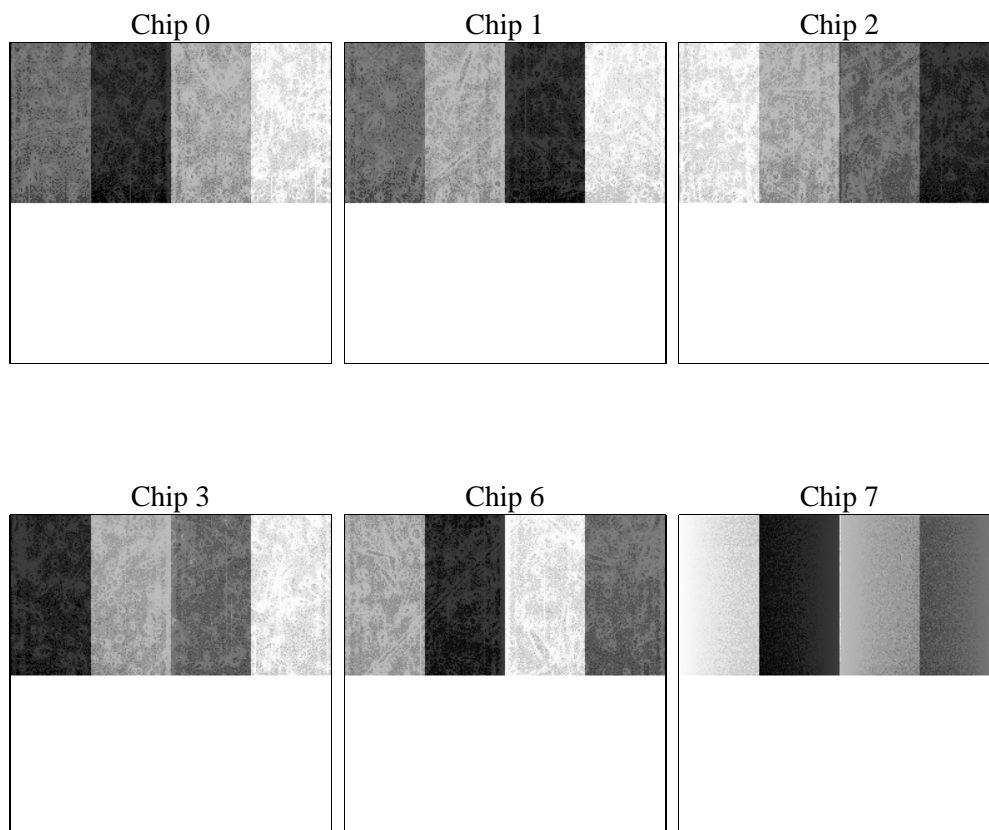
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	6393.6000423431	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	6393.6000423431	Sum of GTIs [s]
date	2012-03-28T21:23:39	Date and time of file creation	ontime1	6393.6000423431	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6393.6000423431	Sum of GTIs [s]
			ontime3	6393.6000423431	Sum of GTIs [s]
			ontime6	6391.7590222359	Sum of GTIs [s]
			ontime7	6393.6000423431	Sum of GTIs [s]
			l1events	205172	Number of level 1 events

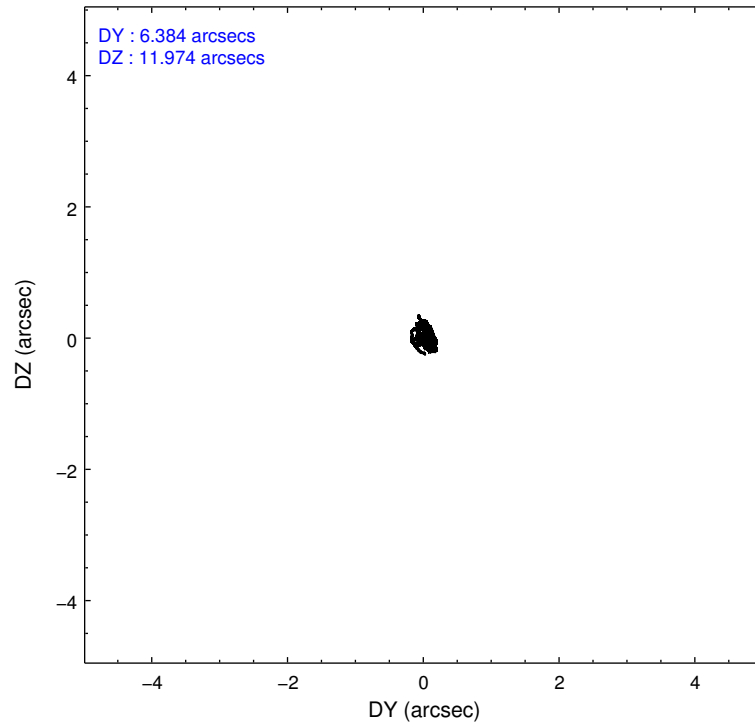
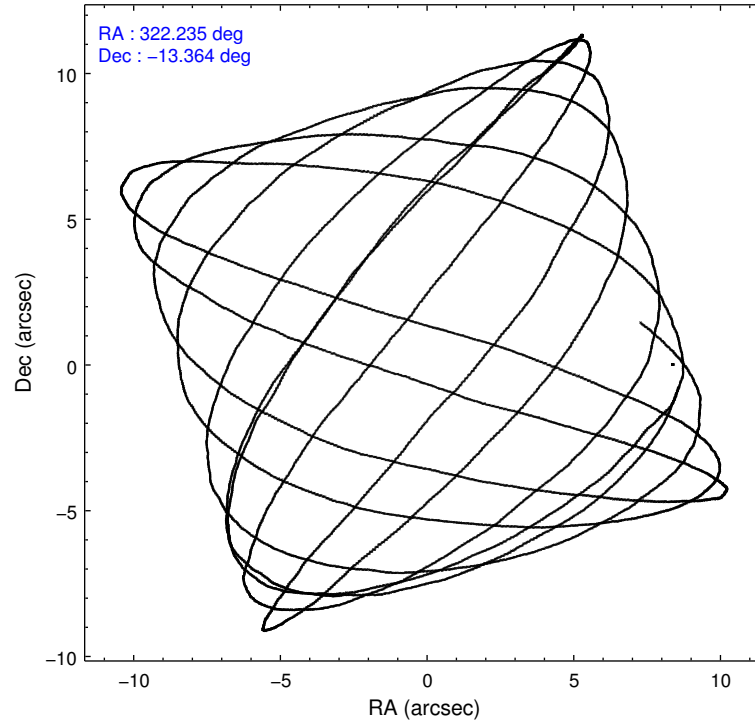
2.1.4 Events

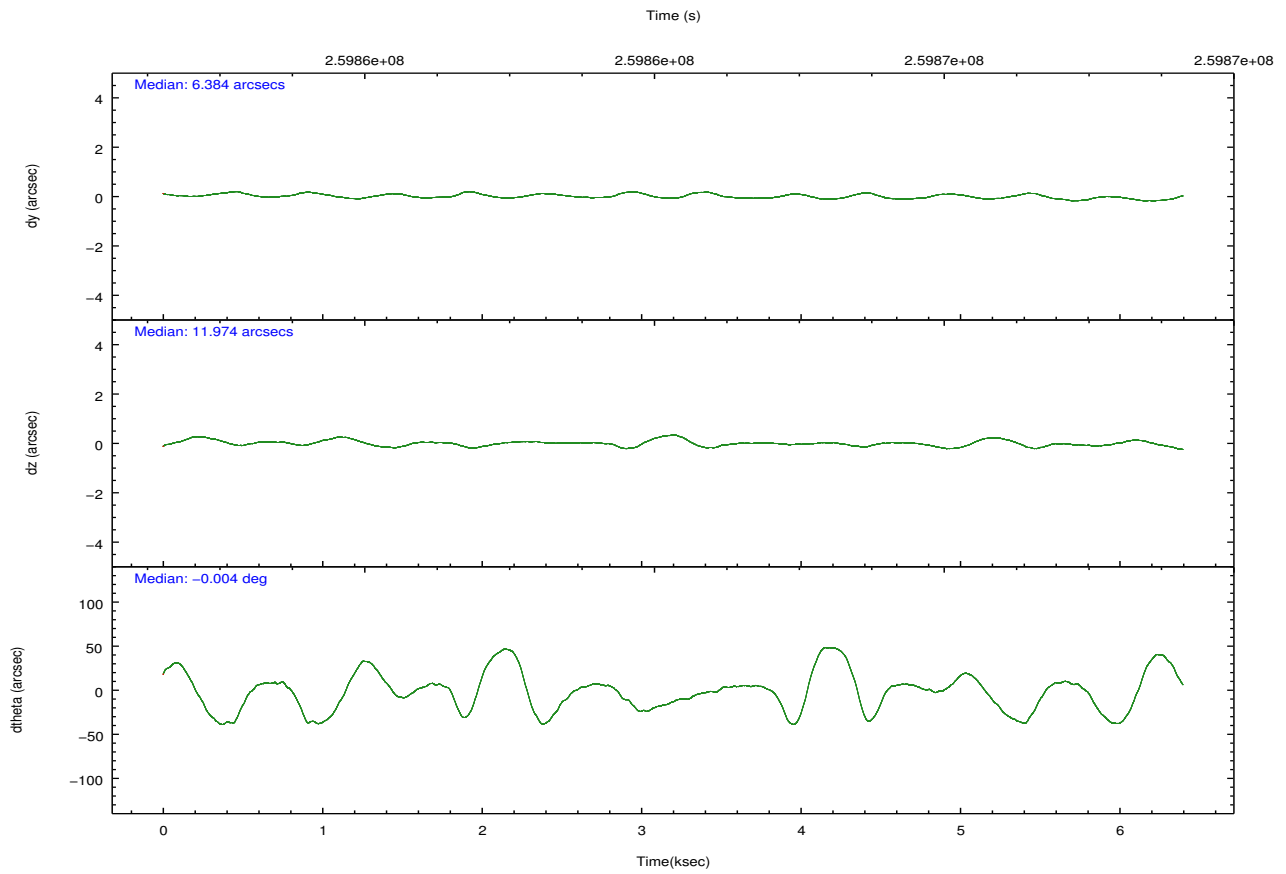
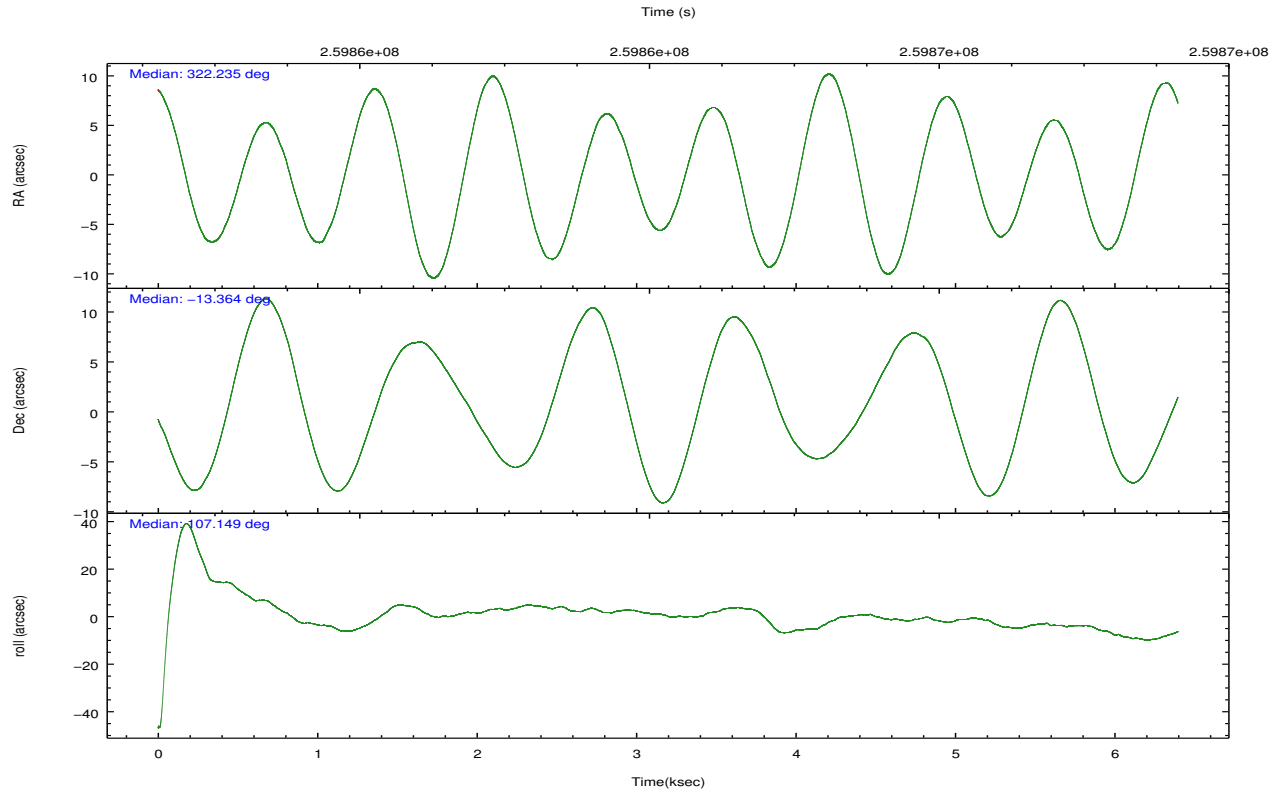
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30063	31525	34691	31528	35988	41377	grade 0 events	1593	2604	1641	1546	1399	1648
rejected events	26500	26868	31161	28032	32411	25128		5%	8%	4%	4%	3%	3%
rejected %	88%	85%	89%	88%	90%	60%	grade 1 events	25	24	21	15	22	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	770	834	697	660	755	3328
								2%	2%	2%	2%	2%	8%
							grade 3 events	417	366	432	413	431	1680
								1%	1%	1%	1%	1%	4%
							grade 4 events	353	396	416	408	433	1638
								1%	1%	1%	1%	1%	3%
							grade 5 events	1315	1299	1211	1441	1599	4094
								4%	4%	3%	4%	4%	9%
							grade 6 events	607	682	556	638	751	8777
								2%	2%	1%	2%	2%	21%
							grade 7 events	24983	25320	29717	26407	30598	20166
								83%	80%	85%	83%	85%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	322.255946	322.2352610006854	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-13.381879	-13.3634219956542	Subarray start row	513	513
[deg] Pointing Roll	106.950761	107.1546545026881	Subarray row count	512	512
[s] Window start time (MET)	258076865.184000	258076865.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	261705665.184000	261705665.184000	[s] Primary exposure time	0.000000	1.8
[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)	259861122.184000	259860746.05955			
Observation start date	2006-03-27T15:37:37	2006-03-27T15:32:26			
[s] Observation end time (MET)	259867322.184000	259867456.73486			
Observation end date	2006-03-27T17:20:57	2006-03-27T17:24:16			
Read mode	TIMED	TIMED			

2.3 Aspect



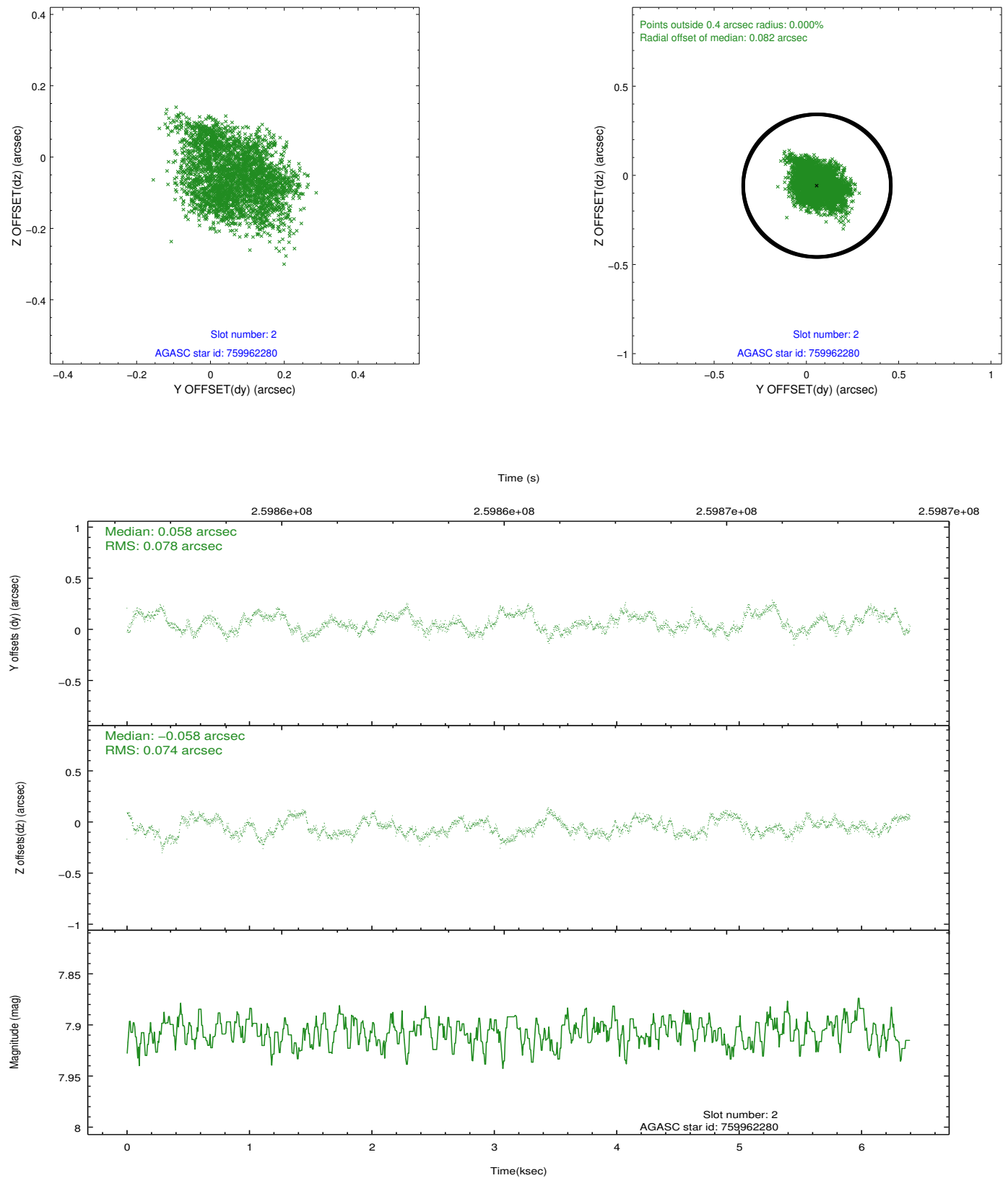


Slot Statistics

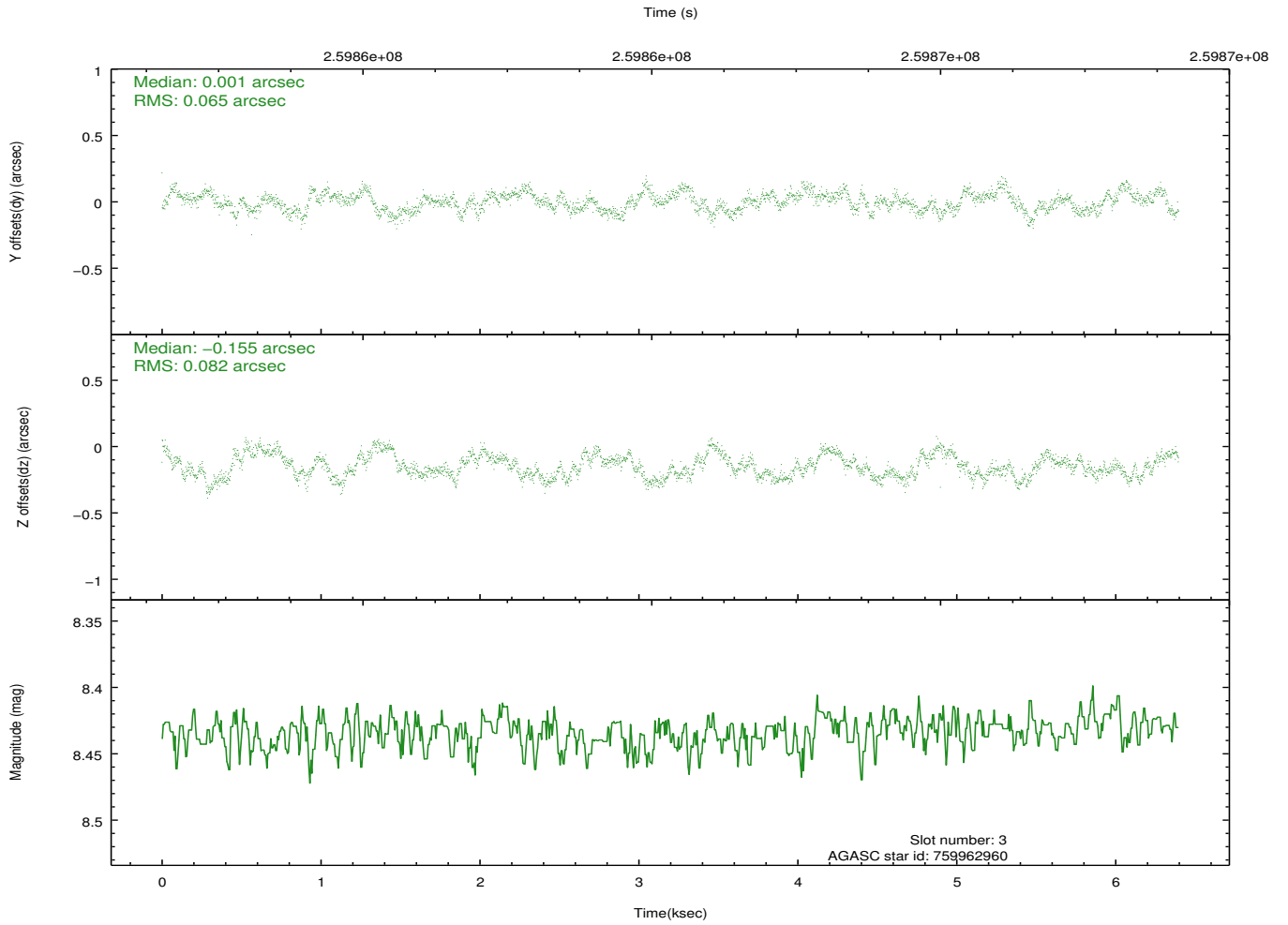
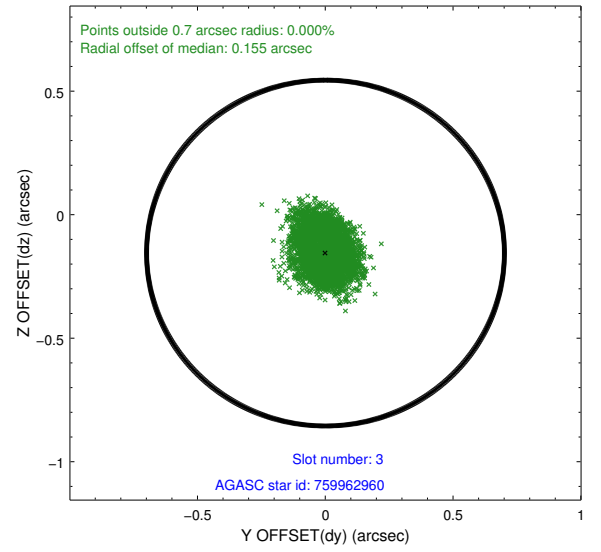
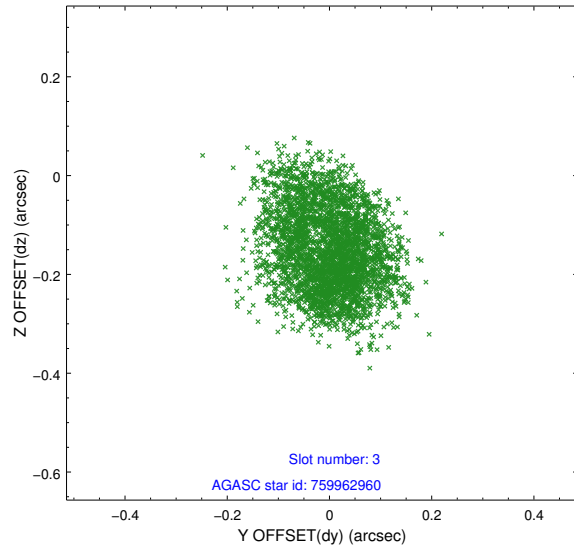
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1561	0.026	-0.083	0.203	0.301	0.000000	0.000000	-760.80	-842.00
1	FID	ACIS-I-5	7.11	1561	-0.090	0.131	0.203	0.301	0.000000	0.000000	-1815.52	1061.62
2	GUIDE	759962280	7.91	3121	0.058	-0.058	0.117	0.175	322.001957	-13.698366	-831.26	1182.33
3	GUIDE	759962960	8.43	3121	0.001	-0.155	0.114	0.173	321.922663	-13.562736	-283.41	1306.09
4	GUIDE	759963784	9.83	3117	0.040	0.179	0.238	0.338	322.079300	-13.771695	-1162.16	1000.67
5	BAD	759961200	10.02	2037	-0.086	-0.319	0.239	0.407	321.872560	-14.109246	-2114.08	2046.26
6	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	759962368	9.11	3119	-0.060	0.221	0.108	0.165	322.267195	-13.797795	-1444.09	399.88

2.4 Star Slots

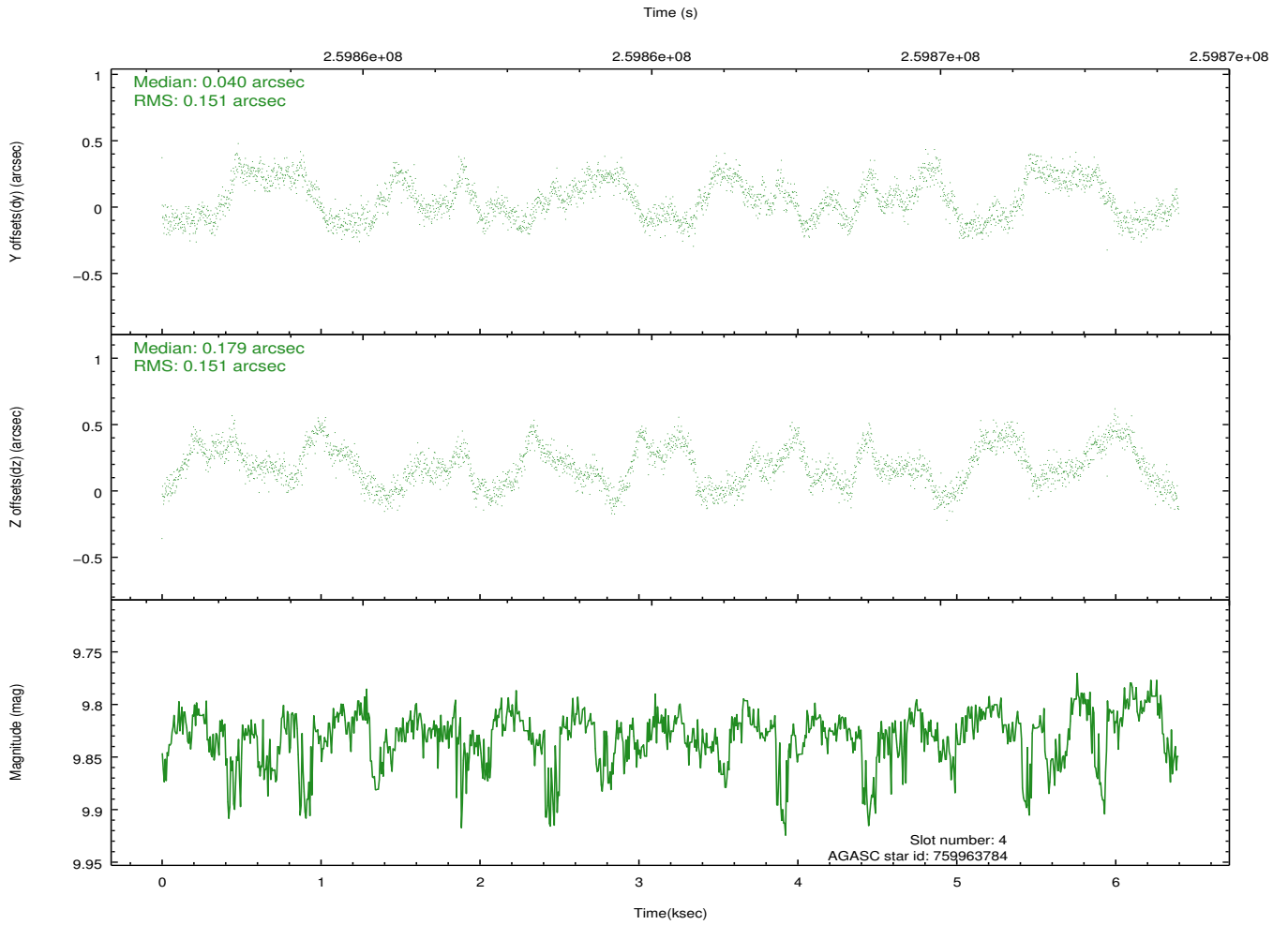
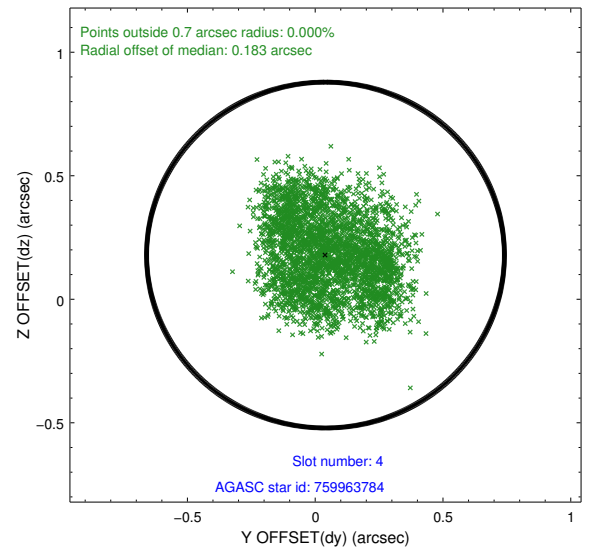
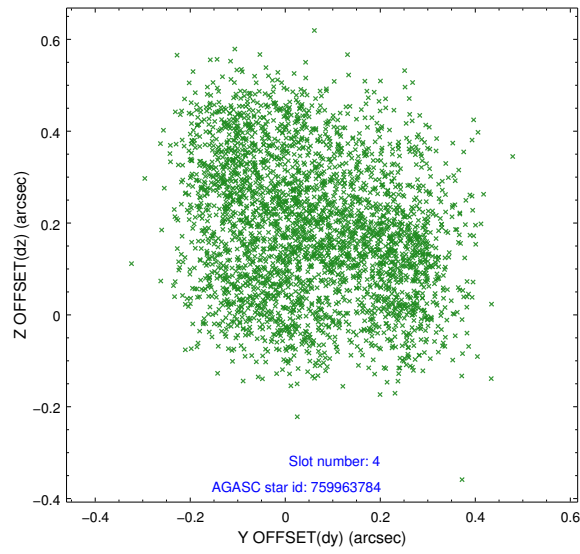
2.4.1 Slot 2



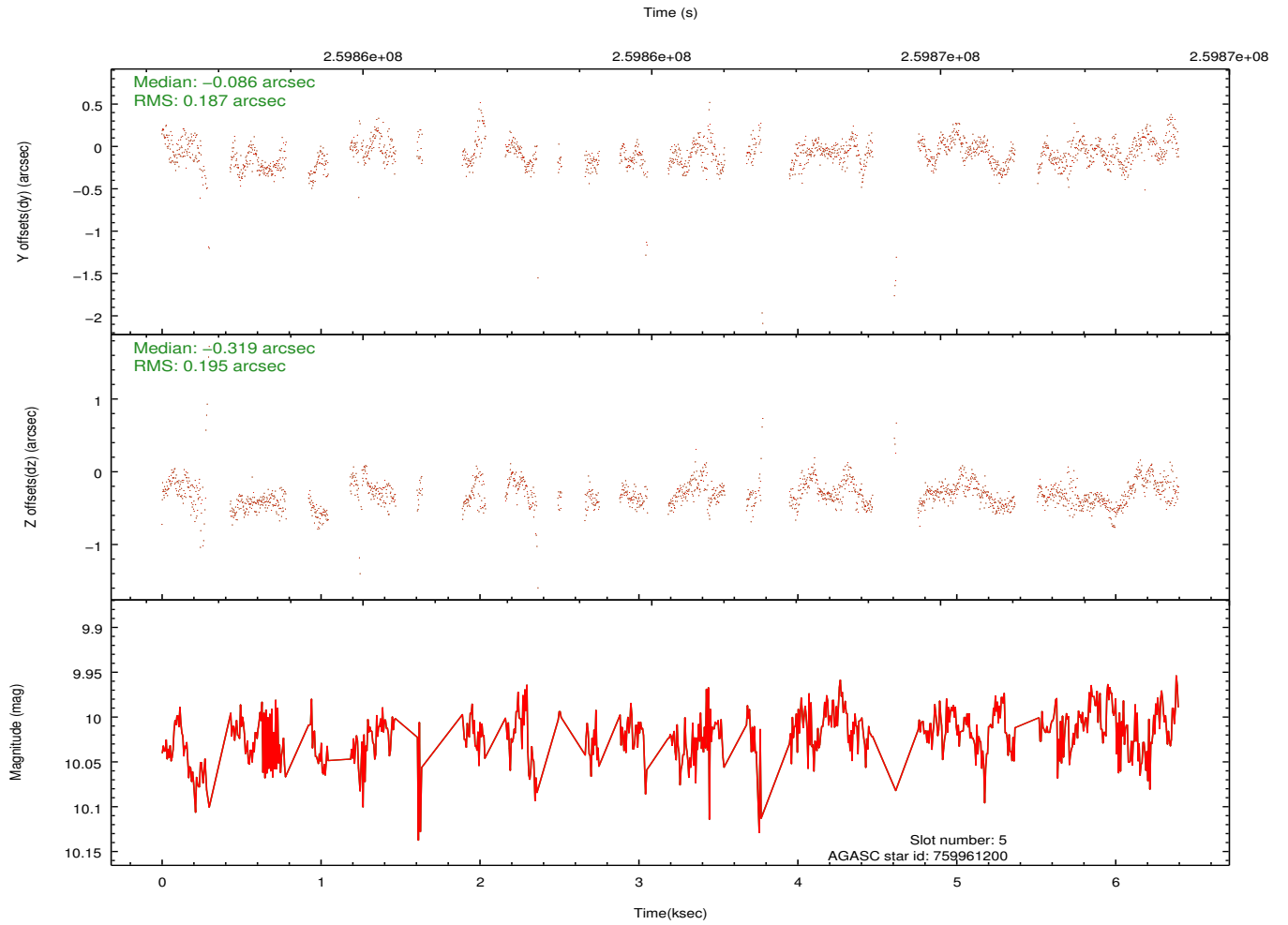
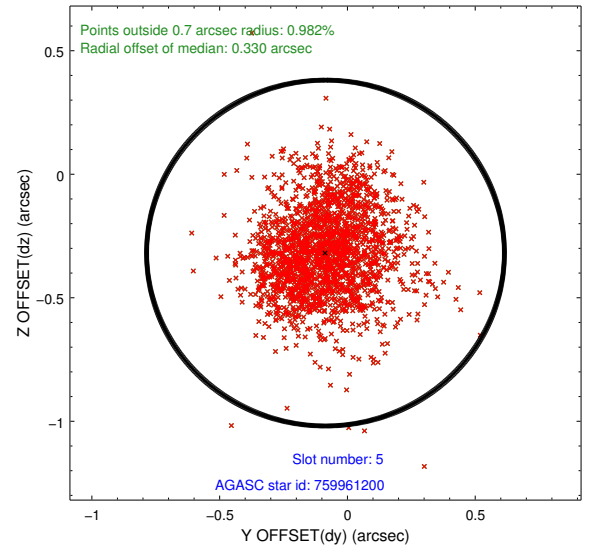
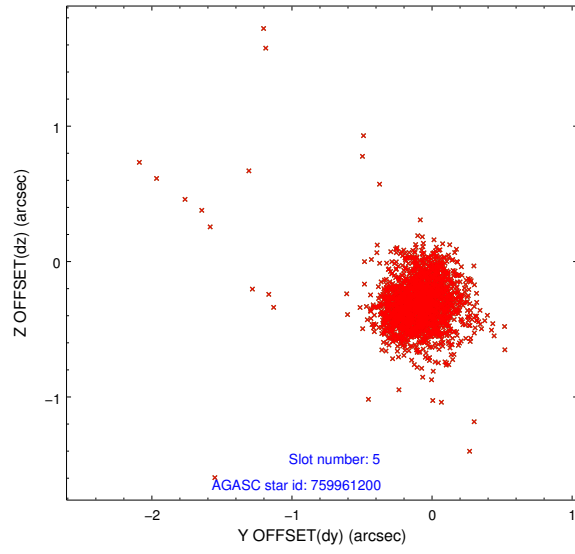
2.4.2 Slot 3



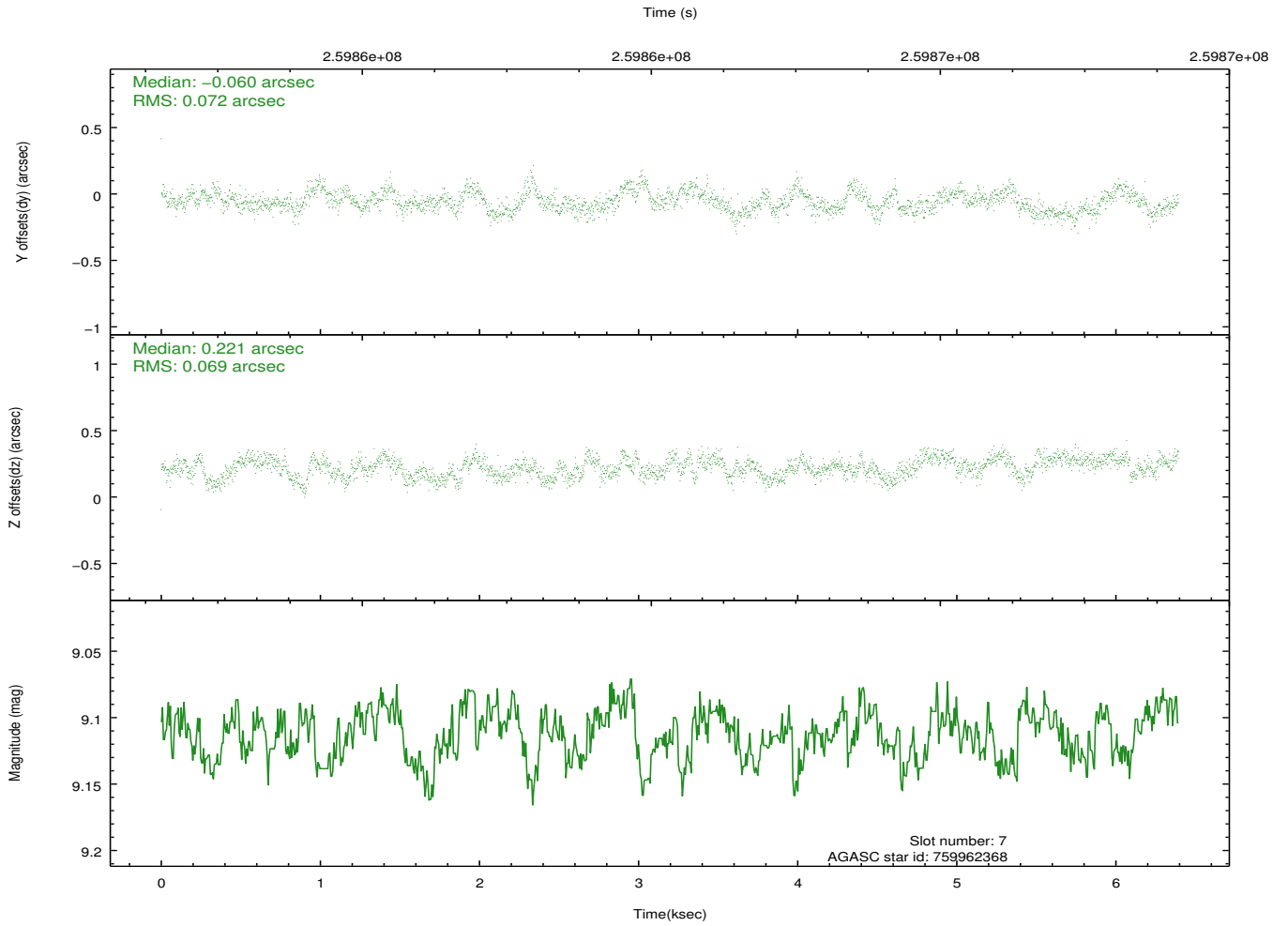
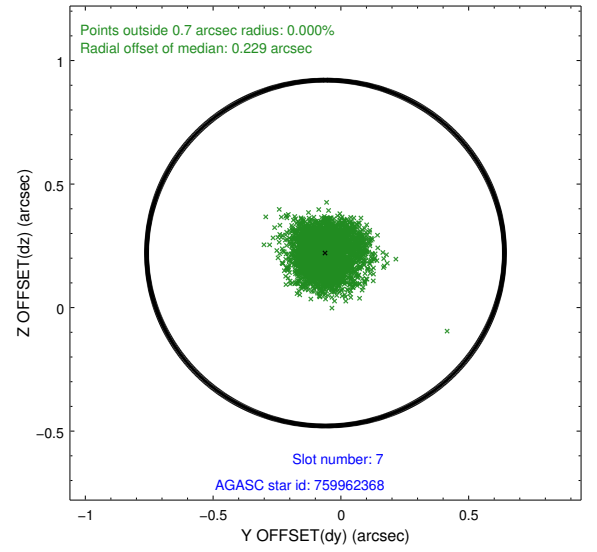
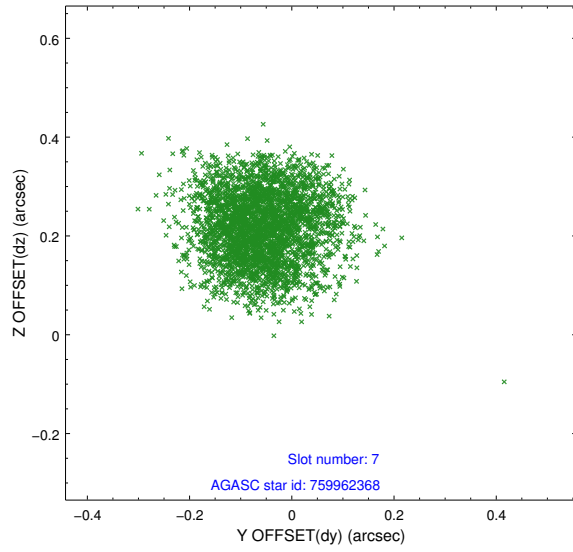
2.4.3 Slot 4



2.4.4 Slot 5

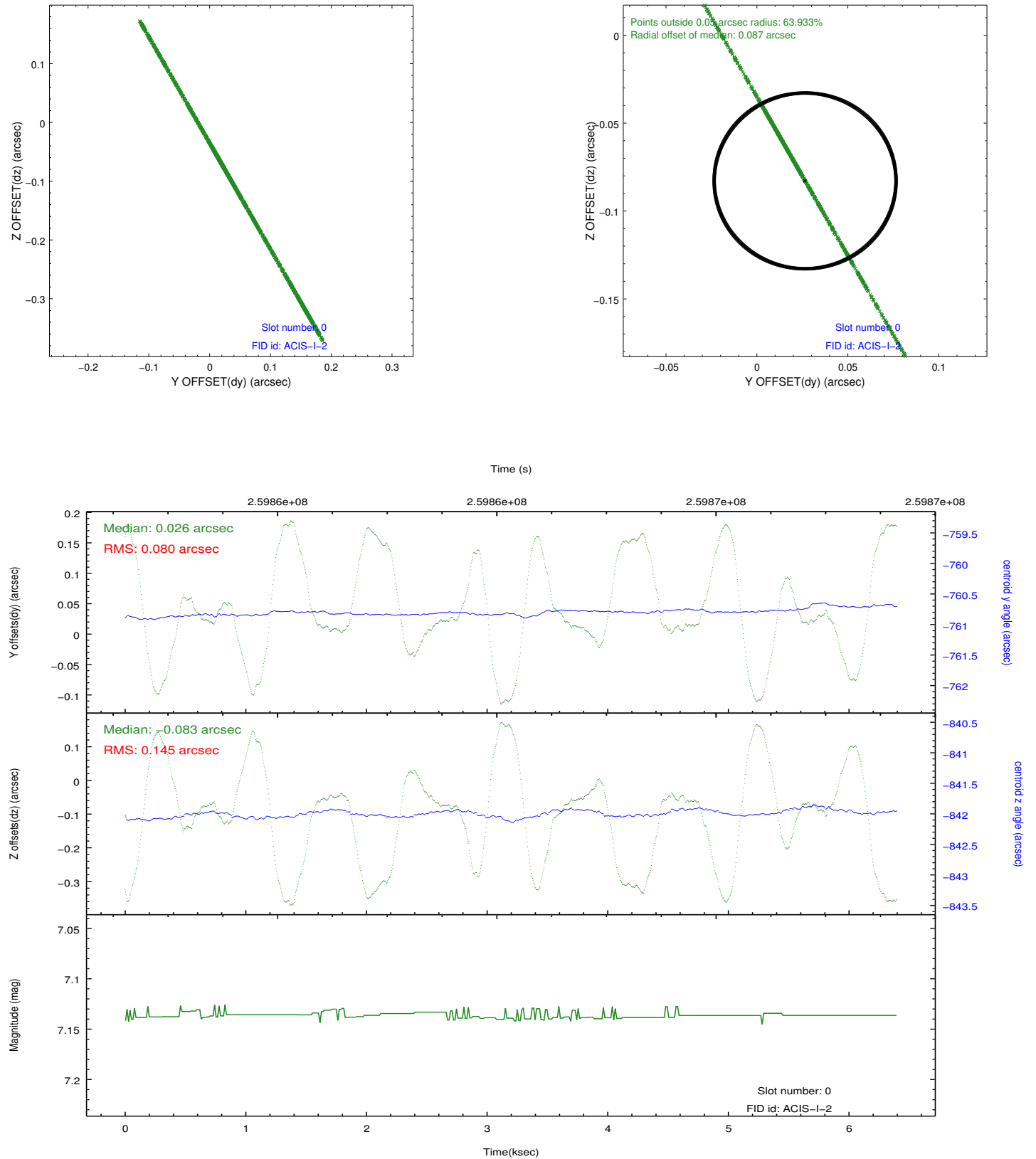


2.4.5 Slot 7

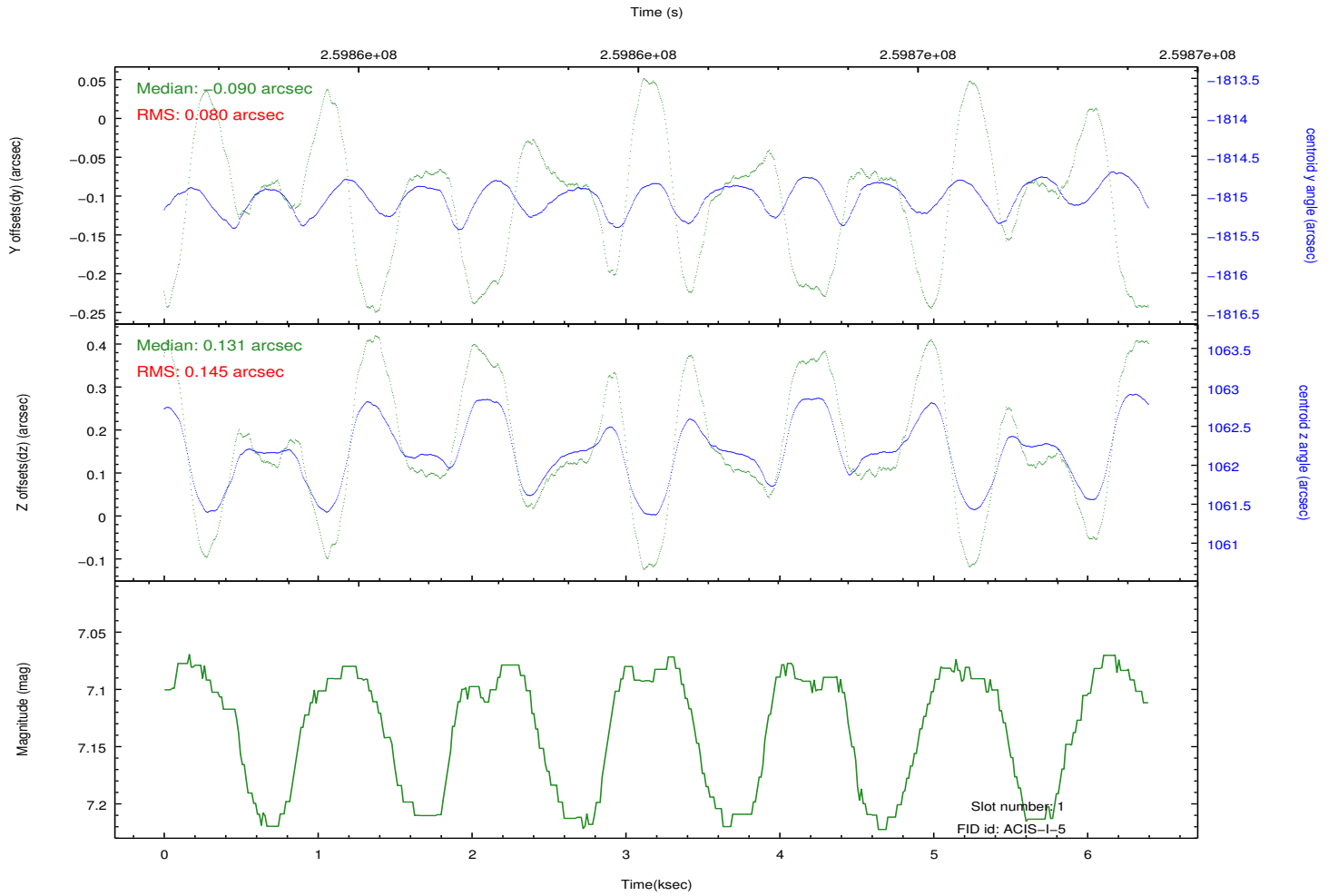
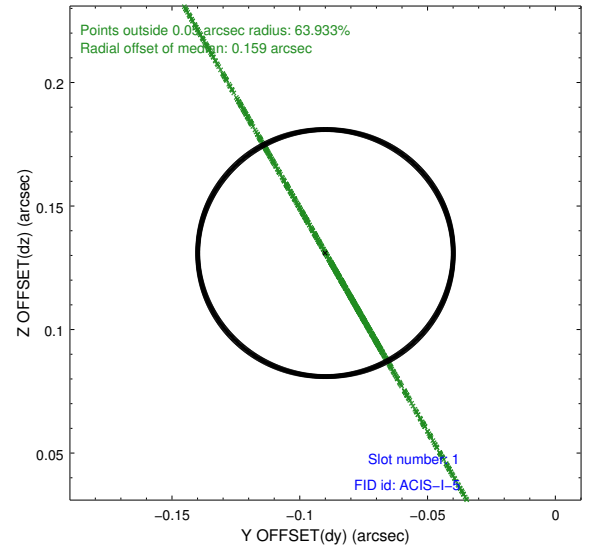
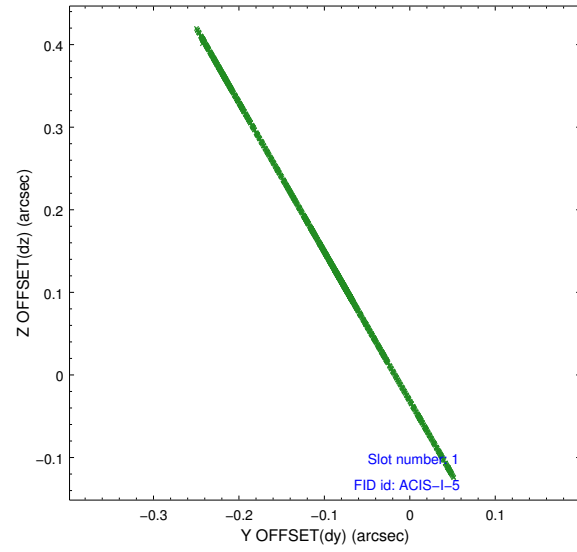


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.39360004

A.2 Comments

Slot 6 was not utilized in this observation.
Window preference met.