

V&V Reference Report

L2 ASCDS Version : 10

Observation 14585 - L2 Version 2
Chandra X-Ray Center

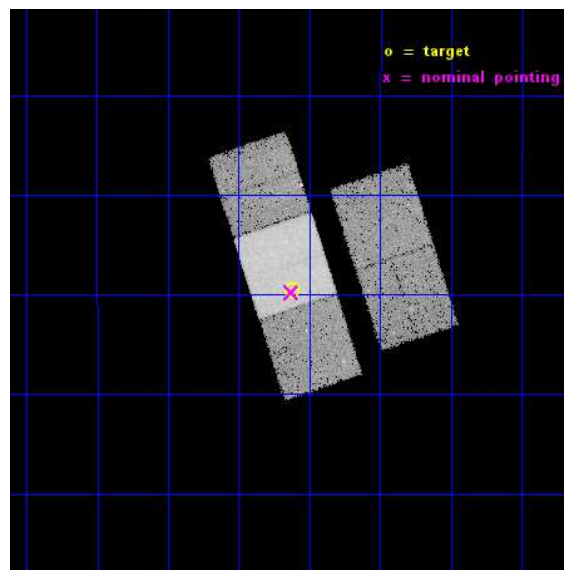
L2 Processing Date : Dec 4 2014

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

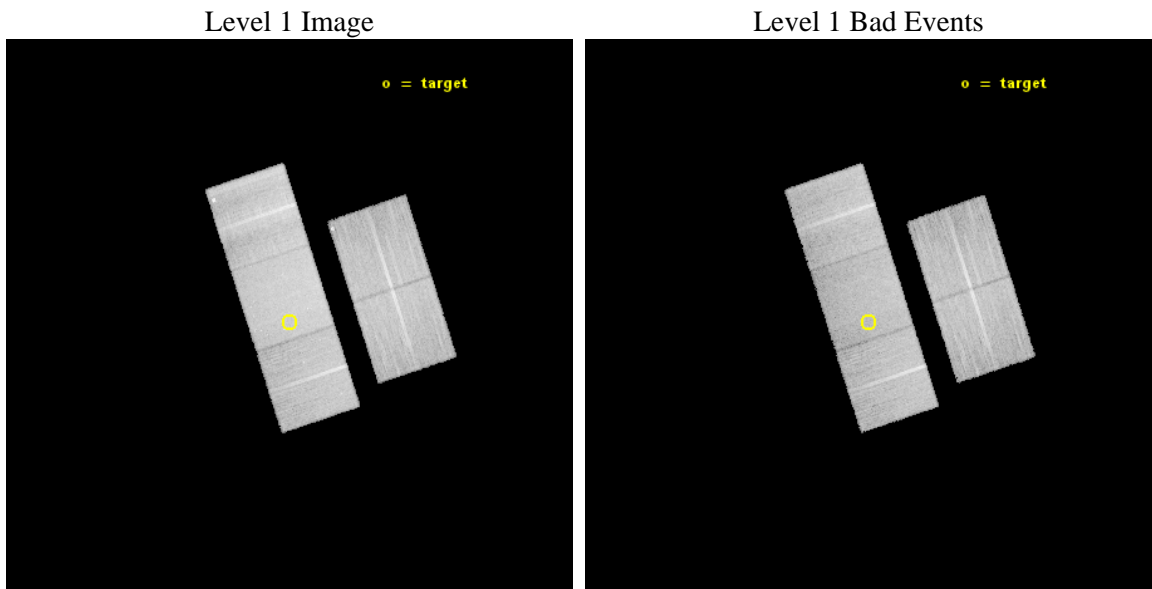
seq_num	200886	Sequence number
obs_id	14585	Observation id
title	COMPACT AND DIFFUSE X-RAY SOURCES IN THE YOUNGEST PLANETARY NEBULAE	
observer	Dr. Joel Kastner	Principal investigator
object	IC 1295	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	283.655	Observer's specified target RA [deg]
dec_targ	-8.827528	Observer's specified target Dec [deg]
ra_nom	283.65693274711	Nominal RA [deg]
dec_nom	-8.8298637799453	Nominal Dec [deg]
roll_nom	251.8239372888	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30066.900231242	Sum of GTIs [s]
livetime	29674.054044791	Livetime [s]
ontime2	30066.900231242	Sum of GTIs [s]
ontime3	30066.900231242	Sum of GTIs [s]
ontime6	30063.759170711	Sum of GTIs [s]
ontime7	30066.900231242	Sum of GTIs [s]
ontime8	30063.75917089	Sum of GTIs [s]
l2events	148089	Number of level 2 events



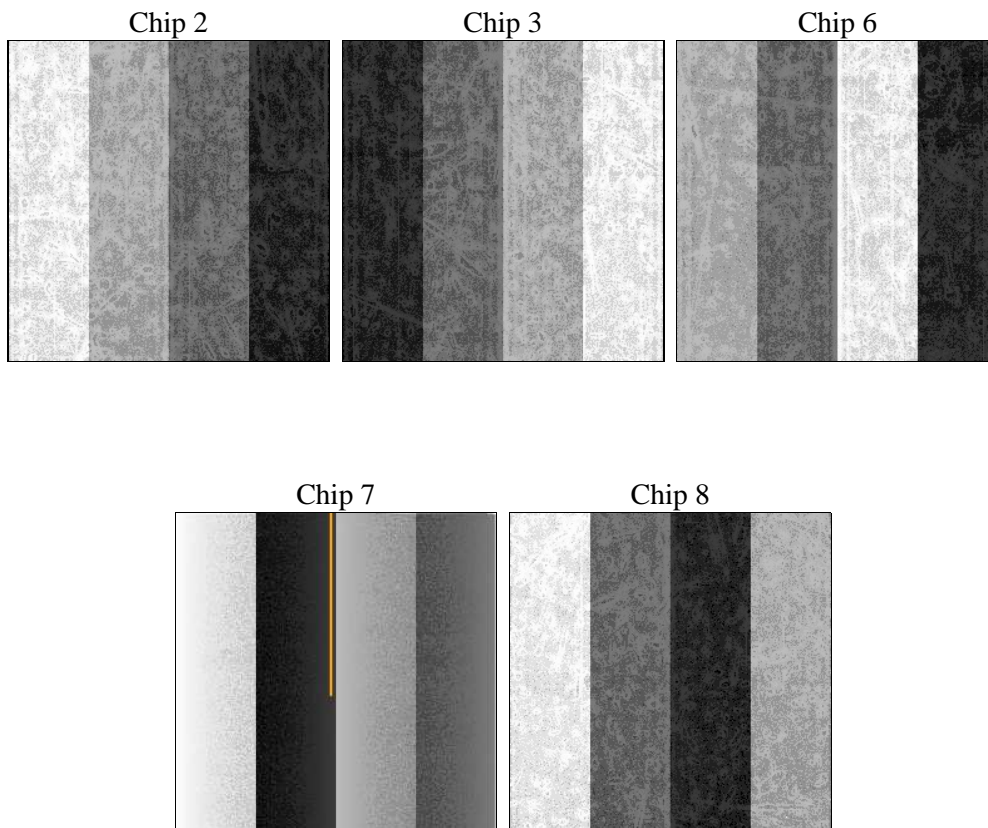
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	30066.900231242	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	30066.900231242	Sum of GTIs [s]
date	2014-12-04T22:09:34	Date and time of file creation	ontime3	30066.900231242	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	30063.759170711	Sum of GTIs [s]
			ontime7	30066.900231242	Sum of GTIs [s]
			ontime8	30063.75917089	Sum of GTIs [s]
			l1events	813046	Number of level 1 events

2.1.4 Events

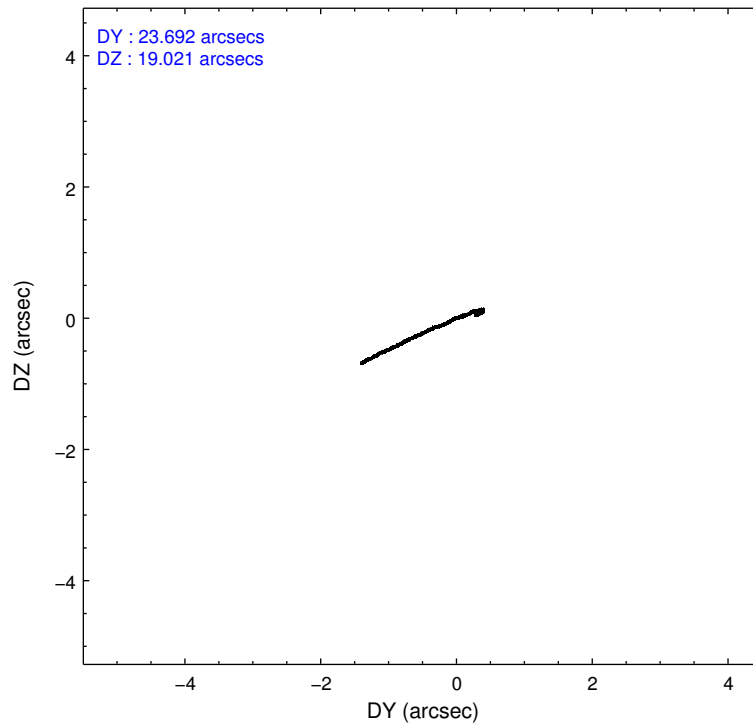
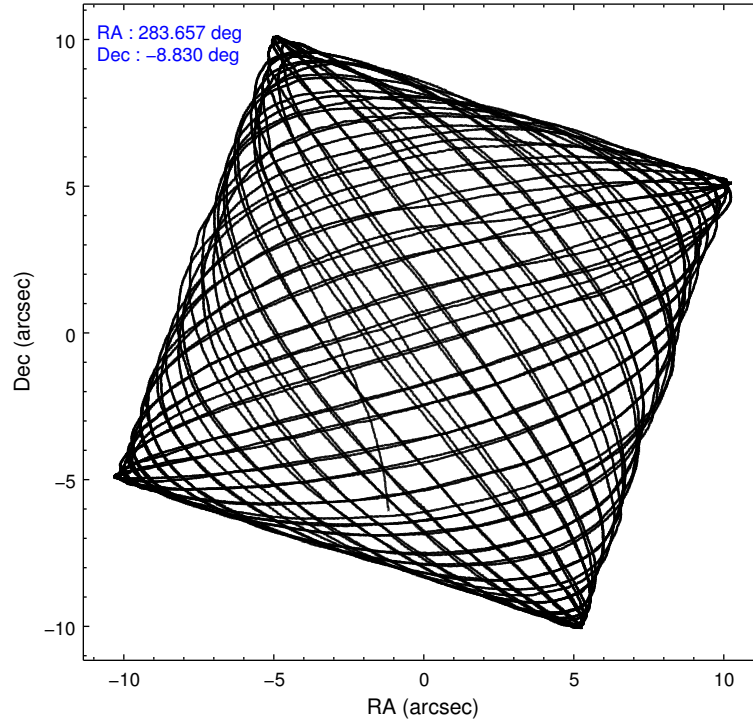
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	142788	139331	146411	197822	186694
rejected events	125654	121229	127411	111319	136935
rejected %	88%	87%	87%	56%	73%

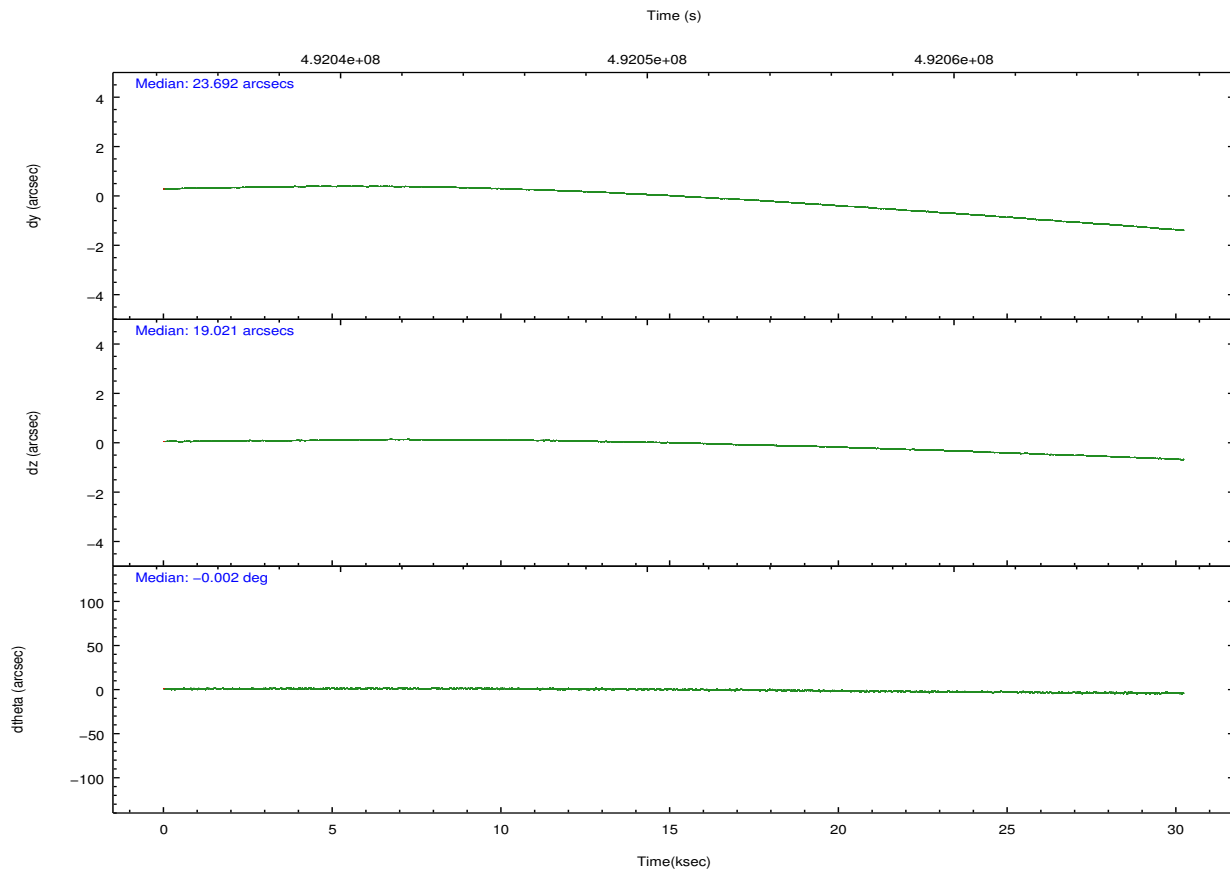
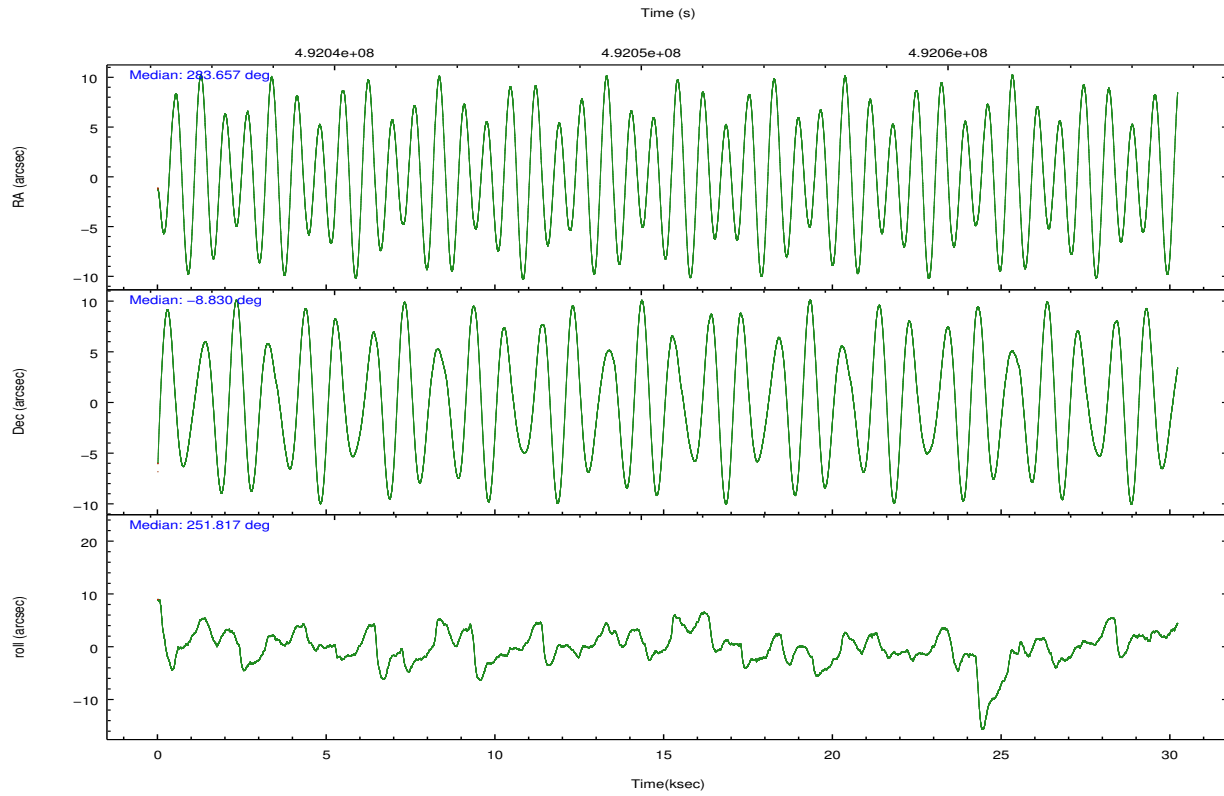
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	6638	7432	7111	8141	15183
	4%	5%	4%	4%	8%
grade 1 events	72	91	87	206	153
	0%	0%	0%	0%	0%
grade 2 events	3973	3746	4119	17822	11597
	2%	2%	2%	9%	6%
grade 3 events	1599	1745	1837	7277	5127
	1%	1%	1%	3%	2%
grade 4 events	1707	1771	1777	7349	4934
	1%	1%	1%	3%	2%
grade 5 events	6083	7897	7545	20202	11001
	4%	5%	5%	10%	5%
grade 6 events	3217	3409	4159	45922	12919
	2%	2%	2%	23%	6%
grade 7 events	119499	113240	119776	90903	125780
	83%	81%	81%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	283.650902	283.6569327471108	CCD I2 on	O3	Y
[deg] Pointing Dec	-8.803181	-8.829863779945333	CCD I3 on	O2	Y
[deg] Pointing Roll	251.666383	251.823937288804	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	492035976.184000	492035023.964	CCD S5 on	N	N
Observation start date	2013-08-04T20:38:29	2013-08-04T20:23:43	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	492065976.184000	492066648.29073	On-chip summing requested	N	N
Observation end date	2013-08-05T04:58:29	2013-08-05T05:10:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



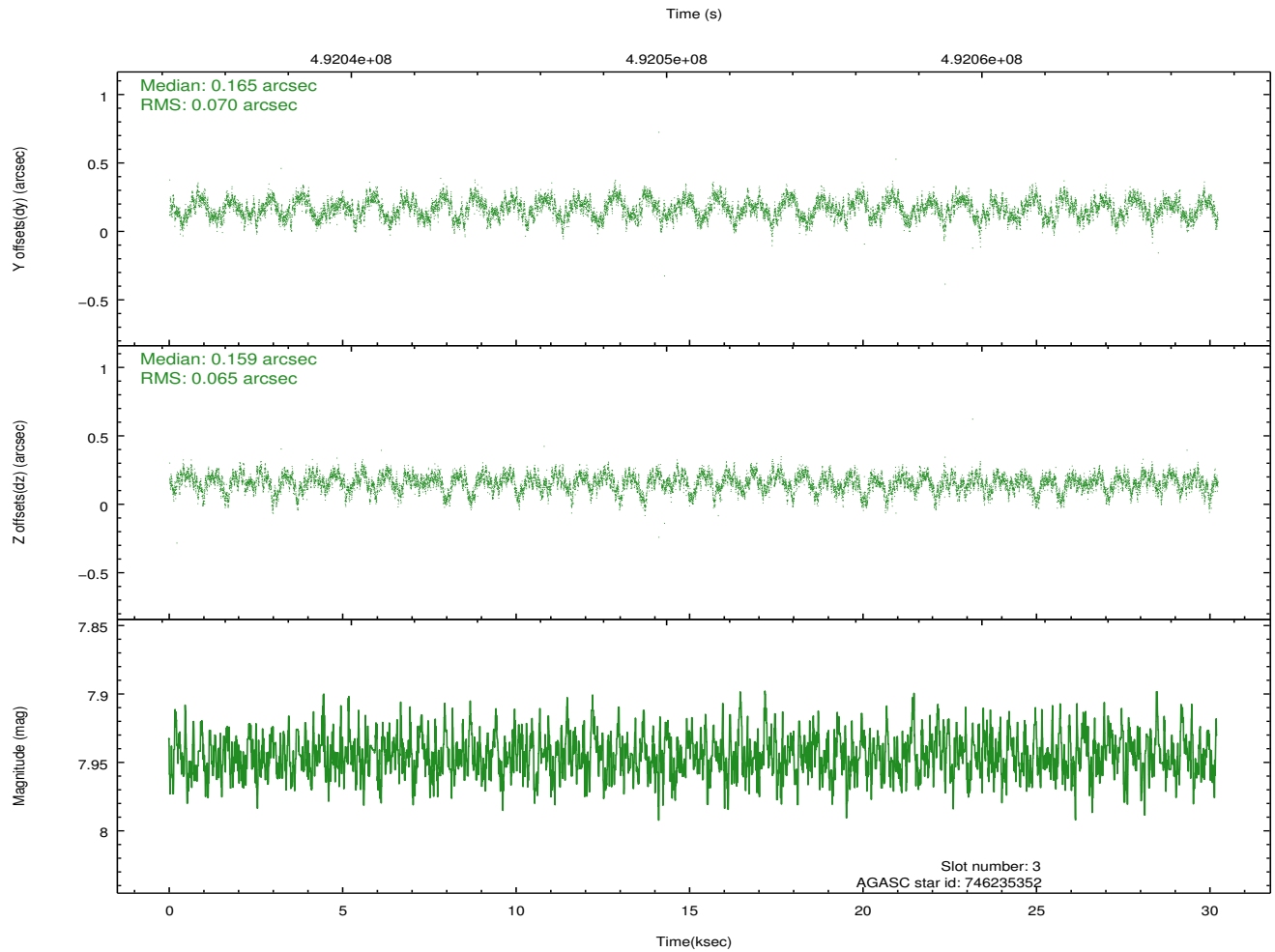
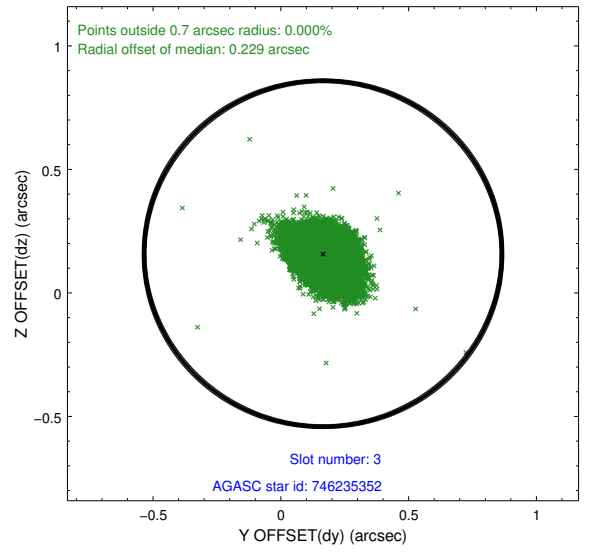
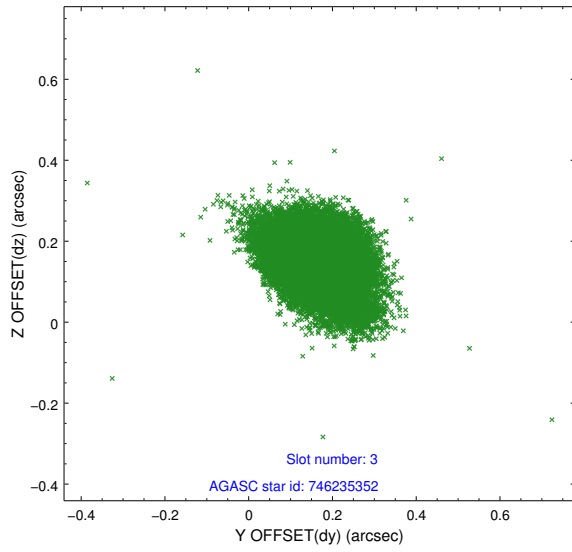


Slot Statistics

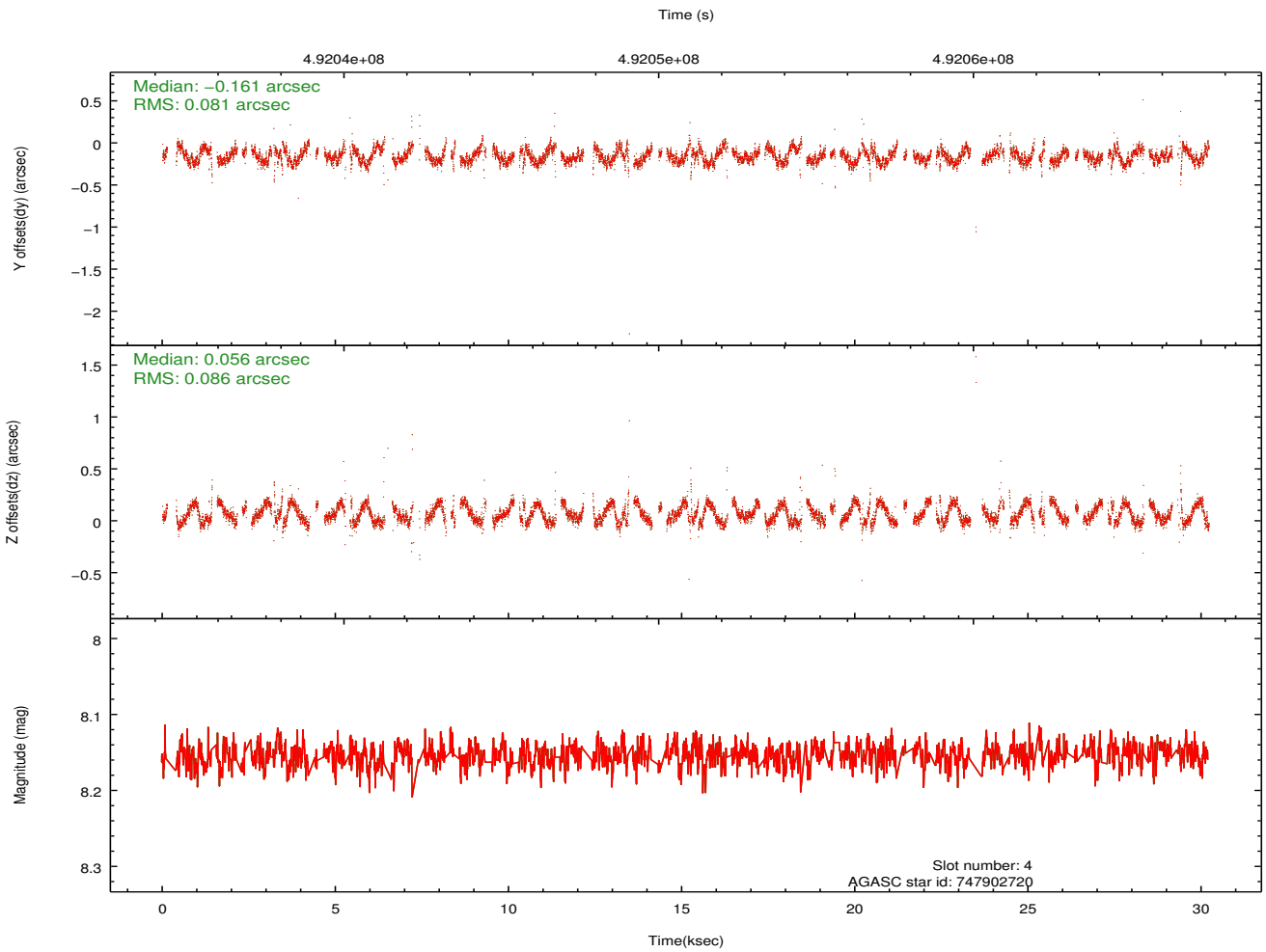
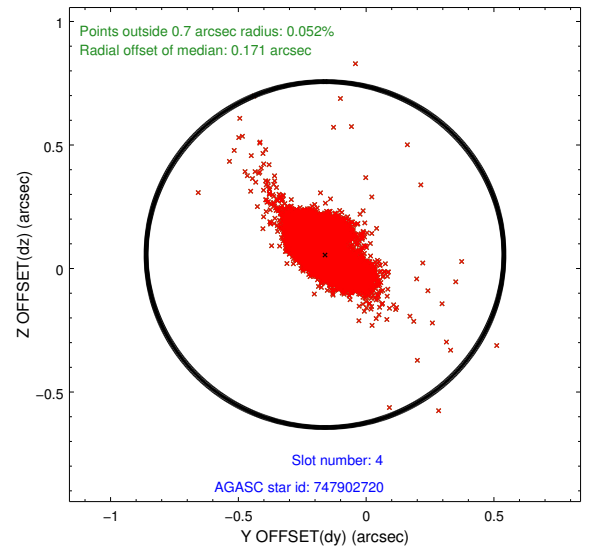
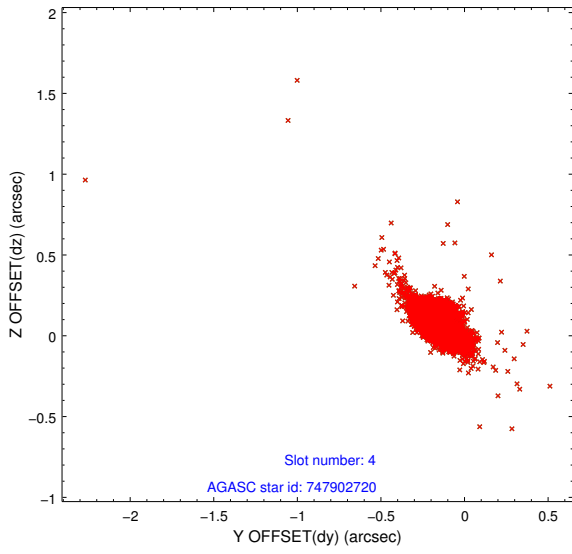
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.04	7371	-0.217	-0.130	0.018	0.045	0.000000	0.000000	-776.99	-1740.49
1	FID		ACIS-S-4	7.13	7370	0.239	0.130	0.016	0.042	0.000000	0.000000	2136.78	168.09
2	FID		ACIS-S-6	7.26	7371	-0.052	0.012	0.014	0.025	0.000000	0.000000	385.34	805.49
3	GUIDE	used	746235352	7.95	14732	0.165	0.159	0.100	0.165	283.027477	-9.082655	1654.58	-1786.16
4	BAD	used	747902720	8.15	11535	-0.161	0.056	0.119	0.186	284.184464	-8.428907	-1876.83	1379.08
5	GUIDE	used	747912472	8.94	14655	0.084	0.015	0.097	0.159	284.175418	-8.553716	-1438.56	1490.54
6	GUIDE	used	747914792	7.17	14739	-0.154	0.070	0.078	0.133	283.972099	-8.794515	-388.71	1075.36
7	GUIDE	used	747897648	7.26	14737	0.031	-0.284	0.070	0.125	283.483122	-9.370309	2125.87	76.79

2.4 Star Slots

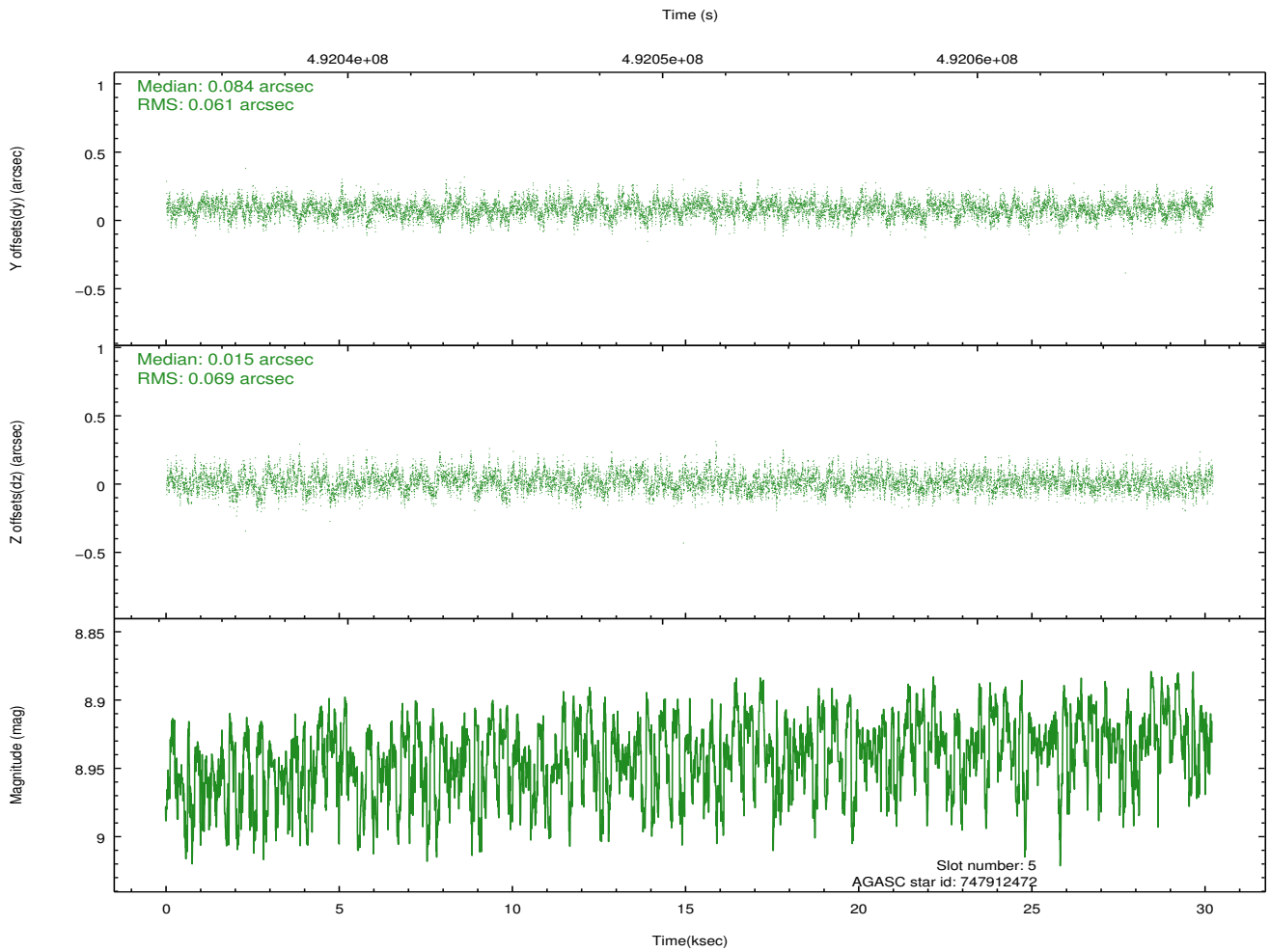
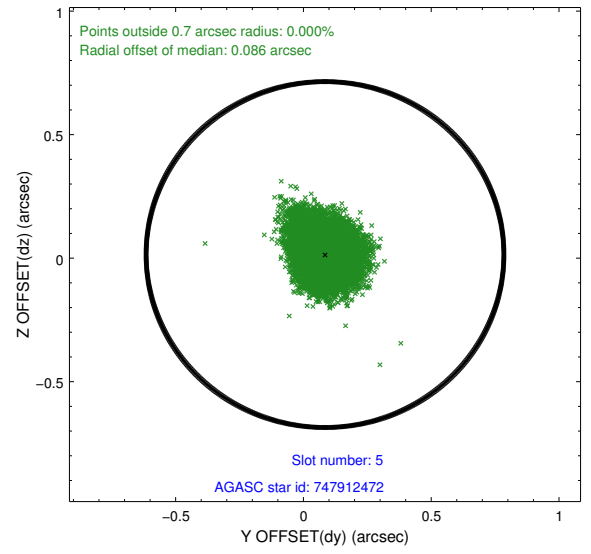
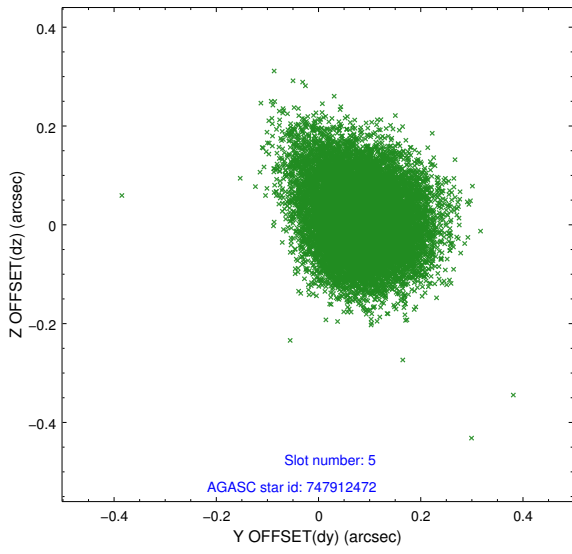
2.4.1 Slot 3



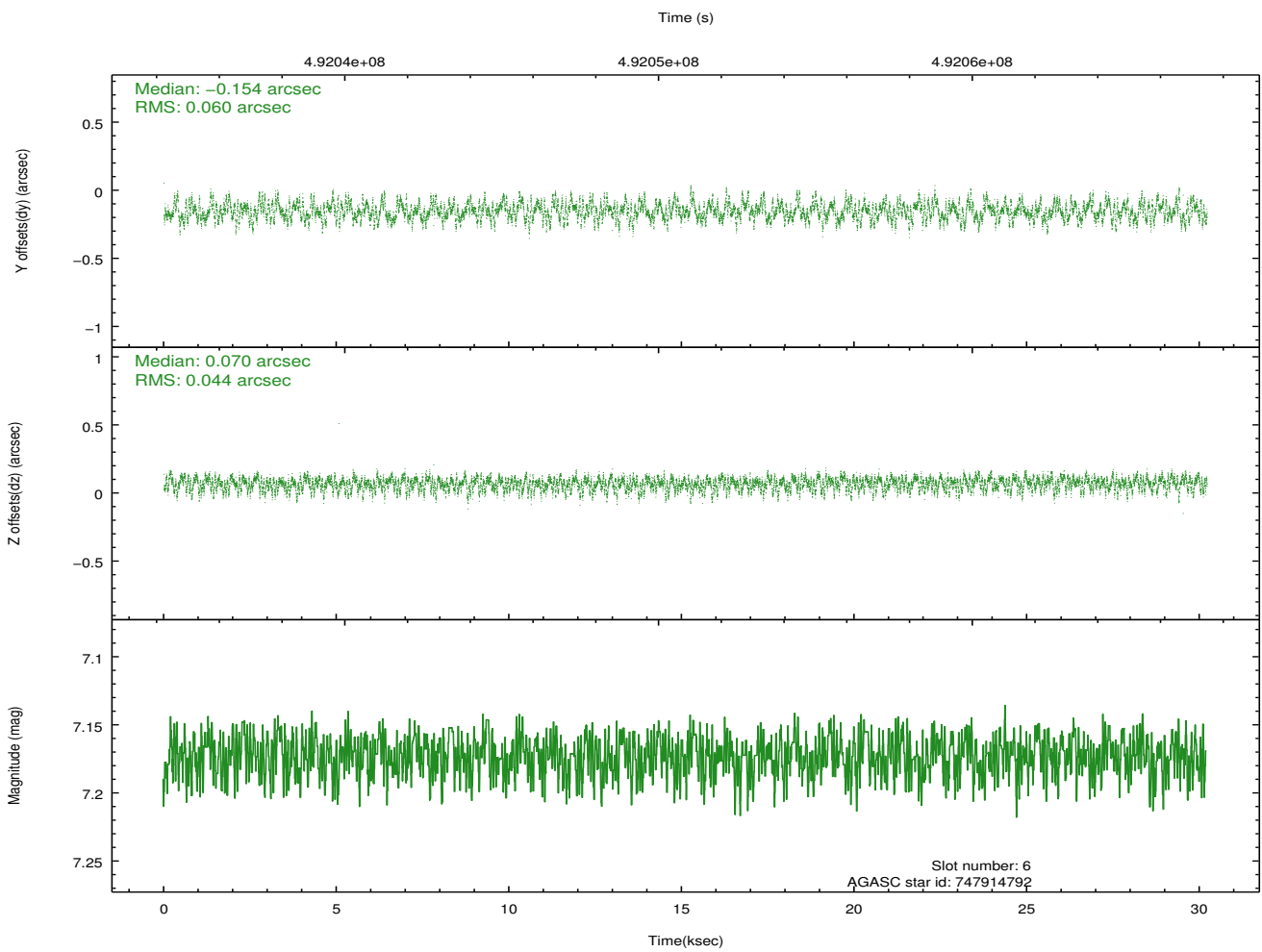
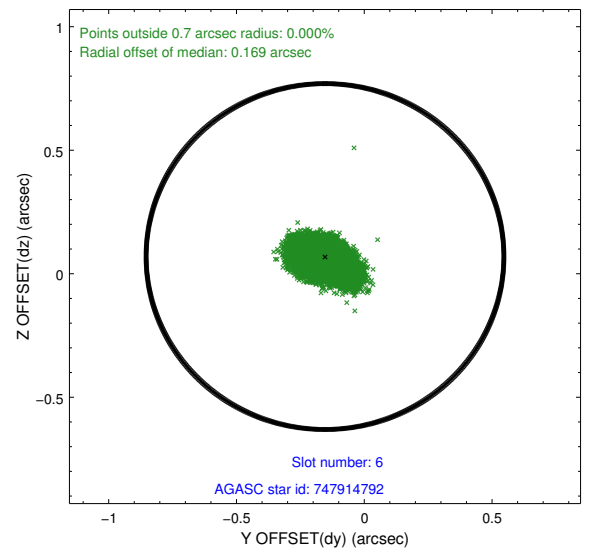
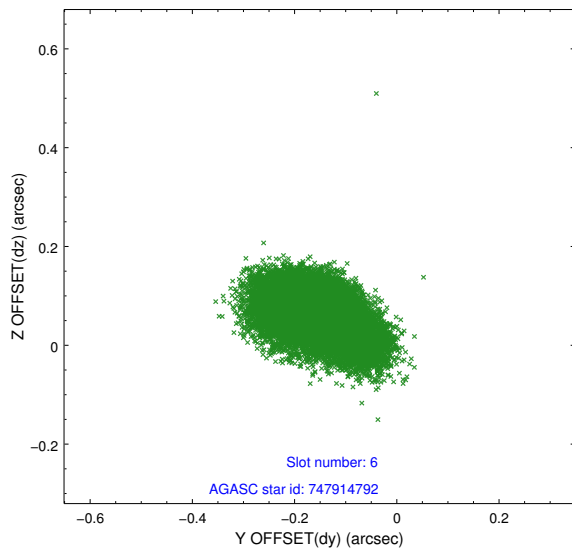
2.4.2 Slot 4



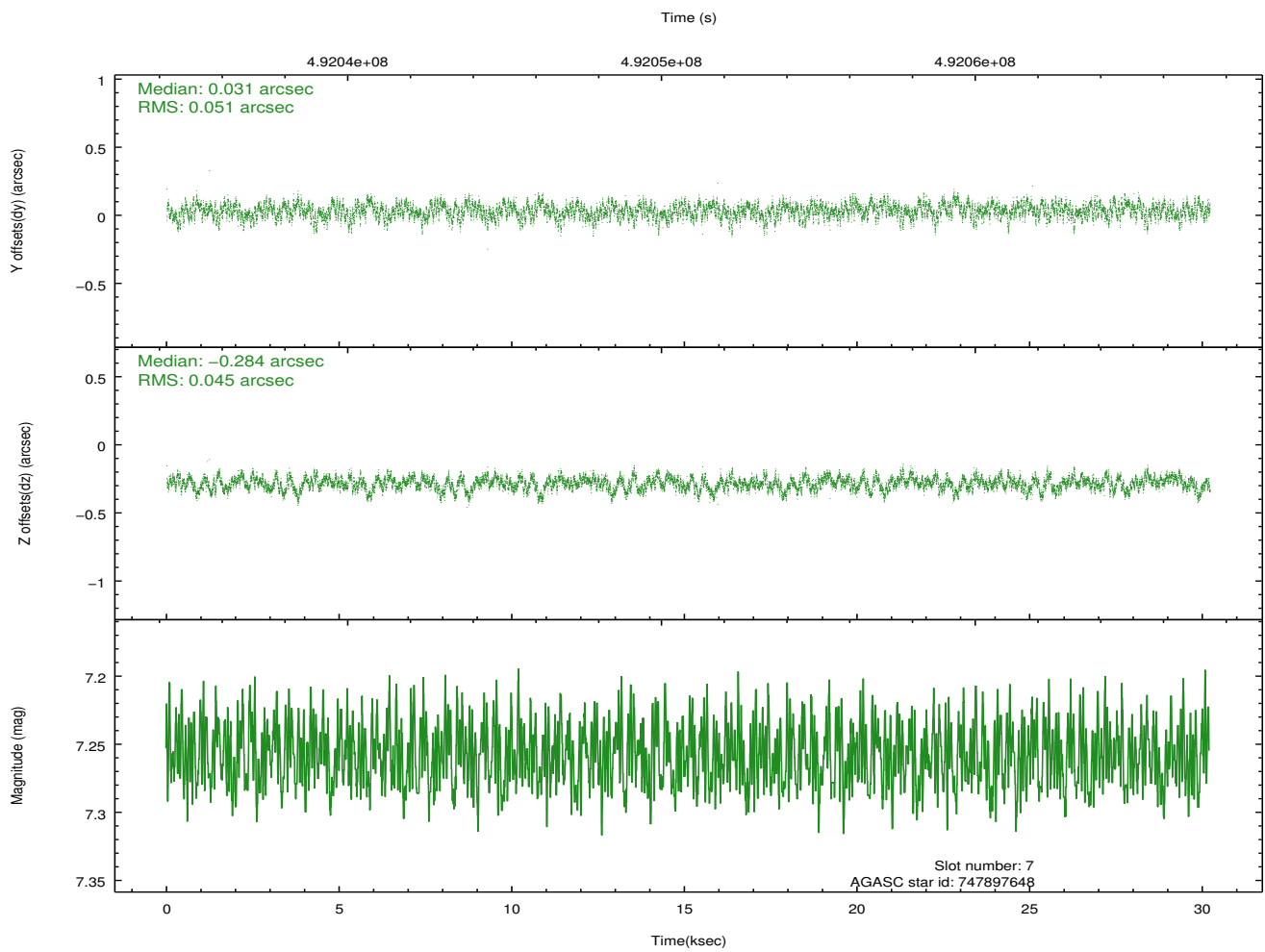
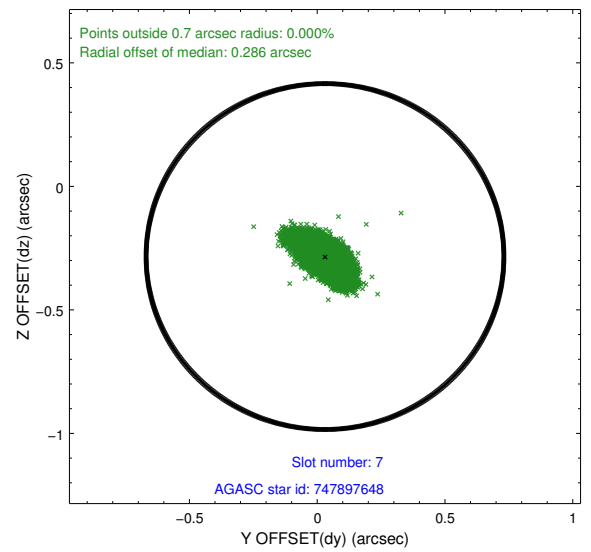
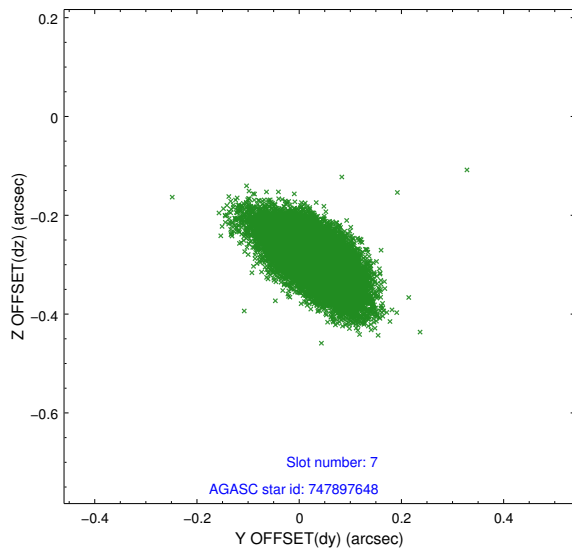
2.4.3 Slot 5



2.4.4 Slot 6

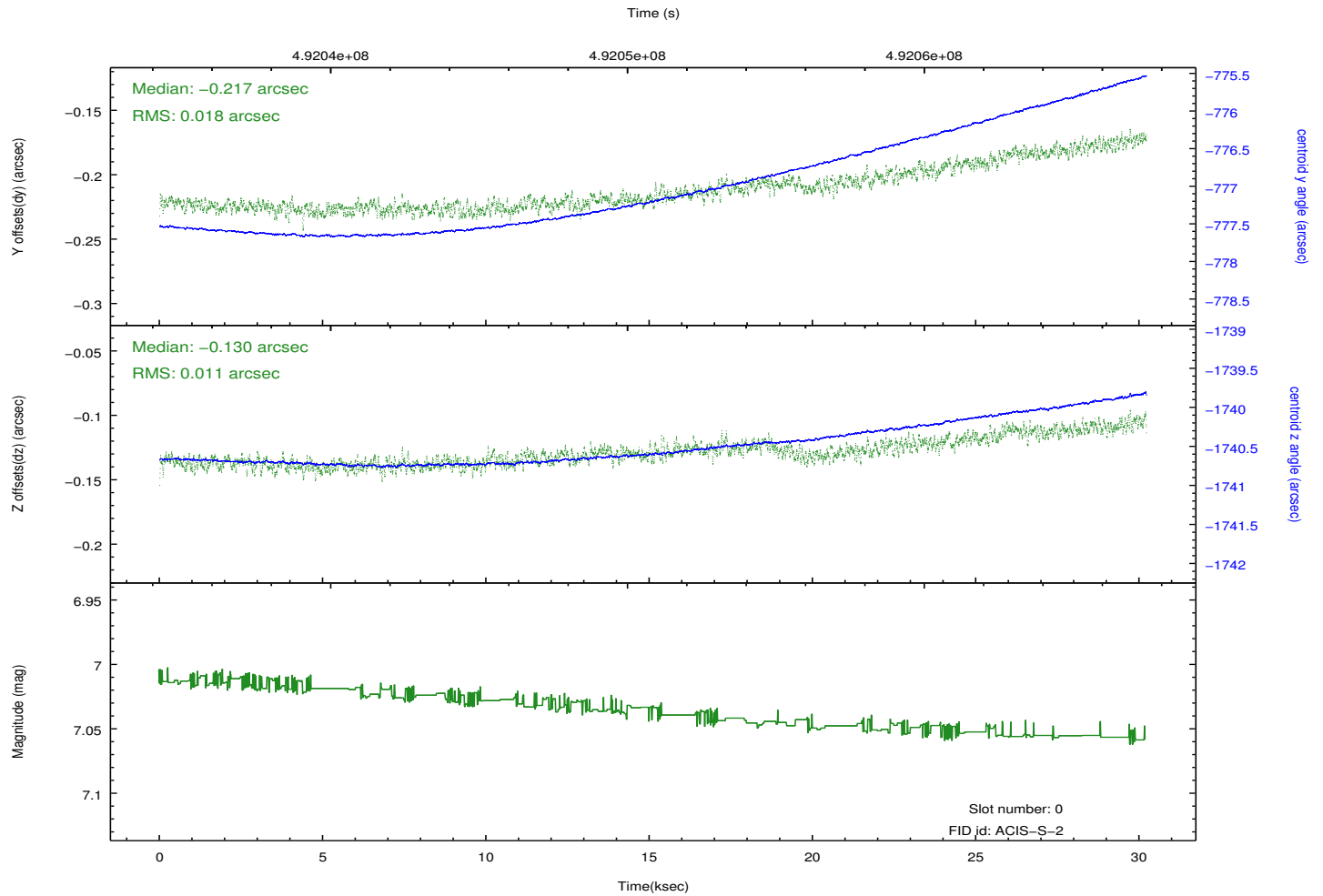
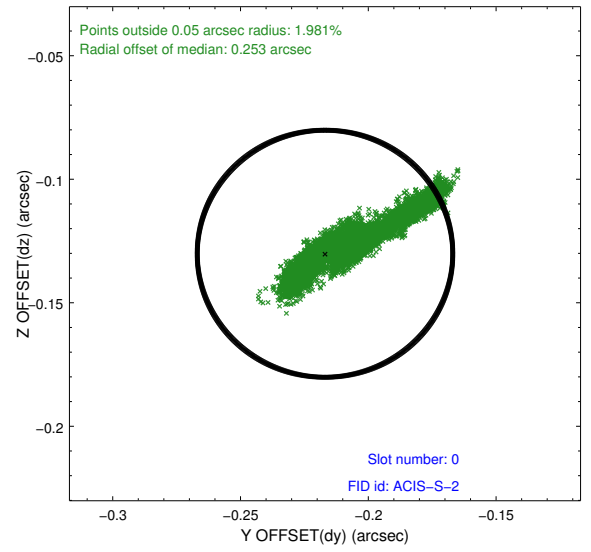
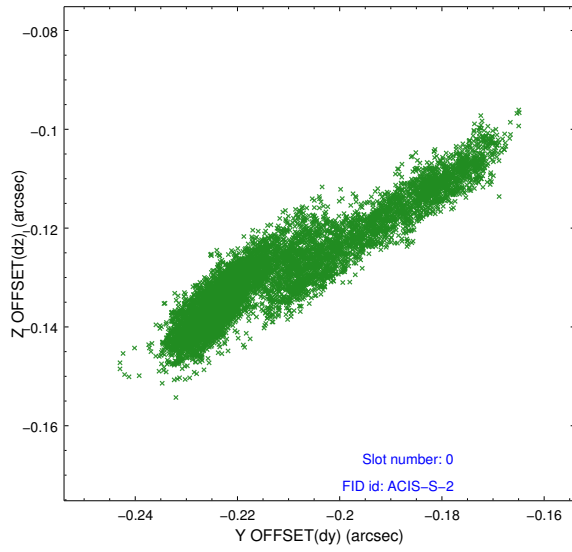


2.4.5 Slot 7

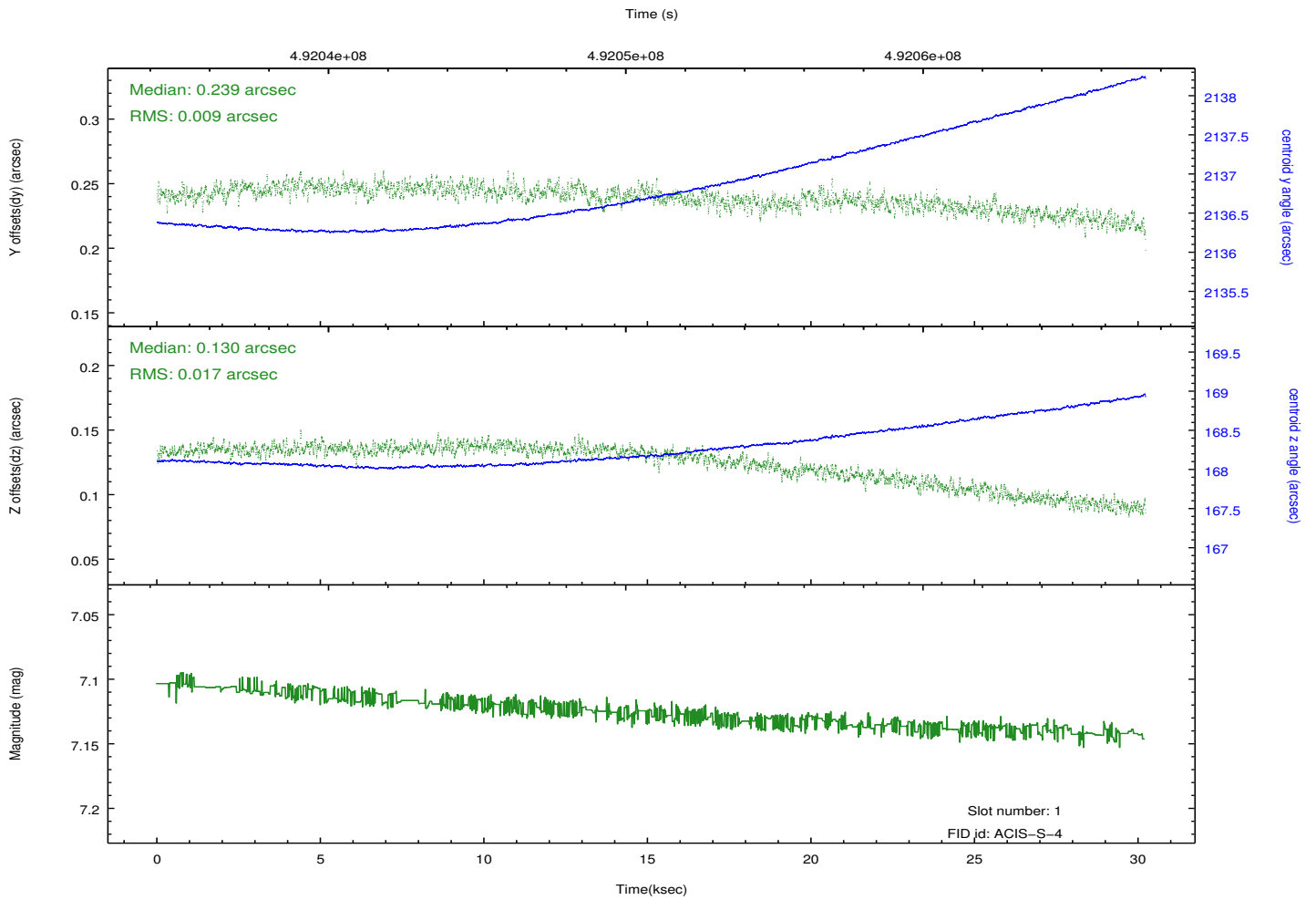
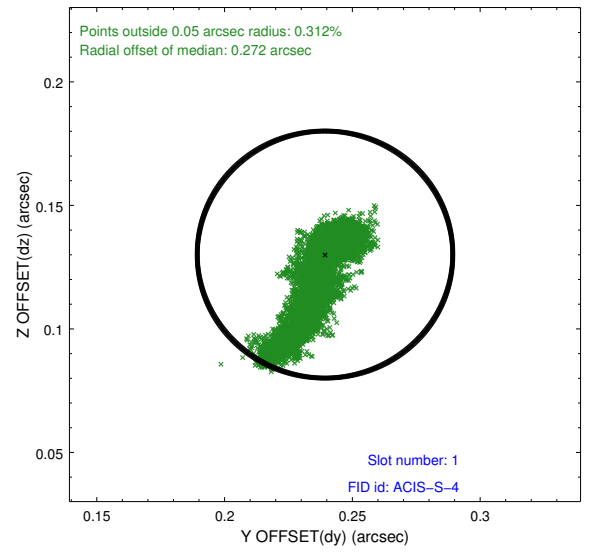
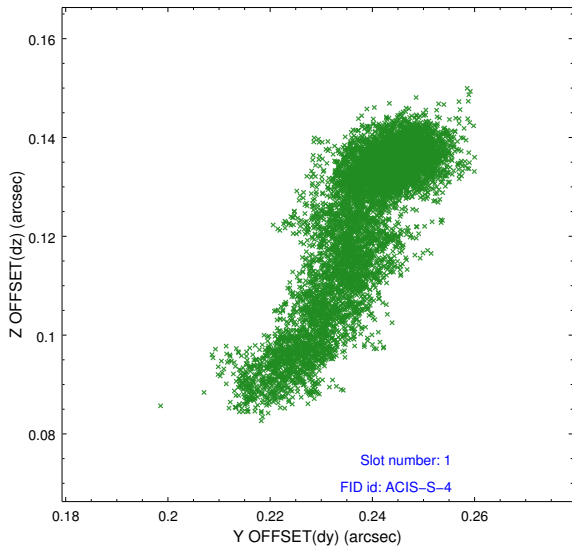


2.5 FID Slots

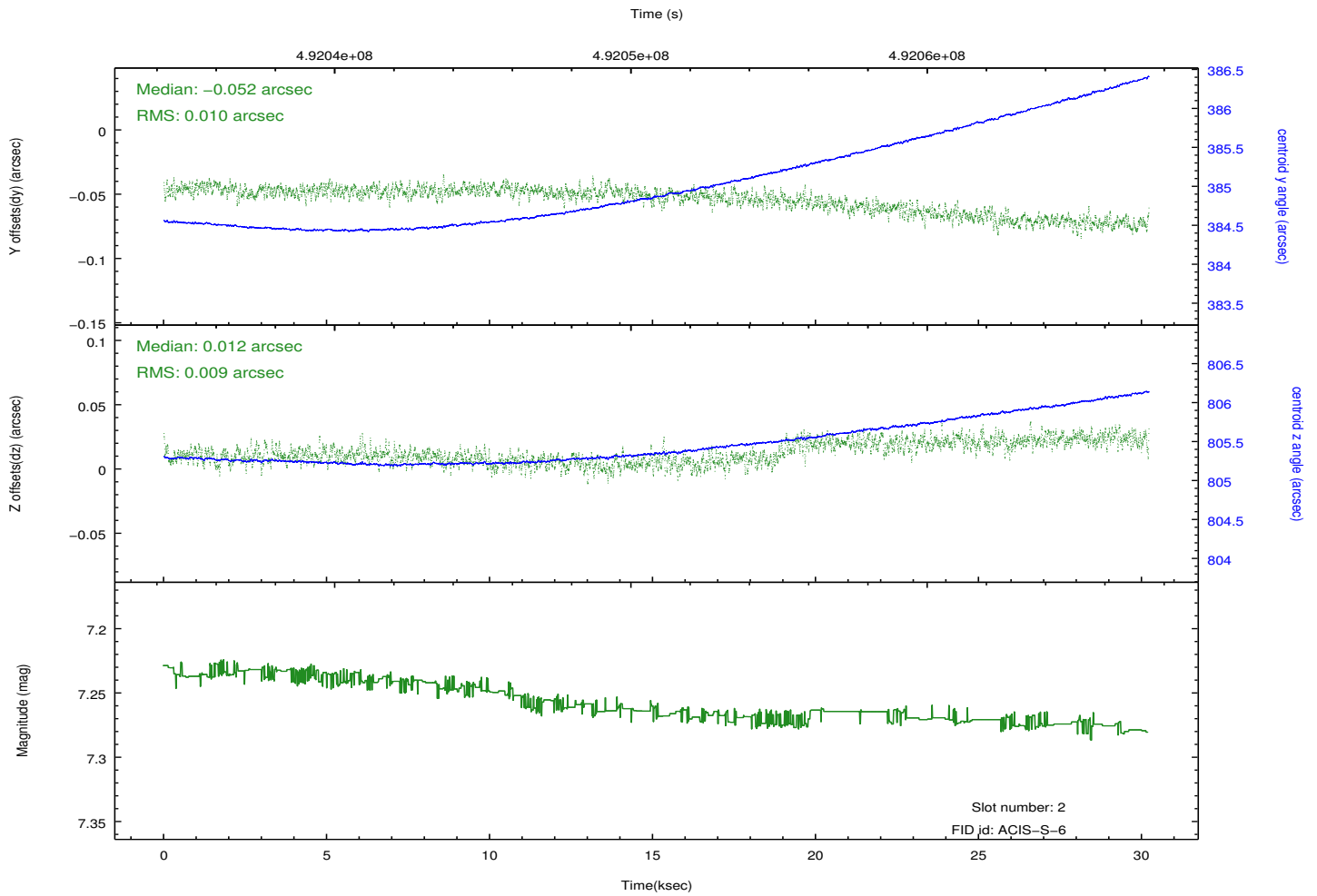
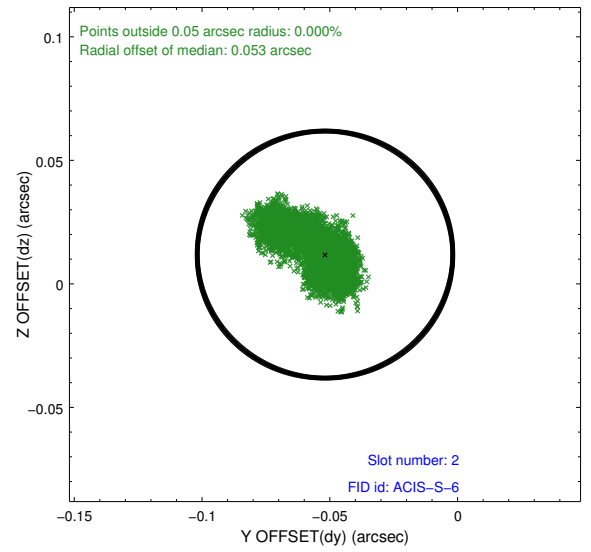
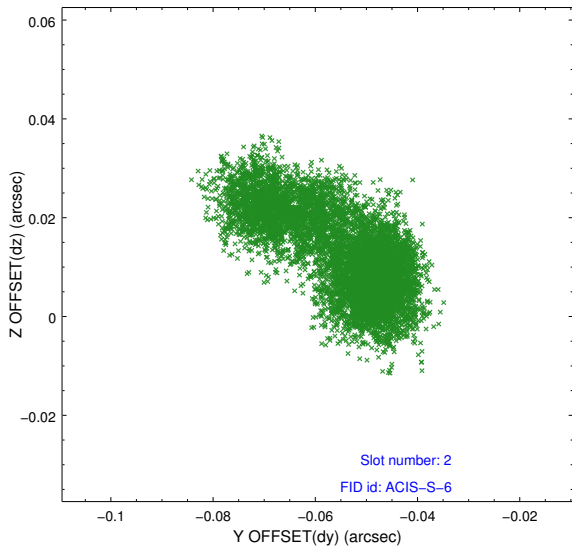
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.066900231242

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.