

V&V Reference Report

L2 ASCDS Version : 10

Observation 14582 - L2 Version 2
Chandra X-Ray Center

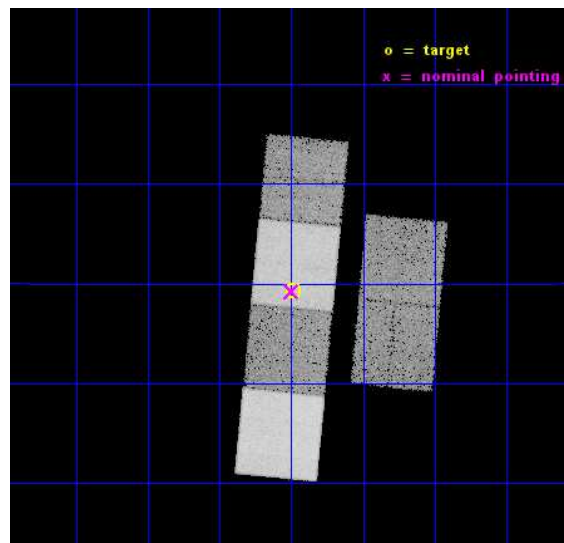
L2 Processing Date : Dec 6 2014

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1 Front

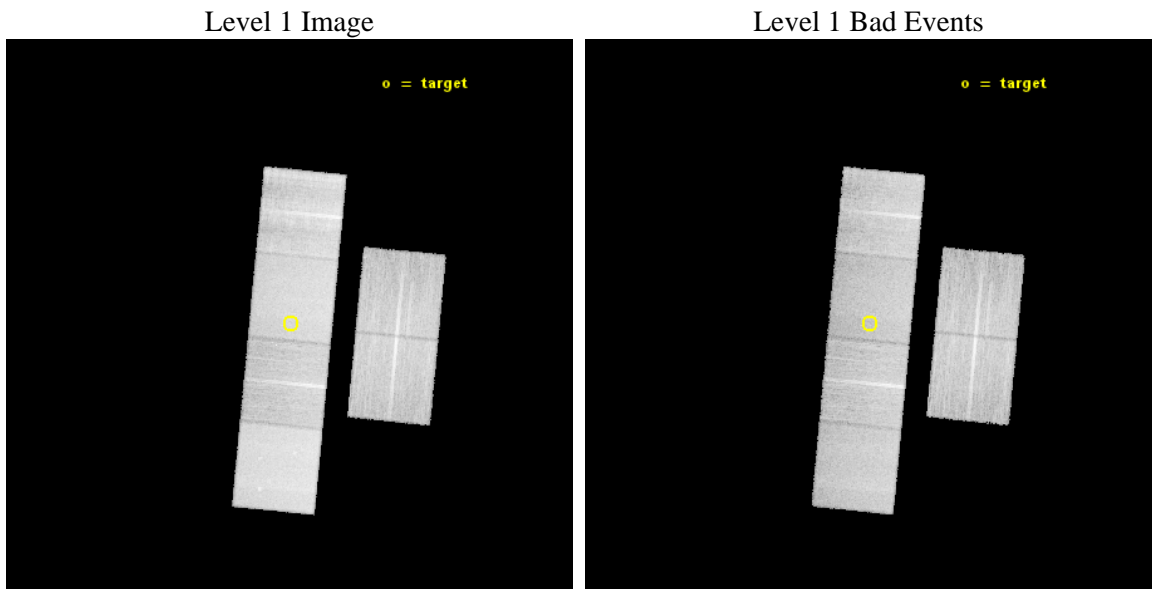
seq_num	200883	Sequence number
obs_id	14582	Observation id
title	COMPACT AND DIFFUSE X-RAY SOURCES IN THE YOUNGEST PLANETARY NEBULAE	
observer	Dr. Joel Kastner	Principal investigator
object	LBN 036.00-01.26	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	285.497083	Observer's specified target RA [deg]
dec_targ	2.155	Observer's specified target Dec [deg]
ra_nom	285.49978542341	Nominal RA [deg]
dec_nom	2.1536334528777	Nominal Dec [deg]
roll_nom	275.60310571697	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29964.799888432	Sum of GTIs [s]
livetime	29585.367549608	Livetime [s]
ontime2	29964.799888432	Sum of GTIs [s]
ontime3	29964.693155527	Sum of GTIs [s]
ontime5	29964.775235534	Sum of GTIs [s]
ontime6	29964.73419553	Sum of GTIs [s]
ontime7	29964.799888432	Sum of GTIs [s]
ontime8	29964.652115524	Sum of GTIs [s]
l2events	257838	Number of level 2 events



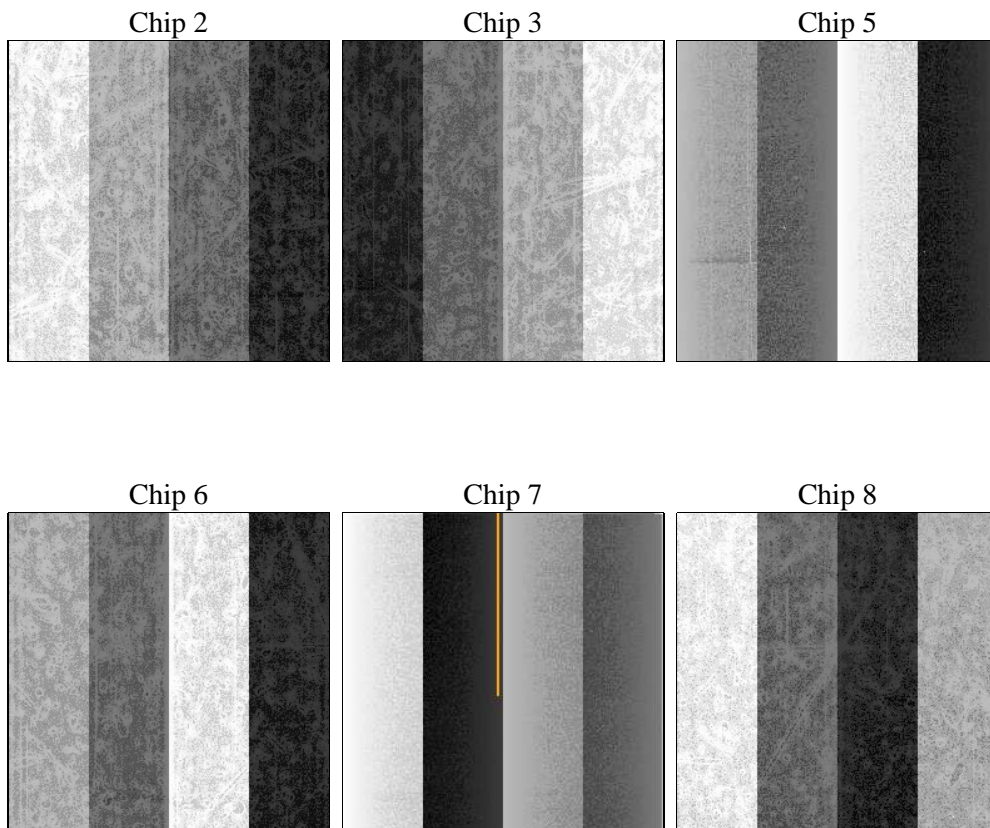
2 OBI

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	10.3.1	Processing system revision	ontime	29964.799888432	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	29964.799888432	Sum of GTIs [s]
date	2014-12-07T00:29:21	Date and time of file creation	ontime3	29964.693155527	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	29964.775235534	Sum of GTIs [s]
			ontime6	29964.73419553	Sum of GTIs [s]
			ontime7	29964.799888432	Sum of GTIs [s]
			ontime8	29964.652115524	Sum of GTIs [s]
			l1events	1081169	Number of level 1 events

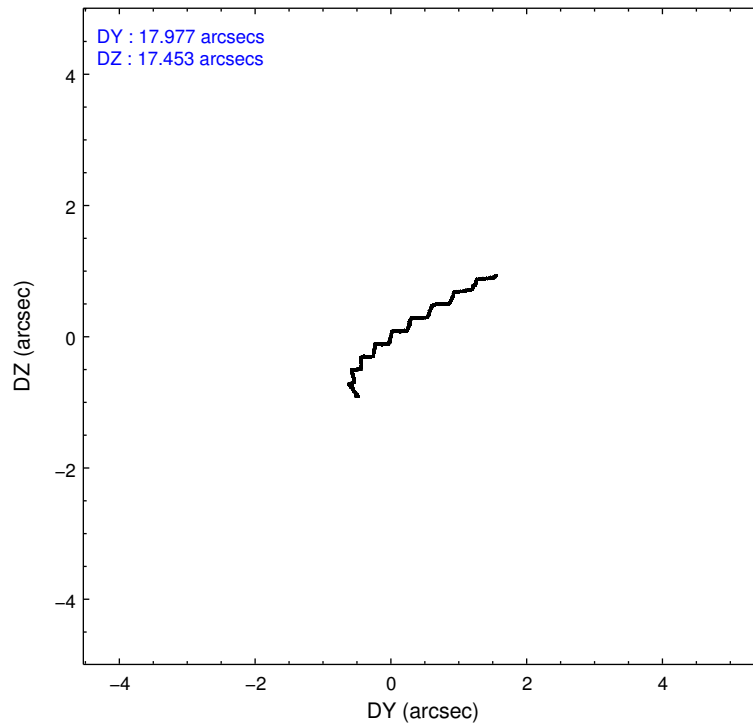
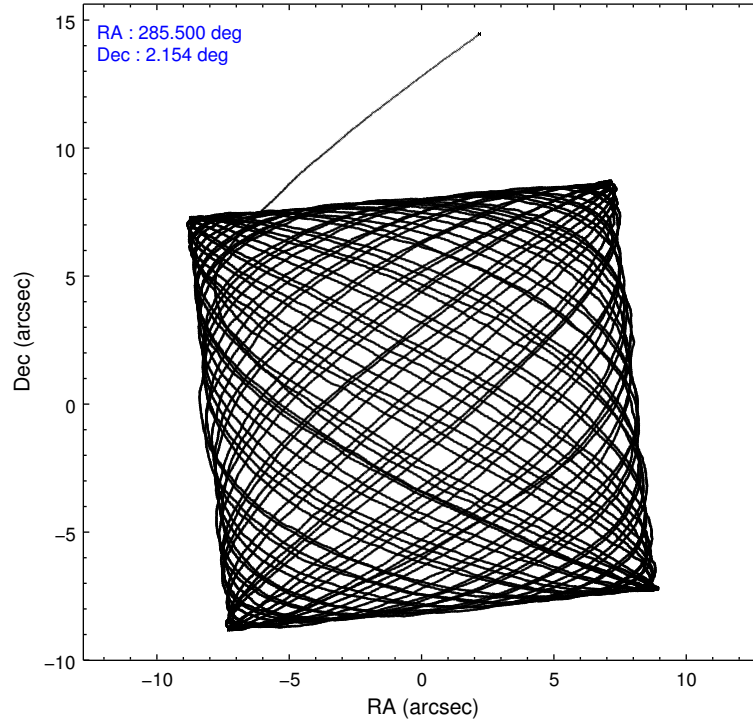
2.1.4 Events

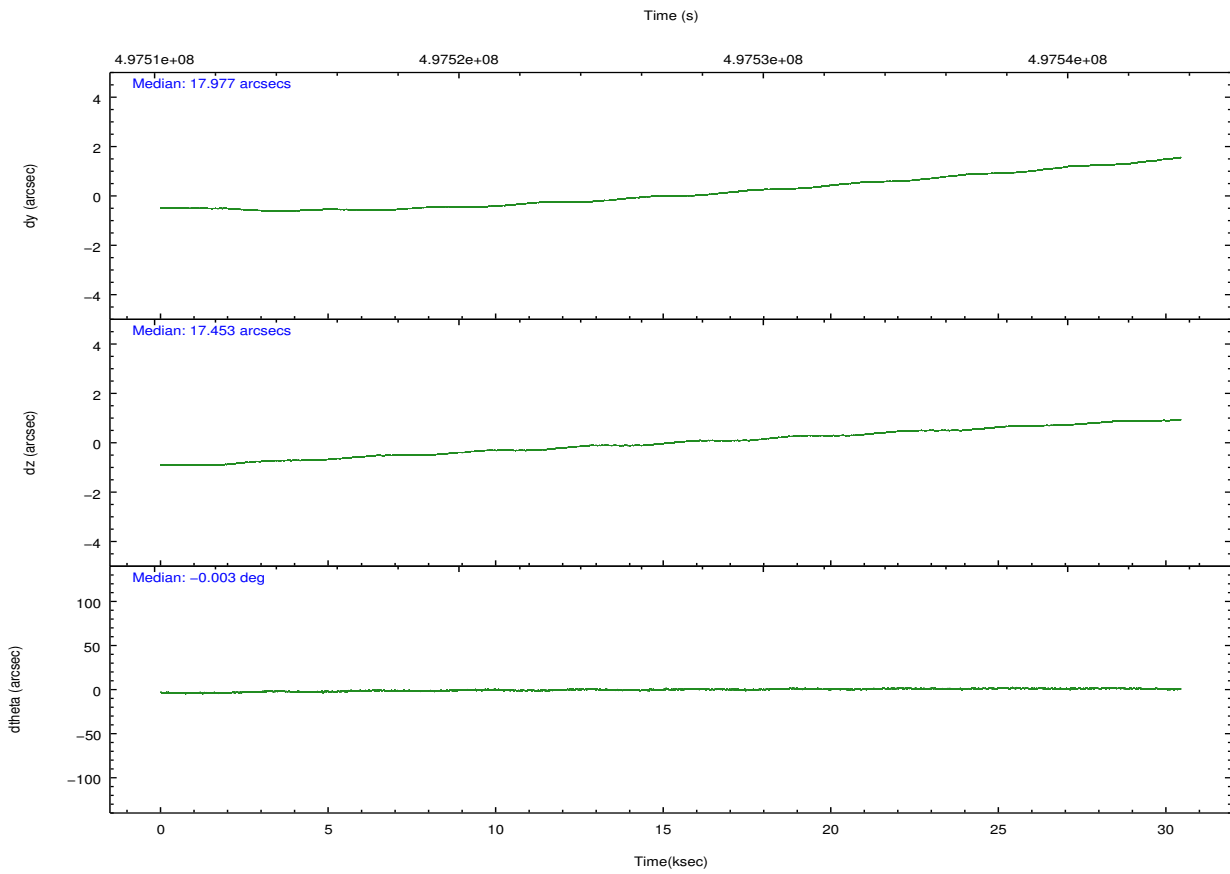
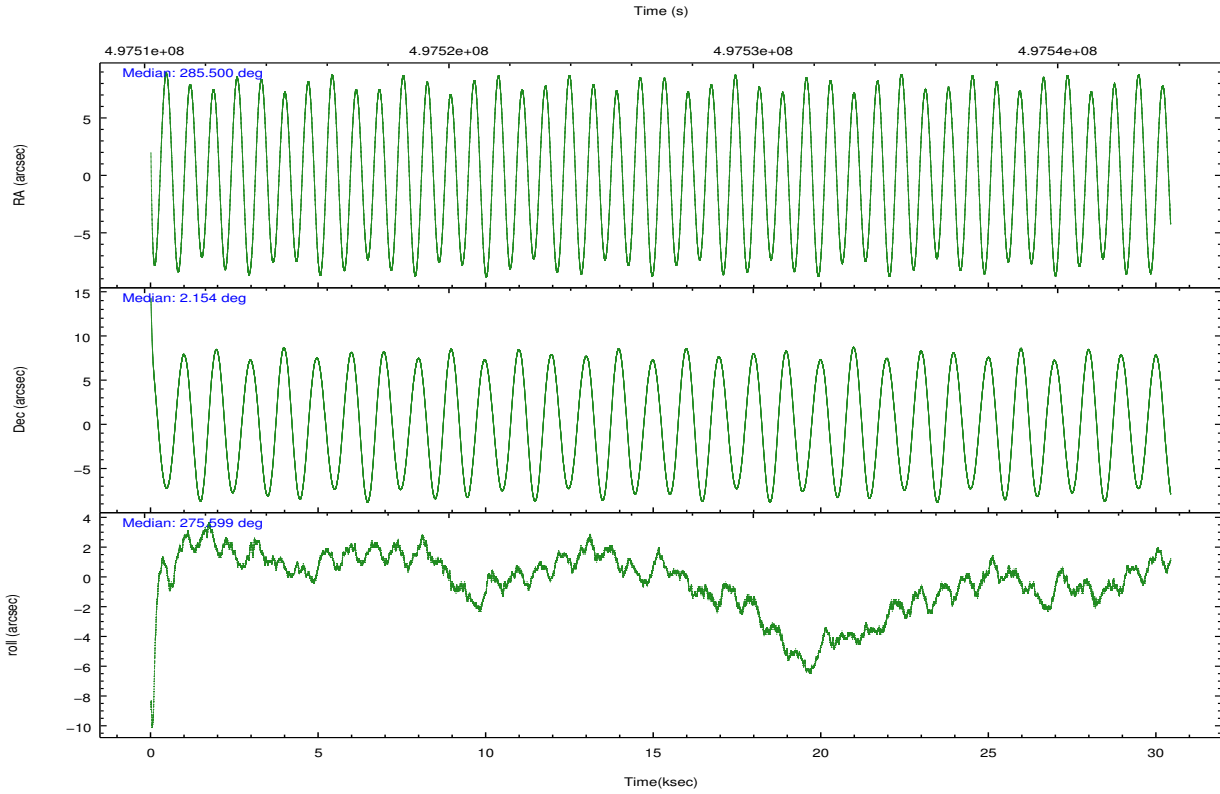
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	151686	141186	238518	150393	200274	199112	grade 0 events	5971	5765	7099	6359	7656	15311
rejected events	134636	124834	125001	132129	112974	145035		3%	4%	2%	4%	3%	7%
rejected %	88%	88%	52%	87%	56%	72%	grade 1 events	110	85	419	91	238	134
								0%	0%	0%	0%	0%	0%
							grade 2 events	4303	3716	35013	4192	17741	12758
								2%	2%	14%	2%	8%	6%
							grade 3 events	1692	1695	3977	1860	7355	5663
								1%	1%	1%	1%	3%	2%
							grade 4 events	1746	1795	3789	1763	7352	5530
								1%	1%	1%	1%	3%	2%
							grade 5 events	6707	7676	17576	7693	20540	11154
								4%	5%	7%	5%	10%	5%
							grade 6 events	3339	3388	63661	4097	47215	14819
								2%	2%	26%	2%	23%	7%
							grade 7 events	127818	117066	106984	124338	92177	133743
								84%	82%	44%	82%	46%	67%

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	285.483555	285.499785423413	CCD I2 on	O3	Y
[deg] Pointing Dec	2.175638	2.153633452877722	CCD I3 on	O2	Y
[deg] Pointing Roll	275.447092	275.6031057169689	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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)	497512186.184000	497511103.67535	CCD S5 on	N	N
Observation start date	2013-10-07T05:48:39	2013-10-07T05:31:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	497542186.184000	497542842.80208	On-chip summing requested	N	N
Observation end date	2013-10-07T14:08:39	2013-10-07T14:20:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



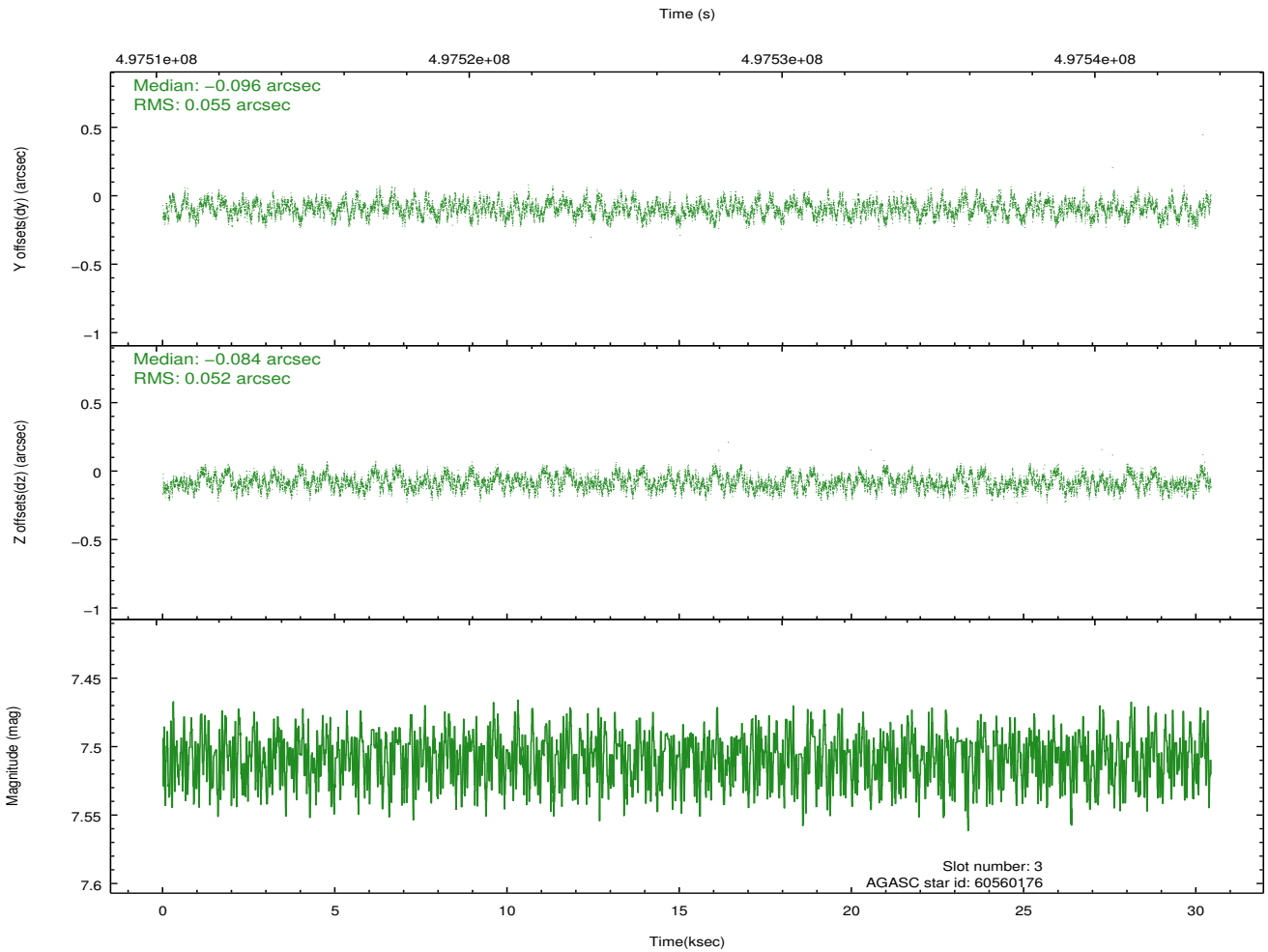
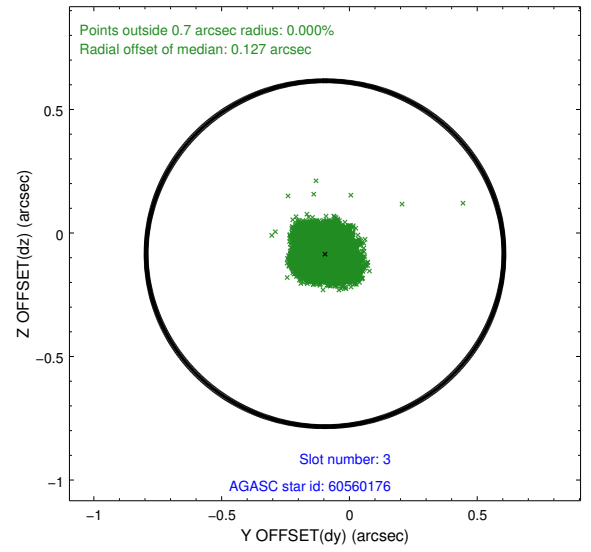
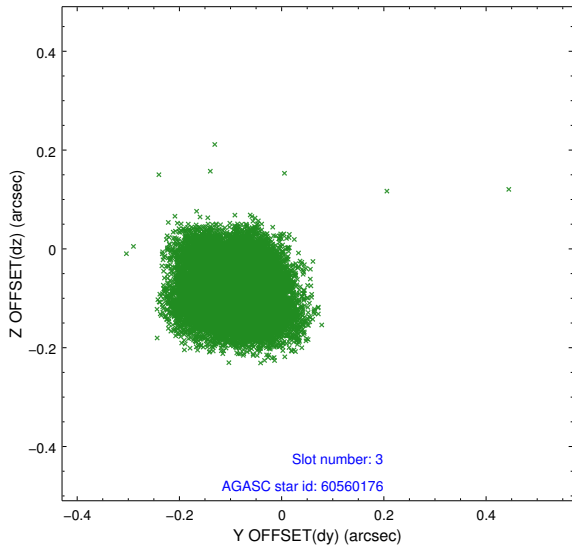


Slot Statistics

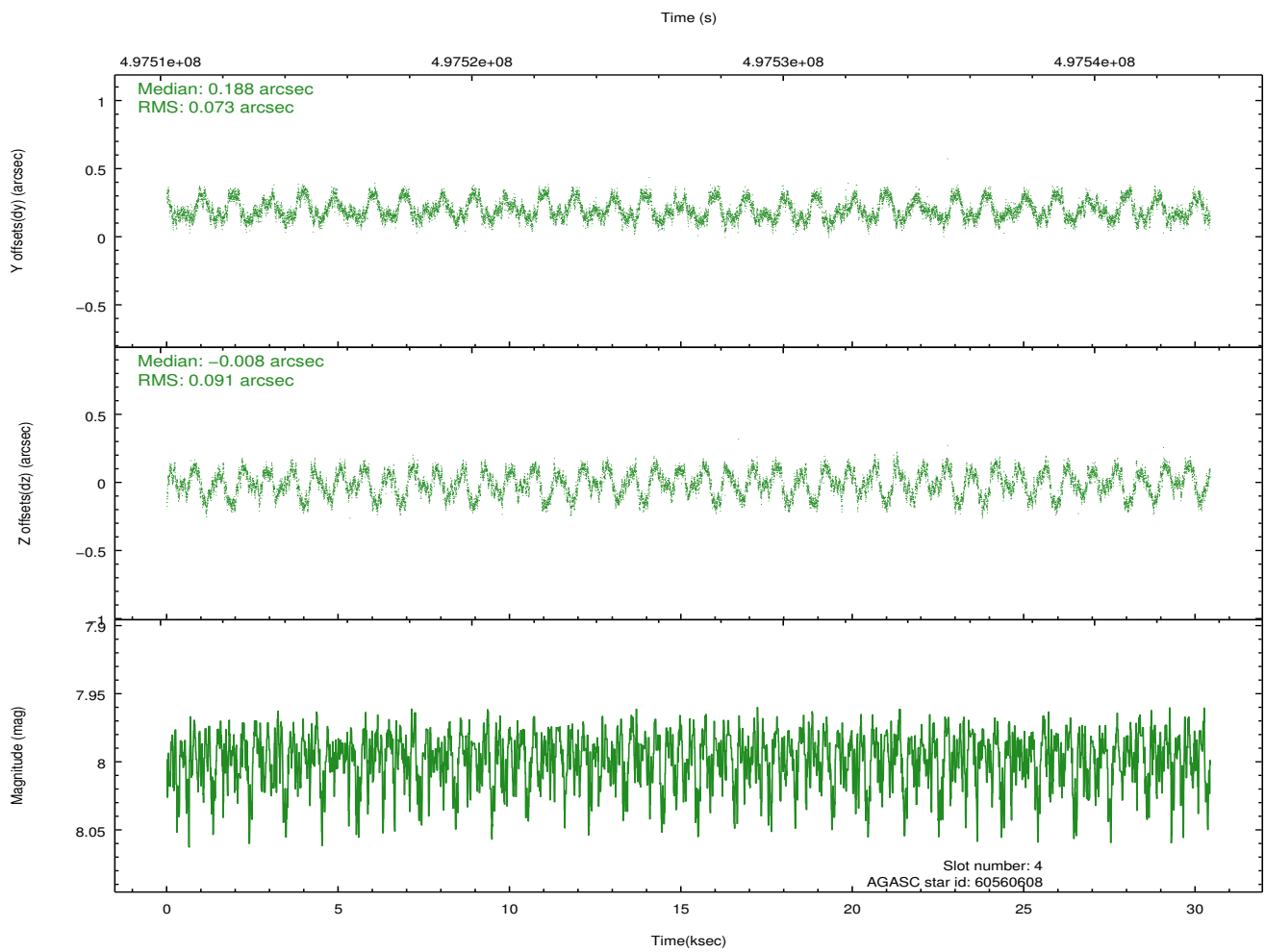
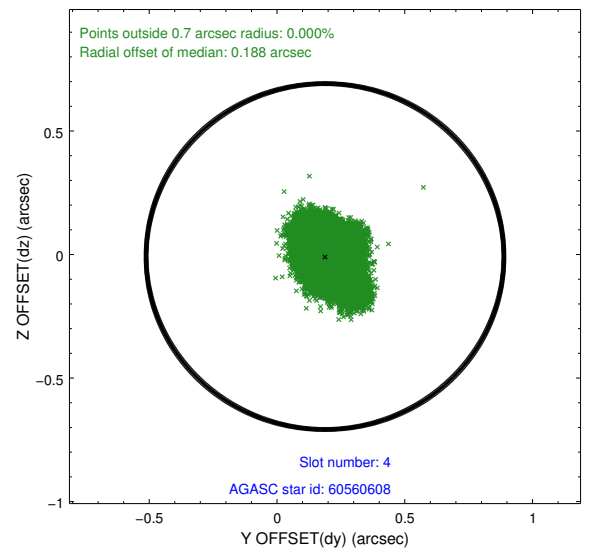
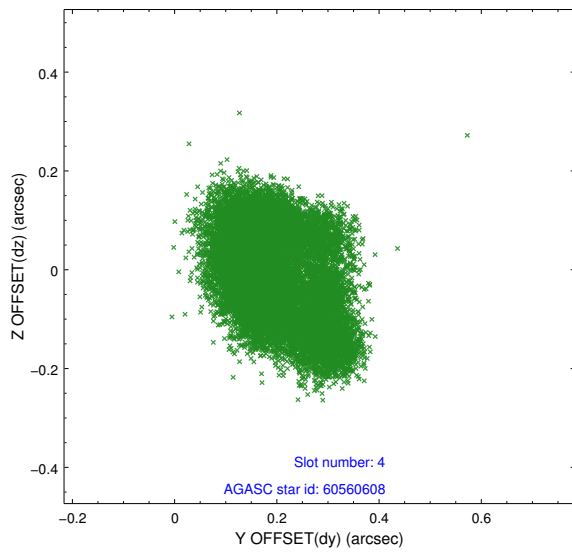
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	7422	-0.091	-0.052	0.018	0.031	0.000000	0.000000	-771.30	-1738.94
1	FID		ACIS-S-4	7.10	7422	0.255	0.056	0.016	0.041	0.000000	0.000000	2142.32	169.55
2	FID		ACIS-S-5	7.14	7421	-0.200	0.003	0.017	0.028	0.000000	0.000000	-1824.14	163.29
3	GUIDE	used	60560176	7.51	14842	-0.096	-0.084	0.082	0.125	285.709673	1.771932	1524.22	671.87
4	GUIDE	used	60560608	8.00	14845	0.188	-0.008	0.126	0.197	285.334506	1.744807	1493.73	-680.98
5	GUIDE	used	61092160	8.42	14835	0.004	-0.012	0.072	0.119	286.034895	2.526382	-1068.87	2093.78
6	GUIDE	used	61092720	6.96	14842	-0.024	0.150	0.099	0.159	285.297633	2.482302	-1159.13	-560.78
7	GUIDE	used	61085872	8.99	14785	-0.081	-0.050	0.107	0.170	286.137473	1.985097	905.74	2277.03

2.4 Star Slots

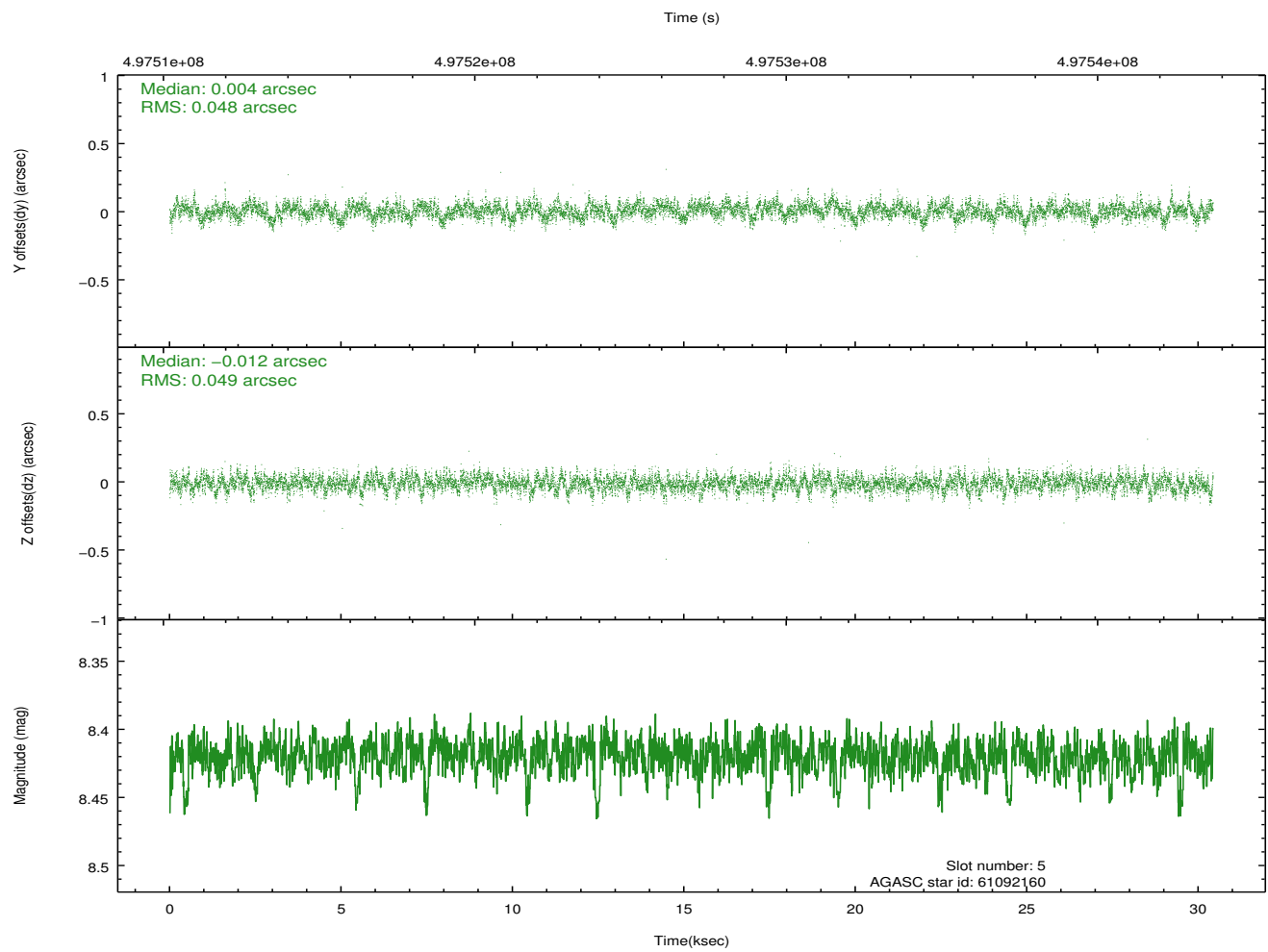
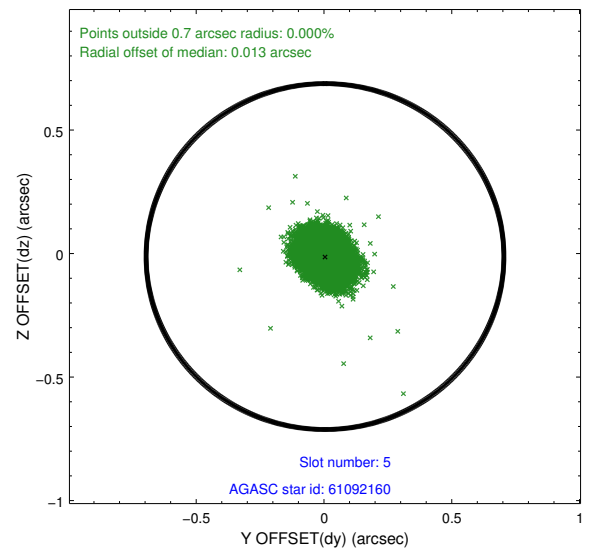
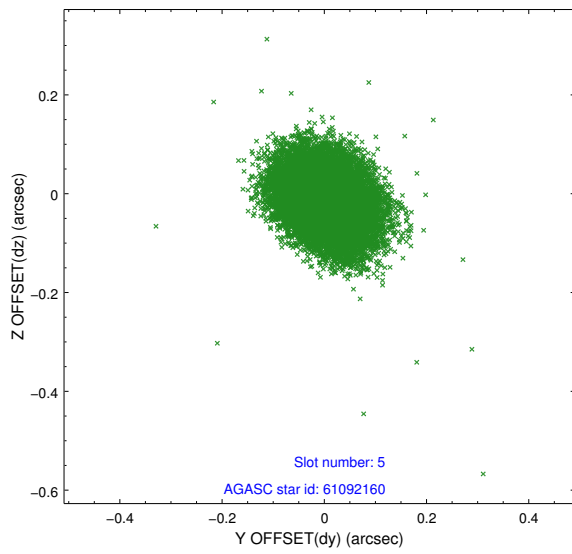
2.4.1 Slot 3



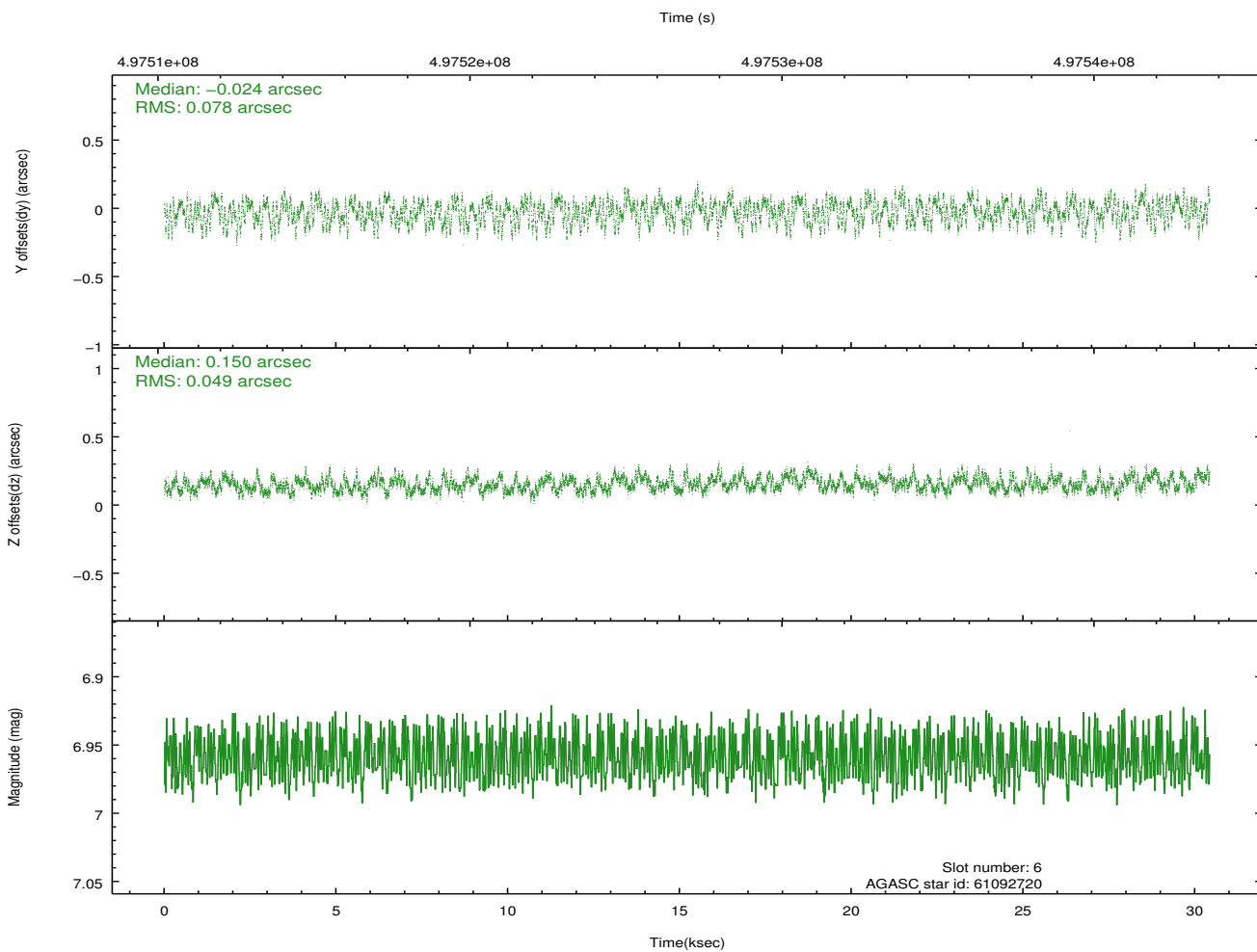
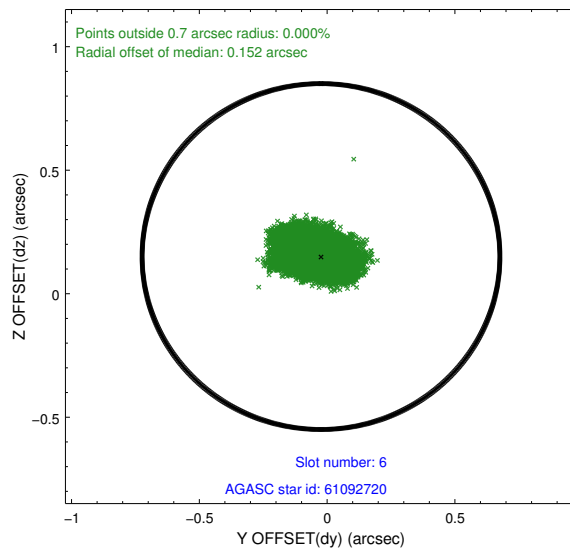
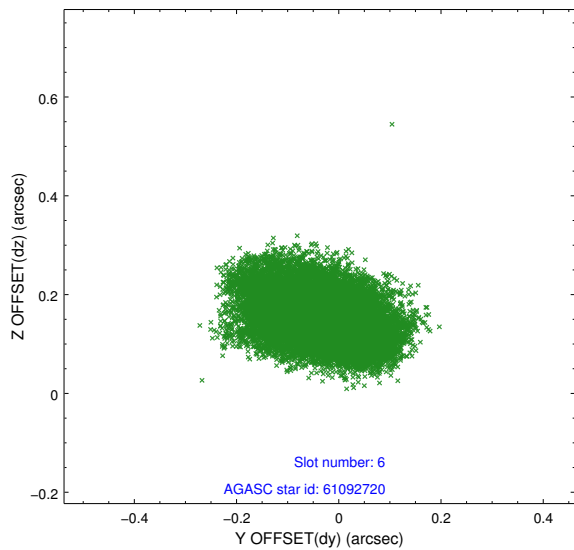
2.4.2 Slot 4



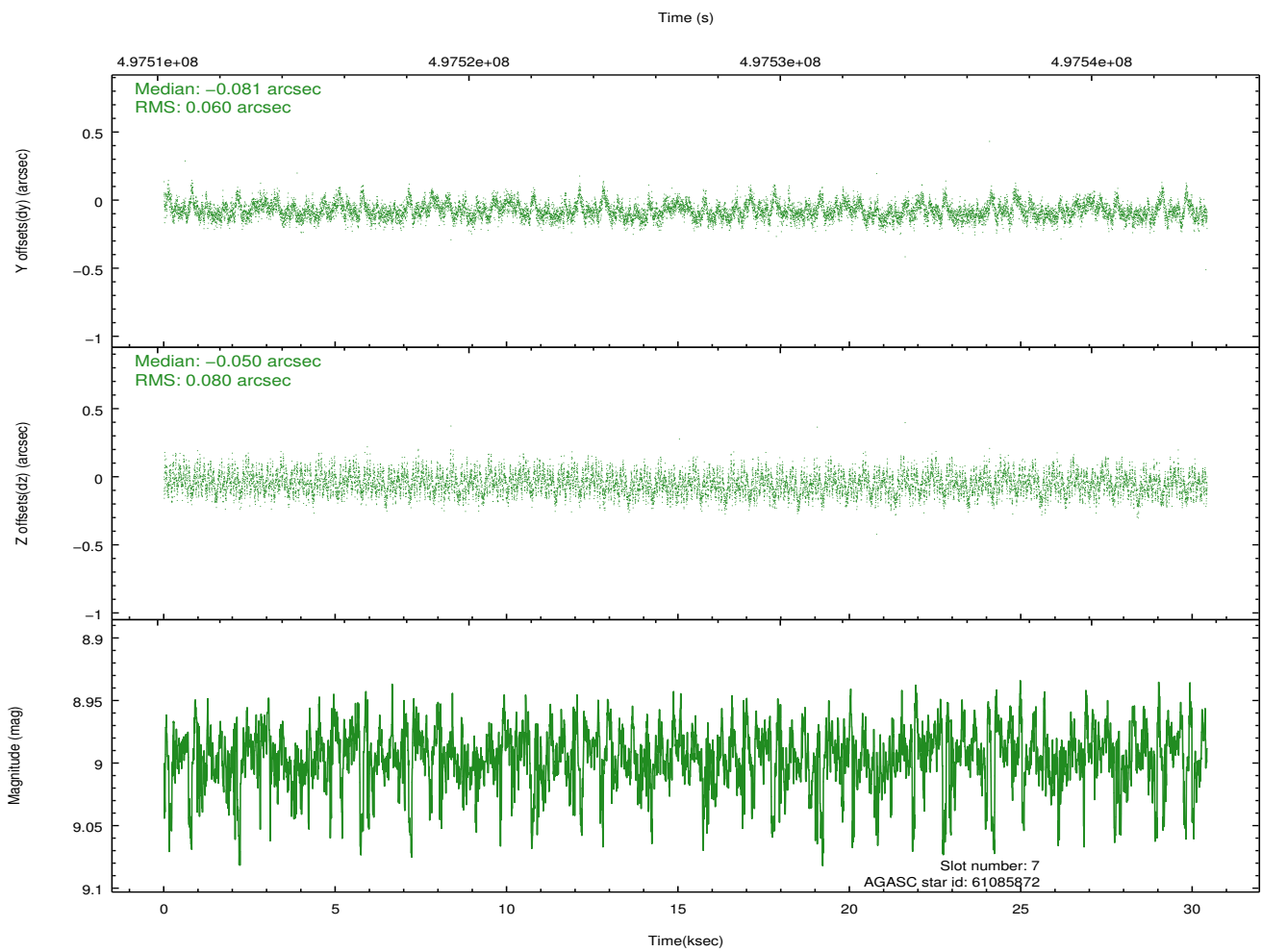
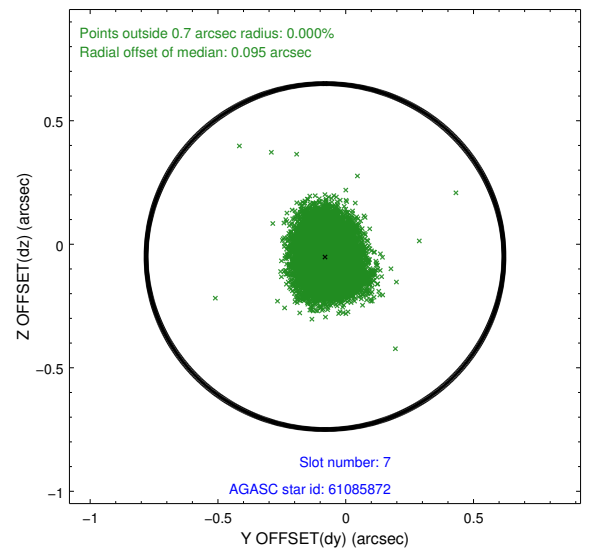
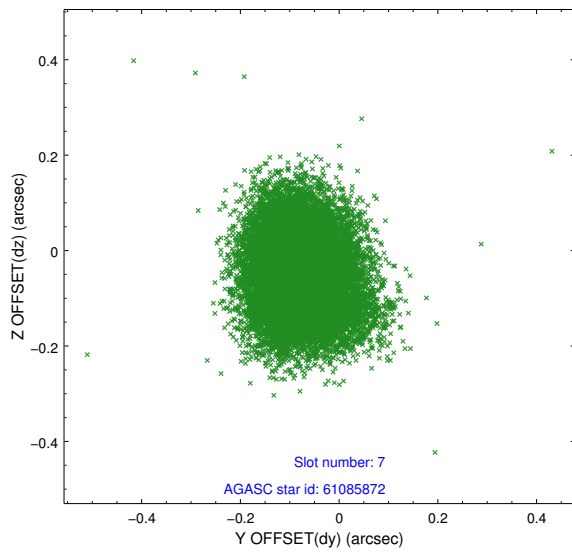
2.4.3 Slot 5



2.4.4 Slot 6

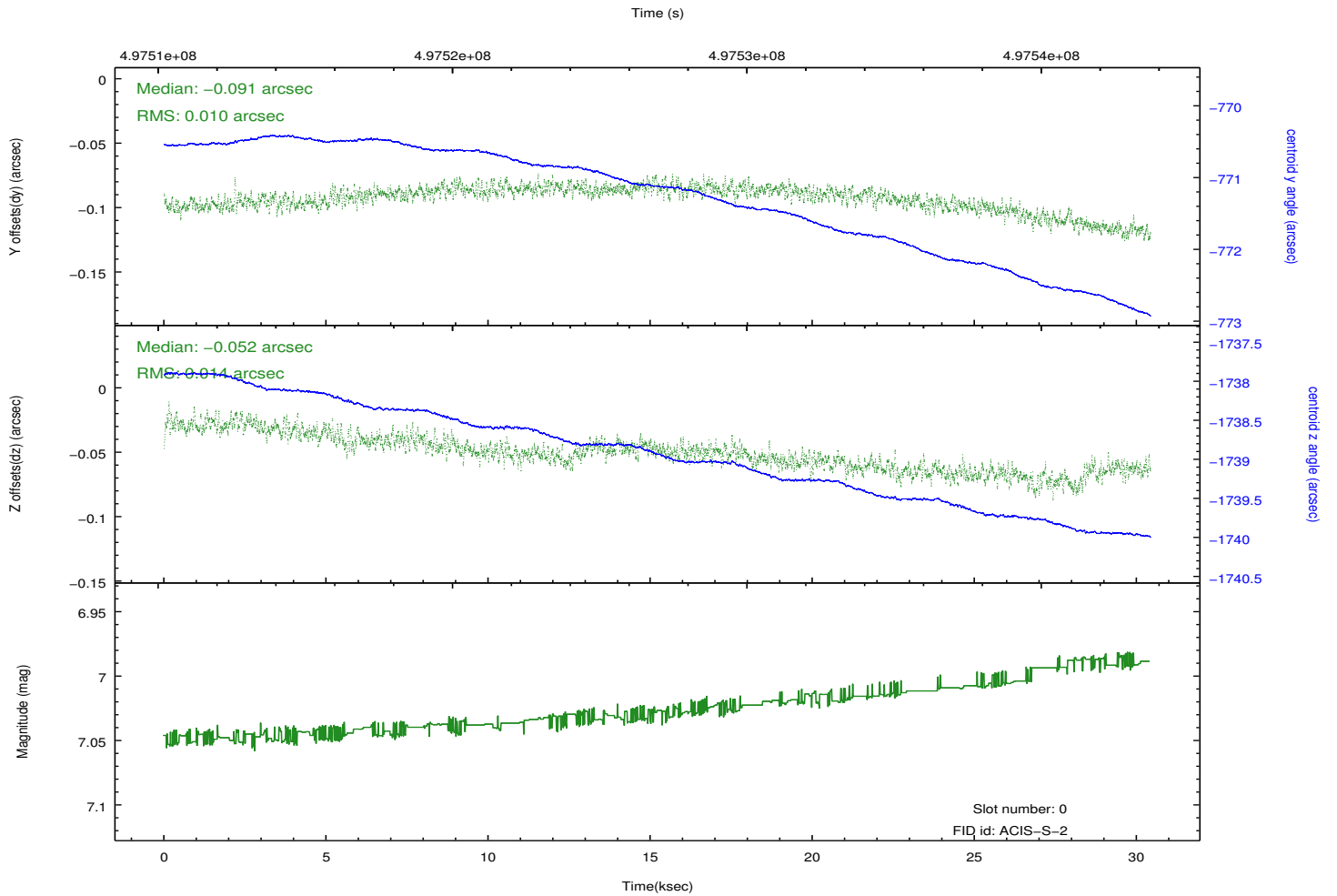
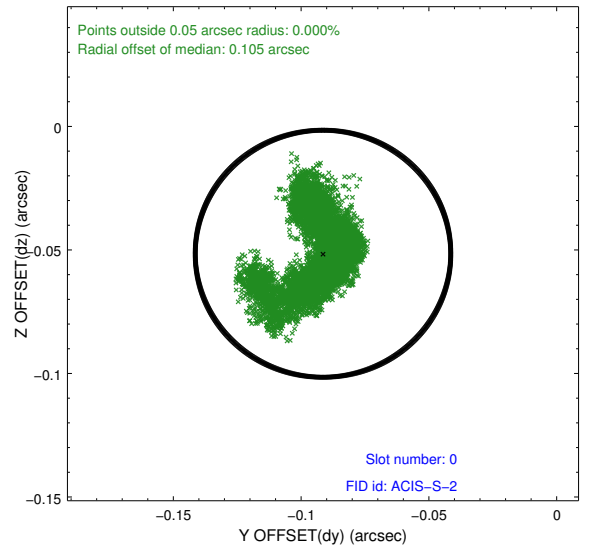
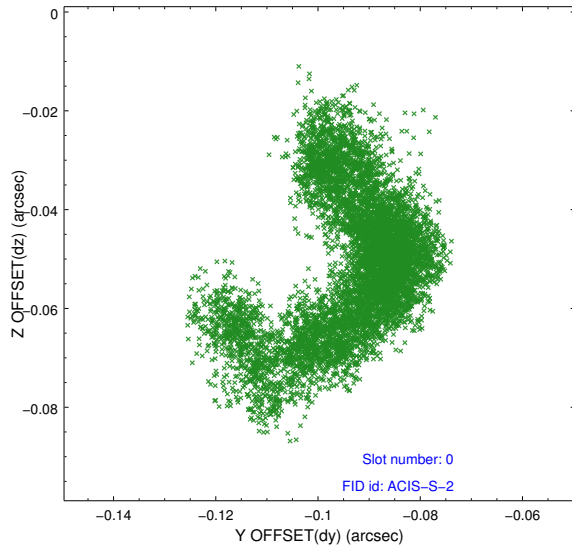


2.4.5 Slot 7

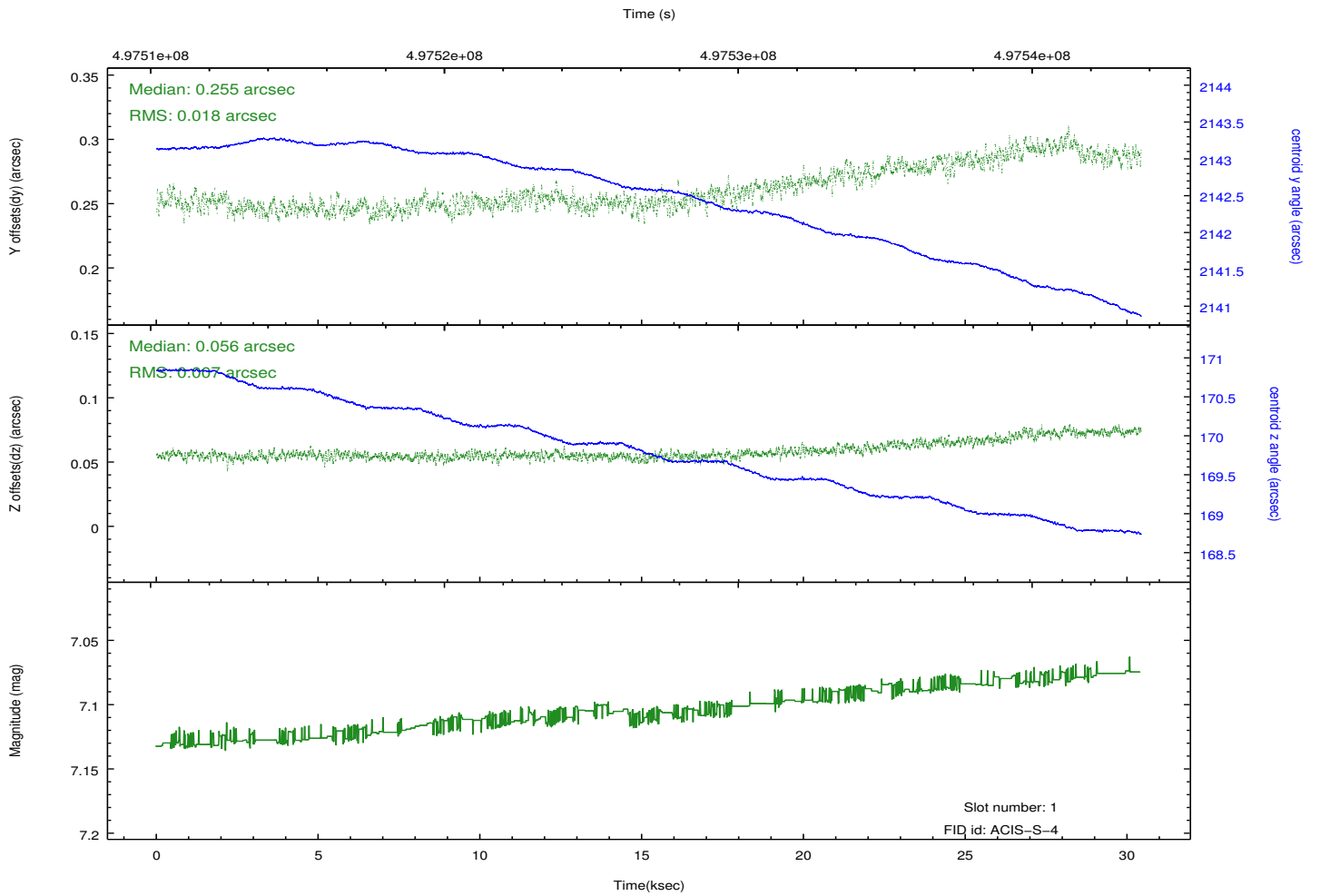
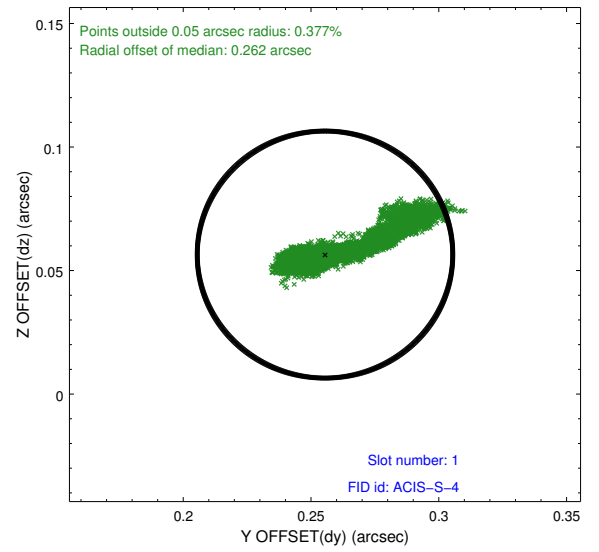
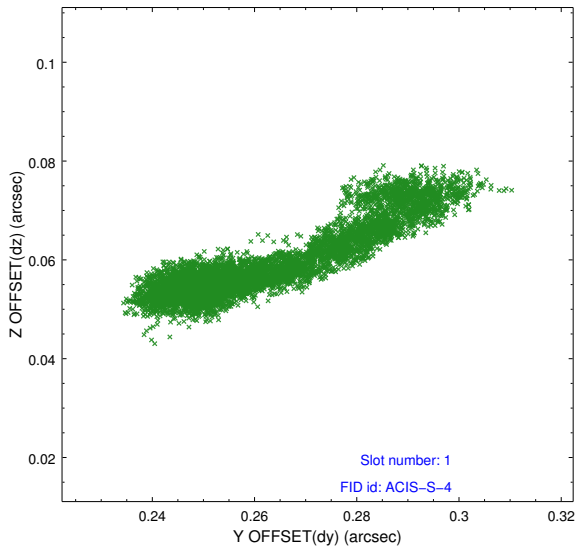


2.5 FID Slots

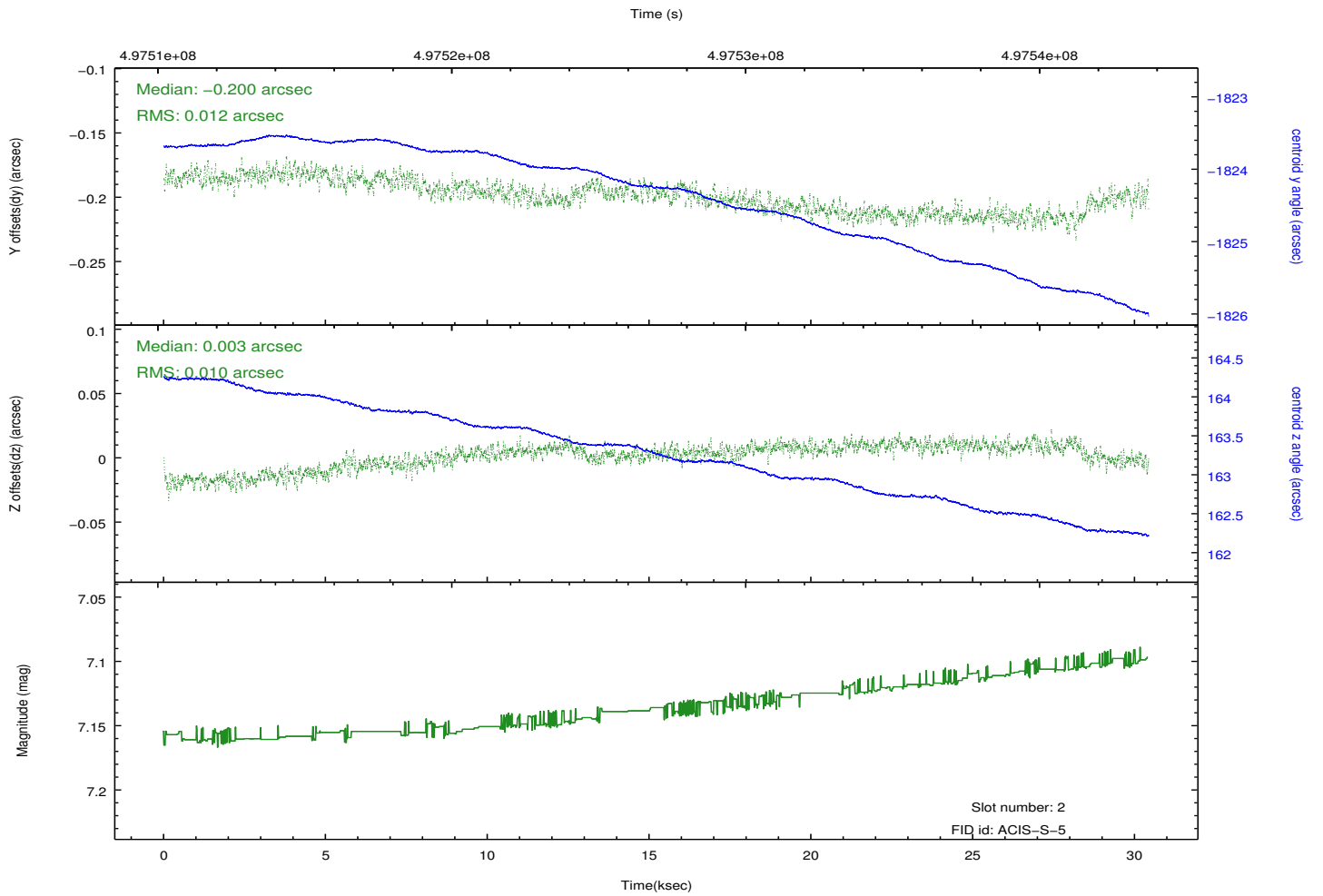
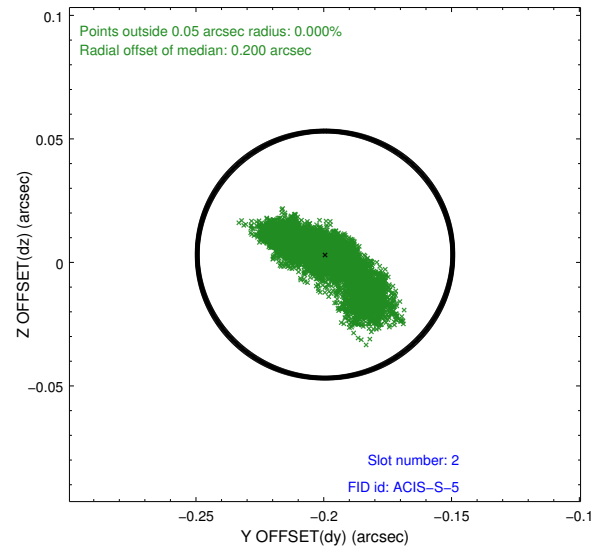
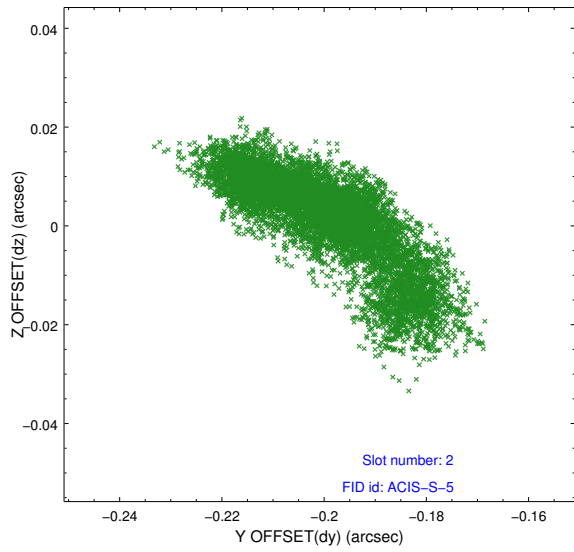
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.964799888432

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.