

V&V Reference Report

L2 ASCDS Version : 10

Observation 14947 - L2 Version 2
Chandra X-Ray Center

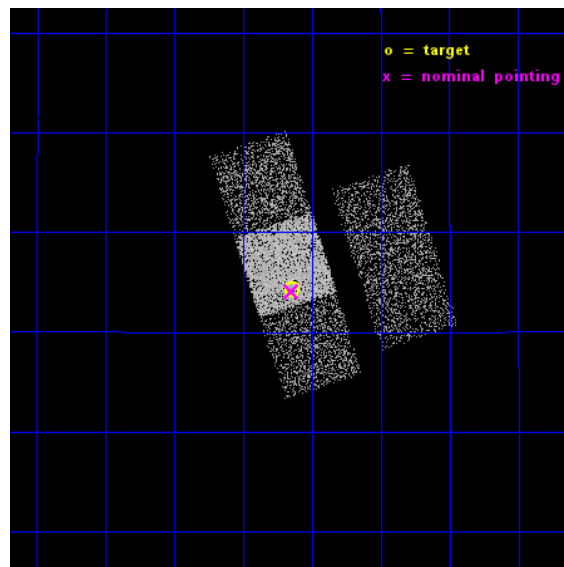
L2 Processing Date : Dec 3 2014

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1 Front

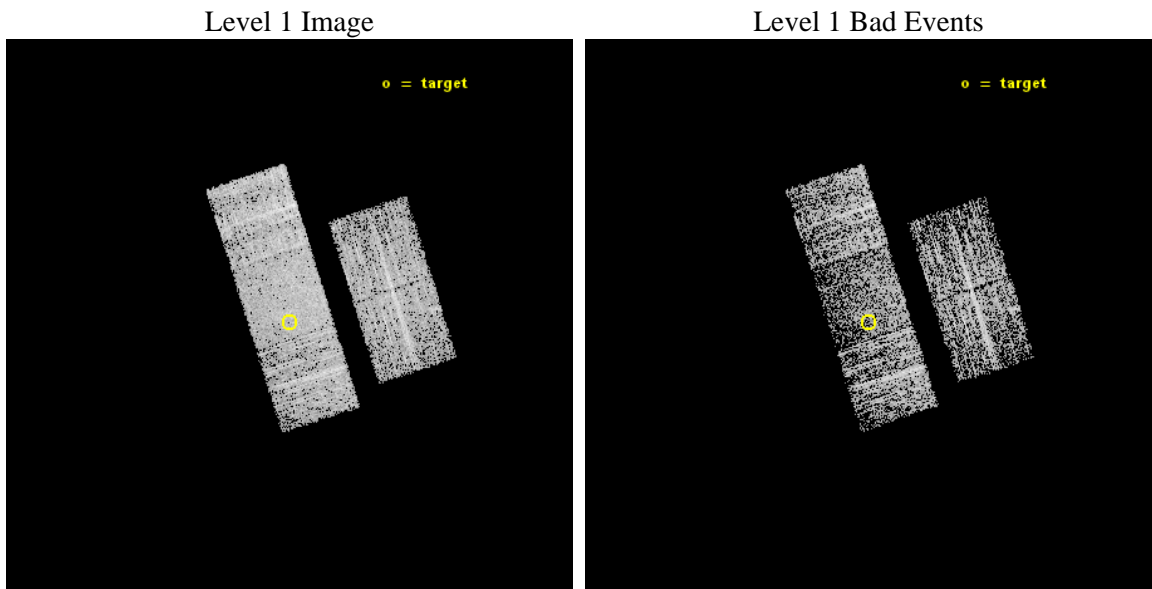
seq_num	702756	Sequence number
obs_id	14947	Observation id
title	Understanding the Nature of PHL 1811 Analogs	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J0948+1614	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	147.035	Observer's specified target RA [deg]
dec_targ	16.23725	Observer's specified target Dec [deg]
ra_nom	147.03704465332	Nominal RA [deg]
dec_nom	16.23475189257	Nominal Dec [deg]
roll_nom	252.03911160496	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3766.5000289679	Sum of GTIs [s]
livetime	3717.2879332324	Livetime [s]
ontime2	3766.5000289679	Sum of GTIs [s]
ontime3	3766.5000289679	Sum of GTIs [s]
ontime6	3766.5000289679	Sum of GTIs [s]
ontime7	3766.5000289679	Sum of GTIs [s]
ontime8	3766.5000289679	Sum of GTIs [s]
l2events	15498	Number of level 2 events



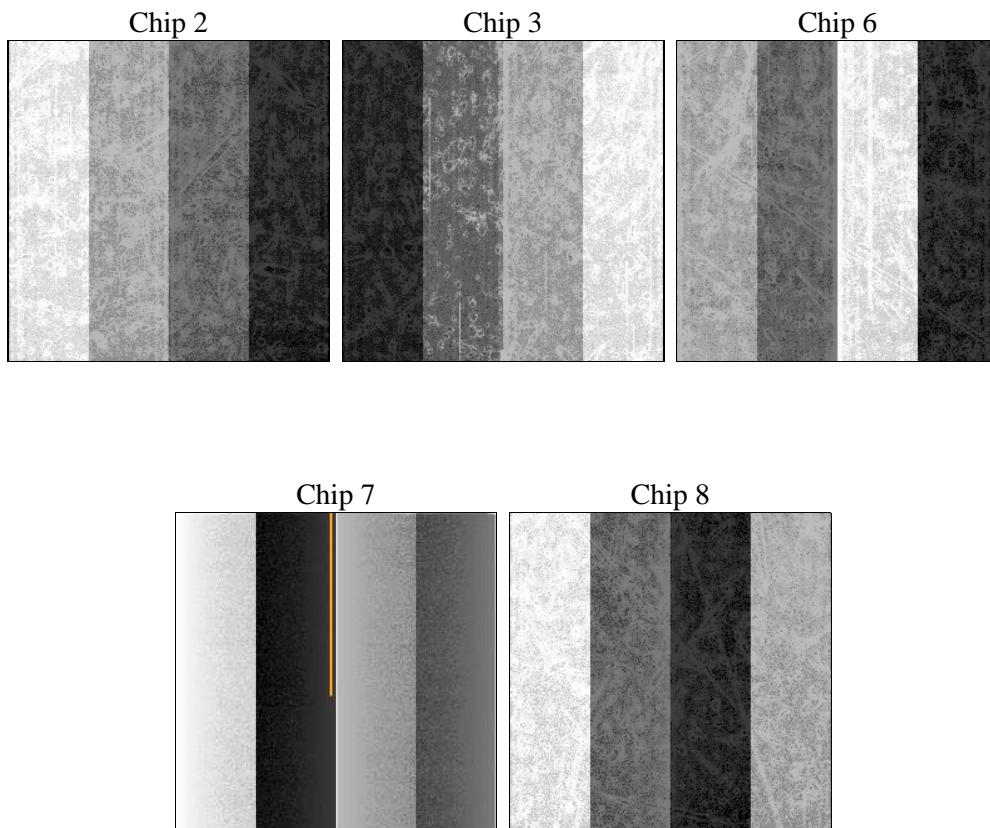
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3700.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	3766.5000289679	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3766.5000289679	Sum of GTIs [s]
date	2014-12-03T16:33:51	Date and time of file creation	ontime3	3766.5000289679	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3766.5000289679	Sum of GTIs [s]
			ontime7	3766.5000289679	Sum of GTIs [s]
			ontime8	3766.5000289679	Sum of GTIs [s]
			l1events	87534	Number of level 1 events

2.1.4 Events

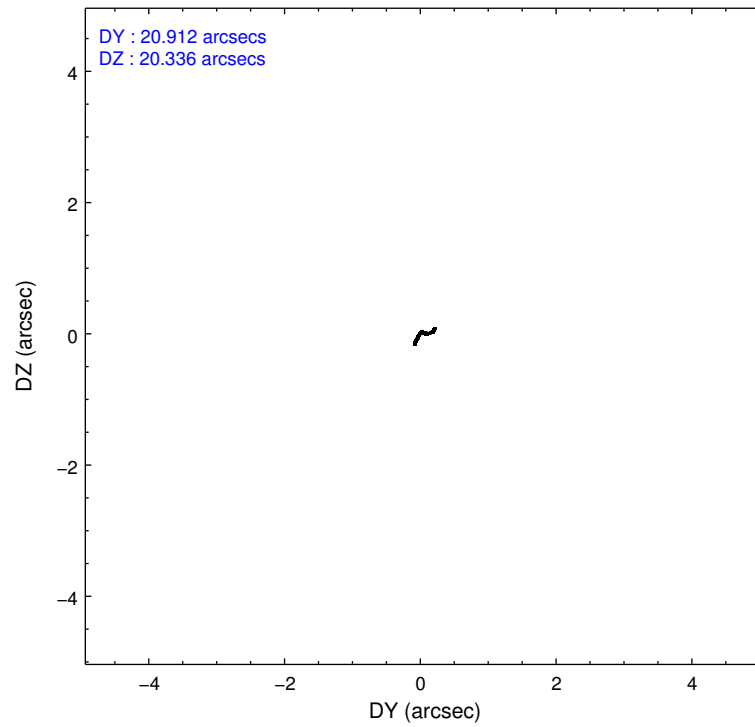
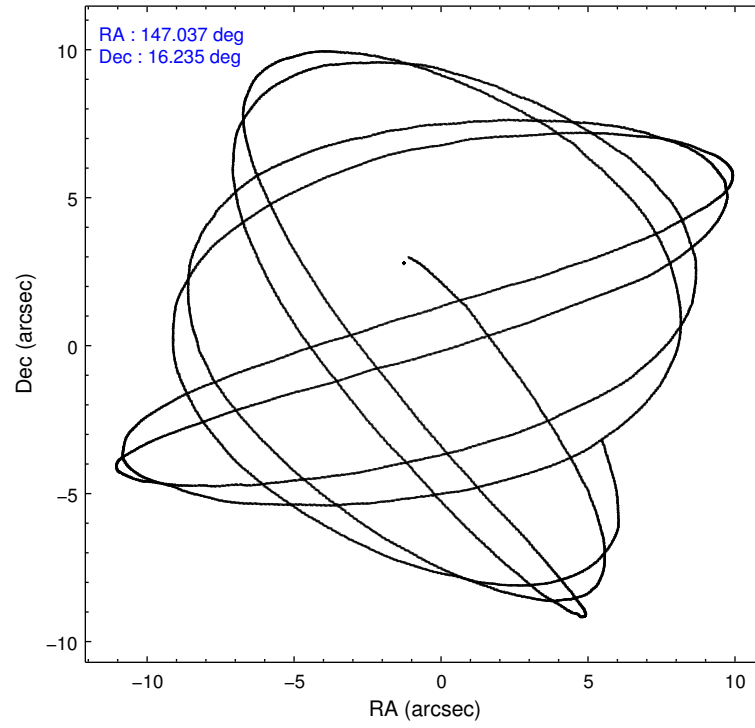
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	14989	14620	16590	19050	22285
rejected events	13121	12787	14636	9985	15638
rejected %	87%	87%	88%	52%	70%

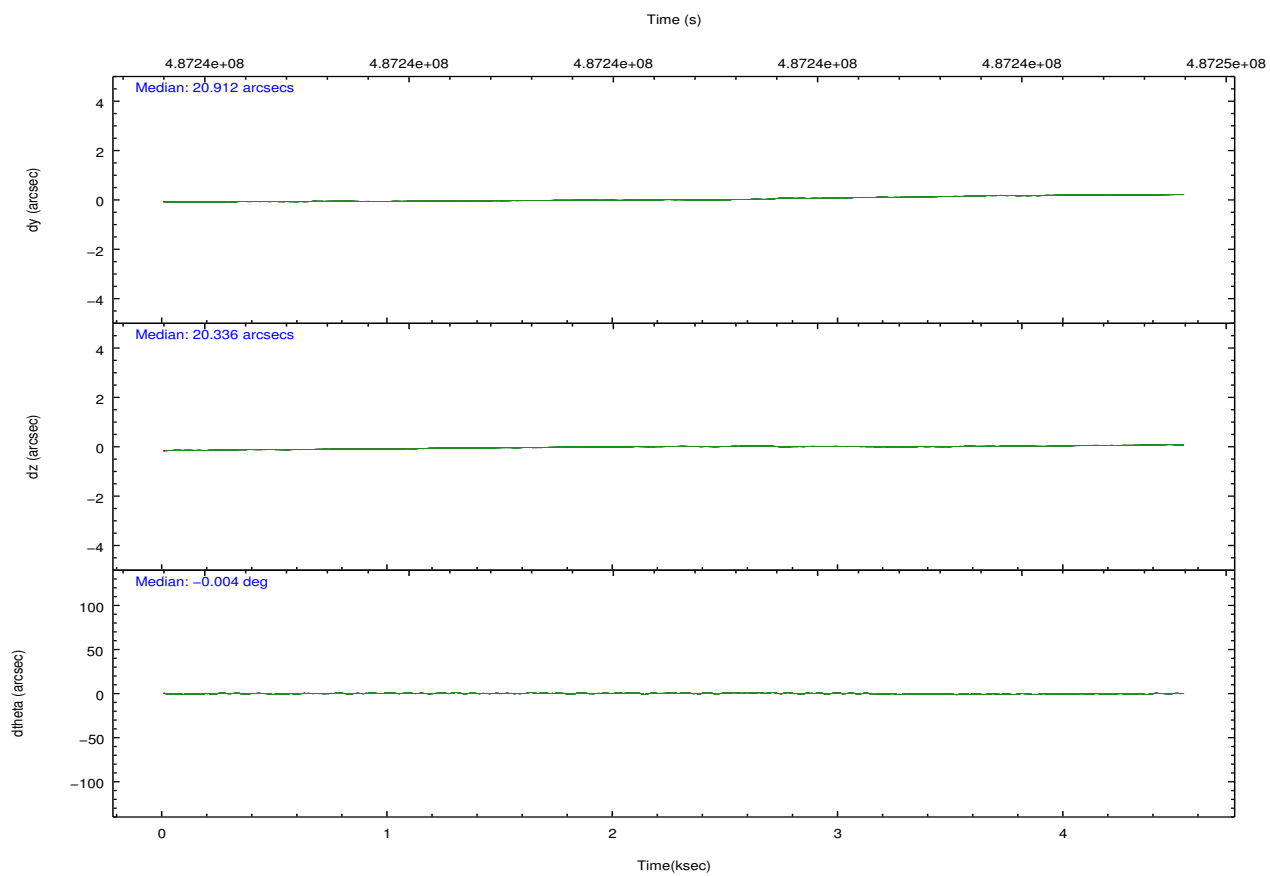
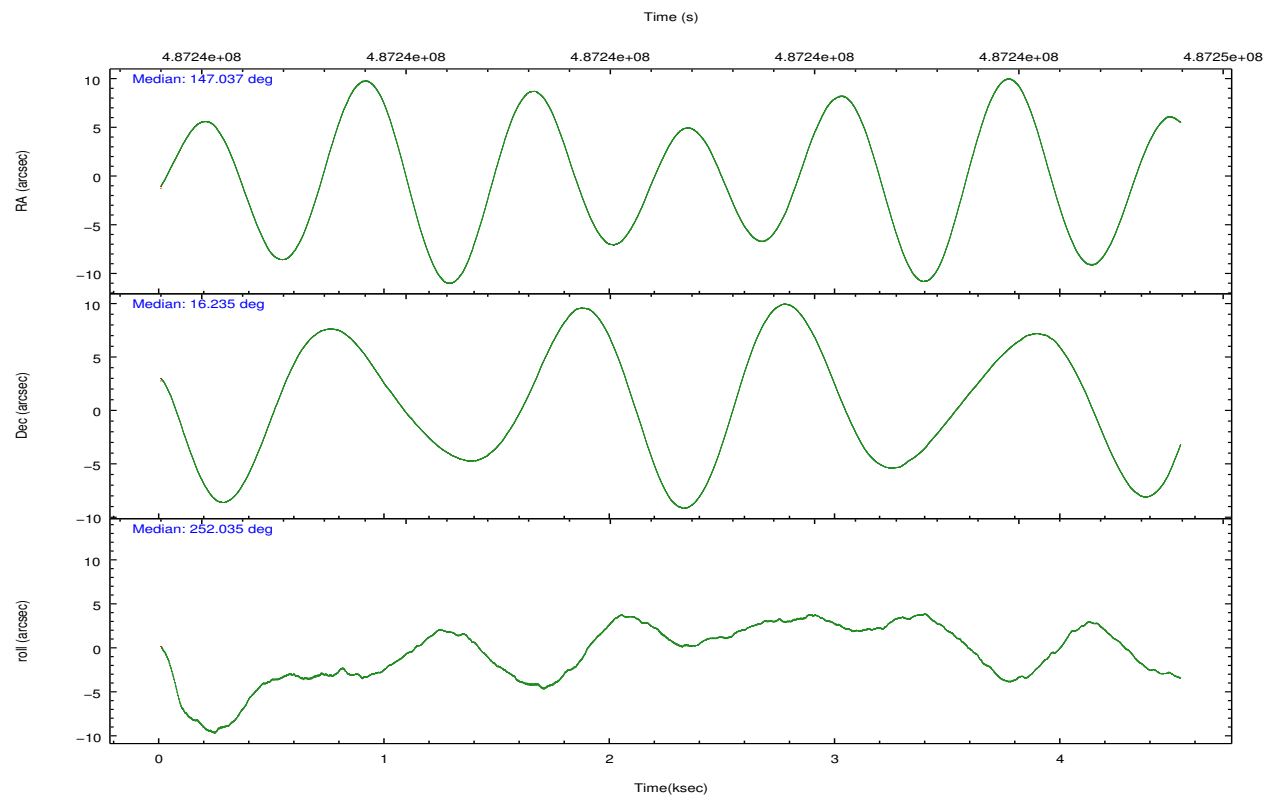
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	678	691	670	896	1796
	4%	4%	4%	4%	8%
grade 1 events	5	18	7	29	23
	0%	0%	0%	0%	0%
grade 2 events	483	434	454	1900	1629
	3%	2%	2%	9%	7%
grade 3 events	174	175	226	799	742
	1%	1%	1%	4%	3%
grade 4 events	202	205	197	808	655
	1%	1%	1%	4%	2%
grade 5 events	530	736	692	2007	1160
	3%	5%	4%	10%	5%
grade 6 events	333	330	408	4672	1831
	2%	2%	2%	24%	8%
grade 7 events	12584	12031	13936	7939	14449
	83%	82%	84%	41%	64%

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	147.030687	147.0370446533164	CCD I2 on	O1	Y
[deg] Pointing Dec	16.261578	16.2347518925698	CCD I3 on	O2	Y
[deg] Pointing Roll	251.884264	252.0391116049573	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	487241861.184000	487240602.60323	CCD S5 on	N	N
Observation start date	2013-06-10T08:56:34	2013-06-10T08:36:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	487245561.184000	487246024.34102	On-chip summing requested	N	N
Observation end date	2013-06-10T09:58:14	2013-06-10T10:07:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



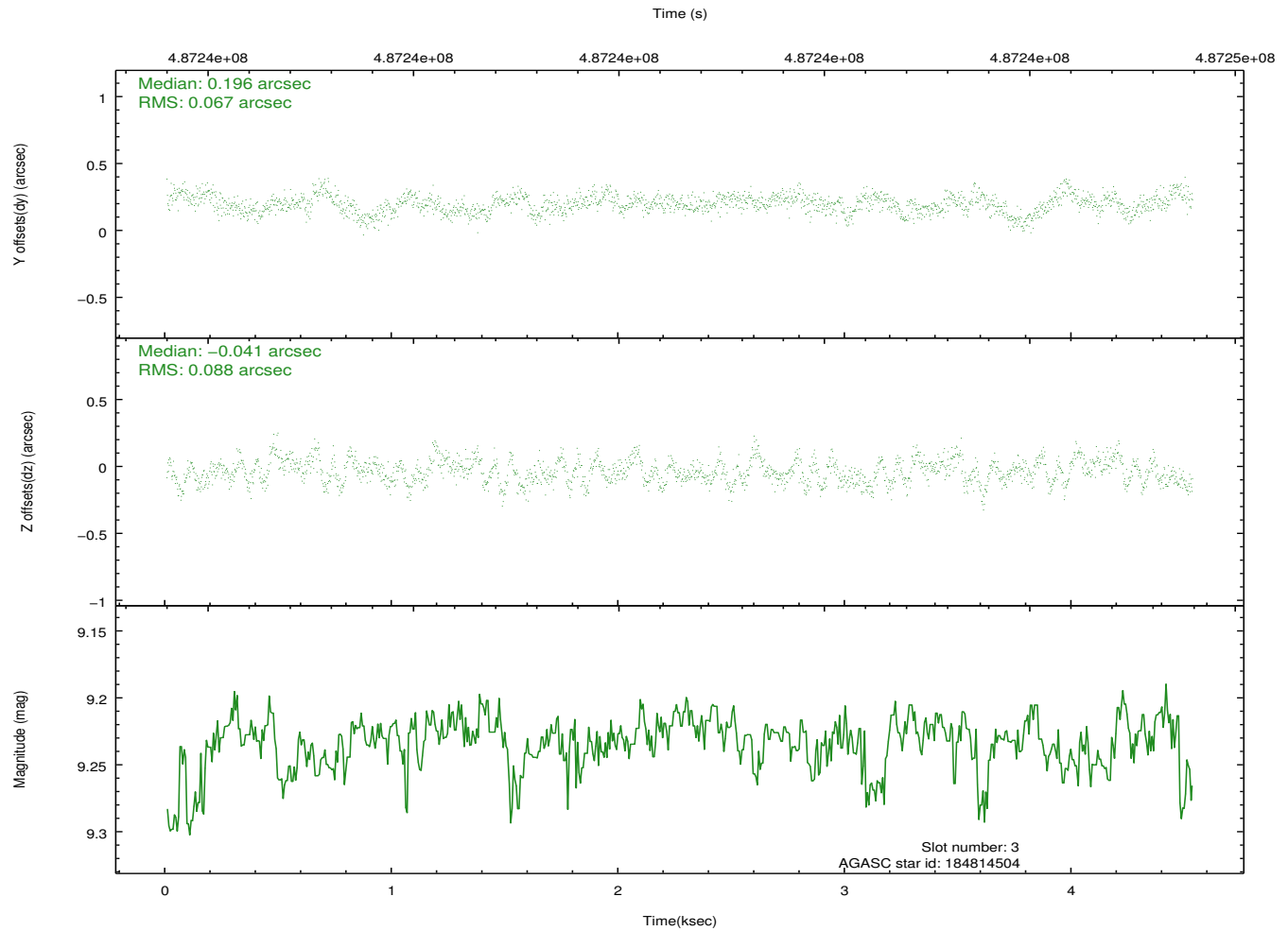
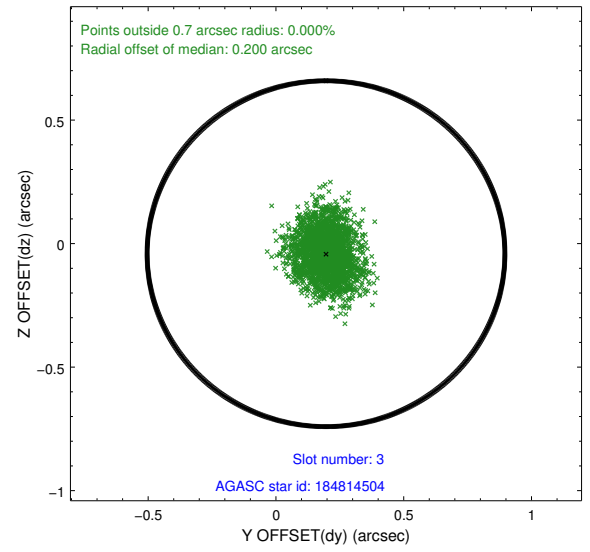
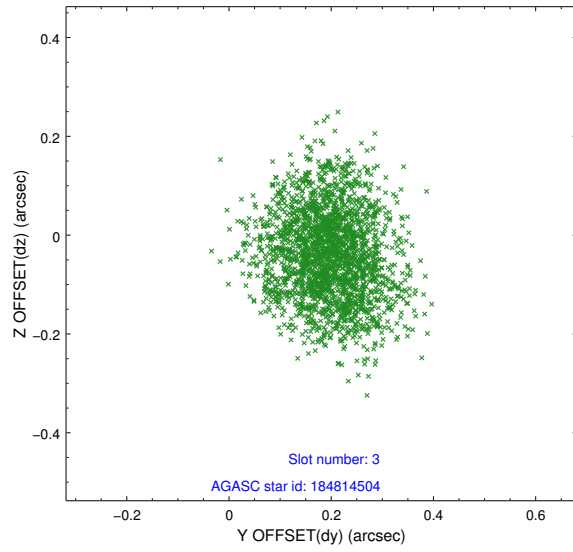


Slot Statistics

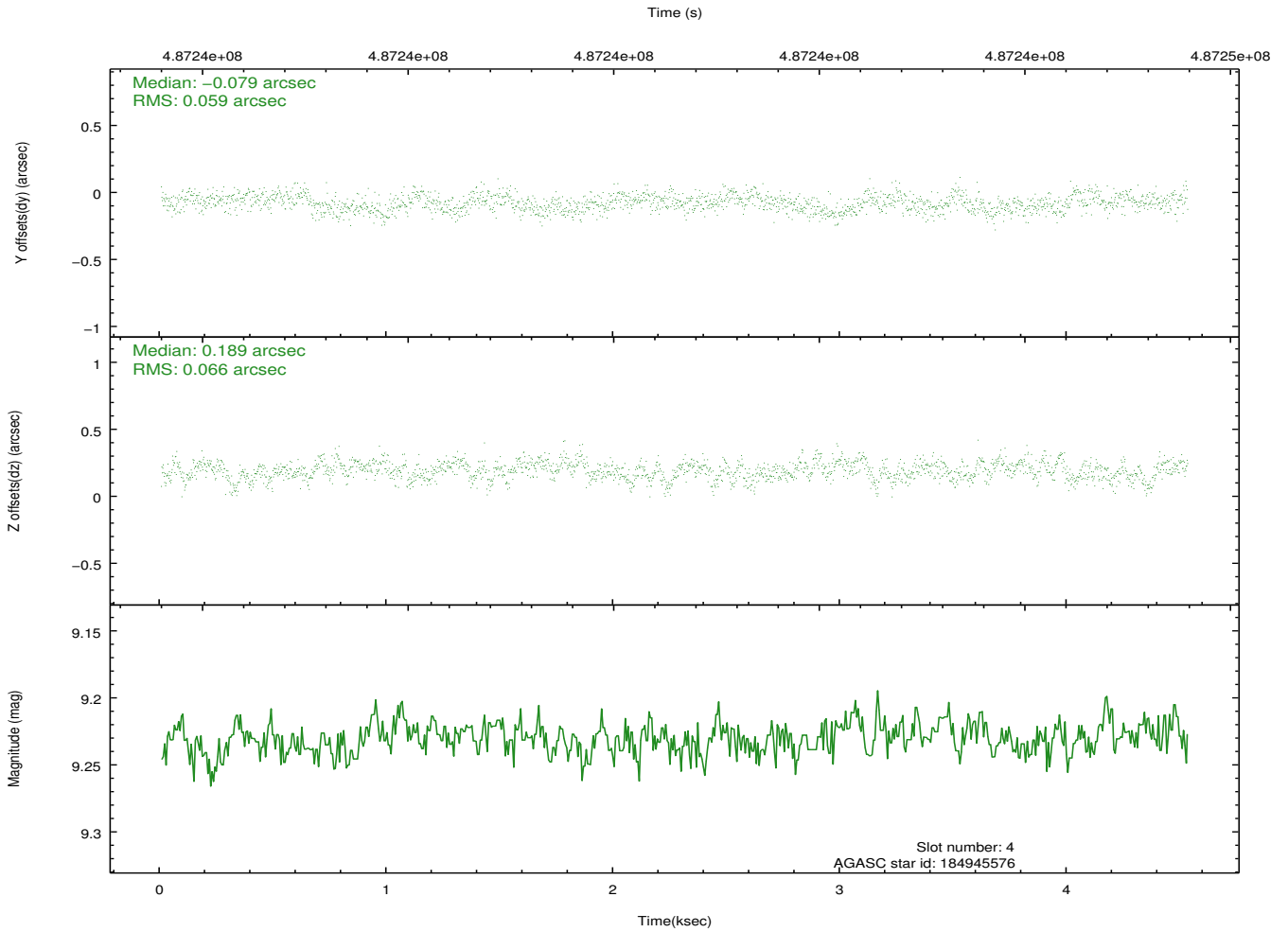
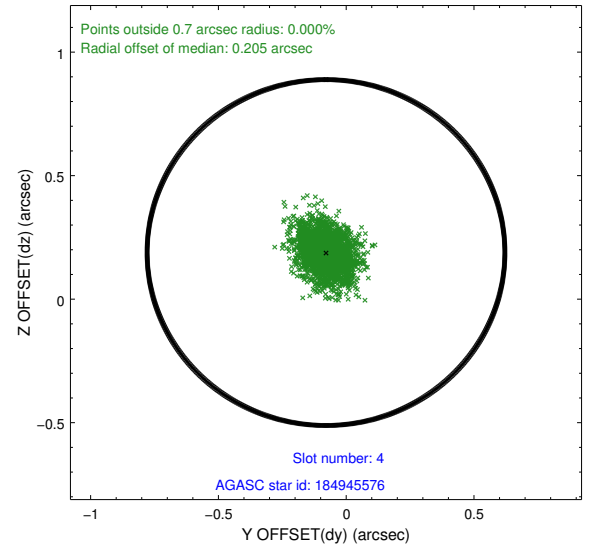
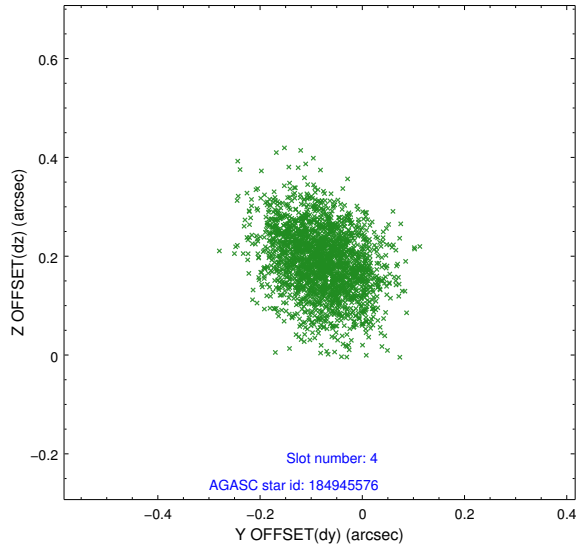
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	1105	-0.121	-0.003	0.006	0.010	0.000000	0.000000	-774.20	-1741.79
1	FID		ACIS-S-4	7.01	1105	0.220	0.059	0.006	0.010	0.000000	0.000000	2138.79	165.35
2	FID		ACIS-S-5	7.03	1105	-0.130	-0.048	0.006	0.010	0.000000	0.000000	-1825.32	160.45
3	GUIDE	used	184814504	9.23	2207	0.196	-0.041	0.119	0.184	146.457064	16.487664	-160.28	-2135.25
4	GUIDE	used	184945576	9.23	2207	-0.079	0.189	0.094	0.153	147.062507	16.898087	-2211.94	-609.00
5	GUIDE	used	184946800	9.26	2197	-0.053	-0.060	0.116	0.191	147.631400	16.313129	-826.15	1913.56
6	GUIDE	used	184948112	9.19	2201	-0.035	0.001	0.109	0.176	147.419365	16.370527	-791.48	1153.73
7	GUIDE	used	184949056	8.78	2206	-0.024	-0.089	0.066	0.110	147.231287	15.566054	2162.49	1440.50

2.4 Star Slots

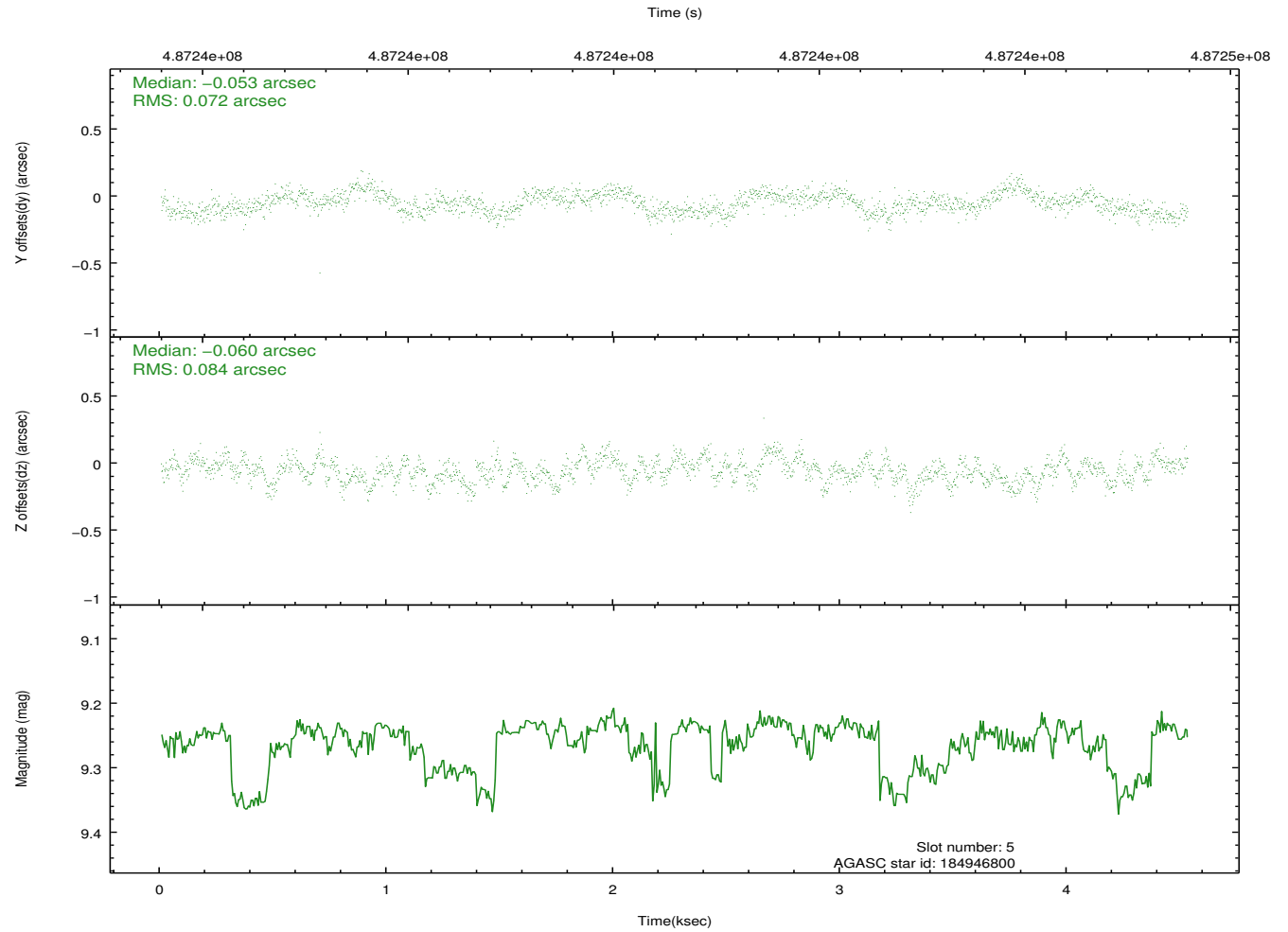
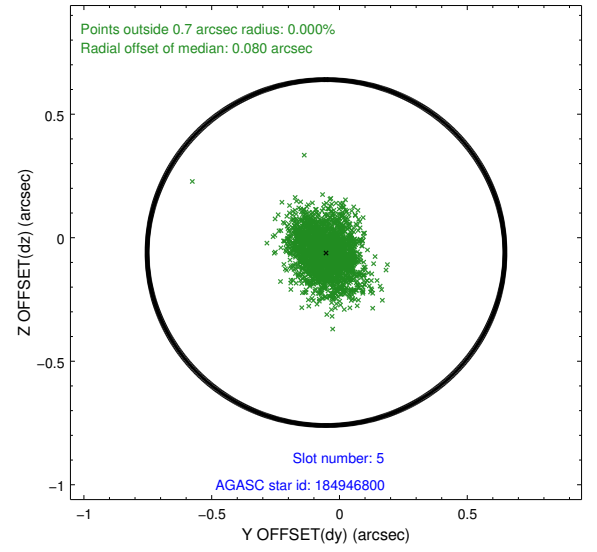
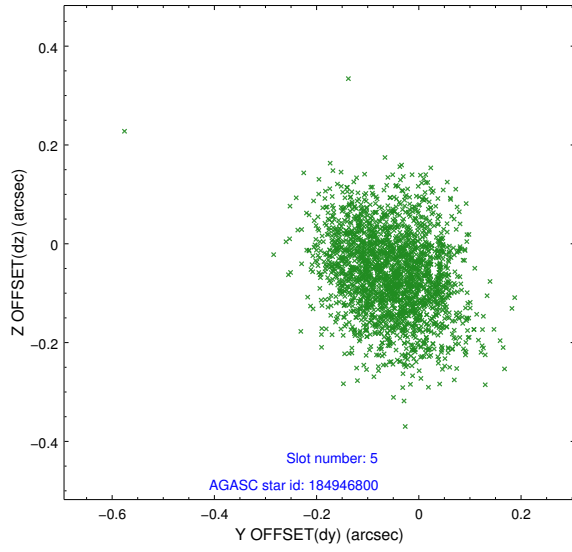
2.4.1 Slot 3



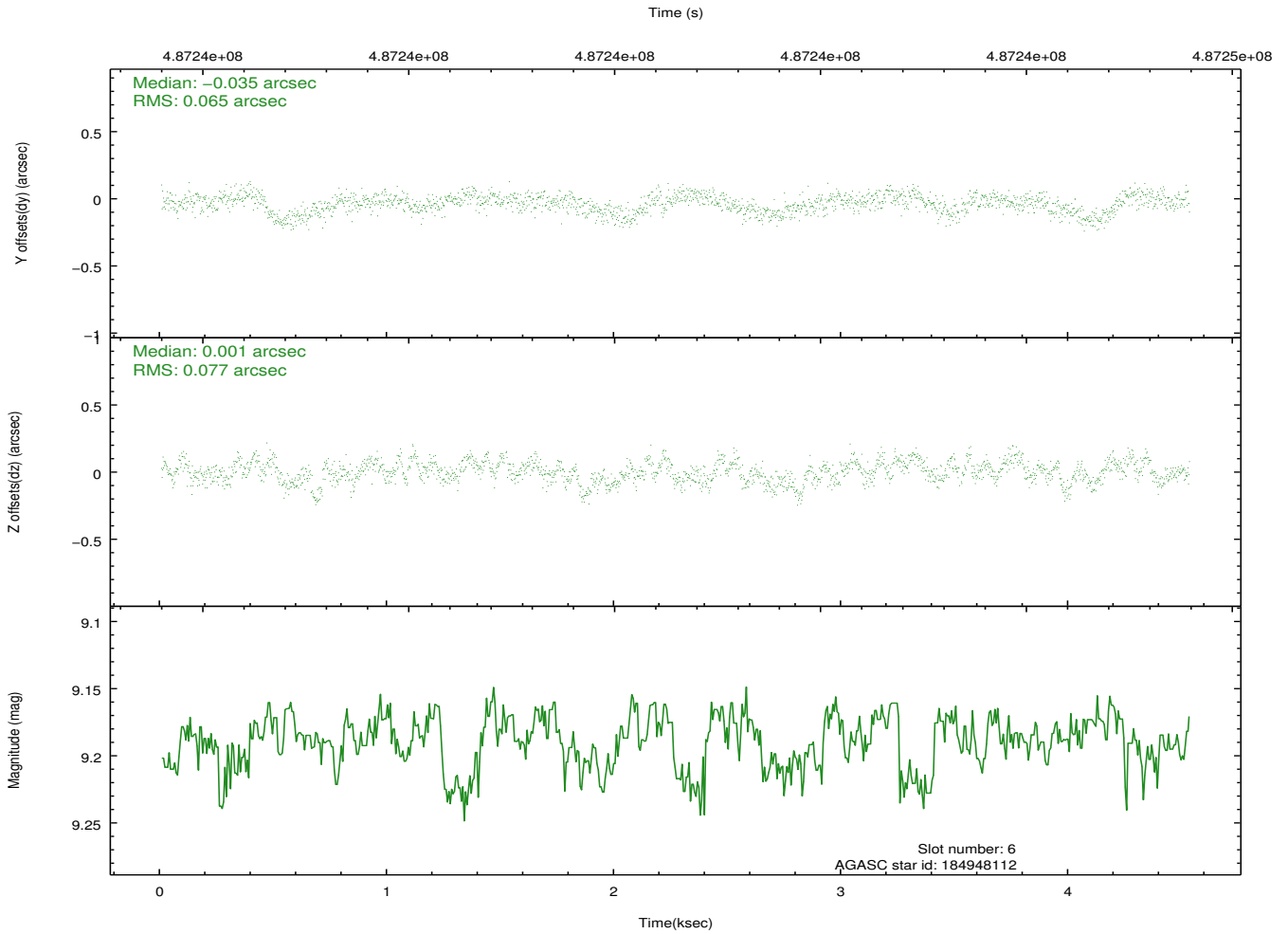
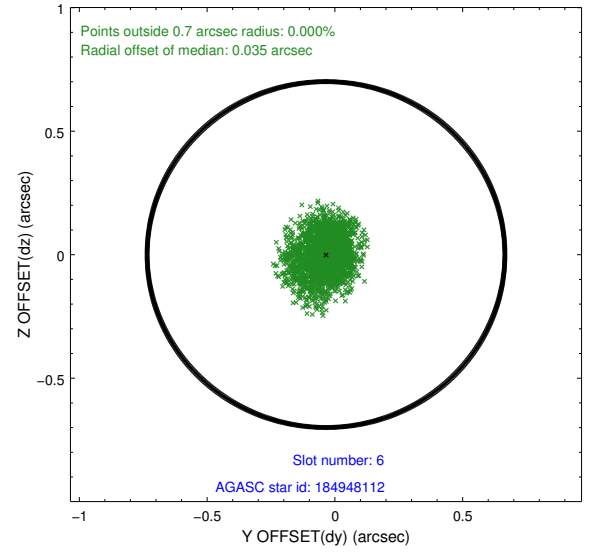
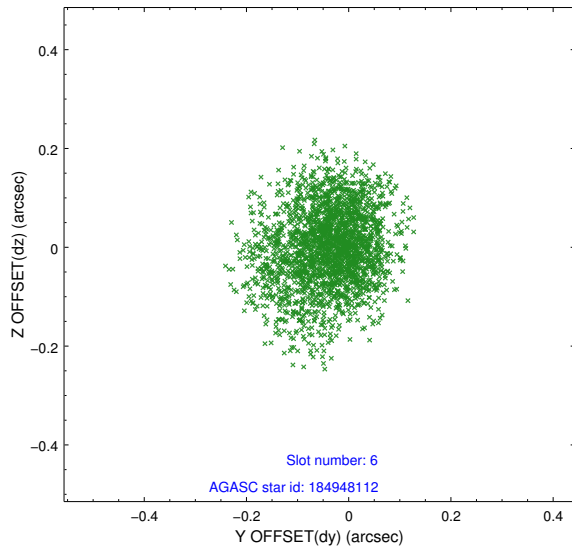
2.4.2 Slot 4



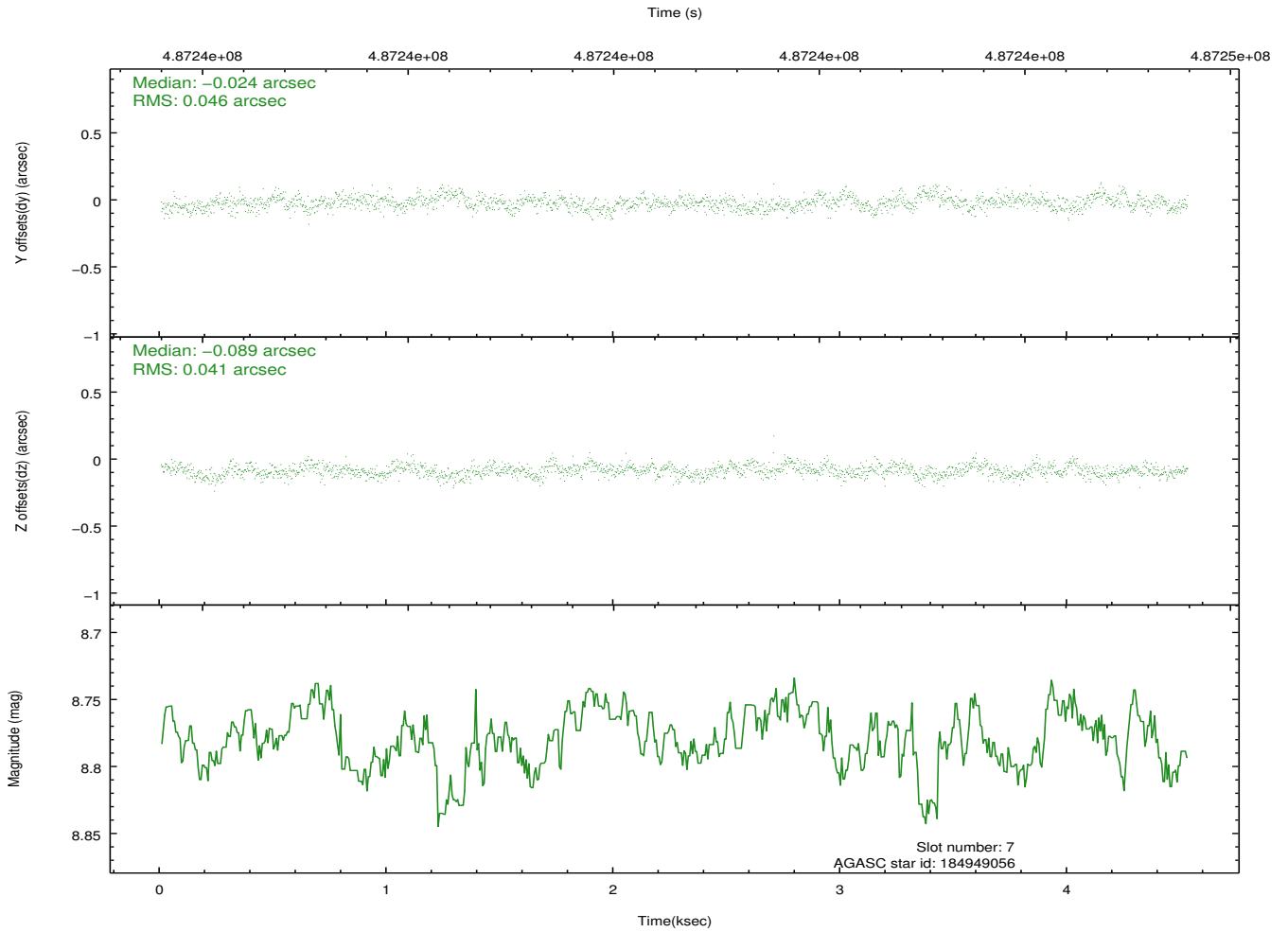
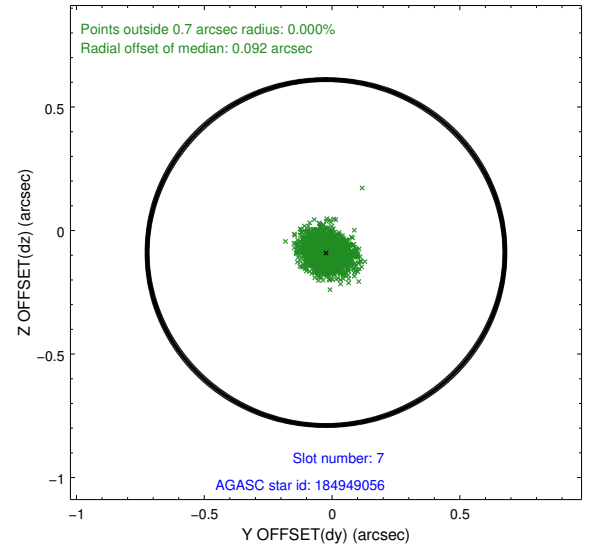
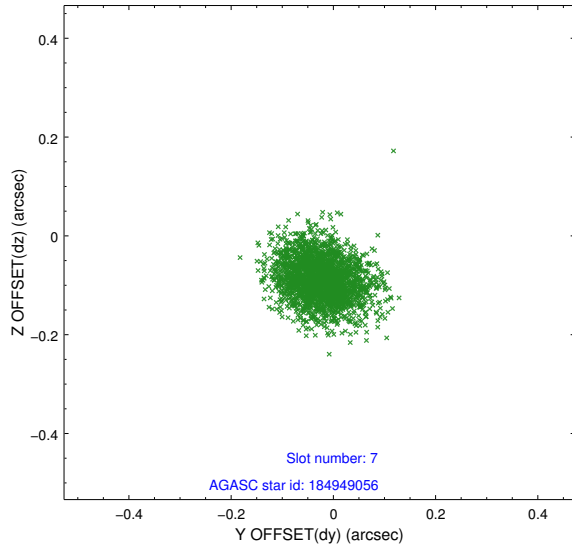
2.4.3 Slot 5



2.4.4 Slot 6

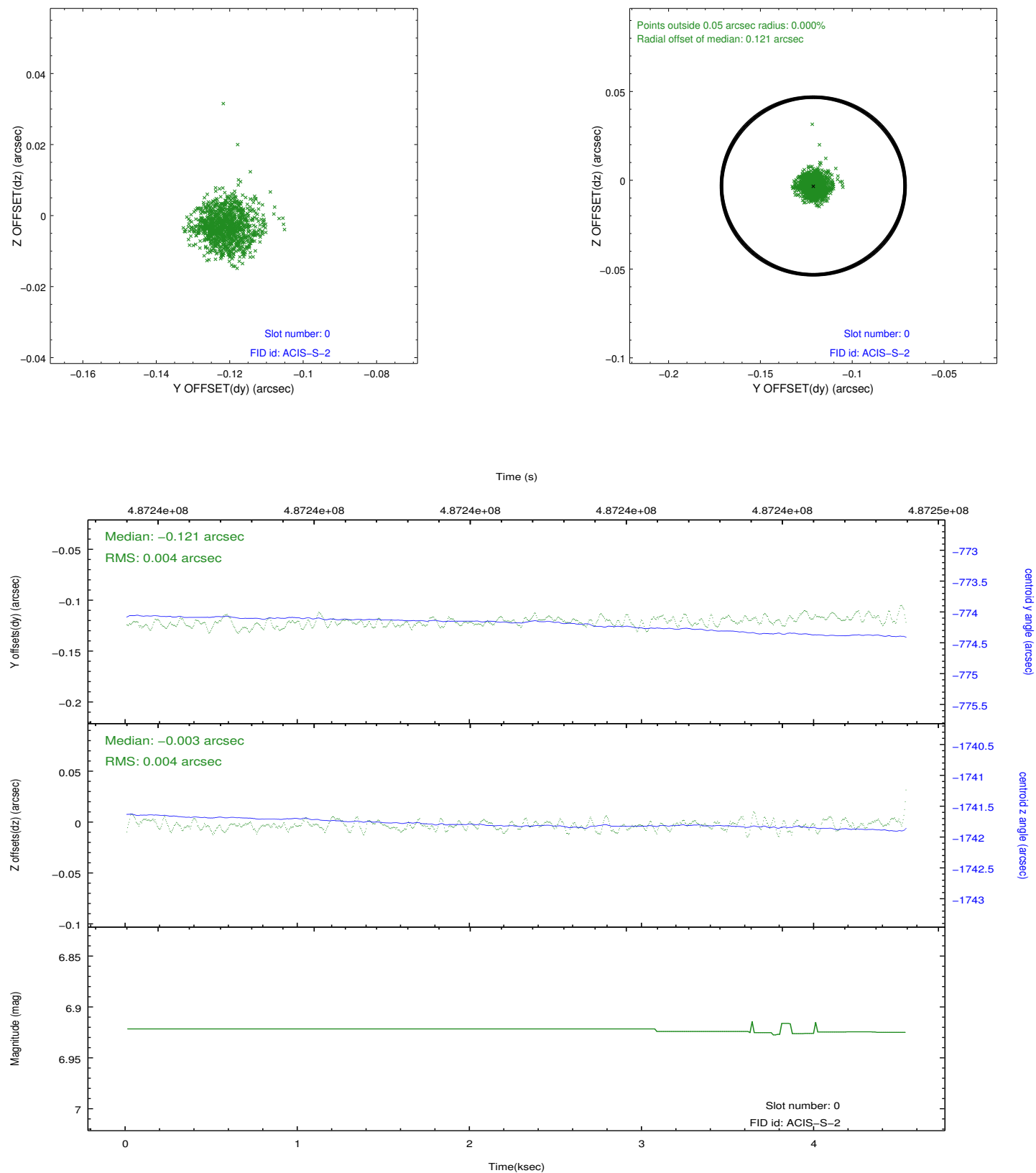


2.4.5 Slot 7

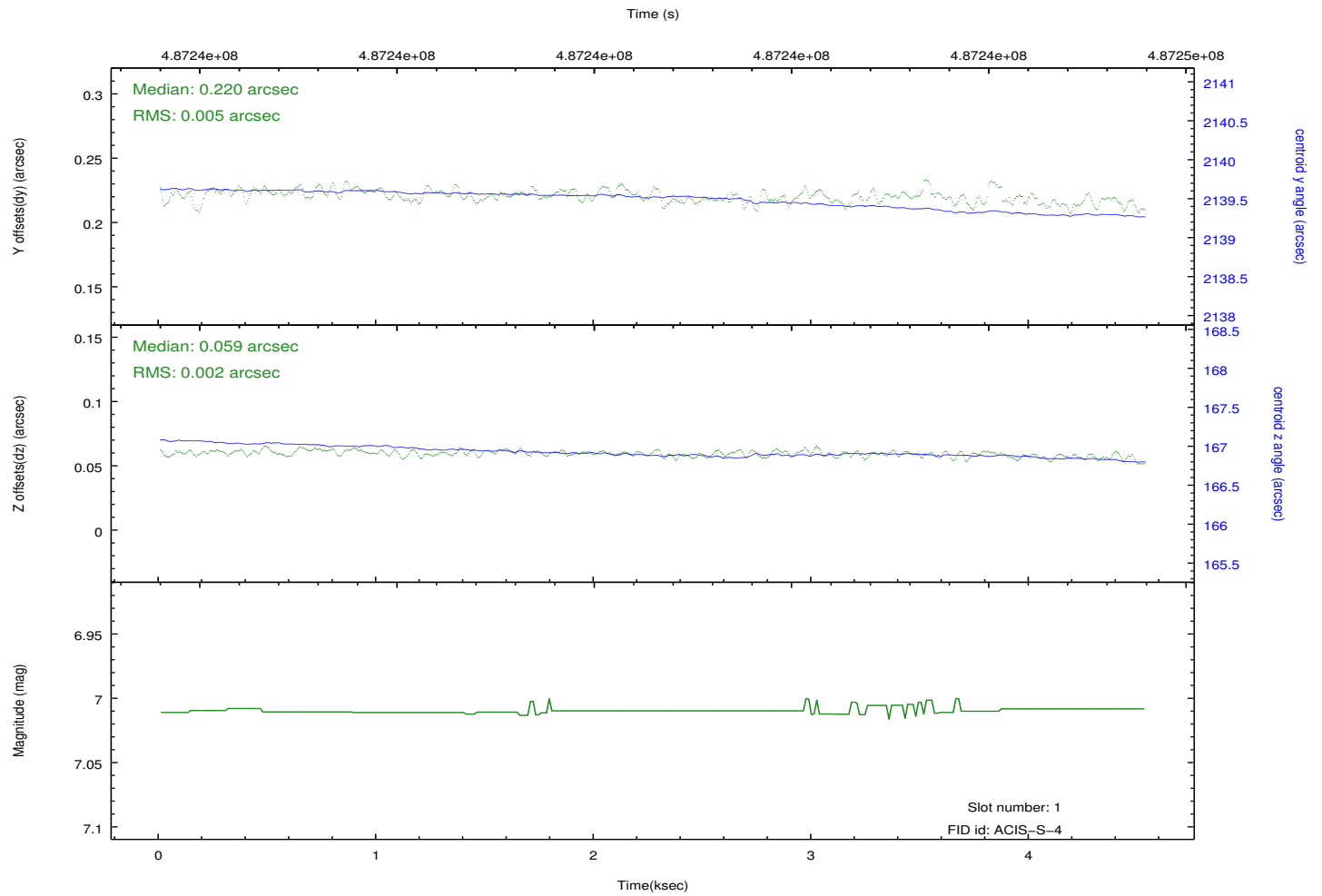
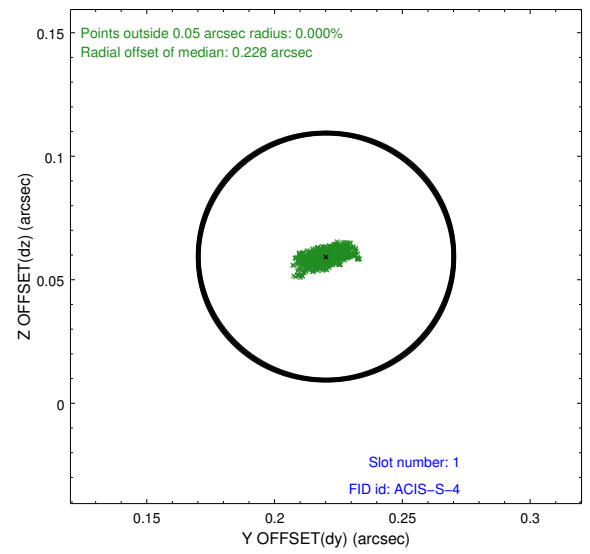
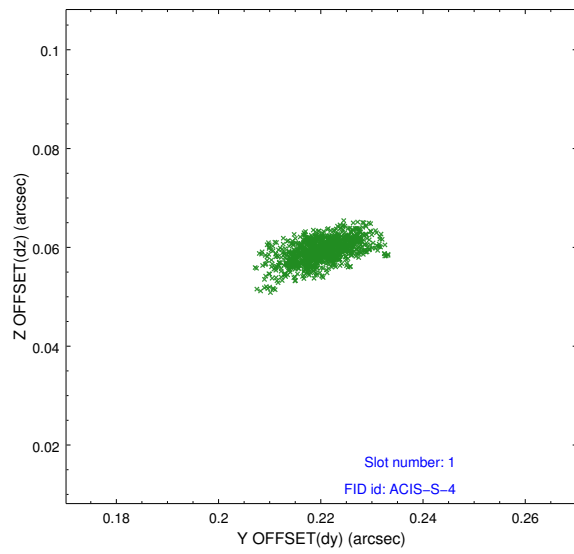


2.5 FID Slots

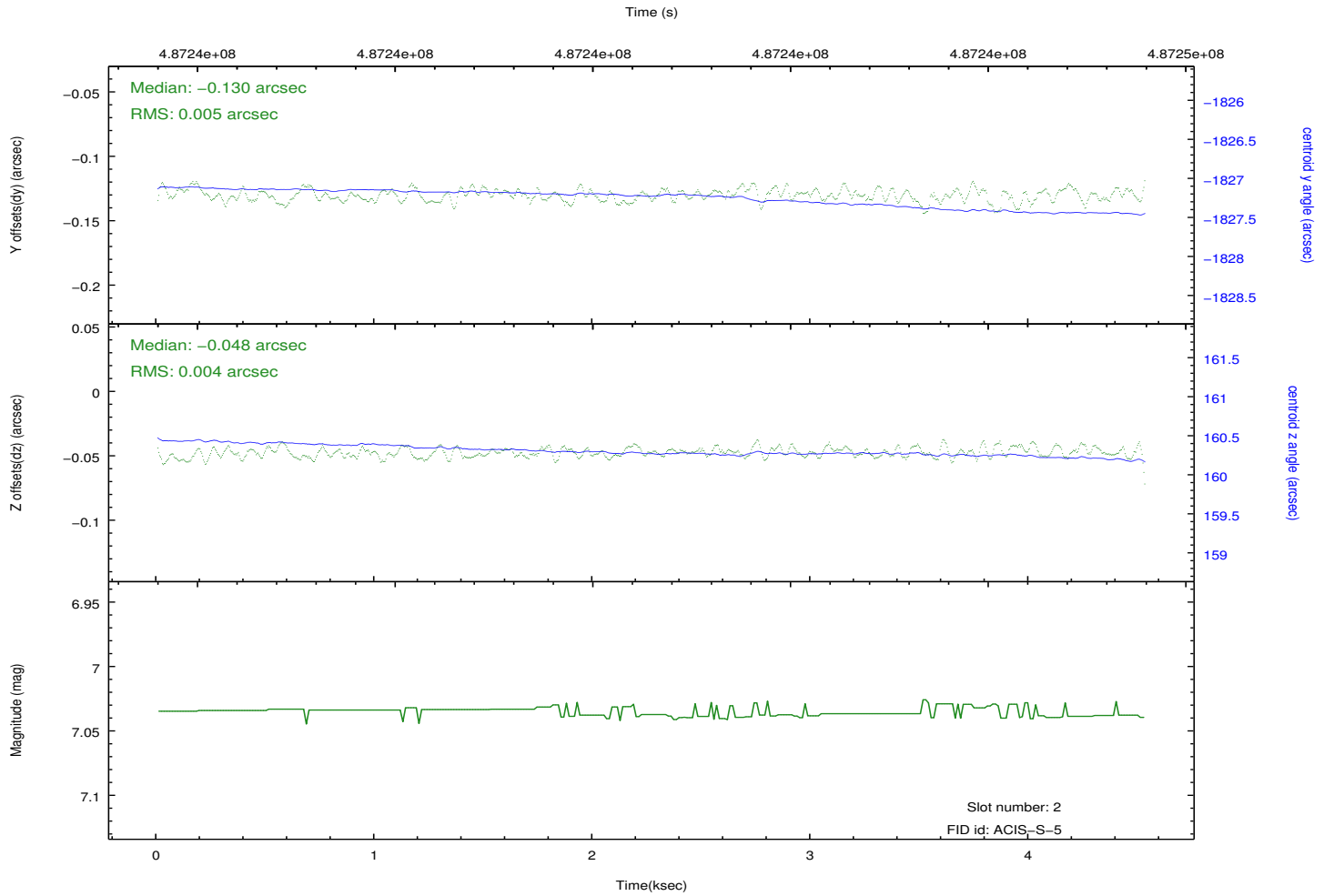
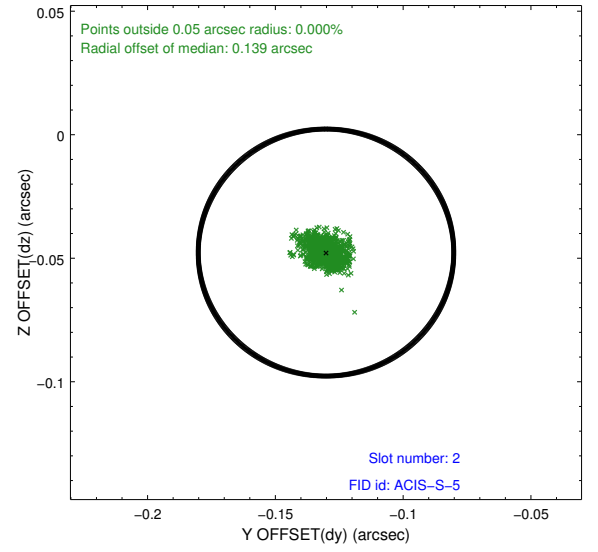
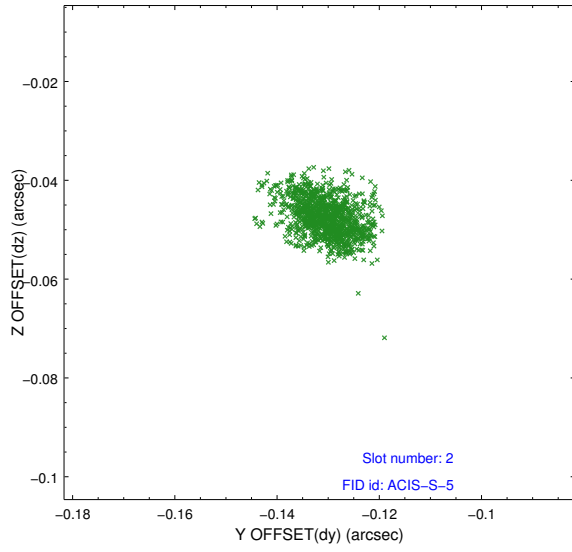
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.7665000289679

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.