

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13811 - L2 Version 2
Chandra X-Ray Center

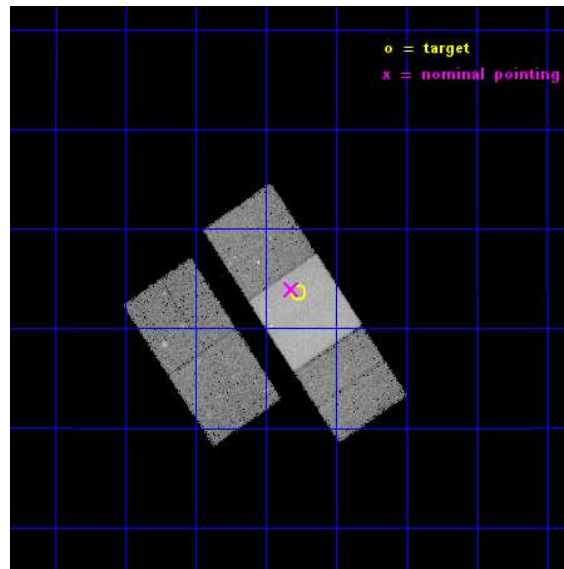
L2 Processing Date : Nov 29 2014

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1 Front

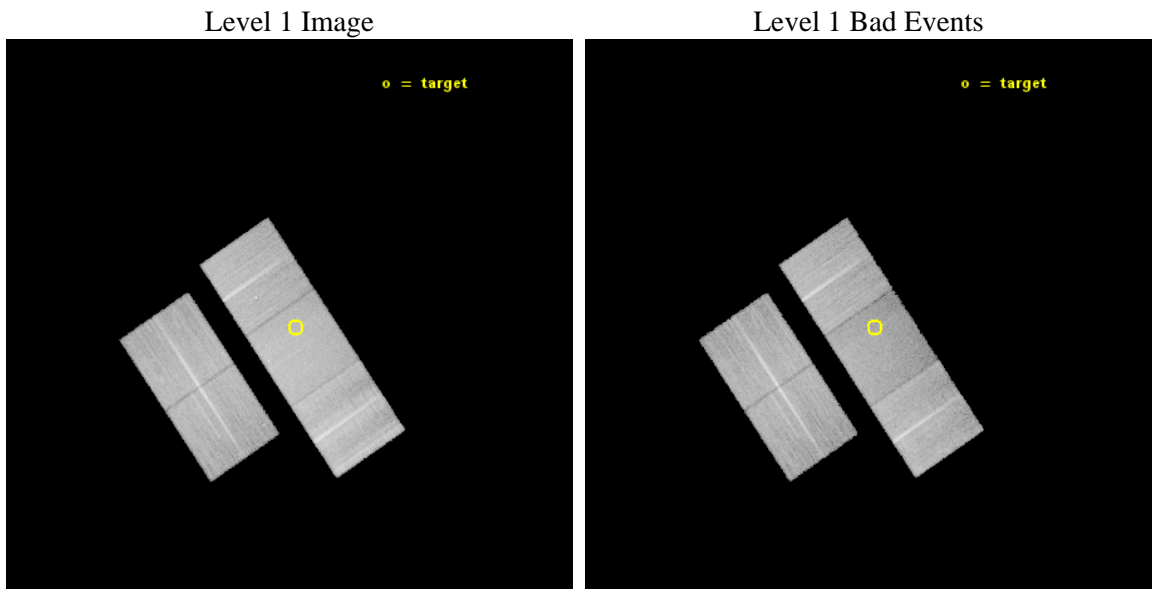
seq_num	600994	Sequence number
obs_id	13811	Observation id
title	X-raying the spectacular star-forming trail behind IC 3418	Proposa
observer	Dr. Ming Sun	Principal investigator
object	IC 3418	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.443333	Observer's specified target RA [deg]
dec_targ	11.393472	Observer's specified target Dec [deg]
ra_nom	187.4550711169	Nominal RA [deg]
dec_nom	11.398719347049	Nominal Dec [deg]
roll_nom	56.15429530923	Nominal Roll [deg]
revision	2	Processing version of data
ontime	35067.200269699	Sum of GTIs [s]
livetime	34609.021482078	Livetime [s]
ontime2	35064.059309304	Sum of GTIs [s]
ontime3	35067.200269699	Sum of GTIs [s]
ontime6	35067.200269699	Sum of GTIs [s]
ontime7	35067.200269699	Sum of GTIs [s]
ontime8	35060.918338895	Sum of GTIs [s]
l2events	186567	Number of level 2 events



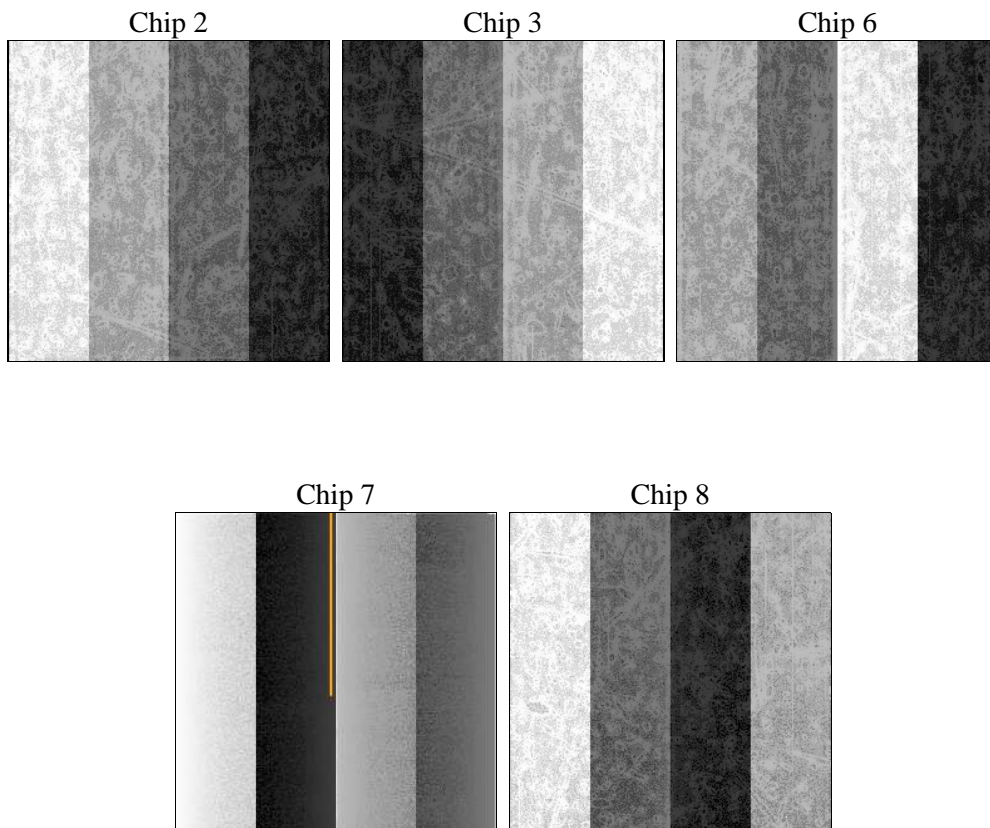
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	35067.200269699	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	35064.059309304	Sum of GTIs [s]
date	2014-11-29T11:58:50	Date and time of file creation	ontime3	35067.200269699	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	35067.200269699	Sum of GTIs [s]
			ontime7	35067.200269699	Sum of GTIs [s]
			ontime8	35060.918338895	Sum of GTIs [s]
			l1events	991818	Number of level 1 events

2.1.4 Events

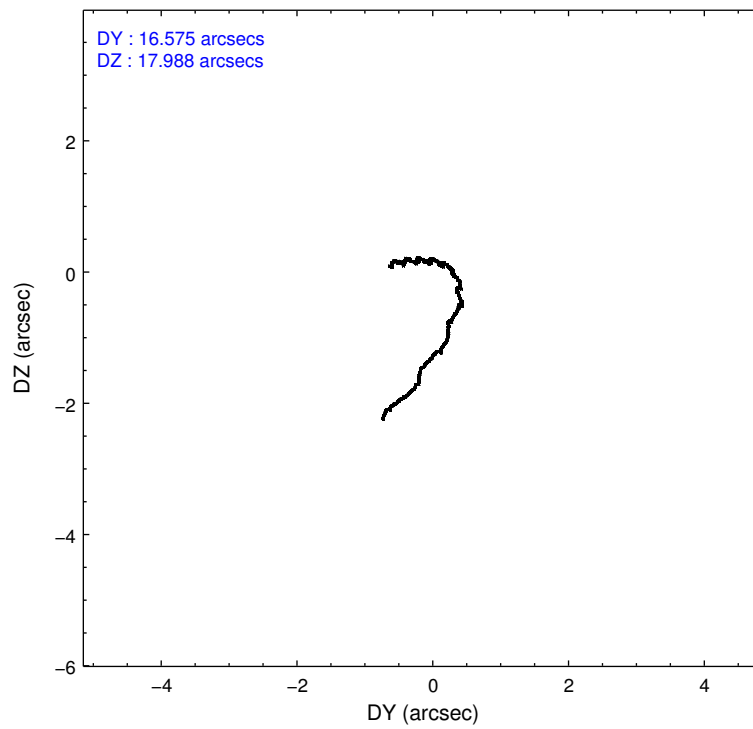
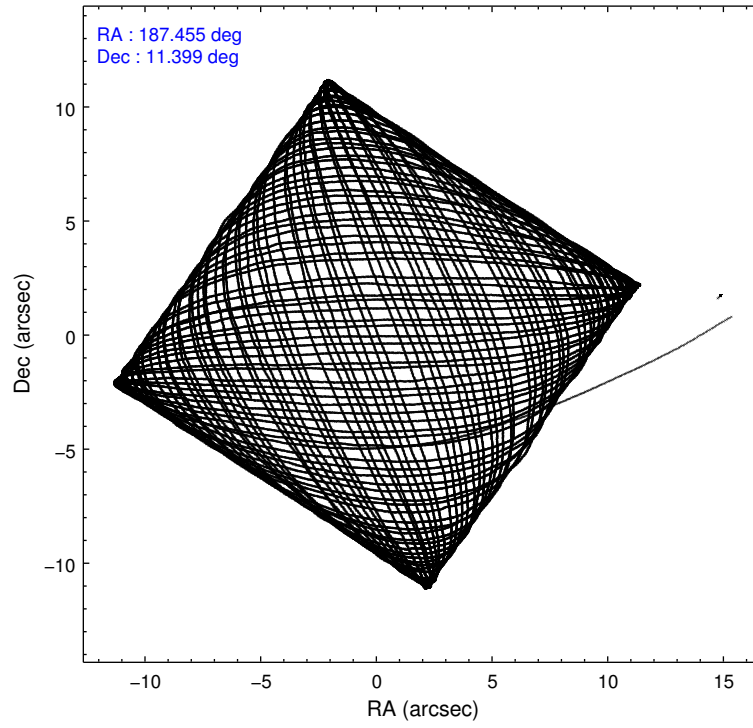
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	179242	170733	189758	211714	240371
rejected events	155669	148913	162236	108168	165728
rejected %	86%	87%	85%	51%	68%

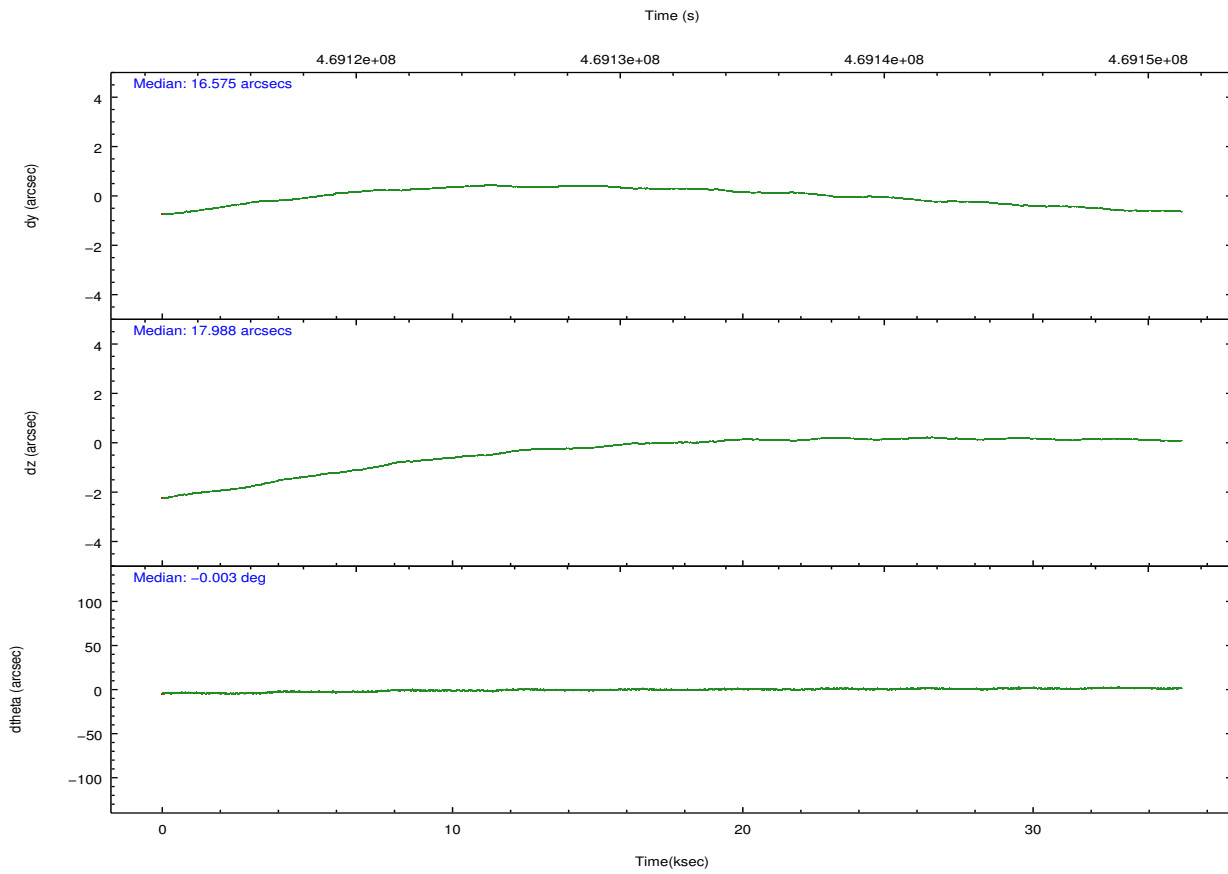
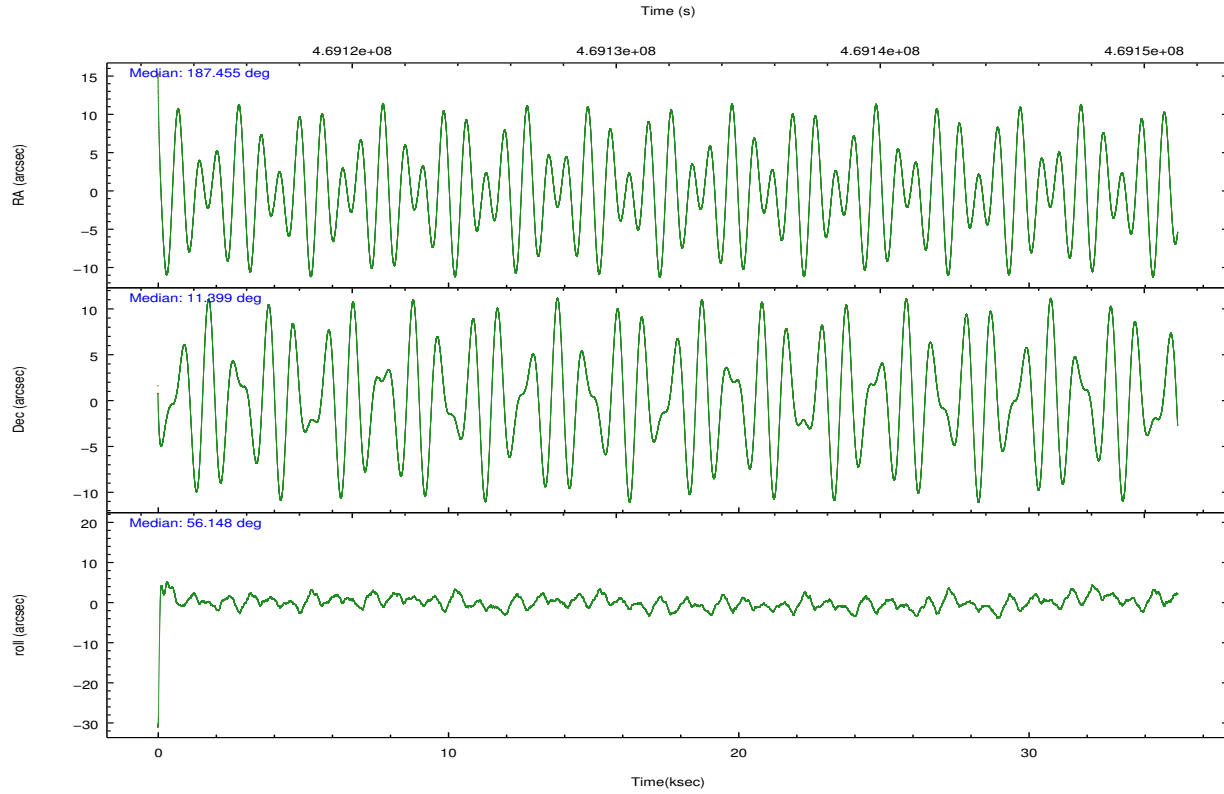
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	10410	9093	12749	11513	22560
	5%	5%	6%	5%	9%
grade 1 events	98	107	116	296	222
	0%	0%	0%	0%	0%
grade 2 events	5240	4615	5486	22341	16588
	2%	2%	2%	10%	6%
grade 3 events	2107	2161	2388	9316	8348
	1%	1%	1%	4%	3%
grade 4 events	2140	2136	2297	9230	7930
	1%	1%	1%	4%	3%
grade 5 events	6373	7979	8070	21955	11972
	3%	4%	4%	10%	4%
grade 6 events	3679	3816	4605	51158	19219
	2%	2%	2%	24%	7%
grade 7 events	149195	140826	154047	85905	153532
	83%	82%	81%	40%	63%

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	187.453582	187.4550711169009	CCD I2 on	O1	Y
[deg] Pointing Dec	11.371416	11.3987193470489	CCD I3 on	Y	Y
[deg] Pointing Roll	55.997978	56.15429530922977	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	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	Y	Y
[s] Observation start time (MET)	469114518.184000	469113222.93632	CCD S5 on	N	N
Observation start date	2012-11-12T13:34:11	2012-11-12T13:13:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	469149518.184000	469149974.31329	On-chip summing requested	N	N
Observation end date	2012-11-12T23:17:31	2012-11-12T23:26:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





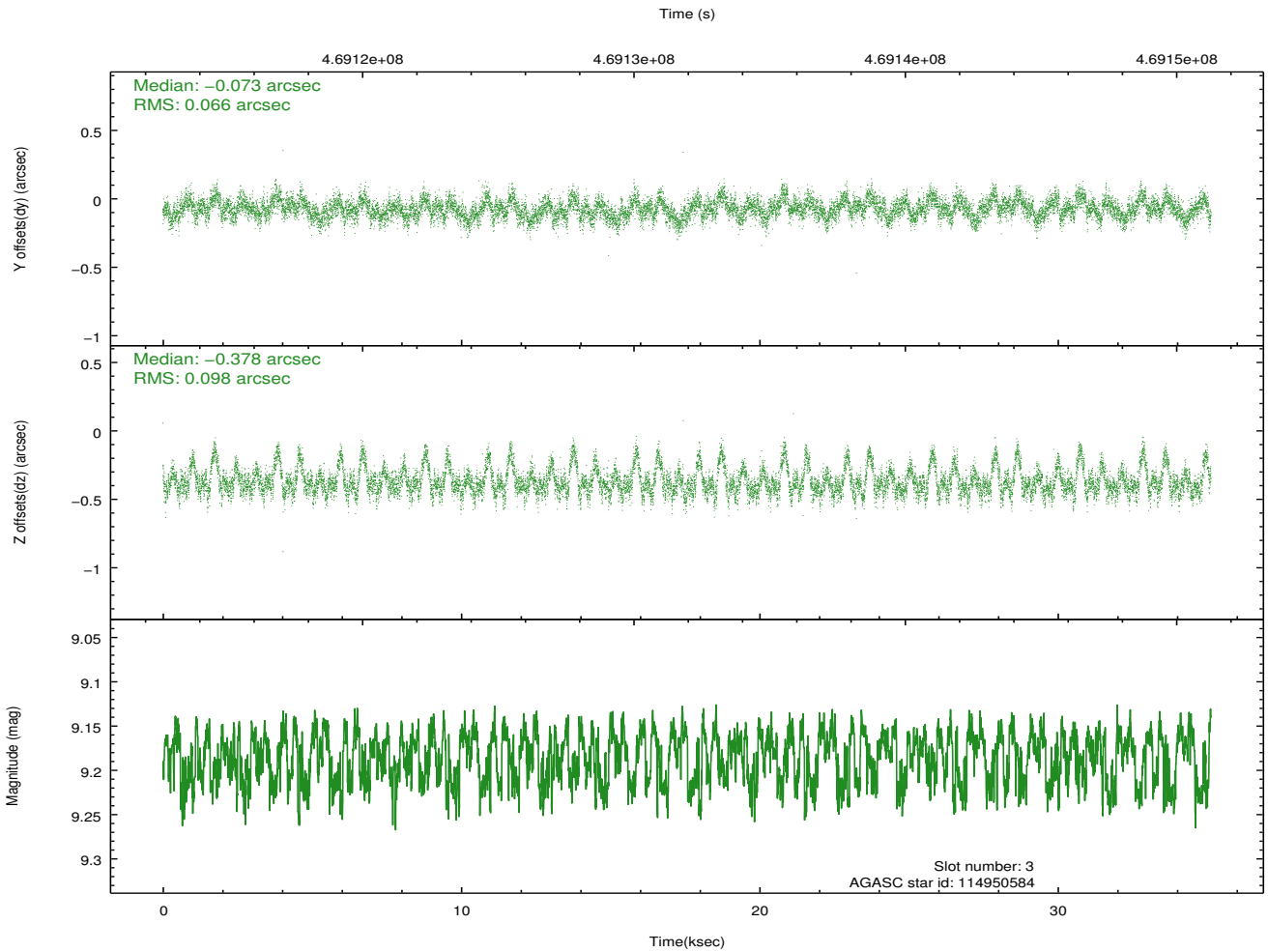
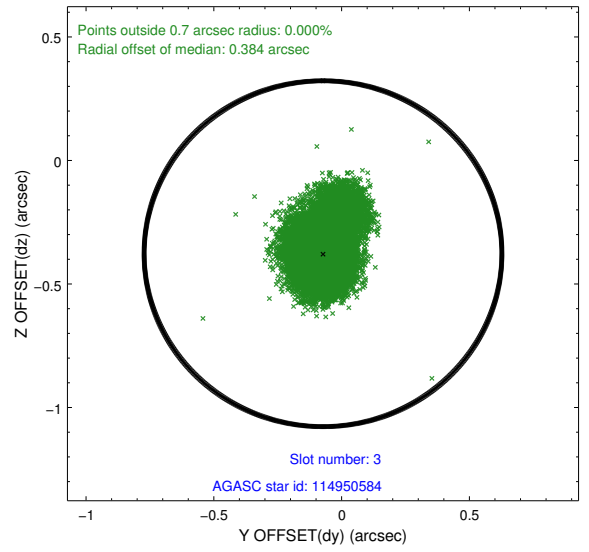
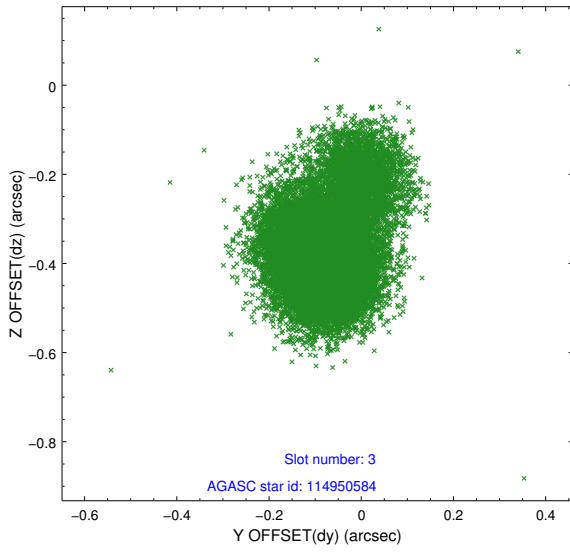
Slot Statistics

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	8569	-0.080	-0.032	0.015	0.046	0.000000	0.000000	-769.66	-1738.96
1	FID		ACIS-S-4	7.00	8569	0.187	0.047	0.009	0.020	0.000000	0.000000	2143.90	169.51
2	FID		ACIS-S-5	7.04	8569	-0.137	-0.006	0.013	0.041	0.000000	0.000000	-1822.48	163.22
3	GUIDE	used	114950584	9.18	17107	-0.073	-0.378	0.119	0.222	187.487323	11.827248	1426.59	819.42
4	GUIDE	used	114955672	9.16	17131	0.148	-0.116	0.120	0.193	186.876368	11.136298	-1840.05	1218.12
5	GUIDE	used	114955752	9.00	17098	0.309	0.131	0.084	0.139	186.882211	11.026969	-2155.14	982.03
6	GUIDE	used	114957272	8.86	17124	0.156	0.237	0.089	0.141	187.367706	11.138889	-863.61	-215.69
7	GUIDE	used	114955568	7.50	17135	-0.539	0.110	0.074	0.118	187.061916	11.826551	586.62	2061.43

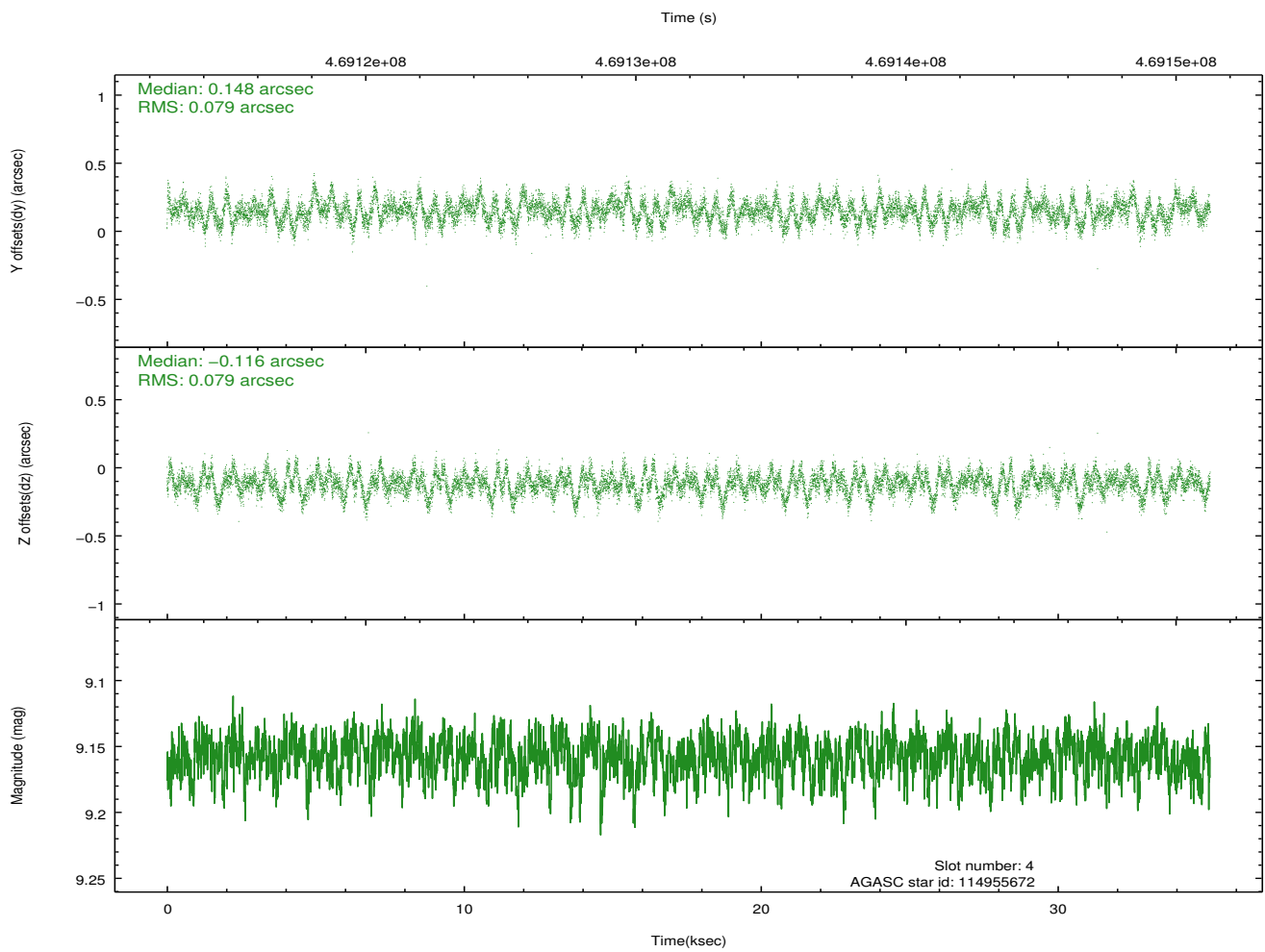
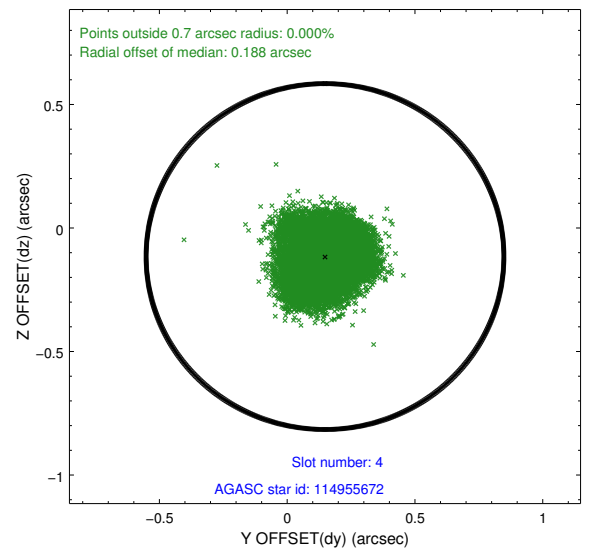
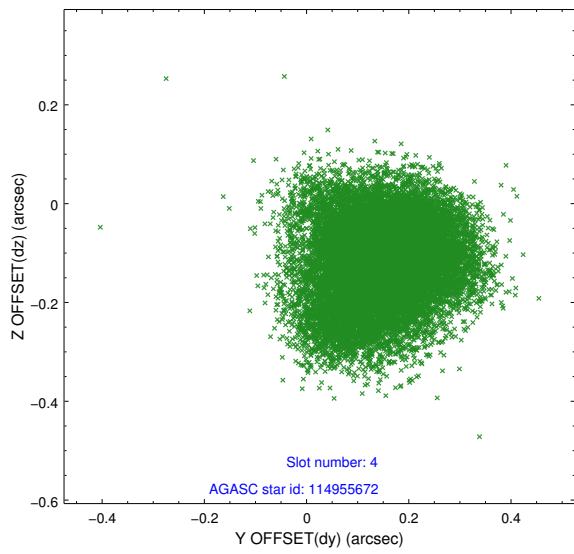
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2.4 Star Slots

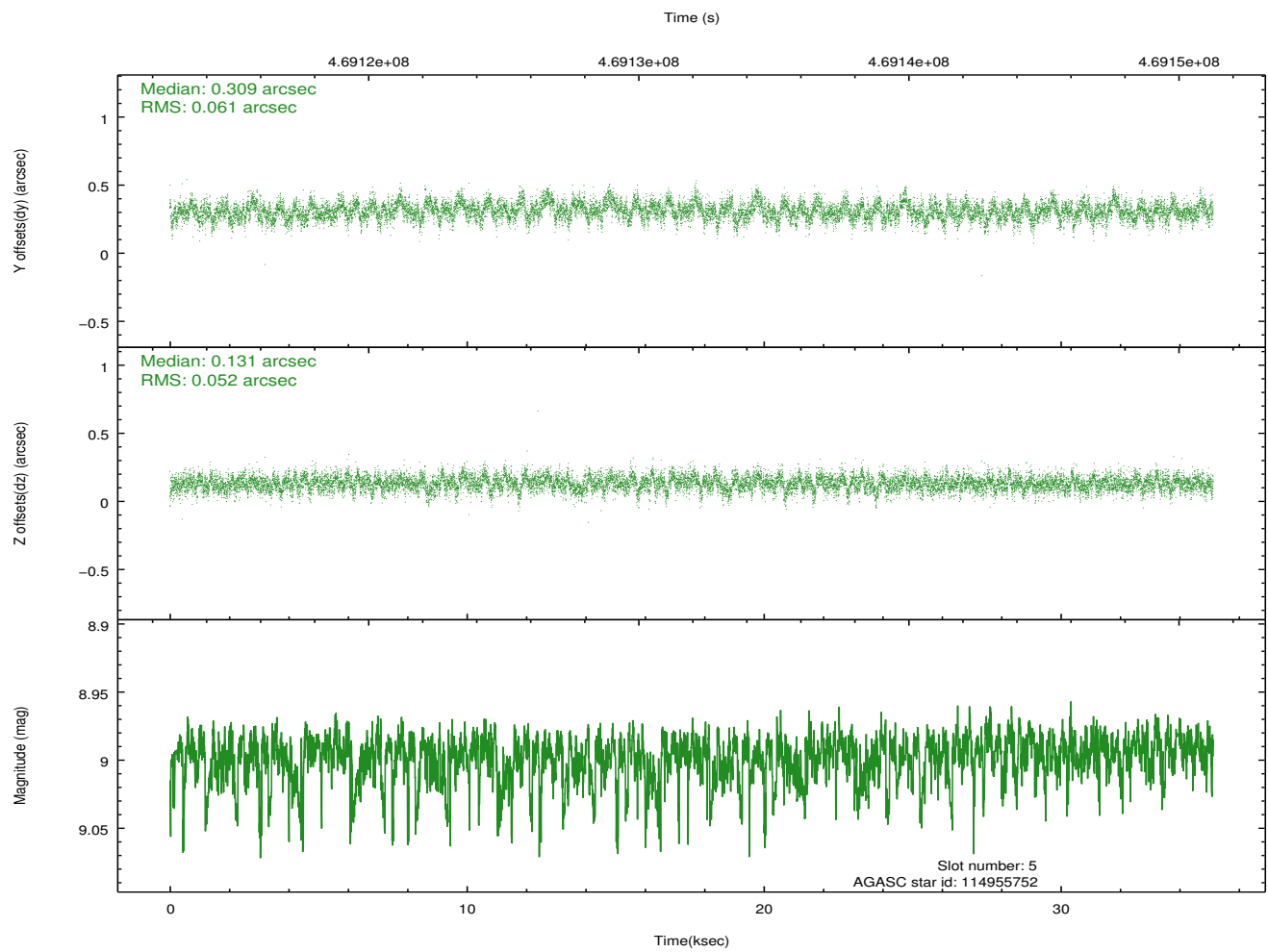
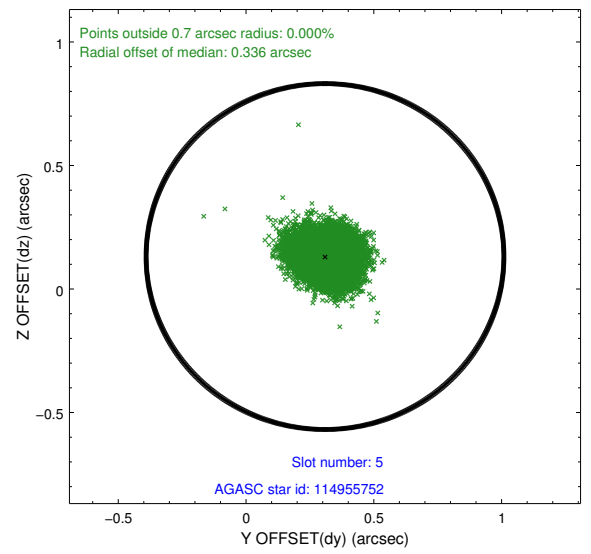
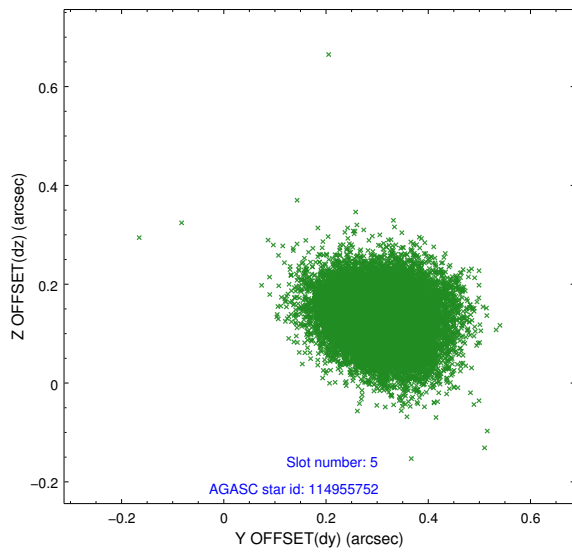
2.4.1 Slot 3



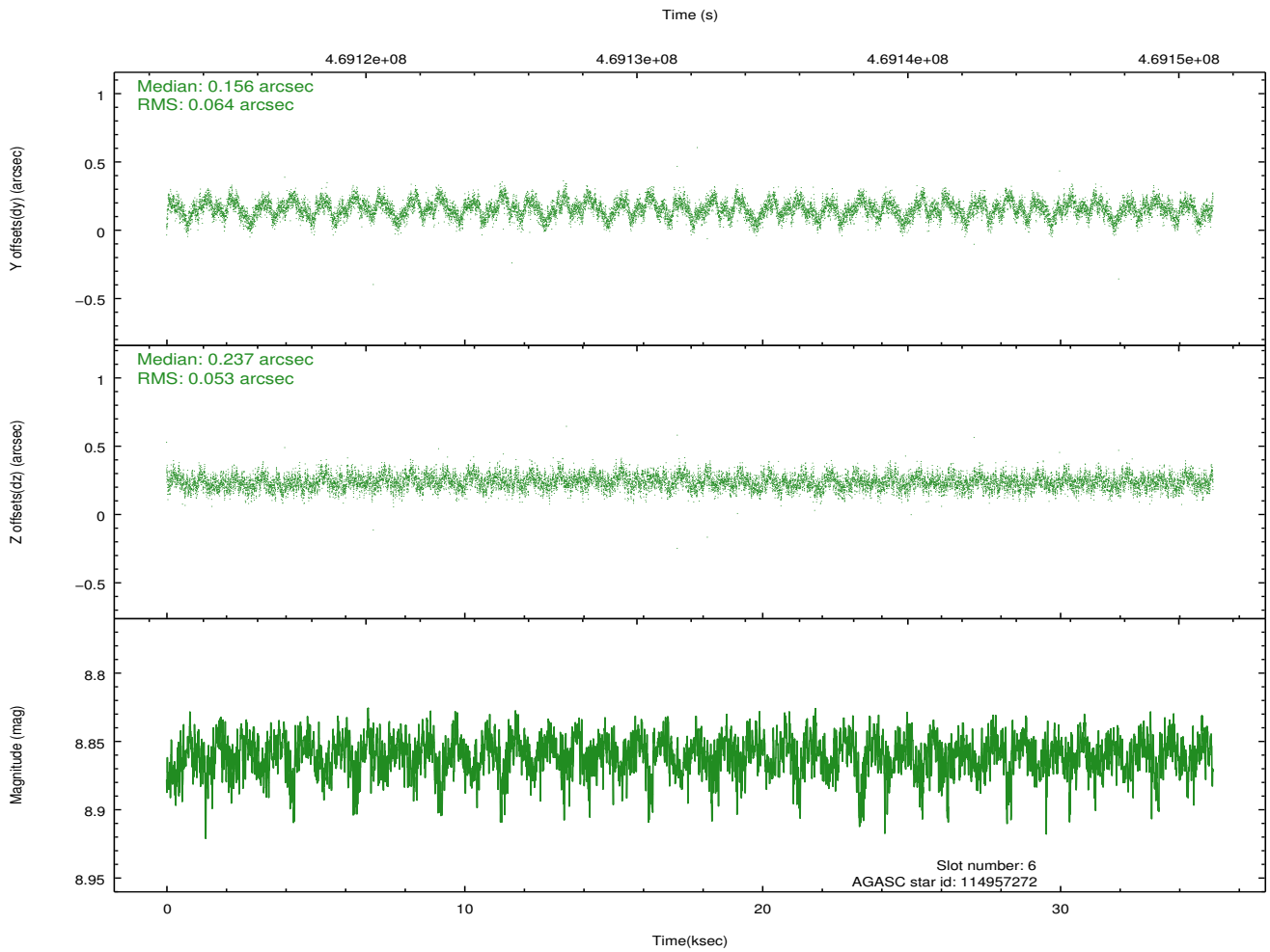
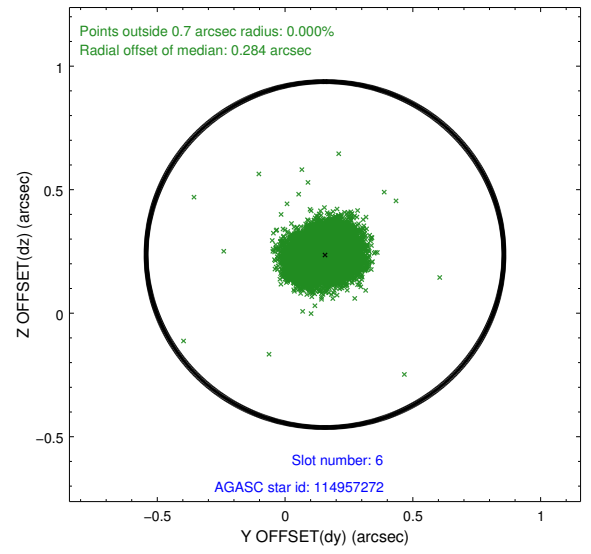
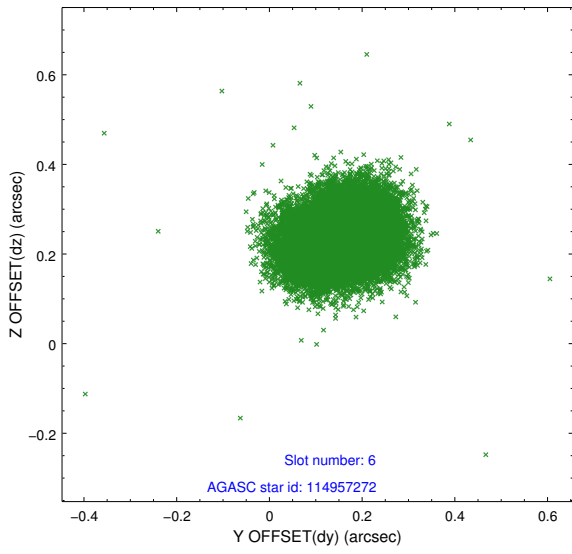
2.4.2 Slot 4



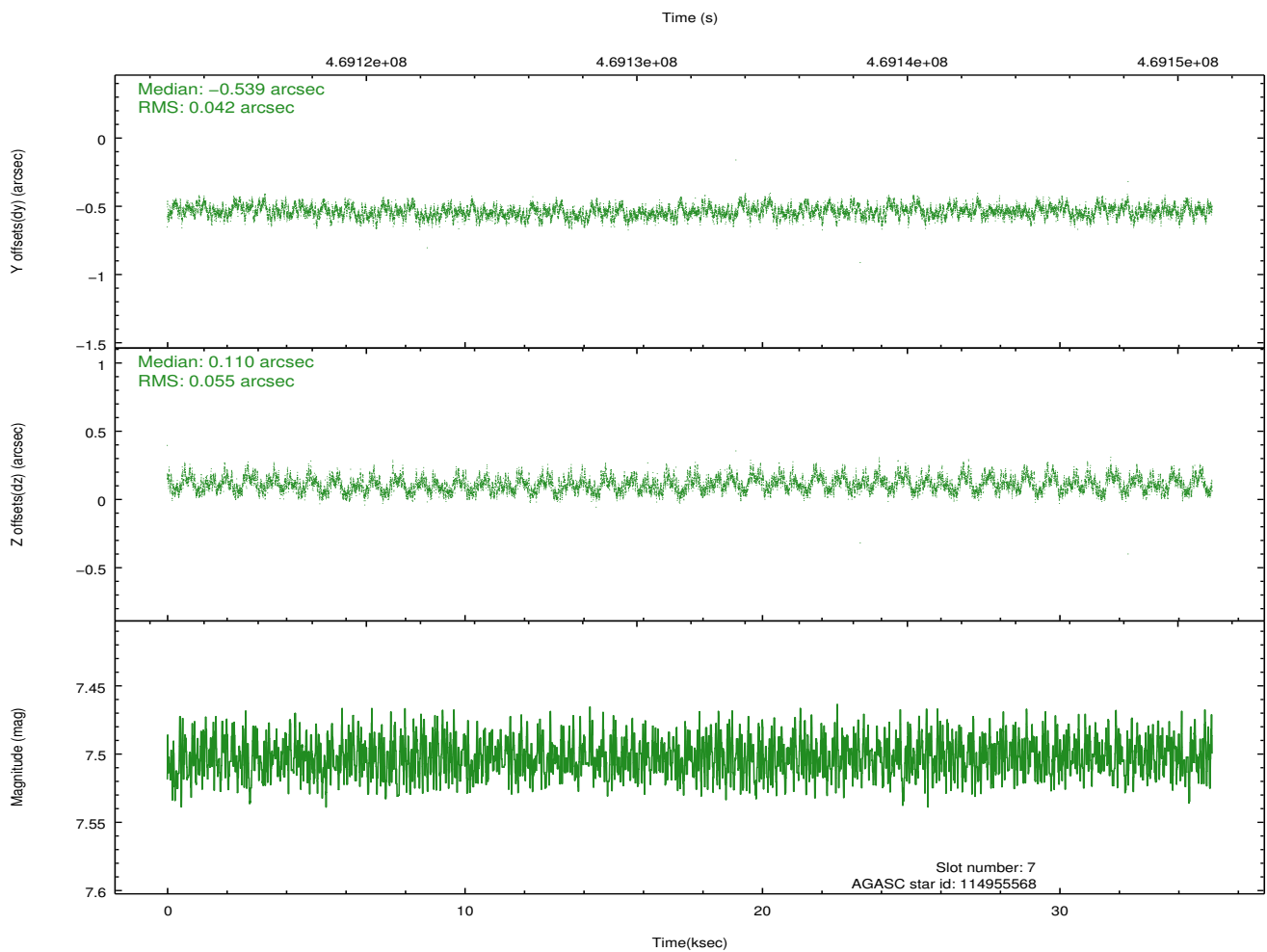
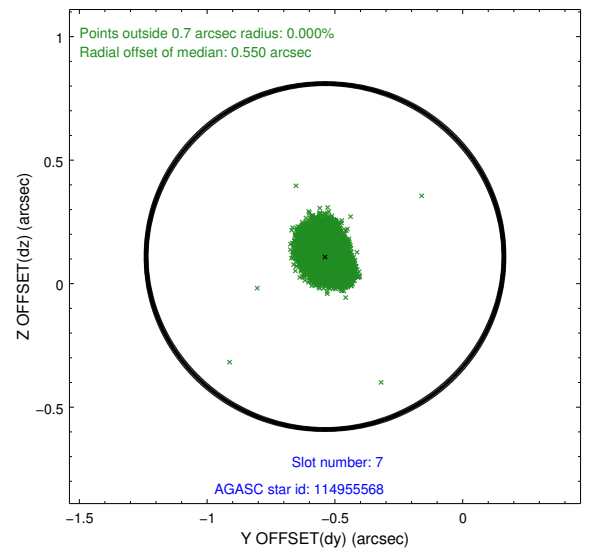
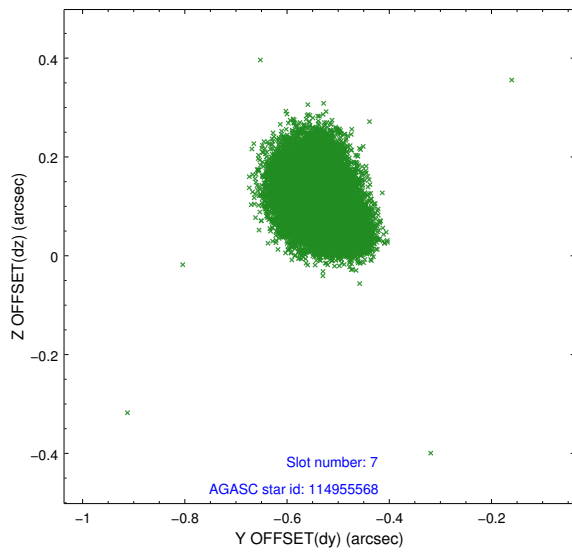
2.4.3 Slot 5



2.4.4 Slot 6

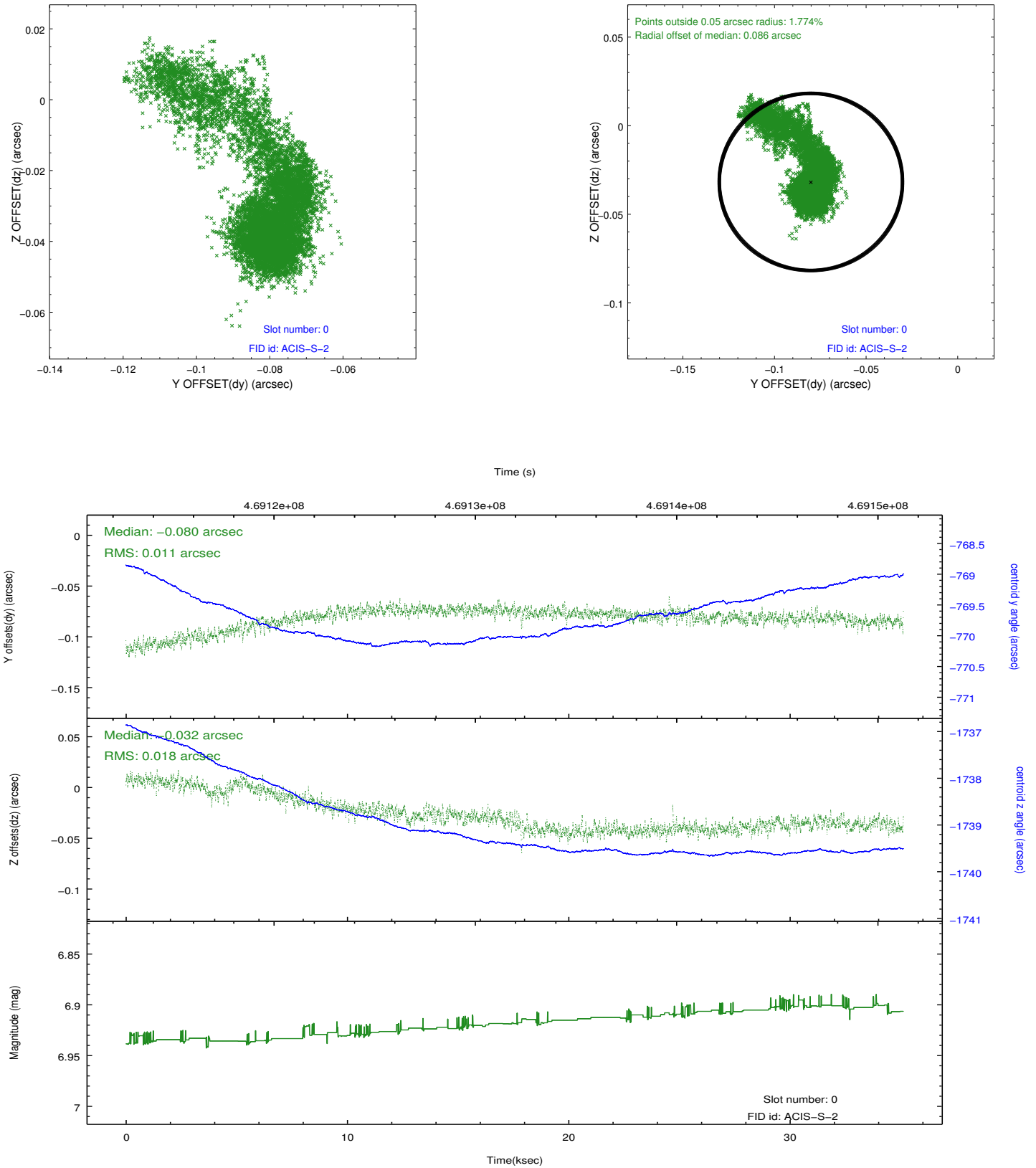


2.4.5 Slot 7

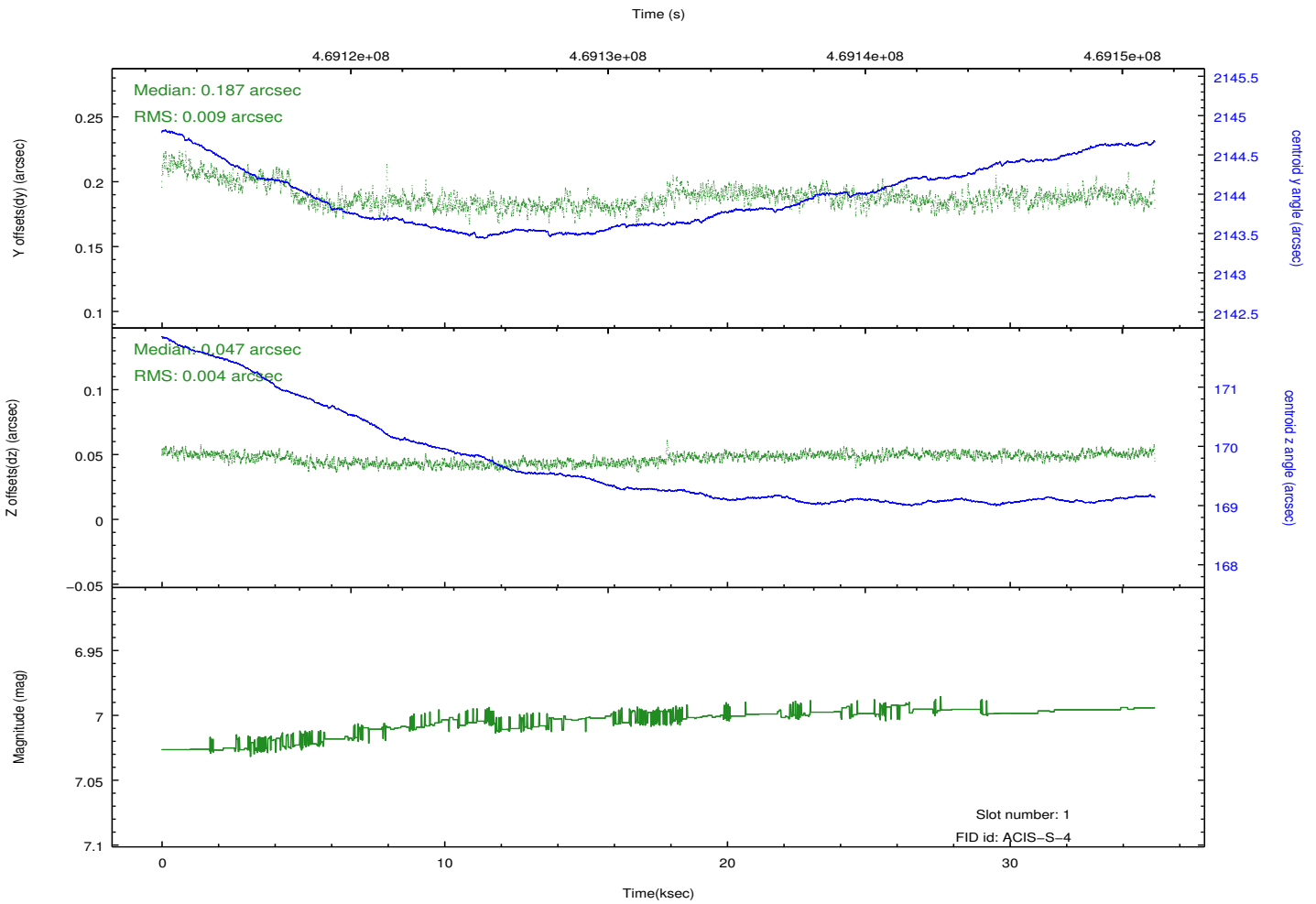
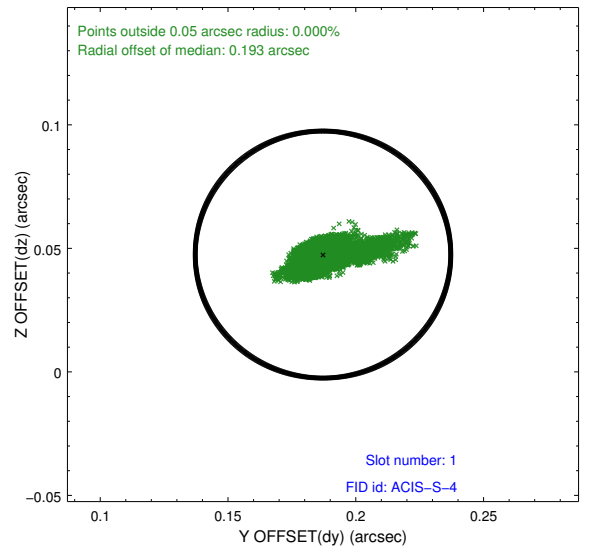
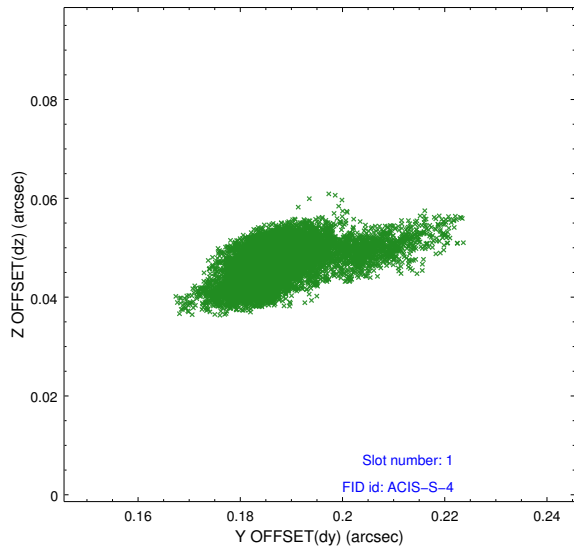


2.5 FID Slots

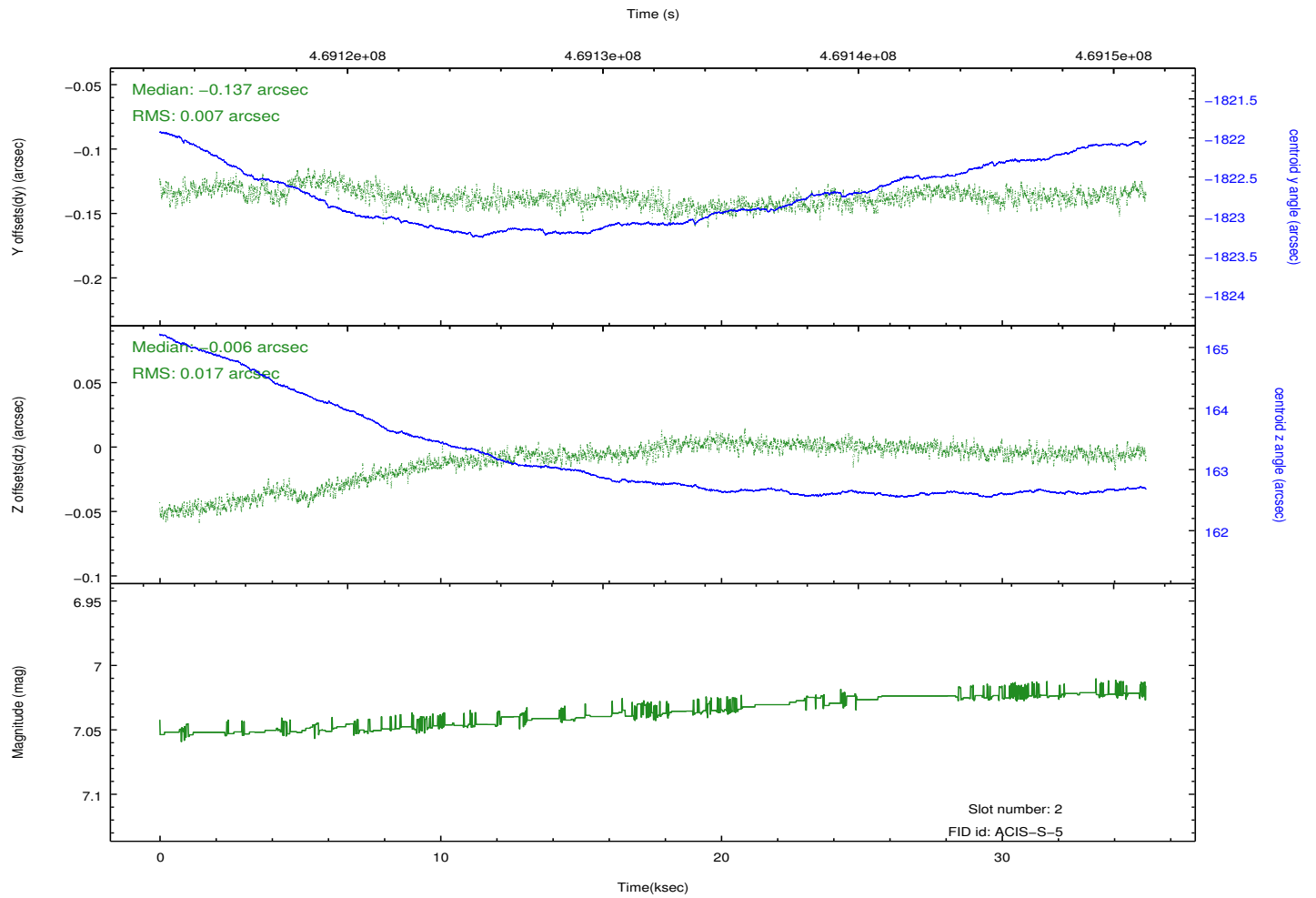
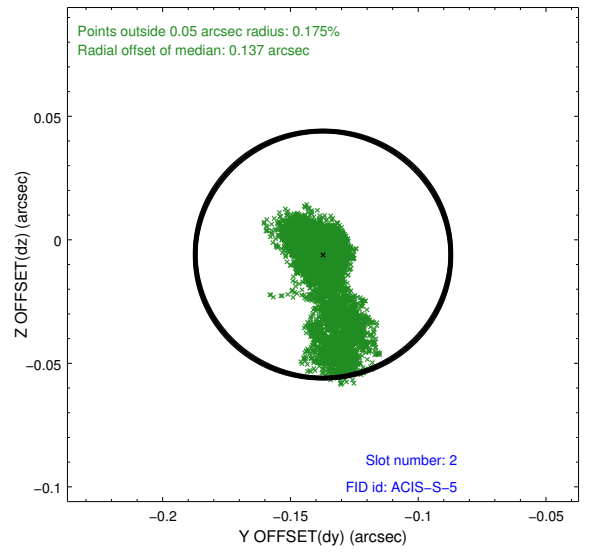
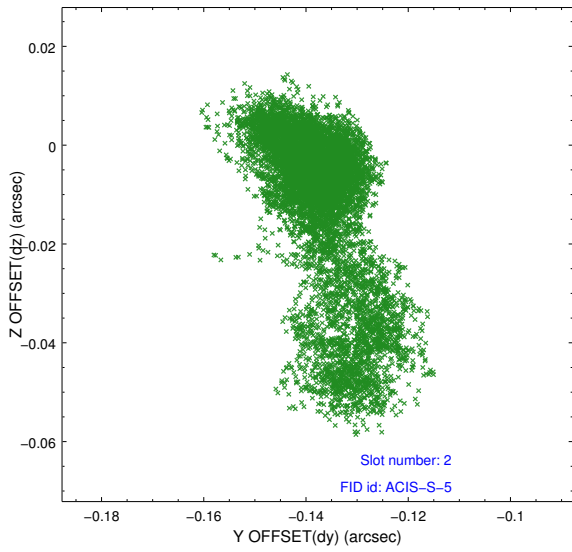
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.067200269699

A.2 Comments

Joint proposal with HST and NRAO.

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.